

WEATHER REPORTING  
MESSAGES MÉTÉOROLOGIQUES  
МЕТЕОРОЛОГИЧЕСКИЕ СООБЩЕНИЯ  
INFORMES METEOROLOGICOS

## VOLUME/TOM/VOLUMEN D

INFORMATION FOR SHIPPING  
RENSEIGNEMENTS POUR LA NAVIGATION MARITIME  
CATALOGUE DES BULLETINS MÉTÉOROLOGIQUES  
МЕТЕОРОЛОГИЧЕСКИЕ СООБЩЕНИЯ ИНФОРМАЦИЯ ДЛЯ СУДОХОДСТВА  
INFORMACIÓN PARA LA NAVEGACIÓN MARÍTIMA

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World Meteorological Organization  
Organisation météorologique mondiale  
Всемирная Метеорологическая Организация  
Organización Meteorológica Mundial

WMO/OMM/BMO No. 9

Weather • Climate • Water



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## General Information

This Volume includes marine meteorological and other related geophysical information necessary for safe and economic conduct of shipping operations, as well as for fishing and other marine activities.

To ensure complete area coverage and adequacy of services, the Oceans and Seas have been divided into METAREAS. This Chapter provides charts indicating the limits of METAREAS together with the area co-ordinates followed by the transmission schedule for the full GMDSS service.

The GMDSS of the International Maritime Organization (IMO) entered into force on 1 February 1992. The high seas marine broadcast system for the GMDSS, which operates through the International SafetyNET Service of INMARSAT, was also implemented from this date.

The GMDSS provides for urgency and safety communications and the promulgation of maritime safety information (navigational and meteorological warnings and forecasts and other urgent safety information).

For some ocean areas, the full GMDSS service is not yet implemented because of technical reasons related to access to the appropriate CES. For these areas, an interim urgent meteorological warning information service has been put in place.

For the purpose of the preparation and issue of meteorological warnings and the regular preparation and issue of weather and sea bulletins, the oceans and seas are divided into areas for which National Meteorological Services assume responsibility. The areas of responsibility together provide complete coverage of oceans and seas by meteorological information contained in warnings and weather and sea bulletins for the high seas. The areas of responsibility as defined in the world map represents a minimum requirement for issuing and preparation services.

Preparation Service: Is a National Meteorological Service which has accepted responsibility for the preparation of forecasts and warnings for parts of, or an entire, designated area (METAREA) in the WMO system for the dissemination of meteorological forecasts and warnings to shipping under the GMDSS and for their transfer to the relevant issuing service for broadcast.

### Notification of Changes

In seeking to maintain a high standard of accuracy in the material published in *Volume D*, the WMO Secretariat depends entirely on the goodwill of the meteorological services throughout the world. Their co-operation in keeping the Secretariat fully informed of all changes is a decisive factor in attaining this aim.

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# **CHAPTER 1**

## **WORLDWIDE MET-OCEAN INFORMATION AND WARNING SERVICE (WWMIWS)**



# **ANNEX I**

## **INDEX OF STATIONS BY COUNTRY**





# Annex I - Index of Stations by Country

	MODE OF TRANSMISSION			METAREA
<b>ALGERIA</b>				
Ain Taya Radio		NAV		III
Alger Radio	DSC			III
Annaba Radio	DSC			III
Bejaia Radio	DSC			III
Ghazouet Radio	DSC			III
Oran Radio	DSC			III
Skikda Radio	DSC			III
Tenes Radio	DSC			III
<b>ANGOLA</b>				
Luanda	DSC			VII
<b>ARGENTINA</b>				
Bahía Blanca (PREFECTURA NAVAL)	DSC	NAV		VI
Buenos Aires (PREFECTURA NAVAL)	DSC	NAV	HFnbdp	VI
Centro Meteorológico Base Marambio			HFnbdp	VI
Comodoro Rivadavia (PREFECTURA NAVAL)	DSC	NAV	HFnbdp	VI
Delta (PREFECTURA NAVAL)	DSC			VI
Mar del Plata (PREFECTURA NAVAL)	DSC	NAV		VI
Puerto Madryn (PREFECTURA NAVAL)	DSC			VI
Quequén (PREFECTURA NAVAL)	DSC			VI
Rawson (PREFECTURA NAVAL)	DSC			VI
Recalada Río de la Plata (PREFECTURA NAVAL)	DSC			VI
Río Gallegos (PREFECTURA NAVAL)	DSC	NAV		VI
San Antonio Oeste (PREFECTURA NAVAL)	DSC			VI
Ushuaia (PREFECTURA NAVAL)	DSC	NAV		VI
<b>ASCENSION ISLAND</b>				
RAF VOLMET	DSC			VII
<b>AUSTRALIA</b>				
Charleville (Queensland)	DSC		FAX	X
Wiluna (Western Australia)	DSC		FAX	X
<b>AZERBAIJAN</b>				
Baku (Chilov)		NAV		III
<b>BAHRAIN</b>				
Hamala		NAV		IX
<b>BANGLADESH</b>				
Chittagong	DSC			VIII(N)
<b>BARBADOS</b>				
Barbados Coast Guard (MRSC)	DSC			IV
<b>BELGIUM</b>				
Antwerpen Radio	DSC			I
Oostende		NAV		I
Oostende (Thames Approaches broadcast for United Kingdom)		NAV		I
Oostende Radio	DSC			I

DSC = VHF/MF/HF DSC

NAV = NAVTEX

FAX = RADIO-FACSIMILE

HFnbdp = HF NBDP

**BENIN**

Cotonou

**MODE OF TRANSMISSION METAREA**

DSC				II
-----	--	--	--	----

**BERMUDA**

Bermuda Harbour

DSC	NAV			IV
-----	-----	--	--	----

**BRAZIL**

Belém

DSC				V
-----	--	--	--	---

Brazilian MMS

	NAV			V
--	-----	--	--	---

Junção

DSC				V
-----	--	--	--	---

Olinda

DSC				V
-----	--	--	--	---

Ponta do Céu

DSC				V
-----	--	--	--	---

Río

DSC				V
-----	--	--	--	---

Rio de Janeiro Naval

DSC		FAX	HFnbdp	V
-----	--	-----	--------	---

**BULGARIA**

Varna Radio

DSC	NAV		HFnbdp	III
-----	-----	--	--------	-----

**CABO VERDE**

Sao Vicente Radio

	NAV			II
--	-----	--	--	----

**CANADA**

Amphitrite Point (controlled by Prince Rupert MCTS)

	NAV			XII
--	-----	--	--	-----

Cartwright (controlled by Labrador MCTS)

	NAV			IV
--	-----	--	--	----

Chebogue (controlled by Halifax MCTS)

	NAV			IV
--	-----	--	--	----

Digby Island (controlled by Prince Rupert MCTS)

	NAV			XII
--	-----	--	--	-----

Ferndale (controlled by Prescott MCTS)

	NAV			IV
--	-----	--	--	----

Halifax, Nova Scotia (MCTS)

DSC		FAX		IV
-----	--	-----	--	----

Iqaluit, Nunavut (MCTS)

DSC	NAV	FAX	HFnbdp	XVII, XVIII
-----	-----	-----	--------	-------------

Labrador, (Goose Bay), Newfoundland and Labrador (MCTS)

DSC				IV
-----	--	--	--	----

Les Escoumins, Québec (MCTS)

DSC				IV
-----	--	--	--	----

Moisie (controlled by Les Escoumins MCTS)

	NAV			IV
--	-----	--	--	----

Pass Lake (controlled by Sarnia MCTS)

	NAV			IV
--	-----	--	--	----

Placentia, Newfoundland and Labrador (MCTS)

DSC				IV
-----	--	--	--	----

Port aux Basques, Newfoundland and Labrador (MCTS)

DSC				IV
-----	--	--	--	----

Port Caledonia (controlled by Sydney MCTS)

	NAV			IV
--	-----	--	--	----

Prescott, Ontario (MCTS)

DSC				IV
-----	--	--	--	----

Prince Rupert, British Columbia (MCTS)

DSC				XII
-----	--	--	--	-----

Québec, Québec (MCTS)

DSC				IV
-----	--	--	--	----

Robin Hood Bay (controlled by Placentia MCTS)

	NAV			IV
--	-----	--	--	----

Sarnia, Ontario (MCTS)

DSC				IV
-----	--	--	--	----

Sydney, Nova Scotia (MCTS)

DSC		FAX		IV
-----	--	-----	--	----

Victoria, British Columbia (MCTS)

DSC				XII
-----	--	--	--	-----

DSC = VHF/MF/HF DSC

NAV = NAVTEX

FAX = RADIO-FACSIMILE

HFnbdp = HF NBPD

**CHILE**

Antofagasta Zonal  
 Arica Radio  
 Bahía Félix Radio  
 Bahía Fildes  
 Cabo Carranza, Faro  
 Cabo Raper, Faro  
 Caldera  
 Castro  
 Centro Meteorológico Presidente Eduardo Frei Montalva  
 Chañaral  
 Consitutción  
 Coquimbo  
 Diégo Ramirez  
 Huasco  
 Iquique  
 Isla de Pascua (Easter Island)  
 Isla de Pascua Zonal Radio (Easter Island)  
 Isla Guafo, Faro  
 Isla Mocha, Faro  
 Isla Quiriquina, Faro  
 Isla San Pedro  
 Islote Fairway, Faro  
 Islotes Evangelistas, Faro  
 Juan Fernández  
 Magallanes  
 Magallanes Zonal Radio  
 Puerto Aysén  
 Puerto Montt  
 Puerto Montt Zonal Radio  
 Punta Arenas Magallanes  
 Punta Corona, Faro  
 Punta Delgada  
 Punta Dungenes, Faro  
 San Antonio  
 Talcahuano Zonal Radio  
 Valparaiso Playa Ancha (Radio Centro de Telecomunicaciones Maritimas)  
 Wollaston

DSC	NAV			XV
DSC				XV
DSC				XV
DSC				XV
DSC				XV
DSC				XV
DSC				XV
DSC				XV
			HFnbdp	XV
DSC				XV
DSC				XV
DSC				XV
DSC				XV
DSC				XV
	NAV			XV
DSC				XV
DSC				XV
DSC				XV
DSC				XV
DSC				XV
DSC				XV
DSC				XV
	NAV			XV
DSC				XV
DSC				XV
DSC				XV
	NAV			XV
		FAX		XV
DSC				XV
DSC				XV
DSC				XV
DSC				XV
DSC				XV
DSC	NAV			XV
DSC	NAV	FAX	HFnbdp	XV
DSC				XV

	MODE OF TRANSMISSION			METAREA
<b>CHINA</b>				
Dalian		NAV		XI
Fuzhou		NAV		XI
Guangzhou	DSC	NAV	HFnbdp	XI
Sanya		NAV		XI
Shanghai	DSC	NAV	HFnbdp	XI
Tianjin	DSC	NAV	HFnbdp	XI
Zhanjiang		NAV		XI
<b>COLOMBIA</b>				
Buenaventura		NAV		XII
Santa Marta		NAV		XII
<b>COMOROS</b>				
Moroni	DSC			VII
<b>CONGO</b>				
Pointe Noire	DSC			II
<b>COOK ISLANDS</b>				
Rarotonga	DSC			X
<b>COSTA RICA</b>				
Radio Bahía, Puntarenas	DSC			XII
Radio Casino, Limón	DSC			IV
Radio Pampa, Guanacaste	DSC			XII
<b>COTE D'IVOIRE</b>				
Abidjan Radio	DSC			II
<b>CROATIA</b>				
Dubrovnik	DSC			III
Rijeka	DSC			III
Split (Hvar I.)	DSC			III
Split (Hvar Is)		NAV		III
<b>CUBA</b>				
Cienfuegos	DSC			IV
Habana	DSC			IV
Santiago de Cuba	DSC			IV
<b>CURAÇAO AND BONAIRE (NETHERLANDS ANTILLES)</b>				
Curaçao		NAV		IV
Curaçao Radio (JRCC)	DSC			IV
<b>CYPRUS</b>				
Cyprus	DSC			III
Cyprus Radio		NAV		III
<b>DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA</b>				
Hamhung		NAV		XI
Pyongyang		NAV		XI

DSC = VHF/MF/HF DSC

NAV = NAVTEX

FAX = RADIO-FACSIMILE

HFnbdp = HF NBDP

**DENMARK AND FAROE ISLANDS**

Lyngby  
 Skamlebaek (KØBENHAVN)  
 Tórshavn Radio (Faeroes)  
 Utvarp Føroya (Radio Faeroe)

MODE OF TRANSMISSION				METAREA
DSC				I
		FAX		I
DSC	NAV			I
				I

**DJIBOUTI**

Djibouti

DSC				IX
-----	--	--	--	----

**DOMINICAN REPUBLIC**

Santo Domingo Piloto

DSC				IV
-----	--	--	--	----

**ECUADOR**

Ayora  
 Guayaquil, Radio IOA (Instituto Oceanografico Armada) o Radio Naval

	NAV			XII
DSC				XII

**EGYPT**

El Iskandariya (Alexandria)  
 El Quseir (Kosseir)  
 Serapeum (Ismailia)

	NAV			III
	NAV			IX
	NAV		HFndbp	IX

**ESTONIA**

Tallinn

DSC	NAV			I
-----	-----	--	--	---

**FIJI**

Suva

DSC				XIV
-----	--	--	--	-----

**FINLAND**

Turku (MRCC)

DSC				I
-----	--	--	--	---

**FRANCE**

Corsen (CROSS)  
 Corsen (CROSS) (MRCC)  
 Étel (CROSS) (MRCC)  
 Gris-Nez (CROSS) (MRCC)  
 Jobourg (CROSS) (MRCC)  
 La Garde (CROSS)  
 La Garde (CROSS) (MRCC)  
 Ouessant

	NAV			II
DSC				II
DSC				II
DSC				I
DSC				I
	NAV			III
DSC				III
	NAV			III

**FRENCH POLYNESIA**

Mahina (Tahiti)

DSC				XIV
-----	--	--	--	-----

**GEORGIA**

Poti

	NAV			III
--	-----	--	--	-----

**GERMANY**

Bremen Radio (MRCC)  
 Offenbach (Main)-Hamburg/Pinneberg (broadcast for shipping)  
 Pinneberg

DSC				I
		FAX		I
	NAV			I

**GHANA**

Tema Radio

DSC				II
-----	--	--	--	----

DSC = VHF/MF/HF DSC

NAV = NAVTEX

FAX = RADIO-FACSIMILE

HFndbp = HF NBDP

**GREECE**

- Irakleio (Kriti)
- Kerkyra
- Limnos
- Olympia
- Olympia Radio
- Rodos

DSC	NAV			III
DSC	NAV			III
DSC	NAV			III
		FAX		III
			HFnbdp	III
DSC				III

**GREENLAND (KALAALLIT NUNAAT)**

- Aasiaat
- Kook Island (Nuuk)
- Simiutaq
- Upernavik

DSC				I
	NAV			XVIII
	NAV			XVIII
	NAV			XVIII

**GUADELOUPE, ST. MARTIN, ST. BARTHELEMY**

- ADRASEC (Guadeloupe)
- Guadeloupe (CROSSAG)

DSC				IV
DSC				IV

**GUAM**

- Guam (USCG)

DSC	NAV		HFnbdp	XI
-----	-----	--	--------	----

**HONG KONG, CHINA**

- Hong Kong

DSC	NAV			XI
-----	-----	--	--	----

**ICELAND**

- Hornafjörður
- Isafjörður
- Nes Radio (Neskaupstadur)
- Reykjavík
- Reykjavik Radio / Grindavik
- Reykjavik Radio / Saudanes
- Siglufjörður
- Vestmannaeyjar

DSC				I
DSC				I
DSC				I
DSC				I
	NAV			I
	NAV			I
DSC				I
DSC				I

**INDIA**

- Balasore
- Chennai (Madras)
- Keating Point (Andaman and Nicobar Islands)
- Kochi (Cochin)
- Mumbai (Bombay)
- Muttam Point
- Porto Novo
- Tuticorin
- Vakalpudi
- Vengurla Point
- Veraval
- Vishakhapatnam (COMCEN)

	NAV			VIII(N)
DSC				VIII(N)
	NAV			VIII(N)
DSC				VIII(N)
DSC				VIII(N)
	NAV			VIII(N)
	NAV			VIII(N)
DSC				VIII(N)
	NAV			VIII(N)
	NAV			VIII(N)
DSC				VIII(N)

DSC = VHF/MF/HF DSC

NAV = NAVTEX

FAX = RADIO-FACSIMILE

HFnbdp = HF NBDP

**INDONESIA**

- Amboina
- Jakarta
- Jayapura
- Ujungpandang (Makassar)

	NAV			XI
DSC	NAV		HFnbdp	XI
	NAV			XI
	NAV			XI

**IRAN, ISLAMIC REPUBLIC OF**

- Abbas
- Bandar Abbas (MRCC)
- Bandar Imam Khomeyni (MRCC)
- Bushehr (MRCC)
- Chahbahar (MRCC)
- Fereydoonkenar Radio

			HFnbdp	IX
DSC	NAV			IX
DSC				IX
DSC	NAV			IX
DSC				IX
	NAV			IX

**IRELAND**

- Dublin (MRCC)
- Malin Head (MRSC)
- Malin Head (North West Approaches broadcast for United Kingdom)
- Valentia
- Valentia (MRSC)

DSC				I
DSC	NAV			I
	NAV			I
DSC				I
	NAV			I

**ISRAEL**

- Hefa (Haifa)

DSC	NAV			III
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**ITALY**

- Ancona
- Augusta Campolato Alto
- Bari (IPB)
- Cagliari
- Civitavecchia
- Crotone
- Genova
- La Maddalena
- Lampedusa
- Livorno
- Mazara del Vallo
- Messina
- Mondolfo
- Napoli
- Palermo
- Piombino
- Porto Torres
- Roma (IAR)
- San Benedetto del Tronto
- Sellia Marina
- Trieste (IQX)

DSC				III
DSC				III
DSC				III
DSC				III
DSC				III
DSC				III
DSC				III
	NAV			III
DSC				III
DSC				III
DSC				III
	NAV			III
DSC				III
DSC				III
DSC				III
	NAV			III
DSC				III

**JAMAICA**

Jamaica Defence Force (CG)

**MODE OF TRANSMISSION METAREA**

DSC				IV
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**JAPAN**

Hiroshima (JCG MRCC)

Kagoshima

Kagoshima (JCG MRCC)

Kobe (JCG MRCC)

Kushiro

Moji

Moji (JCG MRCC)

Nagoya (JCG MRCC)

Naha

Naha (JCG MRCC)

Niigata (JCG MRCC)

Otaru

Yokohama

Yokohama (JCG MRCC)

DSC				XI
		FAX		XI
DSC				XI
DSC				XI
	NAV			XI
	NAV			XI
DSC				XI
DSC				XI
	NAV			XI
DSC				XI
DSC				XI
	NAV			XI
	NAV			XI
DSC				XI

**JERSEY**

Jersey Radio

DSC				I
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**JORDAN**

'Aqaba

DSC				IX
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**KENYA**

Nairobi

		FAX		VIII(S)
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**LATVIA**

Riga Rescue Radio (MRCC)

DSC				I
-----	--	--	--	---

**LITHUANIA**

Klaipeda

DSC				I
-----	--	--	--	---

**MADAGASCAR**

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	NAV			VII
--	-----	--	--	-----

**MALAYSIA**

Miri (Sarawak)

Penang

Sandakan (Sabah)

	NAV			XI
	NAV			XI
	NAV			XI

**MALTA**

Malta Radio

Malta Radio (RCC)

	NAV			III
DSC				III

**MARTINIQUE**

ADRASEC (Martinique)

Martinique (CROSSAG)

DSC				IV
DSC				IV

**MAURITIUS**

Mauritius

Port Louis Harbour

	NAV			VIII(S)
DSC				VIII(S)

DSC = VHF/MF/HF DSC

NAV = NAVTEX

FAX = RADIO-FACSIMILE

HFnbdp = HF NBDP



**MEXICO**

Acapulco  
 Chetumal  
 Ciudad del Carmen  
 Coatzacoalcos  
 Cozumel  
 Ensenada  
 Lazaro Cardenas  
 Manzanillo  
 Mazatlán  
 Pajaritos  
 Progreso  
 Puerto Vallarta  
 Veracruz

DSC				XII
DSC				IV
DSC				IV
DSC				IV
DSC				IV
DSC				XII
DSC				XII
DSC				XII
DSC				IV
DSC				IV
DSC				XII
DSC				IV

**MONACO**

Monaco

DSC				III
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**MONTENEGRO**

Bar

DSC				III
-----	--	--	--	-----

**MOROCCO**

Agadir  
 Casablanca  
 Safi  
 Tanger

DSC				II
DSC				II
DSC				II
DSC				II

**MOZAMBIQUE**

--  
 Beira

	NAV			VII
DSC				VII

**NAMIBIA**

Walvis Bay

DSC	NAV			VII
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**NETHERLANDS**

Netherlands Coastguard Radio

DSC	NAV			I
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**NEW AMSTERDAM ISLAND (FRANCE)**

Martin de Vivies (New Amsterdam Island) OR Port-aux-Français (Kerguelen Island)

DSC				VII
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**NEW CALEDONIA**

Nouméa

DSC				X
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**NEW ZEALAND**

Taupo Maritime Radio  
 Wellington (Transmitting station: Auckland)

DSC				XIV
		FAX		XIV

**NORWAY**

Bjørnøya  
 Bodø Radio  
 Bodø Radio  
 Florø Radio  
 Høpen Meteo Radio  
 Jan Mayen  
 Jeloya  
 Ørlandet  
 Rogaland Radio  
 Svalbard (Isfjord)  
 Svalbard Radio  
 Tjøme Radio  
 Vardø Radio  
 Vardø Radio

DSC				I
	NAV			XIX
DSC				I
DSC				I
DSC				I
DSC				I
	NAV			I
	NAV			I
DSC	NAV			I
	NAV			XIX
DSC				I
DSC				I
DSC				I
	NAV			XIX

**OMAN**

Wattayah

	NAV			IX
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**PAKISTAN**

Karachi  
 Karachi NAVAL

DSC	NAV			IX
DSC				IX

**PAPUA NEW GUINEA**

Port Moresby

DSC				X
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**PERU**

Callao  
 Mollendo  
 Mollendo (Matarani)  
 Paita

	NAV		HFnbdp	XVI
			HFnbdp	XVI
	NAV			XVI
	NAV		HFnbdp	XVI

**PHILIPPINES**

Manila

DSC	NAV			XI
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**POLAND**

Slupsk  
 Witowo Radio  
 Zatoka Gdansk - Vessel Traffic Services

DSC				I
DSC				I
DSC				I

**PORTUGAL**

Cencomar (Penalva)  
 Cte. Nunes Ribeiro (Radionaval)  
 Faro (Radionaval)  
 Leixões (Radionaval)

	NAV			II
DSC				II
DSC				II
DSC				II

**PORTUGAL (AZORES)**

Cencomaracores (S.Miguel)  
 Delgada (MRCC)  
 Horta (Radionaval)

	NAV			II
DSC				II
DSC				II

**PORTUGAL (MADEIRA)**

Cencomarmadeira (Porto Santo)  
 Porto Santo (Radionaval)

	NAV			II
DSC				II

DSC = VHF/MF/HF DSC    NAV = NAVTEX    FAX = RADIO-FACSIMILE    HFnbdp = HF NBDP

**QATAR**

Ad Dawhah (Doha)

**REPUBLIC OF KOREA**

Cheju (Jeju)

Chukpyon (Jukbyeon)

Inch'on (Incheon)

Kangnung (Gangneung)

Kunsan (Gunsan)

Pyonsan (Byeonsan)

Seoul (Meteorological Radio Transmission Station)

**RÉUNION**

Réunion (MRCC)

**ROMANIA**

Constanta (Constantza) Radio

**RUSSIAN FEDERATION (EUROPE)**

Arkhangel'sk

Astrakhan (Caspian Sea)

Kaliningrad

Murmansk

Murmansk

Novorossiysk

Tiksi

Tiksi

**RUSSIAN FEDERATION (IN ASIA)**

Beringovskiy

Beringovskiy (Station broadcasts only during navigation season (15 May-1 December))

Dikson

Kholmsk

Magadan

Okhotsk

Petropavlovsk-Kamchatskiy

Pevek

Vladivostok

Yuzhno-Sakhalinsk

**SAUDI ARABIA**

Jeddah

**SENEGAL**

Dakar

**SEYCHELLES**

Mahé

Seychelles

**SINGAPORE**

Singapore (Changi)

**MODE OF TRANSMISSION****METAREA**

DSC				IX
DSC				XI
	NAV			XI
DSC				XI
DSC				XI
DSC				XI
	NAV			XI
		FAX		XI
DSC				VIII(S)
DSC	NAV			III
DSC	NAV		HFnbdp	XX
	NAV			III
DSC			HFnbdp	I
		FAX	HFnbdp	I
	NAV			XX
	NAV			III
DSC				XIII
	NAV			XX
			HFnbdp	XIII
DSC				XIII
			HFnbdp	XX
	NAV			XIII
DSC	NAV			XIII
DSC	NAV			XIII
	NAV		HFnbdp	XIII
		FAX		XXI
DSC	NAV		HFnbdp	XIII
DSC				XIII
DSC	NAV			IX
	NAV			II
	NAV			VIII(S)
DSC				VIII(S)
	NAV			XI

DSC = VHF/MF/HF DSC

NAV = NAVTEX

FAX = RADIO-FACSIMILE

HFnbdp = HF NBPD

**SOUTH AFRICA**

- Cape Naval
- Cape Naval (NAVCOMCEN Cape)
- Cape Town
- Cape Town Radio
- Durban Radio
- Port Elizabeth Radio

			HFnbdp	VII
		FAX		VII
DSC				VII
	NAV			VII
	NAV			VII
	NAV			VII

**SPAIN**

- Algeciras (MRSC)
- Almería (MRCC)
- Barcelona (MRCC)
- Bilbao (CCR)
- Bilbao (MRCC)
- Cádiz (MRSC)
- Cartagena (MRSC)
- Castellón (MRSC)
- Coruña
- Coruña (CCR)
- Coruña (MRSC)
- Finisterre (MRCC)
- Gijón (MRCC)
- Huelva (MRSC)
- Málaga (CCR)
- Palma (MRCC)
- Santander (MRSC)
- Tarifa
- Tarifa (MRCC)
- Tarragona (MRSC)
- Valencia (Cabo de la Nao)
- Valencia (CCR)
- Vigo (MRSC)

DSC				II
DSC				III
DSC				III
DSC				II
DSC				II
DSC				II
DSC				III
DSC				III
	NAV			II
DSC				II
DSC				II
DSC				II
DSC				II
DSC				III
DSC				III
DSC				III
DSC				II
	NAV			II, III
DSC				II, III
DSC				III
	NAV			III
DSC				III
DSC				II

**SPAIN (CANARY ISLANDS)**

- Las Palmas
- Las Palmas (CCR GROUP V)
- Tenerife (CCR)
- Tenerife (MRCC)

	NAV			II
DSC				II
DSC				II
DSC				II

**SRI LANKA**

- Colombo

DSC				VIII(N)
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**SURINAME**

- Paramaribo

DSC				V
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**SWEDEN**

Bjuröklubb  
 Gislövshammar  
 Grimeton  
 MSI Sweden/Stockholm Radio

**SYRIAN ARAB REPUBLIC**

Al Ladhiqiyah (Latakia)  
 Tartus (Tartous)

**THAILAND**

Bangkok (Nonthaburi) Meteorological

**TUNISIA**

Kelibia (Temporarily allocated to Malta)  
 Tunis

**TURKEY**

Antalya  
 Istanbul  
 Izmir  
 Samsun

**UKRAINE**

Berdiansk  
 Mariupol'  
 Odesa  
 Sevastopol, Krymskoi

**UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND**

Aberdeen CGOC  
 BBC Radio 4  
 Belfast CGOC  
 Cullercoats  
 Dover CGOC  
 Falmouth CGOC  
 Holyhead CGOC  
 Humber CGOC  
 Milford Haven CGOC  
 Niton  
 Northwood  
 Portpatrick  
 RAF VOLMET  
 Shetland CGOC  
 Solent CGOC  
 Stornoway CGOC

**MODE OF TRANSMISSION      METAREA**

	NAV			I
	NAV			I
	NAV			I
DSC			HFnbdp	I

DSC	NAV			III
DSC				III

DSC	NAV	FAX		XI
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	NAV			III
DSC				III

DSC	NAV			III
DSC	NAV		HFnbdp	III
	NAV			III
DSC	NAV			III

	NAV			III
DSC			HFnbdp	III
DSC	NAV			III
DSC				III

DSC				I
DSC				I
DSC				I
	NAV			I
DSC				I
DSC				I
DSC				I
DSC				I
DSC				I
	NAV			I
		FAX		I
	NAV			I
DSC				I
DSC				I
DSC				I
DSC				I

DSC = VHF/MF/HF DSC      NAV = NAVTEX      FAX = RADIO-FACSIMILE      HFnbdp = HF NBPD

**UNITED STATES OF AMERICA**

Astoria (USCG)  
 Atlantic City (USCG)  
 Baltimore (USCG)  
 Boston, Massachusetts (USCG)  
 Buffalo (USCG)  
 Cambria  
 Cape Hatteras (USCG)  
 Charleston (USCG)  
 Chesapeake (USCG)  
 CAMSLANT (Communications Area Master Station Atlantic)  
 Chincoteague (Eastern Shore) (USCG)  
 Corpus Christi (USCG)  
 Detroit (USCG)  
 Fort Macon (USCG)  
 Grand Haven (USCG)  
 Hampton Roads (USCG)  
 Houston-Galveston (USCG)  
 Humboldt Bay (USCG)  
 Key West (USCG)  
 Long Beach (USCG)  
 Long Island Sound (USCG)  
 Mayport (USCG)  
 Miami (USCG)  
 Milwaukee (USCG)  
 Mobile  
 Mobile (USCG)  
 Moriches (USCG)  
 New Orleans, Louisiana (USCG)  
 New York (USCG)  
 North Bend (USCG)  
 Palmer Station  
 Point Reyes (USCG) CAMSPAC (Communications Area Master Station Pacific)  
 Point Reyes, San Francisco (CAMSPAC)  
 Port Angeles (USCG)  
 Portland (USCG)  
 Portsmouth (CAMSLANT)  
 Pt. Reyes, California  
 Saint Petersburg (USCG)  
 San Diego (USCG)  
 Sault Sainte Marie (USCG)  
 Seattle  
 Seattle (USCG)

MODE OF TRANSMISSION				METAREA
DSC	NAV			XII
DSC				IV
DSC				IV
DSC	NAV	FAX	HFnbdp	IV
DSC				IV
	NAV			XII
DSC				IV
DSC	NAV			IV
DSC				IV
DSC				IV
DSC				IV
DSC				IV
DSC				IV
DSC				IV
DSC				IV
DSC				IV
DSC				XII
DSC				IV
DSC				IV
DSC				IV
DSC	NAV			IV
DSC				IV
DSC				IV
DSC			HFnbdp	IV
DSC				IV
DSC	NAV	FAX		IV
DSC				IV
DSC				XII
			HFnbdp	NTARCTIC
DSC				XII
	NAV		HFnbdp	XII
DSC				XII
DSC				IV
	NAV			IV
		FAX		XII
DSC				IV
DSC				XII
DSC				IV
DSC				XII
DSC				XII

DSC = VHF/MF/HF DSC      NAV = NAVTEX      FAX = RADIO-FACSIMILE      HFnbdp = HF NBDP

Soutwest Harbour (USCG)

Woods Hole (USCG)

**UNITED STATES OF AMERICA (ALASKA)**

Isabella

Juneau (USCG)

Ketchikan (USCG)

Kodiak (East)

Kodiak (USCG)

Kodiak (West)

Kodiak, Alaska, USA

Valdez (USCG)

**UNITED STATES OF AMERICA (HAWAII)**

Honolulu

Honolulu (USCG)

**URUGUAY**

Atlántida (PREFECTURA)

Carmelo (PREFECTURA)

Colonia (PREFECTURA)

Fray Bentos (PREFECTURA)

La Paloma

Montevideo (PREFECTURA)

Nueva Palmira (PREFECTURA)

Paysandú (PREFECTURA)

Piriápolis (PREFECTURA)

Puerto Sauce (PREFECTURA)

Punta Carretas

Punta del Este (PREFECTURA)

Rio Branco (PREFECTURA)

Salto (PREFECTURA)

**UZBEKISTAN**

Tashkent

**VIET NAM**

Da Nang Radio

Hai Phong Radio

Ho Chi Minh Radio

Nha Trang Radio

Vung Tau Radio

MODE OF TRANSMISSION				METAREA
DSC				IV
DSC				IV
	NAV			XII, XVII
DSC				XII
DSC				XII
	NAV			XII, XVII
DSC				XII
	NAV			XII, XVII
		FAX		XII & XVII
DSC				XII
		FAX	HFndbp	XII
DSC	NAV			XII
DSC				V
DSC				V
DSC				V
DSC				V
DSC	NAV			V
DSC				V
DSC				V
DSC				V
DSC				V
DSC				V
DSC				V
DSC				V
DSC				V
		FAX		IX
DSC	NAV			XI
DSC	NAV			XI
DSC	NAV			XI
	NAV			XI
	NAV			XI

DSC = VHF/MF/HF DSC      NAV = NAVTEX      FAX = RADIO-FACSIMILE      HFndbp = HF NBDP





# PART A

## **SATELLITE SYSTEMS** ***(Transmission Schedule for SafetyNet Services (GMDSS))***

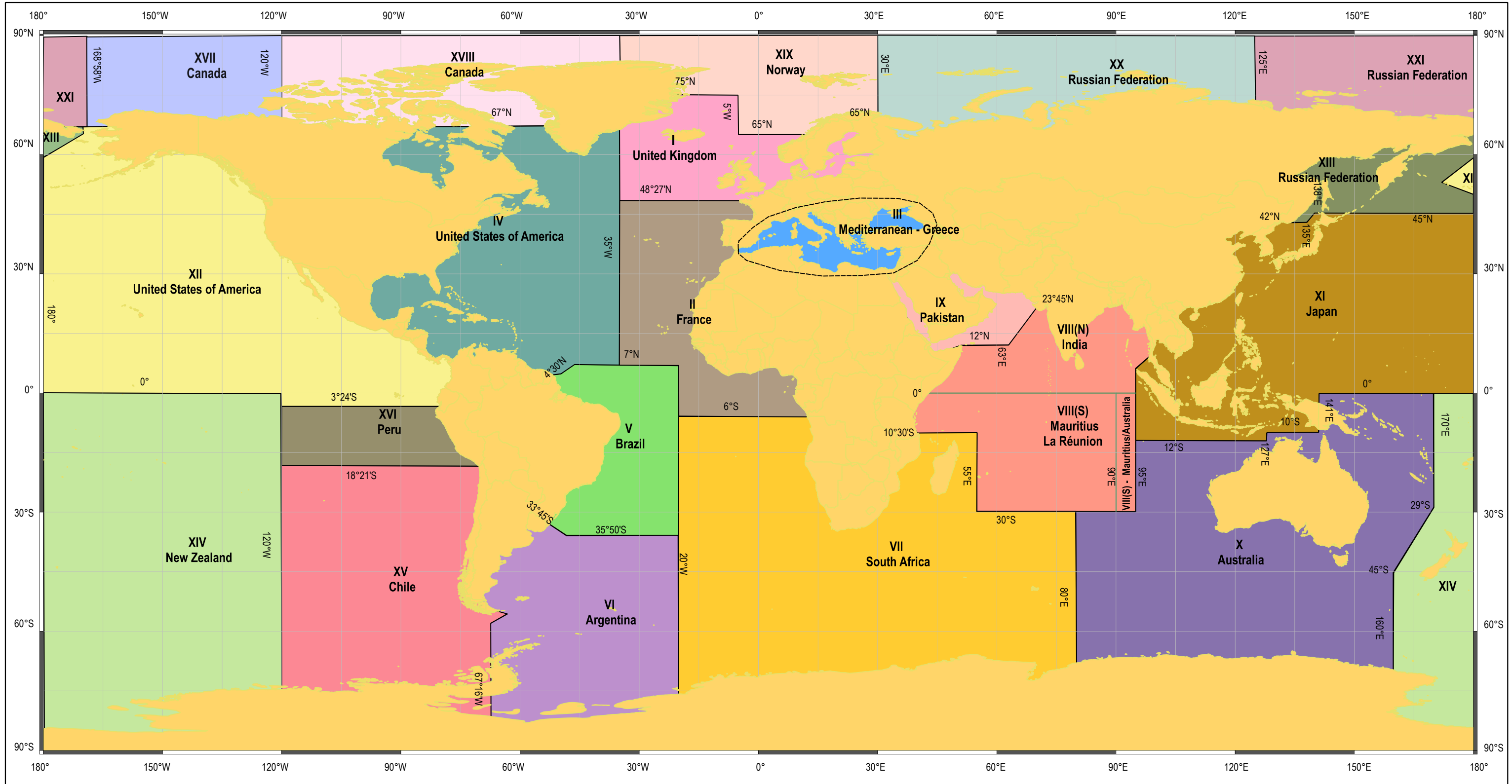
This table outlines the SafetyNet schedule for routine Met-Ocean Maritime Safety Information bulletins (forecasts and warnings). These bulletins form part of the World Meteorological Organisation's Worldwide Met-Ocean Information and Warning Service (WWMIWS).

Met-Ocean warnings may be broadcast at any time initially, with updates provided at regular intervals until they are no longer required.

The times specified are for forecasts issued for METAREA domains, otherwise a footnote is provided to indicate information about these additional services.



LIMITS OF METAREAS



DESIGNATIONS USED:

The designations employed and the presentation of material in this publication do not imply the expression of any opinion whatsoever on the part of the Secretariat of WMO concerning the legal status of any country, territory, city or area, or of its authorities, or concerning the delimitation of its frontiers or boundaries.



# Co-ordinates for GMDSS METAREAS

**Updated: 06 April 2017**

<b>METAREA</b>	<b>Coordinates</b>
<b>I</b>	The North Atlantic Ocean east of 35°W, from 48°27'N to 75°N, including the North Sea and Baltic Sea sub-area
<b>II</b>	Atlantic waters east of 35°W, from 7°N to 48°27'N, and east of 20°W from 7°N to 6°S, including the Strait of Gibraltar;
<b>III</b>	The Mediterranean and Black Seas, east of the Strait of Gibraltar;
<b>IV</b>	The western part of the North Atlantic Ocean east of the North American coast to 35°W, from 7°N to 67°N, including the Gulf of Mexico, the Caribbean Sea and the sea area between 7°N and the South American coastline eastward to the Guyana/Brazil frontier at 4°30'N and Hudson Bay* and Approaches. (*INMARSAT-C broadcasts to Hudson Bay and Approaches use rectangular area referencing so as to ensure that INMARSAT-C receivers aboard vessels navigating outside this area do not d
<b>V</b>	Atlantic waters west of 20°W from 35°50'S to 7°N, narrowing in the coastal strips at the extremities to the Uruguay/Brazil frontier at 33°45'S and the Guyana/Brazil frontier at 4°30'N
<b>VI</b>	The South Atlantic and Southern Oceans south of 35°50'S, and from 20°W to the longitude of Cape Horn, 67°16'W, including the coastal strip to the Uruguay/Brazil frontier at 33°45'S;
<b>VII</b>	The South Atlantic and Southern Oceans south of 6°S from 20°W to the coast of Africa, thence southward to the Cape of Good Hope and the South Indian Ocean and Southern Oceans south of 10°30'S from the Cape to 55°E, thence south of 30°S to 80°E;
<b>VIII(N)</b>	The area of the Indian Ocean enclosed by lines from the India/Pakistan frontier at 23°45'N 68°E to 12°N 63°E, thence to Cape Gardafui and from the east African coast southward to the Equator, thence to 95°E, to 6°N, thence north east to the Myanmar/Thailand frontier at 10°N 98°30'E;
<b>VIII(S)</b>	The east African coast from the Equator southward to 10°30'S, thence to 55°E, to 30°S, to 95°E, to the Equator and to the east African coast;
<b>IX</b>	The Red Sea, Gulf of Aden, Arabian Sea and Persian Gulf, north of Area VIII
<b>X</b>	The South Indian Ocean and Southern Oceans east of 80°E and south of 30°S, to 95°E, to 12°S, to 127°E and thence to the Timor Sea, South Pacific and Southern Oceans south of 10°S to 141°E, to the Equator, to 170°E, to 29°S, thence south-westward to 45°S at 160°E and then to the meridian at 160°E;
<b>XI</b>	The Indian Ocean, China Sea and North Pacific Ocean north of Area X and on the Equator to longitude 180°, east of Area VIII and the Asian continent, to the Democratic People's Republic of Korea/Russian Federation frontier at 42°30'N 130°E, and thence to 135°E, north east to 45°N 138°20'E, to 45°N longitude 180°;
<b>XII</b>	The eastern part of the Pacific Ocean, west of the North and South American coasts and east of 120°W, from 3°24'S to the Equator, thence to 180°, to 50°N thence north-westward to 53°N 172°E, north-eastward following the marine frontier between the United States and Russian Federation waters to 67°N;

<b>METAREA</b>	<b>Coordinates</b>
<b>XIII</b>	Sea areas enclosed north of the line starting 42°30'N 130°E, and thence to 135°E, north east to 45°N 138°20'E, to 45°N longitude 180°, then to 50°N, then north west to 53°N 172°E, and then following the international dateline to 67°N, and then west to the Russian Federation coastline .
<b>XIV</b>	The South Pacific and Southern Oceans south of the Equator, bounded by Area X to the west, Area XII to the north and Area XV to the east;
<b>XV</b>	The South Pacific and Southern Oceans south of 18°21'S following the coast of Chile to the longitude of Cape Horn at 67°16'W, and 120°W;
<b>XVI</b>	The South Pacific Ocean between 18°21'S and 3°24'S bounded by the coast of Peru and 120°W;
<b>XVII</b>	The Arctic Ocean bounded by 67°N 168°58'W to 90°N to 90°N 035°W then back to 67°N 168°58'W;
<b>XVIII</b>	The Arctic Ocean bounded by 67°N 120°W to 90°N to 67°N 035°W then back to 67°N 120°W;
<b>XIX</b>	From a position on the Norwegian coastline at 65°N to 65°N 5°W, 75°N 5°W, westward to a position on the Greenland coastline; from the border between Norway and Russia (inland) to 69°47'68"N 30°49'16"E, 69°58'48"N 31°06'24"E, 70°22'N 31°43'E, 71°N 30°E; from this coordinate (71°N 30°E) further north along the 30°E meridian to 90°N 30°E, 90°N 35°W, southward to the Greenland coastline along the 35°W meridian.
<b>XX</b>	From the border between Norway and Russia (inland) to 69°47'68"N 30°49'16"E, 69°58'48"N 31°06'24"E, 70°22'N 31°43'E, 71°N 30°E; from this coordinate (71°N 30°E) further north along the 30°E meridian to 90°N 30°E, 90°N 125°E, then south to the Russian Federation coastline along the 125°E meridian;
<b>XXI</b>	From a position on the Russian Federation coastline at the 125°E meridian northward along the 125°E meridian to 90°N then to 168°58'W, south-ward along the 168°58'W meridian to the 67°N parallel, westward along the 67°N parallel to a position on the Russian Federation coastline.

## Transmission Schedule for SafetyNet Services

**Updated: 17 April 2019**

METAREA	Issuing Country	Ocean Region Satellite	Scheduled Broadcast (UTC)
I	United Kingdom of Great Britain and Northern Ireland	AORE	0930, 2130
II	France	AORE	1015, 2215
III	Greece (1)	EMEA	1000, 2200
IV	Canada (Hudson Bay & Approaches) United States of America	AMER	0300, 1500(3)
		AMER	0430, 1030, 1630, 2230
V	Brazil	AORE	0730,1930
VI	Argentina	AORE	0230, 1730
VII	South Africa (2) (East of 20E and West of 20E)	EMEA	0940, 1940
VIII (N)	India (North of Equator)	APAC	0900, 1800
		EMEA	0900, 1800
VIII (S)	Mauritius / La Réunion (via France) (South of Equator)	EMEA	0130, 1330
		APAC	0130, 1330
IX	Pakistan	EMEA	0700
X	Australia	APAC	1100, 2300 0715, 1930 - Bass Strait (6) 0600, 1845 - Torres Strait 0630, 1915 - NT coast (5) 0830, 2030 - Northern WA coast (4)
XI	China	APAC	0330, 1015, 1530, 2215
	Japan (7)	APAC	0230, 0830, 1430, 2030 - North of Equator 0815, 2015 - South of Equator
XII	United States of America	APAC	0545, 1145, 1745, 2345
		AMER	0545, 1145, 1745, 2345
XIII	Russian Federation	APAC	0930, 2130
XIV	New Zealand	APAC	0330, 0930, 1530, 2130 0130, 1330 - NZ coast (8)
		AMER	0330, 0930, 1530, 2130 0130, 1330 - NZ coast (8)
XV	Chile	AMER	0345, 1845
XVI	Peru	AMER	1115, 2315
XVII	Canada	APAC	0300, 1500 (3)
		AMER	0300, 1500 (3)
XVIII	Canada	AORE	0300, 1500 (3)
		AMER	0300, 1500 (3)
XIX	Norway	EMEA	1100, 2300

<b>METAREA</b>	<b>Issuing Country</b>	<b>Ocean Region Satellite</b>	<b>Scheduled Broadcast (UTC)</b>
XX	Russian Federation	EMEA	0600, 1800
XXI	Russian Federation	APAC	0600, 1800

**NOTES:**

OCEAN REGION SATELLITE:

AMER = Americas I-4

AOR (E) = Atlantic Ocean Region (E)

APAC = Asia/Pacific I-4

EMEA = Europe, Middle East and Africa

- (1) Scheduled bulletins and warnings for the western Mediterranean Sea are prepared by France.
- (2) Forecast for area 30°S-50°E / 50°S-80°E and tropical cyclone warnings are prepared by La Réunion.
- (3) Bulletins issued only during the shipping season.
- (4) Western Australia bulletins are Coastal Warnings and Forecasts transmitted only to SafetyNET Coastal Area F and G in METAREA X.
- (5) Northern Territory bulletins are Coastal Warnings and Forecasts transmitted only to SafetyNET Coastal Areas G and H in METAREA X.
- (6) These bulletins are coastal Warnings and Forecasts for Bass Strait transmitted only to SafetyNet coastal area D. Bass Strait schedule time will change to 1 UTC hour earlier during Australian Eastern Daylight Saving time.
- (7) Scheduled bulletins and warnings for south of the Equator prepared by Australia.
- (8) These bulletins are coastal Warnings and Forecasts for New Zealand coastal areas.

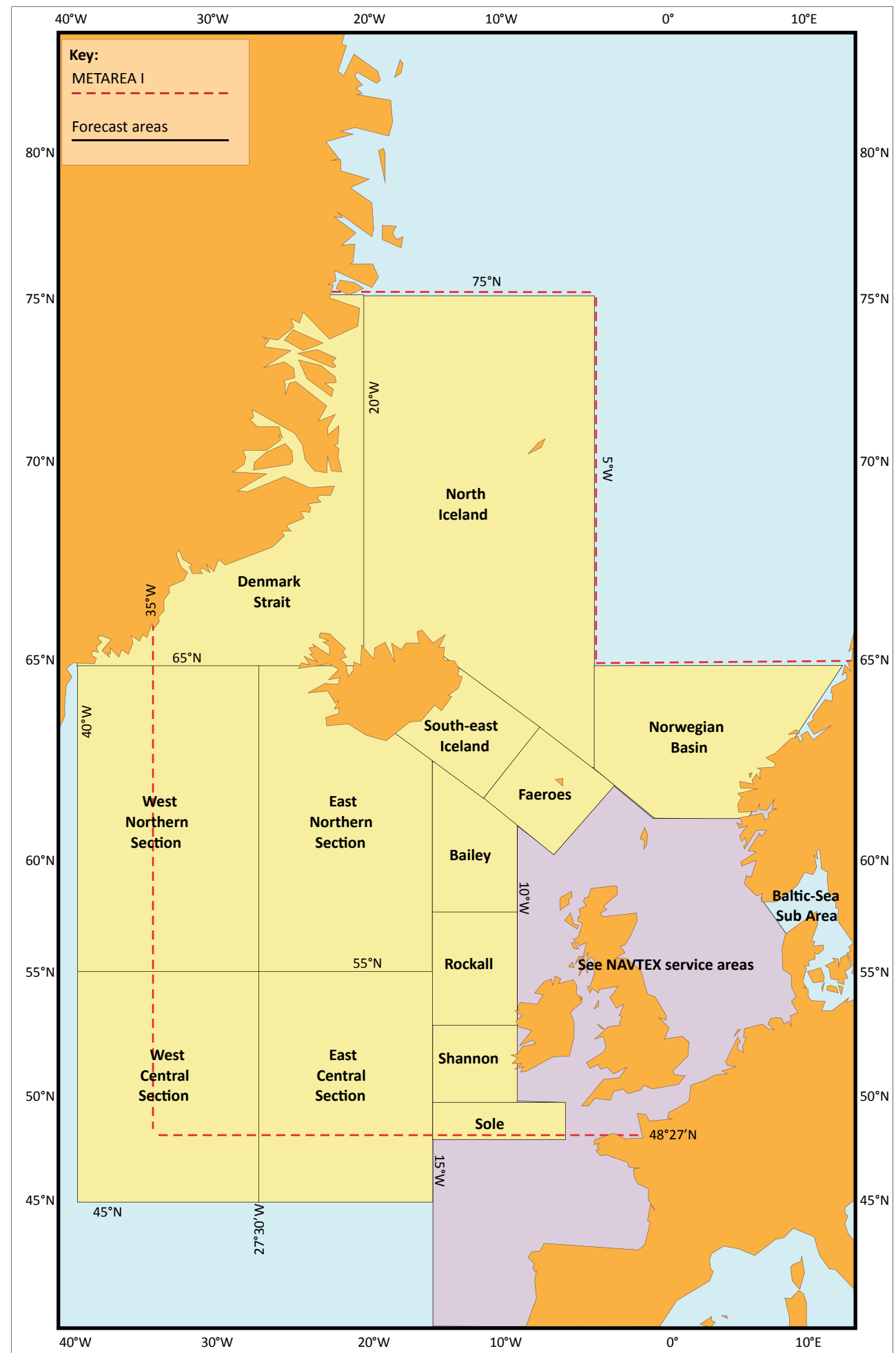


# METAREA I

The North Atlantic Ocean east of 35°W, from 48°27'N to 75°N, including the North Sea and Baltic Sea sub-area

Issuing service: United Kingdom of Great Britain and Northern Ireland

02 February 2015



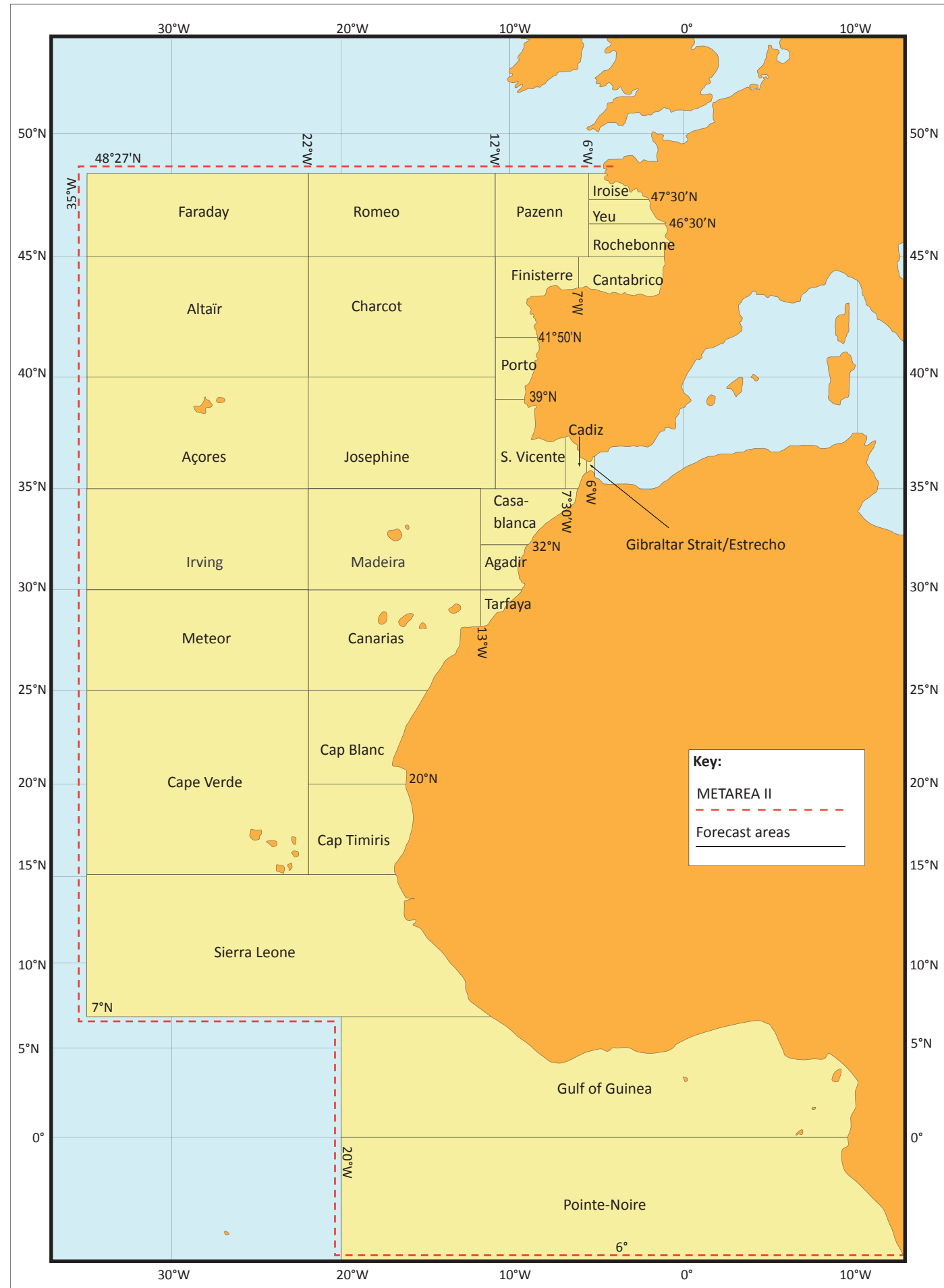
The designations employed and the presentation of material in this publication do not imply the expression of any opinion whatsoever on the part of the Secretariat of WMO concerning the legal status of any country, territory, city or area, or of its authorities, or concerning the delimitation of its frontiers or boundaries.

### METAREA II

Atlantic waters east of 35°W, from 7°N to 48°27'N, and east of 20°W from 7°N to 6°S, including the Strait of Gibraltar

Issuing country: France

02 February 2015



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## METAREA III

The Mediterranean and Black Seas, east of the Strait of Gibraltar

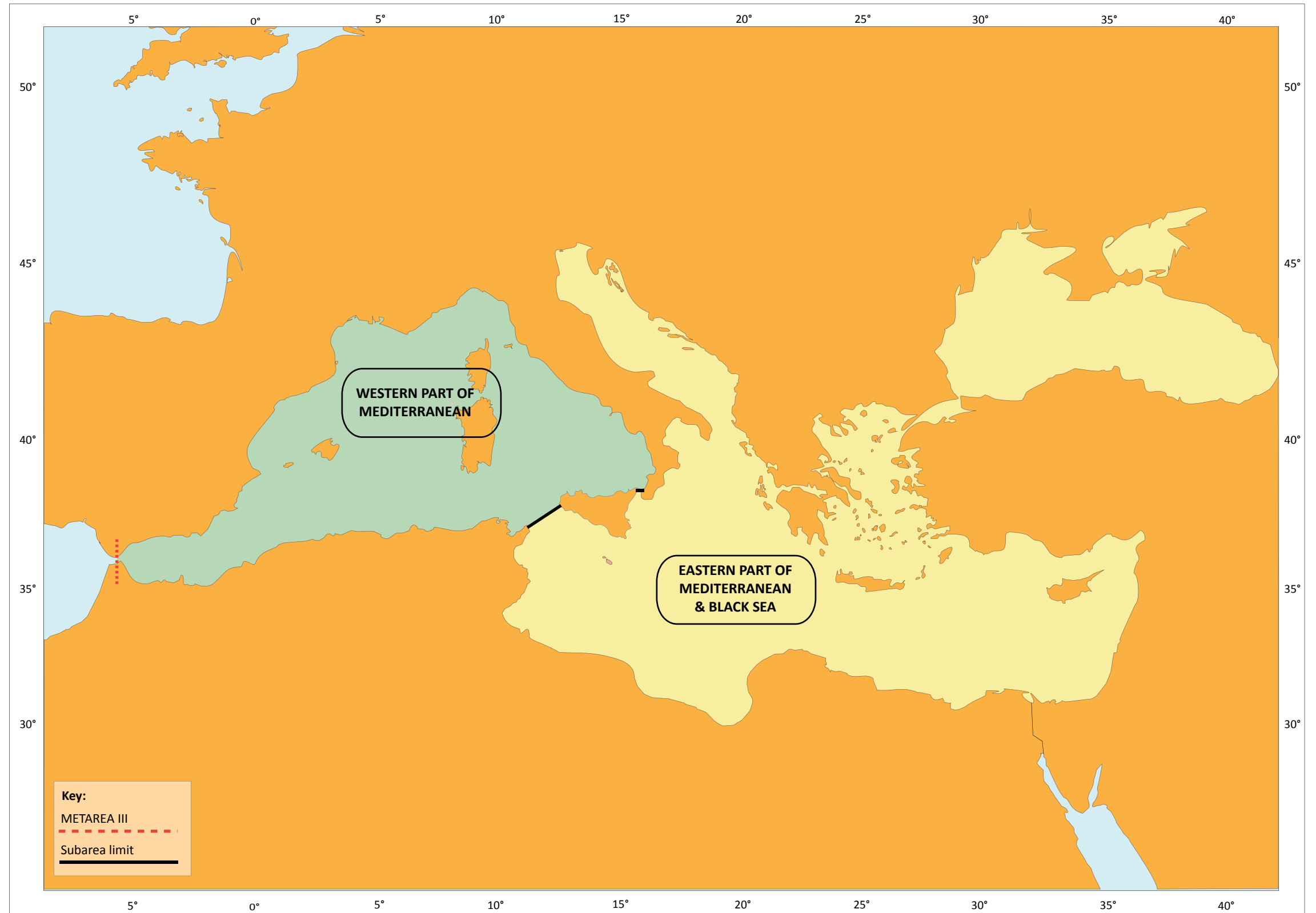
**Issuing service:** Greece

**Preparation service:**

France: Western Part of Mediterranean

Greece: Eastern Part of Mediterranean

02 February 2015



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## METAREA III (W) - Western Part of Mediterranean

Issuing service: Greece

Preparation service: France

02 February 2015

### Namelist of subareas:

0 Alboran	11 Provence
1 Palos	12 Corse
2 Alger	13 Sardaigne
3 Annaba	14 Cabrera
4 Tunis	15 Minorque
5 Carbonara	16 Lion
6 Lipari	17 Baleares
7 Circeo	
8 Maddalena	
9 Elbe	
10 Ligure	

### Characteristic points:

Gibraltar	36°09'N	005°21'W
Cap Teulada	38°52'N	008°38'E
Cap de Gata	36°44'N	002°16'W
Cap Carbonara	39°07'N	009°33'E
Cap de Palos	37°38'N	000°40'W
Cap Falcone	40°57'N	008°12'E
Cap de la Nao	38°44'N	000°14'E
Cap Linaro	42°01'N	011°52'E
Cap en Serra	38°54'N	001°36'E
Cap Palimuro	40°02'N	015°15'E
Cap Gala Figuera	39°20'N	003°10'E
Cap San Vito	38°12'N	012°43'E
Cap Pera	39°43'N	003°28'E
Cap Lilibeo	37°48'N	012°26'E
Cap Bagur	41°57'N	003°12'E
Cap Bon	37°01'N	011°08'E
Montpellier	43°36'N	003°53'E
Cap Roux	36°57'N	008°47'E
Saint Raphael	43°26'N	006°46'E
Jijel	36°50'N	005°43'E
Cap Corse	43°00'N	009°21'E
Cherchel	36°36'N	002°11'E
Bouches de Bonifacio	41°23'N	009°10'E
Port Say	35°04'N	002°30'W
Ceuta	35°53'N	002°15'W



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**METAREA III (E) - Eastern Part of Mediterranean**

Issuing service: Greece  
Preparation service: Greece

02 February 2015

**Namelist of subareas:**

- 18 North Adriatic
- 19 Central Adriatic
- 20 South Adriatic
- 21 Boot
- 22 Melita
- 23 Gabes
- 24 Sidra
- 25 North Ionio
- 26 South Ionio
- 27 Patraikos
- 28 Korinthiakos
- 29 Kythira Sea
- 30 SouthWest Kritiko
- 31 SouthEast Kritiko
- 32 Taurus
- 33 Delta
- 34 Crusade
- 35 Kastellorizo Sea
- 36 Rodos Sea
- 37 Karpathio
- 38 West Kritiko
- 39 East Kritiko
- 40 SouthWest Aegean
- 41 SouthEast Aegean Ikario
- 42 Samos Sea
- 43 Saronikos
- 44 South Evvoikos
- 45 Kafireas Strait
- 46 Central Aegean
- 47 NorthWest Aegean
- 48 NorthEast Aegean
- 49 Thrakiko
- 50 Marmara
- 51 Thermaikos
- 52 West Black Sea
- 53 East Black Sea



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## METAREA IV

The western part of the North Atlantic Ocean east of the North American coast to 35°W, from 7°N to 67°N, including the Gulf of Mexico, the Caribbean Sea and the sea area between 7°N and the South American coastline eastward to the Guyana/Brazil frontier at 4°30'N and Hudson Bay\* and Approaches.

\*INMARSAT-C broadcasts to Hudson Bay and Approaches use rectangular area referencing so as to ensure that INMARSAT-C receivers aboard vessels navigating outside this area do not display marine forecasts messages extraneous to the vessels area of operation.

### Issuing service:

**Canada (Hudson Bay and Approaches):** North of 31°N to 67°N

**United States of America:** North of 7°N to 31°N West of 35°W including the Caribbean Sea and Gulf of Mexico

02 February 2015



### METAREA V

Atlantic waters west of 20°W from 35°50'S to 7°N, narrowing in the coastal strips at the extremities to the Uruguay/Brazil frontier at 33°45'S and the Guyana/Brazil frontier at 4°30'N

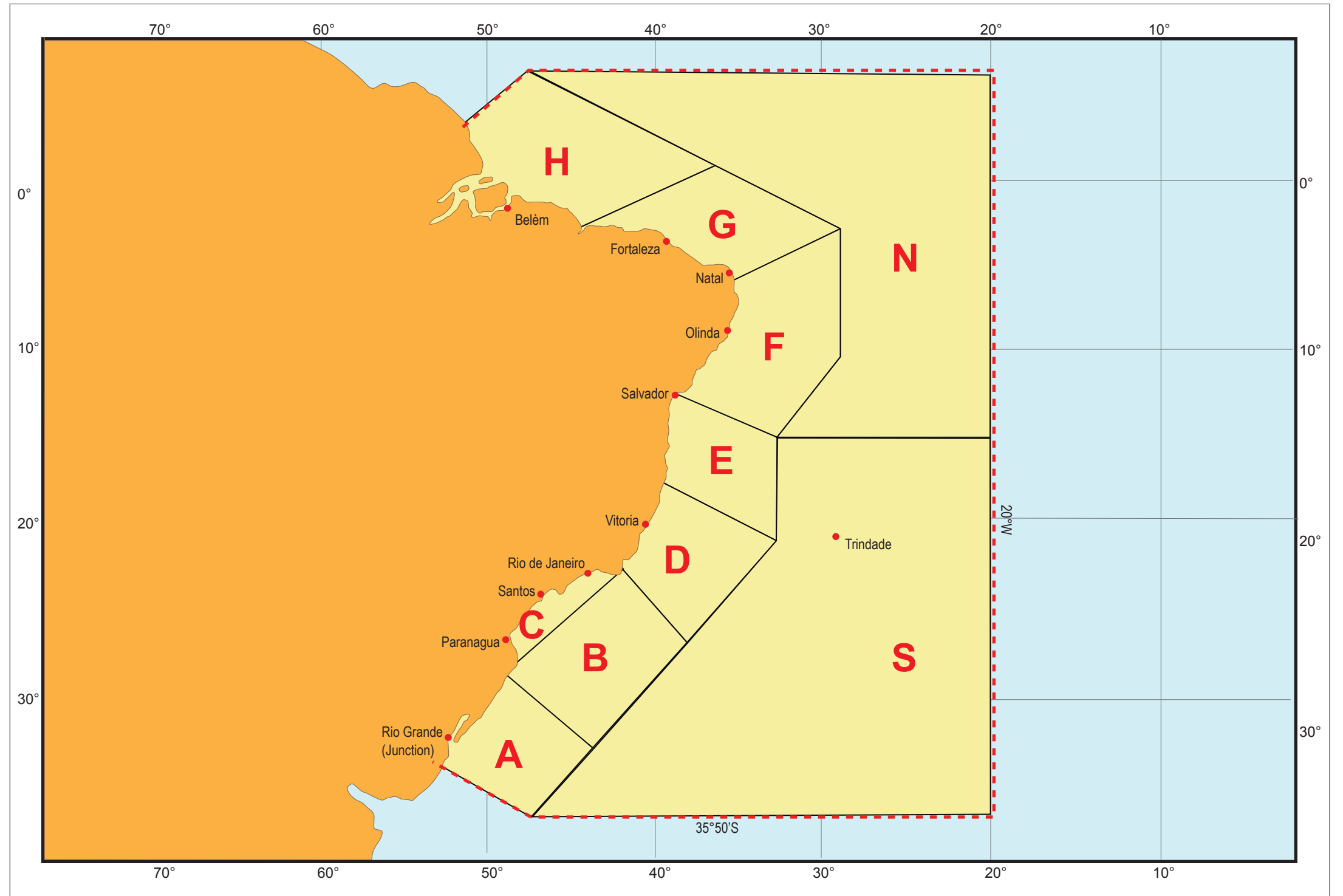
Issuing service: Brazil

29 January 2015

**Key:**  
 METAREA V  
 Forecast areas

**Namelist of forecast areas:**

- A** - ALFA: Arroio Chui - Cabo de Santa Marta
- B** - BRAVO: Cabo de Santa Marta - Cabo Frio (Oceanic)
- C** - CHARLIE: Cabo de Santa Marta - Cabo Frio (Coastal)
- D** - DELTA: Cabo Frio - Caravelas
- E** - ECHO: Caravelas - Salvador
- F** - FOX-TROT: Salvador - Natal
- G** - GOLF: Natal - São Luiz
- H** - HOTEL: São Luiz - Cabo Orange
- N** - NOVEMBER: North oceanic area (West of 20°W, from 07°N to 15°S)
- S** - SIERRA: South oceanic area (West of 20°W, from 15°S to 36°S)



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## METAREA VI

The South Atlantic and Southern Oceans south of 35°50'S, and from 20°W to the longitude of Cape Horn, 67°16'W, including the coastal strip to the Uruguay/Brazil frontier at 33°45'S

Issuing service: Argentina

29 January 2015

**Key:**

METAREA VI

Forecast areas

▲ NAVTEX station

**High Seas Forecast - North of 60°S:**

NORTH AREA: From 35°S to 40°S and between 20°W and 55°W  
 CENTRAL EAST AREA: From 40°S to 50°S and between 20°W and 40°W  
 CENTRAL WEST AREA: From 40°S to 50°S and between 40°W and 60°W  
 SOUTH EAST AREA: From 50°S to 60°S and between 20°W and 40°W  
 SOUTH WEST AREA: From 50°S to 60°S and between 40°W and 60°W  
 DRAKE AREA: From 55°S to 60°S and between 60°W and 67°W

**High Seas Forecast - South of 60°S:**

**Oceanic Areas:**

Northern Bellingshausen Sea: 60°S-66°S and 70°W-90°W  
 Southern Bellingshausen Sea: 66°S-73°S and 70°W-90°W  
 Northern Weddell Sea: 60°S-68°S and 20°W-50°W  
 Southern Weddell: 68°S-78°S and 20°W-60°W

**Coastal Areas:**

Zona 1: Drake South (south of 60°S)  
 Zona 2: Mar de la Flota  
 Zona 3: Gerlache Strait  
 Zona 4: Margarita Bay  
 Zona 5: Erebus and Terror Gulf

**Coastal Areas:**

The Atlantic ocean between 36°17'23"S and 55°00'00"S.  
 Coastal area extends 300 nautical miles offshore.

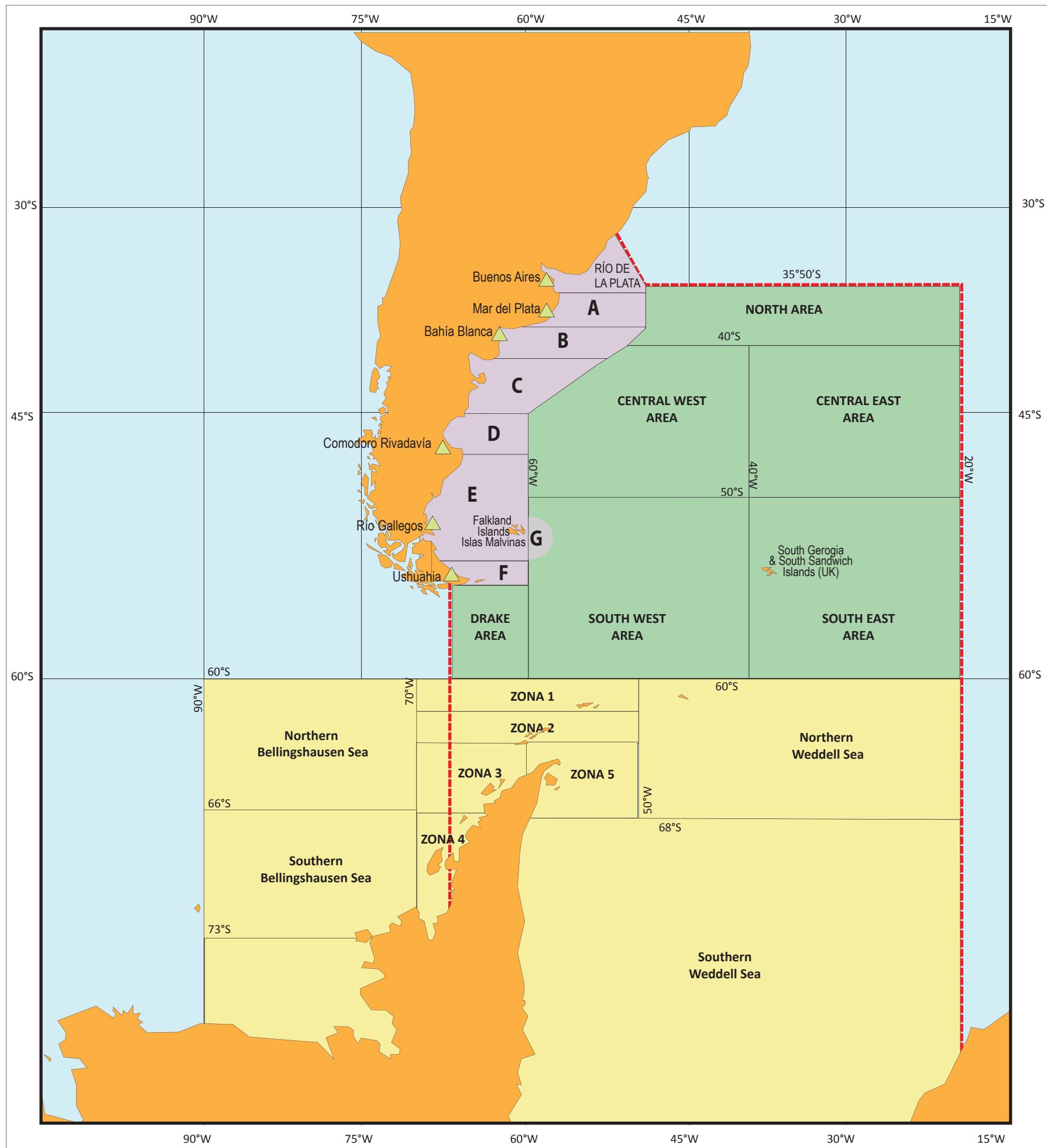
**RIO DE LA PLATA COAST:**

**Interior Coast:**

From the mouths of the Paraná and Uruguay rivers up to an imaginary line joining PUNTA DEL ESTE (Uruguay - 34°58'062"S, 54°57'032"W) and PUNTA RASA DEL CABO SAN ANTONIO (Argentina coast - 36°17'23"S, 56°47'03"W), and the area of the Atlantic Ocean between the two geographical points and 300 nautical miles out to sea.

**Exterior Coast:**

A - Mar del Plata: From 36°17'S to 38°30'S  
 B - Bahía Blanca: From 38°30'S to 41°S  
 C - Peninsula de Valdes: From 41°S to 45°S  
 D - Golfo San Jorge: From 45°S to 48°S  
 E - Patagonia Sur: From 48°S to 54°S  
 F - Fin del Mundo: From 54°S to 55°S  
 G - Zona Malvinas



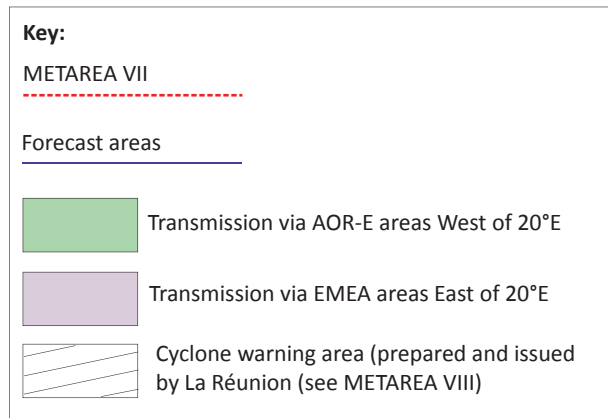
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### METAREA VII

The South Atlantic and Southern Oceans south of 6°S from 20°W to the coast of Africa, thence southward to the Cape of Good Hope and the South Indian Ocean and Southern Oceans south of 10°30'S from the Cape to 55°E, thence south of 30°S to 80°E

**Issuing service:** South Africa  
25 March 2019



**Note:**  
(1) Forecasts for GOUGH FORTIES, METEOR FORTIES and MARION FORTIES WEST are issued on request only.

(2) Vessels requiring forecasts for the area south of 50°S must provide expected positions together with their request.

(3) Coastal forecast areas extend 50 nautical miles offshore.



**METAREA VIII**

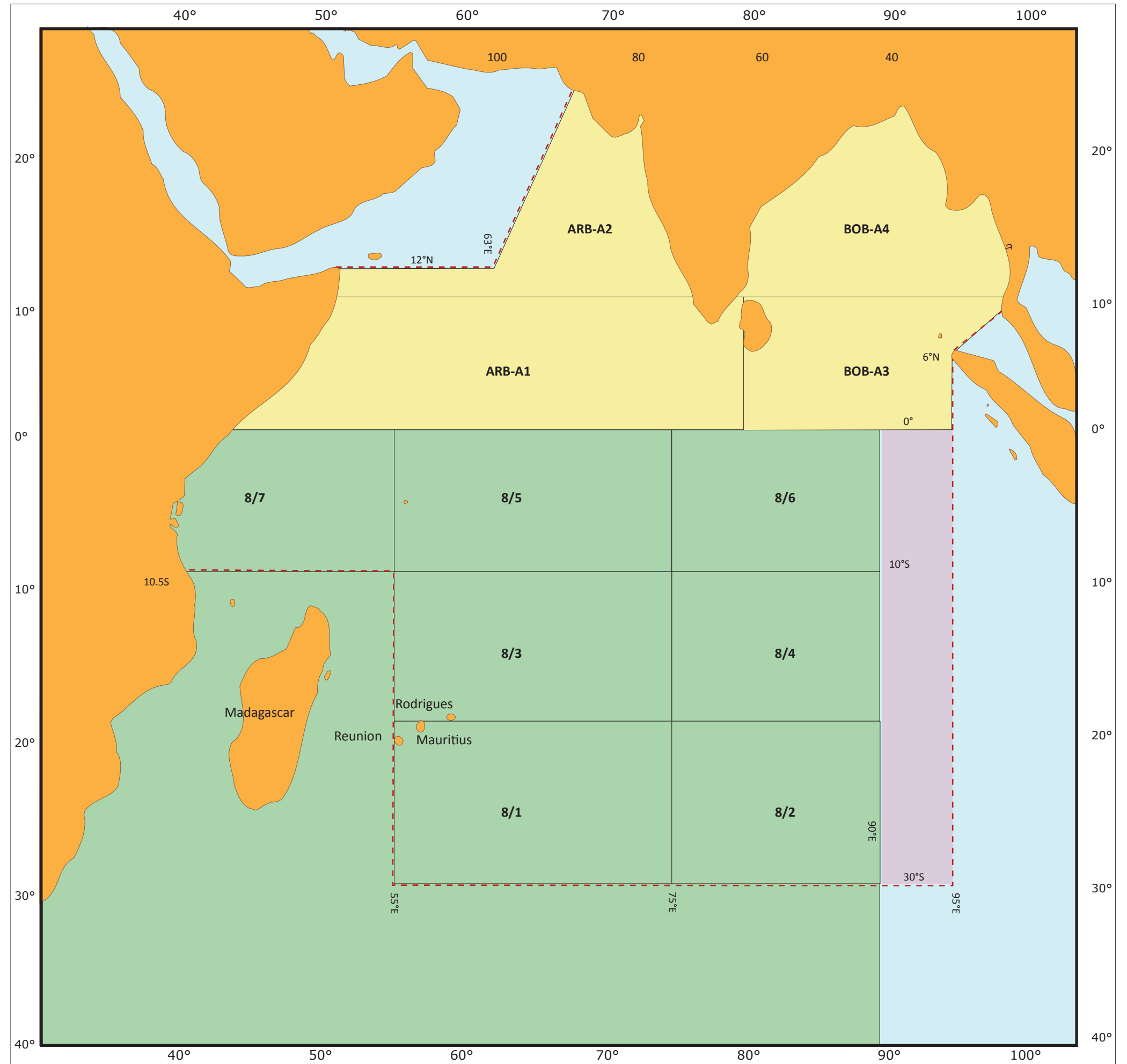
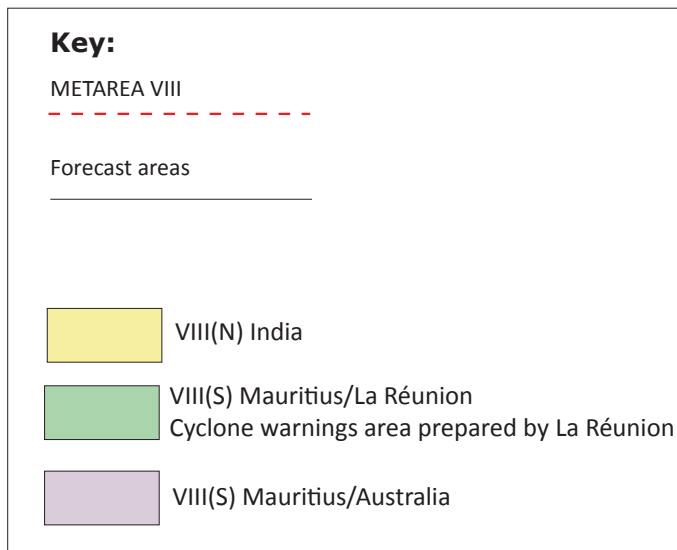
**VIII(N)** - The area of the Indian Ocean enclosed by lines from the Indo-Pakistan frontier in 23°45'N 68°E to 12°N 63°E, thence to Cape Gardafui; the east African coast south to the equator, thence to 95°E, to 6°N, thence NE\_wards to the Myanmar/Thailand frontier in 10N 98°30'E.

**VIII(S)** - The east African coast from the equator south to 10°30'S, thence to 55°E, to 30°S, to 95°E, to the equator, to the east African coast.

**Issuing service:**

- VIII(N)** - India
- VIII(S)** - Mauritius (scheduled forecast)
- La Reunion (Tropical Cyclone Warning)
- Australia (Tropical Cyclone Warning East of 90E)

25 March 2019



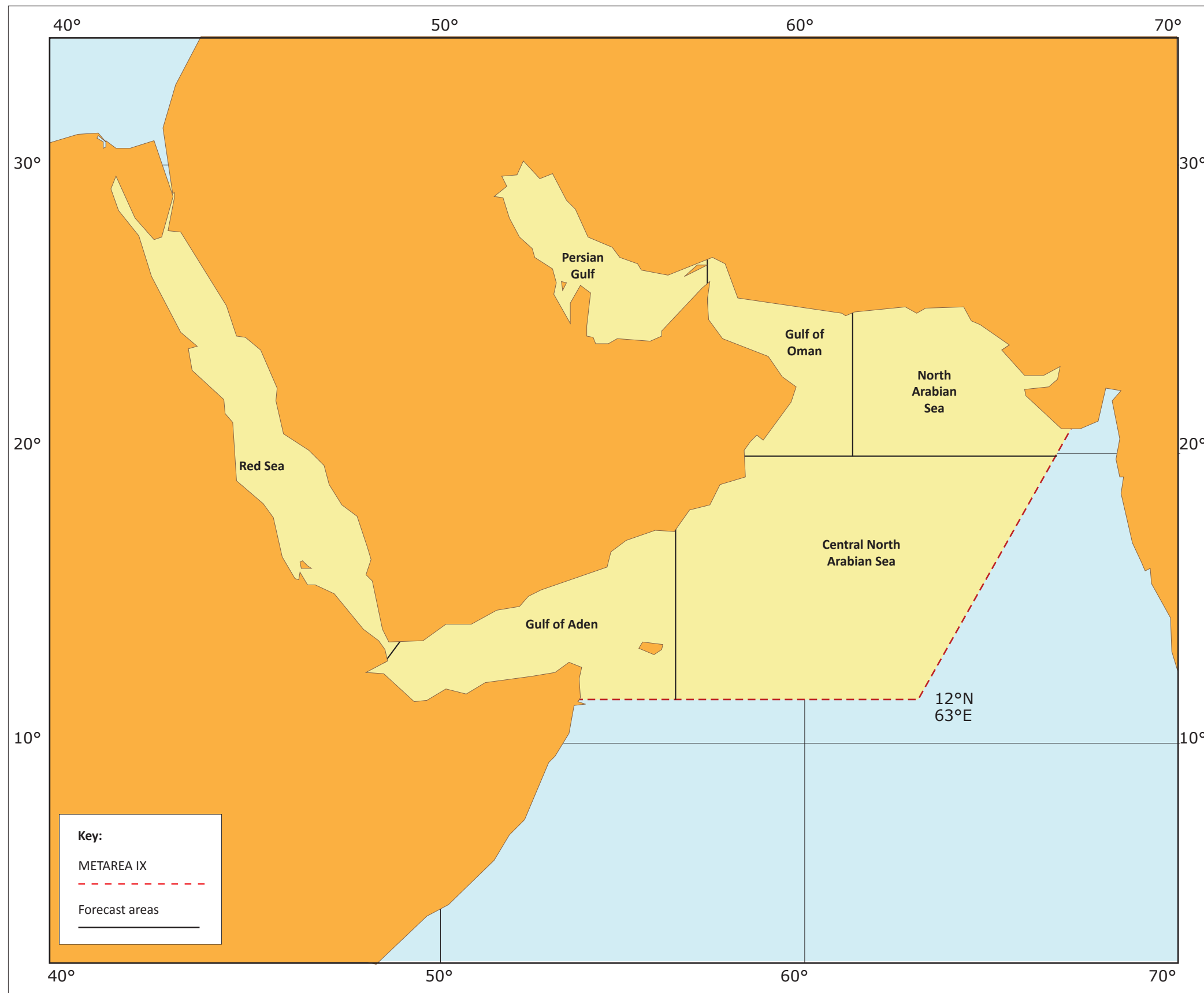
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### METAREA IX

The Red Sea, Gulf of Aden, Arabian Sea and Persian Gulf, north of Area VIII

Issuing service: Pakistan

10 August 2016



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### METAREA X

The South Indian Ocean and Southern Oceans east of 80°E and south of 30°S, to 95°E, to 12°S, to 127°E and thence to the Timor Sea, South Pacific and Southern Oceans south of 10°S to 141°E, to the Equator, to 170°E, to 29°S, thence south-westward to 45°S at 160°E and then to the meridian at 160°E.

**Issuing service:** Australia  
**Preparation service:** Papua new Guinea  
7 February 2019



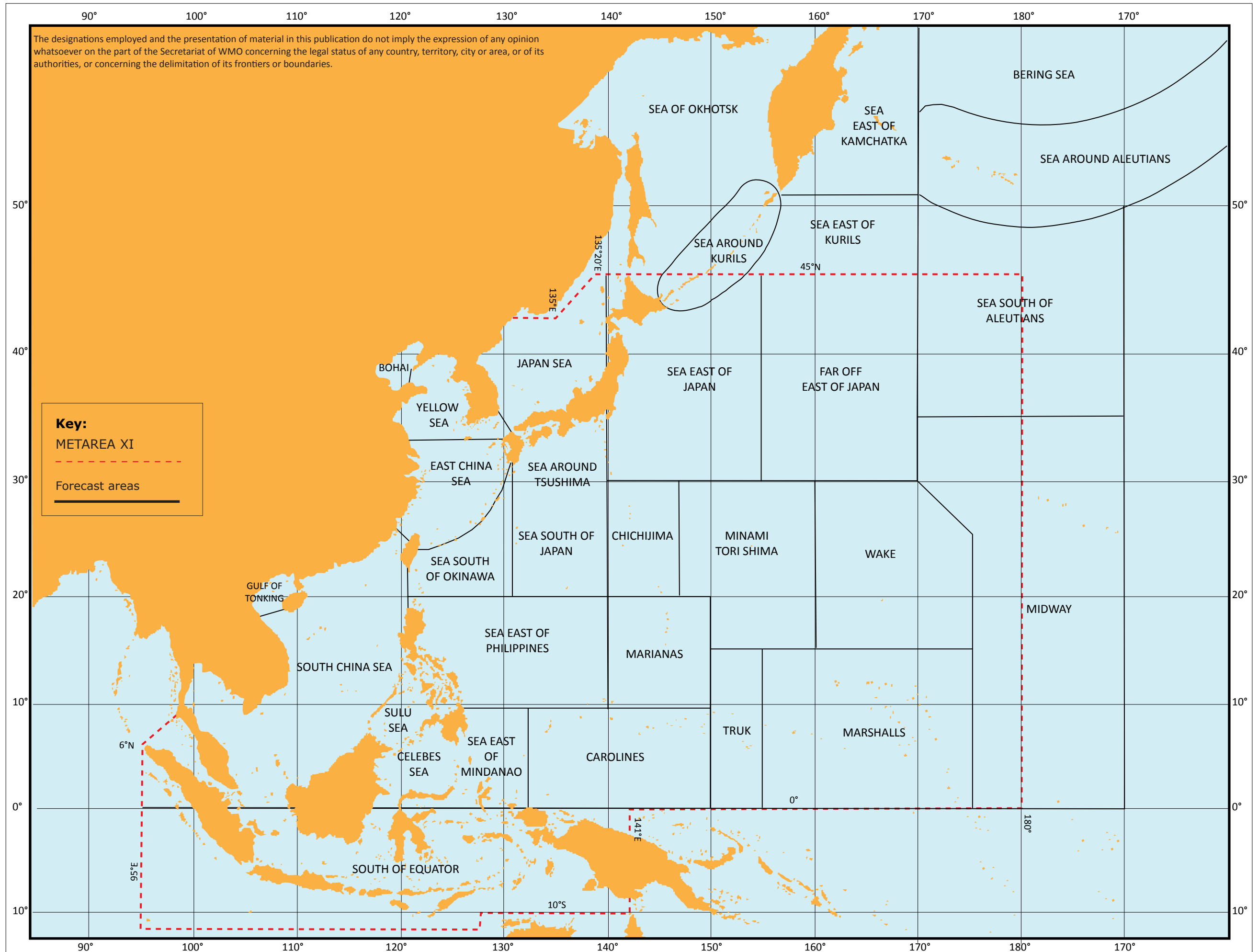
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### METAREA XI - North Western Pacific

The Indian Ocean, China Sea and North Pacific Ocean northward of Area X and on the equator to longitude 180°, eastward of Area VIII and the Asian continent to the North Korea/Russian Federation frontier in 42°30'N 130°E, thence to 135°E, NE\_wards to 45°N 138°E, to 45°N 180°

Issuing service: China and Japan

29 January 2015

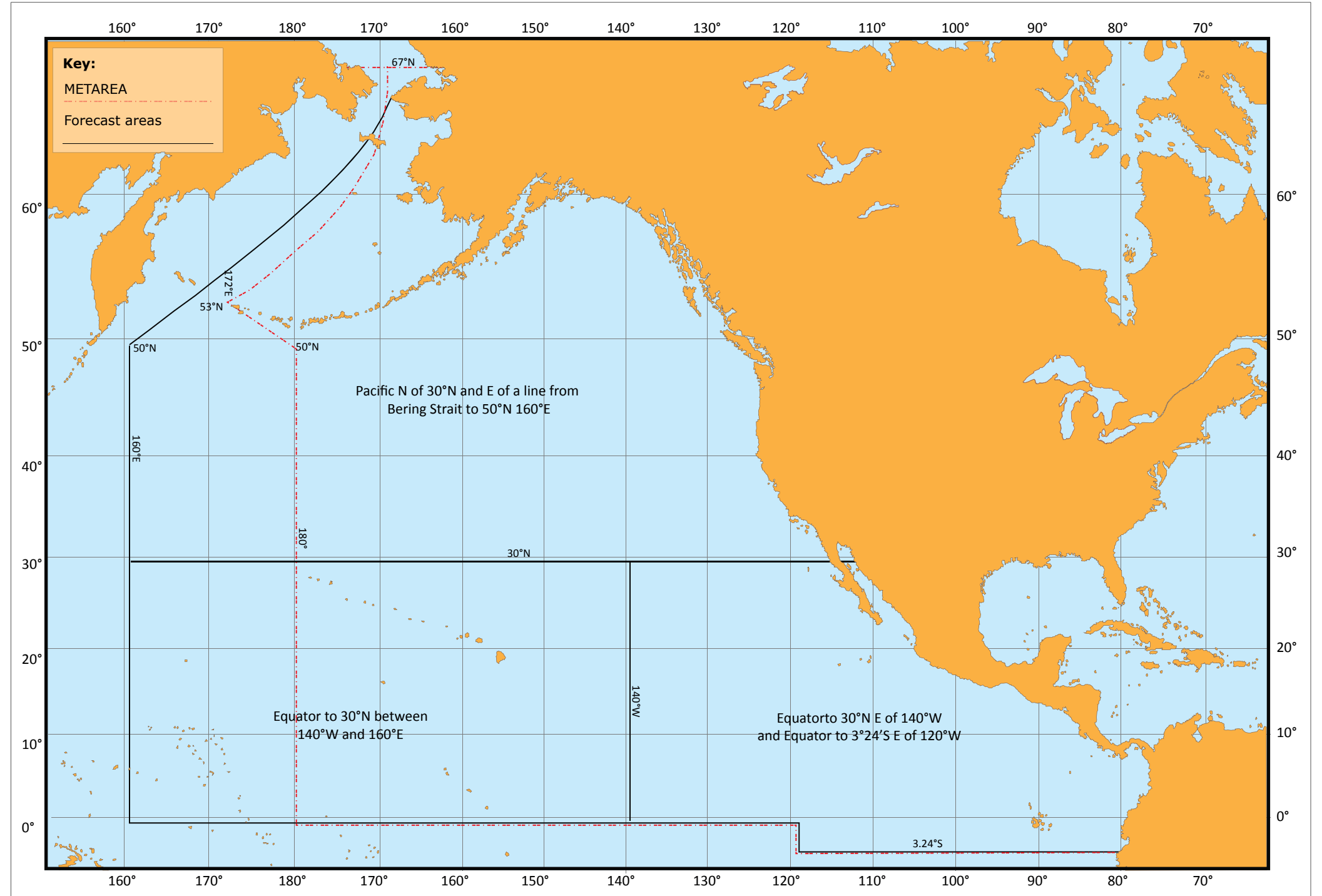


### METAREA XII

The eastern part of the Pacific Ocean, west of the North and South American coasts and east of 120°W, from 3°24'S to the Equator, thence to 180°, to 50°N thence north-westward to 53°N 172°E, north-eastward following the marine frontier between the United States and Russian Federation waters to 67°N.

Issuing service: United States of America

2 February 2015



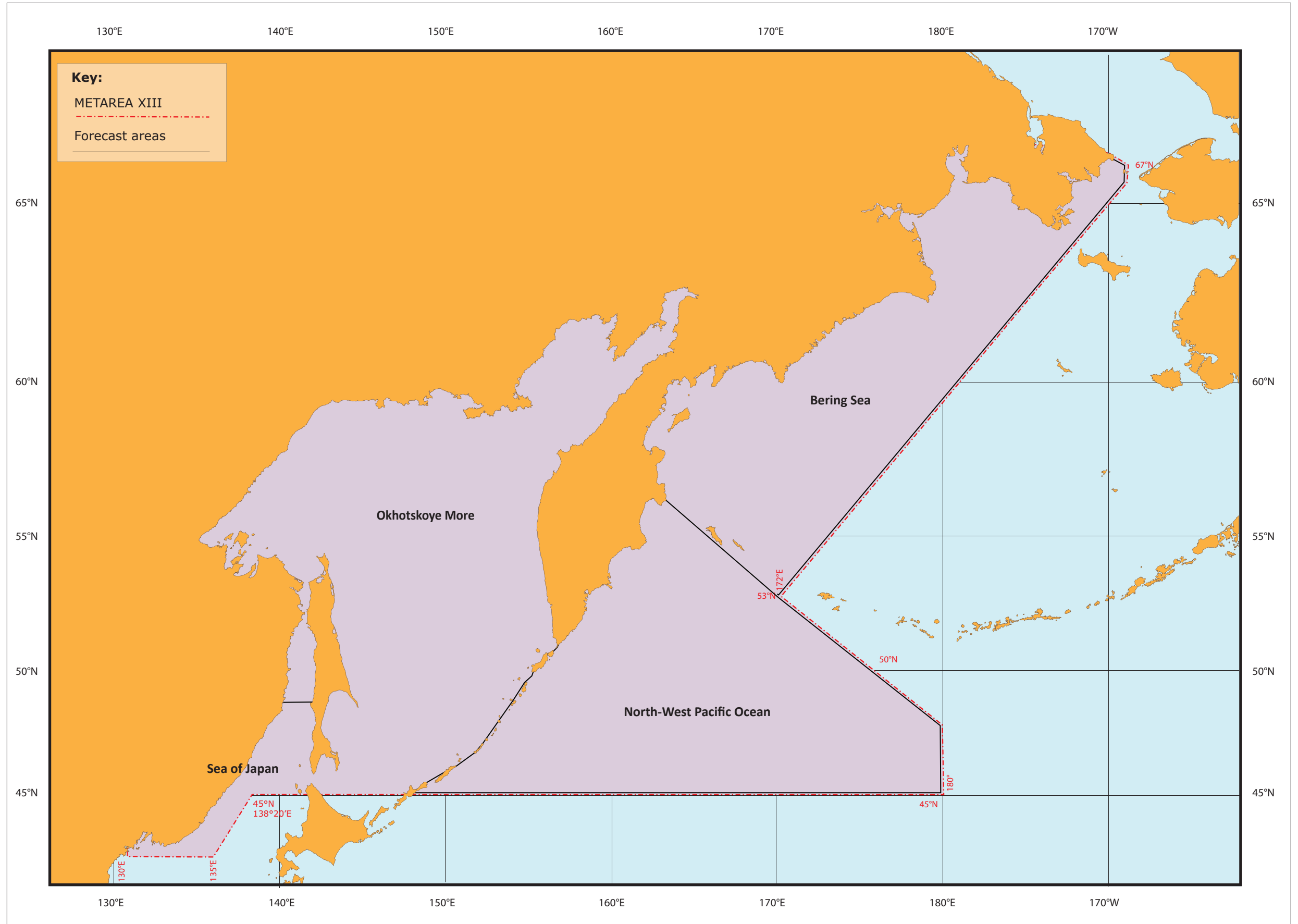
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### METAREA XIII

Sea areas enclosed north of the line starting 42°30'N 130°E, and thence to 135°E, north east to 45°N 138°20'E, to 45°N longitude 180°, then to 50°N, then north west to 53°N 172°E, and then following the international dateline to 67°N, and then west to the Russian Federation coastline .

Issuing country: Russian Federation

10 April 2017



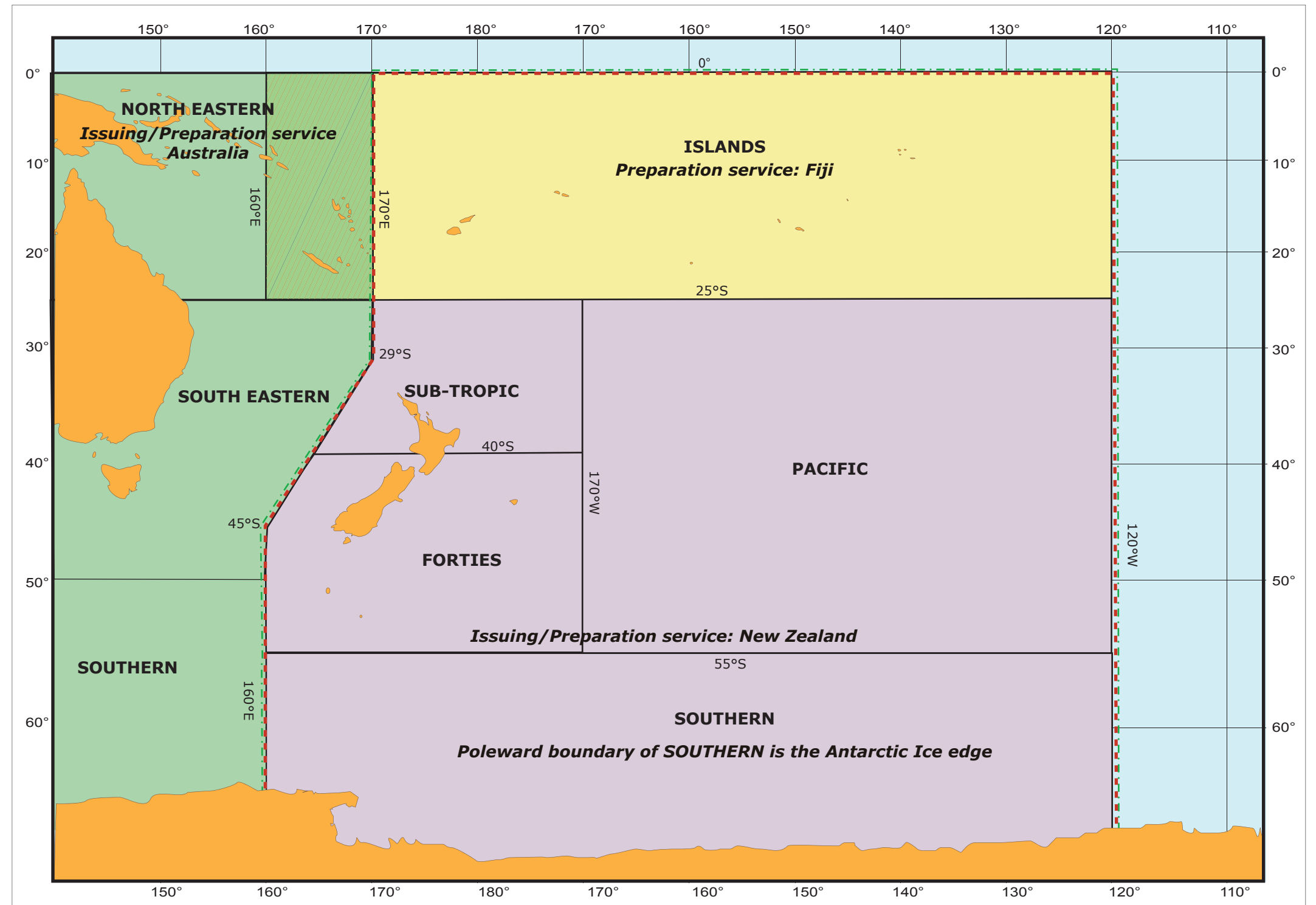
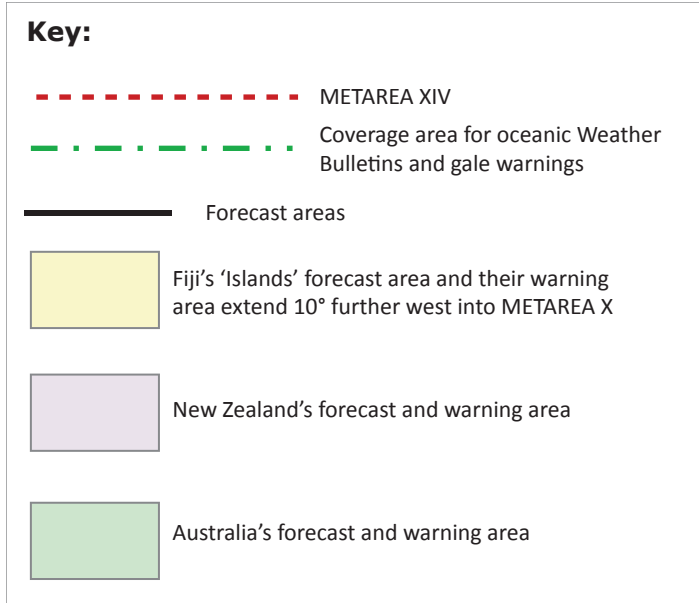
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### METAREA XIV

The South Pacific and Southern Oceans south of the Equator, bounded by Area X to the west, Area XII to the north and Area XV to the east

Issuing country: **New Zealand**

7 February 2019



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**METAREA XV**

The South Pacific and Southern Oceans south of 18°21'S following the coast of Chile to the longitude of Cape Horn at 67°16'W, and 120°W.

Issuing service: Chile

31 May 2018



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**METAREA XV subareas:**

<b>I</b>	Arica to Coquimbo
<b>II</b>	Coquimbo to Valparaíso
<b>III</b>	Valparaíso to Constitución
<b>IV</b>	Constitución to Isla Mocha
<b>V</b>	Isla Mocha to Canal Chacao
<b>VI</b>	Canal Chacao to 48°S
<b>VII</b>	48°S to Islotes Evangelistas
<b>VIII</b>	Islotes Evangelistas to 60°S
<b>IX</b>	From 60°S to South Pole
<b>X</b>	From 18°20'S to 60°S and eastern limit is western limits of Areas 1 to 8 to 120°W

### METAREA XVI

The South Pacific Ocean between 18°21'S and 3°24'S bounded by the coast of Peru and 120°W.

Issuing service: Peru

31 May 2018



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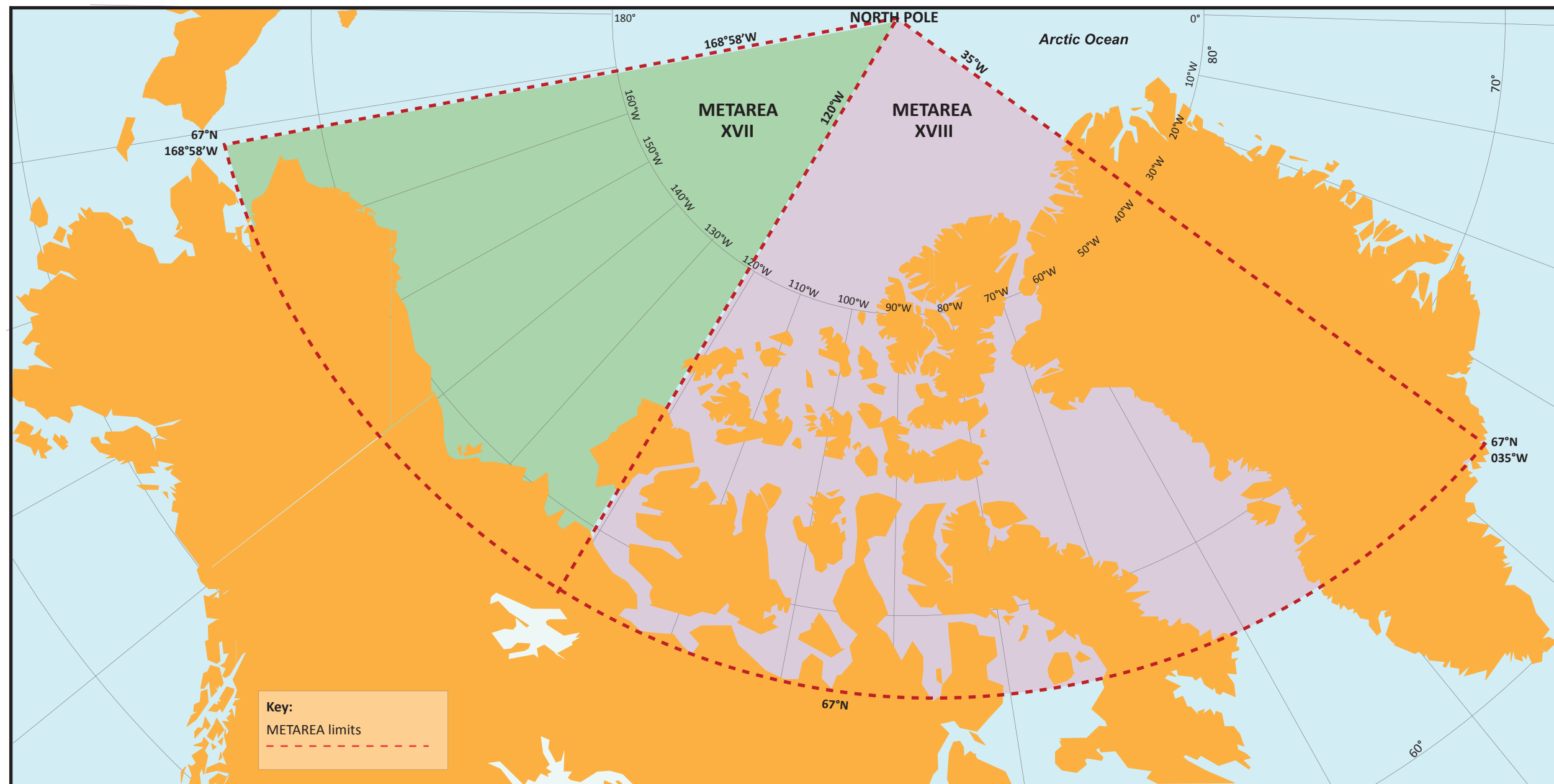
### METAREA XVII and XVIII

**METAREA XVII:** 67°N and 168°58'W to 90°N and 168°58'W, 90°N and 120°W to south to the Canadian Coastline along the 120°W meridian. The Arctic Ocean from south-west corner 67°N, 44°E to north-east corner 80°N, 165°W

**METAREA XVIII:** A position on the Canadian Coastline at the 120°W meridian to 90°N and 120°W, 90°N and 35°W to 67°N and 35°W

**Issuing service:** Canada (Northern and Arctic waters)

19 March 2015



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### METAREA XVII

The Arctic Ocean bounded by 67°N 168°58'W to 90°N to 90°N 035°W then back to 67°N 168°58'W.

Issuing title: Canada (Western Arctic)

19 March 2015

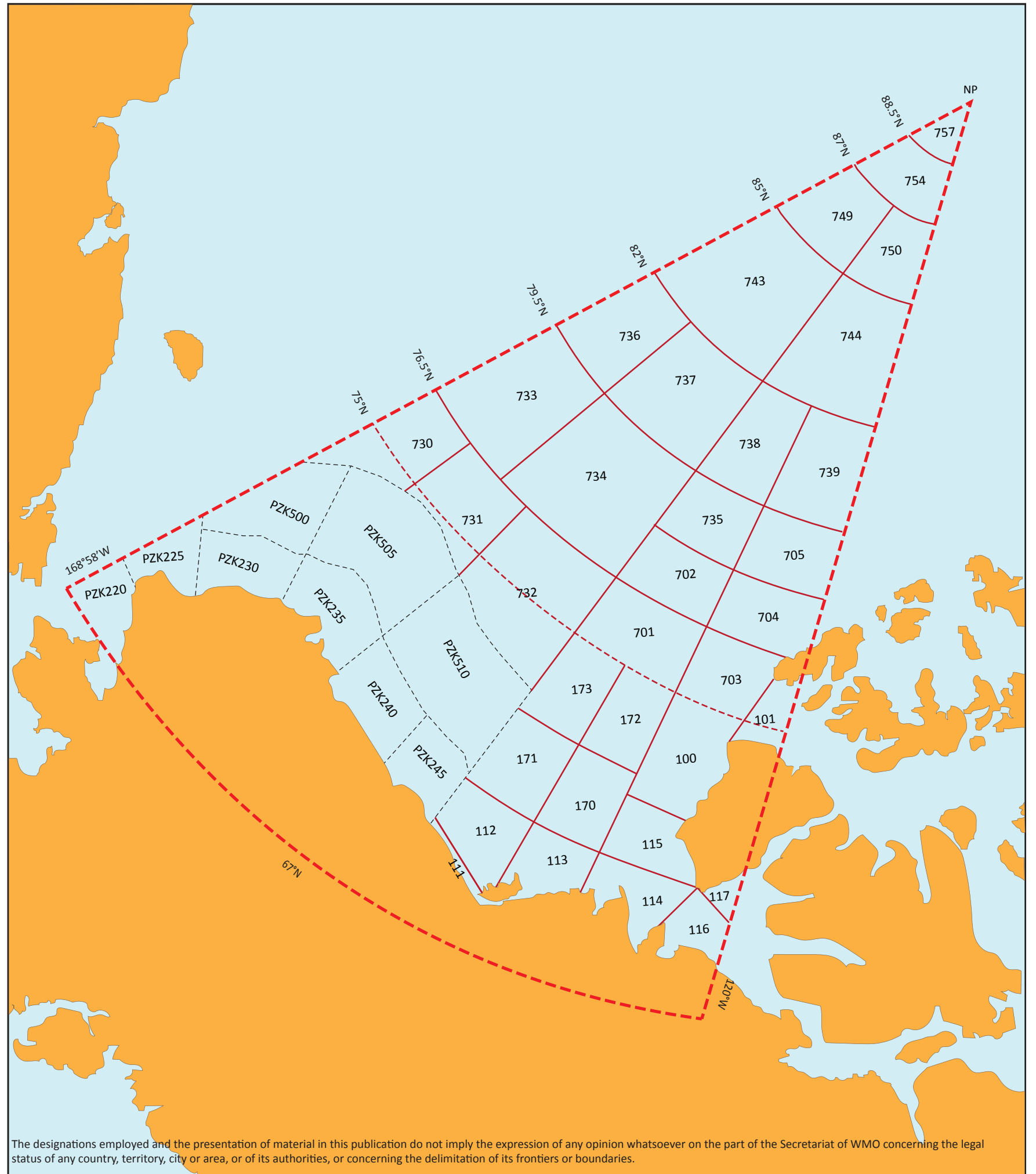
**Key:**

METAREA XVII

ID	Area Name
<b>Canada</b>	
<b>FQCN01 CWAO: Marine Forecasts North of 75°N</b>	
101	McClure
701	CT4
702	CU4
703	North Prince Patrick
704	South Prince Patrick
705	North Prince Patrick
730	CT1
731	CT2
732	CT3
733	CU1
734	CU2
735	CU3
736	CV1
737	CV2
738	CV3
739	CV4
743	CW1
744	CW2
749	CX1
750	CX2
754	CY1
757	CZ1

ID	Area Name
<b>Canada</b>	
<b>FQCN02 CWAO: Marine Forecasts South of 75°N</b>	
100	Prince Alfred
101	McClure
111	Yukon Coast
112	MacKenzie
113	Tuktoyaktuk
114	Baillie
115	Banks
16	Amundsen
117	Holman
170	North Tuktoyaktuk
171	North MacKenzie
172	West Prince Alfred
173	Northwest Beaufort
730	CT1
731	CT2
732	CT3

ID	Area Name
<b>United States of America (Northern Alaska – Arctic coast)</b>	
PKZ215	Kotzebue Sound
PKZ220	Wales to Cape Thompson
PKZ225	Cape Thompson to Cape Beaufort
PKZ230	Cape Beaufort to Point Franklin
PKZ235	Point Franklin to Cape Halkett
PKZ240	Cape Halkett to Flaxman Island
PKZ245	Flaxman Island to Demarcation Point
PKZ505	Western US Arctic Offshore (Navigation Season) (On trial)
PKZ500	Central US Arctic Offshore (Navigation Season) (On trial)
PKZ510	Eastern US Arctic Offshore (Navigation Season) (On trial)



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### METAREA XVIII

The Arctic Ocean bounded by 67°N 120°W to 90°N to 67°N 035°W then back to 67°N 120°W.

Issuing service: Canada (Central and Eastern Arctic)

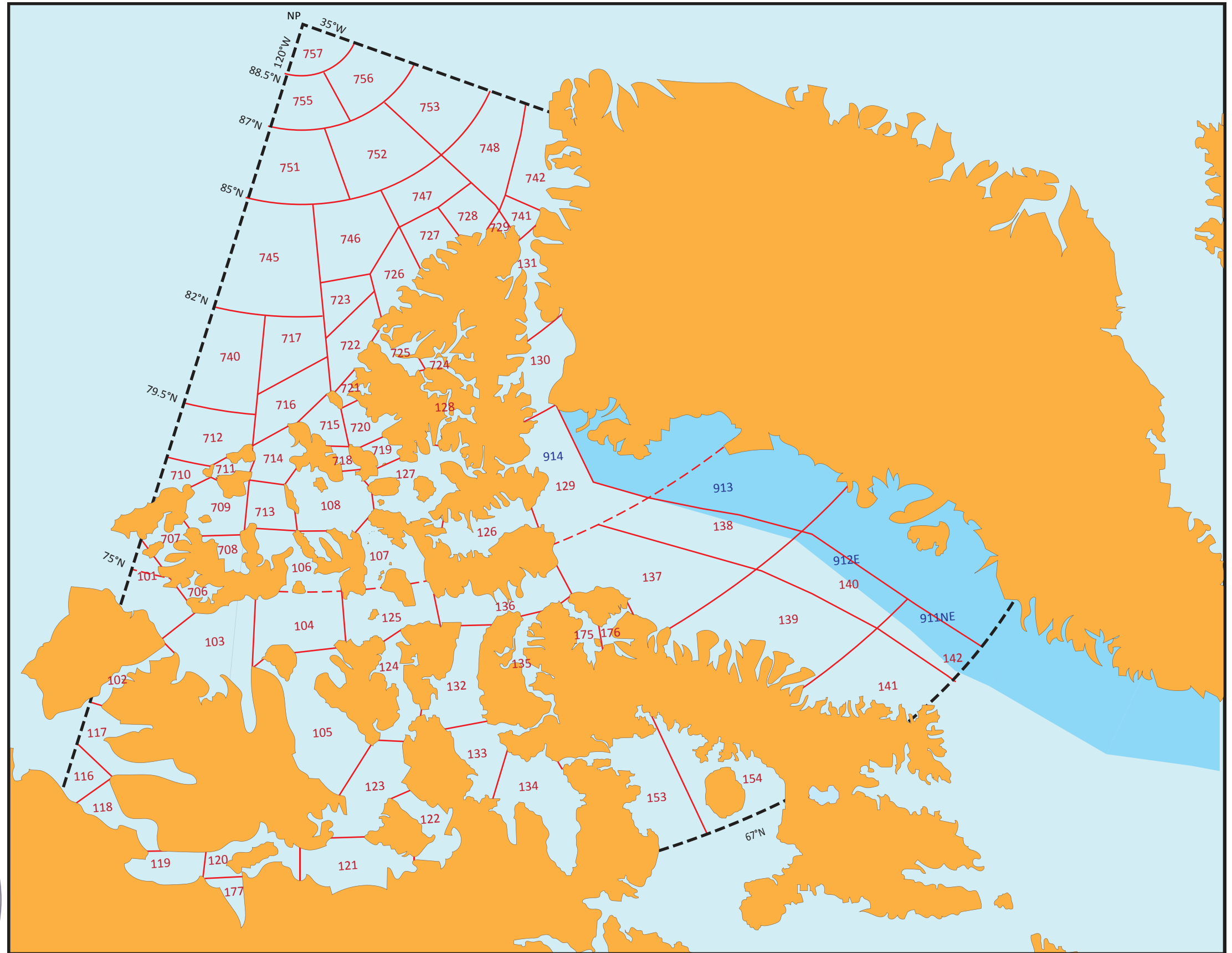
19 March 2015

**Key:**

Limit of METAREA XVIII

No.	Area Name
<b>FQCN03 CWAO:</b>	
<b>Forecasts North of 75°N</b>	
101	McClure
106	Byam
107	Queens
108	MacLean
126	Jones
127	Norwegian
128	Eureka
129	Clarence
130	Kane
131	Robeson
707	Fitzwilliam
708	Griper
709	Ballantyne
710	Brock
711	Wilkins
712	Borden
713	Hazen
714	Gustaf
715	Peary
716	South Ellef Ringnes
717	Ellef Ringnes
718	Hassel
719	Massey
720	South Sverdrup
721	North Sverdrup
722	South Axel Heiberg
723	Axel Heiberg
724	Greely
725	Nansen
726	Ellesmere
727	Ward Hunt
728	Bartlett
729	Alert
740	CV5
741	CV6
742	CV7
745	CW3
746	CW4
747	CW5
748	CW6
751	CX3
752	CX4
753	CX5
755	CY2
756	CY3
757	CZ1

No.	Area Name
<b>FQCN04 CWAO:</b>	
<b>Forecasts South of 75°N</b>	
101	McClure
102	Prince of Wales
103	Melville
104	Rae
105	McClintock
116	Amundsen
117	Holman
118	Dolphin
119	Coronation
120	Dease
121	Maud
122	St. Roch
123	Larsen
124	Peel
125	Barrow
132	Regent
133	Boothia
134	Committee
135	Admiralty
136	Lancaster
137	West Baffin
138	East Baffin
139	West Clyde
140	East Clyde
141	West Davis
142	East Davis
153	Igloolik
154	Prince Charles
175	Navy Board
176	Pond
177	Bathurst
706	Liddon



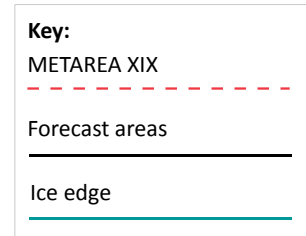
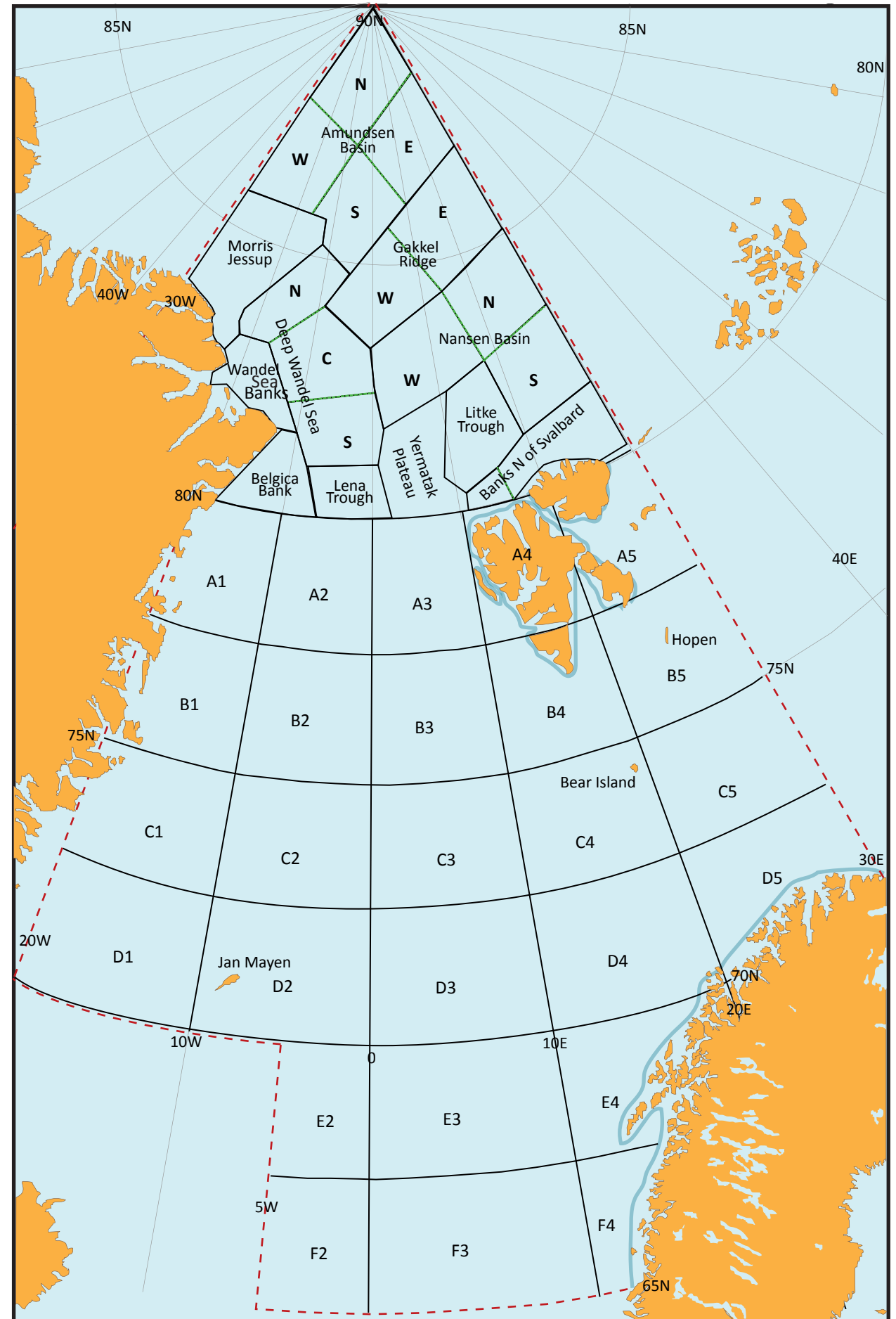
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### METAREA XIX

From a position on the Norwegian Coastline at 65°N to: 65°N and 5°W, 75°N and 5°W, west to a position on the Greenland Coastline. From the border between Norway and Russia (Inland) to: 69°47.68'N and 30°49.16'E, 69°58.48'N and 31°06.24'E, 70°22'N and 31°43'E, 71°N and 30°E. From this co-ordinate (71°N - 30°E) further north along the 30°E Meridian to: 90°N and 30°E, 90°N and 35°W, south to the Greenland coastline along the 35°W meridian

Issuing service: Canada (Western Arctic)

29 January 2015



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### METAREA XX

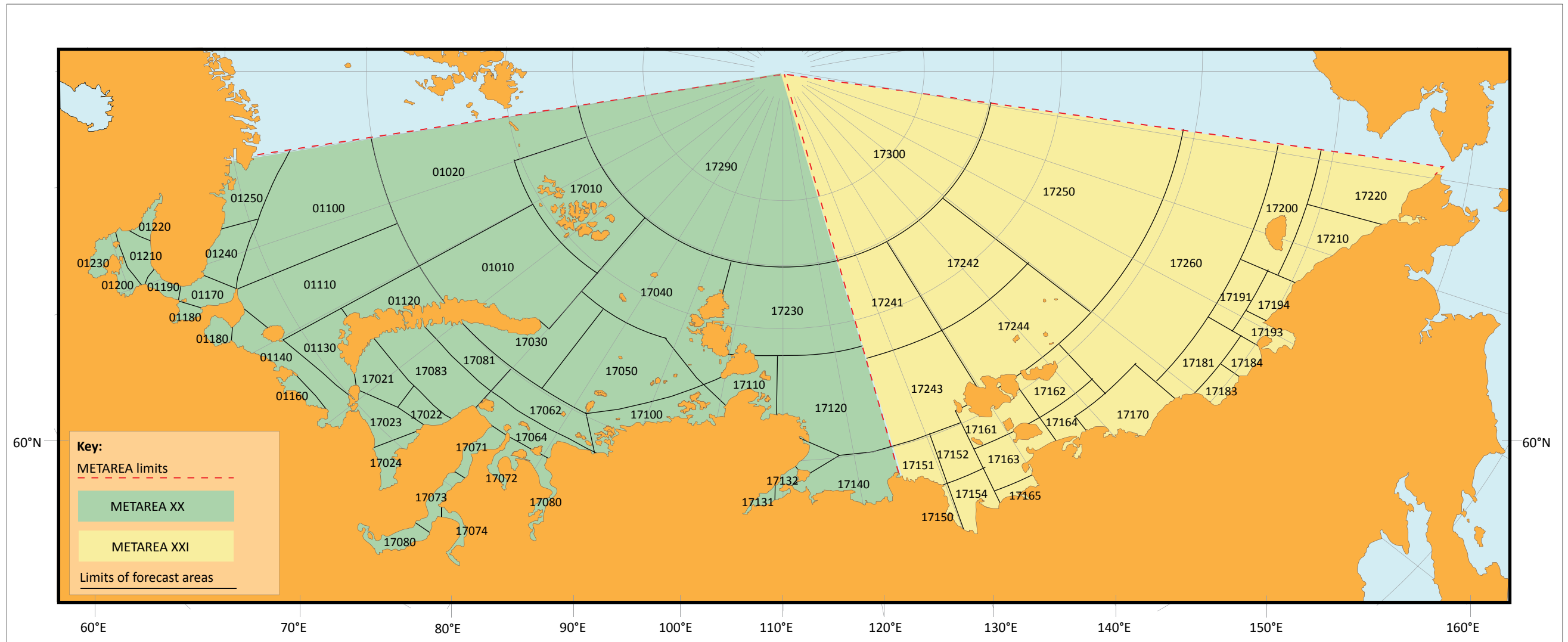
From the border between Norway and Russia (inland) to 69°47'68"N 30°49'16"E, 69°58'48"N 31°6'24"E, 70°22'N 31°43'E, 71°N 30°E; from this coordinate (71°N 30°E) further north along the 30°E meridian to 90°N 30°E, 90°N 125°E, then south to the Russian Federation coastline along the 125°E meridian.

### METAREA XXI

From a position on the Russian Federation coastline at the 125°E meridian northward along the 125°E meridian to 90°N then to 168°58'W, south-ward along the 168°58'W meridian to the 67°N parallel, westward along the 67°N parallel to a position on the Russian Federation coastline.

Issuing service: Russian Federation

29 January 2015



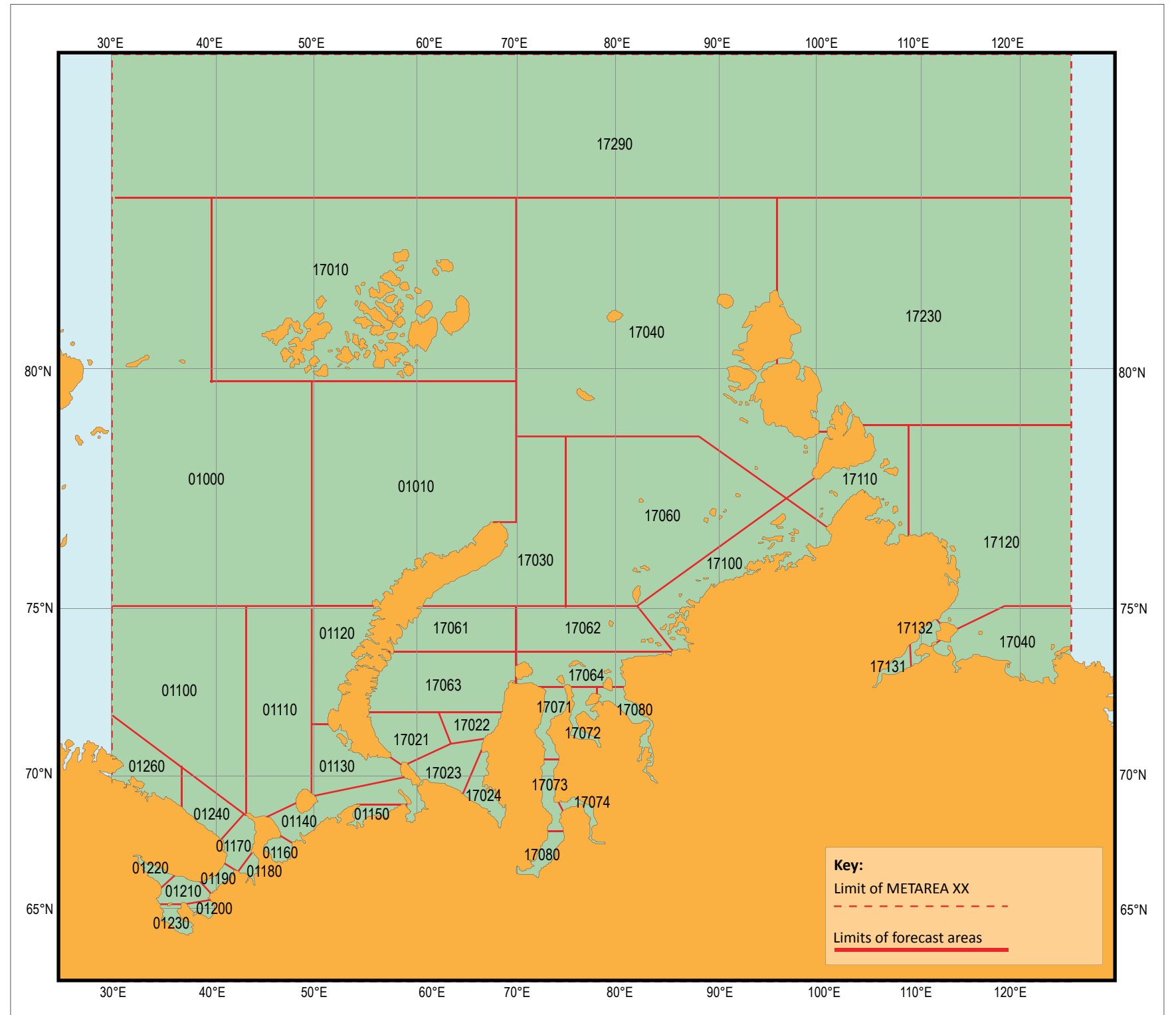
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### METAREA XX

From the border between Norway and Russia (inland) to 69°47'68''N 30°49'16''E, 69°58'48''N 31°6'24''E, 70°22'N 31°43'E, 71°N 30°E; from this coordinate (71°N 30°E) further north along the 30°E meridian to 90°N 30°E, 90°N 125°E, then south to the Russian Federation coastline along the 125°E meridian.

Issuing service: Russian Federation

29 January 2015



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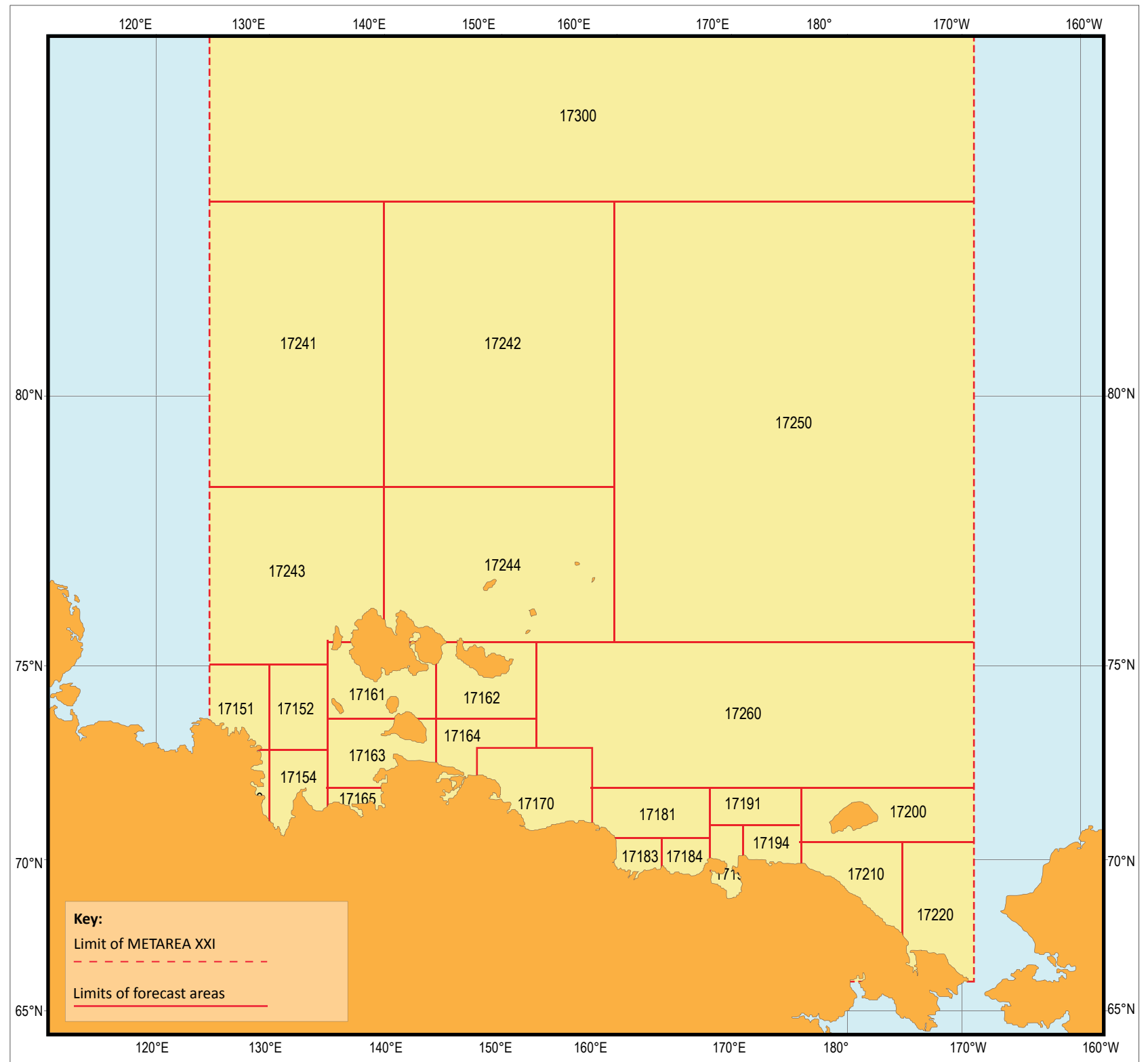


### METAREA XXI

From a position on the Russian Federation coastline at the 125°E meridian northward along the 125°E meridian to 90°N then to 168°58'W, south-ward along the 168°58'W meridian to the 67°N parallel, westward along the 67°N parallel to a position on the Russian Federation coastline.

Issuing service: Russian Federation

29 January 2015



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# **PART B**

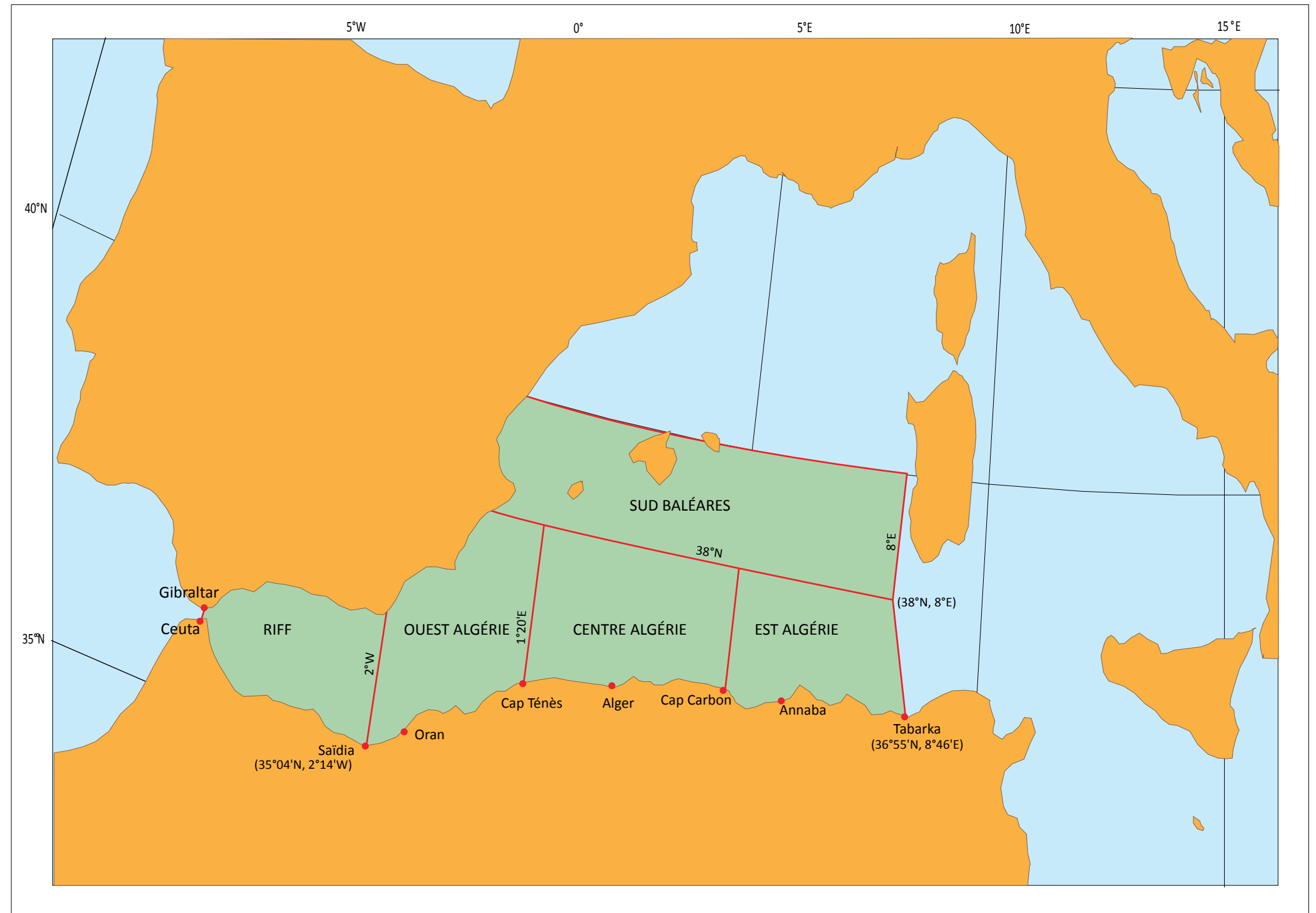
## **RADIO VOICE BROADCASTING USING DIGITAL SELECTIVE CALLING (DSC) SYSTEM**

*DSC sent over VHF, MF and HF marine radio systems*



# ALGERIA

Coastal Forecast Areas



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**ALGERIA****Alger Radio****Position:** 36°44'00"N 003°10'00"E**Call Sign:** 7TA**METAREA:** III**Area Covered:** North Africa and Western Mediterranean.

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	<b>A</b>	161,825 MHz			36°40'N 03°18'E	H24
RT (MF)	<b>B</b>	1 792 kHz			36°40'N 03°18'E	H24

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0730, 2330	<b>A</b>	Weather forecast for shipping for Alboran, Palos, Algiers, Cabrera, Sardinia, Annaba. Weather forecast for Algerian Coasts : Saidia-Cherchel-Algiers-Tabarka Special Marine Weather Bulletin repeated each hour before the beginning of validity, and each 2 hours during validity, and each ½ hour in case of storm or more.	French, English
0903, 1703	<b>B</b>	Weather forecast for shipping for Alboran, Palos, Algiers, Cabrera, Sardinia and Annaba. Weather forecast for Algerian Coasts : Saidia-Cherchel-Algiers-Tabarka Special Marine Weather Bulletin repeated each hour before the beginning of validity, and each 2 hours during validity, and each ½ hour in case of storm or more.	French, English

**ALGERIA****Annaba Radio****Position:** 36°54'00"N 007°45'00"E**Call Sign:** 7TB**METAREA:** III**Area Covered:** North Africa and Western Mediterranean

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	1 911 kHz			36°54'N 7°46'E	H24
VHF	<b>B</b>	161,80 MHz			36°54'N 7°46'E	H24

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0703, 2303	<b>B</b>	Weather forecast for shipping for Alboran, Palos, Algiers, Cabrera, Sardinia, Annaba. Weather forecast for Algerian Coasts : Saidia-Cherchel-Algiers-Tabarka Special Marine Weather Bulletin repeated each hour before the beginning of validity, and each 2 hours during validity, and each ½ hour in case of storm or more.	French, English
0850, 1850	<b>A</b>	Weather forecast for shipping for Alboran, Palos, Algiers, Cabrera, Sardinia, Annaba. Weather forecast for Algerian Coasts : Saidia-Cherchel-Algiers-Tabarka Special Marine Weather Bulletin repeated each hour before the beginning of validity, and each 2 hours during validity, and each ½ hour in case of storm or more.	French, English

**ALGERIA****Bejaia Radio****Position:** 36°45'00"N 005°04'00"E**Call Sign:** 7TG**METAREA:** III**Area Covered:** North Africa and Western Mediterranean

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	161.90 MHz				h24

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0733, 2333	A	Weather forecast for shipping for Alboran, Palos, Algiers, Cabrera, Sardinia, Annaba. Weather forecast for Algerian Coasts : Saidia-Cherchel-Algiers-Tabarka Special Marine Weather Bulletin repeated each hour before the beginning of validity, and each 2 hours during validity, and each ½ hour in case of storm or more.	French, English

**ALGERIA****Ghazouet Radio****Position:** 35°05'38"N 001°51'37"W**Call Sign:** 7TE**METAREA:** III**Area Covered:** North Africa and Western Mediterranean

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	162 MHz				H24

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0703, 2303	A	Weather forecast for shipping for Alboran, Palos, Algiers, Cabrera, Sardinia, Annaba. Weather forecast for Algerian Coast : Saidia-Cherchel-Algiers-Tabarka Special Marine Weather Bulletin repeated each hour before the beginning of validity, and each 2 hours during validity, and each ½ hour in case of storm or more.	French, English



**ALGERIA****Oran Radio****Position:** 35°42'00"N 000°38'00"W**Call Sign:** 7TO**METAREA:** III**Area Covered:** North Africa and Western Mediterranean

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	1 735 kHz			35°46'N 0°33'W	H24
VHF	<b>B</b>	161,85 MHz			35°46'N 0°33'W	H24

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0703, 2303	<b>B</b>	Weather forecast for shipping for Alboran, Palos, Algiers, Cabrera, Sardinia, Annaba. Weather forecast for Algerian Coasts : Saidia-Cherchel-Algiers-Tabarka Special Marine Weather Bulletin repeated each hour before the beginning of validity, and each 2 hours during validity, and each ½ hour in case of storm or more.	French, English
0835, 1835	<b>A</b>	Weather forecast for shipping for Alboran, Palos, Algiers, Cabrera, Sardinia, Annaba. Weather forecast for Algerian Coasts : Saidia-Cherchel-Algiers-Tabarka Special Marine Weather Bulletin repeated each hour before the beginning of validity, and each 2 hours during validity, and each ½ hour in case of storm or more.	French, English

**ALGERIA****Skikda Radio****Position:** 36°52'00"N 006°54'00"E**Call Sign:** 7TS**METAREA:** III**Area Covered:** North Africa and Western Mediterranean

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	161,85 MHz				H24

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0703, 2303	A	Weather forecast for shipping for Alboran, Palos, Algiers, Cabrera, Sardigna, Annaba. Weather forecast for Algerian Coasts : Saidia-Cherchel-Algiers-Tabarka Special Marine Weather Bulletin repeated each hour before the beginning of validity, and each 2 hours during validity, and each ½ hour in case of storm or more.	French, English

**ALGERIA****Tenes Radio****Position:** 36°29'00"N 001°23'00"E**Call Sign:** 7TN**METAREA:** III**Area Covered:** North Africa and Western Mediterranean

Watch hours on Ch70

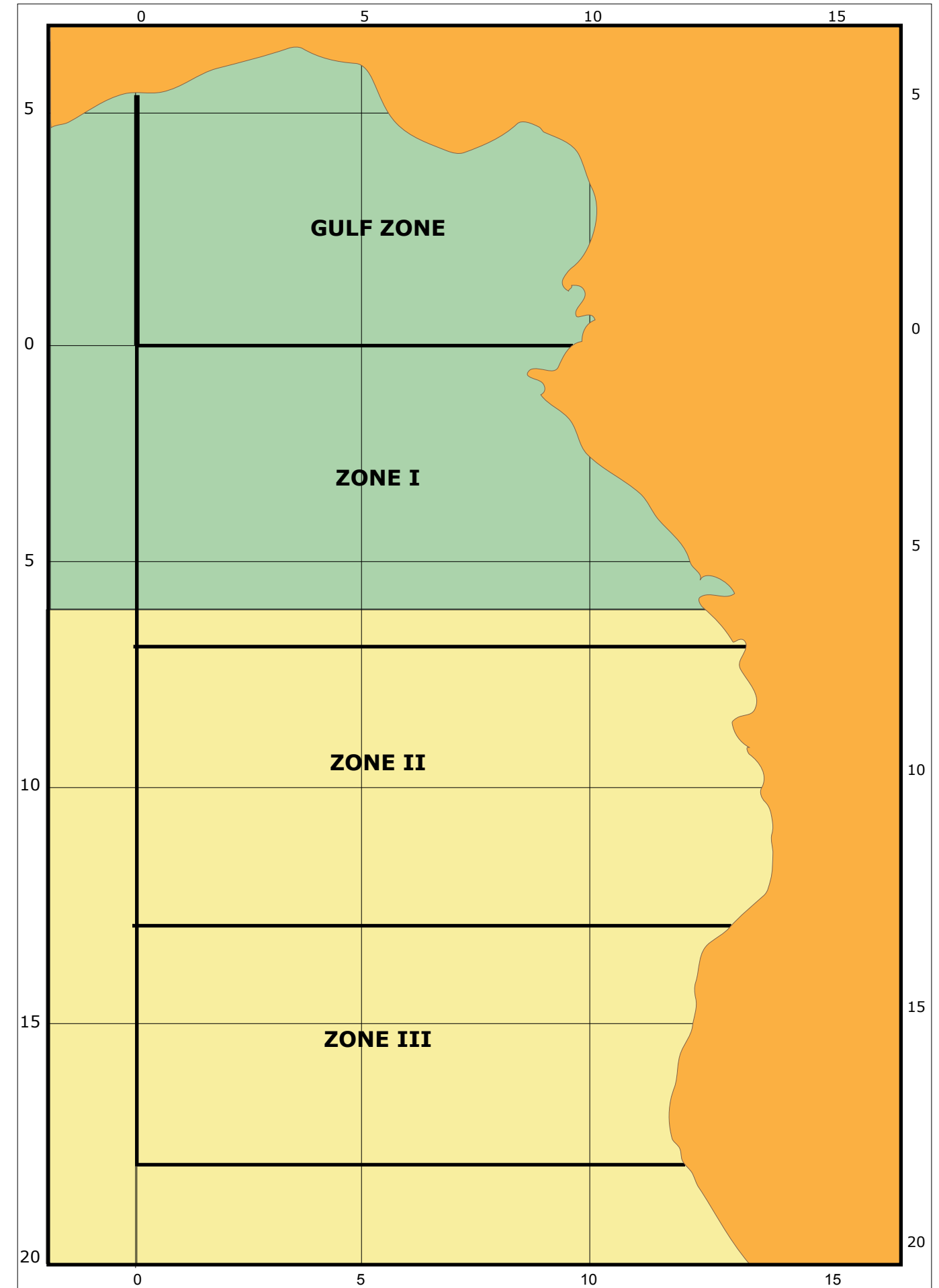
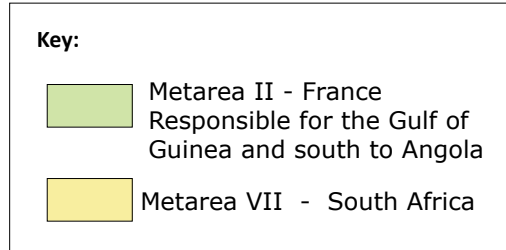
Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	161,80 MHz				H24

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0733, 2333	A	Weather forecast for shipping for Alboran, Palos, Algiers, Cabrera, Sardigna, Annaba. Weather forecast for Algerian Coast : Saidia-Cherchel-Algiers-Tabarka Special Marine Weather Bulletin repeated each hour before the beginning of validity, and each 2 hours during validity, and each ½ hour in case of storm or more.	French, English

# ANGOLA

Forecast Areas

29 January 2015



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**ANGOLA****Luanda****Position:** 08°48'08"S 013°16'49"E**Call Sign:** D3E**METAREA:** VII**Area Covered:** The area in the south Atlantic enclosed by the Greenwich meridian, 18°S and the African coast.

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (HF)	<b>A</b>	8 291.1 kHz				
RT (HF)	<b>A</b>	4 143 kHz				
VHF	<b>B</b>	Ch 24				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0233, 0633, 1033, 1433, 1833, 2233	<b>A, B</b>	Navigational warnings: Navigational warnings: Local warnings.	Portuguese

# ARGENTINA

Weather Forecast Areas

29 January 2015

**Key:**

METAREA VI

Forecast areas

▲ NAVTEX station

**High Seas Forecast - North of 60°S:**

NORTH AREA: From 35°S to 40°S and between 20°W and 55°W  
 CENTRAL EAST AREA: From 40°S to 50°S and between 20°W and 40°W  
 CENTRAL WEST AREA: From 40°S to 50°S and between 40°W and 60°W  
 SOUTH EAST AREA: From 50°S to 60°S and between 20°W and 40°W  
 SOUTH WEST AREA: From 50°S to 60°S and between 40°W and 60°W  
 DRAKE AREA: From 55°S to 60°S and between 60°W and 67°W

**High Seas Forecast - South of 60°S:**

**Oceanic Areas:**

Northern Bellingshausen Sea: 60°S-66°S and 70°W-90°W  
 Southern Bellingshausen Sea: 66°S-73°S and 70°W-90°W  
 Northern Weddell Sea: 60°S-68°S and 20°W-50°W  
 Southern Weddell: 68°S-78°S and 20°W-60°W

**Coastal Areas:**

Zona 1: Drake South (south of 60°S)  
 Zona 2: Mar de la Flota  
 Zona 3: Gerlache Strait  
 Zona 4: Margarita Bay  
 Zona 5: Erebus and Terror Gulf

**Coastal Areas:**

The Atlantic ocean between 36°17'23"S and 55°00'00"S.  
 Coastal area extends 300 nautical miles offshore.

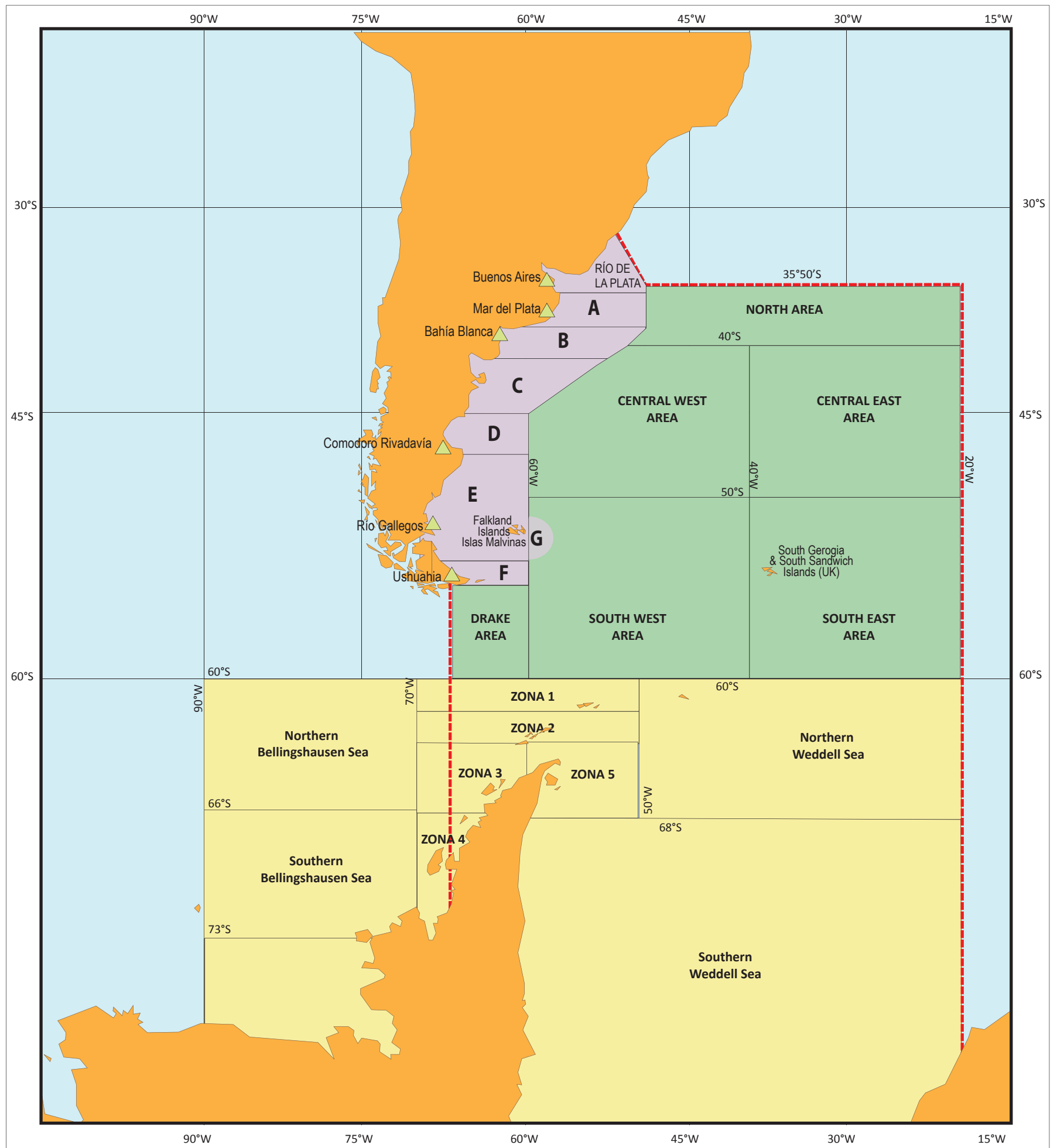
**RIO DE LA PLATA COAST:**

**Interior Coast:**

From the mouths of the Paraná and Uruguay rivers up to an imaginary line joining PUNTA DEL ESTE (Uruguay - 34°58'062"S, 54°57'032"W) and PUNTA RASA DEL CABO SAN ANTONIO (Argentina coast - 36°17'23"S, 56°47'03"W), and the area of the Atlantic Ocean between the two geographical points and 300 nautical miles out to sea.

**Exterior Coast:**

A - Mar del Plata: From 36°17'S to 38°30'S  
 B - Bahía Blanca: From 38°30'S to 41°S  
 C - Peninsula de Valdes: From 41°S to 45°S  
 D - Golfo San Jorge: From 45°S to 48°S  
 E - Patagonia Sur: From 48°S to 54°S  
 F - Fin del Mundo: From 54°S to 55°S  
 G - Zona Malvinas



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**ARGENTINA****Bahía Blanca (PREFECTURA NAVAL)****Position:** 38°49'26"S 062°15'02"W**Call Sign:** L2N**METAREA:** VI**Area Covered:** South Atlantic - Atlantic area of Argentina from Claromecó to the mouth of the Río Negro (Zone III)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
FM	<b>A</b>	Ch 15				
	<b>B</b>	156.75 MHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0010, 0410	<b>A</b>	Navigational warnings: Local navigational warnings.	Spanish
0810, 1210	<b>B</b>	Navigational warnings: Local navigational warnings.	Spanish, English
1610, 2010	<b>B</b>	Navigational warnings: Local navigational warnings.	Spanish

**ARGENTINA****Buenos Aires (PREFECTURA NAVAL)****Position:** 34°34'75"S 058°21'17"W**Call Sign:** L2B, L2G**METAREA:** VI**Area Covered:** South Atlantic

Area I: Covers the Río de la Plata, from the mouths of the Paraná and Uruguay rivers up to an imaginary line joining PUNTA DEL ESTE (Uruguay 34°58'10"S, 54°57'05"W) and PUNTA RASA DEL CABO SAN ANTONIO (Argentina 36°17'38"S, 56°47'05"W), and the area of the Atlantic ocean between the two geographical points and 300 n miles out to sea.

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
FM	<b>A</b>	4 210 kHz				
FM	<b>B</b>	8 416.5 kHz				
FM	<b>C</b>	12 579 kHz				
FM	<b>D</b>	16 806.5 kHz				
VHF	<b>E</b>	161.50 MHz				
VHF	<b>F</b>	156.75 MHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0010	<b>F</b>	Navigational warnings.	Spanish
0410	<b>E</b>	Navigational warnings.	Spanish
0810, 1210	<b>E</b>	Navigational warnings.	Spanish, English
1000, 1900	<b>A-C</b>	Navigational warnings.	Spanish, English
1610, 2010	<b>E</b>	Navigational warnings.	Spanish
1900	<b>D</b>	Navigational warnings.	Spanish



**ARGENTINA****Comodoro Rivadavia (PREFECTURA NAVAL)****Position:** 45°51'00"S 067°25'00"W**Call Sign:** L2W, L3A, L3B**METAREA:** VI**Area Covered:** South Atlantic

Area I: Covers the Río de la Plata, from the mouths of the Paraná and Uruguay rivers up to an imaginary line joining PUNTA DEL ESTE (Uruguay 34°58'10"S, 54°57'05"W) and PUNTA RASA DEL CABO SAN ANTONIO (Argentina 36°17'38"S, 56°47'05"W), and the area of the Atlantic ocean between the two geographical points and 300 n miles out to sea.

Area II: The Atlantic Ocean between 36°17'38"S, and 55°00'00"S.

Zone III: the Falkland Islands (Islas Malvinas)

24-hour watch

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	2 065 kHz				
RT (HF)	<b>B</b>	4 149 kHz				
RT (HF)	<b>C</b>	8 294 kHz				
VHF	<b>D</b>	Ch 15				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0350, 0750, 1050, 1650, 2250	<b>D</b>	Navigational warnings.	Spanish
0440	<b>A</b>	Navigational warnings.	Spanish
1740	<b>B, C</b>	Navigational warnings.	Spanish, English

**ARGENTINA****Delta (PREFECTURA NAVAL)****Position:** 34°11'58"S 058°50'45"W**Call Sign:** L90**METAREA:** VI**Area Covered:**

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
	A	161.775 MHz				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
H24, 00, 15, 30, 45	A	Navigational warnings.	Spanish, English

**ARGENTINA****Mar del Plata (PREFECTURA NAVAL)****Position:** 38°03'00"S 057°32'00"W**Call Sign:** L2T, L2U**METAREA:** VI**Area Covered:** South Atlantic - Atlantic area of Argentina between 36°S and the mouth of Río Negro (Zones II and III) (see map)

24-hour watch

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	2 065 kHz				L2T
RT (HF)	<b>B</b>	4 149 kHz				L2T
RT (HF)	<b>C</b>	8 294 kHz				L2T
	<b>D</b>	156.75 MHz	L2U			

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0230, 0530, 1130, 1130, 1730, 2330	<b>D</b>	Navigational warnings.	Spanish, English
0310, 1610	<b>A-C</b>	Navigational warnings.	Spanish

**ARGENTINA****Puerto Madryn (PREFECTURA NAVAL)****Position:** 42°45'36"S 065°02'28"W**Call Sign:** L4S**METAREA:** VI**Area Covered:** Area II - the Atlantic Ocean between 36°17'38"S, and 55°00'00"S

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 15				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0010, 0410, 0810, 1210, 1610, 2010	A	Navigational warnings.	Spanish

**ARGENTINA****Quequén (PREFECTURA NAVAL)****Position:** 38°34'27"S 058°42'07"W**Call Sign:** L5B**METAREA:** VI**Area Covered:** Area II - the Atlantic Ocean between 36°17'38"S, and 55°00'00"S

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 15				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0010, 0410, 0810, 1210, 1610, 2010	A	Navigational warnings.	Spanish

**ARGENTINA****Rawson (PREFECTURA NAVAL)****Position:** 43°19'44"S 065°03'26"W**Call Sign:** L4R**METAREA:** VI**Area Covered:**

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 15				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0010, 0410, 0810, 1210, 1610, 2010	A	Navigational warnings.	Spanish, English

**ARGENTINA****Recalada Río de la Plata (PREFECTURA NAVAL)****Position:** 34°35'31"S 058°05'24"W**Call Sign:** L3Z**METAREA:** VI**Area Covered:** Area II - the Atlantic Ocean between 36°17'38"S, and 55°00'00"S

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 15				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0040, 0440, 0840, 1240, 1640, 2040	A	Navigational warnings.	Spanish

**ARGENTINA****Rio Gallegos (PREFECTURA NAVAL)****Position:** 51°37'00"S 069°03'29"W**Call Sign:** L3I**METAREA:** VI**Area Covered:** South Atlantic - Area II - the Atlantic Ocean between 36°17'38"S, and 55°00'00"S

24-hour watch

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 15				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0010, 0410, 0810, 1210, 1610, 2010	A	Local weather bulletin. Navigational warnings: Local navigational warnings and water level reports.	Spanish



**ARGENTINA**

**San Antonio Oeste (PREFECTURA NAVAL)**

**Position:** 40°48'08"S 064°52'73"W

**Call Sign:** L4W

**METAREA:** VI

**Area Covered:**

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 15				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0010, 0410, 0810, 1210, 1610, 2010	A	Navigational warnings.	Spanish

**ARGENTINA****Ushuaia (PREFECTURA NAVAL)****Position:** 54°47'63"S 068°18'39"W**Call Sign:** L3P**METAREA:** VI**Area Covered:** South Atlantic - Atlantic area of Argentina from Faro Cabo Guardián to Ushuaia  
24-hour watch

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 15				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0010, 0410, 0810, 1210, 1610, 2010	A		

**ASCENSION ISLAND****RAF VOLMET****Position:** 51°40'90"N 000°48'00"W**Call Sign:** --**METAREA:** VII**Area Covered:**

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	<b>A</b>	5 450 kHz		Ascension Island	07°58'S 14°24'W	
RT (HF)	<b>B</b>	11 253 kHz		Ascension Island	07°58'S 14°24'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
Every H+19, H+49	<b>A</b>	Weather bulletins.	
Every H+19, H+49	<b>A, B</b>	Volmet is a meteorological service provided for aviation which continuously broadcasts reports of actual weather conditions and / or weather forecasts for selected airfields on HF SSB. The information given consists of: airport name, wind direction and speed, visibility, cloud amount and height, air temperature and dew point temperature, sea level pressure and any significant weather. If no updated weather report arrives within one hour of the last report the a 'NO REPORT' is transmitted.	

# AUSTRALIA

Ocean Wind Warning areas

7 February 2019

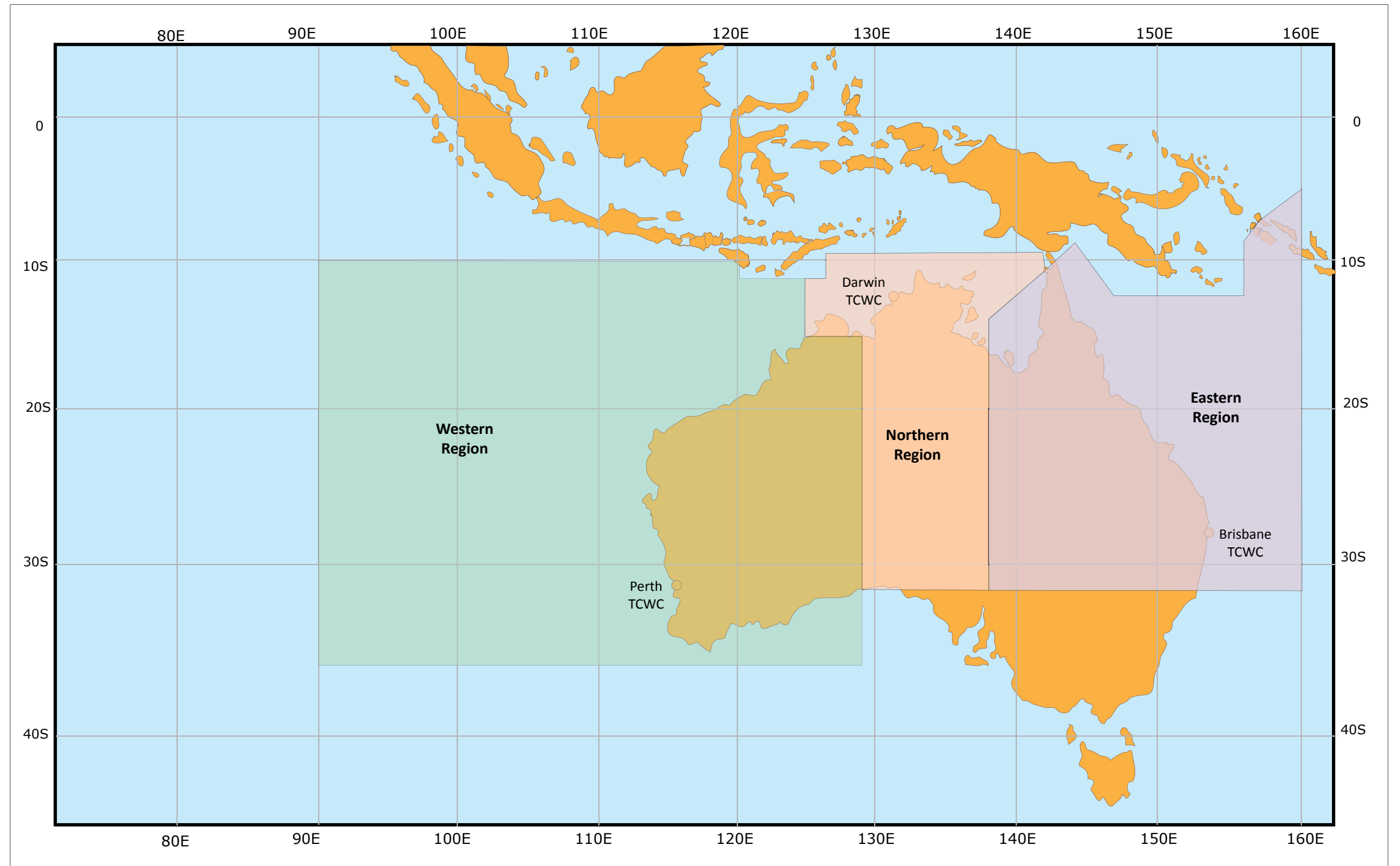


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# AUSTRALIA

Tropical Cyclone Service areas

15 January 2015

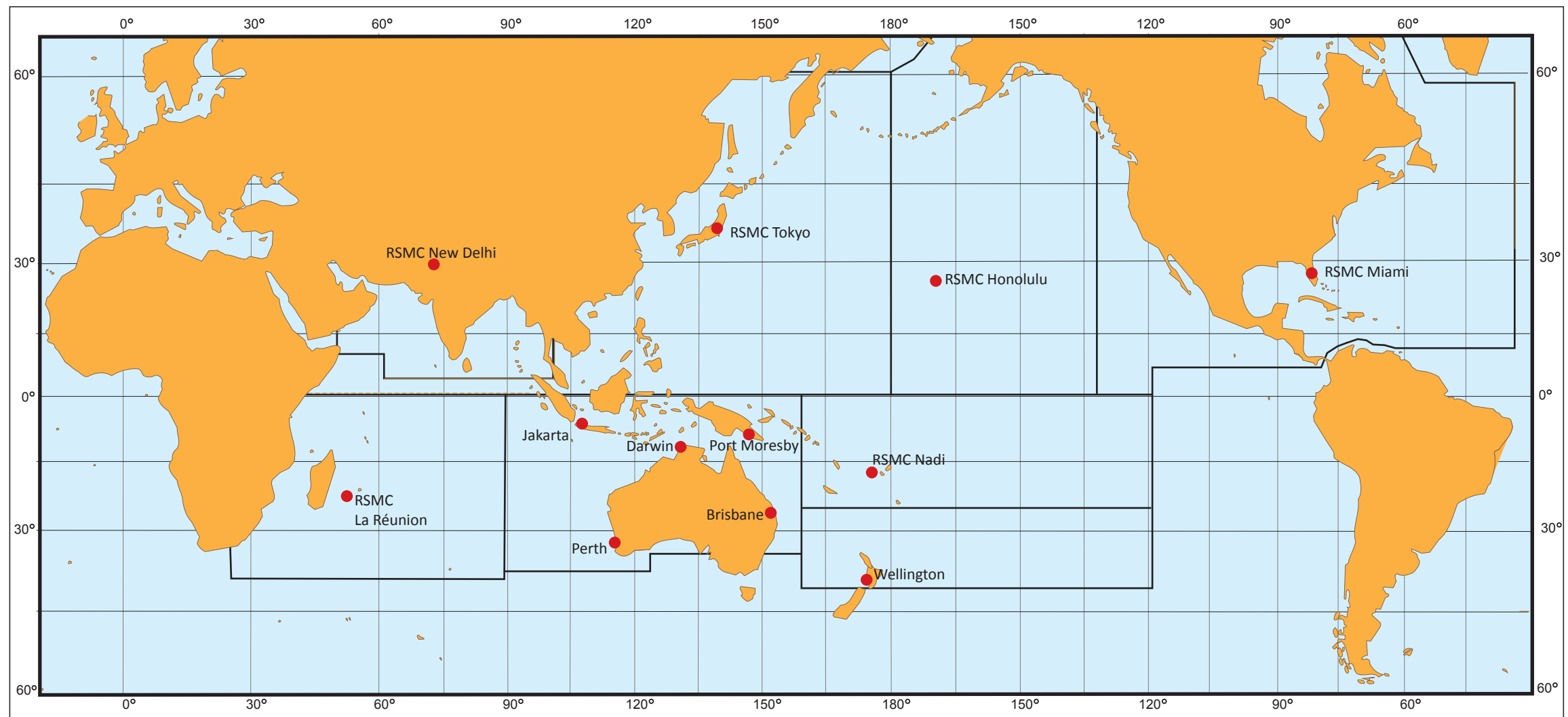


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# AUSTRALIA

Global Cyclone Warning Centres

15 January 2015



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**AUSTRALIA****Charleville (Queensland)****Position:** 26°19'00"S 146°16'00"E**Call Sign:** VMC**METAREA:** X**Area Covered:** Northern, North Eastern, South Eastern and Southern high seas areas. Coastal waters zones for Queensland, New South Wales, Victoria and Tasmania.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	<b>A</b>	2 201 kHz(3)				
RT (HF)	<b>B</b>	4 426 kHz(4)				
RT (HF)	<b>C</b>	6 507 kHz(3)				
RT (HF)	<b>D</b>	8 176 kHz				
RT (HF)	<b>E</b>	12 365 kHz				
RT (HF)	<b>F</b>	16 546 kHz(4)				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
Every 4 hours on the half hour (2)	<b>A-F</b>	Forecasts and coastal weather observations.	English
Hourly (1)	<b>A-F</b>	Strong wind/gale/storm/hurricane warnings.	English

NOTE:  
 VMC broadcasts on four frequencies simultaneously, refer to footnotes (3) and (4).  
 Web link: <http://www.bom.gov.au/marine/radio-sat/marine-radio-sat.shtml>

- (1) Warnings are broadcast on the hour every hour.
- (2) Forecasts and coastal reports are broadcast on the half hour for the areas above using a program which is repeated every 4 hours.
- (3) Frequency used during night hours only (6pm-7am Eastern Standard Time).
- (4) Frequency used during day hours only (7am-6pm Eastern Standard Time).

**AUSTRALIA****Wiluna (Western Australia)****Position:** 26°21'00"S 120°34'00"E**Call Sign:** VMW**METAREA:** X**Area Covered:** Northern, Western and Southern high seas areas. Coastal waters zones for Queensland Gulf, South Australia, Western Australia and Northern Territory.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	<b>A</b>	2 056 kHz(3)				
RT (HF)	<b>B</b>	4 149 kHz(4)				
RT (HF)	<b>C</b>	6 230 kHz(3)				
RT (HF)	<b>D</b>	8 113 kHz				
RT (HF)	<b>E</b>	12 362 kHz				
RT (HF)	<b>F</b>	16 528 kHz(4)				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
Every 4 hours on the half hour (2)	<b>B-F</b>	Forecasts and coastal weather observations.	English
Hourly (1)	<b>A</b>	Strong wind/gale/storm/hurricane warnings.	English

NOTE:  
 VMW broadcasts on four frequencies simultaneously, refer to footnotes (3) and (4).  
 Web link: <http://www.bom.gov.au/marine/radio-sat/marine-radio-sat.shtml>

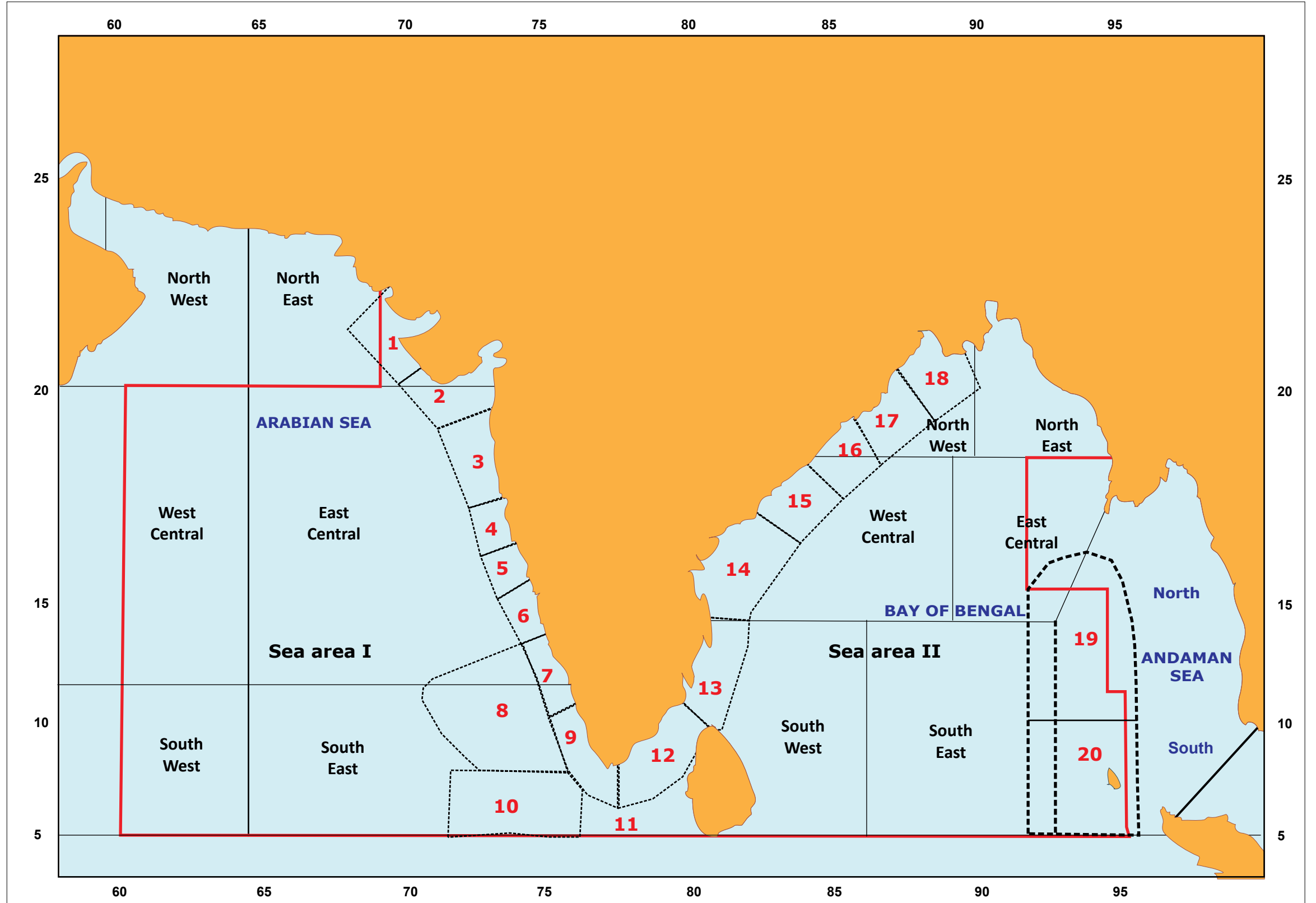
- (1) Warnings are broadcast on the hour every hour.
- (2) Forecasts and coastal reports are broadcast on the half hour for the areas above using a program which is repeated every 4 hours.
- (3) Frequency used during night hours only (6pm-7am Eastern Standard Time).
- (4) Frequency used during day hours only (7am-6pm Eastern Standard Time).



# BANGLADESH

Forecast Areas

- KEY:**
- 1 North Gujarat
  - 2 South Gujarat
  - 3 North Maharashtra
  - 4 South Maharashtra
  - 5 Goa
  - 6 Karnataka
  - 7 North Kerala
  - 8 Lakshadweep
  - 9 South Kerala
  - 10 Maldiv
  - 11 Comorin
  - 12 South Tamilnadu
  - 13 NorthTamilnadu
  - 14 South Andhra
  - 15 North Andhra
  - 16 South Orissa
  - 17 North Orissa
  - 18 West Bengal
  - 19 Andaman Is.
  - 20 Nicobar Is.



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**BANGLADESH****Chittagong****Position:** 22°13'00"N 091°48'00"E**Call Sign:** S3D**METAREA:** VIII(N)**Area Covered:** Sea area in the Bay of Bengal north of latitude 18°N.

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 182 kHz			22°20'N 92°00'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0050	A	Issued in the event of disturbed weather or when a depression has formed for N Bay of Bengal, (NW and NE).	English
0450, 1250, 2050	A	Storm warnings on development of a cyclonic storm for N Bay of Bengal (NW and NE) General inference.	English
0850, 1650	A	General inference, forecast for N Bay of Bengal, (NW and NE).	English
On receipt	A	Storm warnings issued in the event of the unexpected development of a cyclonic storm for N Bay of Bengal, (NW and NE).	English

**BARBADOS****Barbados Coast Guard (MRSC)****Position:** 13°05'00"N 59°37'00"W**Call Sign:** 8PO**METAREA:** IV**Area Covered:**

24-hour watch

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 16 26				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
On receipt 0050, 1250, 1650, 2050	A	Storm warnings for Caribbean Sea, Antilles and adjacent Atlantic waters.	English

**BELGIUM****Antwerpen Radio****Position:** 51°13'00"N 004°19'00"E**Call Sign:** OSW**METAREA:** I**Area Covered:** Maritime portion of the Schelde

Ch70 (VHF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 24			51°13'N 4°19'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt Every odd H+05	A	Storm warnings for the Schelde.	English, Dutch
On receipt H+03, H+48	A	Strong wind warnings for small craft when wind speed is expected to reach Beaufort Force 6 for the Schelde. Navigational warnings: For the Schelde.	English, Dutch

**BELGIUM****Oostende Radio****Position:** 51°20'04"N 003°12'00"E**Call Sign:** OST**METAREA:** I**Area Covered:** N.Sea/Gulf of Bothania/Finland - Coasts of Belgium and those of Sea Areas Thames and Dover

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	2 761 kHz			51°11'N 2°48'E	
VHF	<b>B</b>	Ch 27			51°11'N 2°48'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0103, 0503, 0903, 1303, 1703, 2103	<b>A,B</b>	Storm warnings: Strong breeze warnings for Dover, Thames. Navigational warnings: Ice reports in English for Netherlands Areas Group GG.	English, Dutch
0233, 0633, 1033, 1433, 1833, 2233	<b>A</b>		English, Dutch
0820, 1720	<b>A,B</b>	Strong wind warnings and forecast for Dover, Thames.	English, Dutch
On receipt	<b>A,B</b>	Storm warnings and strong wind warnings for areas Dover, Thames.	English, Dutch

**BENIN****Cotonou****Position:** 06°28'00"N 002°20'00"E**Call Sign:** TYA**METAREA:** II**Area Covered:** Cotonou roads

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF reception)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 813 kHz			6°28'N 2°21'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0818, 1218, 1718	A	Navigational warnings: For Coastal waters of Benin.	French
1003, 1603	A	Forecasts for Cotonou Roads.	French

**BERMUDA****Bermuda Harbour****Position:** 32°23'00"N 064°41'00"W**Call Sign:** ZBM**METAREA:** IV**Area Covered:** Carribean Sea - Bermuda local area and Western North Atlantic area

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	<b>A</b>	Ch 27(1)				
RT (MF)	<b>A</b>	2 582 kHz(1)				
VHF	<b>B</b>	Ch WX2				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0035, 0435, 0835, 1235, 1635, 2035	<b>A</b>	Latest urgent weather and local Bermuda area forecast. Tropical weather advisories for 18°N to 42°N and 50°W to 80°W (1 June to 30 November). Navigational warnings: Local inshore and offshore warnings.	
Continuous broadcast	<b>B</b>	Recorded voice, weather information for the coastal waters around Bermuda and US National Hurricane Center Tropical Advisories and Tropical Weather Outlook (1 June to 30 November). Broadcasts are repeated every 4-6 minutes and recordings are updated at 0000, 0600 and 1200 and 1800 LT as required.	

**NOTE:**

Available on request - Latest US National Weather Service High Seas forecast for METAREA IV, N of 7°N to 67°N and W of 35°W and US NWS.

(1) After announcement on VHF Ch 116 and RT (MF) 2 182 kHz.

**BRAZIL****Belém****Position:** 01°24'32"S 048°26'29"W**Call Sign:** PPL**METAREA:** V**Area Covered:** Atlantic waters west of 35°W from 3°N to the Equator, and west of 20°W from the Equator to 33°S.

Watch hours on Ch70

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0103, 0603, 1003, 1203, 1503, 2103	<b>A</b>	Synopsis, forecast for approaches to Belém. Navigational warnings: NAVAREA V warnings. Coastal warnings and local warnings for the Brazilian coast north west of Parnaíba (in Portuguese only).	Portuguese, English

## Note:

The Centro de Hidrografia Marinha provides a Weather Bulletin for Shipping in Portuguese and English on their website at: [www.mar.mil.br/dhn/chm/meteo/inst/indexing.htm](http://www.mar.mil.br/dhn/chm/meteo/inst/indexing.htm)



**BRAZIL****Junção****Position:** 32°03'49"S 052°08'37"W**Call Sign:** PPJ**METAREA:** V**Area Covered:** Atlantic waters west of 35°W from 3°N to the Equator, and west of 20°W from the Equator to 33°S.

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	4 381 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0103, 0603, 1003, 1203, 1503, 2103	A	Synopsis and forecast for the approaches to Recife and Salvador. Navigational warnings: NAVAREA V warnings. Coastal warnings and local warnings for the Brazilian coast from Porto de Ilhéus to Parnaíba (in Portuguese only).	Portuguese, English

## Note:

The Centro de Hidrografia Marinha provides a Weather Bulletin for Shipping in Portuguese and English on their website at: [www.mar.mil.br/dhn/chm/meteo/inst/indexing.htm](http://www.mar.mil.br/dhn/chm/meteo/inst/indexing.htm)

**BRAZIL****Olinda****Position:** 08°03'06"S 034°53'45"W**Call Sign:** --**METAREA:** V**Area Covered:** Atlantic waters west of 35°W from 3°N to the Equator, and west of 20°W from the Equator to 33°S.

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	4 369 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0103, 0603, 1003, 1203, 1503, 2103	A	Synopsis and forecast for the approaches to Recife and Salvador. Navigational warnings: NAVAREA V warnings. Coastal warnings and local warnings ifor the Brazilian coast from Porto de Ilhéus to Parnaíba (in Portuguese only).	Portuguese, English

## Note:

The Centro de Hidrografia Marinha provides a Weather Bulletin for Shipping in Portuguese and English on their website at: [www.mar.mil.br/dhn/chm/meteo/inst/indexing.htm](http://www.mar.mil.br/dhn/chm/meteo/inst/indexing.htm)

**BRAZIL****Ponta do Céu****Position:** --**Call Sign:** --**METAREA:** V**Area Covered:** Atlantic waters west of 35°W from 3°N to the Equator, and west of 20°W from the Equator to 33°S.

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 16				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0000, 1200, 1800 On request	A	Navigational warnings: Local navigational wwarnings for Río Amazonas.	

**Note:**The Centro de Hidrografia Marinha provides a Weather Bulletin for Shipping in Portuguese and English on their website at: [www.mar.mil.br/dhn/chm/meteo/inst/indexing.htm](http://www.mar.mil.br/dhn/chm/meteo/inst/indexing.htm)

**BRAZIL****Río****Position:** 22°58'00"S 043°40'00"W**Call Sign:** PPR**METAREA:** V**Area Covered:** Atlantic waters west of 35°W from 3°N to the Equator, and west of 20°W from the Equator to 33°S.

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	13 137 kHz				H24
RT (HF)	A	4 381 kHz				H24
RT (HF)	A	4 402 kHz				H24
RT (HF)	A	4 411 kHz				H24
RT (HF)	A	4 417 kHz				H24
RT (HF)	A	8 773 kHz				H24
RT (HF)	A	8 779 kHz				H24
RT (HF)	A	8 782 kHz				H24
RT (HF)	A	8 800 kHz				H24
RT (HF)	A	8 806 kHz				H24
RT (HF)	A	4 366 kHz				H24
RT (HF)	A	13 131 kHz				H24
RT (HF)	A	17 272 kHz				H24
RT (HF)	A	17 278 kHz				H24
RT (HF)	A	17 302 kHz				H24
RT (HF)	A	17 386 kHz				H24
RT (HF)	A	22 756 kHz				H24
RT (HF)	A	22 807 kHz				H24
RT (HF)	A	22 822 kHz				H24
RT (HF)	A	22 831 kHz				H24
RT (HF)	A	22 843 kHz				H24
RT (HF)	A	22 846 kHz				H24
RT (HF)	A	13 116 kHz				H24
VHF	B	Ch 06 08 16 23 24				H24

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt	A, B	Severe weather warnings.	Portuguese, English
On request	A, B	Synopsis and forecast for all Areas. Navigational warnings: Coastal warnings. Local warnings for the Brazilian coast (in Portuguese only).	Portuguese, English

## **BRAZIL**

Note:

The Centro de Hidrografia Marinha provides a Weather Bulletin for Shipping in Portuguese and English on their website at: [www.mar.mil.br/dhn/chm/meteo/inst/indexing.htm](http://www.mar.mil.br/dhn/chm/meteo/inst/indexing.htm)

**BRAZIL****Rio de Janeiro Naval****Position:** 22°56'00"S 043°20'00"W**Call Sign:** PWZ33**METAREA:** V**Area Covered:** Atlantic waters west of 35°W from 3°N to the Equator, and west of 20°W from the Equator to 33°S.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
Radio-data (J2D)	<b>A</b>	16 974 kHz				
Radio-data (J2D)	<b>A</b>	12 709 kHz				
Radio-data (J2D)	<b>A</b>	8 580 kHz				
Radio-data (J2D)	<b>A</b>	6 448 kHz				
Radio-data (J2D)	<b>A</b>	4 266 kHz(1)				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0230	<b>A</b>	Weather bulletins.	
1430	<b>A</b>	Navigational warnings: NAVAREA V warnings. Coastal warnings. Local warnings in Portuguese only.	Portuguese, English

**Note:**The Centro de Hidrografia Marinha provides a Weather Bulletin for Shipping in Portuguese and English on their website at: [www.mar.mil.br/dhn/chm/meteo/inst/indexing.htm](http://www.mar.mil.br/dhn/chm/meteo/inst/indexing.htm)

(1) On request.

**BULGARIA****Varna Radio****Position:** 43°15'84"N 027°57'60"E**Call Sign:** LZW**METAREA:** III**Area Covered:** Mediterranean Sea/Black Sea - Coastal waters of Bulgaria and region of Black Sea

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	3 740 kHz (1)			43°04'N 27°46'E	
VHF	<b>B</b>	Ch 26 (3)		Varna	43°15'N 27°57'E	
VHF	<b>B</b>	Ch 26 (3)		Peak Kitka	42°18'N 27°45'E	
VHF	<b>B</b>	Ch 26 (3)		Cape Kaliakra	42°43'N 27°52'E	
VHF	<b>B</b>	Ch 26 (3)		Cape Emine	42°43'N 27°52'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0703, 1903	<b>A</b>	Storm warnings, weather summary, 12 hour forecast for coastal waters of Bulgaria and central western region of Black Sea, Area 2. Navigational warnings: For central part of western region of Black Sea, Area 2.	
0733, 1933	<b>B</b>	Storm warnings, weather summary, 12 hour forecast for coastal waters of Bulgaria and central western region of Black Sea, Area 2. In Bulgarian and English. Navigational warnings: For central part of western region of Black Sea, Area 2.	
1303	<b>A</b>	Observations from stations at Shabla, Cap Kaliakra, Varna, Cap Emine, Bourgas and Ahtopol.	Bulgarian, English
1333	<b>B</b>	Observations from stations at Shabla, Cap Kaliakra, Varna, Cap Emine, Bourgas and Ahtopol.	
On receipt	<b>A,B</b>	Storm and gale warnings. Navigational warnings: For central part of western region of Black Sea, Area 2.	Bulgarian, English

(1) After prior announcement on DSC 2187.5 kHz.

(2) After prior announcement on DSC 4207.5 kHz.

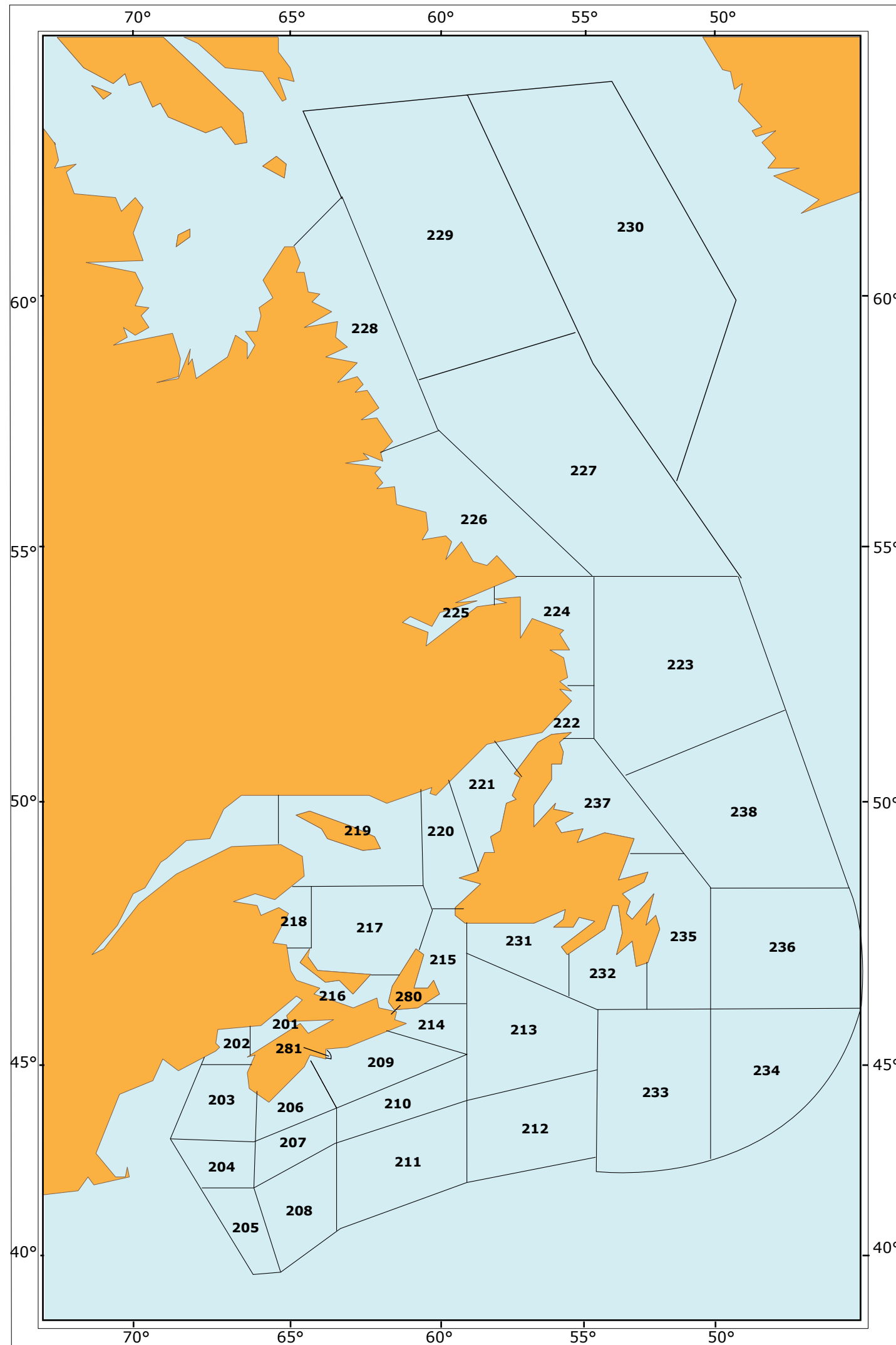
(3) After prior announcement on DSC CH 70 and Ch 16.

# CANADA

## Atlantic Coast Forecast Areas

### KEY

- 201 Fundy
- 202 Grand Manan
- 203 Lurcher
- 204 Brown's Bank
- 205 George's Bank
- 206 Southwestern Shore
- 207 LaHave Bank
- 208 West Scotian Slope
- 209 Eastern Shore
- 210 Sable
- 211 East Scotian Slope
- 212 Laurentian Fan
- 213 Banquereau
- 214 Laurentian Fan
- 215 Cabot Strait
- 216 Northumberland Strait
- 217 Gulf-Magdalen
- 218 Chaleur-Miscou
- 219 Anticosti
- 220 Gulf Port au Port
- 221 Northeast Gulf
- 222 Belle Isle
- 223 Belle Isle Bank
- 224 South Labrador Coast
- 225 Lake Melville
- 226 Mid Labrador Coast
- 227 South Labrador Sea
- 228 North Labrador Coast
- 229 Northwest Labrador Sea
- 230 East Labrador Sea
- 231 Southwest Coast
- 232 South Coast
- 233 Southwestern Grand Banks
- 234 Southeastern Grand Banks
- 235 East Coast
- 236 Northern Grand Banks
- 237 Northeast Coast
- 238 Funk Island Bank
- 280 Bras d'Or Lakes
- 281 Halifax Harbour & Apr.



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# CANADA

## Hudson Bay and Approaches

19 March 2015

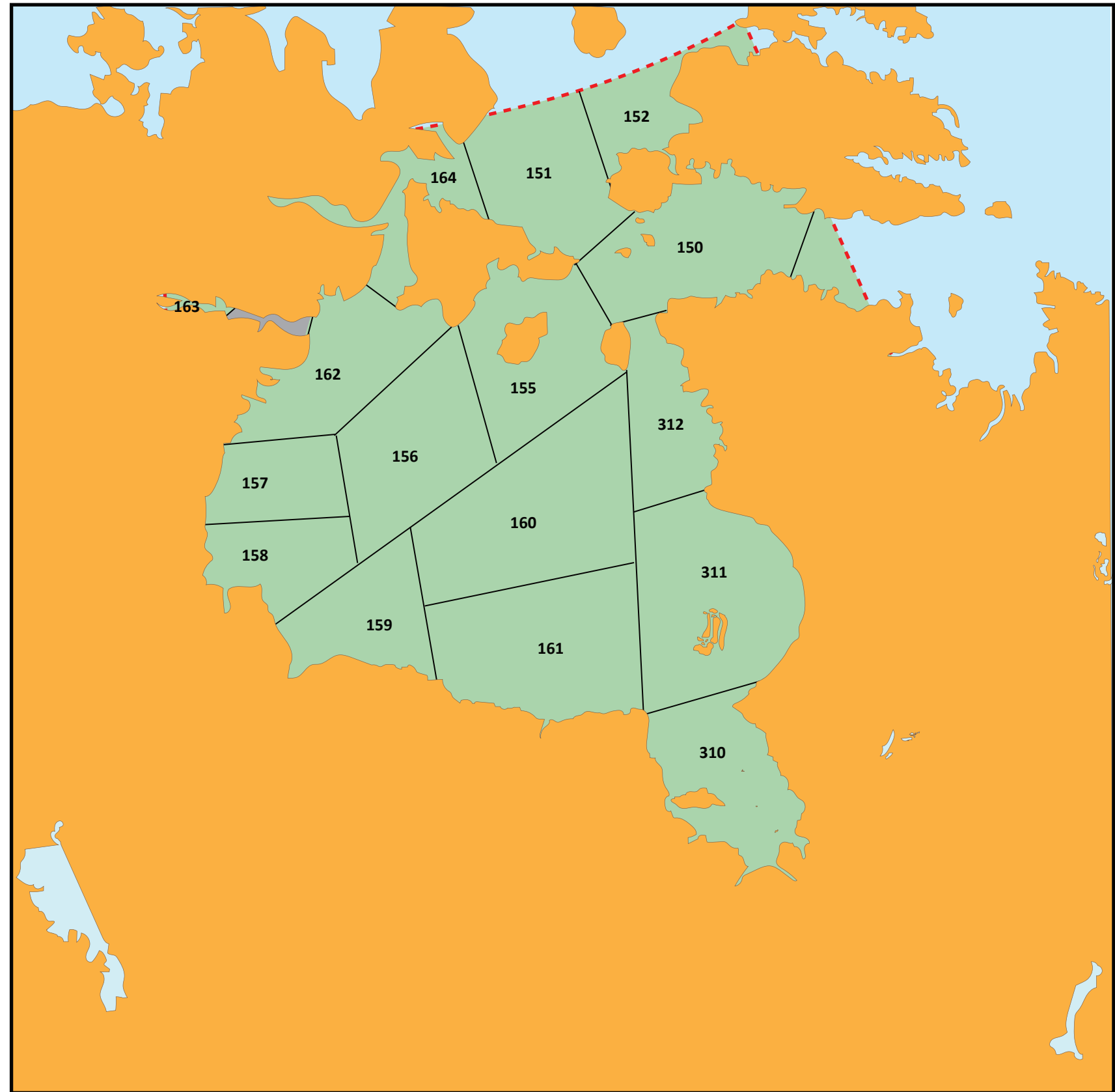
**Key:**

Limit of METAREA IV

Limits of forecast areas

**Namelist of subareas:**

ID	Area Name
150	Nottingham
151	West Foxe
152	East Foxe
155	Coats
156	Central
157	Arviat
158	Churchill
159	York
160	South-central Hudson
161	South Hudson
162	Rankin
163	Baker
164	Roes Welcome
310	James Bay
311	Belcher
312	Puvirnituk

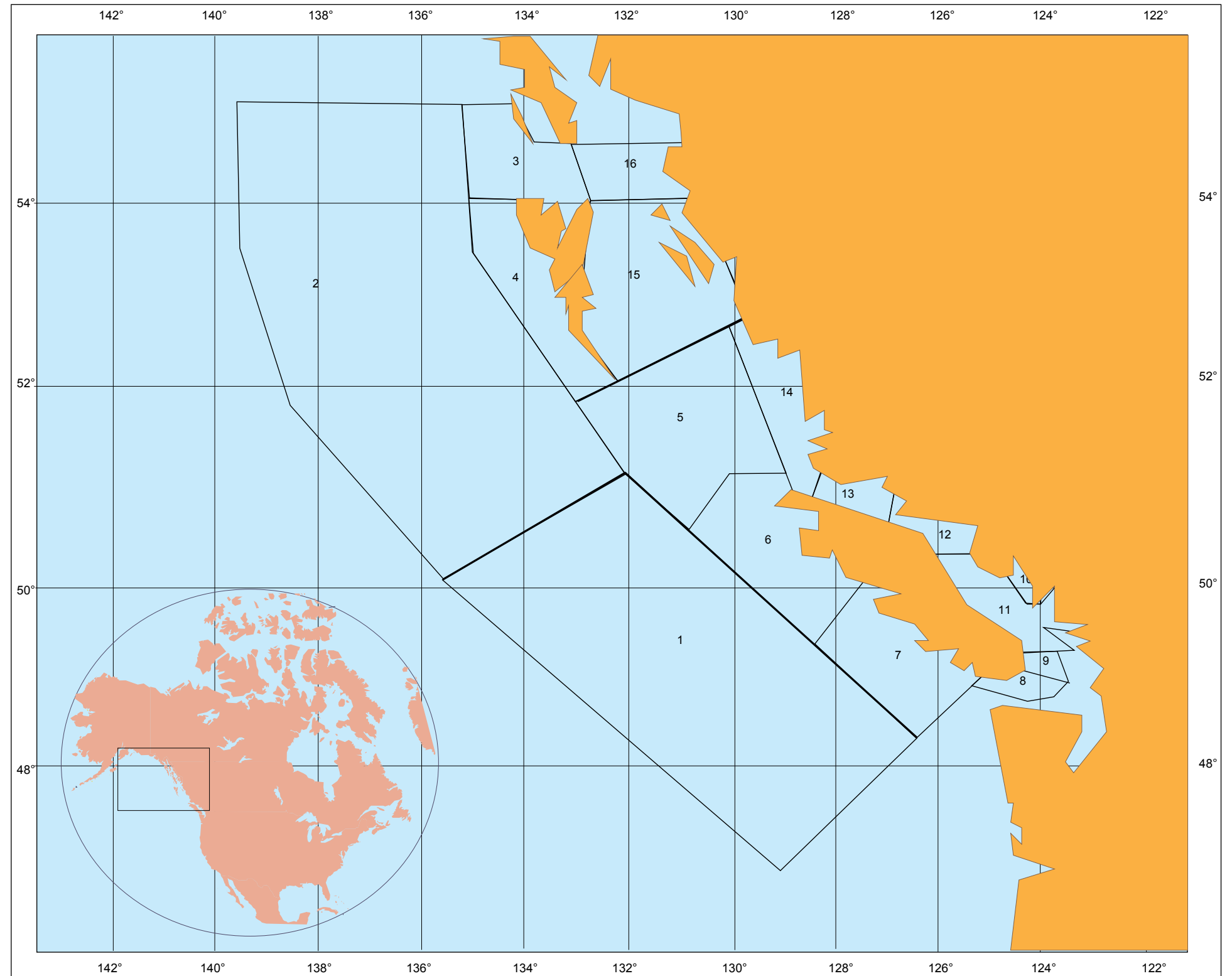


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# CANADA

Pacific coast forecast areas

- Key:**  
**Namelist of subareas:**
- 1 Explorer
  - 2 Bowie
  - 3 Dixon Entrance (West)
  - 4 West Coast Charlottes
  - 5 Queen Charlotte Sound
  - 6 West Coast Vancouver Island (North)
  - 7 West Coast Vancouver Island (South)
  - 8 Juan de Fuca Strait
  - 9 Haro Strait
  - 10 Howe Sound
  - 11 Strait of Georgia
  - 12 Johnson Strait
  - 13 Queen Charlotte Strait
  - 14 Central Coast
  - 15 Hecate Strait
  - 16 Dixon Entrance (East)
  - 17 Douglas Channel



The designations employed and the presentation of material in this publication do not imply the expression of any opinion whatsoever on the part of the Secretariat of WMO concerning the legal status of any country, territory, city or area, or of its authorities, or concerning the delimitation of its frontiers or boundaries.

**CANADA****Halifax, Nova Scotia (MCTS)****Position:** 44°28'21"N 063°37'13"W**Call Sign:** VCS**METAREA:** IV**Area Covered:** Arctic coast, Atlantic Coast and S. Lawrence River

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (MF)	<b>A</b>	2 749 kHz		Chebogue	44°28'N 63°37'W	H24
RT (MF)	<b>B</b>	2 749 kHz		Sambro	44°28'N 63°37'W	H24
VHF	<b>C</b>	Ch 21B		Sambro	45°20'N 61°05'W	H24
VHF	<b>D</b>	Ch 83B		Fox Islands	44°58'N 62°09'W	H24
VHF	<b>E</b>	Ch 83B		Ecum Secum	44°58'N 62°09'W	H24
VHF	<b>F</b>	Ch 21B		Saint John, N.B. (Red Head)	45°14'N 65°59'W	H24
VHF	<b>G</b>	Ch 83B		Cape Blomidon	45°14'N 64°24'W	H24
VHF	<b>H</b>	Ch 83B		Chebogue	44°28'N 63°37'W	H24

**CANADA**

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0140	<b>A</b>	Technical marine synopsis, forecasts and wave height forecasts for marine areas 201 to 208. U.S. weather forecasts for Coastal Waters (Eastport to Schoodic Point, Maine) and Offshore Waters (Gulf of Maine to the Hague Line). Notices to Shipping in areas Bay of Fundy, South and West Coast Nova Scotia.	English followed by French)
0240	<b>B</b>	Technical marine synopsis, forecasts and wave height forecasts for marine areas 203 to 214. Notices to Shipping in South Coast Nova Scotia area. Notices to Shipping revising the position of every reported offshore exploration and exploitation vessel.	
0810	<b>B</b>	Technical marine synopsis, forecasts and wave height forecasts for marine areas 203 to 214. Notices to Fish Harvesters (when available).	
1040	<b>A</b>	Technical marine synopsis, forecasts and wave height forecasts for marine areas 201 to 208. U.S. weather forecasts for Coastal Waters (Eastport to Schoodic Point, Maine) and Offshore Water (Gulf of Maine to the Hague Line). Notices to Fish Harvesters (when available).	English followed by French)
1540	<b>B</b>	Technical marine synopsis, forecasts and wave height forecasts for marine areas 203 to 214. Notices to Shipping in South Coast Nova Scotia area. Notices to Shipping revising the position of every reported offshore exploration and exploitation vessel.	
16:40	<b>A</b>	Technical marine synopsis, forecasts and wave height forecasts for marine areas 201 to 208. U.S. weather forecasts for Coastal Waters (Eastport to Schoodic Point, Maine) and Offshore Waters (Gulf of Maine to the Hague Line). Notices to Shipping for areas Bay of Fundy, South and West Coast Nova Scotia.	English followed by French)
2040	<b>A</b>	Technical marine synopsis, forecasts and wave height forecasts for marine areas 201 to 208. U.S. weather forecasts for Coastal Waters (Eastport to Schoodic Point, Maine) and Offshore Waters (Gulf of Maine to the Hague Line). Notices to Fish Harvesters (when available).	English followed by French)
2120	<b>B</b>	Technical marine synopsis, forecasts and wave height forecasts for marine areas 203 to 214. Notices to Fish Harvesters (when available).	
Continuous	<b>G,H</b>	Point, Maine) and Offshore Waters (Gulf of Maine to the Hague Line). Notices to Shipping for areas Bay of Fundy, South and West Coast Nova Scotia.	
Continuous	<b>F</b>	Technical marine synopsis, forecasts and wave height forecasts for marine areas 201 to 208. U.S. weather forecasts for Coastal Waters (Eastport to Schoodic	(English followed by French)

**CANADA**

Continuous

**C,D,E**

Technical marine synopsis, forecasts and wave height forecasts for marine areas 203 to 214.  
Notices to Shipping in South Coast Nova Scotia area.  
Notices to Shipping revising the position of every reported offshore exploration and exploitation vessel.  
Notices to Fish Harvesters (when available).

**CANADA****Iqaluit, Nunavut (MCTS)****Position:** 63°43'52"N 068°32'32"W**Call Sign:** VFF**METAREA:** XVII, XVIII**Area Covered:** Arctic coast, Atlantic Coast and S. Lawrence River

24-hour watch

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (MF)	<b>A</b>	4 363 kHz		Cambridge Bay	69°07'N 105°01'W	
RT (MF)	<b>B</b>	2 514 kHz		Coral Harbour	64°09'N 83°22'W	
RT (MF)	<b>C</b>	6 507 kHz		Coral Harbour	64°09'N 83°22'W	
RT (MF)	<b>D</b>	4 363 kHz		Hay River	60°50'N 115°46'W	
RT (MF)	<b>E</b>	5 803 kHz		Inuvik	68°19'N 133°35'W	
RT (MF)	<b>F</b>	6 218.6 kHz		Inuvik	68°19'N 133°35'W	
RT (MF)	<b>G</b>	2 582 kHz		Iqaluit	63°44'N 68°32'W	
RT (MF)	<b>H</b>	4 363 kHz		Iqaluit	63°44'N 68°32'W	
RT (MF)	<b>I</b>	6 507 kHz		Iqaluit	63°44'N 68°32'W	
RT (MF)	<b>J</b>	2 514 kHz		Killinek	60°25'N 64°50'W	
RT (MF)	<b>K</b>	2 582 kHz		Resolute	74°44'N 95°00'W	
RT (MF)	<b>L</b>	4 363 kHz		Resolute	74°44'N 95°00'W	
VHF	<b>M</b>	Ch26		Parson's Lake and Enterprise	68°53'N 133°56'W	
VHF	<b>N</b>	Ch85		Yellowknife	62°25'N 114°24'W	

**CANADA**

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0110	<b>B,C</b>	Technical marine synopsis and forecasts for marine areas 155, 156, 157, 158, 162, 163, 311 and 312. Following areas on request: 151, 152, 153, 154, 159, 160, 161, 164nd 310. Notices to Shipping "Series A" for all NORDREG waters east of 106W and along the Labrador coast southward to 58N, including Hudson Strait, Hudson Bay, Ungava Bay, Foxe Basin, James Bay and Chesterfield Inlet to Baker Lake.	
0115	<b>D,E,M,N</b>	Technical marine synopsis for Western Arctic waters (if applicable for Mackenzie River and Great Slave Lake area). Marine forecast for Great Slave Lake (Area 180). Marine forecast for Mackenzie River (Area 110) and Mackenzie Delta ODAS Weather Buoys 45141 and 45150. Notices to Shipping (H-Series).	
0235	<b>A,F</b>	Technical marine synopsis for Western Arctic waters. Forecasts for marine areas 111 to 122 inclusive. Notices to Shipping "Series A" for all NORDREG waters west of Taloyoak.	
1240	<b>K,L</b>	Technical marine synopsis and forecasts for marine areas 125, 135, 136, 137 and 138. Notices to Shipping "A Series" for all NORDREG waters bound by Shipping Safety Control Zones 1, 2, 3, 5, 6, 9 and 13.	
1315	<b>D,E,M,N</b>	Technical marine synopsis for Western Arctic waters (if applicable for Mackenzie River and Great Slave Lake area). Marine forecast for Great Slave Lake (Area 180). Marine forecast for Mackenzie River (Area 110) and Mackenzie Delta ODAS Weather Buoys 45141 and 45150. Notices to Shipping (H-Series).	
1320	<b>B,C</b>	Technical marine synopsis and forecasts for marine areas 155, 156, 157, 158, 162, 163, 311 and 312.Following marine areas on request: 151, 152, 153, 154, 159, 160, 161, 164 and 310.Notices to Shipping "A Series" for all NORDREG waters east of 106W and along the Labrador coast southward to 58N, including Hudson Strait, Hudson Bay, Ungava Bay, Foxe Basin, James Bay and Chesterfield Inlet to Baker Lake.	
1410	<b>J,G,H,I</b>	Technical marine synopsis and forecasts for areas: 139 to 150 and 228, 229 and 230. Following marine areas on request: 137 and 138.Notices to Shipping "A Series" for all NORDREG waters east of 106W and along the Labrador coast southward to 58N bound by Shipping Safety Control Zones 9, 10 and 15, including Ungava Bay.	
1435	<b>A,F</b>	Technical marine synopsis for Western Arctic waters. Forecasts for marine areas 111 to 122 inclusive. Notices to Shipping "A Series" for all NORDREG waters west of Taloyoak.	
1705	<b>A,B,F,G,J,H,K,L</b>	Ice boundary information. Ice forecasts for marine areas 111 to 122 and 125, 135, 136, 137, 138, 139, 140, 141, 142, 144, 145, 146, 147, 148, 149, 150, 155, 156, 157, 158, 162, 163, 228, 229, 230, 311 and 312 for Hudson Bay and Foxe Basin.	
2235	<b>H,I,J,K</b>	Technical marine synopsis and forecasts for marine areas 139 to 150 and 228, 229 and 230. Following marine areas on request: 137 and 138. Notices to Shipping "A Series" for all NORDREG waters east of 106W and along the Labrador coast southward to 58N bound by Shipping Safety Control Zones 9, 10 and 15, including Ungava Bay.	

**CANADA**

2310

**K,L**

Technical marine synopsis and forecasts for marine areas 125, 135, 136, 137 and 138.  
Notices to Shipping "A Series" for all NORDREG waters bound by Shipping Safety  
Control Zones 1, 2, 3, 5, 6, 9 and 13.



**CANADA****Labrador, (Goose Bay), Newfoundland and Labrador (MCTS)****Position:** 49°41'10"N 054°48'00"W**Call Sign:** VOK**METAREA:** IV**Area Covered:** North Atlantic to Barents Sea - Arctic coast, Atlantic Coast and S. Lawrence River

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (MF)	<b>A</b>	2 598 kHz		St. Anthony (Newfoundland)	51°30'N 55°49'W	
RT (MF)	<b>B</b>	2 598 kHz		Cartwright	53°42'N 57°01'W	
RT (MF)	<b>C</b>	2 598 kHz		Hopedale	55°27'N 60°12'W	
VHF	<b>D</b>	Ch83B		Cartwright	53°43'N 56°58'W	
VHF	<b>E</b>	Ch21B		Comfort Cove	49°16'N 54°52'W	
VHF	<b>F</b>	Ch21B		Conche (Newfoundland)	50°53'N 55°53'W	
VHF	<b>G</b>	Ch21B		Goose Bay	53°18'N 60°31'W	
VHF	<b>H</b>	Ch21B		Hopedale	55°27'N 60°12'W	
VHF	<b>I</b>	Ch83B		L'Anse aux Meadows	51°34'N 55°29'W	
VHF	<b>J</b>	Ch83B		Nain	56°32'N 61°42'W	
VHF	<b>K</b>	Ch83B		Twillingate	49°41'N 54°48'W	

**CANADA**

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0107	<b>A</b>	Technical marine synopsis, forecasts and wave height forecasts for marine areas 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 235, 237 and 238. Ice conditions and forecast for the East Coast of Newfoundland, and the Labrador Coast, south of 54N. Iceberg Bulletin: Newfoundland Coast and Strait of Belle Isle.	
0137	<b>B,C</b>	Technical marine synopsis, forecasts and wave height forecasts for marine areas 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 235, 237 and 238. Ice Edge and Conditions for Labrador Coast.	
0907	<b>A</b>	Technical marine synopsis and forecasts for marine areas 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 235, 237 and 238. Ice conditions and forecast for the East Coast of Newfoundland and the Labrador Coast, south of 54N. Iceberg Bulletin: Newfoundland East Coast and Strait of Belle Isle.	
1007	<b>B,C</b>	Technical marine synopsis, forecasts and wave height forecasts for marine areas 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 235, 237 and 238. Ice conditions and forecast for Labrador Coast.	
1107	<b>B,C</b>	Notices to Shipping: Nearshore (Belle Isle to Cape Chidley), Offshore (North Atlantic, Cape Bauld to Cape Chidley). Notices To Fish Harvesters (when available).	
1237	<b>A</b>	Notices to Shipping for an area bounded by Flower's Cove to the west, Cartwright to the north and Cape Freels to the southeast. Notices to Fish Harvesters (when available).	
1337	<b>A</b>	Technical marine synopsis, forecasts and wave height forecasts for marine areas 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 235, 237 and 238.	
1437	<b>B,C</b>	Technical marine synopsis and forecasts for marine areas 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 235, 237 and 238. Ice conditions and forecast for Labrador Coast.	
1907	<b>A</b>	Notices to Shipping for an area bounded by Flower's Cove to the west, Cartwright to the north and Cape Freels to the southeast. Ice conditions and forecast for the East Coast of Newfoundland, and the Labrador Coast, south of 54N. Iceberg Bulletin: Newfoundland East Coast and Strait of Belle-Isle. Notices to Fish Harvesters (when available).	
1937	<b>A</b>	Technical marine synopsis, forecasts and wave height forecasts for marine areas 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 235, 237 and 238.	
2037	<b>B,C</b>	Technical marine synopsis and forecasts for marine areas 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 235, 237 and 238. Ice Edge and Conditions for Labrador Coast. Notices to Fish Harvesters (when available).	
2307	<b>B,C</b>	Notices to Shipping: Nearshore (Belle Isle to Cape Chidley), Offshore (North Atlantic, Cape Bauld to Cape Chidley).	

**CANADA**

Continuous (Labrador North)

**D,G,H,J**

Technical marine synopsis, forecasts and wave height forecasts for marine areas 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 235, 237 and 238.  
Ice Edge and Conditions for Labrador Coast.  
Notices to Shipping: Belle Isle to Cape Chidley.  
Notices to Fish Harvesters (when available).

Continuous (Labrador South)

**E,F,I,K,L**

Technical marine synopsis, forecasts and wave height forecasts for marine areas 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 235, 237 and 238.  
Notices to Shipping for an area bounded by Flower's Cove to the west, Cartwright to the north and Cape Freels to the southeast.  
Ice conditions and forecast for the East Coast of Newfoundland, and the Labrador Coast, south of 54N.  
Iceberg Bulletin: Newfoundland East Coast and Strait of Belle Isle.  
Notices to Fish Harvesters (when available).

**CANADA****Les Escoumins, Québec (MCTS)****Position:** 50°30'00"N 059°29'17"W**Call Sign:** VCF**METAREA:** IV**Area Covered:** Arctic coast, Atlantic Coast and S. Lawrence River

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
	<b>A</b>	2 749 kHz		La Vernière	47°21'N 061°55'W	
	<b>B</b>	2 598 kHz		Natashquan		
VHF	<b>C</b>	Ch 21B		Cap à l'Est		
VHF	<b>D</b>	Ch 21B		Cap-aux-Meules		
VHF	<b>E</b>	Ch 21B		Carleton	48°08'N 66°06'W	
VHF	<b>F</b>	Ch 21B		Forillon	48°50'N 64°15'W	
VHF	<b>G</b>	Ch 21B		Grosses-Roches	48°55'N 67°06'W	
VHF	<b>I</b>	Ch 21B		Lac Daigle	50°17'N 66°18'W	
VHF	<b>J</b>	Ch 21B		Natashquan	50°09'N 61°47'W	
VHF	<b>K</b>	Ch 25B		Harrington Harbour	50°30'N 59°29'W	
VHF	<b>L</b>	Ch 25B		Heath Point	49°05'N 61°42'W	
VHF	<b>M</b>	Ch 83B		Havre St-Pierre	50°16'N 63°40'W	
VHF	<b>N</b>	Ch 83B		La Romaine	50°13'N 60°41'W	
VHF	<b>O</b>	Ch 83B		Mont-Joli	48°36'N 68°13'W	
VHF	<b>Q</b>	Ch 83B		Mont-Louis	49°12'N 65°46'W	
VHF	<b>R</b>	Ch 83B		Newport	48°13'N 64°47'W	
VHF	<b>S</b>	Ch 83B		Sacré-Cœur	48°13'N 69°52'W	

**CANADA**

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0437	<b>A,B</b>	Technical marine synopsis and forecasts for marine areas 215 to 221 and 301 to 302. Wave height forecasts for marine areas 215, 217, 219, 220, 221, 301 and 302. Notices to Fish Harvesters (when available).	
0847	<b>A,B</b>	Technical marine synopsis and forecasts for marine areas 215 to 221 and 301 to 302. Wave height forecasts for marine areas 215, 217, 219, 220, 221, and 301 to 302.	
0937	<b>A,B</b>	Notices to Shipping. Notices to Shipping revising the position of every reported offshore exploration and exploitation vessel. Notice to Fish Harvesters (when available). Ice Information.	
1407	<b>A,B</b>	Technical marine synopsis and forecast for marine areas 215 2749J3E to 221 and 301 to 302. Wave height forecast for marine areas 215, 217, 219, 220, 221, and 301 to 302.	
1737	<b>A,B</b>	Notices to Fish Harvesters (when available). Ice Reports. Notices to Shipping. Notices to Shipping revising the position of every reported offshore exploration and operation vessel.	
2317	<b>A,B</b>	Technical marine synopsis and forecasts for marine areas 215 to 221, 301 and 302. Wave height forecast for marine areas 215, 217, 219, 220, 221, 301 and 302. Notice to Fish Harvesters (when available).	
Continuous	<b>C,G,I O,Q,S</b>	Forecasts for marine areas 219, 301, 302, 303, 304, 305 and 313. Notices to Shipping for the Saguenay River and the St. Lawrence River from Île aux Coudres to a line from Mingan to Cap Gaspé including Port Menier and the western point of Anticosti Island. Ice information for the Saguenay River and the St. Lawrence River from Île aux Coudres to Cabot and Belle-Isle straits.(when available). Notices to Fish Harvesters (when available).	
Continuous	<b>D,E,F,J K,L M,N,R</b>	Forecasts for marine areas 215, 216, 217, 218, 219, 220, 221, 301 and 302. Notices to Shipping for the Gulf of St. Lawrence including the Magdalene Islands, the coast between Sept-Îles and Blanc Sablon, the southern shore of 66W eastward including the Baie des Chaleurs up to Miramichi beach. Ice Reports. Notices to Fish Harvesters (when available). Notices to Shipping revising the position of every reported offshore exploration and exploitation vessel. Wave height forecasts for marine areas 215, 217, 219, 220, 221, 301 and 302.	

**Note:**

Hourly weather observations for certain specific locations, technical marine synopsis, other weather forecast areas and MAFOR codes are available upon request.

**CANADA****Placentia, Newfoundland and Labrador (MCTS)****Position:** 47°36'40"N 052°40'01"W**Call Sign:** VCP**METAREA:** IV**Area Covered:** Arctic coast, Atlantic Coast and S. Lawrence River

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (MF)	<b>A</b>	2 598 kHz		St. John's	47°36'N 52°40'W	
RT (MF)	<b>B</b>	2 598 kHz		St. Lawrence	46°55'N 55°22'W	
VHF	<b>C</b>	Ch 21B		Bay L'Argent (Placentia South)	47°32'N 54°51'W	
VHF	<b>D</b>	Ch 21B		Cape Bonavista (Placentia North)	48°41'N 53°05'W	
VHF	<b>E</b>	Ch 21B		St. John's (Placentia North)	47°36'N 52°40'W	
VHF	<b>F</b>	Ch 21B		St. Lawrence (Placentia South)	46°55'N 55°22'W	
VHF	<b>G</b>	Ch 23B		Freshwater (Placentia South)	47°15'N 53°59'W	
VHF	<b>H</b>	Ch 28B		Hermitage (Placentia South)	47°33'N 55°56'W	
VHF	<b>I</b>	Ch 28B		Lumsden (Placentia North)	49°17'N 53°35'W	
VHF	<b>J</b>	Ch 83B		Cape Pine (Placentia South)	46°37'N 53°32'W	
VHF	<b>K</b>	Ch 83B		Fortune Head (Placentia South)	47°04'N 55°51'W	
VHF	<b>L</b>	Ch 83B		Victoria (Placentia North)	47°50'N 53°18'W	

**CANADA**

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0007	A	Technical marine synopsis, forecasts and wave height forecasts for marine areas 231, 232, 233, 234, 235, 236, 237 and 238. Ice Edge and Conditions East Newfoundland Coast south of Strait of Belle Isle and approaches.	
0048	B	Technical marine synopsis, forecasts and wave height forecasts for marine areas 231, 232, 233, 234, 235, 236, 237 and 238. Weather and Wave height forecasts for marine area 213.	
0737	B	Technical marine synopsis and forecasts for marine areas 231, 232, 233, 234, 235, 236, 237 and 238. Weather forecasts for marine area 213. Ice Edge and Conditions South Coast east of Penguin Island, East Coast to Cape Freels. Notices to Fish Harvesters (when available).	
0837	A	Technical marine synopsis and forecasts for marine areas 231, 232, 233, 234, 235, 236, 237 and 238. Ice Edge and Conditions East Newfoundland Coast south of Strait of Belle Isle and approaches. Notices to Fish Harvesters (when available).	
1137	B	Notices to Shipping Ramea Island to Cape Ballard. Notices to Shipping revising the position of every reported offshore exploration and exploitation vessel.	
1307	A	Notice to Shipping: Nearshore (Cape Pine to Twillingate), Offshore (North Atlantic to Cape Bauld). Notices to Shipping revising the position of every reported offshore exploration and exploitation vessel.	
1607	B	Technical marine synopsis forecasts and wave height forecasts for marine areas 231, 232, 233, 234, 235, 236, 237 and 238. Weather and Wave height forecasts for marine area 213.	
1637	A	Technical marine synopsis, forecasts and wave height forecasts for marine areas 231, 232, 233, 234, 235, 236, 237 and 238. Ice Edge and Conditions East Newfoundland Coast south of Strait of Belle Isle and approaches.	
1807	B	Notices to Shipping Ramea Island to Cape Ballard. Notices to Shipping revising the position of every reported offshore exploration and exploitation vessel.	
2007	A	Technical marine synopsis and forecasts for marine areas 231, 232, 233, 234, 235, 236, 237 and 238. Ice Edge and Conditions East Newfoundland Coast south of Strait of Belle Isle and approaches.	
2137	B	Technical marine synopsis and forecasts for marine areas 231, 232, 233, 234, 235, 236, 237 and 238. Weather forecasts for marine area 213. Ice Edge and Conditions South Coast east of Penguin Island, East Coast to Cape Freels. Notices to Fish Harvesters (when available).	

**CANADA**

2207

**A**

Notices to Shipping: Nearshore (Cape Pine to Twillingate), Offshore (North Atlantic to Cape Bauld).  
Notices to Shipping revising the position of every reported offshore exploration and exploitation vessel.  
Notices to Fish Harvesters (when available).

Continuous

**C,F,  
G,  
H,  
J,K**

Technical marine synopsis, forecasts and wave height forecasts for marine areas 231, 232, 233, 234, 235, 236, 237 and 238.  
Weather and wave height forecasts for marine area 213.  
Ice Edge and Conditions South Coast east of Penguin Island, East Coast to Cape Freels.  
Notices to Shipping Ramea Island to Cape Ballard.  
Notices to Shipping revising the position of every reported offshore exploration and exploitation vessel.  
Notices to Fish Harvesters (when available).  
Notices to Shipping Placentia Bay and Approaches, Ferryland Head to Cape St. Mary's on Ch23B only.

Continuous

**D,E,I,L**

Technical marine synopsis, forecasts and wave height forecasts for marine areas 231, 232, 233, 234, 235, 236, 237 and 238. Ice Edge and Conditions East Newfoundland Coast south of Strait of Belle Isle and approaches.  
Notices to Shipping Cape Pine to Twillingate.  
Notices to Fish Harvesters (when available).



**CANADA****Port aux Basques, Newfoundland and Labrador (MCTS)****Position:** 50°41'59"N 057°24'19"W**Call Sign:** VOJ**METAREA:** IV**Area Covered:** Arctic coast, Atlantic Coast and S. Lawrence River

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (MF)	<b>A</b>	2 598 kHz		Stephenville	48°33'N 58°45'W	
VHF	<b>B</b>	Ch 21B		Bonne Bay	49°36'N 57°57'W	
VHF	<b>C</b>	Ch 21B		Pointe Riche	50°42'N 57°24'W	
VHF	<b>D</b>	Ch 21B		Ramea Island	47°30'N 57°24'W	
VHF	<b>E</b>	Ch 23B		Pointe Riche	50°42'N 57°24'W	
VHF	<b>F</b>	Ch 28B		Mount Moriah	48°58'N 58°02'W	
VHF	<b>G</b>	Ch 28B		Pine Tree	48°35'N 58°40'W	
VHF	<b>H</b>	Ch 28B		Table Mountain	49°36'N 57°57'W	
VHF	<b>I</b>	Ch 83B		Bonne Bay	49°36'N 57°57'W	
VHF	<b>J</b>	Ch 83B		Mount Moriah	48°58'N 58°02'W	
VHF	<b>K</b>	Ch 83B		Pine Tree	48°35'N 58°40'W	

**CANADA**

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0207	<b>A</b>	Technical marine synopsis, forecasts and wave height forecast for marine areas 220, 221, 222 and 231. Weather forecast and wave height forecast for marine areas 215, 217 and 219.	English followed by French
0807	<b>A</b>	Technical marine synopsis and forecasts for marine areas 220, 221, 222 and 231. Weather forecast for marine areas 215, 217 and 219. Ice Edge and Conditions for marine areas Northeast Gulf, Gulf Port au Port, Southwest Coast, Cabot Strait, Gulf-Magdalen and Anticosti.	English followed by French
1207	<b>A</b>	Notices to shipping from Penguin Island to Cape Norman including Labrador Coast between West Point (Red Bay) and the Québec/Labrador border. Notices to Fish Harvesters (when available).	English followed by French
1507	<b>A</b>	Technical marine synopsis, forecasts and wave height forecast for marine areas 220, 221, 222 and 231. Weather forecast and wave height forecast for marine areas 215, 217 and 219.	English followed by French
1837	<b>A</b>	Notices to Shipping from Penguin Island to Cape Norman including Labrador Coast between West Point (Red Bay) and the Québec/Labrador border. Ice Edge and Conditions for marine areas: Northeast Gulf, Gulf Port au Port, Southwest Coast, Cabot Strait, Gulf-Magdalen and Anticosti.	English followed by French
2107	<b>A</b>	Technical marine synopsis and forecasts for marine areas 220, 221, 222 and 231. Weather forecast for marine areas 215, 217 and 219. Notices to Fish Harvesters (when available).	English followed by French
Continuous	<b>B,E J,K</b>	Technical marine synopsis, forecasts and wave height forecasts for marine areas 220, 221, 222, and 231. Weather forecast and wave height forecast for marine areas 215, 217 and 219. Notices to Shipping from Penguin Island to Cape Norman including Labrador between West Point (Red Bay) and the Québec/Labrador border. Ice Edge and Conditions for marine areas: Northeast Gulf, Gulf Port au Port, Southwest Coast, Cabot Strait, Gulf-Magdalen and Anticosti. Notices to Fish Harvesters (when available).	French
Continuous	<b>C,D F,G,H I</b>	Technical marine synopsis, forecasts and wave height forecasts for marine areas 220, 221, 222, and 231. Weather forecast and wave height forecast for marine areas 215, 217 and 219. Notices to Shipping from Penguin Island to Cape Norman including Labrador between West Point (Red Bay) and the Québec/Labrador border. Ice Edge and Conditions for marine areas Northeast Gulf, Gulf Port au Port, Southwest Coast, Cabot Strait, Gulf-Magdalen and Anticosti. Notices to Fish Harvester (when available).	English

**CANADA****Prescott, Ontario (MCTS)****Position:** 44°47'17"N 075°25'19"W**Call Sign:** VBR**METAREA:** IV**Area Covered:** Great Lakes

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	<b>A</b>	Ch 21B		Cardinal	44°47'N 75°25'W	
VHF	<b>B</b>	Ch 21B		Coburg	44°04'N 78°12'W	
VHF	<b>C</b>	Ch 21B		Orillia	44°34'N 79°17'W	
VHF	<b>D</b>	Ch 23B		Cornwall	45°01'N 74°43'W	
VHF	<b>E</b>	Ch 23B		Kingston	44°15'N 76°40'W	
VHF	<b>F</b>	Ch 28B		Cardinal	44°47'N 75°25'W	
VHF	<b>G</b>	Ch 83B		Cornwall	45°01'N 74°43'W	
VHF	<b>H</b>	Ch 83B		Fonthill	43°03'N 79°18'W	
VHF	<b>I</b>	Ch 83B		Kingston	44°15'N 76°40'W	
VHF	<b>J</b>	Ch 26		Jackhead	51°53'N 97°19'W	Operational May 15 to October
VHF	<b>K</b>	Ch 26		Long Point	52°55'N 98°58'W	Operational May 15 to October
VHF	<b>L</b>	Ch 26		Beaver Creek	51°23'N 96°54'W	Operational May 15 to October
VHF	<b>M</b>	Ch19		Fraserwood	50°34'N 97°14'W	Operational May 15 to October

**CANADA**

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0140, 0840, 1240, 1640, 2140	<b>J-M</b>	Localized weather warnings/watches, marine weather statements, regular marine forecasts, and extended marine forecasts for Lake Winnipeg. Notices to Shipping for Lake Winnipeg, Playgreen Lake and Red River north of St. Andrews Lock and Dam.	
Continuous	<b>C</b>	Localized weather warnings/watches, marine weather statements, technical marine synopsis, regular marine forecasts, wave height forecast and extended marine forecasts for Georgian Bay (Area 406). Recreational Boating Forecast for Lake Simcoe (Area 481). Water level readings for Lake Huron. Notices to Shipping for the Trent Severn waterway, and southern Georgian Bay contiguous from the Severn River to 080 00W. Ice forecast for Georgian Bay.	English
Continuous	<b>D,E,F</b>	Localized weather warnings/watches, marine weather statements, technical marine synopsis, regular marine forecasts and extended marine forecasts for St. Lawrence River from Kingston to Montréal (Areas: 309 and 401). Notices to Shipping in the St. Lawrence River west of Melocheville. Water level readings for Montréal Harbour. Operational March 15 to December 31.	French
Continuous CMB East	<b>A,G,I</b>	Localized weather warnings/watches, marine weather statements, technical marine synopsis, regular marine forecasts, wave height forecast and extended marine forecasts for St. Lawrence River from Kingston to Montréal and Lake Ontario (Areas: 309, 401 and 402). Notices to Shipping in St. Lawrence River west of Melocheville, Lake Ontario east of 77 40W, Trent River and portions of the Rideau Canal receiving coverage from the Kingston facilities. Water level readings from Montréal Harbour, and Lake Ontario. Ice forecast for Lake Ontario.	English
Continuous CMB West	<b>B,H</b>	Localized weather warnings/watches, marine weather statements, technical marine synopsis, regular marine forecasts, wave height forecast and extended marine forecasts for Lake Ontario and Lake Erie (Areas 402 and 403). Notices to Shipping in Lake Ontario west of 077 00W and Lake Erie east of 080 20W and portions of the Trent-Severn waterway system receiving coverage from the Cobourg facilities. Water level readings for Toronto Harbour, Lake Ontario and Lake Erie. Notices to Shipping revising the position of every reported offshore exploration and exploitation vessel. Ice forecast for Lake Ontario and Lake Erie.	English

NOTE: MAFOR Code available upon request.

**CANADA****Prince Rupert, British Columbia (MCTS)****Position:** 48°57'34"N 125°29'30"W**Call Sign:** VAJ**METAREA:** XII**Area Covered:** Coastal waters of western Canada - East Pacific Coast

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (MF)	<b>A</b>	2 054 kHz		Amphitrite Point	48°55'N 125°32'W	
RT (MF)	<b>B</b>	2 054 kHz		Digby Island	54°18'N 130°25'W	
RT (MF)	<b>C</b>	2 054 kHz		Hunter Point	53°15'N 132°43'W	
VHF	<b>D</b>	Ch 21B		Esperanza	49°50'N 126°48'W	
VHF	<b>E</b>	Ch 21B		Holberg	50°38'N 128°07'W	
VHF	<b>F</b>	Ch 21B		Kitimat	54°03'N 128°38'W	
VHF	<b>G</b>	Ch 21B		Mount Dent	55°13'N 129°59'W	
VHF	<b>H</b>	Ch 21B		Mount Hays	54°17'N 130°18'W	
VHF	<b>I</b>	Ch 21B		Mount Ozzard	48°57'N 125°29'W	
VHF	<b>J</b>	Ch 21B		Rose Inlet	52°13'N 131°13'W	
VHF	<b>K</b>	WX1		Eliza Dome	49°52'N 127°07'W	
VHF	<b>L</b>	WX1		Klemtu	52°34'N 128°33'W	
VHF	<b>M</b>	WX1		Van Inlet	53°15'N 132°32'W	
VHF	<b>N</b>	WX2		Barry Inlet	52°34'N 131°45'W	
VHF	<b>O</b>	WX2		Calvert Island	51°35'N 128°00'W	
VHF	<b>P</b>	WX2		Dundas Island	54°31'N 130°55'W	
VHF	<b>Q</b>	WX2		Mount Gil	53°15'N 129°11'W	
VHF	<b>R</b>	WX2		Port Alberni	49°13'N 124°48'W	
VHF	<b>S</b>	WX3		Cumshewa	53°09'N 131°59'W	
VHF	<b>T</b>	WX3		Estevan Point	49°23'N 126°32'W	
VHF	<b>U</b>	WX3		Naden Harbour	53°57'N 132°56'W	
VHF	<b>V</b>	WX2		Nootka	49°35'N 126°37'W	

**CANADA**

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0450, 1650	<b>A</b>	Technical marine synopsis and marine forecast 1, 5, 6, 7. Wave height forecast areas 1, 5, 6, 7. Extended marine forecast areas 1, 5, 6, 7. Ocean Buoy Reports: South Nomad, South Brooks, La Perouse Bank, East Dellwood. All Notices to Shipping.	
0515, 1715	<b>B,C</b>	Technical marine synopsis and marine forecast areas 2, 3, 4. Wave height forecast areas 2, 3, 4. Extended marine forecast areas 2, 3, 4. Ocean Buoy Reports: North Nomad, Middle Nomad, West Dixon Entrance, West Moresby, South Moresby. All Notices to Shipping.	
1050, 2250	<b>A</b>	Technical marine synopsis and marine forecast areas 1, 5, 6, 7. Wave height forecast areas 1, 5, 6, 7. Extended marine forecast areas 1, 5, 6, 7. Ocean Buoy Reports: South Nomad, South Brooks, La Perouse Bank, East Dellwood. All Notices to Shipping.	
1115, 2315	<b>B,C</b>	Technical marine synopsis and marine forecast areas 2, 3, 4. Wave height forecast areas 2, 3, 4. Extended marine forecast areas 2, 3, 4. Ocean Buoy Reports: North Nomad, Middle Nomad, West Dixon Entrance, West Moresby, South Moresby. All Notices to Shipping.	
Continuous	<b>D,E,I,K,R,T,V</b>	Technical marine synopsis and marine forecast areas 1, 5, 6, 7, 8, 13, 14. Wave height forecast areas 1, 5, 6, 7, 14. Extended marine forecast areas 1, 5, 6, 7, 8, 13, 14. Automated Weather Reports: Cape St. James, Herbert Island, Sartine Island, Solander Island, Sheringham Point, Race Rocks, Discovery Island. Ocean Buoy Reports: West Sea Otter, East Dellwood, South Brooks, La Perouse, South Moresby. Local and Lighthouse Weather Reports: Trial Island, Carmanah Point, Pachena Point, Cape Beale, Lennard Island, Estevan Point, Nootka, Quatsino, Cape Scott, Pine Island, Egg Island, McInnes Island. All Notices to Shipping. Notices to Fish Harvesters – Weekly Shellfish Updates (every Tuesday at 13:15 PST).	
Continuous	<b>F-H, J, L-Q, S,U</b>	Technical marine synopsis and marine forecast areas 2, 3, 4, 5, 13, 14, 15, 16, 17. Wave height forecast areas 2, 3, 4, 5, 14, 15, 16. Extended marine forecast areas 2, 3, 4, 5, 13, 14, 15, 16, 17. Automated Weather Reports: Grey Islet, Lucy Island, Holland Rock, Bonilla Island, Rose Spit, Kindakun Rock, Prince Rupert, Langara Island, Sandspit, Cumshewa Island, Cape St. James, Cathedral Point, Sartine Island, Herbert Island. Ocean Buoy Reports: North Nomad, Middle Nomad, West Dixon Entrance, Central Dixon Entrance, North Hecate Strait, South Hecate Strait, West Moresby, South Moresby, Nanakwa Shoal, West Sea Otter, East Dellwood. Lighthouse Weather Reports: Green Island, Triple Island, Bonilla Island, Langara Island, Boat Bluff, McInnes Island, Ivory Island, Dryat Point, Addenbroke Island, Egg Island, Cape Scott, Pine Island. All Notices to Shipping. Notices to Fish Harvesters – Weekly Shellfish Updates (every Tuesday at 11:15 PST).	

**CANADA**

NOTE: Continuous broadcast information is available by tel. from prince Rupert +1 250 624 9009.

**CANADA****Québec, Québec (MCTS)****Position:** 47°45'35"N 069°36'19"W**Call Sign:** VCC**METAREA:** IV**Area Covered:** Arctic coast, Atlantic Coast and S. Lawrence River

24-hour watch

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	<b>A</b>	Ch 21B		Lauzon	46°48'N 71°09'W	
VHF	<b>B</b>	Ch 21B		Mont Saint-Bruno	45°33'N 73°19'W	
VHF	<b>C</b>	Ch 21B		Rivière-du-Loup	47°45'N 69°36'W	
VHF	<b>D</b>	Ch 25B		Mont Rigaud	45°27'N 74°17'W	
VHF	<b>E</b>	Ch 25B		Sorel	46°02'N 73°07'W	
VHF	<b>F</b>	Ch 83B		L'Acadie	45°19'N 73°18'W	
VHF	<b>G</b>	Ch 83B		Montmagny	46°55'N 70°30'W	
VHF	<b>H</b>	Ch 83B		Rivière-du-Loup	47°45'N 69°36'W	
VHF	<b>I</b>	Ch 83B		Trois-Rivières	46°24'N 72°27'W	



**CANADA**

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
Continuous	<b>F</b>	<p>Technical marine synopsis and forecasts for areas 303*, 305, 306, 307, 308, 309 and 314.</p> <p>Notices to Shipping for the region: from a line Les Escoumins -Trois-Pistoles to Cornwall (Ontario), including the Ottawa River, Lac des Deux-Montagnes between buoy H331 (Papineauville) and Ste-Anne de Bellevue, Lake St-François, Lake St-Louis, Rivière des Milles-Îles, Rivière des Prairies and Rivière Richelieu up to U.S. boundaries including Missisquoi Bay.</p> <p>Water level for Montréal, Sorel, Trois-Rivières, Pointe Claire*, Ste Anne de Bellevue*.</p> <p>Ice information.</p> <p>Seaway message.</p>	
Continuous	<b>E</b>	<p>Technical marine synopsis and forecasts for areas 303*, 305, 306, 307, 308, 309 and 314.</p> <p>Notices to Shipping for the region: from a line Les Escoumins -Trois-Pistoles to Cornwall (Ontario), including the Ottawa River, Lac des Deux-Montagnes between buoy H331 (Papineauville) and Ste-Anne de Bellevue, Lake St-François, Lake St-Louis, Rivière des Milles-Îles, Rivière des Prairies and Rivière Richelieu up to U.S. boundaries including Missisquoi Bay.</p> <p>Water level for Montréal, Sorel, Trois-Rivières, Pointe Claire*, Ste Anne de Bellevue*.</p> <p>Ice information.</p> <p>Seaway message.</p>	
Continuous	<b>B,D</b>	<p>Ice information.</p> <p>Seaway message.</p> <p>Notices to Shipping for the region: from a line Les Escoumins -Trois-Pistoles to Cornwall (Ontario), including the Ottawa River, Lac des Deux-Montagnes between buoy H331 (Papineauville) and Ste-Anne de Bellevue, Lake St-François, Lake St-Louis, Rivière des Milles-Îles, Rivière des Prairies and Rivière Richelieu up to U.S. boundaries including Missisquoi Bay. Water level for Montréal, Sorel, Trois-Rivières, Pointe Claire*, Ste Anne de Bellevue*.</p> <p>Ice information.</p> <p>Seaway message.</p>	
Continuous	<b>A,C G,I</b>	<p>Technical marine synopsis and forecasts for areas 303*, 305, 306, 307, 308, 309 and 314.</p> <p>Notices to Shipping for the region: from a line Les Escoumins -Trois-Pistoles to Cornwall (Ontario), including the Ottawa River, Lac des Deux-Montagnes between buoy H331 (Papineauville) and Ste-Anne de Bellevue, Lake St-François, Lake St-Louis, Rivière des Milles-Îles, Rivière des Prairies and Rivière Richelieu up to U.S. boundaries including Missisquoi Bay. Water level for Montréal, Sorel, Trois-Rivières, Pointe Claire*, Ste Anne de Bellevue*.</p> <p>Ice information.</p> <p>Seaway message.</p>	

NOTE:  
 MAFOR Code available upon request  
 \*From May 1st to October 31st.

**CANADA****Sarnia, Ontario (MCTS)****Position:** 45°33'53"N 080°19'02"W**Call Sign:** VBE**METAREA:** IV**Area Covered:** Great Lakes

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	<b>A</b>	Ch 21B		Camlachie	43°01'N 082°11'W	
VHF	<b>B</b>	Ch 21B		Horn	48°49'N 087°21'W	
VHF	<b>C</b>	Ch 21B		Killarney	45°58'N 081°29'W	
VHF	<b>D</b>	Ch 21B		Pointe au Baril	45°34'N 080°19'W	
VHF	<b>E</b>	Ch 21B		Port Burwell	42°35'N 080°36'W	
VHF	<b>F</b>	Ch 21B		Sault Ste. Marie	46°32'N 084°35'W	
VHF	<b>G</b>	Ch 21B		Tobermory	45°09'N 081°29'W	
VHF	<b>H</b>	Ch 83B		Bald Head	47°39'N 084°47'W	
VHF	<b>I</b>	Ch 83B		Kincardine	44°07'N 081°41'W	
VHF	<b>J</b>	Ch 83B		Leamington	42°04'N 082°40'W	
VHF	<b>K</b>	Ch 83B		Meaford	44°31'N 080°34'W	
VHF	<b>L</b>	Ch 83B		Silver Water (Manitoulin Island)	45°54'N 082°55'W	
VHF	<b>M</b>	Ch 83B		Thunder Bay	48°26'N 089°18'W	

## CANADA

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
Continuous (CMB East)	<b>C,D,G K,L</b>	Weather warnings/watches, marine weather statements, technical marine synopsis, regular marine forecasts, extended marine forecast and wave height forecast and for Lakes Superior, Huron, St Clair and Erie, and Georgian Bay. Recreational boating forecast for the North Channel. Notices to Shipping for Lake Huron north of latitude 44 00N, Georgian Bay (including Port Severn Lock), the North Channel and the St. Mary's River. Water levels for Lakes Superior and Huron. Ice forecast for Lakes Superior and Huron.	
Continuous (CMB North)	<b>A,I</b>	Weather warnings/watches, marine weather statements, technical marine synopsis, regular marine forecasts, extended marine forecast and wave height forecast and for Lakes Superior, Huron, St Clair and Erie, and Georgian Bay. Notices to Shipping for Lake Huron South of 45 10N, St. Clair River, Lake St. Clair and Detroit River. Water levels for Lake Huron, Lake St. Clair and Lake Erie. Ice forecast for Lake Huron, Lake St. Clair and Lake Erie.	
Continuous (CMB South)	<b>E,J</b>	Weather warnings/watches, marine weather statements, technical marine synopsis, regular marine forecasts, extended marine forecast and wave height forecast and for Lakes Superior, Huron, St Clair and Erie, and Georgian Bay. Notices to Shipping in St. Clair River, Lake St. Clair, Detroit River and Lake Erie West of 79 40W. Notices to Shipping revising the position of every reported offshore exploration and exploitation vessel. Water levels for Lake Huron, Lake St. Clair and Lake Erie. Ice forecast for Lake Huron, Lake St. Clair and Lake Erie.	
Continuous (CMB West)	<b>B,F H,M</b>	Weather warning/watches, marine weather statements, technical, Marine synopsis, regular marine forecasts, extended marine forecast and wave height forecast and for Lakes Superior, Huron, St Clair and Erie and Georgian Bay. Notices for Shipping for Lake Superior and the St. Mary's River. Water levels for Lakes Superior and Huron. Ice forecast for Lakes Superior and Huron.	

NOTE: MAFOR Code available upon request.

**CANADA****Sydney, Nova Scotia (MCTS)****Position:** 46°11'14"N 059°53'59"W**Call Sign:** VCO**METAREA:** IV**Area Covered:** North Atlantic to Barents Sea  
Arctic coast, Atlantic Coast and S. Lawrence River

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (MF)	<b>A</b>	2 749 kHz		Port Caledonia	46°11'N 59°54'W	
VHF	<b>B</b>	Ch 21B		Montague	46°11'N 62°39'W	
VHF	<b>C</b>	Ch 21B		Point Escuminac NB	47°04'N 64°48'W	
VHF	<b>D</b>	Ch 21B		Port Caledonia	46°11'N 59°54'W	
VHF	<b>E</b>	Ch 83B		Cape Egmont	46°24'N 64°08'W	
VHF	<b>F</b>	Ch 83B		Cape North	47°00'N 60°25'W	

**CANADA**

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
00:40	<b>A</b>	Technical marine synopsis and forecasts for marine areas 209, 213, 214, 215, 216, 217, 218, 231 and 232. Wave height forecast for marine areas 209, 213, 214, 215 and 217. •Notices to Shipping in areas Cape Breton Shore (covering Cabot Strait to Banquereau Bank), Gulf of St. Lawrence, Newfoundland South Coast, P.E.I. and Miramichi Bay. •Notices to Shipping revising the position of every reported offshore exploration and exploitation vessel.	
07:40	<b>A</b>	•Technical marine synopsis and forecasts for marine areas 209, 213, 214, 215, 216, 217, 218, 231 and 232. •Wave height forecast for marine areas 209, 213, 214, 215 and 217. •Notices to Fish Harvesters (when available).	
14:40	<b>A</b>	Technical marine synopsis and forecasts for marine areas 209, 213, 214, 215, 216, 217, 218, 231 and 232. Wave height forecast for marine areas 209, 213, 214, 215 and 217. •Notices to Shipping in areas Cape Breton Shore (covering Cabot Strait to Banquereau Bank), Gulf of St. Lawrence, Newfoundland South Coast, P.E.I. and Miramichi Bay. •Notice to Shipping revising the position of every reported offshore exploration and exploitation vessel.	
20:10	<b>A</b>	•Technical marine synopsis and forecasts for marine areas 209, 213, 214, 215, 216, 217, 218, 231 and 232. •Wave height forecast for marine areas 209, 213, 214, 215 and 217. •Notices to Fish Harvesters (when available).	
Continuous	<b>B,C,D E,F</b>	Technical marine synopsis and forecasts for marine areas 209, 213, 214, 215, 216, 217, 218, 231 and 232. Wave height forecast for marine areas 209, 213, 214, 215 and 217. Notices to Shipping in areas Cape Breton Shore (covering Cabot Strait to Banquereau Bank), Gulf of St. Lawrence, Newfoundland South Coast, P.E.I. and Miramichi Bay. Notices to Shipping revising the position of every reported offshore exploration and exploitation vessel. •Notices to Fish Harvesters (when available). •Ice forecasts for P.E.I. fish harvesters.	

**CANADA****Victoria, British Columbia (MCTS)****Position:** 49°11'35"N 122°55'09"W**Call Sign:** VAK**METAREA:** XII**Area Covered:** East/South China Sea

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	<b>A</b>	Ch 21B		Cape Lazo	49°42'N 124°51'W	
VHF	<b>B</b>	Ch 21B		Discovery Mountain	50°19'N 125°22'W	
VHF	<b>C</b>	Ch 21B		Mount Parke	48°50'N 123°17'W	
VHF	<b>D</b>	Ch 21B		Watts Point (Howe Sound)	49°39'N 123°12'W	
VHF	<b>E</b>	WX1		Alert Bay	50°35'N 126°55'W	
VHF	<b>F</b>	WX1		Texada Island	49°41'N 124°26'W	
VHF	<b>G</b>	WX1		Watts Point (Howe Sound)	49°39'N 123°12'W	
VHF	<b>H</b>	WX3		Bowen Island	49°20'N 123°23'W	
VHF	<b>I</b>	WX3		Mount Helmcken	48°24'N 123°34'W	
VHF	<b>J</b>	WX3		Port Hardy	50°41'N 127°42'W	

**CANADA**

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0710	<b>C,G-I</b>	All Notices to Shipping. Notices to Fish Harvesters. Weekly shellfish update (every Tuesday).	
0720	<b>A,B E,F,J</b>	All Notices to Shipping. Notices to Fish Harvesters. Weekly shellfish update (every Tuesday).	
1310	<b>C,G-I</b>	All Notices to Shipping. Notices to Fish Harvesters.	
1320	<b>A,B E,F,J</b>	All Notices to Shipping. Notices to Fish Harvesters.	
2020	<b>A,B E,F,J</b>	All Notices to Shipping. Notices to Fish Harvesters.	
2110	<b>C,G-I</b>	All Notices to Shipping. Notices to Fish Harvesters.	
Continuous (Interrupted during live broadcasts)	<b>I</b>	Safety Notices to Shipping only. Technical marine synopsis and marine forecast areas 7, 8, 9, 10, 11. Wave height forecast area 7. Extended marine forecast areas 7, 8, 9, 10, 11. Automated Weather Reports: Sheringham Point, Race Rocks, Victoria/Gonzales Point, Discovery Island, Kelp Reef, Saturna Island, Sandheads. Ocean Buoy Report: La Perouse Bank. Local Lighthouse Weather Reports: Estevan Point, Lennard Island, Amphitrite Point, Cape Beale, Pachena Point, Carmanah Point, Trial Island. Automated Weather Reports for Juan de Fuca Strait: Cape Flattery, "JA" Buoy, Hein Bank, Smith Island, Ogden Point.	
Continuous (Interrupted during live broadcasts)	<b>C,G,H</b>	Safety Notices to Shipping only. Technical marine synopsis and marine forecast areas 8, 9, 10, 11. Extended marine forecast areas 7, 8, 9, 10, 11. Automated Weather Reports: Sheringham Point, Race Rocks, Victoria/Gonzales Point, Discovery Island, Kelp Reef, Saturna Island, Sandheads, Point Atkinson, Pam Rocks, Entrance Island, Ballenas Island, Sisters Islet. Ocean Buoy Report: Halibut Bank. Lighthouse Weather Reports: Chrome Island, Merry Island, Entrance Island, Trial Island. Local Weather Reports: Tsawwassen. Fraser River Salmon Fishery Information.	
Continuous Mid-Island (Interrupted during live broadcasts)	<b>A,B F</b>	Safety Notices to Shipping only. Technical marine synopsis and marine forecast areas 11, 12, 13. Extended marine forecast areas 11, 12, 13. Automated Weather Reports: Fanny Island, Grief Point, Sisters Islet, Ballenas Island, Entrance Island. Ocean Buoy Reports: Sentry Shoal, Halibut Bank. Local and Lighthouse Weather Reports: Chatham Point, Cape Mudge, Cape Lazo, Chrome Island, Merry Island, Entrance Island.	

## **CANADA**

Continuous North Island  
(Interrupted during live broadcasts)

**E,J**

Safety Notices to Shipping only.

Technical marine synopsis and marine forecast areas 5, 6, 11, 12, 13, 14.

Wave height forecast areas 5, 6, 14.

Extended marine forecast areas 5, 6, 11, 12, 13, 14.

Automated Weather Reports: Fanny Island, Herbert Island, Cape St. James, Sartine Island, Solander Island.

Ocean Buoy Reports: South Hecate Strait, South Moresby, East Dellwood, West Sea Otter, South Brooks.

Lighthouse Weather Reports: McInnes Island, Addenbroke Island, Egg Island, Pine Island, Scarlett Point, Pulteney Point, Chatham Point, Cape Scott, Quatsino.



**CHILE****Antofagasta Zonal****Position:** 23°40'67"S 070°24'48"W**Call Sign:** CBA**METAREA:** XV**Area Covered:** East Pacific - Ocean areas south of 33°S between 20°W and 70°W.

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	2 738 kHz				
RT (MF)	<b>B</b>	4 357 kHz				
VHF	<b>C</b>	Ch 09				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0045, 1245	<b>A, B</b>	Forecast for Sea Areas 1-3 and the bay of Antofagasta.	Spanish
0105, 1305	<b>C</b>	Forecast for Sea Areas 1 and the bay of Antofagasta.	Spanish

**CHILE****Arica Radio****Position:** 18°29'10"S 070°19'16"W**Call Sign:** CBA**METAREA:** XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	2 738 kHz				
VHF	<b>B</b>	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0045, 1245	<b>A</b>	Forecast for Areas 1.	Spanish
0050, 1255	<b>B</b>	Forecast for Areas 1.	Spanish

**CHILE****Bahía Félix Radio****Position:** 52°57'43"S 074°04'51"W**Call Sign:** CBX**METAREA:** XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (MF)	<b>A</b>	2 738 kHz				
RT (MF)	<b>A</b>	2 738 kHz				
VHF	<b>B</b>	Ch 14				
VHF	<b>B</b>	Ch 14				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0150, 1350	<b>B</b>	Present weather for: Bahía Félix.	Spanish
0210, 1410	<b>A</b>	Present weather for: Bahía Félix.	Spanish

**CHILE****Bahía Fildes****Position:** 62°11'48"S 058°55'30"W**Call Sign:** CBZ22**METAREA:** XV**Area Covered:**

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2738 kHz				
VHF	B	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0150, 1350	A	Antarctic weather forecast for area 9.	
0155, 1355	B	Antarctic weather forecast for area 9.	

**CHILE****Cabo Carranza, Faro****Position:** 35°33'57"S 72°36'82"W**Call Sign:** CBT2**METAREA:** XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	2 738 kHz				
VHF	<b>B</b>	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0145, 1345	<b>A</b>	Present weather for: Cabo Carranza area.	Spanish
0150, 1350	<b>B</b>	Present weather for: Cabo Carranza area.	Spanish

**CHILE****Cabo Raper, Faro****Position:** 46°49'08"S 075°37'23"W**Call Sign:** CBM2**METAREA:** XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	2 738 kHz				
VHF	<b>B</b>	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0040, 0640, 1240, 1840	<b>A</b>	Present weather for: Cabo Cabo Raper area.	Spanish
0045, 0645, 1245, 1845	<b>B</b>	Present weather for: Cabo Cabo Raper area.	Spanish

**CHILE****Caldera****Position:** 27°03'58"S 070°49'23"W**Call Sign:** CBA**METAREA:** XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	2 738 kHz				
VHF	<b>B</b>	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0055, 1255	<b>A</b>	Forecast for areas 1 & 2.	Spanish
0105, 1305	<b>B</b>	Forecast for areas 1 & 2.	Spanish

**CHILE****Castro****Position:** 42°28'58"S 073°46'04"W**Call Sign:** CBP**METAREA:** XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	<b>A</b>	4 146 kHz				
RT (MF)	<b>A</b>	2 738 kHz				
VHF	<b>B</b>	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0050, 1250	<b>A</b>	Forecast for areas 6 & 7 and present weather for the Chiloé area.	Spanish
0105, 1305	<b>B</b>	Forecast for areas 6 & 7 and present weather for the Chiloé area.	Spanish



**CHILE****Chañaral****Position:** 26°21'00"S 070°38'20"W**Call Sign:** CBA**METAREA:** XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 738 kHz				
VHF	B	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0045, 1245	A	Forecast for area 1.	Spanish

**CHILE****Constitución****Position:** 36°20'10"S 072°25'13"W**Call Sign:** CBT21**METAREA:** XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (MF)	<b>A</b>	2 738 kHz				
VHF	<b>B</b>	Ch 14				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0250, 1450	<b>A</b>	Present weather for: Constitución area.	
0255, 1455	<b>B</b>	Present weather for: Constitución area.	

**CHILE****Coquimbo****Position:** 29°56'30"S 071°20'10"W**Call Sign:** CBA**METAREA:** XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	2 738 kHz				
VHF	<b>B</b>	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0045, 1245	<b>A</b>	Forecast for area 1 & 2.	Spanish
0055, 1255	<b>B</b>	Forecast for area 1 & 2.	Spanish

**CHILE****Diégo Ramirez****Position:** 56°31'24"S 068°42'36"W**Call Sign:** CBM**METAREA:** XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	2 738 kHz				
VHF	<b>B</b>	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0110, 1310	<b>A</b>	Forecast for Drake Passage.	Spanish
0120, 1320	<b>B</b>	Forecast for Drake Passage.	Spanish

**CHILE****Huasco****Position:** 28°27'40"S 071°13'30"W**Call Sign:** CBA24**METAREA:** XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	2 738 kHz				
VHF	<b>B</b>	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0045, 1245	<b>A</b>	Forecast for area 1.	Spanish
0055, 1255	<b>B</b>	Forecast for area 1.	Spanish

**CHILE****Iquique****Position:** 20°12'68"S 070°09'22"W**Call Sign:** CBA3**METAREA:** XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	2 738 kHz				
VHF	<b>B</b>	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0050, 1255	<b>A</b>	Forecast for area 1.	Spanish
0055, 1305	<b>B</b>	Forecast for area 1.	Spanish

**CHILE****Isla de Pascua Zonal Radio (Easter Island)****Position:** 27°08'98"S 109°26'22"W**Call Sign:** CBY**METAREA:** XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 738 kHz				
VHF	B	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0215, 1415	B	Forecast for Isla de Pacua.	Spanish
0225, 1425	A	Forecast for Isla de Pacua.	Spanish

**CHILE****Isla Guafo, Faro****Position:** 43°33'54"S 074°49'50"W**Call Sign:** CBP4**METAREA:** XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	2 738 kHz				
VHF	<b>B</b>	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0340, 0940, 1540, 2140	<b>A</b>	Present weather for the Isla Guafo area.	Spanish
0350, 0950, 1550, 2150	<b>B</b>	Present weather for the Isla Guafo area.	Spanish



**CHILE****Isla Mocha, Faro****Position:** 38°24'82"S 073°53'63"W**Call Sign:** CBT3**METAREA:** XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (MF)	<b>A</b>	2 738 kHz				
VHF	<b>B</b>	Ch 14				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0205, 1405	<b>A</b>	Forecast for Isla Mocha.	Spanish
0210, 1410	<b>B</b>	Forecast for Isla Mocha.	Spanish

**CHILE****Isla Quiriquina, Faro****Position:** 36°36'63"S 073°03'08"W**Call Sign:** CBT70**METAREA:** XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (MF)	A	2 738 kHz				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0155, 1355	A	Present weather for the Quiriquina area.	Spanish

**CHILE****Isla San Pedro****Position:** 47°42'39"S 074°53'35"W**Call Sign:** CBS**METAREA:** XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	2 738 kHz				
VHF	<b>B</b>	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0105, 1305	<b>A</b>	Forecast for Areas 6 & 7 and present weather for Isla San pedro and Golfo de Penas areas.	Spanish
0115, 1315	<b>B</b>	Forecast for Areas 6 & 7 and present weather for Isla San pedro and Golfo de Penas areas.	Spanish

**CHILE****Islote Fairway, Faro****Position:** 52°43'53"S 073°46'42"W**Call Sign:** CBM4**METAREA:** XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	2 738 kHz				
VHF	<b>B</b>	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0150, 1350	<b>A</b>	Present weather for Islote Fairway area with summaries for Felix and Evangelistas.	Spanish
0155, 1355	<b>B</b>	Present weather for Islote Fairway area with summaries for Felix and Evangelistas.	Spanish

**CHILE****Islotes Evangelistas, Faro****Position:** 52°23'07"S 075°05'54"W**Call Sign:** CBM**METAREA:** XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	2 738 kHz				
VHF	<b>B</b>	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0205, 1405	<b>A</b>	Present weather for the western Estrecho de Magallanes area with summary for Faro Fairway and Faro Felix.	Spanish
0210, 1410	<b>B</b>	Present weather for the western Estrecho de Magallanes area with summary for Faro Fairway and Faro Felix.	Spanish

**CHILE****Juan Fernández****Position:** 33°37'11"S 078°49'39"W**Call Sign:** CBF**METAREA:** XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	2 738 kHz				
VHF	<b>B</b>	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0205, 1405	<b>B</b>	Present weather for Isla Juan Fernández.	Spanish
0220, 1420	<b>A</b>	Present weather for Isla Juan Fernández.	Spanish

**CHILE****Magallanes Zonal Radio****Position:** 53°09'92"S 070°54'28"W**Call Sign:** CBM**METAREA:** XV**Area Covered:** East Pacific - Ocean areas south of 33°S between 20°W and 70°W.

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	2 738 kHz				
RT (HMF)	<b>B</b>	4 146 kHz				
VHF	<b>C</b>	Ch 10				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0010, 1210	<b>C</b>	Forecast for areas 6-8. Special forecast for areas Estrecho Nelson, Puerto Natales, Fairway, Froward - Dungeness, Punta Arenas, Dungeness - Wollaston, Canal Beagle, Nassau - Cabo de hornos, Cabo de Hornos.	Spanish
0035, 1235	<b>B</b>	Present weather for Faro Evangelistas and Faro Fairway areas.	Spanish
0035, 1235	<b>A</b>	Forecast for areas 6-8. Special forecast for areas Estrecho Nelson, Puerto Natales, Fairway, Froward - Dungeness, Punta Arenas, Dungeness - Wollaston, Canal Beagle, Nassau - Cabo de hornos, Cabo de Hornos.	Spanish

**CHILE****Puerto Aysén****Position:** 45°24'29"S 072°43'05"W**Call Sign:** CBP3**METAREA:** XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	2 738 kHz				
VHF	<b>B</b>	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0150, 1350	<b>A</b>	Local weather for the Puerto Aysén and lakes area.	Spanish
0205, 1405	<b>B</b>	Local weather for the Puerto Aysén and lakes area.	Spanish



**CHILE****Puerto Montt****Position:** 41°28'83"S 072°57'67"W**Call Sign:** CBP**METAREA:** XV**Area Covered:** East Pacific - Ocean areas south of 33°S between 20°W and 70°W.

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	<b>A</b>	4 146 kHz				
RT (MF)	<b>A</b>	2 738 kHz				
VHF	<b>B</b>	Ch 10				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1130, 2325	<b>A</b>	Forecast for areas 4-8 and present weather for Puerto Montt, Faro Corona, Faro Raper and Faro Guafo. Special forecast for areas Estrecho Nelson, Puerto Natales, Fairway, Froward - Dungeness, Punta Arenas, Dungeness - Wollaston, Canal Beagle, Nassau - Cabo de hornos, Cabo de Hornos.	Spanish
1150, 2345	<b>B</b>	Forecast for areas 4-8 and present weather for Puerto Montt, Faro Corona, Faro Raper and Faro Guafo. Special forecast for areas Estrecho Nelson, Puerto Natales, Fairway, Froward - Dungeness, Punta Arenas, Dungeness - Wollaston, Canal Beagle, Nassau - Cabo de hornos, Cabo de Hornos.	Spanish

**CHILE****Punta Corona, Faro****Position:** 41°47'04"S 073°52'33"W**Call Sign:** CBP70**METAREA:** XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	2 738 kHz				
VHF	<b>B</b>	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0045, 0645, 1245, 1845	<b>A</b>	Present weather for western Chacao Channel with summary for Puerto Montt and Isla Guafo.	Spanish
0050, 0650, 1250, 1850	<b>B</b>	Present weather for western Chacao Channel with summary for Puerto Montt and Isla Guafo.	Spanish

**CHILE****Punta Delgada****Position:** 52°27'12"S 069°33'15"W**Call Sign:** CBM5**METAREA:** XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	2 738 kHz				
VHF	<b>B</b>	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0150, 1350	<b>A</b>	Present weather for the eastern entrance to Estrecho de Magallanes.	Spanish
0155, 1355	<b>B</b>	Present weather for the eastern entrance to Estrecho de Magallanes.	Spanish

**CHILE****Punta Dungenes, Faro****Position:** 52°23'68"S 68°25'84"W**Call Sign:** CBM71**METAREA:** XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (MF)	<b>A</b>	2 738 kHz				
VHF	<b>B</b>	Ch 14				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0205, 1405	<b>A</b>	Present weather for the eastern entrance to Estrecho de Magallanes.	Spanish
0210, 1410	<b>B</b>	Present weather for the eastern entrance to Estrecho de Magallanes.	Spanish

**CHILE****San Antonio****Position:** 33°34'00"S 071°37'00"W**Call Sign:** CBV22**METAREA:** XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	2 738 kHz				
VHF	<b>B</b>	Ch 10				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0045, 1245	<b>A</b>	Forecast for areas 3.	Spanish
0055, 1255	<b>B</b>	Forecast for areas 3.	Spanish

**CHILE****Talcahuano Zonal Radio****Position:** 36°41'48"S 073°06'52"W**Call Sign:** CBT**METAREA:** XV**Area Covered:** East Pacific - Ocean areas south of 33°S between 20°W and 70°W.

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 738 kHz				
VHF	B	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0045, 1245	A	Forecast for areas 3-5.	Spanish
0055, 1255	B	Forecast for the Bahía Concepción area.	Spanish

**CHILE****Valparaiso Playa Ancha (Radio Centro de Telecomunicaciones Maritimas)****Position:** 33°04'70"S 071°36'80"W**Call Sign:** CBV**METAREA:** XV**Area Covered:** East Pacific - Ocean areas south of 33°S between 20°W and 70°W.

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (HF)	<b>A</b>	4 357 kHz				
RT (MF)	<b>A</b>	2 738 kHz				
VHF	<b>B</b>	Ch 10				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
1215, 2315	<b>A</b>	Forecast for Valparaiso Bay and areas 2,3. 8.	Spanish
1235, 2335	<b>B</b>	Storm warnings, synopsis, 24 hour forecast for Areas 1-6.	Spanish

**CHILE****Wollaston****Position:** 55°36'48"S 067°25'48"W**Call Sign:** CBN**METAREA:** XV**Area Covered:** Ocean areas south of 33°S between 20°W and 70°W.

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	2 738 kHz				
VHF	<b>B</b>	Ch 14				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0205, 1405	<b>A</b>	Present weather for Islas Wollaston.	Spanish
0210, 1410	<b>B</b>	Present weather for Islas Wollaston.	Spanish

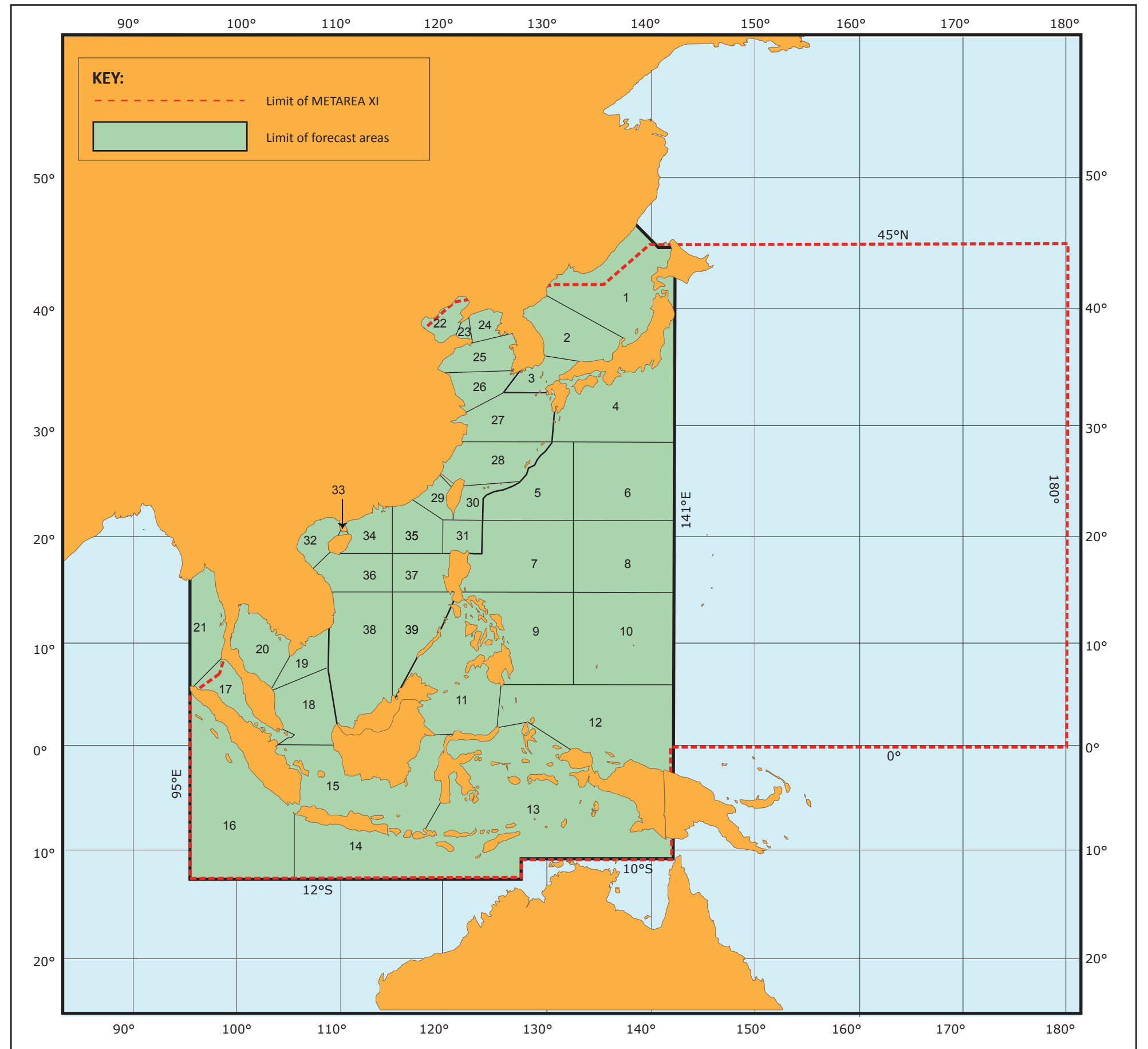


# CHINA

Forecast Areas

29 January 2015

Sub-area ID	Sub-area Name
1	Northeastern part of Japan Sea
2	Southwestern part of Japan Sea
3	Korea Strait
4	Sea south of Japan
5	Sea east of Ryukyu Islands
6	Sea west of Bonin Islans
7	Sea northeast of the Philippines
8	Sea west of Northern Mariana Islands
9	Sea southeast of the Philippines
10	Sea west of Guam
11	Sea southwest of the Philippines
12	Sea northeast of Indonesia
13	Sea southeast of Indonesia
14	Sea south of Jawa
15	Sea north of Jawa/Jawa Sea
16	Sea west of Sumatra
17	Malacca Strait
18	Sea east of Singapore
19	Sea south of Viet Nam
20	Gulf of Thailand
21	Andaman Sea
22	Bohai Sea
23	Bohai Strait
24	Northern Part of Yellow Sea
25	Central Part of Yellow Sea
26	Southern Part of Yellow Sea
27	Northern Part of East China Sea
28	Southern Part of East China Sea
29	Taiwan Strait
30	Sea East of Taiwan
31	Bashi Channel
32	Beibu Gulf
33	Qiongzhou Strait
34	Northwestern Part of South China Sea
35	Northeastern Part of South China Sea
36	West Central South China Sea
37	East Central South China Sea
38	Southwestern Part of South China Sea
39	Southeastern Part of South China Sea



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**CHINA****Guangzhou****Position:** 23°08'00"N 113°29'00"E**Call Sign:** XSQ**METAREA:** XI**Area Covered:** East/South China Sea  
Taiwan Straits, Bashi Channel, Nanhai Sea and Beibu Wan Gulf (Bac Bo Gulf) (see map)Ch70 (VHF)  
2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
WT (MF)	<b>A</b>	445 kHz				H24
WT (HF)	<b>B</b>	4 340 kHz				1000-2200
WT (HF)	<b>C</b>	6 382 kHz				2200-1000
WT (HF)	<b>D</b>	8 458 kHz				H24
WT (HF)	<b>E</b>	12 973 kHz				H24

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0030	<b>A,C-E</b>	Tropical storm warnings, 24 hour forecast.	English
0100	<b>A,C-E</b>	Tropical storm warnings, 24 hour forecast.	Chinese
0200, 0600, 0730	<b>A,C-E</b>	Navigational warnings for coastal waters of China S of 24°N.	Chinese
0248, 0448, 0848, 1048, 1448, 1648, 2048, 2248	<b>A-E</b>	Storm warnings. Navigational warnings for coastal waters of China S of 24°N.	Chinese, English
1230	<b>A-E</b>	Tropical storm warnings, 24 hour forecast.	English
1300	<b>A,B,D,E</b>	Tropical storm warnings, 24 hour forecast.	Chinese
1400	<b>A,B,D,E</b>	Navigational warnings for coastal waters of China S of 24°N.	Chinese

**CHINA****Shanghai****Position:** 31°06'00"N 121°32'00"E**Call Sign:** XSG**METAREA:** XI**Area Covered:** East/South China Sea  
Bohai Sea, Huanghai Sea, Donghai Sea, Shanghai Port, Taiwan Straits and sea areas around Taiwan province (see map)

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
WT (MF)	<b>A</b>	522.5 kHz				H24
WT (HF)	<b>B</b>	4 259 kHz				1000-2200
WT (HF)	<b>C</b>	17 103 kHz				-
WT (HF)	<b>C</b>	12 856 kHz				-
WT (HF)	<b>C</b>	8 665 kHz				-
WT (HF)	<b>C</b>	6 454 kHz				2200-1000

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0000, 0300, 0500, 0900, 1200, 1500, 1800, 2100	<b>A-C</b>	Navigational warnings.	Chinese
0100, 1400, 1700	<b>A-C</b>	Navigational warnings.	Chinese
0200, 0250, 0850, 1350, 2350	<b>A-C</b>	Navigational warnings.	English
0330, 0900	<b>A-C</b>	Gale warnings and 24 hour forecast.	English
0330, 0930	<b>A-C</b>	Gale warnings and 24 hour forecast.	Chinese

**CHINA****Tianjin****Position:** 39°03'00"N 117°25'00"E**Call Sign:** XSV**METAREA:** XI**Area Covered:** North and Central Huanghai Sea and the Bohai Sea (see map)

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
WT (HF)	<b>A</b>	12 969 kHz				H24
WT (HF)	<b>A</b>	8 600 kHz				H24
WT (HF)	<b>A</b>	4 283 kHz				1000-2200

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0230	<b>A</b>	Navigational warnings: For Bo Hai.	English
0230, 0600, 1300, 1830, 2200	<b>A</b>	Gale warnings.	Chinese, English
0600, 1300, 2100	<b>A</b>	Navigational warnings: For Bo Hai.	Chinese, English
0630, 1330	<b>A</b>	Navigational warnings: For Bo Hai.	Chinese

(1) After preliminary call on 500 kHz.

**COMOROS****Moroni****Position:** 12°08'24"S 044°15'00"E**Call Sign:** --**METAREA:** VII**Area Covered:** Comoro archipelago

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	3 331 kHz				
RT (HF)	<b>B</b>	7 260 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0930	<b>B</b>	Special cyclone bulletin.	French
Mon-Sat: 0400, 1700 Sun: 1700	<b>A</b>	Situation and 24 hour forecast for Comoro Islands.	French

**CONGO****Pointe Noire****Position:** 04°46'43"S 011°51'49"E**Call Sign:** --**METAREA:** II**Area Covered:**

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (MF)	A	2 705 kHz			4°47'S 11°52'E	

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0610, 0810, 1010, 1410, 1610	A	Navigational warnings: For coastal waters of Congo.	French

**COOK ISLANDS****Rarotonga****Position:** 21°12'00"S 159°49'00"W**Call Sign:** ZKR**METAREA:** X**Area Covered:**

24-hour watch

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 207 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0015, 0615, 1815	A	Forecast for Cook Islands coastal waters.	

**COSTA RICA****Radio Bahía, Puntarenas****Position:** 09°58'65"N 084°49'81"W**Call Sign:** --**METAREA:** XII**Area Covered:** (a) Coastal waters, (b) Pacific Ocean and Caribbean Sea, from 90°W to 80°W, 11°N to 5°N, including Coco island

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
	<b>A</b>	107.9 MHz				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
1300, 0100	<b>A</b>	Offshore and coastal marine forecast.	Spanish



**COSTA RICA****Radio Casino, Limón****Position:** 09°59'00"N 083°02'00"W**Call Sign:** --**METAREA:** IV**Area Covered:** (a) Coastal waters, (b) Pacific Ocean and Caribbean Sea, from 90°W to 80°W, 11°N to 5°N, including Coco island

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
	<b>A</b>	98.3 MHz				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
1300, 0000	<b>A</b>	Offshore and coastal marine forecast.	Spanish

**COSTA RICA****Radio Pampa, Guanacaste****Position:** 10°38'00"N 085°26'00"W**Call Sign:** --**METAREA:** XII**Area Covered:** (a) Coastal waters, (b) Pacific Ocean and Caribbean Sea, from 90°W to 80°W, 11°N to 5°N, including Coco Island.

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
	<b>A</b>	1 420 kHz				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
1200, 0100	<b>A</b>	Offshore and coastal marine forecast.	Spanish

**COTE D'IVOIRE****Abidjan Radio****Position:** 05°19'34"N 004°01'02"W**Call Sign:** TUA**METAREA:** II**Area Covered:**

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (MF)	A	2 586 kHz				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0848, 1248, 1948	A	Navigational warnings: For coastal waters of Ivory Coast.	French

# CROATIA

Weather Forecast Areas



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**CROATIA****Dubrovnik****Position:** 42°38'90"N 018°04'90"E**Call Sign:** 9AD**METAREA:** III**Area Covered:** Adriatic Sea (see map)

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	<b>A</b>	Ch 07		Srdj (Dubrovnik)	42°39'N 18°07'E	
VHF	<b>A</b>	Ch 85		Hum	42°45'N 17°29'E	

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0625, 1320, 2120	<b>A</b>	Weather bulletins for Adriatic sea. Navigational warnings: For coastal waters of Croatia.	Croatian, English

**CROATIA****Rijeka****Position:** 45°20'00"N 014°25'50"E**Call Sign:** 9AR**METAREA:** III**Area Covered:** Adriatic Sea (see map)

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	<b>A</b>	Ch 24		Vrh Ucka (Rijeka)	45°17'N 14°12'E	
VHF	<b>A</b>	Ch 20		Susak	44°31'N 14°12'E	
VHF	<b>A</b>	Ch 81		Savudrija	45°29'N 13°29'E	
VHF	<b>A</b>	Ch 04		Kamenjak (Otok Rab)	44°46'N 14°47'E	

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0535, 1435, 1935	<b>A</b>	Weather bulletins for Adriatic sea. Navigational warnings: For coastal waters of Croatia.	Croatian, English

**CROATIA****Split (Hvar I.)****Position:** 43°30'00"N 016°28'00"E**Call Sign:** 9AS**METAREA:** III**Area Covered:** Adriatic Sea (see map)

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	<b>A</b>	Ch 23		Vidova Gora (Otok Brac)	43°17'N 16°37'E	
VHF	<b>A</b>	Ch 07		Sveti Mihovil (Otok Ugljan)	44°04'N 15°10'E	
VHF	<b>A</b>	Ch 21		Labistica (Split)	43°35'N 16°13'E	
VHF	<b>A</b>	Ch 28		Celavac	44°16'N 15°47'E	
VHF	<b>A</b>	Ch 81		Hum (Otok Vis)	43°01'N 16°07'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0545, 1245, 1945	<b>A</b>	Weather bulletins for Adriatic sea. Navigational warnings: For coastal waters of Croatia.	Croatian, English

**CUBA**

**Cienfuegos**

**Position:** 22°08'00"N 080°27'00"W

**Call Sign:** --

**METAREA:** IV

**Area Covered:**

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (MF)	A	2 760 kHz				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
2305	A		Spanish

Note: Station temp inop (April 2005).



**CUBA****Habana****Position:** 23°10'00"N 082°19'00"W**Call Sign:** CLA, CLT**METAREA:** IV**Area Covered:** Cuba and surrounding waters

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 760 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0105, 1305	A	Hurricane warnings.	Spanish (1)
0403, 2203	A		Spanish
2310	A		Spanish

(1) After prior announcement on 2 182 kHz.

**CUBA**

**Santiago de Cuba**

**Position:** 20°01'00"N 075°50'00"W

**Call Sign:** --

**METAREA:** IV

**Area Covered:**

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (MF)	A	2 760 kHz				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
2340	A		Spanish

Note: Station temp inop (April 2005).

**CURAÇAO AND BONAIRE (NETHERLANDS ANTILLES)****Curaçao Radio (JRCC)****Position:** 12°10'00"N 068°52'00"W**Call Sign:** --**METAREA:** IV**Area Covered:** Caribbean Sea, Gulf of Mexico and the Atlantic south of 25°N and west of 45°W

Ch70 (VHF)

2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	2 182 kHz				
VHF	<b>B</b>	Ch16 26 27				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On request	<b>A, B</b>	Gale warnings, synopsis 24 hour, and 48 hour wind forecast, visibility and outlook forecast for Caribbean Sea.	English

Warnings are given from 15/07-14/11

**CYPRUS****Cyprus****Position:** 34°44'28"N 032°39'52"E**Call Sign:** 5BA**METAREA:** III**Area Covered:**

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 700 kHz			35°03'N 33°17'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt 0733, 1533	A	For Eastern Mediterranean.	

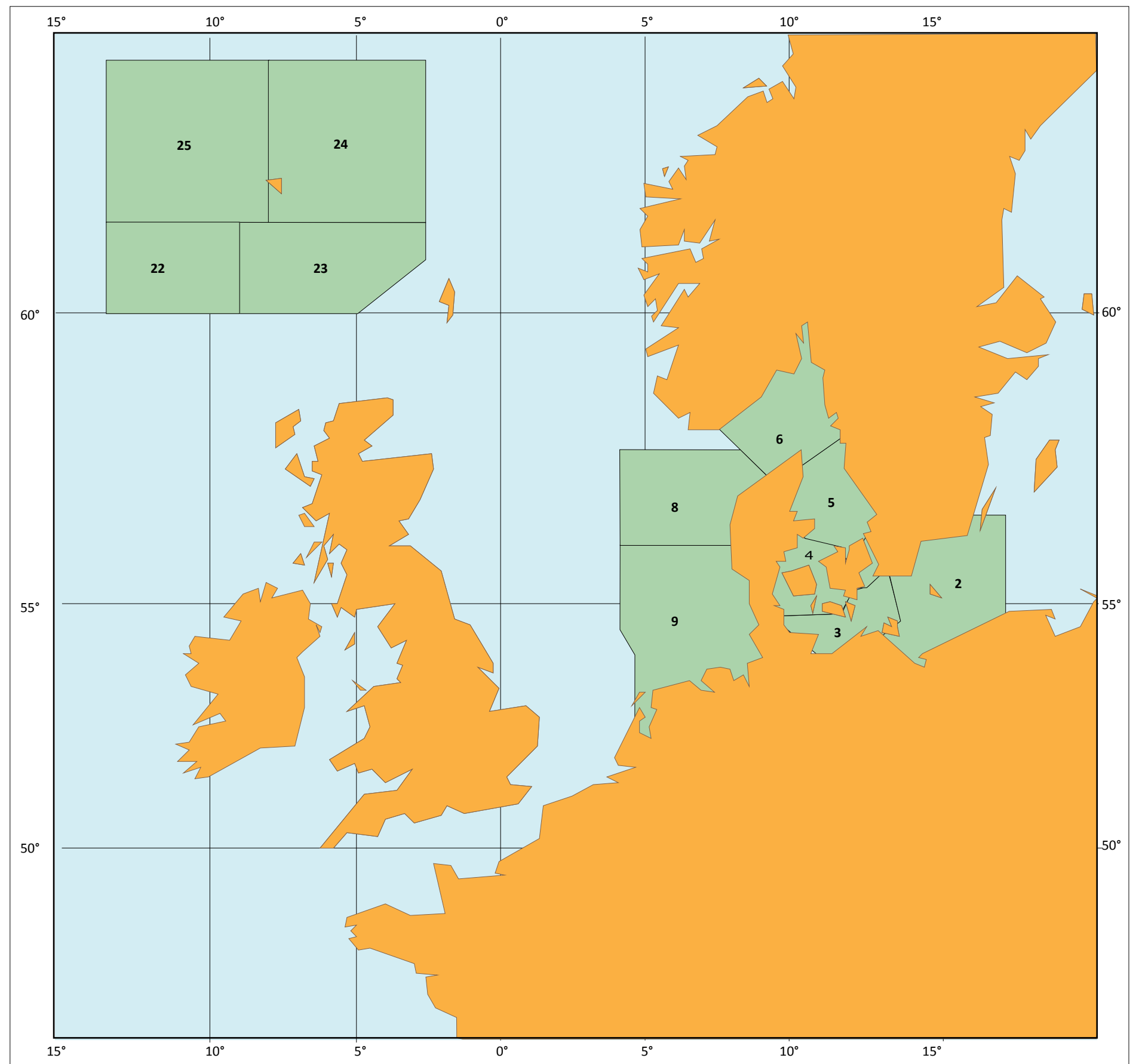
# DENMARK

## Forecast areas

12 January 2009

**KEY:**

ID	Description
2	OSTERSOEN OMKRING BORNHOLM
3	VESTLIGE STERS
4	BAELTHAVET OG SUNDET
5	KATTEGAT
6	SKAGERRAK
8	FISKER
9	TYSKEBUGT
22	YTRI
23	MUNKEGRUND
24	FUGLOY
25	ISLANDSRYGGEN



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**DENMARK AND FAROE ISLANDS****Lyngby****Position:** 55°01'18"N 010°36'35"E**Call Sign:** OXZ**METAREA:** I**Area Covered:** Danish coastal and internal waters

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	2 586 kHz		Ronne	55°02'N 15°06'E	
RT (MF)	<b>A</b>	1 758 kHz		Skagen	57°44'N 10°35'E	
RT (MF)	<b>A</b>	1 734 kHz		Blavand	55°33'N 08°07'E	
VHF	<b>B</b>	Ch 07		Als	54°58'N 09°33'E	
VHF	<b>C</b>	Ch 07		Anholt	56°42'N 11°35'E	
VHF	<b>D</b>	Ch 04		Arsballe	55°09'N 14°53'E	
VHF	<b>E</b>	Ch 23		Blavand	55°33'N 08°07'E	
VHF	<b>F</b>	Ch 02		Bovbjerg	56°32'N 08°10'E	
VHF	<b>G</b>	Ch 05		Fornaes	56°27'N 10°57'E	
VHF	<b>H</b>	Ch 03		Frejlev	57°00'N 0950'E	
VHF	<b>I</b>	Ch 01		Hanstholm	57°07'N 08°39'E	
VHF	<b>J</b>	Ch 66		Hirtshals	57°31'N 09°57'E	
VHF	<b>K</b>	Ch 28		Karleby	54°52'N 11°12'E	
VHF	<b>L</b>	Ch 03		Kobenhavn	55°41'N 12°37'E	
VHF	<b>M</b>	Ch 64		Laeso	57°17'N 11°03'E	
VHF	<b>N</b>	Ch 02		Mern (Mon)	55°03'N 11°59'E	
VHF	<b>O</b>	Ch 04		Rosnaes	55°44'N 10°55'E	
VHF	<b>P</b>	Ch 04		Skagen	57°44'N 10°35'E	
VHF	<b>Q</b>	Ch 01		Svendborg	55°02'N 10°37'E	
VHF	<b>R</b>	Ch 83		Vejby	56°05'N 12°08'E	
VHF	<b>S</b>	Ch 65		Vejle	55°40'N 09°30'E	

## DENMARK AND FAROE ISLANDS

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0133, 0533, 0933, 1333, 1733, 2133	<b>A-S</b>		English
0220, 0520, 0820, 1120, 1420, 1720, 2020, 2320	<b>C, G, K, M-P</b>	Navigational warnings: SHIPPOS information including positions of large vessels, actual watre levels and serial numbers of navigational warnings in force for Route T.	English, Danish
1305 (with traffic list broadcast)	<b>A</b>	Navigational warnings: Ice reports for Danish Waters in Baltic Ice Code.	English
On receipt	<b>B-S</b>	Gale and storm warnings for Areas: Area 1 on D Area 2 on D, N Area 3 on B, D, K, L, N, Q Area 4 on C, G, H, J, L, M, O, P, R, S Area 5 on C, G, H, L, M, O, P, R, S Area 6 on F, I, J, M, P Area 8 on E, F, I, J Area 9 on E, F	English, Danish
On receipt	<b>A</b>	Gale and storm warnings for all Areas.	English, Danish
On receipt	<b>A-S</b>	Storm warnings.	
On request	<b>A-S</b>	Gale warnings and forecast for all Areas.	English
On request	<b>A-S</b>	Navigational warnings: Ice reports for Danish Waters in Baltic Ice Code.	English

(1) Previous announcement on channel 16.

(2) Previous announcement on 2 182 kHz and channel 16.

**DENMARK AND FAROE ISLANDS****Tórshavn Radio (Faeroes)****Position:** 62°00'87"N 006°47'45"W**Call Sign:** OXJ**METAREA:** I**Area Covered:** Faroe Islands and surrounding waters

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

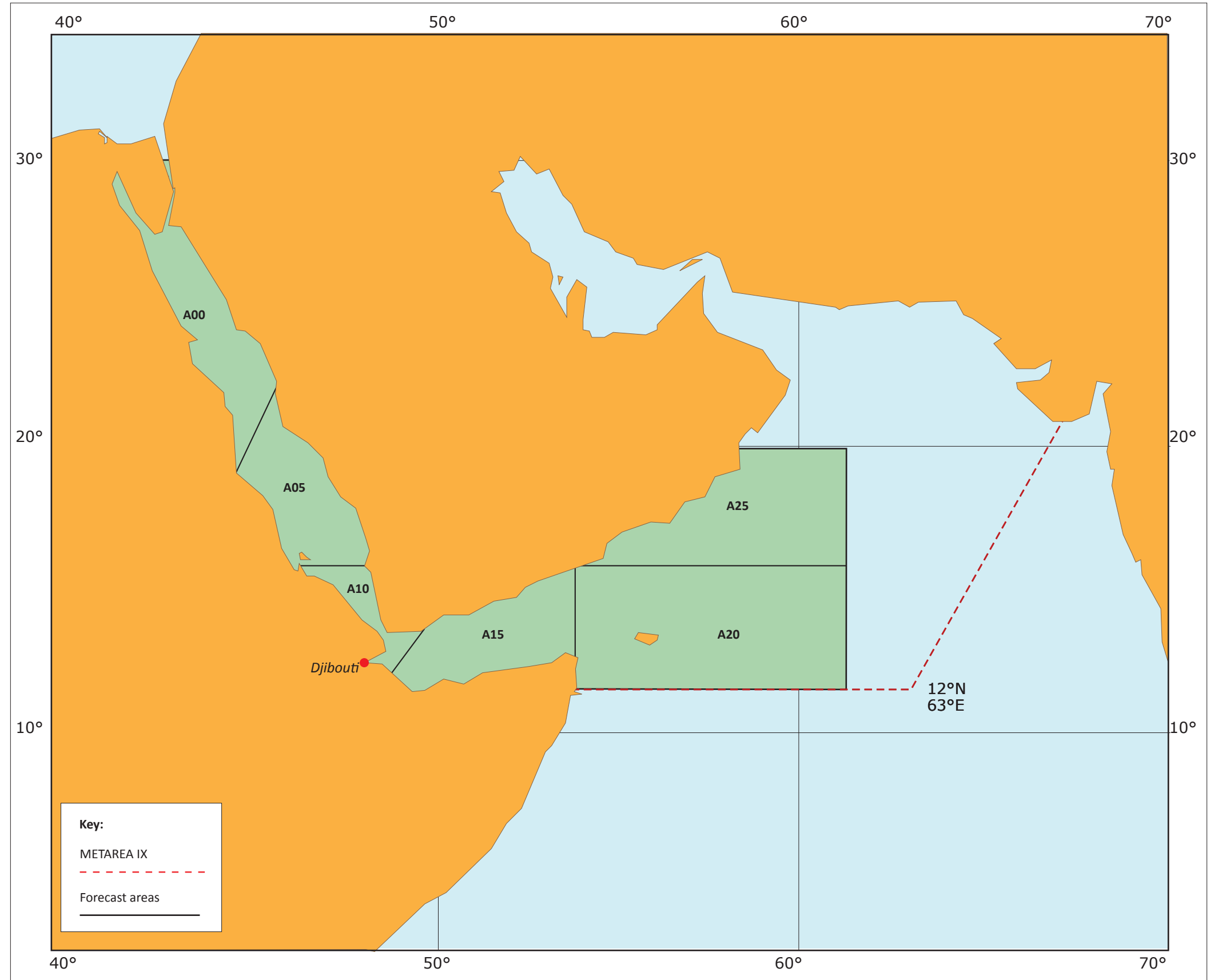
Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	1 641 kHz				
VHF	<b>B</b>	Ch 26		Tórshavn	62°01'N 06°49'W	
VHF	<b>B</b>	Ch 23		Suouroy	61°25'N 06°45'W	
VHF	<b>B</b>	Ch 25		Fugloy	62°20'N 06°19'W	
VHF	<b>B</b>	Ch 24		Fugloy	62°20'N 06°19'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
Every even H+35	<b>A, B</b>	Storm and gale warnings for Areas 16-19.	Faerøese, English
On receipt	<b>A, B</b>	Storm and gale warnings for Areas 16-19.	English
On request	<b>A</b>	Forecast for areas 16-19.	

List of stations:  
06011 Thorshavn  
06066 Stauning Flyveplads  
— Nolsø 61°58'N 06°37'W  
— Sumbø 61°24'N 06°42'W



**DJIBOUTI**  
Coastal Forecast Areas



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**DJIBOUTI****Djibouti****Position:** 11°35'41"N 043°08'49"E**Call Sign:** J2A**METAREA:** IX**Area Covered:** Red sea, gulf of Aden and Indian Ocean North of 10°S and West of 60°E (determination of areas: see map of weather forecast areas)

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
WT (MF)	A	464 kHz			11°35'N 43°07'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0430, 0900, 1700	A	12 hour forecast for Areas A00-A25. Navigational warnings: For coastal waters of Djibout, Red Sea and NW Indian Ocean.	French, English
On request (0600-1500)	A	Forecast for Areas D05, D15, D20.	French, English

**DOMINICAN REPUBLIC****Santo Domingo Piloto****Position:** 18°28'00"N 069°53'00"W**Call Sign:** --**METAREA:** IV**Area Covered:**

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (MF)	<b>A</b>	2 182 kHz				1100-0500
RT (MF)	<b>B</b>	2 638kHz				1100-0500
RT (MF)	<b>D</b>	2 738kHz				1100-0500
VHF	<b>E</b>	Ch 12				1100-0500

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0300, 1700 On request	<b>A-D</b>	Forecast for coastal waters of Dominican Republic.	
On receipt On request	<b>A-D</b>	Storm warnings for coastal waters of Dominican Republic.	Spanish
On request	<b>A-D</b>		Spanish, English

**ECUADOR****Guayaquil, Radio IOA (Instituto Oceanografico Armada) o Radio Naval****Position:** 02°11'00"S 079°53'00"W**Call Sign:** HCG**METAREA:** XII**Area Covered:** 2°N-4°S; 79°W-95°W

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
AM	A	1 515 kHz				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
1200	A	Meteorological information in process.	Text SHIP SYNOP

**ESTONIA****Tallinn****Position:** 59°28'00"N 024°21'00"E**Call Sign:** UAH, UNS**METAREA:** I**Area Covered:** N.Sea/Gulf of Bothania/Finland  
Baltic Sea Areas 5-10

Watch hours on: 2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	450 kHz			59°28'N 24°21'E	(UNS)
RT (MF)	<b>B</b>	6 405 kHz			59°28'N 24°21'E	(UAH)

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1030	<b>A, B</b>	Summary and forecast of synoptic situation valid for 24 hours. Forecast of weather and sea waves valid for 24 hours. Summary and forecast of ice conditions for 24 hours. Forecast of weather for the following 2 days. Weather forecast valid for 3 days for Norwegian and North Seas.	Estonian repeated in English
2040	<b>A</b>	Summary and forecast of synoptic situation valid for 24 hours. Forecast of weather and sea waves valid for 24 hours. Summary and forecast of ice conditions for 24 hours.	Estonian repeated in English

**FIJI****Suva****Position:** 18°08'00"S 178°26'00"E**Call Sign:** 3DP**METAREA:** XIV**Area Covered:** Sea areas from 5°N to 25°S between 160°E and 180° and from the Equator to 25°S between 180° and 120°W.

Watch hours on: 2187.5 kHz (MF)

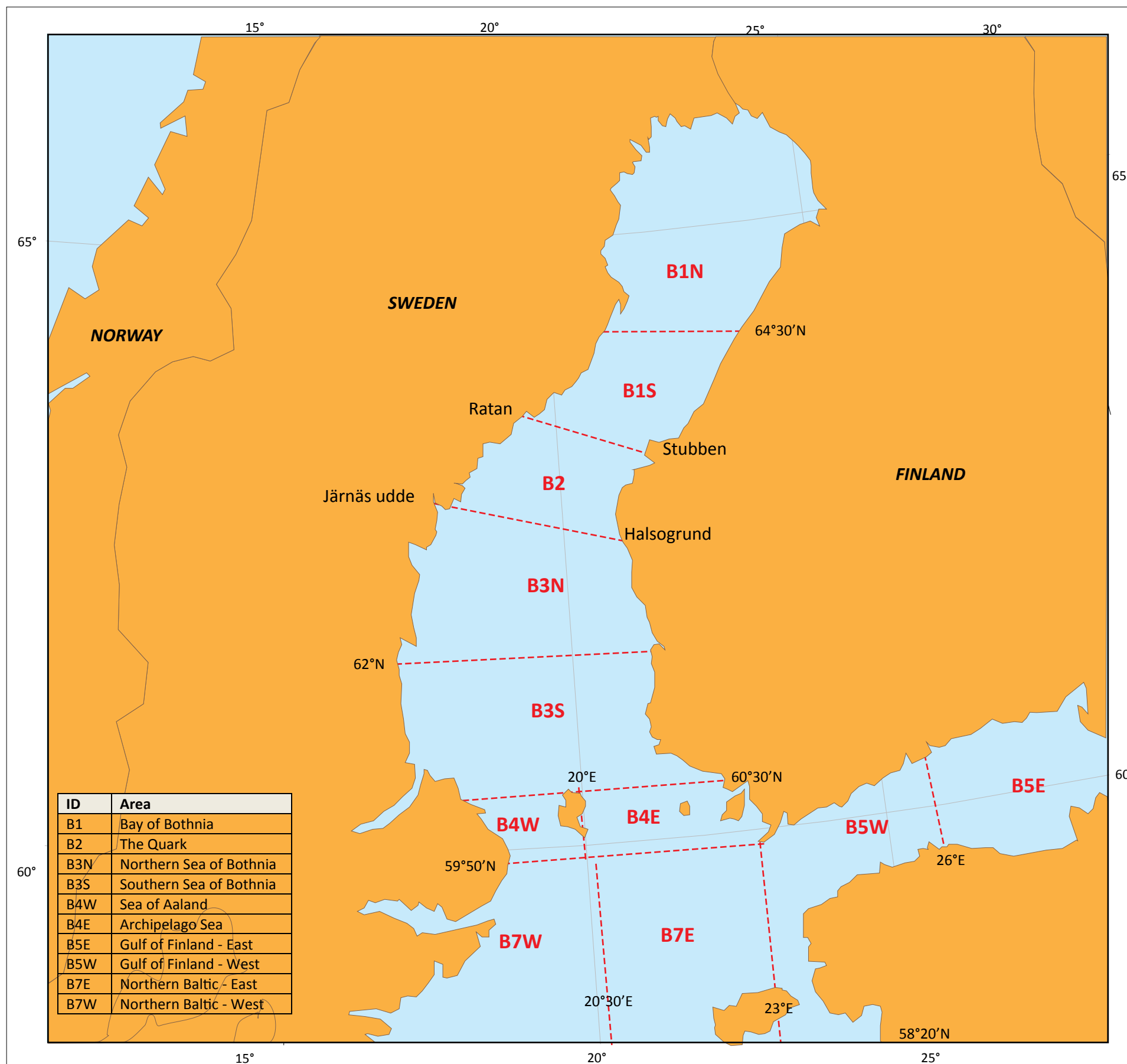
Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	<b>A</b>	4 372 kHz				
RT (HF)	<b>B</b>	8 746 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0803, 1203, 1603, 2003 LT	<b>A, B</b>	Forecast for coastal waters of Fiji.	
On receipt At the end of the next silence period. Every H+03	<b>A, B</b>	Cyclone and storm warnings for coastal waters of Fiji.	

# FINLAND

Weather Forecast Areas

10 May 2011



**FINLAND****Turku (MRCC)****Position:** 60°26'22"N 022°13'35"E**Call Sign:** OFK**METAREA:** I**Area Covered:**

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	2 810 kHz		Helsinki	60°09'N 25°02'E	
RT (MF)	<b>A</b>	1 677 kHz		Mariehamn	60°07'N 19°57'E	
RT (MF)	<b>A</b>	1 638 kHz		Vaasa	63°18'N 21°06'E	
RT (MF)	<b>A</b>	1 719 kHz		Hailuoto	65°02'N 24°35'E	
VHF	<b>B</b>	Ch 26		Kemi	65°47'N 24°33'E	
VHF	<b>B</b>	Ch 86		Brando	60°25'N 21°03'E	
VHF	<b>B</b>	Ch 27		Hailuoto	65°02'N 24°35'E	
VHF	<b>B</b>	Ch 03		Hanko	59°50'N 22°56'E	
VHF	<b>B</b>	Ch 84		Kalajoki	64°18'N 24°11'E	
VHF	<b>B</b>	Ch 68		Turku	60°09'N 21°42'E	
VHF	<b>B</b>	Ch 28		Kokkola	63°50'N 23°09'E	
VHF	<b>B</b>	Ch 23		Korppoo	60°10'N 21°33'E	
VHF	<b>B</b>	Ch 25		Kotka	60°29'N 26°52'E	
VHF	<b>B</b>	Ch 04		Porkkala	59°59'N 24°26'E	
VHF	<b>B</b>	Ch 01		Sondby (Porvoo)	60°16'N 25°51'E	
VHF	<b>B</b>	Ch 02 26		Turku	60°27'N 22°20'E	
VHF	<b>B</b>	Ch 05		Helsinki	60°09'N 25°02'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0233, 0633, 1033, 1433, 1833, 2233	<b>A,B</b>	Navigational warnings: Coastal warnings in English. Local warnings.	English, Swedish, Finnish
0633, 1833	<b>A,B</b>	Forecast for Areas 1-5 and 7 including wave heights in the Northern Baltic.	English
0803	<b>A,B</b>	Navigational warnings: Ice breakers positions.	English
1033, 1833	<b>A,B</b>	Navigational warnings: Ice reports and icebreaker positions.	English
On receipt 0233, 0633, 1033, 1433, 1833, 2233	<b>A,B</b>	Gale warnings for Areas 1-5 and 7.	English



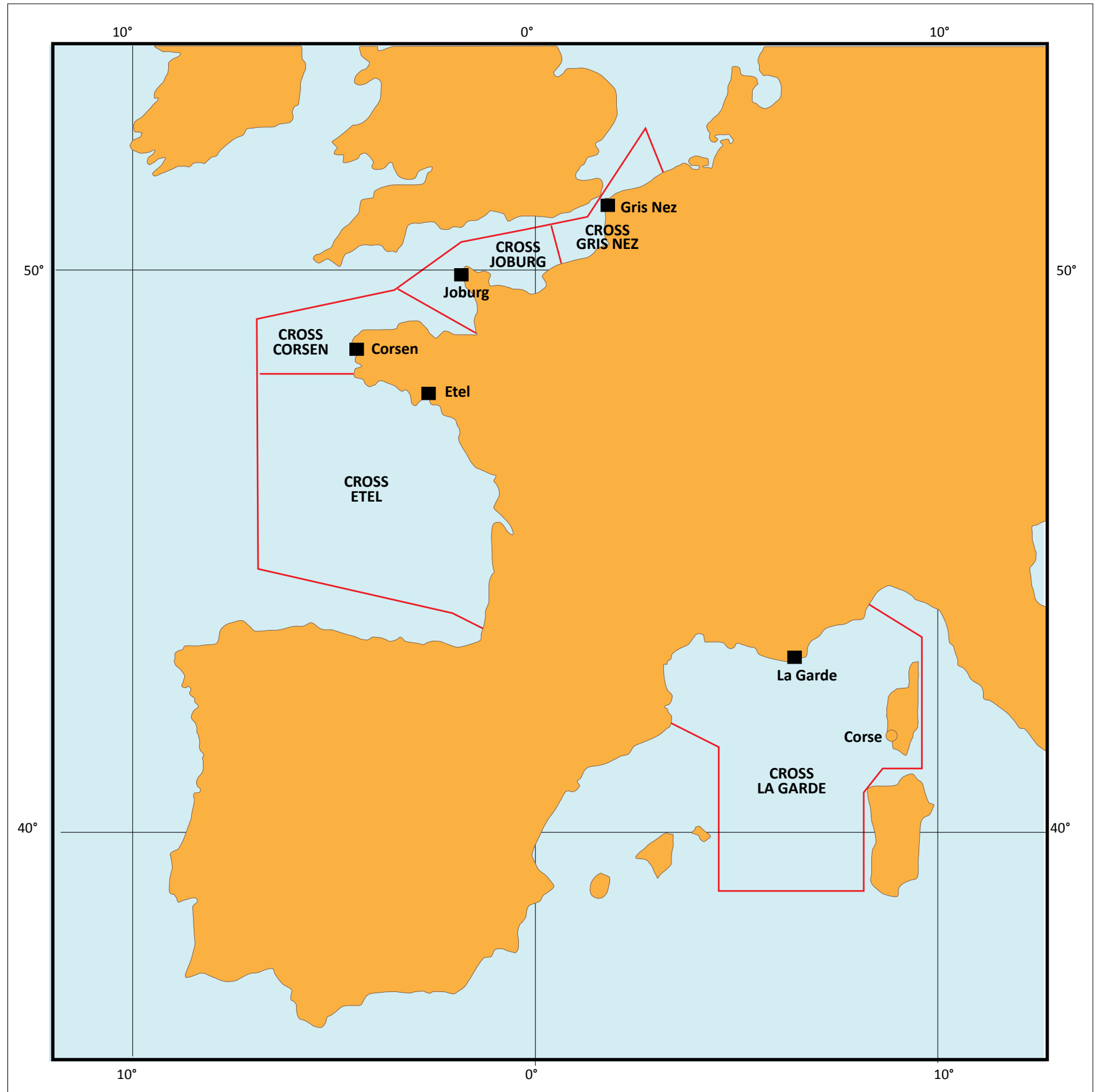
# FRANCE

Areas of responsibility of  
Centres Régionaux Opérationnels de Surveillance et de Sauvetage (CROSS) stations

30 October 2016

**KEY:**

- CROSS stations
- Sous-CROSS stations (sub-centre CROSS stations)

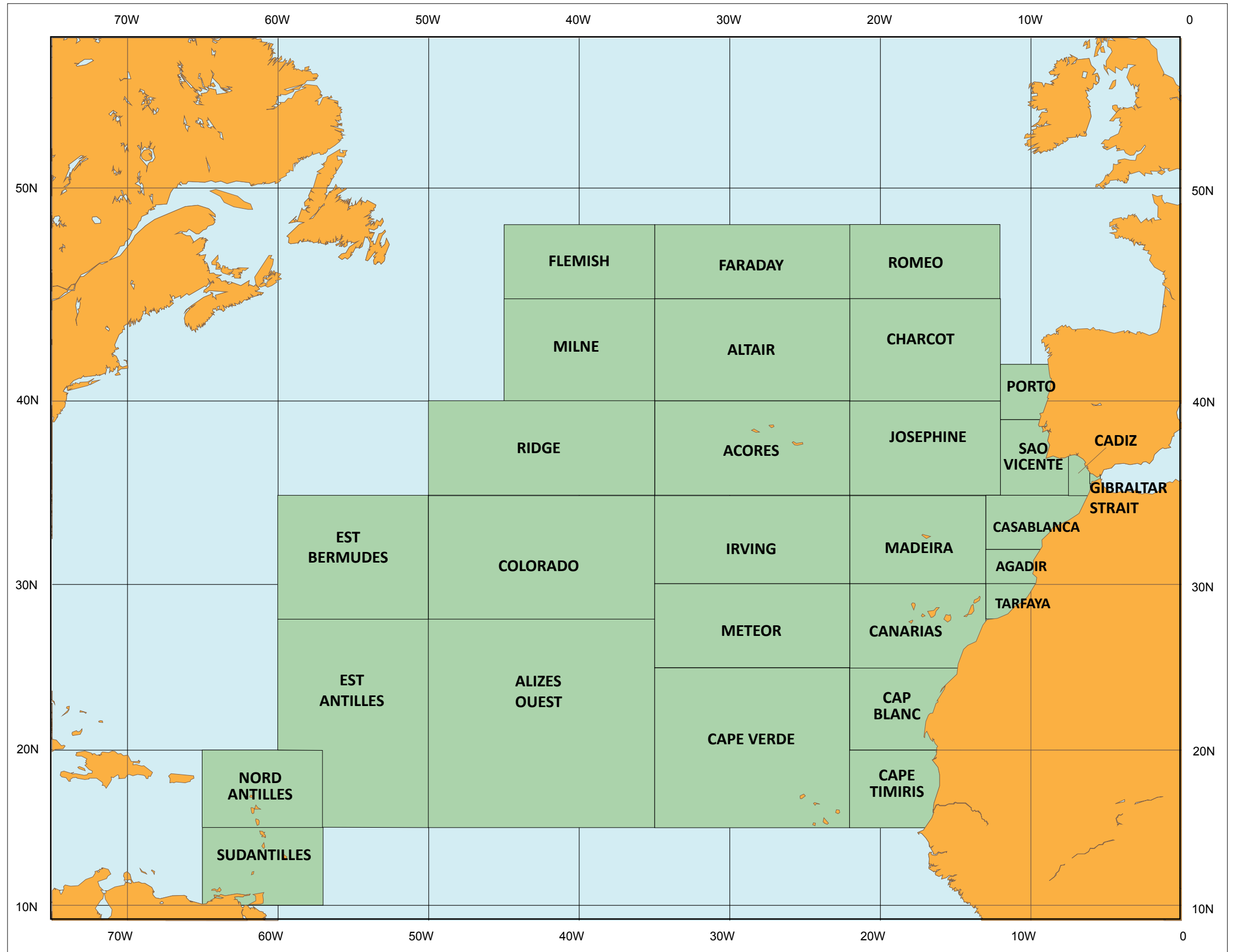


The designations employed and the presentation of material in this publication do not imply the expression of any opinion whatsoever on the part of the Secretariat of WMO concerning the legal status of any country, territory, city or area, or of its authorities, or concerning the delimitation of its frontiers or boundaries.

# FRANCE

Radio France Internationale

## Atlantic Forecast areas



The designations employed and the presentation of material in this publication do not imply the expression of any opinion whatsoever on the part of the Secretariat of WMO concerning the legal status of any country, territory, city or area, or of its authorities, or concerning the delimitation of its frontiers or boundaries.

**FRANCE****Corsen (CROSS) (MRCC)****Position:** 48°24'84"N 004°46'98"W**Call Sign:** --**METAREA:** II**Area Covered:** BULLETINS FOR OFFSHORE / HIGH SEAS AREAS:

Area Covered: West of Channel and Atlantic:

(a) Casquets; (e) Rochebonne; (i) Sole; (m) Irish Sea; (b) Ouessant; (f) Cantabrico; (j) Shannon; (n) Rockall; (c) Iroise; (g) Finisterre; (k) Fastnet; (o) Malin; (d) Yeu, (h) Pazenn; (l) Lundy; (p) Hebrides.

BULLETINS FOR COASTAL AREAS:

"Coastal Waters" bulletins extend up to 20 n miles from the coast. The area covered extends along the coasts from Metropolitan France, Corsica included.

Scheduled bulletins and warnings for coastal areas are broadcast on VHF, in French.

Coastal warnings (BMS - Bulletins Météorologiques Spéciaux) are broadcast whenever the wind has risen to or is forecast to rise to Near Gale force 7 within coastal waters (Coastal BMS) instead of Gale force 8 in high seas and distant waters (Offshore BMS).

Scheduled bulletins consist of a repeat of any BMS warning in force, a description of the synoptic situation, a detailed forecast for the following 24 hours (wind, sea state, visibility), further weather trends dependent on the forecast and where appropriate reports from signal stations.

Broadcasts transmitted on Channel 16 before being broadcast on the scheduled frequency.

Coastal BMS are systematically transmitted at every hour, starting at H+03 (simultaneous broadcasting is not possible), on all VHF transmitters.

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF reception)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	1 650 kHz (1)		Corsen	48°24'N – 04°47'W	
RT (MF)	<b>B</b>	2 677 kHz (1)		Corsen	48°24'N – 04°47'W	
VHF	<b>C</b>	Ch 79		Raz	48°02'N – 04°43'W	
VHF	<b>D</b>	Ch 79		Ouessant / Le Stiff	48°28'N – 05°03'W	
VHF	<b>E</b>	Ch 79		Batz	48°45'N – 04°02'W	
VHF	<b>F</b>	Ch 79		Bodic / Le Trieux	48°48'N – 03°05'W	
VHF	<b>G</b>	Ch 79		Cap Fréhel	48°41'N – 02°19'W	

## FRANCE

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0445, 0703, 1303(*), 1903 LT	<b>C</b>	BULLETINS FOR COASTAL AREAS: From La Hague to Penmarc'h: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
0503, 0715, 1315(*), 1915 LT	<b>D</b>	BULLETINS FOR COASTAL AREAS: From La Hague to Penmarc'h: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
0515, 0733, 1333(*), 1933 LT	<b>E</b>	BULLETINS FOR COASTAL AREAS: From La Hague to Penmarc'h: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
0533, 0745, 1345(*), 1945 LT	<b>F</b>	BULLETINS FOR COASTAL AREAS: From La Hague to Penmarc'h: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
0545, 0803, 1403(*), 2003 LT	<b>G</b>	BULLETINS FOR COASTAL AREAS: From La Hague to Penmarc'h: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
0815, 2015 LT (2)	<b>A, B</b>	BULLETINS FOR OFFSHORE / HIGH SEAS AREAS: Repetition: Gale/Storm warnings. General situation and development. Forecast for areas (a) to (p), valid for the following 24 hours. Further weather outlook.	French
On receipt Every H+03	<b>C-G</b>	BULLETINS FOR COASTAL AREAS: From La Hague to Penmarc'h: Coastal BMS warnings.	French
On receipt. Every 2 hours thereafter until end of validity at every even H+03(2) LT	<b>A, B</b>	BULLETINS FOR OFFSHORE / HIGH SEAS AREAS: Gale/Storm warnings (BMS - Bulletins Météorologiques Spéciaux) for areas (a) to (p).	French

### Notes:

CROSS = Centres Régionaux Opérationnels de Surveillance et de Sauvetage

(1) After preliminary call on 2 182 kHz. The normal working frequency can be replaced, if necessary, by an alternative frequency indicated during the preliminary call on 2 182 kHz.

(2) Scheduled broadcasts may be suspended whilst SAR action is in progress.

(\*) From 1 May to 30 September.

**FRANCE****Étel (CROSS) (MRCC)****Position:** 47°39'73"N 003°12'11"W**Call Sign:** --**METAREA:** II**Area Covered:**

BULLETINS FOR COASTAL AREAS:

"Coastal Waters" bulletins extend up to 20 n miles from the coast. The area covered extends along the coasts from Metropolitan France, Corsica included.

Scheduled bulletins and warnings for coastal areas are broadcast on VHF, in French.

Coastal BMS warnings (BMS - Bulletins Météorologiques Spéciaux) are broadcast whenever the wind has risen to or is forecast to rise to Near Gale force 7 within coastal waters (Coastal BMS) instead of Gale force 8 in high seas and distant waters (Offshore BMS).

Scheduled bulletins consist of a repeat of any BMS warning in force, a description of the synoptic situation, a detailed forecast for the following 24 hours (wind, sea state, visibility), further weather trends dependent on the forecast and where appropriate reports from signal stations.

Broadcasts transmitted on Channel 16 before being broadcast on the scheduled frequency.

Coastal BMS warnings are systematically transmitted at every hour, starting at H+03 (simultaneous broadcasting is not possible), on all VHF transmitters.

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	<b>A</b>	Ch 80		Penmarc'h	47°48'N - 04°22'W	
VHF	<b>B</b>	Ch 80		Groix	47°39'N - 03°30'W	
VHF	<b>C</b>	Ch 80		Belle-Île	47°19'N - 03°14'W	
VHF	<b>D</b>	Ch 80		Saint-Nazaire	47°28'N - 02°21'W	
VHF	<b>E</b>	Ch 80		Yeu	46°43'N - 02°23'W	
VHF	<b>F</b>	Ch 80		Les Sables d'Olonne	46°29'N - 01°48'W	
VHF	<b>G</b>	Ch 79		Chassiron	46°03'N - 01°25'W	
VHF	<b>H</b>	Ch 79		Soulac / Pointe de Grave	45°31'N - 01°07'W	
VHF	<b>I</b>	Ch 79		Cap Ferret	44°39'N - 01°15'W	
VHF	<b>J</b>	Ch 79		Contis	44°06'N - 01°19'W	
VHF	<b>K</b>	Ch 79		Biarritz	43°30'N - 01°33'W	
VHF	<b>L</b>	Ch 63		Étel	47°40'N - 03°12'W	
VHF	<b>M</b>	Ch 63		Chassiron	46°03'N - 01°25'W	

## FRANCE

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0703, 1303, 1903 LT	<b>G</b>	BULLETINS FOR COASTAL AREAS: l'Anse de l'Aiguillon to the Spanish border: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours	French
0703, 1303, 1903 LT	<b>A</b>	BULLETINS FOR COASTAL AREAS from Penmarc'h to l'Anse de l'Aiguillon: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours	French
0715, 1315, 1915 LT	<b>H</b>	BULLETINS FOR COASTAL AREAS: l'Anse de l'Aiguillon to the Spanish border: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours	French
0715, 1315, 1915 LT	<b>B</b>	BULLETINS FOR COASTAL AREAS from Penmarc'h to l'Anse de l'Aiguillon: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
0733, 1333, 1933 LT	<b>I</b>	BULLETINS FOR COASTAL AREAS: l'Anse de l'Aiguillon to the Spanish border: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours	French
0733, 1333, 1933 LT	<b>C</b>	BULLETINS FOR COASTAL AREAS from Penmarc'h to l'Anse de l'Aiguillon: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
0745, 1345, 1945 LT	<b>J</b>	BULLETINS FOR COASTAL AREAS: l'Anse de l'Aiguillon to the Spanish border: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours	French
0745, 1345, 1945 LT	<b>D</b>	BULLETINS FOR COASTAL AREAS from Penmarc'h to l'Anse de l'Aiguillon: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
0803, 1403, 2002 LT	<b>E</b>	BULLETINS FOR COASTAL AREAS from Penmarc'h to l'Anse de l'Aiguillon: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
0803, 1403, 2003 LT	<b>K</b>	BULLETINS FOR COASTAL AREAS: l'Anse de l'Aiguillon to the Spanish border: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours	French
0815, 1415, 2015 LT	<b>F</b>	BULLETINS FOR COASTAL AREAS from Penmarc'h to l'Anse de l'Aiguillon: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
Continuous broadcast every 6 mn	<b>M</b>	BULLETINS FOR COASTAL AREAS: l'Anse de l'Aiguillon to the Spanish border: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours	French
Continuous broadcast every 6 mn	<b>L</b>	BULLETINS FOR COASTAL AREAS: from Penmarc'h to l'Anse de l'Aiguillon: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
On receipt Every H+03	<b>G-K, M</b>	BULLETINS FOR COASTAL AREAS: l'Anse de l'Aiguillon to the Spanish border: Coastal BMS warnings	French
On receipt Every H+03	<b>A-F, L</b>	BULLETINS FOR COASTAL AREAS from Penmarc'h to l'Anse de l'Aiguillon: Coastal BMS warnings	French

### NOTES:

CROSS = Centres Régionaux Opérationnels de Surveillance et de Sauvetage.

**FRANCE****Gris-Nez (CROSS) (MRCC)****Position:** 49°51'49"N 000°41'59"E**Call Sign:** --**METAREA:** I

**Area Covered:** BULLETINS FOR OFFSHORE / HIGH SEAS AREAS:  
 Area Covered: South of the Nord Sea and Channel:  
 (a) Humber; (c) Pas de Calais; (e) Casquets; (b) Tamise; (d) Antifer; (f) Ouessant  
 Coastal Waters from the Belgian border to La Hague

**BULLETINS FOR COASTAL AREAS:**

"Coastal Waters" bulletins extend up to 20 n miles from the coast. The area covered extends along the coasts from Metropolitan France, Corsica included.

Scheduled bulletins and warnings for coastal areas are broadcast on VHF, in French.

Coastal BMS warnings (BMS - Bulletins Météorologiques Spéciaux) are broadcast whenever the wind has risen to or is forecast to rise to Near Gale force 7 within coastal waters (Coastal BMS) instead of Gale force 8 in high seas and distant waters (Offshore BMS).

Scheduled bulletins consist of a repeat of any BMS warning in force, a description of the synoptic situation, a detailed forecast for the following 24 hours (wind, sea state, visibility), further weather trends dependent on the forecast and where appropriate reports from signal stations.

Broadcasts transmitted on Channel 16 before being broadcast on the scheduled frequency.

Coastal BMS warnings are systematically transmitted at every hour, starting at H+03 (simultaneous broadcasting is not possible), on all VHF transmitters.

24-hour watch

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	1 650 kHz (1)		Gris-Nez	50°52'N – 01°35'E	
RT (MF)	<b>B</b>	2 677 kHz (2)		Gris-Nez	50°52'N – 01°35'E	
VHF	<b>C</b>	Ch 79		Dunkerque	51°03'N – 02°21'E	
VHF	<b>D</b>	Ch 79		Saint-Frieux / Gris-Nez	50°37'N – 01°36'E	
VHF	<b>E</b>	Ch 79		Saint-Valéry-en-Caux / L'Ailly	49°51'N – 00°42'E	

## FRANCE

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0703, 1303, 1903 LT	<b>E</b>	BULLETINS FOR COASTAL AREAS from la Baie de Somme to La Hague: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
0710, 1310, 1910 LT	<b>D</b>	BULLETINS FOR COASTAL AREAS from the Belgian border to la Baie de Somme: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
0720, 1320, 1920 LT	<b>C</b>	BULLETINS FOR COASTAL AREAS from the Belgian border to la Baie de Somme: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
0833, 2033 LT (2)	<b>A, B</b>	BULLETINS FOR OFFSHORE / HIGH SEAS AREAS: Repetition: Gale/Storm warnings. General situation and development. Forecast for areas (a) to (f), valid for the following 24 hours. Further weather outlook.	French
On receipt Every H+03	<b>E</b>	BULLETINS FOR COASTAL AREAS from la Baie de Somme to La Hague: Coastal BMS warnings.	French
On receipt Every H+03	<b>C-D</b>	BULLETINS FOR COASTAL AREAS from the Belgian border to la Baie de Somme: Coastal BMS warnings.	French
On receipt. Every 2 hours thereafter until end of validity at every odd H+03(2) LT	<b>A, B</b>	BULLETINS FOR OFFSHORE / HIGH SEAS AREAS: Gale/Storm warnings (BMS - Bulletins Météorologiques Spéciaux) for areas (a) to (d) (3).	French

### Notes:

CROSS = Centres Régionaux Opérationnels de Surveillance et de Sauvetage

(1) After preliminary call on 2 182 kHz. The normal working frequency can be replaced, if necessary, by an alternative frequency indicated during the preliminary call on 2 182 kHz.

(2) Scheduled broadcasts may be suspended whilst SAR action is in progress.

(3) Warnings for areas (e) and (f) are broadcast by CROSS Corsen.



**FRANCE****Jobourg (CROSS) (MRCC)****Position:** 49°41'00"N 001°54'50"W**Call Sign:** --**METAREA:** I**Area Covered:** BULLETINS FOR OFFSHORE / HIGH SEAS AREAS:

Area Covered: Central Channel

(a) Casquets; (b) Antifer

BULLETINS FOR COASTAL AREAS:

"Coastal Waters" bulletins extend up to 20 n miles from the coast. The area covered extends along the coasts from Metropolitan France, Corsica included.

Scheduled bulletins and warnings for coastal areas are broadcast on VHF, in French.

Coastal BMS warnings (BMS - Bulletins Météorologiques Spéciaux) are broadcast whenever the wind has risen to or is forecast to rise to Near Gale force 7 within coastal waters (Coastal BMS) instead of Gale force 8 in high seas and distant waters (Offshore BMS).

Scheduled bulletins consist of a repeat of any BMS warning in force, a description of the synoptic situation, a detailed forecast for the following 24 hours (wind, sea state, visibility), further weather trends dependent on the forecast and where appropriate reports from signal stations.

Broadcasts transmitted on Channel 16 before being broadcast on the scheduled frequency.

Coastal BMS warnings are systematically transmitted at every hour, starting at H+03 (simultaneous broadcasting is not possible), on all VHF transmitters.

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	<b>A</b>	Ch 80		Jobourg Trafic	49°41'N – 01°54'E	
VHF	<b>B</b>	Ch 80		Antifer	49°31'N – 00°10'E	
VHF	<b>C</b>	Ch 80		Port-en-Bessin	49°21'N – 00°45'W	
VHF	<b>D</b>	Ch 80		Jobourg / La Hague	49°41'N – 01°54'W	
VHF	<b>E</b>	Ch 80		Granville	48°50'N – 01°36'W	

## FRANCE

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0703, 1333, 1903 LT	<b>E</b>	BULLETINS FOR COASTAL AREAS: from La Hague to Penmarc'h: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
0715, 1315, 1915 LT	<b>D</b>	BULLETINS FOR COASTAL AREAS: from La Hague to Penmarc'h: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
0733, 1333, 1933 LT	<b>D</b>	BULLETINS FOR COASTAL AREAS from la Baie de Somme to La Hague: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
0745, 1345, 1945 LT	<b>C</b>	BULLETINS FOR COASTAL AREAS from la Baie de Somme to La Hague: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
0803, 1303, 2003 LT	<b>B</b>	BULLETINS FOR COASTAL AREAS from la Baie de Somme to La Hague: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	English
On receipt Every H+03	<b>D-E</b>	BULLETINS FOR COASTAL AREAS: from La Hague to Penmarc'h: Coastal BMS warnings.	French
On receipt Every H+03	<b>B-D</b>	BULLETINS FOR COASTAL AREAS from la Baie de Somme to La Hague: Coastal BMS warnings.	French
On receipt. Every H+20, H+50	<b>A</b>	BULLETINS FOR OFFSHORE / HIGH SEAS AREAS from la Baie de Somme to La Hague: Gale/Storm warnings (BMS - Bulletins Météorologiques Spéciaux) for areas (a) and (b).	English

### NOTES:

CROSS = Centres Régionaux Operationnels de Surveillance et du Sauvetage

**FRANCE****La Garde (CROSS) (MRCC)****Position:** 43°06'32"N 005°59'35"E**Call Sign:** --**METAREA:** III**Area Covered:** BULLETINS FOR OFFSHORE / HIGH SEAS AREAS:

Area Covered: Northern part of the Western Mediterranean Sea:

(a) Est Cabrera; (c) Minorque; (e) Provence; (g) Corse; (i) Maddalena; (b) Baléares; (d) Lion; (f) Ligure; (h) Sardaigne; (j) Elbe

BULLETINS FOR COASTAL AREAS:

"Coastal Waters" bulletins extend up to 20 n miles from the coast. The area covered extends along the coasts from Metropolitan France, Corsica included.

Scheduled bulletins and warnings for coastal areas are broadcast on VHF, in French.

Coastal BMS warnings (BMS - Bulletins Météorologiques Spéciaux) are broadcast whenever the wind has risen to or is forecast to rise to Near Gale force 7 within coastal waters (Coastal BMS) instead of Gale force 8 in high seas and distant waters (Offshore BMS).

Scheduled bulletins consist of a repeat of any BMS warning in force, a description of the synoptic situation, a detailed forecast for the following 24 hours (wind, sea state, visibility), further weather trends dependent on the forecast and where appropriate reports from signal stations.

Broadcasts transmitted on Channel 16 before being broadcast on the scheduled frequency.

Coastal BMS warnings are systematically transmitted at every hour, starting at H+03 (simultaneous broadcasting is not possible), on all VHF transmitters.

Watch hours on: 2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	1 696 kHz (1)		Porquerolles	42°59'N – 06°12'E	
RT (MF)	<b>A</b>	1 696 kHz (1)		La Garde (backup facility)	43°06'N – 05°59'E	
RT (MF)	<b>B</b>	2 677 kHz (1)		Porquerolles	42°59'N – 06°12'E	
RT (MF)	<b>B</b>	2 677 kHz (1)		La Garde (backup facility)	43°06'N – 05°59'E	
VHF	<b>C</b>	Ch 64		Pic de Néoulos / Port Vendres	42°29'N – 02°56'E	
VHF	<b>D</b>	Ch 79		Mont Saint-Loup / Agde	43°18'N – 03°30'E	
VHF	<b>E</b>	Ch 80		Phare de l'île du Planier	43°12'N – 05°14'E	
VHF	<b>F</b>	Ch 80		Cap Camarat	43°12'N – 06°40'E	
VHF	<b>G</b>	Ch 63		Mont Coudon / Toulon	43°10'N – 06°00'E	
VHF	<b>H</b>	Ch 64		Pic de l'Ours / Cannes	43°28'N – 06°54'E	
VHF	<b>I</b>	Ch 79		Ersa / Cap Corse	42°58'N – 09°23'E	
VHF	<b>J</b>	Ch 79		Serra di Pigno / Bastia	42°41'N – 09°24'E	
VHF	<b>K</b>	Ch 79		Conça / Porto Vecchio	41°44'N – 09°23'E	
VHF	<b>L</b>	Ch 79		Serragia / Pointe Roccapina	41°31'N – 08°58'E	
VHF	<b>M</b>	Ch 79		La Punta/ Ajaccio	41°57'N – 08°42'E	
VHF	<b>N</b>	Ch 79		Piana/ Golfe de Porto	42°14'N – 08°37'E	

**FRANCE**

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0715, 1315, 1915 LT	<b>D</b>	BULLETINS FOR COASTAL AREAS: Languedoc-Roussillon (from Spanish border to Port-Camargue): Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
0733, 1333, 1933 LT	<b>E</b>	BULLETINS FOR COASTAL AREAS: Provence (from Port Camargue to Saint-Raphaël): Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
0733, 1333, 1933 LT	<b>I</b>	BULLETINS FOR COASTAL AREAS: Côte d'Azur (from Saint-Raphaël to Menton) Coast of Corsica: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
0745, 1345, 1945 LT	<b>J</b>	BULLETINS FOR COASTAL AREAS: Côte d'Azur (from Saint-Raphaël to Menton) Coast of Corsica: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours	French
0746, 1346, 1946 LT	<b>F</b>	BULLETINS FOR COASTAL AREAS: Provence (from Port Camargue to Saint-Raphaël): Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
0803, 1403, 2003 LT	<b>K</b>	BULLETINS FOR COASTAL AREAS: Côte d'Azur (from Saint-Raphaël to Menton) Coast of Corsica: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
0815, 1415, 2015 LT	<b>L</b>	BULLETINS FOR COASTAL AREAS: Côte d'Azur (from Saint-Raphaël to Menton) Coast of Corsica: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
0833, 1433, 2033 LT	<b>M</b>	BULLETINS FOR COASTAL AREAS: Côte d'Azur (from Saint-Raphaël to Menton) Coast of Corsica: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
0845, 1445, 2045 LT	<b>N</b>	BULLETINS FOR COASTAL AREAS: Côte d'Azur (from Saint-Raphaël to Menton) Coast of Corsica: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
1000, 1600, 2200 LT (2)	<b>A, B</b>	BULLETINS FOR OFFSHORE / HIGH SEAS AREAS: Repetition: Gale/Storm warnings. General situation and development. Forecast for areas (a) to (j), valid for the following 24 hours. Further weather outlook.	French
Continuous broadcast every 15 mn	<b>C</b>	BULLETINS FOR COASTAL AREAS: Languedoc-Roussillon (from Spanish border to Port-Camargue): Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
Continuous broadcast every 15 mn	<b>H</b>	BULLETINS FOR COASTAL AREAS: Côte d'Azur (from Saint-Raphaël to Menton) Coast of Corsica: Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
Continuous broadcast every 15 mn	<b>G</b>	BULLETINS FOR COASTAL AREAS: Provence (from Port Camargue to Saint-Raphaël): Gale/Storm warnings, situation, 24 hour forecast and outlook for a further 24 hours.	French
On receipt Every H+03	<b>C-N</b>	BULLETINS FOR COASTAL AREAS: All Mediterranean coastal areas: Coastal BMS warnings.	French
On receipt. Every 4 hours thereafter until end of validity at H+03 (1, 5, 9, 13, 17, 21 LT)	<b>A, B</b>	BULLETINS FOR OFFSHORE / HIGH SEAS AREAS: Gale/Storm warnings (BMS - Bulletins Météorologiques Spéciaux) for areas (a) to (j).	French

## **FRANCE**

### Notes:

CROSS = Centres Régionaux Opérationnels de Surveillance et de Sauvetage

(1) After preliminary call on 2 182 kHz. The normal working frequency can be replaced, if necessary, by an alternative frequency indicated during the preliminary call on 2 182 kHz.

(2) Scheduled broadcasts may be suspended whilst SAR action is in progress.

**FRENCH POLYNESIA****Mahina (Tahiti)****Position:** 17°30'00"S 149°29'00"W**Call Sign:** FJA**METAREA:** XIV**Area Covered:** Between 8°S and 28°S and from 134°W to 155°W

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	2 620 kHz				
RT (HF)	<b>B</b>	8 803 kHz				
VHF	<b>C</b>	Ch 27	Île du vent			
VHF	<b>C</b>	Ch 26	Île sous le vent			

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0640 LT	<b>B,C</b>	The summary of islands' observations contains: "name of stations, cloud amount and present weather, wind direction and speed state of sea near the coasts".	French
0700 LT	<b>A,C</b>	The summary of islands' observations contains: "name of stations, cloud amount and present weather, wind direction and speed state of sea near the coasts". In French.	French
2100 LT	<b>B,C</b>	Gale/storm warnings. Forecasts valid 24 hours (1).	French
2200 LT	<b>A,C</b>	Gale/storm warnings. Forecasts valid 24 hours (1).	French

## List of Stations:

91925 Atuona; 91930 Bora-Bora; 91938 Tahiti-Faaa; 91943 Takaroa; 91944 Hao; 91945 Hereheretue; 91946 Tureia; 91948 Rikitea; 91952 Mururoa; 91954 Tubuai; 91958 Rapa

(1) A gale/storm warning will precede or replace the forecasts when the forecast mean wind exceeds 25 knots. This warning will mention:

- the indication on the type of disturbance;
- the date and the time UTC;
- the type of disturbance, its position and movement;
- the area affected;
- the direction and force of wind in various sections of the area affected;
- further indications, if any

This warning is also broadcast, both on VHF and HF, at 0403, 1803 and 1833 UTC.

# GERMANY

Forecast Areas

**KEY:**

**ATLANTIC**

- A1 Western Gibraltar
- A2 Portuguese coast
- A3 Finisterre
- A4 Bay of Biscay
- A5 English Channel Eastern Part
- A6 English Channel Western Part
- A7 Southern Ireland
- A8 Irish Sea
- A9 Hebrides
- A10 Pentlands
- A11 Svinoy
- A20 Shetlands
- A21 Faroes
- A26 Dohrn bank

**NORTH SEA**

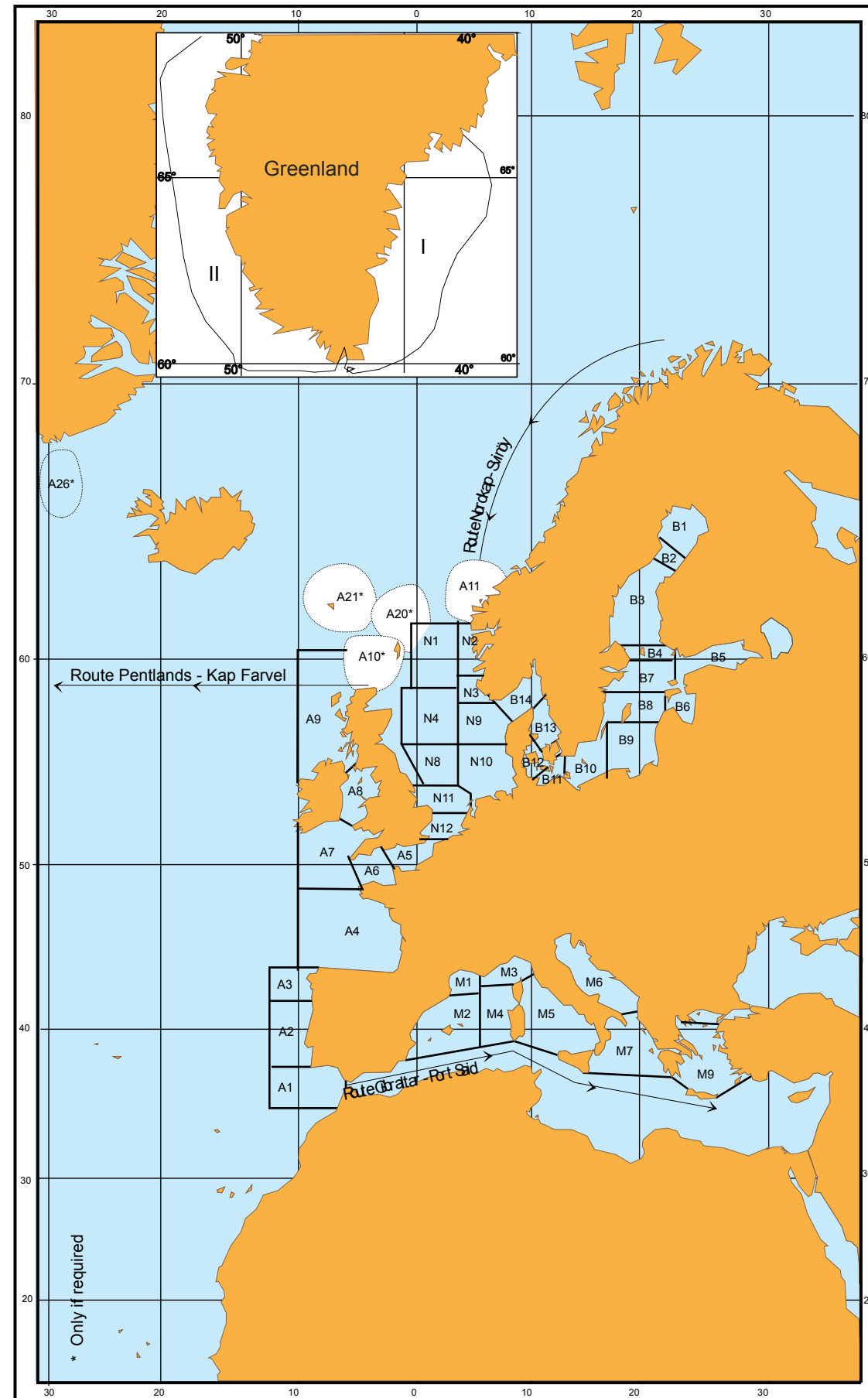
- N1 Viking
- N2 North Utsire ) Utsire
- N3 South Utsire ) Utsire
- N4 Forties
- N8 Dogger
- N9 Fisher
- N10 German Bight
- N11 Humber) South-west North Sea
- N12 Thames) South-west North Sea

**BALTIC SEA**

- B1 Bay of Bothnia
- B2 The Quark
- B3 Sea of Bothnia
- B4 Sea of Aaland and Archipelago
- B5 Gulf of Finland
- B6 Gulf of Riga
- B7 Northern part of Baltic Sea
- B8 Central part of Baltic Sea
- B9 South eastern part of Baltic Sea
- B10 Southern part of Baltic Sea
- B11 Western part of Baltic Sea
- B12 Belts and Sound
- B13 Kattegat
- B14 Skagerrak

**MEDITERRANEAN:**

- M1 Golfe du Lion
- M2 Balearic Islands
- M3 Ligurian Sea
- M4 West Corsica - Sardinia
- M5 Tyrrhenian Sea
- M6 Adria
- M7 Ionian Sea
- M9 Aegean sea
- I Southeastern Greenland
- II Southwestern Greenland



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**GERMANY****Bremen Radio (MRCC)****Position:** 53°05'00"N 008°48'00"E**Call Sign:** --**METAREA:** I**Area Covered:** North sea coast & Baltic coast

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	<b>A</b>	Ch 16		Sylt	54°55'N 08°18'E	
VHF	<b>A</b>	Ch 16		Eiderstedt	54°20'N 08°47'E	
VHF	<b>A</b>	Ch 16		Hamburg	53°33'N 09°58'E	
VHF	<b>A</b>	Ch 16		Helgoland	54°11'N 07°53'E	
VHF	<b>A</b>	Ch 16		Bremen	53°05'N 08°48'E	
VHF	<b>A</b>	Ch 16		Cuxhaen	53°50'N 08°39'E	
VHF	<b>A</b>	Ch 16		Norddeich	53°34'N 07°06'E	
VHF	<b>B</b>	Ch 16		Rugen	54°21'N 13°45'E	
VHF	<b>B</b>	Ch 16		Arkona	54°35'N 13°37'E	
VHF	<b>B</b>	Ch 16		Darss	54°24'N 12°27'E	
VHF	<b>B</b>	Ch 16		Rostock	54°10'N 12°06'E	
VHF	<b>B</b>	Ch 16		Lubeck	54°13'N 10°43'E	
VHF	<b>B</b>	Ch 16		Kiel	54°18'N 10°07'E	
VHF	<b>B</b>	Ch 16		Flensburg	54°44'N 09°30'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt Repeated every H+00 & H+30 until cancelled	<b>A, B</b>	Vital warnings for the Baltic and North Sea coasts of Germany.	



**GHANA****Tema Radio****Position:** 05°38'00"N 000°00'00"E**Call Sign:** 9GX**METAREA:** II**Area Covered:** North sea coast

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	1 674 kHz				
RT (HF)	<b>B</b>	8 791 kHz (Ch 825)				
VHF	<b>C</b>	Ch 26		Takoradi	04°54'N 01°45'W	
VHF	<b>D</b>	Ch 27		Tema	05°38'N 00°00'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0800, 2000	<b>C</b>	Storm warnings and 24 hour forecast that may be repeated after 12 hours, for the offshore and coastal waters of Ghana. Navigational warnings: For the offshore and coastal waters of Ghana.	
0830, 2030	<b>D</b>	Storm warnings and 24 hour forecast that may be repeated after 12 hours, for the offshore and coastal waters of Ghana. Navigational warnings: For the offshore and coastal waters of Ghana.	
0900, 2100	<b>B</b>	Storm warnings and 24 hour forecast that may be repeated after 12 hours, for the offshore and coastal waters of Ghana. Navigational warnings: For the offshore and coastal waters of Ghana.	
0905, 2105 after traffic lists	<b>A</b>	Storm warnings and 24 hour forecast that may be repeated after 12 hours, for the offshore and coastal waters of Ghana. Navigational warnings: For the offshore and coastal waters of Ghana.	
On receipt	<b>A, B</b>	Storm warnings. Navigational warnings: For the offshore and coastal waters of Ghana.	

**GREECE****Irakleio (Kriti)****Position:** 35°19'33"N 025°44'92"E**Call Sign:** SVH**METAREA:** III**Area Covered:** Kithira Sea, SW Kritiko, SE Kritiko, Kastellorizo Sea, Rodos Sea, Karpathio, W Kritiko, E Kritiko, SW Aegean, SE Aegean Ikario, Samos Sea, Saronikos, Evvoikos, Kafireas Strait, C Aegean.

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (MF)	A	2 799 kHz				0703-0903-1533-2133

**GREECE**

**Kerkyra**

**Position:** 39°45'00"N 019°52'00"E

**Call Sign:** SVK

**METAREA:** III

**Area Covered:** S Adriatic, N Ionio, S Ionio, Patraikos, Korinthiakos, Kithira

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (MF)	A	2 830 kHz				0703-0903-1533-2133

**GREECE**

**Limnos**

**Position:** 39°52'00"N 025°04'00"E

**Call Sign:** SVL

**METAREA:** III

**Area Covered:** Samos Sea, Saronikos, S Evvoikos, Kafireas Strait, Central Aegean, NW Aegean, NE Aegean, Thrakiko, Thermaikos

Watch hours on: 2187.5 kHz (MF)

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (MF)	A	2 730 kHz				0703-0903-1533-2133

**GREECE**

**Rodos**

**Position:** 36°16'00"N 027°56'00"E

**Call Sign:** SVR

**METAREA:** III

**Area Covered:**

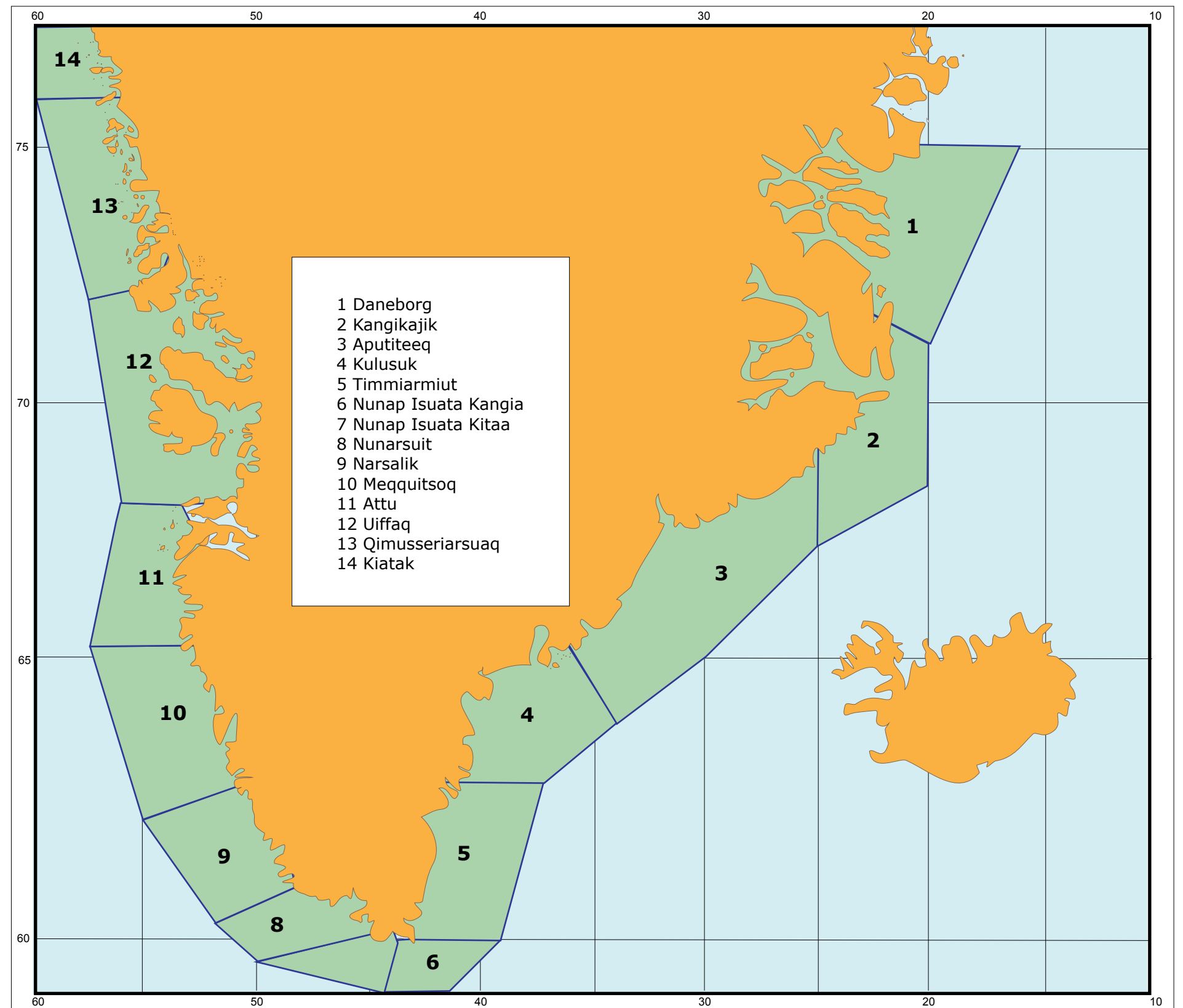
Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (MF)	A	2 624 kHz				0703-0903-1533-2133

# GREENLAND

## Weather forecast areas

13 October 2010



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**GREENLAND (KALAALLIT NUNAAT)****Aasiaat****Position:** 68°41'00"N 052°50'00"W**Call Sign:** OYR**METAREA:** I**Area Covered:** Greenland coastal waters. Weather forecast areas: Meqquitsoq, Attu, Uiffaq, Qimusseriarsuaq and Thule, see map.

Watch hours on Ch 2187.5 kHz

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	3 280 kHz		Uummannaq	70°47'N 52°07'W	
RT (MF)	<b>A</b>	2 265 kHz		Ikerasassuaq	60°04'N 43°10'W	
RT (MF)	<b>A</b>	6 522 kHz		Aasiaat	68°41'N 52°50'W	
RT (MF)	<b>A</b>	3 276 kHz		Upernavik	72°47'N 56°09'W	
RT (MF)	<b>A</b>	3 125 kHz		Sisimiut	66°55'N 53°40'W	
RT (MF)	<b>A</b>	2 129 kHz		Simiutaq	60°41'N 46°36'W	
RT (MF)	<b>A</b>	2 304 kHz		Qeqertarsuaq	69°14'N 53°31'W	
RT (MF)	<b>A</b>	2 225 kHz		Paamiut	62°00'N 49°43'W	
RT (MF)	<b>A</b>	2 400 kHz		Maniitsoq	65°24'N 53°52'W	
RT (MF)	<b>A</b>	2 116 kHz		Kook Island	64°04'N 52°01'W	
RT (MF)	<b>A</b>	4 381 kHz		Qeqertarsuaq	69°14'N 53°31'W	
VHF	<b>B</b>	Ch 25		Maniitsoq	65°24'N 53°52'W	
VHF	<b>B</b>	Ch 27		Aasiaat	68°41'N 52°50'W	
VHF	<b>B</b>	Ch 27		Arsuutaa	61°09'N 48°22'W	
VHF	<b>B</b>	Ch 28		Attup Uummannaq	67°58'N 53°47'W	
VHF	<b>B</b>	Ch 01		Ikerasassuaq	60°04'N 43°10'W	
VHF	<b>B</b>	Ch 25		Ilulissat	69°13'N 51°07'W	
VHF	<b>B</b>	Ch 24		Kangaamiut	65°50'N 53°21'W	
VHF	<b>B</b>	Ch 04		Qaarsorsuaq	72°42'N 56°05'W	
VHF	<b>B</b>	Ch 03		Uummannaq	70°47'N 52°07'W	
VHF	<b>B</b>	Ch 63		Uperniviuq Qaqqaa	71°10'N 52°57'W	
VHF	<b>B</b>	Ch 03		Top 775	60°01'N 44°34'W	
VHF	<b>B</b>	Ch 60		Tinumanersuaq	74°06'N 57°12'W	
VHF	<b>B</b>	Ch 01		Sisimiut	66°55'N 53°40'W	
VHF	<b>B</b>	Ch 28		Sermersooq	60°13'N 45°22'W	
VHF	<b>B</b>	Ch 03 04		Qingaaq	64°10'N 51°13'W	
VHF	<b>B</b>	Ch 28		Kangaarsuk	62°59'N 50°32'W	
VHF	<b>B</b>	Ch 26		Qaqatoqaaq	66°38'N 52°50'W	
VHF	<b>B</b>	Ch 26		Kook Island	64°04'N 52°01'W	
VHF	<b>B</b>	Ch 24		Pingu	68°47'N 52°03'W	
VHF	<b>B</b>	Ch 23		Paamiut	62°00'N 49°43'W	
VHF	<b>B</b>	Ch 02		Niaqornaq	70°26'N 54°00'W	
VHF	<b>B</b>	Ch 23		Narsarsuaq	61°09'N 45°26'W	
VHF	<b>B</b>	Ch 24		Narsaq	60°54'N 46°01'W	

**GREENLAND (KALAALLIT NUNAAT)**

VHF	<b>B</b>	Ch 25	Nanortalik	60°09'N 45°15'W
VHF	<b>B</b>	Ch 23	Uunartuarsuup Qaqqaa	69°16'N 53°32'W
VHF	<b>B</b>	Ch 02 25	Qaqortoq	60°43'N 46°02'W

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0805, 1305, 1805, 2305(1)	<b>A, B</b>	Storm and gale warnings for Areas 5-14.	English, Greenlandic, Danish(2)
On receipt 0135, 0435, 0735, 1035, 1335, 1635, 1935, 2235 After Traffic Lists for the following 48 hours.	<b>A</b>	Navigational warnings: For areas 3-6.	English, Danish
On request	<b>A, B</b>	18 hour forecast for all Greenland areas. Navigational warnings: Ice reports (English and Danish only).	English, Greenlandic, Danish

(1) Broadcasts given 1 hour earlier when DST is in force.

(2) Scheduled warnings will be announced on 2182 kHz and Ch 16, other warnings will announced on DSC, then 2182 kHz and Ch 16 then read on the working frequencies. Repeated after the silence period more than half an hour from the first transmission.



**GUADELOUPE, ST. MARTIN, ST. BARTHELEMY****ADRASEC (Guadeloupe)****Position:** --**Call Sign:** --**METAREA:** IV

**Area Covered:** Area 1: 25 miles around the coast.  
 Area 2: 10°N-20°N, 50°W-70°W.  
 Area 3: 10°N-20°N, 57°W-65°W.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
AM	<b>A</b>	3 700 kHz				1 Jul - 31 Oct
AM	<b>B</b>	7 050 kHz				1 Jul - 31 Oct

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0003	<b>A, B</b>	Area 2: Special advisories or bulletins. Dangerous meteorological phenomena. Area 3: Marine bulletin for the high seas: Storm warnings, weather summary, forecast for 24 hours from Trinidad to the Virgin Islands.	French

**GUADELOUPE, ST. MARTIN, ST. BARTHELEMY****Guadeloupe (CROSSAG)****Position:** --**Call Sign:** --**METAREA:** IV**Area Covered:** Area 1: 25 miles around the coast.

Area 2: 10°N-20°N, 50°W-70°W.

Area 3: 10°N-20°N, 57°W-65°W.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
AM	<b>A</b>	Call:2182 Bcst:254	Guadeloupe			
FM	<b>B</b>	Call:Ch16 Bcst:Ch1	Guadeloupe			
FM	<b>C</b>	Call:Ch16 Bcst:Ch2	Guadeloupe			
FM	<b>D</b>	Ch 80	Guadeloupe	Vieux-Fort	15°57'N 61°45'W	
FM	<b>D</b>	Ch 80	Guadeloupe	Piton Sainte Rose	16°20'N 61°45'W	
FM	<b>D</b>	Ch 64	Guadeloupe	Marie-Galante	15°54'N 61°15'W	
FM	<b>D</b>	Ch 79	Guadeloupe	Morne-à-Louis	16°11'N 61°44'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1100-2300 H+30	<b>B,C</b>	AREA 1: Special advisories or bulletins. Dangerous meteorological phenomena.	French
1100-2300 H+33	<b>B,C</b>	AREA 2 & 3: Special advisories or bulletins. Dangerous meteorological phenomena.	French, English
1200-0000 every 2 hours	<b>A</b>	AREA 2 & 3: Special advisories or bulletins. Dangerous meteorological phenomena.	French, English
1200-1530-2300-0100; 1210-1540-2310-0110; 1220-1520-2320-0120; 1230-1600-2330-0130	<b>D</b>	AREA 1: Marine bulletin for coastal areas: Storm warnings, weather summary, forecast for 24 hours, last observations, hours for tides. Answering machine available at : 08 92 68 08 08.	French
1333, 2215	<b>A</b>	AREA 3: Marine bulletin for the high seas: Storm warnings, weather summary, forecast for 24 hours from Trinidad to the Virgin Islands. Answering machine available at: 08 92 68 08 08.	French, English
1530, 2300, 0100	<b>B</b>	AREA 1: Marine bulletin for coastal areas: Storm warnings, weather summary, forecast for 24 hours, last observations, hours for tides. Answering machine available at: 08 92 68 08 08.	

NOTE:  
CROSSAG = Centre Régional Opérationnel de Surveillance et de Sauvetage Antilles Guyane)

**GUAM****Guam (USCG)****Position:** 13°34'00N 144°50'00E**Call Sign:** NRV**METAREA:** XI**Area Covered:** Pacific area

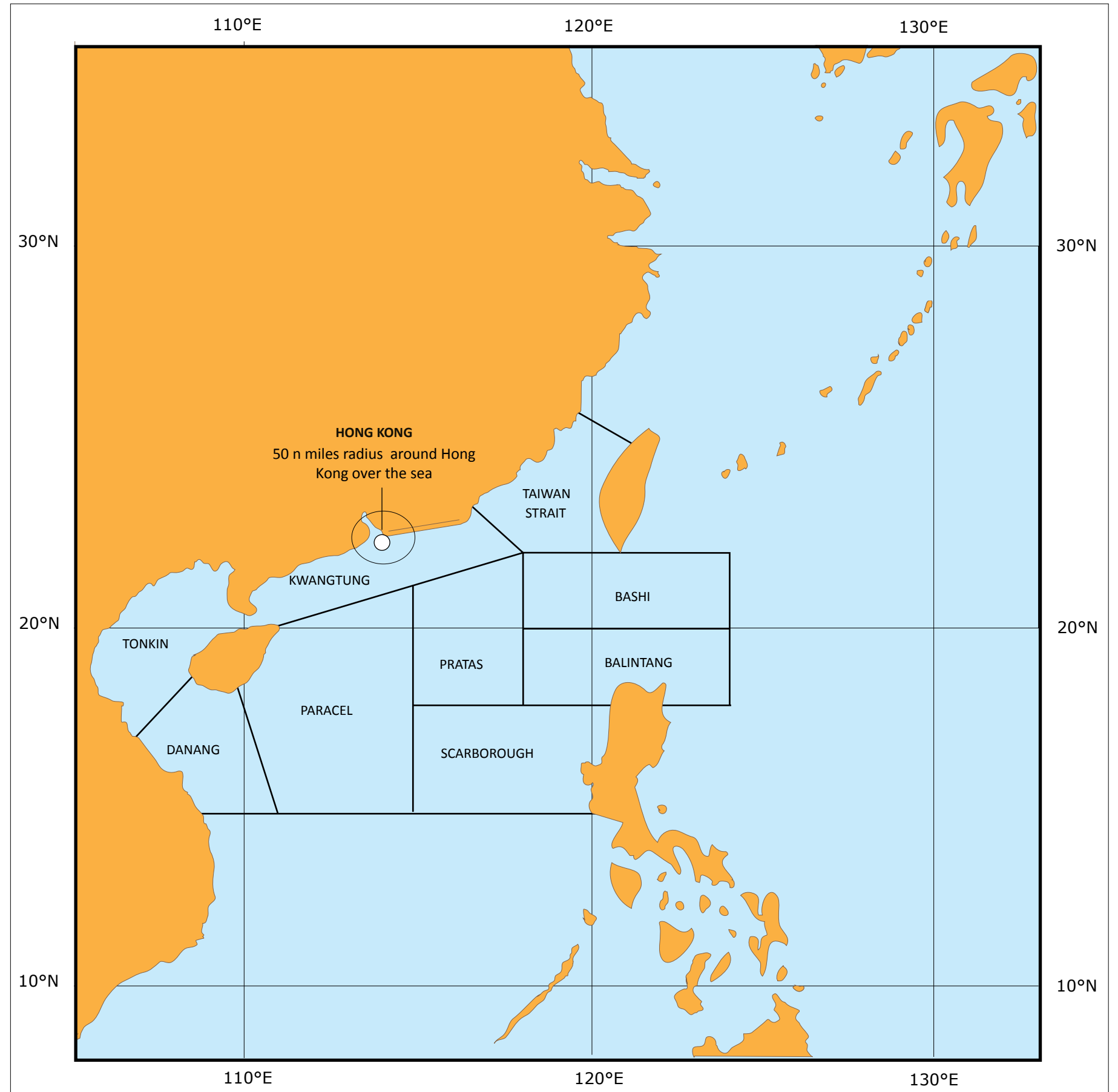
24-hour watch

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	6 501 kHz				
RT (HF)	<b>B</b>	13 089 kHz				
VHF	<b>C</b>	Ch 22A				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0330, 2130	<b>B</b>	Navigational warnings: Maritime safety information including NAVAREA XII warnings.	
0900, 2100	<b>C</b>	Gale warnings for coastal waters of Guam. Gale warnngs, forecast for Guam and N Mariana islands. Navigational warnings: Maritime safety information including NAVAREA XII warnings.	
0930, 1530	<b>A</b>	Gale warnings, synopsis, forecast for the following areas: N Pacific Ocean - N of 30°N and E of a line from the Bering Strait to 50°N 160°E. NE Pacific Ocean - Equator to 30°N and E of 140°W. N Pacific Ocean - Equator to 30°N and 140°W to 160°E. Tsunami Watch / Warning for Central pacific, whilst in force. Navigational warnings: Maritime safety information including NAVAREA XII warnings.	
On receipt	<b>C</b>	Gale warnings for 0°-50°, 110°-180°.	

# HONG KONG, CHINA

Marine Forecast Areas



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**HONG KONG, CHINA****Hong Kong****Position:** 22°24'34"N 114°07'28"E**Call Sign:** VRX**METAREA:** XI**Area Covered:** For warnings of tropical cyclones: 10°N to 30°N, 105°E to 125°E.  
For warnings of winds of force 8 or above: Hong Kong Marine Forecast Areas (see map).

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	8 812 kHz				

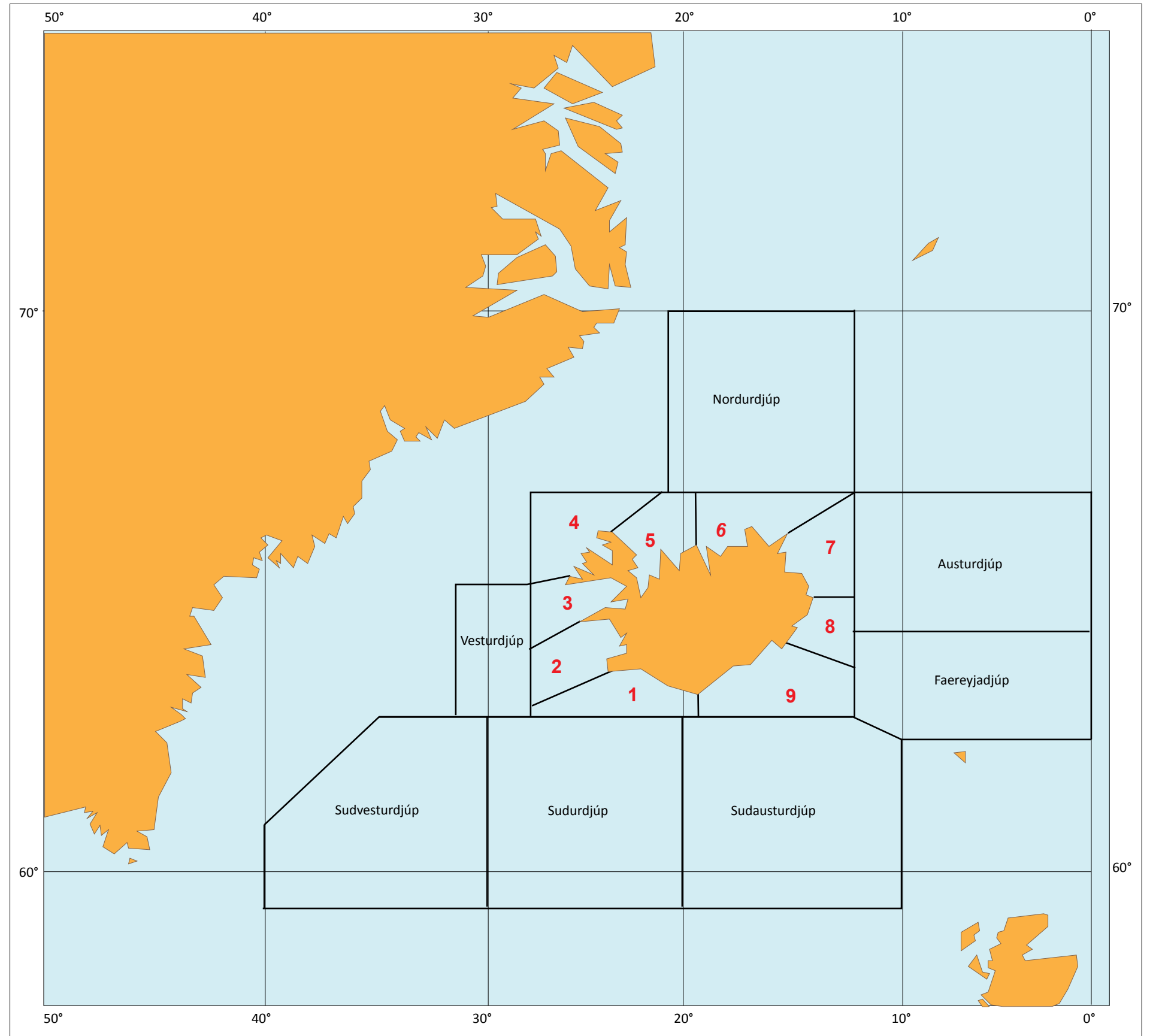
Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0533, 0933, 1333(1), 2233	A	Storm warnings, weather situation, 24 hour forecast of wind, significant weather and sea state for Areas 1-7, outlook for following 24 hours and latest reports from coasta weather stations.	Chinese, English

# ICELAND

Forecast areas

## Key:

- 1 Sudvesturmid (SW-banks)
- 2 Faxafiúamid (W-banks, southern part)
- 3 Breidafjardarmid (W-banks, northern part)
- 4 Vestfjardamid (NW-banks)
- 5 Nordvesturmid (N-banks, western part)
- 6 Nordausturmid (N-banks, eastern part)
- 7 Austurmid (E-banks, northern part)
- 8 Austfjardamid (E-banks, southern part)
- 9 Sudausturmid (SE-banks)



**ICELAND****Hornafjörður****Position:** 64°15'00"N 015°13'00"W**Call Sign:** TFT**METAREA:** I**Area Covered:** Coastal districts and coastal waters of Iceland between 62°30'N and 67°N, from 12°W to 26°W

Watch hours on: 2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 659 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0205, 0505, 0805, 1105, 1405, 1705, 2005, 2305	A	After preliminary announcement on 2182 kHz. Gale and storm warning forecast valid for 24 to 36 hours.	Icelandic repeated in English

**ICELAND****Isafjörður****Position:** 66°05'00"N 023°02'00"W**Call Sign:** TFZ**METAREA:** I**Area Covered:** Coastal districts and coastal waters of Iceland between 62°30'N and 67°N, from 12°W to 26°W

Watch hours on: 2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 724 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0203, 0503, 0803, 1103, 1403, 1703, 2003, 2303	A	After preliminary announcement on 2 182 kHz. Gale and storm warning forecast valid for 24 to 36 hours.	Icelandic repeated in English



**ICELAND****Nes Radio (Neskaupstadur)****Position:** 65°09'00"N 013°42'00"W**Call Sign:** TFM**METAREA:** I**Area Covered:** Coastal districts and coastal waters of Iceland between 62°30'N and 67°N, from 12°W to 26°W

Watch hours on: 2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 761 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0203, 0503, 0803,1103, 1403, 1703, 2003, 2303	A	After preliminary announcement on 2182 kHz. Gale and storm warning forecast valid for 24 to 36 hours.	Icelandic repeated in English

**ICELAND****Reykjavík****Position:** 64°05'00"N 021°51'00"W**Call Sign:** TFA, TFU**METAREA:** I**Area Covered:** Greenland East coast (North Atlantic to Barents Sea)  
Coastal districts and coastal waters of Iceland between 63°N and 67°30'N, from 12°W to 27°W

Watch hours on: 2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	1 876 kHz	TFA			H24
	<b>B</b>	189 kHz		Gufuskálar (TFU)		
	<b>B</b>	737 kHz		Eidar (TFU)		
	<b>B</b>	207 kHz		Reykjavik (TFU)		

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0100, 0430, 0645, 1003, 1245, 1608, 2210	<b>B</b>	Part 1: ICE. Coastal waters of Iceland. Part 2: Weather situation Part 3: Forecasts valid for 24 to 36 hours for the areas (see map). Part 4: Synop	Icelandic
0205, 0505, 0805, 1105, 1405, 1705, 2005, 2305	<b>A</b>	After preliminary announcement on 2182 kHz. Gale and storm warning forecast valid for 24 to 36 hours.	Icelandic repeated in English

**NOTE:**

The control centre for all the Radio Stations in Iceland is Reykjavik Radio. However the call signs for the other five radio stations: Hornarfjardar Radio (TFT), Isafjördur Radio (TFZ), Nes Radio (TFM), Siglufjördur Radio (TFX), and Vestmannaeyjar Radio (TFV) is still valid and in use.

**ICELAND****Siglufjörður****Position:** 66°11'00"N 018°57'00"W**Call Sign:** TFX**METAREA:** I**Area Covered:** Coastal districts and coastal waters of Iceland between 63°N and 67°30'N, from 12°W to 27°W

Watch hours on: 2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 883 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0205, 0505, 0805, 1105, 1405, 1705, 2005, 2305	A	After preliminary announcement on 2182 kHz. Gale and storm warning forecast valid for 24 to 36 hours.	Icelandic repeated in English

**ICELAND****Vestmannaeyjar****Position:** 63°24'24"N 020°16'42"W**Call Sign:** TFV**METAREA:** I**Area Covered:** Coastal districts and coastal waters of Iceland between 63°N and 67°30'N, from 12°W to 27°W

Watch hours on Ch70

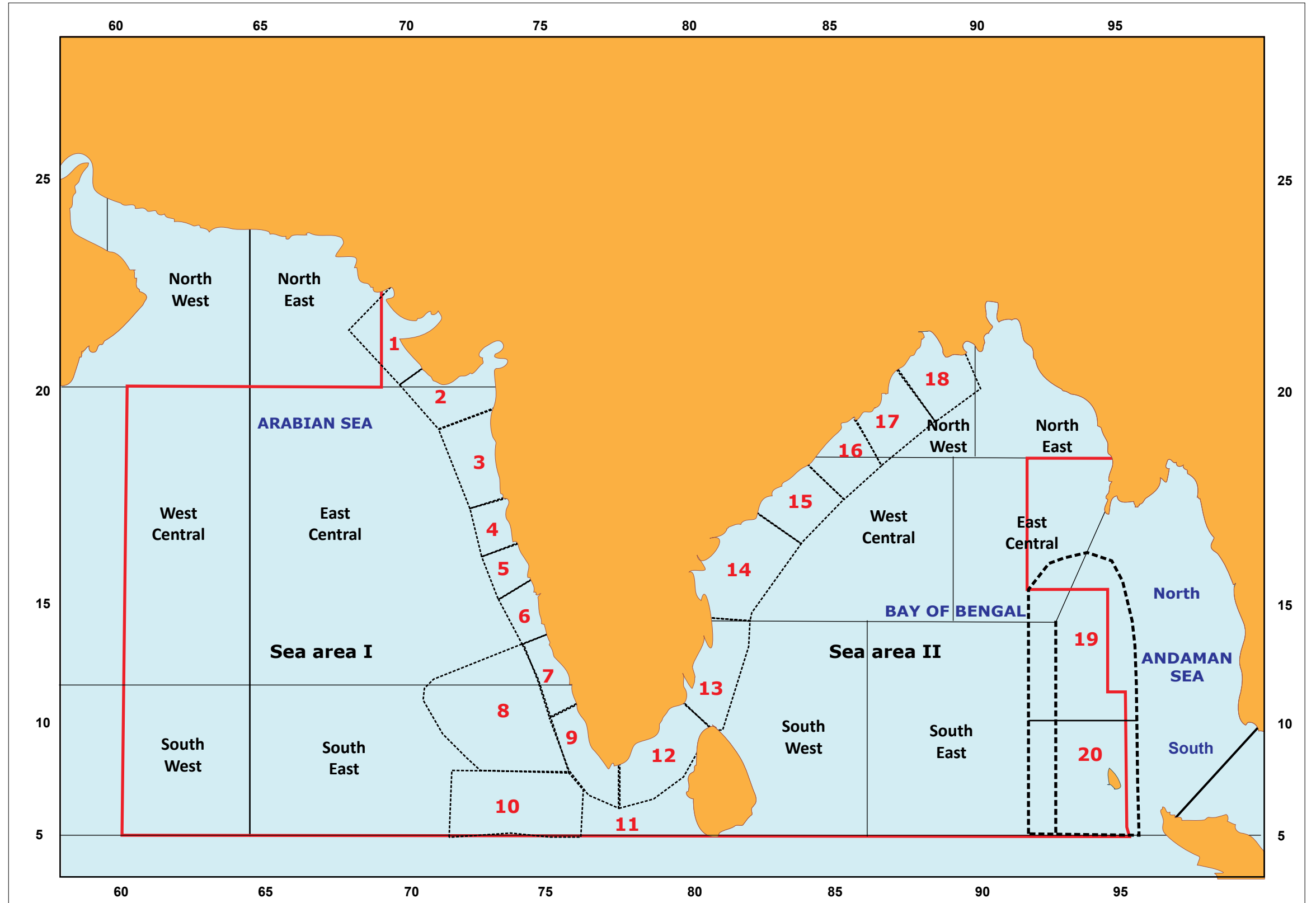
Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	1 713 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0203, 0503, 0803, 1103, 1403, 1703, 2003, 2303	A	After preliminary announcement on 2182 kHz. Gale and storm warning forecast valid for 24 to 36 hours.	Icelandic repeated in English

# INDIA

Forecast Areas

- KEY:**
- 1 North Gujarat
  - 2 South Gujarat
  - 3 North Maharashtra
  - 4 South Maharashtra
  - 5 Goa
  - 6 Karnataka
  - 7 North Kerala
  - 8 Lakshadweep
  - 9 South Kerala
  - 10 Maldives
  - 11 Comorin
  - 12 South Tamilnadu
  - 13 North Tamilnadu
  - 14 South Andhra
  - 15 North Andhra
  - 16 South Orissa
  - 17 North Orissa
  - 18 West Bengal
  - 19 Andaman Is.
  - 20 Nicobar Is.



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**INDIA****Chennai (Madras)****Position:** 13°06'00"N 080°18'00"E**Call Sign:** VWM**METAREA:** VIII(N)**Area Covered:** Indian Ocean/Arab.Gulf/Red Sea

Sea areas within the Asian coast and the line 24°N 68°E to 20°N 68°E to 20°N 60°E to 5°N 60°E to 5°N 95°E to 10°N 95°E to 10°N 94°E to 13°30'N 94°E to 13°30'N 92°E to 18°N 92°E to 18°N 94°30'E.

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
WT (MF)	A	515 kHz			13°05'N 80°17'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt 0548, 1548 On request	A	Navigational warning for the ara within 250 n miles of Chennai (Madras) to 15°N including Palk Strait.	English

**INDIA****Kochi (Cochin)****Position:** 09°58'00"N 076°16'00"E**Call Sign:** VWN**METAREA:** VIII(N)**Area Covered:** Sea areas within the Asian coast and the line 24°N 68°E to 20°N 68°E to 20°N 60°E to 5°N 60°E to 5°N 95°E to 10°N 95°E to 10°N 94°E to 13°30'N 94°E to 13°30'N 92°E to 18°N 92°E to 18°N 94°30'E.

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
WT (MF)	A	460 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
H+00(1) 0420(2), 0820, 1220(2), 1620, 2020(2), 2320(3)	A	Situation, forecasts of wind, weather, visibility and sea state for coastal Area 7 and 9.	English
On receipt 0648, 1548 On request	A	Navigational warnings: For the area within 300 n miles of Kochi between 5°N and 12°N including the Lakshadweep Islands.	English

(1) Transmission in the event of an unexpected development of a tropical storm.

(2) Transmission in the event of a cyclonic storm having developed.

(3) Transmission in the event of disturbed weather.

**INDIA****Mumbai (Bombay)****Position:** 18°55'00"N 072°50'00"E**Call Sign:** VWB**METAREA:** VIII(N)**Area Covered:** Indian Ocean/Arab.Gulf/Red Sea

Sea areas within the Asian coast and the line 24°N 68°E to 20°N 68°E to 20°N 60°E to 5°N 60°E to 5°N 95°E to 10°N 95°E to 10°N 94°E to 13°30'N 94°E to 13°30'N 92°E to 18°N 92°E to 18°N 94°30'E.

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
WT (MF)	<b>A</b>	500 kHz				
WT (MF)	<b>B</b>	521 kHz				
WT (HF)	<b>C</b>	8 630 kHz				
WT (HF)	<b>D</b>	12 710 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0420(2), 0820, 1220(2), 1620, 2020(2), 2320(3)	<b>B-D</b>	Situation, forecasts of wind, weather, visibility and sea state for coastal Areas 2, 3.	English
0448(2), 0848, 1248(2), 1648, 2048(2), 2348(3)	<b>A, C, D</b>	Storm warnings: for Arabian Sea (Sea area I).	English
0618, 1518	<b>B-D</b>	Met codes for Sea areas I.	FM 12 SYNOP FM 13 SHIP
0848, 1648	<b>B-D</b>	Synopsis and forecast. FM 46 IAC FLEET for Arabian Sea (Sea area I).	English
H+00(1)	<b>A</b>	Storm warnings.	
On receipt 0648, 1548 On request	<b>B-D</b>	Navigational warnings: For the area within 200 n miles of Bombay between 21°N and 17°N including Gulf of Khambat (Cambay).	English

(1) Transmission in the event of an unexpected development of a tropical storm.

(2) Transmission in the event of disturbed weather.

(3) Transmission in the event of a cyclonic storm having developed.



**INDIA****Tuticorin****Position:** 08°45'00"N 078°12'00"E**Call Sign:** VWT**METAREA:** VIII(N)**Area Covered:** Sea areas within the Asian coast and the line 24°N 68°E to 20°N 68°E to 20°N 60°E to 5°N 60°E to 5°N 95°E to 10°N 95°E to 10°N 94°E to 13°30'N 94°E to 13°30'N 92°E to 18°N 92°E to 18°N 94°30'E.

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
WT (MF)	A	487 kHz			08°47'N 78°10'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt 0648, 1548 On request	A	For the areas within 200 n miles of Tuticorin east of 77°E up to 10°N.	English

**INDIA****Vishakhapatnam (COMCEN)****Position:** 17°41'00"N 083°17'00"E**Call Sign:** VTP**METAREA:** VIII(N)**Area Covered:** Sea areas within the Asian coast and the line 24°N 68°E to 20°N 68°E to 20°N 60°E to 5°N 60°E to 5°N 95°E to 10°N 95°E to 10°N 94°E to 13°30'N 94°E to 13°30'N 92°E to 18°N 92°E to 18°N 94°30'E.

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
WT (MF)	A	474 kHz			17°42'N 83°17'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt 0548, 1548 On request	A	Navigational warnings: For the areas within 200 n miles of Vishakhapatnam between 14°30'N and 19°N.	English

Note: This service is only provided when COMCEN Mumbai (Bombay) (VTG) is off the air.

**INDONESIA**

**Jakarta**

**Position:** 06°07'28"S 106°51'16"E

**Call Sign:** PKX

**METAREA:** XI

**Area Covered:** Jawa (West Pacific Sea of Japan)  
Area circumscribed by a line through: 0°S-119°E, 0°S-95°E, 10°S-95°E, 10°S-141°E, 5°N-141°E, 5°N-119°E

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
WT (HF)	<b>A</b>	8 542 kHz		005250000		
WT (HF)	<b>B</b>	12 970.5		005250000		
RT (MF)	<b>C</b>	2 690		005250000		

**IRAN, ISLAMIC REPUBLIC OF****Bandar Abbas (MRCC)****Position:** 27°06'06"N 056°03'48"E**Call Sign:** EQI**METAREA:** IX**Area Covered:**

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 18			27°13'N 57°17'E	

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0530, 1230	A	For the Strait of Hormuz and the Persian Gulf. Navigational warnings: For the Strait of Hormuz and the Persian Gulf.	English, Farsi

**IRAN, ISLAMIC REPUBLIC OF****Bandar Imam Khomeyni (MRCC)****Position:** 30°25'00"N 049°03'00"E**Call Sign:** EQN**METAREA:** IX**Area Covered:**

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 18			30°30'N 49°09'E	

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0530, 1230	A	For the Northwest of Persian Gulf. Navigational warnings: For the Northwest of Persian Gulf.	English, Farsi

**IRAN, ISLAMIC REPUBLIC OF**

**Bushehr (MRCC)**

**Position:** 28°59'00"N 050°49'00"E

**Call Sign:** EQM

**METAREA:** IX

**Area Covered:**

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 18			28°58'N 50°50'E	

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0530, 1230	A	For the Northwest of Persian Gulf. Navigational warnings: For the Northwest of Persian Gulf.	English, Farsi

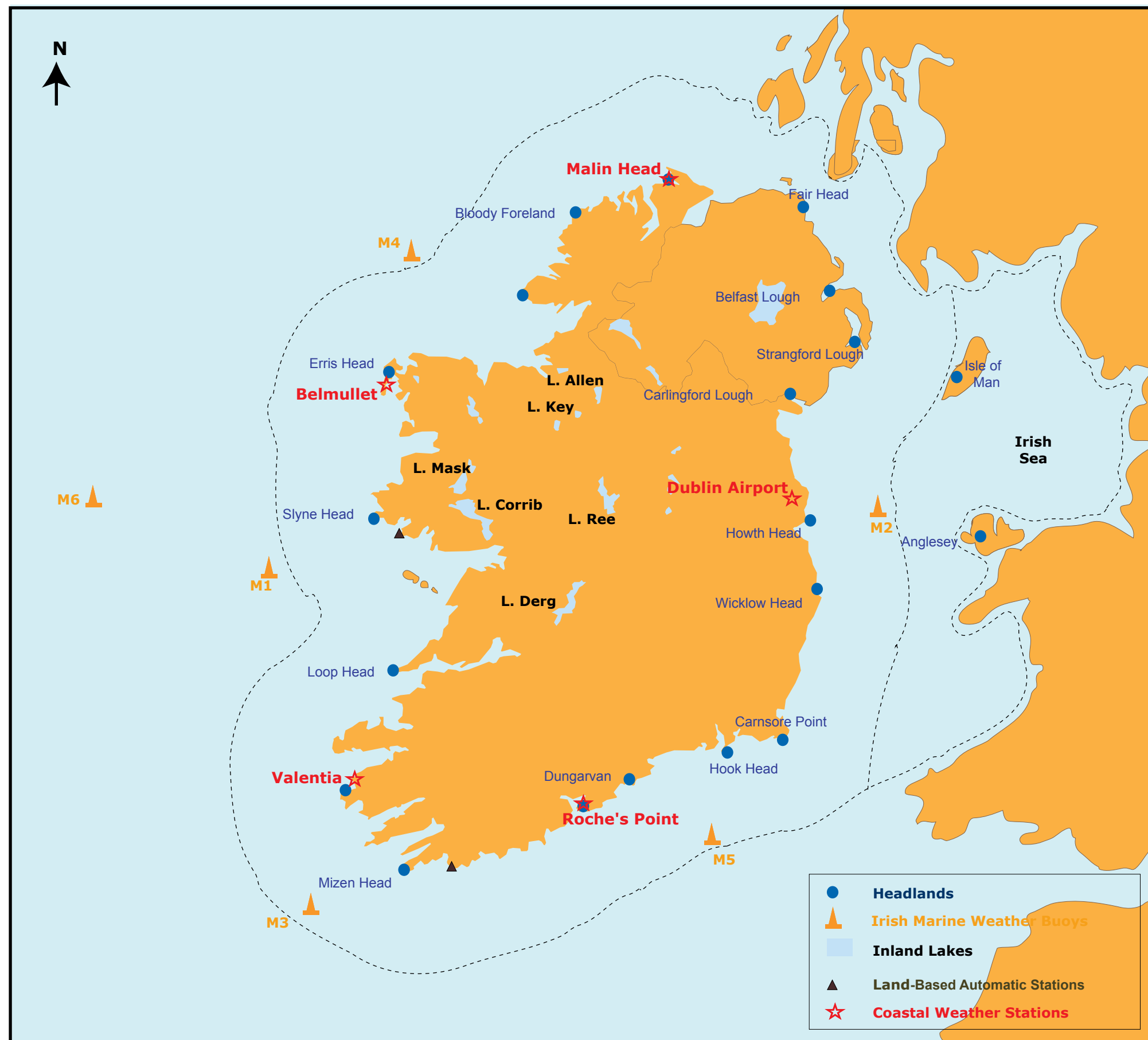
**IRAN, ISLAMIC REPUBLIC OF****Chahbahar (MRCC)****Position:** 25°18'00"N 060°35'00"E**Call Sign:** EQJ**METAREA:** IX**Area Covered:**

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 18			25°14'N 60°37'E	

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0530, 1230	A	For the Gulf of Oman and the northern part of the Indian ocean. Navigational warnings: For the Gulf of Oman and the northern part of the Indian ocean.	English, Farsi

# IRELAND

## Marine Weather Services Sea Area Map



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**IRELAND****Dublin (MRCC)****Position:** 52°23'00"N 06°04'00"W**Call Sign:** --**METAREA:** I**Area Covered:** Irish coastal waters

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	<b>A</b>	Ch 04		Carlingford	54°04'N 6°19'W	
VHF	<b>B</b>	Ch 83		Dublin	53°23'N 6°04'W	
VHF	<b>C</b>	Ch 83		Mine Head	52°00'N 7°35'W	
VHF	<b>D</b>	Ch 23		Rosslare	52°15'N 6°20'W	
VHF	<b>E</b>	Ch 02		Wicklow Head	52°58'N 6°00'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0033, 0433, 0833, 1233, 1633, 2033	<b>A-E</b>	Navigational warnings: For the E, SE and S coasta of Ireland and approaches	
0103, 0403, 0703, 1003, 1303, 1603, 1903, 2203 after announcement on Ch 16.	<b>A-E</b>	Gale warnings, synopsis and 24 hour forecast for Irish coastal waters up to 30 n miles offshore and Area Irish Sea.	
On receipt and repeated at the next one of the following times: 0033, 0633, 1233, 1833 after announcement on Ch 16	<b>A-E</b>	Gale warnings for Irish coastal waters up to 30 n miles offshore and Area Irish Sea. Small craft warning issued (Apr-Sept) for Irish coastal waters if winds of Beaufort Force 6 are expected up to 10 n miles offshore.	

**IRELAND****Malin Head (MRSC)****Position:** 55°22'00"N 007°16'00"W**Call Sign:** EJM**METAREA:** I**Area Covered:** Irish coastal waters

Watch hours on: 2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	1 677 kHz		Malinhead	55°22'N 07°21'W	
VHF	<b>B</b>	Ch 23		Malinhead	55°22'N 07°21'W	
VHF	<b>B</b>	Ch 24		Glen Head	54°44'N 08°43'W	
VHF	<b>B</b>	Ch 02		Donegal Bay	54°22'N 08°31'W	
VHF	<b>B</b>	Ch 26		Clifden	53°30'N 09°56'W	
VHF	<b>B</b>	Ch 83		Belmullet	54°16'N 10°03'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0103, 0403, 0703, 1003, 1303, 1603, 1903, 2203 after announcement on Ch 16	<b>A</b>	Gale warnings, synopsis and 24 hour forecast for Irish coastal waters up to 30 n miles offshore and Area Irish Sea.	
On receipt and repeated at the next one of the following times: 0033, 0633, 1233, 1833 after announcement on Ch 16.	<b>B</b>	Gale warnings, synopsis and 24 hour forecast for Irish coastal waters up to 30 n miles offshore and Areas Irish Sea, Shannon, Rockall, Malin and Bailey. Small Craft Warning issued (Apr-Sept) for Irish coastal waters if winds of Beaufor Force 6 are expected up to 10 n miles offshore.	
On receipt(1) 0033, 0433, 0833, 1233, 1633, 2033	<b>A, B</b>	Navigational warnings: For North Channel, SW coast of Scotland, N, NW and W coasts of Ireland and approaches.	

**IRELAND****Valentia****Position:** 51°52'00"N 010°21'00"W**Call Sign:** EJK**METAREA:** I**Area Covered:** Irish coastal waters

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

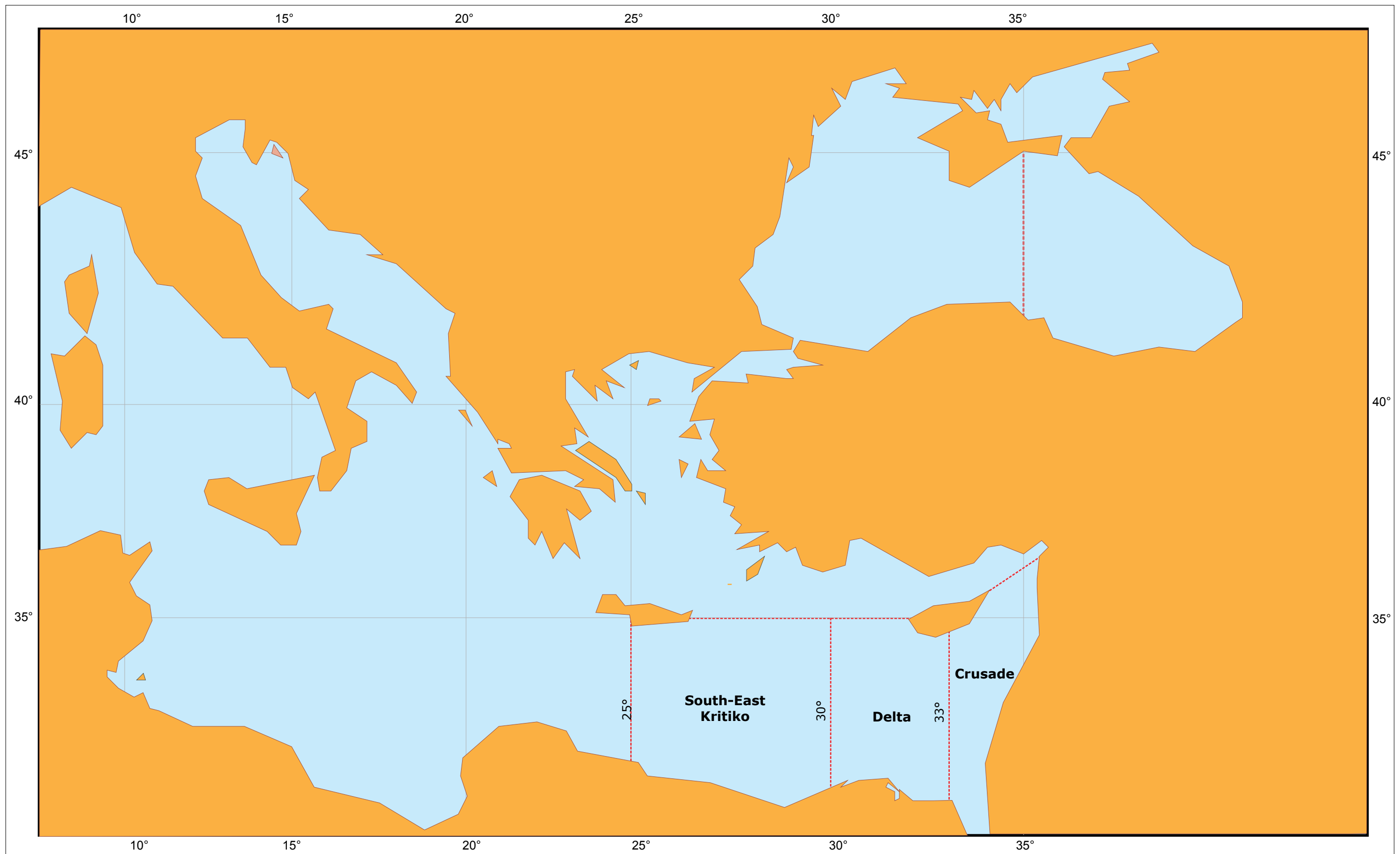
Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	1 752 kHz				
VHF	<b>B</b>	Ch 24		Valentia	51°56'N 10°21'W	
VHF	<b>B</b>	Ch 28		Shannon	52°31'N 09°36'W	
VHF	<b>B</b>	Ch 04		Mizen	51°34'N 09°33'W	
VHF	<b>B</b>	Ch 04		Galway	53°18'N 09°07'W	
VHF	<b>B</b>	Ch 26		Cork	51°51'N 08°29'W	
VHF	<b>B</b>	Ch 23		Bantry	51°38'N 10°00'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0103, 0403, 0703, 1003, 1303, 1603, 1903, 2203 after announcement on Ch 16	<b>B</b>	Gale warnings, synopsis and 24 hour forecast for Irish coastal waters up to 30 n miles offshore and Areas Irish Sa, Sole, Fastnet and Shannon.	
0233, 0633, 1033, 1433, 1833, 2233	<b>A, B</b>	Navigational warnings: For S, SW and W coasts of Ireland and approaches.	
0833, 2033	<b>A</b>	Gale warnings, synopsis, 24 hour forecast for Areas Irish Shannon and Fastnet.	
On receipt and repeated at the next one of the following times: 0033, 0633, 1233, 1833, after announcement on Ch 16	<b>B</b>	Gale warnings for Irish coastal waters up to 30 n miles offshore and Area Irish Sea. Small Craft Warning issued (Apr-Sept) for Irish coastal waters if winds of Beaufort Force 6 are expected up to 10 n miles offshore.	
On receipt 0303, 0903, 1503, 2103	<b>A</b>	Gale warnings for Areas Shannon and Fastnet.	

# ISRAEL

Weather Forecast Areas

28 October 2015



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**ISRAEL****Hefa (Haifa)****Position:** 29°34'01"N 034°57'00"E**Call Sign:** 4XO**METAREA:** III**Area Covered:** Delta, Crusade and South East Kritiko

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (MF)	<b>A</b>	2 649 kHz				
VHF	<b>B</b>	Ch 26				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
On receipt	<b>A, B</b>	Navigational warnings: Urgent navigational warnings	English
On request	<b>A, B</b>	Gale warnings, synopsis, 12 hour forecast and outlook for a further 12 hours for Areas Delta, Crusade and Taurus.	English

# ITALY

Weather Forecast Areas

3 June 2015

**KEY:**

Limit of METAREA III  
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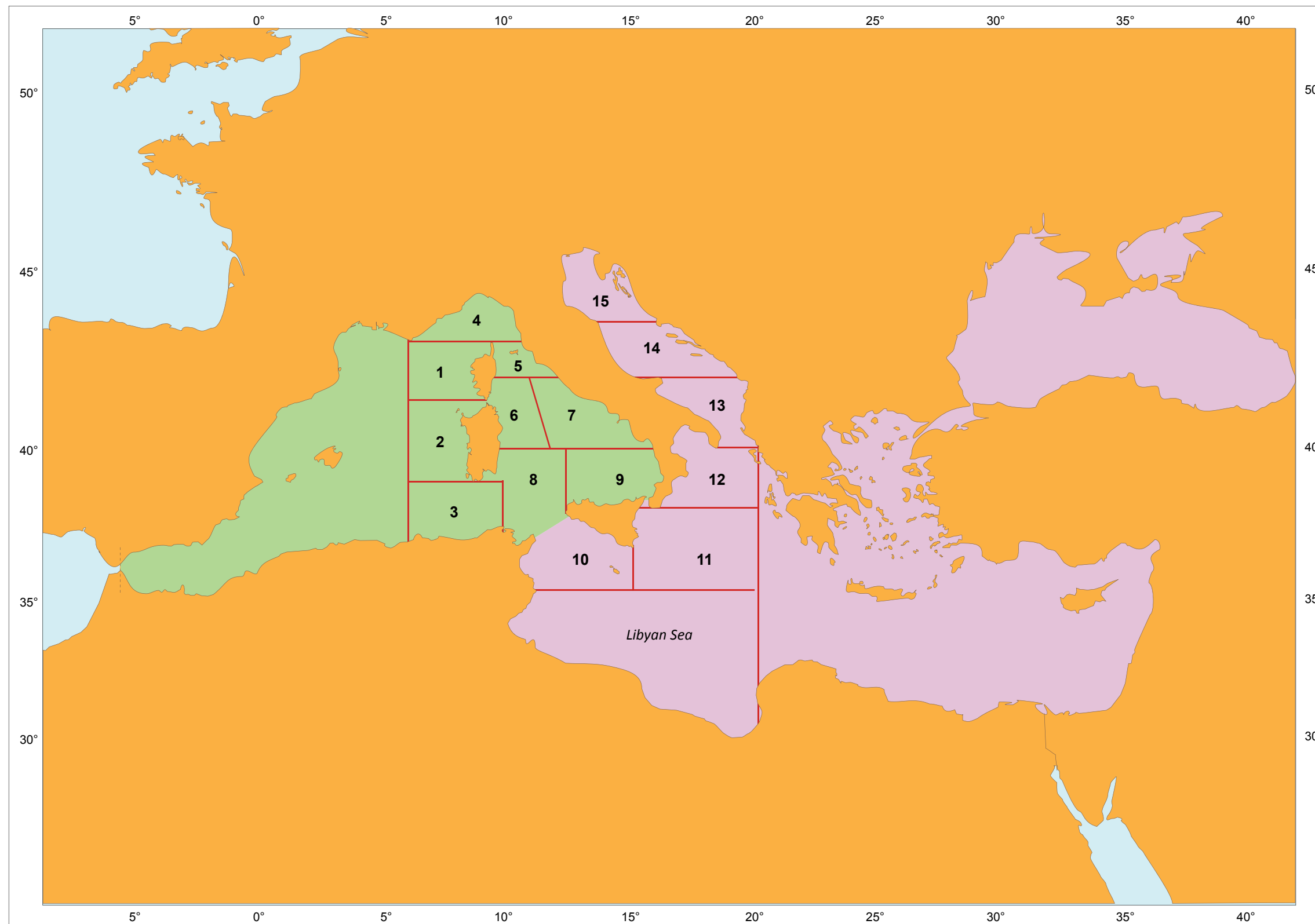
Limit of subarea  
\_\_\_\_\_

Eastern part of Mediterranean  
[Pink box]

Western part of Mediterranean  
[Green box]

**Namelist:**

- 1 Corsica Sea
- 2 Sardegna Sea
- 3 Sardegna Canal
- 4 Ligurian Sea
- 5 Northern Tyrrhenian Sea
- 6 Central Sector Tyrrhenian Sea W
- 7 Sector Tyrrhenian Sea E
- 8 Southern Sector Tyrrhenian Sea W
- 9 Southern Sector Tyrrhenian Sea E
- 10 Sicily Narrow
- 11 Southern Ionio Sea
- 12 Northern Ionio Sea
- 13 Southern Adriatic Sea
- 14 Central Adriatic Sea
- 15 Northern Adriatic Sea



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**ITALY****Ancona****Position:** 43°36'00"N 013°28'00"E**Call Sign:** IPA**METAREA:** III**Area Covered:** Northern and Central Adriatic (see map)

Watch hours on: 2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RTF (MF)	A	2 656 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0135 0735 1335 1935	A	Near gale warnings, synopsis, 12 or 18 hours forecast and outlook for a further 12 hours, for areas 14, 15 (central and southern Adriatic). Clear decoding of FM 12 SYNOP.	Italian, English
On receipt 0403 0803 1203 1603 2003	A	Near gale warnings for areas 14 , 15.	Italian, English

**ITALY****Augusta Campolato Alto****Position:** 37°16'00"N 015°12'00"E**Call Sign:** IQA**METAREA:** III**Area Covered:** Sicily Strait, Ionian Sea, Southern Adriatic

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RTF (MF)	A	2 628 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0135 0735 1335 1935	A	Near gale warnings, synopsis, 12 or 18 hours forecast and outlook for a further 12 hours, for areas 10, 11 (northern and southern Ionio). Clear decoding of FM 12 SYNOP.	Italian, English
On receipt 0333 0833 1233 1633 2033	A	Near gale warnings for areas 10, 11	Italian, English



**ITALY****Bari (IPB)****Position:** 41°07'00"N 016°52'00"E**Call Sign:** IPB**METAREA:** III**Area Covered:** Southern Adriatic Sea, Northern and Southern Ionian Sea, Channel of Sicily (see map) (1)

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RTF (MF)	A	2 579 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0135 0735 1335 1935	A	Near gale warnings, synopsis, 12 or 18 hours forecast and outlook for a further 12 hours, for areas 12, 13 (southern Adriatic and northern Ionio). Clear decoding of FM 12 SYNOP.	Italian, English
On receipt 0333 0833 1233 1633 2033	A	Near gale warnings for areas 12, 13.	Italian, English

**ITALY****Cagliari****Position:** 39°13'00"N 009°14'00"E**Call Sign:** IDC**METAREA:** III**Area Covered:** Sardinian Channel, Sardinian Sea, Corsican Sea

Watch hours on: 2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RTF (MF)	A	2 680 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0135 0735 1335 1935	A	Near gale warnings, synopsis, 12 or 18 hours forecast and outlook for a further 12 hours, for areas 2, 3, 6, 7, 8, 9 (Sardinia sea, Sicily channel, central and southern Tyrrhenian ). Clear decoding of FM 12 SYNOP.	Italian, English
On receipt 0403 0803 1203 1603 2003	A	Near gale warnings for areas 2, 3, 6, 7, 8, 9.	Italian, English

**ITALY****Civitavecchia****Position:** 42°05'24"N 011°47'31"E**Call Sign:** IPD**METAREA:** III**Area Covered:** Northern and Central Tyrrhenian Sea (see map)

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RTF (MF)	A	1 888 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0135 0735 1335 1935	A	Near gale warnings, synopsis, 12 or 18 hours forecast and outlook for a further 12 hours, for areas 5, 6, 7, 8, 9 (northern, central, southern Tyrrhenian ). Clear decoding of FM 12 SYNOP.	Italian, English
On receipt 0403 0803 1203 1603 2003	A	Near gale warnings for areas 5, 6, 7, 8, 9.	Italian, English

**ITALY****Crotone****Position:** 39°04'50"N 017°07'37"E**Call Sign:** IPC**METAREA:** III**Area Covered:** Northern and Southern Ionian Sea (see map)

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RTF (MF)	A	2 663 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0135 0735 1335 1935	A	Near gale warnings, synopsis, 12 or 18 hours forecast and outlook for a further 12 hours, for areas 11, 12 (northern and southern Ionio). Clear decoding of FM 12 SYNOP.	Italian, English
On receipt 0333 0833 1233 1633 2033	A	Near gale warnings for areas 11, 12.	Italian, English

**ITALY****Genova****Position:** 44°25'00"N 008°56'00"E**Call Sign:** ICB**METAREA:** III**Area Covered:** Ligurian Sea, Northern Tyrrhenian Sea, Sea of Corsica (see map)

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RTF (MF)	A	2 642 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0135 0735 1335 1935	A	Near gale warnings, synopsis, 12 or 18 hours forecast and outlook for a further 12 hours, for areas 1,4 ,5 (Corsica sea, Ligurian sea, northern Tyrrhenian). Clear decoding of FM 12 SYNOP.	Italian, English
On receipt 0403 0803 1203 1603 2003	A	Near gale warnings for areas 1,4, 5.	Italian, English

**ITALY****Lampedusa****Position:** 35°31'00"N 012°33'00"E**Call Sign:** IQN**METAREA:** III**Area Covered:** Channel of Sicily (see map)

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RTF (MF)	A	1 876 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0135 0735 1335 1935	A	Near gale warnings, synopsis, 12 or 18 hours forecast and outlook for a further 12 hours, for area 10 (Sicily strait). Clear decoding of FM 12 SYNOP.	Italian, English
On receipt 0333 0833 1233 1633 2033	A	Near gale warnings for area 10.	Italian, English

**ITALY****Livorno****Position:** 43°33'11"N 010°19'00"E**Call Sign:** IPL**METAREA:** III**Area Covered:** Ligurian Sea, Northern and Central Tyrrhenian Sea (see map)

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RTF (MF)	A	1 925 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0135 0735 1335 1935	A	Near gale warnings, synopsis, 12 or 18 hours forecast and outlook for a further 12 hours, for areas 4, 5, 6, 7 (Ligurian sea, northern and central Tyrrhenian). Clear decoding of FM 12 SYNOP.	Italian, English
On receipt 0403 0803 1203 1603 2003	A	Near gale warnings for areas 4, 5, 6, 7.	Italian, English

**ITALY****Mazara del Vallo****Position:** 37°40'12"N 012°36'47"E**Call Sign:** IQQ**METAREA:** III**Area Covered:** Channel of Sicily (see map)

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RTF (MF)	A	2 600 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0135 0735 1335 1935	A	Near gale warnings, synopsis, 12 or 18 hours forecast and outlook for a further 12 hours, for area 10 (Sicily strait). Clear decoding of FM 12 SYNOP.	Italian, English
On receipt 0333 0833 1233 1633 2033	A	Near gale warnings for area 10.	Italian, English



**ITALY****Messina****Position:** 38°13'00"N 015°33'00"E**Call Sign:** IDF**METAREA:** III**Area Covered:** Southern Tyrrhenian Sea, Northern and Southern Ionian sea (see map)

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RTF (MF)	A	2 789 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0135 0735 1335 1935	A	Near gale warnings, synopsis, 12 or 18 hours forecast and outlook for a further 12 hours, for areas 8, 9, 11, 12 (southern Tyrrhenian, Sicily strait, southern Ionio). Clear decoding of FM 12 SYNOP.	Italian, English
On receipt 0333 0833 1233 1633 2033	A	Near gale warnings for areas 8, 9, 11 ,12.	Italian, English

**ITALY****Napoli****Position:** 40°48'00"N 014°11'00"E**Call Sign:** IQH**METAREA:** III**Area Covered:** Central and Southern Tyrrhenian Sea (see map)

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RTF (MF)	A	2 632 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0135 0735 1335 1935	A	Near gale warnings, synopsis, 12 or 18 hours forecast and outlook for a further 12 hours, for areas 6, 7, 8, 9 (central and southern Tyrrhenian). Clear decoding of FM 12 SYNOP.	Italian, English
On receipt 0333 0833 1233 1633 2033	A	Near gale warnings for areas 6, 7, 8, 9.	Italian, English

**ITALY****Palermo****Position:** 38°11'00"N 013°06'00"E**Call Sign:** IPP**METAREA:** III**Area Covered:** Southern Tyrrhenian Sea, Channel of Sicily (see map)

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RTF (MF)	A	1 852 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0135 0735 1335 1935	A	Near gale warnings, synopsis, 12 or 18 hours forecast and outlook for a further 12 hours, for areas 8, 9, 10 (southern Tyrrhenian, Sicily strait). Clear decoding of FM 12 SYNOP.	Italian, English
On receipt 0333 0833 1233 1633 2033	A	Near gale warnings for areas 8, 9, 10.	Italian, English

**ITALY****Porto Torres****Position:** 40°50'00"N 008°24'00"E**Call Sign:** IZN**METAREA:** III**Area Covered:** Sea of Corsica, Sea of Sardinia, Central Tyrrhenian Sea (see map)

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RTF (MF)	A	2 719 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0135 0735 1335 1935	A	Near gale warnings, synopsis, 12 or 18 hours forecast and outlook for a further 12 hours, for areas 1, 2, 6, 7 (Sardinia sea, Corsica Sea, central Tyrrhenian). Clear decoding of FM 12 SYNOP.	Italian, English
On receipt 0403 0803 1203 1603 2003	A	Near gale warnings for areas 1, 2 ,6 , 7.	Italian, English

**ITALY****Roma (IAR)****Position:** 41°47'00"N 012°27'00"E**Call Sign:** IAR**METAREA:** III**Area Covered:** Europe, North Africa and Near East

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RTF (MF)	<b>A</b>	05	Adriatic Sea	Abbate Argento	40°52'N 17°17'E	
RTF (MF)	<b>A</b>	27	Adriatic Sea	Bari	41°05'N 16°59'E	
RTF (MF)	<b>A</b>	02	Adriatic Sea	Montesardo	39°53'N 18°21'E	
RTF (MF)	<b>B</b>	81	Adriatic Sea	Casa d'orso	41°49'N 15°59'E	
RTF (MF)	<b>B</b>	01	Adriatic Sea	Monte Calvario	42°05'N 14°40'E	
RTF (MF)	<b>C</b>	65	Adriatic Sea	Silvi	42°34'N 14°05'E	
RTF (MF)	<b>D</b>	83	Adriatic Sea	Coconello	45°40'N 13°48'E	
RTF (MF)	<b>D</b>	25	Adriatic Sea	Forte Garibaldi	43°36'N 13°32'E	
RTF (MF)	<b>D</b>	26	Adriatic Sea	Monte Cero	45°15'N 11°40'E	
RTF (MF)	<b>D</b>	02	Adriatic Sea	Monte Conero	43°33'N 13°36'E	
RTF (MF)	<b>D</b>	27	Adriatic Sea	Ravenna	44°25'N 12°12'E	
RTF (MF)	<b>D</b>	01	Adriatic Sea	Piancavallo	46°05'N 12°32'E	
RTF (MF)	<b>D</b>	20	Adriatic Sea	Monte Secco	42°58'N 13°53'E	
RTF (MF)	<b>E</b>	82	Sardinia	Punta Campu Spina	39°22'N 08°34'E	
RTF (MF)	<b>E</b>	04	Sardinia	Monte Serpeddi	39°22'N 09°18'E	
RTF (MF)	<b>E</b>	19	Sardinia	Badde Urbana	40°09'N 08°37'E	
RTF (MF)	<b>E</b>	62	Sardinia	Margine Rosso	39°14'N 09°14'E	
RTF (MF)	<b>F</b>	85	Sardinia	Monte Limbara	40°51'N 09°10'E	
RTF (MF)	<b>F</b>	28	Sardinia	Monte Moro	41°06'N 09°31'E	
RTF (MF)	<b>F</b>	83	Sardinia	Monte Tului	40°16'N 09°35'E	
RTF (MF)	<b>F</b>	26	Sardinia	Osilio	40°44'N 08°40'E	
RTF (MF)	<b>F</b>	26	Sardinia	Porto Cervo	41°08'N 09°32'E	
RTF (MF)	<b>G</b>	85	Sicily	Belvedere di Siracusa	37°05'N 15°13'E	
RTF (MF)	<b>G</b>	86	Sicily	Campo Lato Alto	37°16'N 15°12'E	
RTF (MF)	<b>G</b>	19	Sicily	Monte Iauro	37°07'N 14°50'E	
RTF (MF)	<b>H</b>	84	Sicily	Ustica	38°42'N 13°10'E	
RTF (MF)	<b>H</b>	61	Sicily	Cefalu	38°01'N 13°58'E	
RTF (MF)	<b>H</b>	81	Sicily	Erice	38°02'N 12°35'E	
RTF (MF)	<b>H</b>	22	Sicily Channel	Pantelleria	36°45'N 12°00'E	
RTF (MF)	<b>H</b>	27	Sicily	Monte Pellegrino	38°10'N 13°22'E	
RTF (MF)	<b>I</b>	19	Tyrrhenian Sea	Monte Mancuso	39°00'N 16°13'E	
RTF (MF)	<b>I</b>	85	Sicily	Forte Spuria	38°16'N 15°37'E	
RTF (MF)	<b>J</b>	26	Sicily	Gela	37°04'N 14°15'E	
RTF (MF)	<b>J</b>	25	Sicily	Mazzara de Vallo	37°41'N 12°37'E	

**ITALY**

RTF (MF)	<b>J</b>	82	Sicily	Monte San Calogero	37°31'N 13°07'E
RTF (MF)	<b>J</b>	21	Pelagie Islands	Grecale	35°31'N 12°38'E
RTF (MF)	<b>J</b>	25	Pelagie Islands	Lampedusa Ponente	35°30'N 12°36'E
RTF (MF)	<b>K</b>	84	Ionio Sea	Punta Stilo	38°27'N 16°36'E
RTF (MF)	<b>K</b>	79	Ionio Sea	Monte Titolo	40°00'N 16°36'E
RTF (MF)	<b>K</b>	62	Ionio Sea	Capo delle Armi	37°57'N 15°41'E
RTF (MF)	<b>K</b>	20	Ionio Sea	Capo Colonna	39°02'N 17°10'E
RTF (MF)	<b>K</b>	26	Ionio Sea	Monteparano	40°26'N 17°26'E
RTF (MF)	<b>L</b>	27	Tyrrhenian Sea	Capri	40°33'N 14°15'E
RTF (MF)	<b>L</b>	01	Tyrrhenian Sea	Posillipo	40°51'N 14°10'E
RTF (MF)	<b>L</b>	25	Tyrrhenian Sea	Serra del Tuono	39°55'N 15°50'E
RTF (MF)	<b>L</b>	62	Tyrrhenian Sea	Varco del Salice	40°17'N 15°50'E
RTF (MF)	<b>M</b>	25	Tyrrhenian Sea	Castellaccio	44°26'N 08°56'E
RTF (MF)	<b>M</b>	07	Tyrrhenian Sea	Monte Bignone	43°52'N 07°44'E
RTF (MF)	<b>M</b>	27	Tyrrhenian Sea	Zoagli	44°19'N 09°19'E
RTF (MF)	<b>N</b>	21	Tyrrhenian Sea	Formia	41°15'N 13°36'E
RTF (MF)	<b>N</b>	01	Tyrrhenian Sea	Monte Argentario	42°24'N 11°10'E
RTF (MF)	<b>N</b>	25	Tyrrhenian Sea	Monte cavo	41°45'N 12°43'E
RTF (MF)	<b>N</b>	64	Tyrrhenian Sea	Monte Paradiso	42°05'N 11°51'E
RTF (MF)	<b>O</b>	61	Tyrrhenian Sea	Monte Nero	43°29'N 10°21'E
RTF (MF)	<b>O</b>	26	Tyrrhenian Sea	Gorgona	43°26'N 09°54'E

**ITALY**

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0135 0735 1335 1935	--	<p>Near gale Warnings, synoptic situation, 12 or 18 hours forecast and outlook for a further 12 hours.            A: for areas 12 and 13 (Northern Ionio &amp; Southern Adriatic);            B,C: for areas 12 and 14 (Central and Southern Adriatic);            D: for areas 14, 15 (central &amp; Northern Adriatic);            E for areas 2,3,6-9 (Sardinia Sea, Sardinia Strait, Central and Southern Tyrrhenian Sea);            F for areas 1,2,6 ,7 ( Corsica Sea, Sardinia sea and Central Tyrrhenian Sea);            G for areas 10 and 11 (Sicily Strait and Southern Ionio);            H for areas 8,9,10 (Southern Tyrrhenian Sea and Sicily Strait);            I: for areas 8,9,11,12 (Southern Tyrrhenian Sea and Ionio Sea);            J: for area 10 (Sicily Strait);            K: for areas 11,12 (Ionio Sea);            L for areas 6,7,8,9 ( Central and Southern Tyrrhenian Sea);            M: for areas 1, 4 and 5 (Corsica Sea, Ligurian Sea and Northern Tyrrhenian Sea);            N: for areas from 5 to 9 (Tyrrhenian Sea);            O: for areas from 4 to 7 (Ligurian Sea, Central-Southern Tyrrhenian).</p>	Italian, English
On receipt	--	<p>Near gale Warnings.            A: for areas 12 and 13 (Northern Ionio &amp; Southern Adriatic);            B,C: for areas 12 and 14 (Central and Southern Adriatic);            D: for areas 14, 15 (central &amp; Northern Adriatic);            E: for areas 2,3,6-9 (Sardinia Sea, Sardinia Strait, Central and Southern Tyrrhenian Sea);            F: for areas 1,2,6 ,7 (Corsica Sea, Sardinia sea and Central Tyrrhenian Sea);            G: for areas 10 and 11 (Sicily Strait and Southern Ionio);            H: for areas 8,9,10 (Southern Tyrrhenian Sea and Sicily Strait);            I: for areas 8,9,11,12 (Southern Tyrrhenian Sea and Ionio Sea);            J: for area 10 (Sicily Strait);            K: for areas 11,12 (Ionio Sea);            L: for areas 6,7,8,9 ( Central and Southern Tyrrhenian Sea);            M: for areas 1,4,and 5 (Corsica Sea, Ligurian Sea and Northern Tyrrhenian Sea);            N: for areas from 5 to 9 (Tyrrhenian Sea);            O: for areas from 4 to 7 (Ligurian Sea, Central-Southern Tyrrhenian).</p>	Italian, English

**ITALY****San Benedetto del Tronto****Position:** 42°57'00"N 013°53'00"E**Call Sign:** IQP**METAREA:** III**Area Covered:** Central Adriatic Sea (see map)

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RTF (MF)	A	1 855 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0135 0735 1335 1935	A	Near gale warnings, synopsis, 12 or 18 hours forecast and outlook for a further 12 hours, for areas 14, 15 (central and northern Adriatic). Clear decoding of FM 12 SYNOP.	Italian, English
On receipt 0403 0803 1203 1603 2003	A	Near gale warnings for areas 14 , 15.	Italian, English



**ITALY****Trieste (IQX)****Position:** 45°40'00"N 013°46'00"E**Call Sign:** IQX**METAREA:** III**Area Covered:** Northern and Central Adriatic Sea (see map)

Watch hours on: 2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RTF (MF)	A	2 624 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0135 0735 1335 1935	A	Near gale warnings, synopsis, 12 or 18 hours forecast and outlook for a further 12 hours, for areas 14, 15 (central and northern Adriatic). Clear decoding of FM 12 SYNOP	Italian, English
On receipt 0403 0803 1203 1603 2003	A	Near gale warnings for areas 14, 15	Italian, English

**JAMAICA****Jamaica Defence Force (CG)****Position:** 17°53'21"N 076°18'12"W**Call Sign:** 6YX**METAREA:** IV**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	8 291 kHz				
VHF	<b>B</b>	Ch 13				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0130, 1430, 1930	<b>B</b>	Synopsis for SW, NW and E Caribbean, and forecasts for coastal waters of Jamaica.	
1330, 1830	<b>A, B</b>		
1330, 1830	<b>A</b>	Synopsis for SW, NW and E Caribbean, and forecasts for coastal waters of Jamaica.	
H+00	<b>A</b>	Hurricane and tropical storms which are imminent, affecting Jamaica only.	
H+30	<b>B</b>	Hurricane and tropical storms which are imminent, affecting Jamaica only.	

**JAPAN****Hiroshima (JCG MRCC)****Position:** 34°26'23"N 132°55'08"E**Call Sign:** --**METAREA:** XI**Area Covered:**

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 16				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
On receipt 1015, 1615 LT	A	Local warnings.	Japanese, English

**JAPAN****Kagoshima (JCG MRCC)****Position:** 31°48'05"N 130°42'57"E**Call Sign:** --**METAREA:** XI**Area Covered:**

Watch hours on: 2187.5 kHz (MF)

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 16				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
On receipt	A	Storm warnings.	
On receipt 1020, 1620 LT	A	Navigational warnings: Local warnings.	Japanese, English

**JAPAN****Kobe (JCG MRCC)****Position:** 34°38'07"N 135°13'29"E**Call Sign:** --**METAREA:** XI**Area Covered:**

Watch hours on: 2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 16				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt	A	Storm warnings.	Japanese, English
On receipt 1033, 1633 LT	A	Navigational warnings: Local warnings.	Japanese, English

**JAPAN****Moji (JCG MRCC)****Position:** 33°52'00"N 130°35'00"E**Call Sign:** --**METAREA:** XI**Area Covered:**

Watch hours on: 2187.5 kHz (MF)

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 16				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
On receipt	A	Storm warnings.	Japanese, English
On receipt 1003, 1603 LT	A	Navigational warnings: Local warnings.	Japanese, English

**JAPAN****Nagoya (JCG MRCC)****Position:** 35°02'06"N 136°50'46"E**Call Sign:** --**METAREA:** XI**Area Covered:**

Watch hours on: 2187.5 kHz (MF)

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 16				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
On receipt	A	Storm warnings.	Japanese, English
On receipt 1010, 1610 LT	A	Navigational warnings: Local warnings.	Japanese, English

**JAPAN****Naha (JCG MRCC)****Position:** 26°12'27"N 127°39'04"E**Call Sign:** --**METAREA:** XI**Area Covered:**

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 16				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
On receipt	A	Storm warnings.	Japanese, English
On receipt	A	Storm warnings for Okinawa.	Japanese, English
On receipt 1010, 1610 LT	A	Navigational warnings: Local warnings.	Japanese, English
On receipt 1010, 1610 LT	A	Navigational warnings: Local warnings.	Japanese, English



**JAPAN****Niigata (JCG MRCC)****Position:** 37°57'08"N 139°06'48"E**Call Sign:** --**METAREA:** XI**Area Covered:**

Watch hours on: 2187.5 kHz (MF)

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 16				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
1015, 1615 LT	A	Local navigational warnings.	Japanese, English
On receipt	A	Storm warnings and local Navigational warnings.	Japanese, English

**JAPAN****Yokohama (JCG MRCC)****Position:** 35°14'00"N 139°55'00"E**Call Sign:** --**METAREA:** XI**Area Covered:** West Pacific/Sea of Japan

Watch hours on: 2187.5 kHz (MF)

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 16				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
On receipt	A	Storm warnings for Tokyo.	Japanese, English
On receipt 1020, 1620 LT	A	Navigational warnings: Local warnings.	Japanese, English

**JERSEY****Jersey Radio****Position:** 49°11'00"N 002°14'00"W**Call Sign:** --**METAREA:** I**Area Covered:** Channel Islands (UK)

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 25, 82(1)				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0645(2), 0745(2), 0845(2), 1245, 1845, 2245 On request	A	Near gale warnings, synopsis, 24 hour forecast and outlook for a further 24 hours for Channel Islands; S of 50°N, E of 3°W. Reports from meteorological observation stations.	
On receipt 0307, 0907, 1507, 2107	A	Near gale warnings for Channel Islands; S of 50°N, E of 3°W.	
On receipt 0433, 0833, 1633, 2033	A	Navigational warnings: For Channel Islands.	

**JORDAN****'Aqaba****Position:** 29°32'46"N 034°59'42"E**Call Sign:** JYO**METAREA:** IX**Area Covered:**

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 22				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0815, 1815	A	Situation, forecast, wind and sea state, temperature and pressure tendencies for Gulf of Aqaba.	English

**LATVIA****Riga Rescue Radio (MRCC)****Position:** 57°02'00"N 024°05'00"E**Call Sign:** --**METAREA:** I**Area Covered:**

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 71				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0703, 1503 LT (after navigational warnings) On request	A	Gale warnings and weather forecasts.	Latvian, English
0703, 1503 LT On request	A		Latvian, English
On receipt H+03, H+33	A	Gale warnings.	Latvian, English

Note: after prior announcement on VHF Ch 16 and 70 (DSC).

**LITHUANIA****Klaipeda****Position:** 56°01'00"N 021°05'00"E**Call Sign:** VTS**METAREA:** I**Area Covered:** South-Eastern Baltic Sea

Watch hours on: 2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 16				H24
VHF	A	Ch 09				H24

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On request	A	Forecasts and gale warnings for Southeastern Baltic Sea and the port of Klaipeda areas.	Lithuanian, English, Russian

**MALTA****Malta Radio (RCC)****Position:** 35°51'30"N 014°29'30"E**Call Sign:** 9HD**METAREA:** III**Area Covered:** Malta and 50 nautical mile radius

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	2 625 kHz				
VHF	<b>B</b>	160.65 MHz				
VHF	<b>C</b>	160.7 MHz				
VHF	<b>D</b>	160.75 MHz				
VHF	<b>E</b>	160.8 MHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0603	<b>A-E</b>	Gale, Moderate Gregale, Strong Gregale and Scend warnings are broadcast at end of the next silence period after receipt and at the nearest schedule time. Inference. Forecast for area valid 0600 -1800 UTC.	English
1003	<b>A-E</b>	Gale, Moderate Gregale, Strong Gregale and Scend warnings are broadcast at end of the next silence period after receipt and at the nearest schedule time. Inference. Forecast for area valid 0600 -1800 UTC.	English
1603	<b>A-E</b>	Gale, Moderate Gregale, Strong Gregale and Scend warnings are broadcast at end of the next silence period after receipt and at the nearest schedule time. Inference. Forecast for area valid 0600 -1800 UTC.	English
2103	<b>A-E</b>	Gale, Moderate Gregale, Strong Gregale and Scend warnings are broadcast at end of the next silence	English

**MARTINIQUE****ADRASEC (Martinique)****Position:** 14°38'27"N 061°02'33"W**Call Sign:** --**METAREA:** IV

**Area Covered:** Area 1: 25 miles around the coast.  
 Area 2: 10°N-20°N, 50°W-70°W.  
 Area 3: 10°N-20°N, 50°W-65°W.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
AM	<b>A</b>	3 700 kHz				1 Jul - 31 Oct
AM	<b>B</b>	7 050 kHz				1 Jul - 31 Oct

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0003	<b>A, B</b>	Area 2: Special advisories or bulletins. Dangerous meteorological phenomena. Area 3: Marine bulletin for the high seas: Storm warnings, weather summary, forecast for 24 hours from Trinidad to the Virgin Islands.	French

Operational during cyclone season only 1 July-31 October



**MARTINIQUE****Martinique (CROSSAG)****Position:** 14°36'17"N 061°04'53"W**Call Sign:** --**METAREA:** IV**Area Covered:** Area 1: 25 miles around the coast.

Area 2: 10°N-20°N, 50°W-70°W.

Area 3: 10°N-20°N, 57°W-65°W.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
AM	<b>G</b>	Call:2182 Bcst:254	Martinique	Martinique	14°36'N 61°04'W	
FM	<b>H</b>	Ch 11	Martinique			
FM	<b>I</b>	Call:Ch16 Bcst:Ch2	Martinique			
FM	<b>J</b>	Ch 80	Martinique	La Caravelle	14°45'N 60°55'W	
FM	<b>J</b>	Ch 64	Martinique	Grand-Rivière	14°52'N 61°11'W	
FM	<b>J</b>	Ch 80	Martinique	Bigot-Bellefontaine	14°41'N 61°08'W	
FM	<b>J</b>	Ch 79	Martinique	Le Marin	14°27'N 61°54'W	
FM	<b>K</b>	Call:Ch16 Bcst:Ch2	Martinique			

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1100-2300 H+30	<b>H,I</b>	AREA 3: Special advisories or bulletins. Dangerous meteorological phenomena.	French, English
1100-2300 H+30	<b>G-I</b>	AREA 1: Special advisories or bulletins. Dangerous meteorological phenomena.	French
1100-2300 H+33	<b>H,K</b>	AREA 2: Special advisories or bulletins. Dangerous meteorological phenomena.	French, English
1120-1450-2220-0020; 1130-1500-2230-0030; 1140-1510-2240-0040; 1150-1520-2250-0050;	<b>J</b>	AREA 1: Marine bulletin for coastal areas: Storm warnings, weather summary, forecast for 24 hours, last observations, hours for tides. Answering machine available at: 08 92 68 08 08.	French
1200-0000 every 2 hours	<b>G</b>	AREA 2 & 3: Special advisories or bulletins. Dangerous meteorological phenomena.	French, English
1333, 2215	<b>G</b>	AREA 3: Marine bulletin for the high seas: Storm warnings, weather summary, forecast for 24 hours from Trinidad to the Virgin Islands. Answering machine available at : 08 92 68 08 08.	French, English
1530, 2300, 0100	<b>H,I</b>	AREA 1: Marine bulletin for coastal areas: Storm warnings, weather summary, forecast for 24 hours, last observations, hours for tides. Answering machine available at : 08 92 68 08 08.	French

**MAURITIUS****Port Louis Harbour****Position:** --**Call Sign:** 3BB**METAREA:** VIII(S)**Area Covered:** Sea areas from 10°S to 30°S between 50°E and 60°E, and from the Equator to 30°S between 60°E and 90°E.

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	<b>A</b>	Ch 14 (1)				
RT (HF)	<b>B</b>	4 402 kHz (2)				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0115, 0730(3), 1315, 1930(3)	<b>B</b>	Warnings, synopsis and forecast for Areas 8A1-8A7.	English
0205, 1405	<b>A</b>	For local fishing vessels, in the vicinity of the Nazareth Bank (14°S 60°40'E) and the Saya de Malha Bank (10°00'S 61°00'E).	English
0433, 1233, 1603	<b>B</b>		English
On receipt Repeated every 2 hours	<b>A, B</b>	Cyclone warnings: for areas 8A1-8A7.	English

(1) After announcement on Ch 16.

(2) After announcement on 2 182 kHz.

(3) Only when cyclone warning is in force.

**MEXICO****Acapulco****Position:** 16°50'15"N 099°56'12"W**Call Sign:** XFA**METAREA:** XII**Area Covered:** Pacific coast

Watch hours on: Ch70 (VHF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	<b>A</b>	8 514 kHz				
VHF	<b>B</b>	Ch 25				
VHF	<b>C</b>	Ch 26				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0335, 0935, 1535	<b>A, C</b>		
0335, 0935, 1535	<b>B</b>	Weather messages for shipping.	

**MEXICO****Chetumal****Position:** 18°30'00"N 088°17'08"W**Call Sign:** XFP**METAREA:** IV**Area Covered:** Gulf coast

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (HF)	<b>A</b>	8 514 kHz				
VHF	<b>B</b>	Ch 26				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0335, 0935, 1535	<b>A, B</b>	Weather messages for shipping.	

**MEXICO****Ciudad del Carmen****Position:** 18°39'40"N 091°50'23"W**Call Sign:** XFB**METAREA:** IV**Area Covered:** Gulf coast

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (HF)	<b>A</b>	8 514 kHz				
VHF	<b>B</b>	Ch 26				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0335, 0935, 1535	<b>A, B</b>	Weather messages for shipping.	

**MEXICO****Coatzacoalcos****Position:** 18°09'36"N 094°26'51"W**Call Sign:** XFF**METAREA:** IV**Area Covered:** Gulf coast

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (HF)	<b>A</b>	8 514 kHz				
VHF	<b>B</b>	Ch 26				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0335, 0935, 1535	<b>A, B</b>	Weather messages for shipping.	

**MEXICO****Cozumel****Position:** 20°28'28"N 086°58'18"W**Call Sign:** XFC**METAREA:** IV**Area Covered:** Gulf coast

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	8 514 kHz				
VHF	B	Ch 26				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0335, 0935, 1535	A, B	Weather messages for shipping.	

**MEXICO****Ensenada****Position:** 31°51'08"N 116°37'07"W**Call Sign:** XFE**METAREA:** XII**Area Covered:** Pacific coast

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	<b>A</b>	8 514 kHz				
VHF	<b>B</b>	Ch 25				
VHF	<b>C</b>	Ch 26				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0335, 0935, 1535	<b>A, C</b>		
0335, 0935, 1535	<b>B</b>	Weather messages for shipping.	



**MEXICO****Lazaro Cardenas****Position:** 17°57'00"N 102°12'27"W**Call Sign:** XFL**METAREA:** XII**Area Covered:** Pacific coast

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	<b>A</b>	8 514 kHz				
VHF	<b>B</b>	Ch 25				
VHF	<b>C</b>	Ch 26				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0335, 0935, 1535	<b>A, C</b>		
0335, 0935, 1535	<b>B</b>	Weather messages for shipping.	

**MEXICO****Manzanillo****Position:** 19°01'00"N 104°19'00"W**Call Sign:** XFM**METAREA:** XII**Area Covered:** Pacific coast

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (HF)	<b>A</b>	8 514 kHz				
VHF	<b>B</b>	Ch 25				
VHF	<b>C</b>	Ch 26				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0335, 0935, 1535	<b>A, C</b>		
0335, 0935, 1535	<b>B</b>	Weather messages for shipping.	

**MEXICO****Mazatlán****Position:** 23°10'00"N 106°26'00"W**Call Sign:** XFL**METAREA:** XII**Area Covered:** Pacific coast

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (HF)	<b>A</b>	8 514 kHz				
VHF	<b>B</b>	Ch 25				
VHF	<b>C</b>	Ch 26				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0335, 0935, 1535	<b>A, C</b>		
0335, 0935, 1535	<b>B</b>	Weather messages for shipping.	

**MEXICO****Pajaritos****Position:** 18°08'00"N 094°25'00"W**Call Sign:** XFF2**METAREA:** IV**Area Covered:** Gulf coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	<b>A</b>	4 383.8 kHz				
VHF	<b>B</b>	Ch 16 71				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0320, 1520, 2120	<b>B</b>	Weather forecast for Gulf of Mexico.	English
0330, 1530, 2130	<b>A</b>	Weather forecast for Gulf of Mexico.	English

**MEXICO****Progreso****Position:** 21°16'08"N 089°41'47"W**Call Sign:** XFN**METAREA:** IV**Area Covered:** Gulf coast

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	8 514 kHz				
VHF	B	Ch 26				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0335, 0935, 1535	A, B	Weather messages for shipping.	

**MEXICO****Puerto Vallarta****Position:** 20°45'54"N 105°31'53"W**Call Sign:** --**METAREA:** XII**Area Covered:** Pacific coast

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	<b>A</b>	8 514 kHz				
VHF	<b>B</b>	Ch 25				
VHF	<b>C</b>	Ch 26				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0335, 0935, 1535	<b>A, C</b>		
0335, 0935, 1535	<b>B</b>	Weather messages for shipping.	

**MEXICO****Veracruz****Position:** 19°06'53"N 096°08'03"W**Call Sign:** XFU**METAREA:** IV**Area Covered:** Gulf coast

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (HF)	<b>A</b>	8 514 kHz				
VHF	<b>B</b>	Ch 26				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0335, 0935, 1535	<b>A, B</b>	Weather messages for shipping.	

**MONACO****Monaco****Position:** 43°47'47"N 007°24'54"E**Call Sign:** 3AC/3AF**METAREA:** III**Area Covered:** AREA 1: Western part of the mediterranean. Offshore areas: (a)Est Cabrera; (b) Baléares; (c) Minorque; (d) Lion; (e) Provence; (f) Ligure; (g) Corse; (h) Sardaigne; (i) Maddalena; (j) Elbe; (k) Alboran; (l) Palos (m) Alger; (n) West Cabrera; (o) Annaba; (p) Tunisie; (q) Carbonara; (r) Lipari; (s) Circeo.

AREA 2: Eastern part of the Mediterranean (sea areas on chart of METAREA 3).

AREA 3: North of the western part of the Mediterranean. Offshore areas: (a)Est Cabrera; (b) Baléares; (c) Minorque; (d) Lion; (e) Provence; (f) Ligure; (g) Corse; (h) Sardaigne; (i) Maddalena; (j) Elbe.

AREA 4: METAREA 2 - offshore and High Seas

AREA 5: Western part of the Mediterranean. From coast to 20 n miles.

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	<b>A</b>	13 146 kHz	3AC 12			
RT (HF)	<b>B</b>	17 260 kHz	3AC 16			
RT (HF)	<b>C</b>	22 768 kHz	3AC 22			
RT (HF)	<b>D</b>	4 363 kHz	3AC 4			
RT (HF)	<b>E</b>	8 728 kHz	3AC 8			
VHF	<b>F</b>	Ch 20 (1)				
VHF	<b>G</b>	Ch 22 (1)				
VHF	<b>H</b>	Ch 23				
VHF	<b>I</b>	Ch 24				
VHF	<b>J</b>	Ch 25				



**MONACO**

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0930	<b>A-C, E</b>	AREA 3: Repetition: Gale/storm warnings. General situation. Forecast by zones valid for 24 hours. Further weather outlook.	French, English
0930, 1403, 1930 LT	<b>F, G</b>	AREA 3: Repetition: Near gale warnings, Gale/storm warnings. Forecast valid for the next 24 hours. Further weather outlook.	French, English
0930, 1403, 1930 LT	<b>D, E</b>	AREA 1: Repetition: Gale/storm warnings. General situation. Forecast by zones valid for 24 hours. Further weather outlook.	French, English
1030	<b>A, E</b>	AREA 2: Repetition: Gale/storm warnings. General situation. Forecast by zones valid for 24 hours. Further weather outlook.	
Continuous broadcast updated 3 times a day (only for regular bulletins)	<b>J</b>	AREA 5: Provence from Port Camarague to Saint Raphaël Repetition: near gale warnings, gale/storm warnings. Forecast valid for the next 24 hours. Further weather outlook.	French, English
Continuous broadcast updated 3 times a day (only for regular bulletins)	<b>I</b>	AREA 5: Côtes de Corse (Corsican coasts) Repetition: near gale warnings, gale/storm warnings. Forecast valid for the next 24 hours. Further weather outlook.	French, English
Continuous broadcast updated 3 times a day (only for regular bulletins)	<b>H</b>	AREA 5: Côtes d'Azur: From Saint-Raphaël to Menton. Repetition: near gale warnings, gale/storm warnings. Forecast valid for the next 24 hours. Further weather outlook.	French, English

NOTE: Service assured on behalf of France.

(1) After announcement on Ch 16, including BMS (warnings) broadcast every hour at H+03.

**MONTENEGRO****Bar****Position:** 42°03'15"N 019°09'20"E**Call Sign:** YUW**METAREA:** III**Area Covered:** Adriatic Sea (see map)

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	1 720.4 kHz				
VHF	<b>B</b>	Ch 16 24				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0850, 1420, 2050	<b>A, B</b>	Storm warnings, synopsis, 24 hour forecast for the Adriatic sea.	Serbian, English
After weather bulletins 0850, 1420, 2050	<b>A, B</b>	Navigational warnings: For coastal waters of Montenegro.	Serbian, English

NOTE: Urgent warnings are broadcast on receipt on 2182 kHz and Ch 16 and are repeated after the next quiet period on RT.

# MOROCCO

Weather Forecast Areas

23 February 2008

**KEY**

- Limit of METAREA II
- Limit of forecast areas



**MOROCCO****Agadir****Position:** 30°22'19"N 009°33'18"W**Call Sign:** CND**METAREA:** II**Area Covered:** Coastal waters and area "LARGE MAROC".

Watch hours on: Ch70 (VHF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	1 911 kHz				
RT (MF)	<b>B</b>	13 080 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0937, 1637	<b>A, B</b>	Situation, development, forecasts valid for 30 hours and coastal swell warning. Special weather bulletin: Gale, storm, hurricane and coastal swell warning for the area affected.	French

**MOROCCO****Casablanca****Position:** 33°36'38"N 007°33'51"W**Call Sign:** CNP**METAREA:** II**Area Covered:** Coastal waters and area "LARGE MAROC"

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	2 586 kHz				
RT (MF)	<b>B</b>	2 182 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0945, 1645	<b>A</b>	Situation, development, forecasts valid for 30 hours and coastal swell warning. Special weather bulletin: Gale, storm, hurricane and coastal swell warning for the area affected.	French
On receipt and H+33	<b>B</b>	Situation, development, forecasts valid for 30 hours and coastal swell warning. Special weather bulletin: Gale, storm, hurricane and coastal swell warning for the area affected.	French

**MOROCCO****Safi****Position:** 32°19'10"N 009°14'59"W**Call Sign:** CND3**METAREA:** II**Area Covered:** Coastal waters and area "LARGE MAROC"

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 182 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt and H+03	A	Situation, development, forecasts valid for 30 hours and coastal swell warning. Special weather bulletin: Gale, storm, hurricane and coastal swell warning for the area affected.	French

**MOROCCO****Tanger****Position:** 35°47'20"N 005°55'35"W**Call Sign:** CNW**METAREA:** II**Area Covered:** Coastal waters and area "LARGE MAROC"

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	2 635 kHz				
RT (MF)	<b>B</b>	2 182 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt and H+03	<b>A, B</b>	Situation, development, forecasts valid for 30 hours and coastal swell warning. Special weather bulletin: Gale, storm, hurricane and coastal swell warning for the area affected.	French

**MOZAMBIQUE****Beira****Position:** 19°50'00"S 034°52'00"E**Call Sign:** C9C2 C9L**METAREA:** VII**Area Covered:** Sea area in the Mozambique channel from 12°S to 25°S.

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 601 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0820, 0835, 1135, 1420, 2020(1)	A	Storm warnings, situation, 24 hour forecast for coastal waters of Mozambique.	Portuguese

(1) In Portuguese repeated in English.



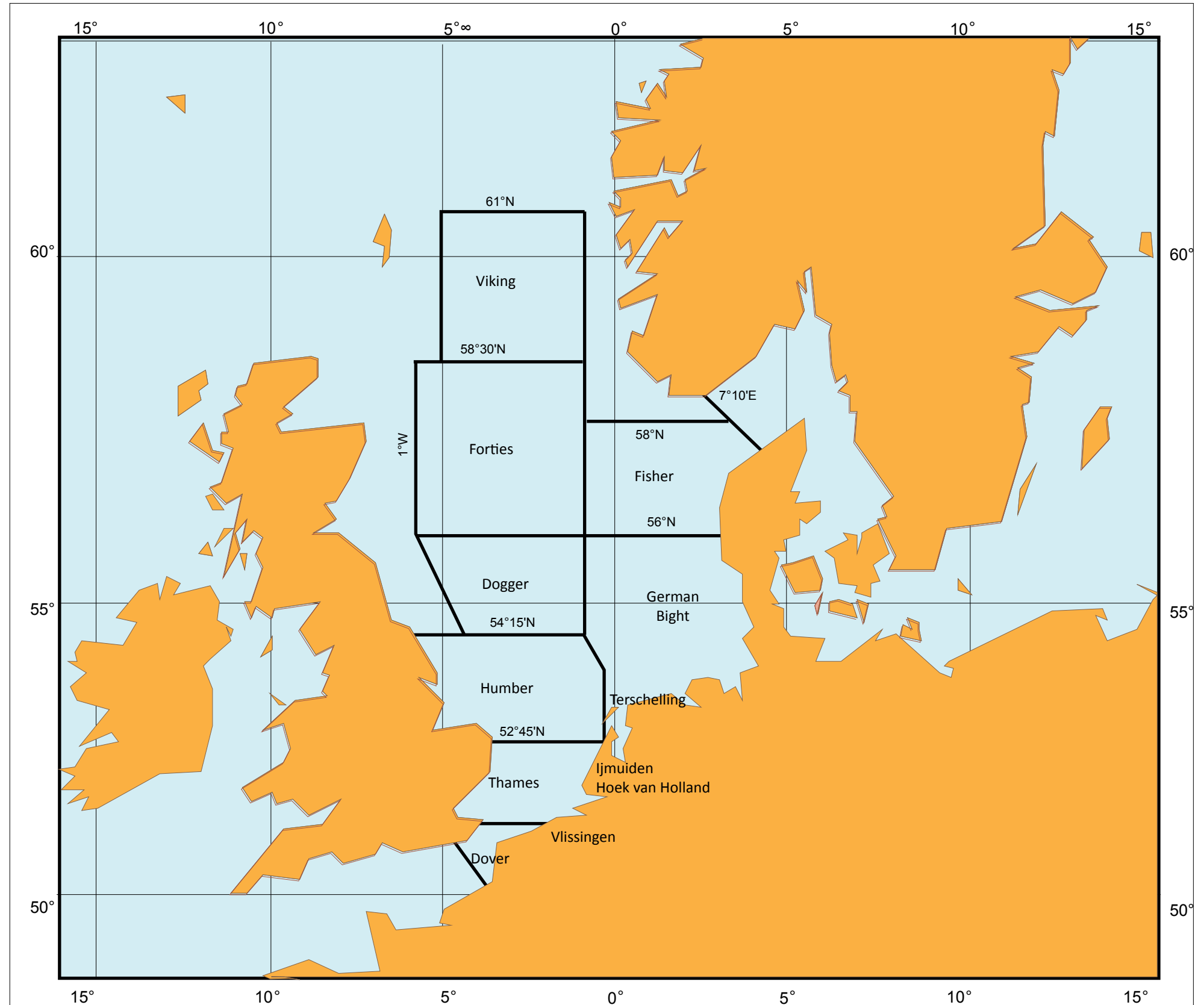
**NAMIBIA****Walvis Bay****Position:** 23°03'00"S 014°38'00"E**Call Sign:** V5W**METAREA:** VII**Area Covered:** Coastal waters 50 miles (approximately 100 km) seawards between Cunene River and Orange River, and the area Trades 24-hour watch

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	1 764 kHz				
RT (MF)	<b>B</b>	2 182 kHz			23°03'S 14°37'E	
RT (HF)	<b>C</b>	4 357 kHz				
VHF	<b>D</b>	Ch 16		Lüderitz	26°46'N 15°21'E	
VHF	<b>D</b>	Ch 16		Walvis Bay	23°03'S 14°37'E	
VHF	<b>E</b>	Ch 23		Lüderitz	26°46'N 15°21'E	
VHF	<b>E</b>	Ch 26		Walvis Bay	23°03'S 14°37'E	
VHF	<b>E</b>	Ch 27		Rössing	22°30'S 14°47'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0905, 1605	<b>A, C, E</b>	Navigational warnings: Local NAVAREA VII and coastal warnings for the coastal waters and economic zone of Namibia.	
0935, 1635	<b>A, C, E</b>	Gale warnings, forecast for Areas 1, 2 and 9.	
1235	<b>A, C, E</b>	Coastal weather reports from meteorological observation stations Möwe Bay, Walvis Bay and Diaz Point	
On receipt	<b>B, D</b>	Storm warnings for areas 1, 2 and 9. Navigational warnings: Urgent NAVAREA VII and coastal warnings for the coastal waters and economic zone of Namibia.	

# NETHERLANDS

## Weather Forecast Areas



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## NETHERLANDS

### Areas for Ice Reports

#### Areas for ice reports (AA-GG):

AA - Delfzijl/Eemshaven and approaches:

- 1 Delfzijl
- 2 Eemshaven
- 3 Eems: Oterdum-Eemshaven
- 4 Eems: Eemshaven-Huibertgat

BB - Harlingen and approach:

- 1 Harlingen
- 2 Along Pollendam
- 3 Blauwe Slenk
- 4 Vliestroom and Stortemelk

CC - Den Helder and approach:

- 1 Den Helder
- 2 Texelstroom and Marsdiep
- 3 Schulpengat

DD - Amsterdam/Zaandam and approaches:

- 1 Branch canal G and Zaandam harbours
- 2 Amsterdam East harbours
- 3 Amsterdam West harbours
- 4 Branch canal A (Beverwijk)
- 5 North Sea canal
- 6 IJmuiden locks - fairway buoy

EE - Rotterdam and approach:

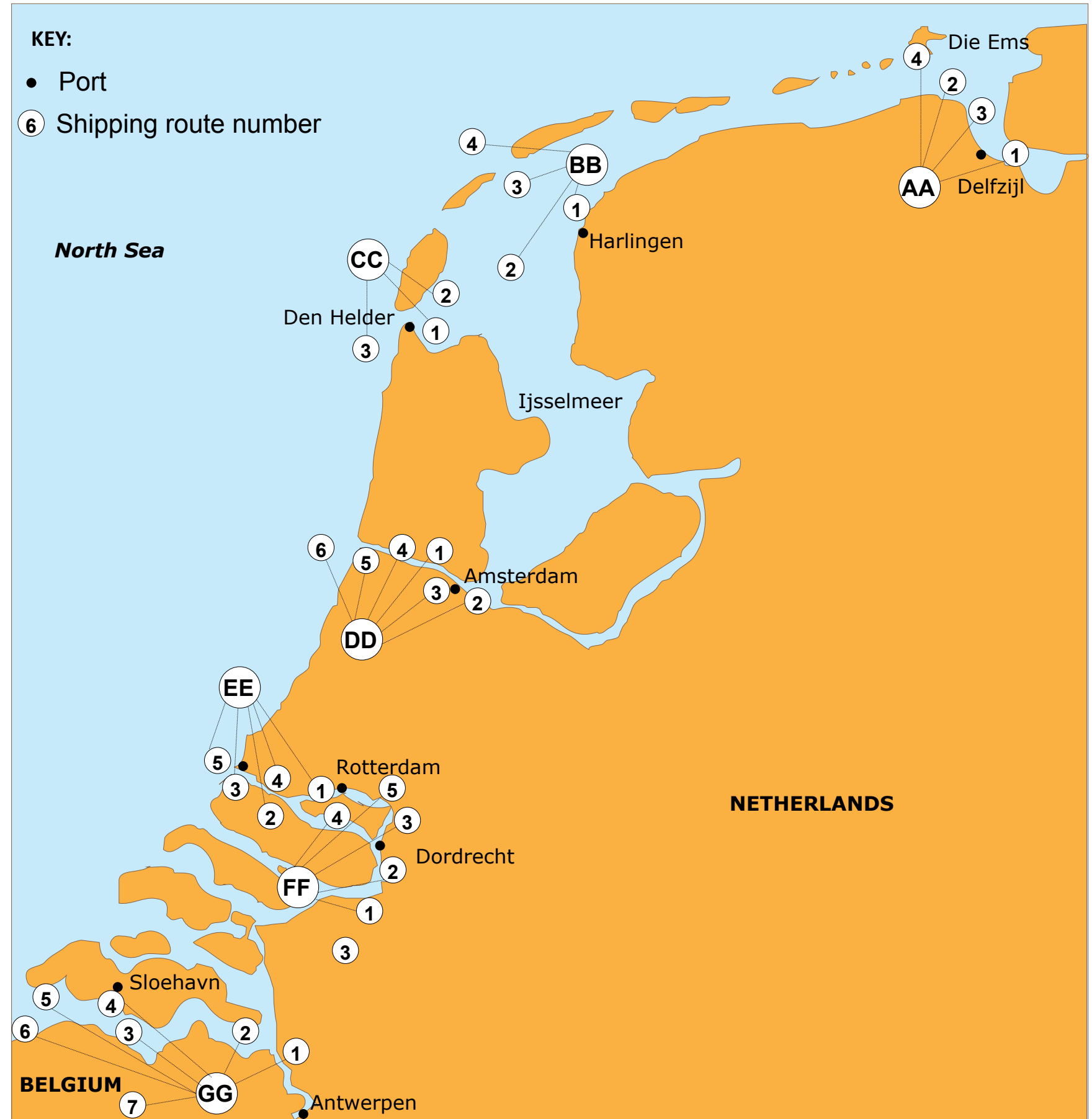
- 1 Nieuwe Maas and harbours
- 2 Botlek harbours
- 3 Europort
- 4 New Waterway
- 5 Hook of Holland - fairway buoy

FF - Rotterdam to Dordrecht/Moerdijk harbours:

- 1 Moerdijk
- 2 Moerdijk - Dordrecht
- 3 Dordrecht
- 4 Oude Maas
- 5 Noord

GG - Schelde harbours and approaches:

- 1 Antwerp harbours
- 2 Schelde: Antwerp-Hansweert
- 3 Schelde: Hansweert-Flushing roads
- 4 Sloe harbour
- 5 Oostgat
- 6 Wielingen
- 7 Canal Terneuzen-Gent



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# NETHERLANDS

## Netherlands Coastguard Radio

**Position:** --

**Call Sign:** PBK

**METAREA:** I

**Area Covered:** Thames, Humber, German Bight, Dogge

Watch hours on: 2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	3 673 kHz		Scheveningen	52°06'N 4°15'E	
VHF	<b>B</b>	Ch 83		Woensdrecht	51°26'N 4°20'E	
VHF	<b>B</b>	Ch 83		West Terschelling	53°21'N 5°13'E	
VHF	<b>B</b>	Ch 83		Schoorl	52°43'N 4°39'E	
VHF	<b>B</b>	Ch 83		Renesse	51°44'N 3°49'E	
VHF	<b>B</b>	Ch 83		Hoorn	52°39'N 5°06'E	
VHF	<b>B</b>	Ch 83		Appingedam	53°20'N 6°52'E	
VHF	<b>B</b>	Ch 23		Westkapelle	51°32'N 3°27'E	
VHF	<b>B</b>	Ch 23		Schiermonnikoog	53°29'N 6°09'E	
VHF	<b>B</b>	Ch 23		Scheveningen	52°06'N 4°15'E	
VHF	<b>B</b>	Ch 23		Kornwerdezand	53°04'N 5°20'E	
VHF	<b>B</b>	Ch 23		Den Helder	52°27'N 4°35'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0333, 0733, 1133, 1533, 1933, 2333	<b>B</b>	Near gale warnings for Netherlands coastal waters up to 30 n miles offshore (including larger inland water districts).	English, Dutch
0333, 0733, 1133, 1533, 1933, 2333	<b>A</b>	Near gale warnings for Areas Dover, Thames, Humber, German Bight, Dogger, Fisher, Forties and Viking.	English
0805, 1305, 1905, 2305 LT	<b>B</b>	Forecast for Netherlands coastal waters up to 30 n miles offshore (including larger inland water districts).	English, Dutch
0940, 2140	<b>A</b>	Forecast for areas Dover, Thames, Humber, German Bight, Dogger, Fisher, Forties and Viking.	English
On receipt 0333, 0733, 1133, 1533, 1933, 2333	<b>A, B</b>	Navigational warnings: In English on A. In English and Dutch on B. (NEW navigtional warnings will be announced on Ch 16, but NOT on VHF DSC unless they contain vital information).	English, Dutch
On receipt 1133	<b>A, B</b>	Navigational warnings: Ice reports. In English on A. In English and Dutch on B. (NEW navigtional warnings will be announced on Ch 16, but NOT on VHF DSC unless they contain vital information).	English, Dutch



**NEW AMSTERDAM ISLAND (FRANCE)****Martin de Vivies (New Amsterdam Island) OR Port-aux-Français (Kerguelen Island)****Position:** --**Call Sign:** FJY**METAREA:** VII**Area Covered:** Area from 30°S to 50°S and 50°E to 80°E

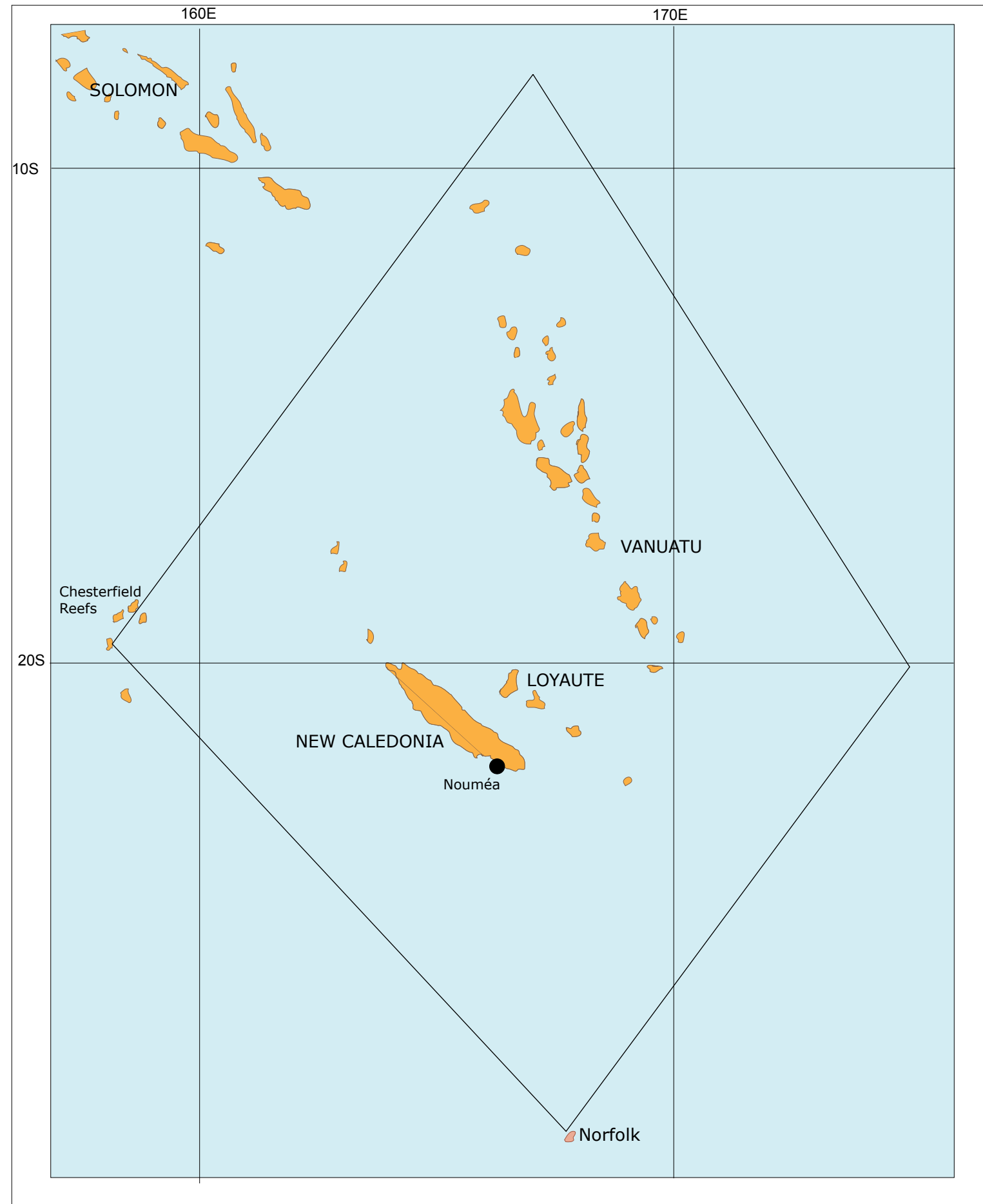
Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
	A	3 885 kHz	FJY4			

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On request	A	Marine bulletin. Forecasts valid for 24 hours. Storm warnings.	French, English

# NEW CALEDONIA

Forecast Areas



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**NEW CALEDONIA****Nouméa****Position:** 22°16'13"S 166°28'21"E**Call Sign:** FJP**METAREA:** X**Area Covered:** Caledonian Lagoon, Vanuatu, South-West Pacific

Watch hours on Ch70

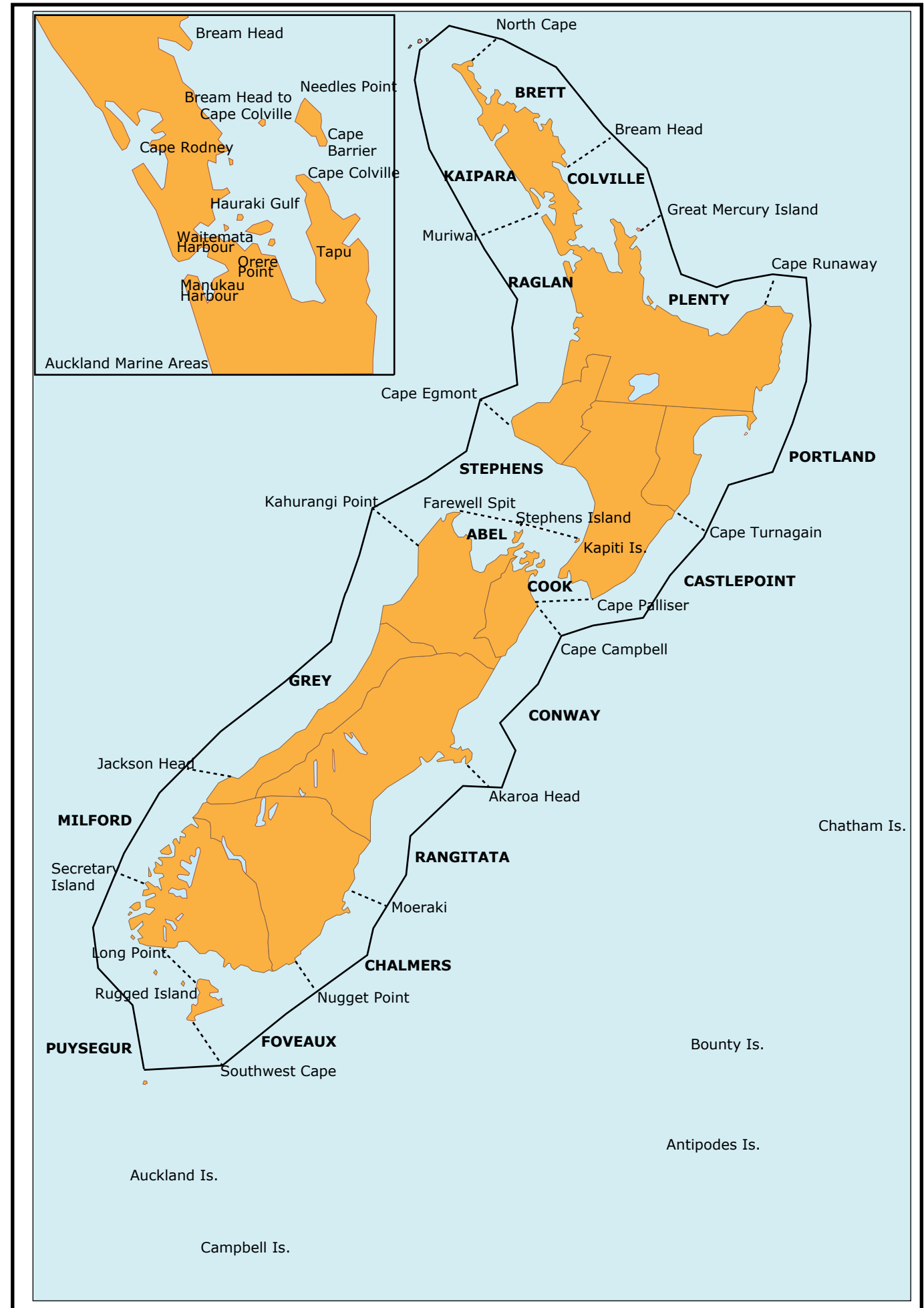
Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 16				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0430	A	Bulletin C: general situation on South-West Pacific (equator/45°S 130°E/170°W) at 0000; Bulletin E: Forecast valid 24 hours from 0000 for the area (8S/167E, 20S/175E, 29S/168E, 20S/158E); Bulletin H: Wind forecast on Caledonian Lagoon 24 hours validity from 0000; If any, Bulletin A: Special Marine Weather bulletin.	French
0730	A	Bulletin C: general situation on South-West Pacific (equator/45S 130E/170W) at 0000; Bulletin E: Forecast valid 24 hours from 0000 for the area (8S/167E, 20S/175E, 29S/168E, 20S/158E); Bulletin H: Wind forecast on Caledonian Lagoon 24 hours validity from 0600; If any, Bulletin A: special marine weather bulletin.	French
1930	A	Bulletin C: general situation on South-West Pacific (equator/45S 130E/170W) at 1200; Bulletin E: Forecast valid 24 hours from 1200 for the area (8S/167E, 20S/175E, 29S/168E, 20S/158E) Bulletin H: Wind forecast on Caledonian Lagoon 24 hours validity from 1800; If any, Bulletin A: special marine weather bulletin.	French
2230	A	Bulletin C: General situation on South-West Pacific (equator/45S 130E/170W) at 1200; Bulletin E: Forecast valid 24 hours from 1200 for the area (8S/167E,20S/175E,29S/168E,20S/158E); Bulletin H: Wind forecast on Caledonian Lagoon 24 hours validity from 2100; If any, Bulletin A: special marine weather bulletin.	French



# NEW ZEALAND

Coastal Forecast Areas



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**NEW ZEALAND**

**Taupo Maritime Radio**

**Position:** 38°52'00"S 176°26'00"E

**Call Sign:** ZLM

**METAREA:** XIV

**Area Covered:** New Zealand coastal waters; 25°S-55°S, 160°E-120°E

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	2207				
RT (HF)	<b>B</b>	4146			38°52'S 176°26'E	
RT (HF)	<b>C</b>	6224			38°52'S 176°26'E	
RT (HF)	<b>D</b>	8297			38°52'S 176°26'E	
RT (HF)	<b>E</b>	12 356			38°52'S 176°26'E	
RT (HF)	<b>F</b>	16 531			38°52'S 176°26'E	
VHF	<b>G</b>	Ch 67		Kaikoura	42°12'S 173°47'E	
VHF	<b>G</b>	Ch 67		Whangarei	35°32'S 174°05'E	
VHF	<b>G</b>	Ch 68		Cape Reinga	34°28'S 172°46'E	
VHF	<b>G</b>	Ch 67		Fox	43°36'S 169°46'E	
VHF	<b>G</b>	Ch 71		Auckland	36°56'S 174°35'E	
VHF	<b>G</b>	Ch 68		Akaroa	43°43'S 172°57'E	
VHF	<b>G</b>	Ch 67		Waitaki	44°38'S 170°54'E	
VHF	<b>G</b>	Ch 68		Bluff	40°06'S 168°38'E	
VHF	<b>G</b>	Ch 67		D'Urville	40°51'S 173°52'E	
VHF	<b>G</b>	Ch 68		Farewell	40°38'S 172°38'E	
VHF	<b>G</b>	Ch 71		Fiordland	44°54'S 167°20'E	
VHF	<b>G</b>	Ch 67		Taranaki	39°18'S 174°05'E	
VHF	<b>G</b>	Ch 67		Tolaga	38°34'S 178°06'E	
VHF	<b>G</b>	Ch 71		Kaitaia	35°10'S 173°31'E	
VHF	<b>G</b>	Ch 68		Napier	39°45'S 176°51'E	
VHF	<b>G</b>	Ch 68		Picton	41°16'S 174°07'E	
VHF	<b>G</b>	Ch 68		Plenty	37°32'S 175°45'E	
VHF	<b>G</b>	Ch 67		Puysegur	46°09'S 166°51'E	
VHF	<b>G</b>	Ch 71		Runaway	37°32'S 177°59'E	
VHF	<b>G</b>	Ch 71		Stewart Island	46°56'S 167°52'E	
VHF	<b>G</b>	Ch 71		Cape Egmont	39°18'S 173°59'E	
VHF	<b>G</b>	Ch 67 68 69 71		Great Barrier Is	36°20'S 175°31'E	
VHF	<b>G</b>	Ch 68		Greymouth	42°24'S 171°21'E	
VHF	<b>G</b>	Ch 71		Chalmers	45°49'S 170°33'E	
VHF	<b>G</b>	Ch 69		Wanganui	39°49'S 174°56'E	
VHF	<b>G</b>	Ch 71		Wellington	41°14'S 176°47'E	
VHF	<b>G</b>	Ch 71		Westport	41°47'S 171°44'E	
VHF	<b>G</b>	Ch 67		Wairarapa	41°19'S 175°46'E	

## NEW ZEALAND

VHF	<b>H</b>	Ch 60	Chatham Islands	43°43'S 176°35'W
VHF	<b>H</b>	Ch 62	Pitt Islands	44°16'S 176°15'W

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0133, 0533, 0803, 1203, 1333, 1733, 2003 LT	<b>A-C</b>	Coastal reports for shipping.	
0133, 0533, 1333, 1733 LT	<b>A-C</b>	Meteorological warnings, synopsis and forecasts for New Zealand coastal areas. Navigational warnings: Coastal navigational warnings for New Zealand.	
0303(1), 0903(1), 1503(1), 2103(1) LT	<b>C, E</b>	Meteorological warnings in force for NAVAREA XIV. Navigational warnings: For NAVAREA XIV.	
0303(1), 1503(1) LT	<b>C, E</b>	Synopsis and forecast for area Southern.	
0333(1), 0933(1), 1533(1), 2133(1) LT	<b>D, F</b>	Meteorological warnings in force for NAVAREA XIV. Navigational warnings: For NAVAREA XIV.	
0333(1), 1533(1) LT	<b>D, F</b>	Synopsis and forecast for area Southern.	
0533, 0733, 1333, 1733, 2133	<b>G</b>	Meteorological warnings, synopsis and forecasts for New Zealand coastal areas. Navigational warnings: Coastal navigational warnings for New Zealand.	
0533, 0733, 1033, 1333, 1733, 2133 LT	<b>G</b>	Coastal reports for shipping.	
0603, 1403, 1803, 2203 LT(2)	<b>H</b>	Coastal reports for Chatham Islands.	
0903(1), 2103(1) LT	<b>C, E</b>	Synopsis and forecast for areas Subtropic, Forties and Pacific.	
0933(1), 2133(1)	<b>D, F</b>	Synopsis and forecast for areas Subtropic, Forties and Pacific.	
On receipt	<b>A-C, G</b>	Meteorological warnings, synopsis and forecasts for New Zealand coastal areas. Navigational warnings: Coastal navigational warnings for New Zealand.	
On request	<b>A-C, G</b>	Navigational warnings: Coastal navigational warnings for New Zealand.	

Notes: Maritime Safety Information will be announced prior to broadcast on VHF Ch 16.

(1) Broadcasts made 1 hour later when NZDT is in force.

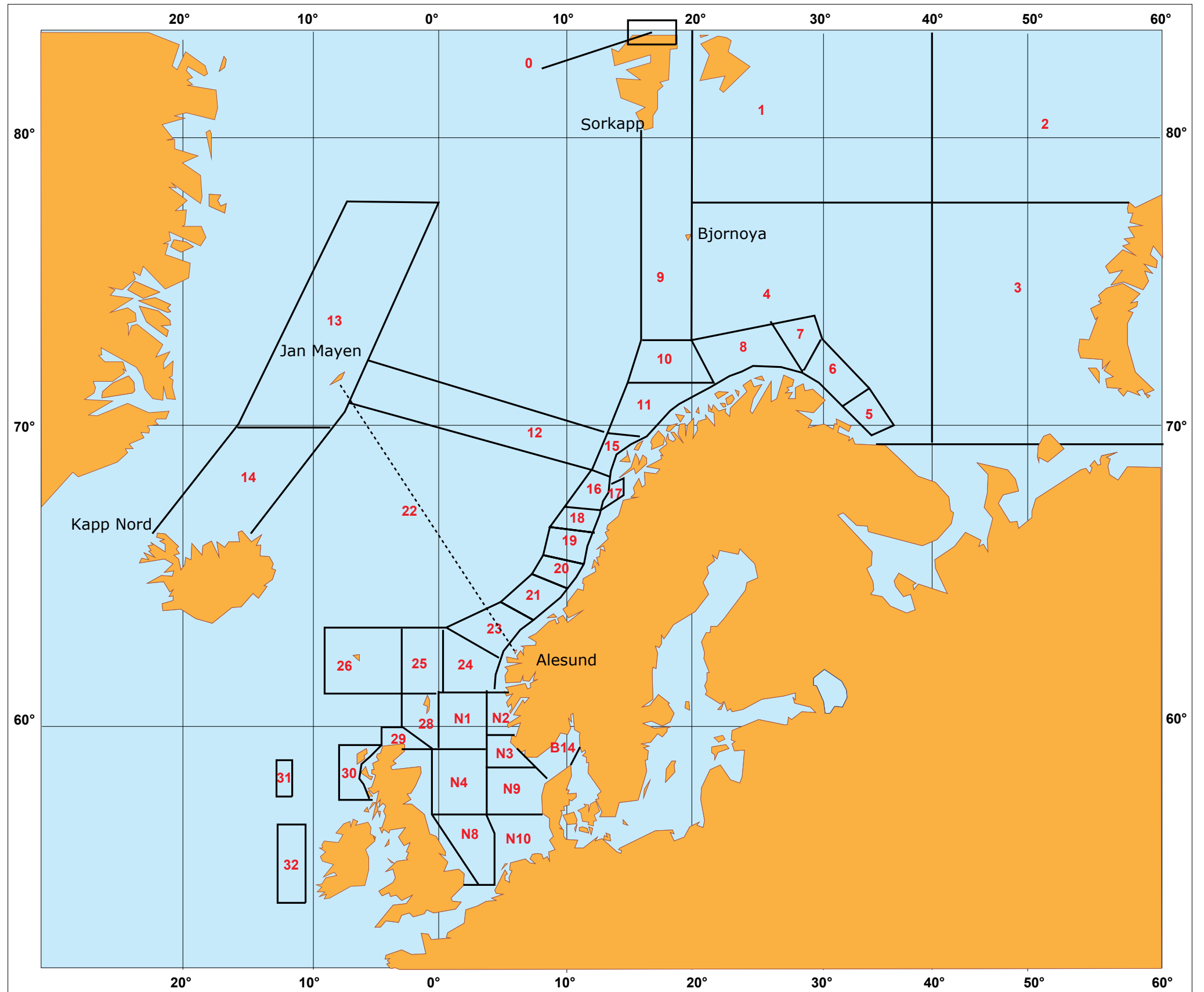
(2) Chatham Is. Local Time is 45 minutes ahead of NZLT.

# NORWAY

Weather Forecast Areas

KEY:

- 0. Fishing grounds north of Spitsbergen (Svalbard)
- 1. NW Barentshavet
- 2. NE Barentshavet
- 3. SE Barentshavet
- 4. SW Barentshavet
- 5. Kildinbanken
- 6. Nordbanken
- 7. Nordkappbanken
- 8. Hjelmsøybanken
- 9. Tromsø flaket to Sorkapp
- 10. Tromsø flaket
- 11. Banks of Tromsø
- 12. Vesteralsbankene to Jan Mayen
- 13. Western ice, from 70°N to 75°N
- 14. Western ice, from Kapp Nord to 70°N
- 15. Vesteralsbankene
- 16. Rostbanken
- 17. Outer Vestfjorden
- 18. Traenabanken
- 19. Sklinnabanken
- 20. Haltenbanken
- 21. Froyabanken
- 22. Alesund to Jan Mayen
- 23.
- 24.
- 25. West Tampen
- 26. Faeroybankene
- 28. Shetlandsbankene
- 29. Orknøyene
- 30. Hebridene
- 31. Rockall
- 32. Fishing grounds west of Ireland
- B14 Skagerrak
- N1 Viking
- N2 N. Utsira
- N3 S. Utsira
- N4 Fladen
- N8 Dogger
- N9 Fisker
- N10 Tyskebukta



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**NORWAY****Bjørnøya****Position:** 74°31'00"N 019°01'00"E**Call Sign:** LJB**METAREA:** I

**Area Covered:** Bear I. - Waters surrounding Bjørnøya: Squares B4, C4, C5 (see map)  
 In addition: January-February: Squares D6, D7; March-April-May-June: Squares C7, D6, D7; July-August-September-October:  
 Squares A5, A6, B5, B6

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	1 757 kHz(1)				
RT (MF)	<b>A</b>	1 722 kHz				
VHF	<b>B</b>	Ch 12(1)				
VHF	<b>B</b>	Ch 16				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1005, 2205	<b>A, B</b>	Weather forecasts for October - June for Areas A3, A4, B4, C4-C6. Weather forecast for July - September for Areas A3-A6, B4-B6, C4-C6.	English, Norwegian
On request	<b>A,B</b>	Weather warnings.	

(1) After prior announcement on 2 182 kHz and VHF Ch 16.

**NORWAY****Bodø Radio****Position:** 67°16'00"N 014°23'00"E**Call Sign:** LGP**METAREA:** I**Area Covered:** North Atlantic to Barents Sea - Norwegian Sea Areas

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	1 710 kHz		Sandnessjoen	66°01'N 12°37'E	
RT (MF)	<b>A</b>	1 770 kHz		Bodø	67°16'N 14°23'E	
RT (MF)	<b>A</b>	1 659 kHz		Andenes	69°18'N 16°04'E	
VHF	<b>B</b>	Ch 64 21		Sortland, Stamnes	68°49'N 15°29'E	
VHF	<b>B</b>	Ch 27		Andenes, Ramnan	69°17'N 16°01'E	
VHF	<b>B</b>	Ch 26 66 (1)		Bodo, Ronvikfjell	67°18'N 14°27'E	
VHF	<b>B</b>	Ch 24 28 (1)		Hadsel, Storheia	68°33'N 14°52'E	
VHF	<b>B</b>	Ch 25 66 (1)		Harstad, Harstadasen	68°48'N 16°31'E	
VHF	<b>B</b>	Ch 19 78 (1)		Harstad, Sorollnes	68°44'N 16°50'E	
VHF	<b>B</b>	Ch 01		Leirfjord, Horva	66°01'N 12°49'E	
VHF	<b>B</b>	Ch 28		Lenvik, Kistefjell	69°18'N 18°08'E	
VHF	<b>B</b>	Ch 07		Lodingen, Fenes	68°24'N 15°58'E	
VHF	<b>B</b>	Ch 62 27 (1)		Meloy	66°51'N 13°39'E	
VHF	<b>B</b>	Ch 28		Mo I Rana, Vettahaugen	66°13'N 13°45'E	
VHF	<b>B</b>	Ch 65 22 (1)		Narvik, Veggen	68°28'N 17°10'E	
VHF	<b>B</b>	Ch 02 60 (1)		Tromso, Sandoy	70°03'N 18°33'E	
VHF	<b>B</b>	Ch 20		Vestvagoy, Kvalnes	68°21'N 13°58'E	
VHF	<b>B</b>	Ch 04 22 (1)		Vesteralen, Kraknes	68°57'N 15°01'E	
VHF	<b>B</b>	Ch 63 60 (1)		Vega, Gulsvagfjell	65°38'N 11°54'E	
VHF	<b>B</b>	Ch 03 78 (1)		Vaeroy	67°40'N 12°38'E	
VHF	<b>B</b>	Ch 81		Tysfjord, Hellandsberg	68°02'N 16°07'E	
VHF	<b>B</b>	Ch 07		Nesna	66°12'N 13°01'E	
VHF	<b>B</b>	Ch 07		Tromso, Tonsnes	69°43'N 19°08'E	
VHF	<b>B</b>	Ch 21		Sorfold, Stamnes	68°49'N 15°29'E	
VHF	<b>B</b>	Ch 81		Tromso, Hillesoy	69°39'N 18°00'E	
VHF	<b>B</b>	Ch 05 20 (1)		Traenfjord, Hestmannen	66°32'N 12°49'E	
VHF	<b>B</b>	Ch 63 79		Tjeldsundet, Balstadasen	68°34'N 16°17'E	
VHF	<b>B</b>	Ch 84 01 (1)		Svolvar, Raften	68°24'N 15°07'E	
VHF	<b>B</b>	Ch 23 60 (1)		Steigen, Smatindane	67°50'N 15°00'E	
VHF	<b>B</b>	Ch 25 22 (1)		Vevelstad, Vistenfjord	65°39'N 12°37'E	
VHF	<b>B</b>	Ch 26 01 (1)		Tromso, Roestbakken	69°39'N 18°57'E	

**NORWAY**

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
1203, 2303 0233, 0633, 1033, 1433, 1833, 2233	<b>A</b>	Weather forecast for coastal waters off northern Norway 65°N to 70°N and from 0°W to 10°W. Area north and north-east of Iceland and north-eastern part of Denmark Strait. Norwegian, arctic and Barents Seas north of 70°N.	English, Norwegian
On receipt 0233, 0633, 1033, 1433, 1833, 2233	<b>A, B</b>	Storm and gale warnings for coastal waters and adjoining sea areas. Navigational warnings: All navigational warnings are repeated daily at 1033 for 7 days.	English, Norwegian
On request	<b>A, B</b>	Storm and gale warnings. Navigational warnings and ice reports.	English, Norwegian

**NORWAY****Florø Radio****Position:** 61°36'00"N 005°02'13"E**Call Sign:** LGL**METAREA:** I**Area Covered:** Norwegian coastal waters and adjacent areas within the economic zone (200 n.m.)

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	1 782 kHz		Orlandet	63°40'N 9°33'E	
RT (MF)	<b>A</b>	1 680 kHz		Floro	61°36'N 5°00'E	
VHF	<b>B</b>	Ch 27		Bremanger	61°52'N 5°00'E	
VHF	<b>B</b>	Ch 79		Gulen	61°02'N 5°10'E	
VHF	<b>B</b>	Ch 60		Gudvangen	60°53'N 6°55'E	
VHF	<b>B</b>	Ch 27		Geiranger	62°06'N 7°13'E	
VHF	<b>B</b>	Ch 20		Foerde, Kinn	61°34'N 4°46'E	
VHF	<b>B</b>	Ch 81		Hareid,Hjorungnes	62°21'N 6°07'E	
VHF	<b>B</b>	Ch 81		Buholmraen, Yttervag	64°18'N 10°18'E	
VHF	<b>B</b>	Ch 78		Heidrun (Rig)	65°20'N 7°19'E	
VHF	<b>B</b>	Ch 22		Brattvag, Gamlemstvet	62°35'N 6°19'E	
VHF	<b>B</b>	Ch 07		Aurland	60°54'N 7°12'E	
VHF	<b>B</b>	Ch 79		Asgard B (Rig)	65°07'N 6°47'E	
VHF	<b>B</b>	Ch 21		Alesund, Nerlandshorn	62°21'N 5°33'E	
VHF	<b>B</b>	Ch 79		Alesund, Aksla	62°29'N 6°12'E	
VHF	<b>B</b>	Ch 01		Draugen (Rig)	64°21'N 7°47'E	
VHF	<b>B</b>	Ch 07		Mosvik, Skavlen	63°46'N 10°58'E	
VHF	<b>B</b>	Ch 28		Stjordal, Forbordsfjell	63°32'N 10°54'E	
VHF	<b>B</b>	Ch 28		Sogndal, Storehogen	61°10'N 7°08'E	
VHF	<b>B</b>	Ch 20		Rorvik, Falkhetta	64°53'N 11°14'E	
VHF	<b>B</b>	Ch 21		Oseberg A (Rig)	60°30'N 2°50'E	
VHF	<b>B</b>	Ch 78		Orskogfjellet	62°31'N 6°52'E	
VHF	<b>B</b>	Ch 66		Gullfaks A (Rig)	61°11'N 2°11'E	
VHF	<b>B</b>	Ch 21		Namsos, Spillumsaksla	64°27'N 11°32'E	
VHF	<b>B</b>	Ch 20		Tingvoll, Reinsfjell	62°56'N 7°56'E	
VHF	<b>B</b>	Ch 07		Molde	62°45'N 7°08'E	
VHF	<b>B</b>	Ch 60		Maloy, Raudeberg	62°00'N 5°09'E	
VHF	<b>B</b>	Ch 78		Litlefonni, Tjelbergodden	63°23'N 8°43'E	
VHF	<b>B</b>	Ch 01		Ligtvor - Valestrand	61°06'N 6°33'E	
VHF	<b>B</b>	Ch 27		Orland, Kopparen	63°48'N 9°45'E	
VHF	<b>B</b>	Ch 66		Kristiansund, Varden	63°07'N 7°42'E	
VHF	<b>B</b>	Ch 07		Norfjordeid, Sagtennene	61°54'N 6°07'E	



**NORWAY**

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
1215, 2315	<b>A</b>	Weather forecast for North Sea, coastal waters off southern and western Norway including Haltenbank, area from Storegga-Haltenbank to Greenwich meridian, Norwegian sea between 63°N and 65°N and from 0° to 10°W.	English, Norwegian
On receipt 0233, 0633, 1033, 1433, 1833, 2233	<b>A, B</b>	Storm and gale warnings for coastal waters and adjoining sea areas. Navigational warnings: All navigational warnings are repeated daily at 1033 for 7 days.	English, Norwegian
On request	<b>A, B</b>	Storm and gale warnings. In English and Norwegian.  Navigational warnings and ice reports.	

**NORWAY****Høpen Meteo Radio****Position:** 76°33'00"N 025°07'00"E**Call Sign:** LMR**METAREA:** I**Area Covered:**

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (MF)	<b>A</b>	1 750 kHz				
VHF	<b>B</b>	Ch 12				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
1105, 2305	<b>A, B</b>	Weather bulletins for Areas A5, A6, B5, B6, C5 and C6.	English, Norwegian

**NORWAY****Jan Mayen****Position:** 70°57'00"N 008°40'01"W**Call Sign:** LMJ**METAREA:** I**Area Covered:** Jan Mayen I.

Waters surrounding Jan Mayen: Square D2 (see map) - during the sealing season (15 March-5 May) squares C1, C2, C3, D1 and D3

Watch hours on: 2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	1 743 kHz				
VHF	<b>B</b>	Ch 16				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1203, 2303	<b>A</b>	Weather forecast for coastal waters off Northern Norway 65°N to 70°N and from 0° to 10°W. Area north and north-east of Iceland and north-eastern part of Denmark Strait. Norwegian, Arctic and Barents Seas north of 70°N.	English, Norwegian
On request	<b>A, B</b>	Weather warnings. Navigational warnings and ice reports.	English, Norwegian

**NORWAY****Rogaland Radio****Position:** 58°53'00"N 005°38'00"E**Call Sign:** LGQ**METAREA:** I**Area Covered:** Norwegian coastal waters and adjacent areas within the economic zone (200 n.m.) - N.Sea/Gulf of Bothania/Finland

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	1 785 kHz		Farsund	58°04'N 6°45'E	
RT (MF)	<b>A</b>	1 728 kHz		Bergen	60°43'N 4°53'E	
RT (MF)	<b>A</b>	1 692 kHz		Vigre	58°39'N 05°36'W	
VHF	<b>B</b>	Ch 79		Lindesnes, Skibmannsheia	58°01'N 7°04'E	
VHF	<b>B</b>	Ch 22		Bergen, Lindas, Gladihaug	60°35'N 5°20'E	
VHF	<b>B</b>	Ch 60		Bergen, Rundemanen	60°25'N 5°22'E	
VHF	<b>B</b>	Ch 78		Bjerkreim, Urdalsnipa	58°35'N 6°04'E	
VHF	<b>B</b>	Ch 66		Draupner (Rig)	58°11'N 2°28'E	
VHF	<b>B</b>	Ch 20		Ekofisk (Rig)	56°33'N 3°13'E	
VHF	<b>B</b>	Ch 01		Haugesund, Steinsfjeld	59°25'N 5°20'E	
VHF	<b>B</b>	Ch 22		Heimdal	59°34'N 2°14'E	
VHF	<b>B</b>	Ch 20		Lifjell, Sandnes	58°55'N 5°47'E	
VHF	<b>B</b>	Ch 07		Lista, Storefjell	58°09'N 6°43'E	
VHF	<b>B</b>	Ch 60		Mandal, Husheia	58°01'N 7°55'E	
VHF	<b>B</b>	Ch 79		Sand, Pestasen	59°29'N 6°15'E	
VHF	<b>B</b>	Ch 79		Sleipner A (Rig)	58°22'N 1°54'E	
VHF	<b>B</b>	Ch 81		Sotra, Pyttane	60°19'N 5°07'E	
VHF	<b>B</b>	Ch 28		Stavanger, Bokn	59°13'N 5°26'E	
VHF	<b>B</b>	Ch 07		Stord, Kattnakken	59°52'N 5°30'E	
VHF	<b>B</b>	Ch 81		Ula (Rig)	57°07'N 2°51'E	
VHF	<b>B</b>	Ch 22		Valhall (Rig)	56°17'N 3°24'E	
VHF	<b>B</b>	Ch 20		I. Hardanger, Grimo	60°24'N 6°39'E	

**NORWAY**

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
1215, 2315	<b>A</b>	Weather forecast for North Sea, coastal waters off southern and western Norway including Haltenbank, area from Storegga-Haltenbank to Greenwich meridian, Norwegian sea between 63°N and 65°N and from 0° to 10°W.	English, Norwegian
On receipt 0233, 0633, 1033, 1433, 1833, 2233	<b>A, B</b>	Storm and gale warnings for coastal waters and adjoining sea areas. Navigational warnings: All navigational warnings repeated daily at 1033 for 7 days.	English, Norwegian
On request	<b>A, B</b>	Storm and gale warnings. Navigational warnings: Ice reports.	

**NORWAY****Svalbard Radio****Position:** 78°02'00"N 013°40'00"E**Call Sign:** --**METAREA:** I**Area Covered:** Norwegian Sea Areas (Svalbard)

Watch hours on: 2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	1 731 kHz				
RT (MF)	<b>B</b>	4 357 kHz				
VHF	<b>C</b>	Ch 27		Isfjord	78°02'N 13°40'E	
VHF	<b>C</b>	Ch 25 21(1)		Kongsvegpasset	78°45'N 13°30'E	
VHF	<b>C</b>	Ch 26 20(1)		Bjomdalen, Longyearbyen	78°15'N 15°24'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1203, 2303	<b>A, B</b>	Weather forecast for coastal waters off northern Norway 65°N to 70°N and from 0° to 10°W. Area north and north-east of Iceland and north-eastern part of Denmark Strait. Norwegian, Arctic and Barents Seas north of 70°N.	English, Norwegian
On receipt 0233, 0633, 1033, 1433, 1833, 2233	<b>A, C</b>	Meteorological warnings.	English, Norwegian
On request	<b>A, C</b>	Storm and gale warnings. Navigational warnings and ice reports.	

(1) VHF channel will change to this channel during 2006.

**NORWAY****Tjøme Radio****Position:** 59°04'49"N 010°24'02"E**Call Sign:** LGT**METAREA:** I**Area Covered:** Norwegian coastal waters, Swedish border - Lindesnes

Ch70 (VHF)

2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	<b>A</b>	Ch 66		Oslo, Tryvann	59°59'N 10°40'E	
VHF	<b>A</b>	Ch 21		Tjøme	59°05'N 10°25'E	
VHF	<b>A</b>	Ch 20		Svendsheia	58°04'N 7°59'E	
VHF	<b>A</b>	Ch 20		Risor, Ranvikheia	58°43'N 9°12'E	
VHF	<b>A</b>	Ch 01		Porsgrunn, Vealos	59°14'N 9°42'E	
VHF	<b>A</b>	Ch 27		Kristiansand, Dolsveden	58°04'N 7°59'E	
VHF	<b>A</b>	Ch 81		Lillesand, Justoy	58°12'N 8°21'E	
VHF	<b>A</b>	Ch 07		Halden, Hoyas	59°11'N 11°26'E	
VHF	<b>A</b>	Ch 22		Arendal, Hisoy	58°27'N 8°46'E	
RT (MF)	<b>A</b>	1 665 kHz		Tjøme	59°05'N 10°25'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt 0233, 0633, 1033, 1433, 1833, 2233	<b>A</b>	Storm and gale warnings for coastal waters and adjoining sea areas. Navigational warnings: All navigational warnings are repeated daily at 1033 for 7 days.	Norwegian, English
On request	<b>A</b>	Storm and gale warnings. Navigational warnings: Ice reports.	Norwegian, English

**NORWAY****Vardø Radio****Position:** 70°22'00"N 031°06'00"E**Call Sign:** LGV**METAREA:** I**Area Covered:** N.Sea/Gulf of Bothania/Finland - Norwegian Sea Areas

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	1 695 kHz		Berlevag	70°52'N 29°04'E	
RT (MF)	<b>A</b>	1 713 kHz		Vardø	70°22'N 31°06'E	
RT (MF)	<b>A</b>	1 635 kHz		Hammerfest	70°40'N 23°40'E	
VHF	<b>B</b>	Ch 84 20(1)		Karlsøy, Torsvåg	70°14'N 19°30'E	
VHF	<b>B</b>	Ch 28		Alta, Helligfjell	70°07'N 22°56'E	
VHF	<b>B</b>	Ch 27		Batsfjord, Hamnefjell	70°40'N 23°40'E	
VHF	<b>B</b>	Ch 23 07(1)		Berlevag, Berlevagfjell	70°52'N 29°05'E	
VHF	<b>B</b>	Ch 27		Hammerfest, Hammerfjell	70°41'N 23°40'E	
VHF	<b>B</b>	Ch 03 22(1)		Hammerfest, Tyven	70°38'N 23°42'E	
VHF	<b>B</b>	Ch 24 21(1)		Havoysund, Havoygavlen	71°00'N 24°36'E	
VHF	<b>B</b>	Ch 26 01(1)		Vardø, Domen	70°20'N 31°02'E	
VHF	<b>B</b>	Ch 28		Kirkenes	69°45'N 30°08'E	
VHF	<b>B</b>	Ch 02 20(1)		Lebesby, Oksen	70°58'N 27°21'E	
VHF	<b>B</b>	Ch 25 78(1)		Mehamn, Trollhetta	71°03'N 28°07'E	
VHF	<b>B</b>	Ch 26 79(1)		Nordkapp, Honningsvåg	70°59'N 25°54'E	
VHF	<b>B</b>	Ch 65 79(1)		Slkervpy. Stissmesfkeéé	70°01'N 20°59'E	
VHF	<b>B</b>	Ch 23 66(1)		Skjervoy, Stussnesfjell	70°01'N 20°59'E	
VHF	<b>B</b>	Ch 04 66(1)		Tana, Algasvarre	70°28'N 28°13'E	
VHF	<b>B</b>	Ch 25 60(1)		Varangerfjord, Torsvarde	70°06'N 29°49'E	
VHF	<b>B</b>	Ch 04 78(1)		Hasvik, Fuglen	70°39'N 21°58'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1203, 2303	<b>A</b>	Weather forecast for coastal waters off northern Norway 65°N to 70°N and from 0° to 10°W. Area north and north-east of Iceland and north-eastern part of Denmark Strait. Norwegian, Arctic and Barents Seas north of 70°N.	English
On receipt 0233, 0633, 1033, 1433, 1833, 2233	<b>A, B</b>	Storm and gale warnings for coastal waters and adjoining sea areas. Navigational warnings: All navigational warnings are repeated daily at 1033 for 7 days.	Norwegian, English
On request	<b>A, B</b>	Storm and gale warnings.	



## **NORWAY**

(1) VHF channel will change to this channel during 2006.

**PAKISTAN****Karachi****Position:** --**Call Sign:** ASK**METAREA:** IX**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
		Not in operation				00, 06, 12, 18 UTC

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0600, 1800 **		For weather bulletin.	

Radio Address: Karachi Radio ASK Malir Receiving Centre Wireless Gate Karachi  
 Station keeping a watch for at least 30 minutes, beginning at 00, 06, 12, 18 daily. A watch is also kept for a similar minimum time at the beginning of the nearest "single operator period" following those standard synoptic hours.

\* Information to be obtained from Pakistan Navy

\*\*0230, 0630, 1030, 1430, 1830, 2230 (for weather warning)

**PAKISTAN****Karachi NAVAL****Position:** --**Call Sign:** AQP**METAREA:** IX**Area Covered:** METAREA IX

24-hour watch

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
WT (MF)	<b>A</b>	2 457.5 kHz				1400-0200
WT (HF)	<b>B</b>	4 325 kHz				On request
WT (HF)	<b>C</b>	6 390 kHz				H24
WT (HF)	<b>D</b>	8 490 kHz				H24
WT (HF)	<b>E</b>	13 011 kHz				H24
WT (HF)	<b>F</b>	17 093.6 kHz				0200-1400
WT (HF)	<b>G</b>	22 425 kHz				On request

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0200, 0400, 0600, 1000, 1200, 1400, 1800, 2200	<b>A, C-F</b>	Gale warnings, synopsis, forecast and 12 hour forecast (includes sea state) for Areas B00, B20, B25 and B30	
0200, 0600, 1000, 1400, 1800, 2200	<b>A, C-F</b>	Navigational warnings: Urgent NAVAREA IX warnings.	English
0400, 1200	<b>A, C, F</b>	Navigational warnings: NAVAREA IX warnings. Repeated on days 2, 5, 8, 12, 16, 20, 24 and thereafter on Fridays for important warnings.	English
0530, 1330, 2130	<b>A, C-F</b>	Gale warnings for Areas B00, B20, B25 and B30.	English
On request	<b>B, G</b>	Gale warnings, synopsis, forecast and 12 hour forecast (includes sea state) for Areas B00, B20, B25 and B30. Navigational warnings: Urgent NAVAREA IX warnings.	

(1) 0030 UTC broadcast is issued, if necessary, in the event of disturbance and invariably when a depression has formed.

(2) 0430, 1230 and 2030 UTC broadcasts are issued only on development of a cyclonic storm.

(3) 0830 and 1630 UTC broadcasts are daily broadcasts.

(4) Used in the event of interference.

(5) Special broadcasts at any hour are issued if observations received during the interval between two consecutive broadcasts indicate an unexpected development of a cyclonic storm or an unexpected movement of a cyclonic storm.

**PAPUA NEW GUINEA****Port Moresby****Position:** 09°28'00"S 147°11'00"E**Call Sign:** P2M**METAREA:** X**Area Covered:** Papua, New Guinea waters

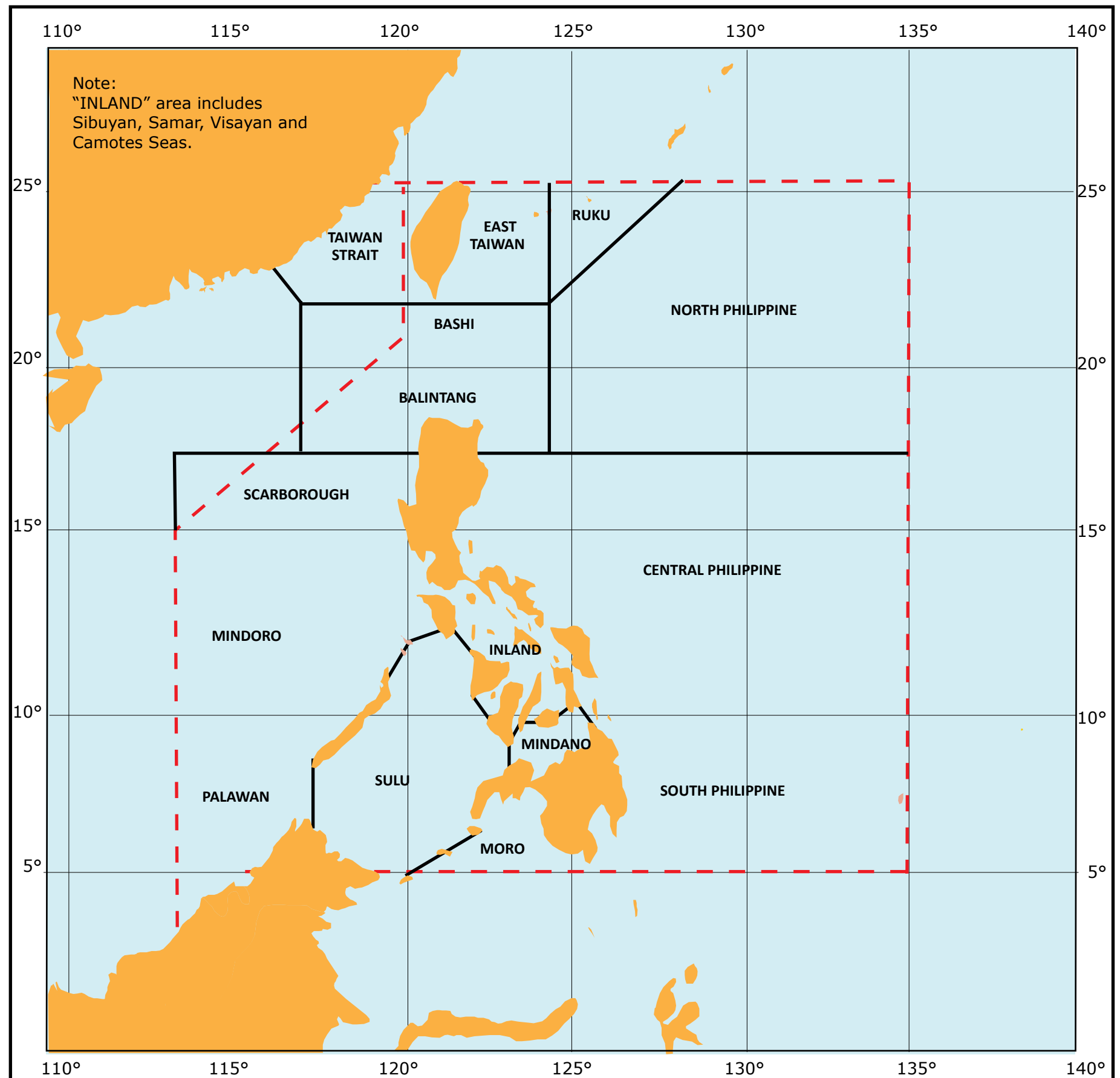
Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	<b>A</b>	4 405 kHz				2100-1200
RT (HF)	<b>B</b>	6 510 kHz				2100-1200

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0003, 0603	<b>A, B</b>	Gale warnings and 24 hour forecast for coastal waters of papua New Guinea, New Britain, Bougainville and Bismarck Archipelago.	
0603, 2203	<b>A, B</b>	Navigational warnings: For 0°-12°S, 141°E-160°E.	
Every even H+03	<b>A, B</b>	Gale warnings for 0°-12°S, 141°E-160°E	
On receipt	<b>A, B</b>	Storm warnings.	
On receipt At the end of the next even H+03	<b>A, B</b>	Navigational warnings: Urgent navigational warnings for 0°-12°S, 141°E-160°E.	

# PHILIPPINES

Forecast Areas



The designations employed and the presentation of material in this publication do not imply the expression of any opinion whatsoever on the part of the Secretariat of WMO concerning the legal status of any country, territory, city or area, or of its authorities, or concerning the delimitation of its frontiers or boundaries.

**PHILIPPINES****Manila****Position:** 14°35'09"N 121°01'00"E**Call Sign:** --**METAREA:** XI**Area Covered:** Pacific waters inside the boundary line: 25°N, 120°E - 25°N, 135°E - 5°N, 135°E - 5°N, 115°E - 15°N, 115°E - 21°N, 120°E - 25°N, 120°E (see map)

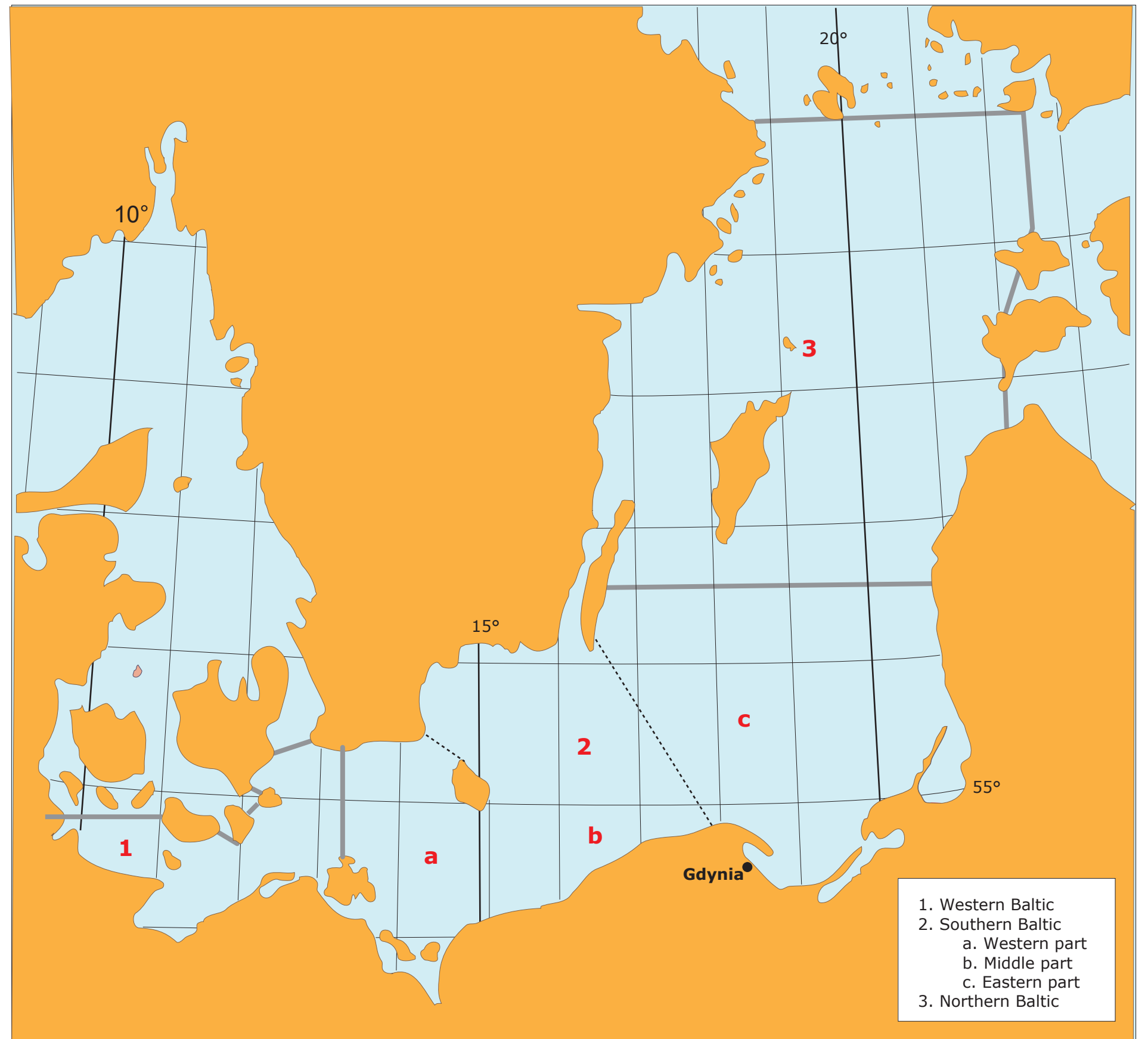
Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	<b>A</b>	8 776.8 kHz				
VHF	<b>B</b>	Ch 09 16 20				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0030, 0330, 0630, 0930, 1230	<b>A</b>	Navigational warnings: For Philippines coastal waters.	
0030, 0330, 0630, 0930, 1230	<b>A, B</b>	Storm warnings, 24 hour forecast.	English
On receipt On request	<b>A, B</b>	Storm warnings.	English

# POLAND

Weather Forecast Areas



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# POLAND

Districts, fairways and harbours of Polish coastal areas for ice reports (AA-CC)

## KEY:

### Regions for Ice Reports (AA-CC):

#### AA

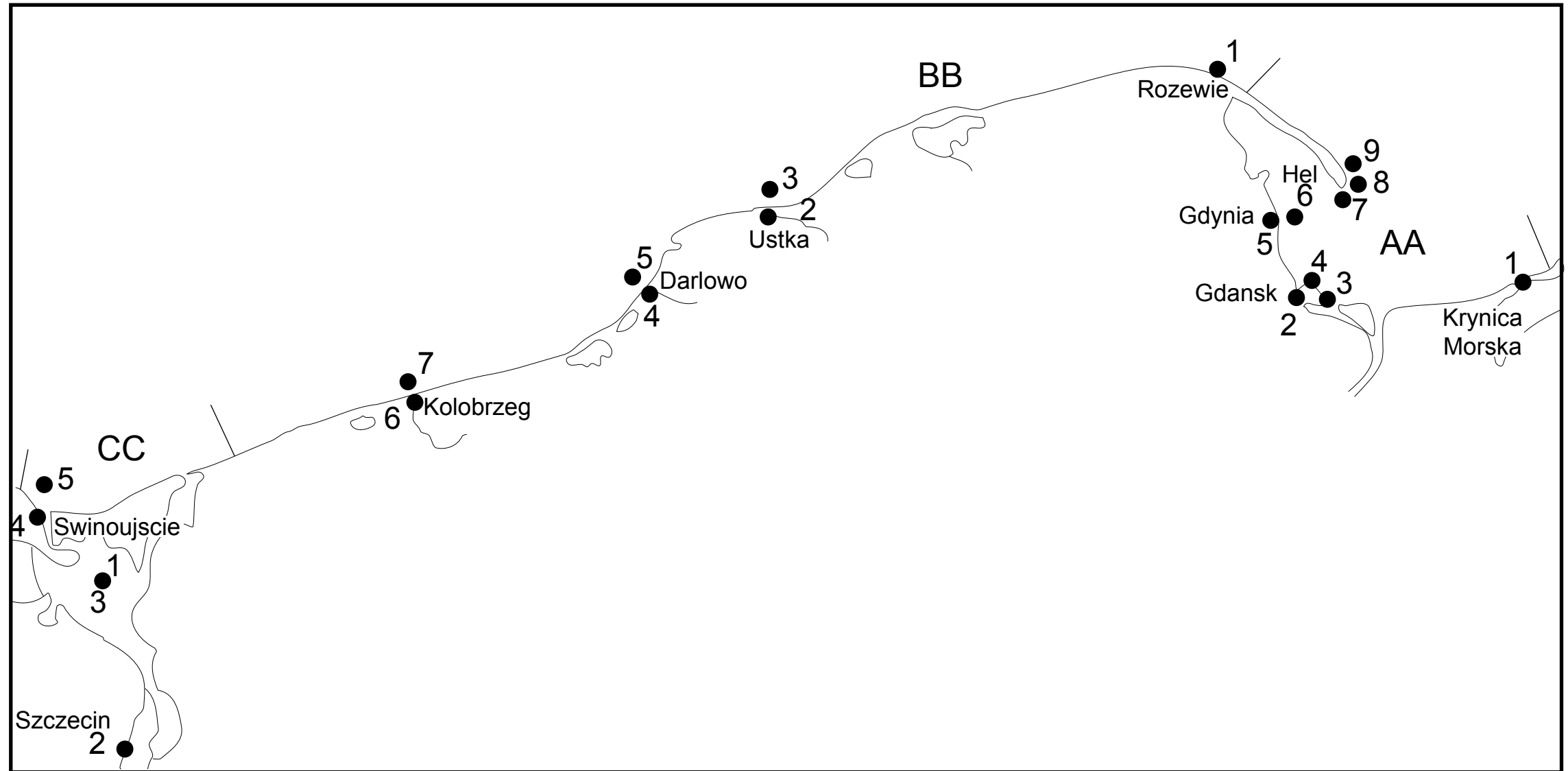
- 1 Sea area off Krynica Morska
- 2 Gdansk harbour
- 3 Gdansk-Port Polnocny harbour
- 4 Sea area off Gdansk
- 5 Gdynia harbour
- 6 Sea area off Gdynia
- 7 Sea area S of Hel
- 8 Sea area E of Hel
- 9 Sea area N of Hel

#### BB

- 1 Sea area off Rozewie
- 2 Ustka harbour
- 3 Sea area off Ustka
- 4 Darlowo harbour
- 5 Sea area off Darlowo
- 6 Kolobrzeg harbour
- 7 Sea area off Kolobrzeg

#### CC

- 1 Firth of Szczecin
- 2 Szczecin harbour
- 3 Fairway Swinoujscie-Szczecin
- 4 Swinoujscie harbour
- 5 Sea area off Swinoujscie



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**POLAND****Slupsk****Position:** --**Call Sign:** --**METAREA:** I**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	<b>A</b>	Ch 12				
VHF	<b>B</b>	Ch 71				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0705, 1235, 1835, 2335 LT	<b>A</b>	Forecast for fishermen and three day wind forecast for Areas 9 and 10.	
0715, 1245, 1845 LT	<b>B</b>	Navigational warnings: Coastal warnings.	English, Polish
On request	<b>A</b>	Navigational warnings: Ice reports.	

Note:  
 Weather bulletins will be announced prior to broadcast on VHF Ch 16.  
 Navigational warnings will be announced prior to broadcast on VHF Ch 12 and Ch 16.

**POLAND****Witowo Radio****Position:** 54°28'42"N 016°30'32"E**Call Sign:** SPS**METAREA:** I**Area Covered:**

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	2 720 kHz				
VHF	<b>B</b>	Ch 25		Swinoujscie		
VHF	<b>B</b>	Ch 24		Rozewei		
VHF	<b>B</b>	Ch 26		Rowokól		
VHF	<b>B</b>	Ch 26		Oksywie		
VHF	<b>B</b>	Ch 25		Krynica Morska		
VHF	<b>B</b>	Ch 24		Kolowo		
VHF	<b>B</b>	Ch 24		Kolobrzeg		
VHF	<b>B</b>	Ch 25		Jaroslawiec-Barzowice		
VHF	<b>B</b>	Ch 26		Grzywacz		

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0133, 0533, 0933, 1333, 1733, 2133 LT On request	<b>A, B</b>	Navigational warnings: For Polish coastal waters.	English, Polish
0135, 0735, 1335, 1935 LT On request	<b>A, B</b>	Weather forecast for Areas 7-11 and Polish coastal waters.	English, Polish
1035, 1335 LT On request	<b>A, B</b>	Navigational warnings: Ice Reports.	English, Polish

**POLAND****Zatoka Gdansk - Vessel Traffic Services****Position:** 54°22'14"N 018°38'08"E**Call Sign:** --**METAREA:** I**Area Covered:**

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 66				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0005, 0705, 1305, 1905 LT On request	A	Forecast for fishermen and three day wind forecast for Areas 9 and 10.	Polish
0105, 0805, 1405, 2005 LT On request	A	Forecast for fishermen and three day wind forecast for Areas 9 and 10.	English

Note: Weather bulletins and navigational warnings will be announced prior to broadcast on VHF Ch 16 and Ch 71.

# PORTUGAL

Weather Forecast Areas

**KEY:**

- Bulletin to Portugal Continental
- Bulletin to Madeira Islands
- Bulletin to Azores Islands
- Areas are out of METAREA II but they are included in Bulletin to Azores Islands



**PORTUGAL****Cte. Nunes Ribeiro (Radionaval)****Position:** --**Call Sign:** --**METAREA:** II**Area Covered:** AREA 1: Portuguese coastal waters, within 20 nautical miles offshore coast; northern zone (Rio Minho to Cabo Carvoeiro) and central zone (Cabo Carvoeiro to Cabo de S. Vicente).

AREA 2: Portuguese coastal waters, within 20 nautical miles offshore coast; northern zone (Rio Minho to Cabo Carvoeiro), central zone (Cabo Carvoeiro to Cabo de S. Vicente) and southern zone (Cabo S. Vicente to Rio Guadiana).

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	2 657 kHz		Monsanto	38°44'N 09°11'W	
VHF	<b>B</b>	Ch 11		Alges	38°44'N 09°11'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0905, 2105	<b>B</b>	AREA 2: Navigation warnings; Gale, Storm and Poor Visibility warnings; For 0705UTC (1905 UTC) broadcast: Synopsis of 00 UTC (12 UTC) and Forecasts (wind, visibility, significant weather, sea and swell) valid for 24 hours from 06 UTC (18 UTC).	Portuguese repeated in English
0905, 2105	<b>A, B</b>	AREA 1: Navigation warnings; Gale, Storm and Poor Visibility warnings; For 0705 UTC (1905 UTC) broadcast: Synopsis of 00UTC (12 UTC) and Forecasts (wind, visibility, significant weather, sea and swell) valid for 24 hours from 06 UTC (18 UTC).	Portuguese repeated in English

**PORTUGAL****Faro (Radionaval)****Position:** --**Call Sign:** --**METAREA:** II**Area Covered:** Portuguese coastal waters, within 20 nautical miles off the coast; central zone (Cabo Carvoeiro to Cabo de S. Vicente) and southern zone (Cabo S. Vicente to Rio Guadiana).

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 11				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0805, 2005	A	Navigation warnings. Gale, Storm and Poor Visibility warnings. For 0805 UTC (2005 UTC) broadcast: Synopsis of 00 UTC (12 UTC) and Forecasts (wind, visibility, significant weather, sea and swell) valid for 24 hours from 06 UTC (18 UTC).	Portuguese repeated in English

**PORTUGAL****Leixões (Radionaval)****Position:** --**Call Sign:** --**METAREA:** II**Area Covered:** Portuguese coastal waters, within 20 nautical miles offshore coast; northern zone (Rio Minho to Cabo Carvoeiro) and central zone (Cabo Carvoeiro to Cabo de S. Vicente).

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 11				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0700, 1900	A	Navigation warnings; Gale, Storm and Poor Visibility warnings; For 0805 UTC (2005 UTC) broadcast: Synopsis of 00 UTC (12 UTC) and Forecasts (wind, visibility, significant weather, sea and swell) valid for 24 hours from 06 UTC (18 UTC).	Portuguese

**PORTUGAL (AZORES)****Delgada (MRCC)****Position:** 52°27'12"S 069°33'15"W**Call Sign:** CBM5**METAREA:** II**Area Covered:** Coasts of Açores within 20 nautical miles off the coast - Eastern Group

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 11			37°44'N 25°40'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0830, 2000	A	Navigation warnings. Gale, Storm and Poor Visibility warnings. For 0935 UTC (2135 UTC) broadcast: Synopsis of 00 UTC (12UTC) and Forecasts (wind, visibility, significant weather, sea and swell) valid for 24 hours from 06 UTC (18 UTC) to the 3 groups of the Açores Islands: Western Group: Flores and Corvo; Central Group: Terceira, S. Jorge, Faial and Graciosa; Eastern Group: S. Miguel and Santa Maria.	Portuguese



**PORTUGAL (AZORES)****Horta (Radionaval)****Position:** 38°32'00"N 028°38'00"W**Call Sign:** CTH**METAREA:** II**Area Covered:** North Atlantic to Barents Sea

AREA 1: Coasts of Açores within 20 nautical miles off the coast Western and Central Group;

AREA 2: Eastern North Atlantic waters for : Sub-Zone 3: ALTAIR; Sub-Zone 5: AÇORES; Sub-Zone 7: IRVING; Sub-Zone 30:

MILNE; Sub-Zone 31: MARSALA

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	<b>A</b>	Ch 11			38°32'N 28°38'W	
RT (MF)	<b>B</b>	2 657 kHz			38°32'N 28°38'W	
VHF	<b>C</b>	Ch 11		Delgada		

**PORTUGAL (AZORES)**

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0830;2000 (LT)	<b>C</b>	<p>AREA 1:            Navigation warnings.            Gale, Storm and Poor Visibility warnings.            For 0935 UTC (2135 UTC) broadcast: Synopsis of 00 UTC (12UTC) and Forecasts (wind, visibility, significant weather, sea and swell) valid for 24 hours from 06 UTC (18 UTC) to the 3 groups of the Açores Islands:            Western Group: Flores and Corvo;            Central Group: Terceira, S. Jorge, Faial and Graciosa;            Eastern Group: S. Miguel and Santa Maria.</p>	Portuguese
0900, 2100	<b>A</b>	<p>AREA 1:            Navigation warnings.            Gale, Storm and Poor Visibility warnings.            For 0935 UTC (2135 UTC) broadcast: Synopsis of 00 UTC (12UTC) and Forecasts (wind, visibility, significant weather, sea and swell) valid for 24 hours from 06 UTC (18 UTC) to the 3 groups of the Açores Islands:            Western Group: Flores and Corvo;            Central Group: Terceira, S. Jorge, Faial and Graciosa;            Eastern Group: S. Miguel and Santa Maria.</p>	Portuguese
0935, 2135	<b>B</b>	<p>AREA 2: Navigation warnings within 200 nautical miles offshore coast of Açores;            Gale, Storm and Poor Visibility warnings;            For 0705UTC (1905UTC) broadcast: Synopsis of 00UTC (12UTC) and Forecasts (wind, visibility, significant weather, sea and swell) valid for 24 hours from 06UTC (18UTC).</p>	Portuguese repeated in English
0935, 2135	<b>B</b>	<p>AREA 1:            Navigation warnings.            Gale, Storm and Poor Visibility warnings.            For 0935 UTC (2135 UTC) broadcast: Synopsis of 00 UTC (12UTC) and Forecasts (wind, visibility, significant weather, sea and swell) valid for 24 hours from 06 UTC (18 UTC) to the 3 groups of the Açores Islands:            Western Group: Flores and Corvo;            Central Group: Terceira, S. Jorge, Faial and Graciosa;            Eastern Group: S. Miguel and Santa Maria.</p> <p>B: Navigation warnings within 200 nautical miles offshore coast of Açores;            Gale, Storm and Poor Visibility warnings;            For 0705UTC (1905UTC) broadcast: Synopsis of 00UTC (12UTC) and Forecasts (wind, visibility, significant weather, sea and swell) valid for 24 hours from 06UTC (18UTC).</p>	Portuguese

**PORTUGAL (MADEIRA)****Porto Santo (Radionaval)****Position:** 33°04'00"N 016°21'00"E**Call Sign:** --**METAREA:** II**Area Covered:** AREA 1: Coasts of Madeira within 20 nautical miles off the coast.

AREA 2: Eastern North Atlantic waters for: Sub-Zone 8: MADEIRA; Sub-Zone 21: CASABLANCA; Sub-Zone 22: AGADIR

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	<b>A</b>	Ch 11				
	<b>B</b>	2 657 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0735, 1935	<b>B</b>	AREA 2: · Navigation warnings within 200 nautical miles offshore coast of Madeira; Gale, Storm and Poor Visibility warnings;· For 0705 (1905) broadcast: Synopsis of 00 (12) and Forecasts (wind, visibility, significant weather, sea and swell) valid for 24 hours from 06 (18).	Portuguese
0735, 1935	<b>B</b>	AREA 1: · Navigation warnings;· Gale, Storm and Poor Visibility warnings;· For 0705 (1905) broadcast: Synopsis of 00 (12) and Forecasts (wind, visibility, significant weather, sea and swell) valid for 24 hours from 06 (18).	Portuguese repeated in English
1030, 1630	<b>A</b>	AREA 1: · Navigation warnings;· Gale, Storm and Poor Visibility warnings;· For 0705 (1905) broadcast: Synopsis of 00 (12) and Forecasts (wind, visibility, significant weather, sea and swell) valid for 24 hours from 06 (18).	Portuguese

# QATAR

Weather Forecast Areas  
Arabian Gulf from Kuwait Gulf waters to Strait of Harmouz



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# QATAR

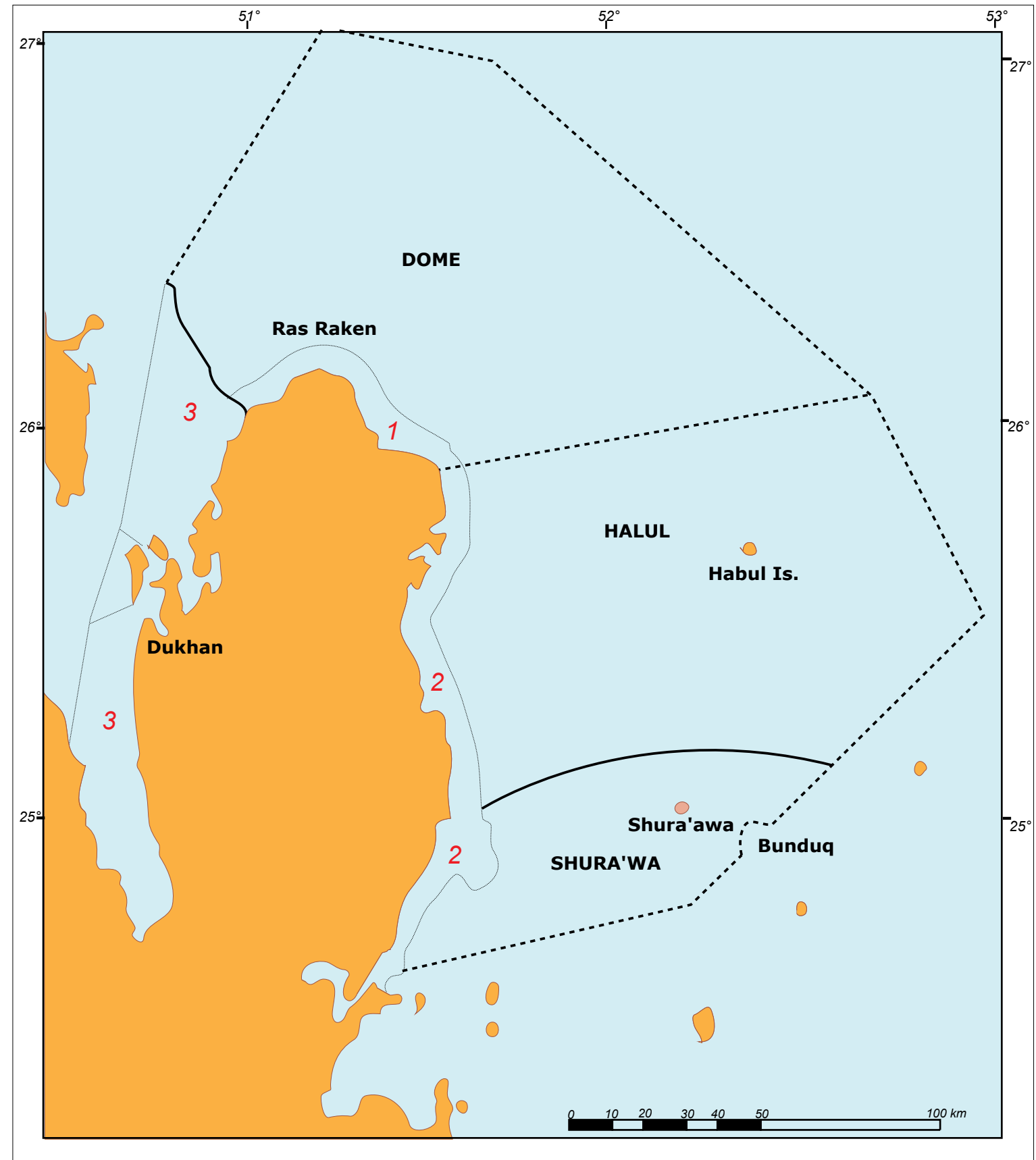
## Coastal Forecast Areas

### NOTE:

This map shows offshore forecast areas delineated by pecked lines. These lines are arbitrary median lines and do not denote any international boundaries.

### KEY:

- 1 Inshore North
- 2 Inshore East
- 3 Inshore West



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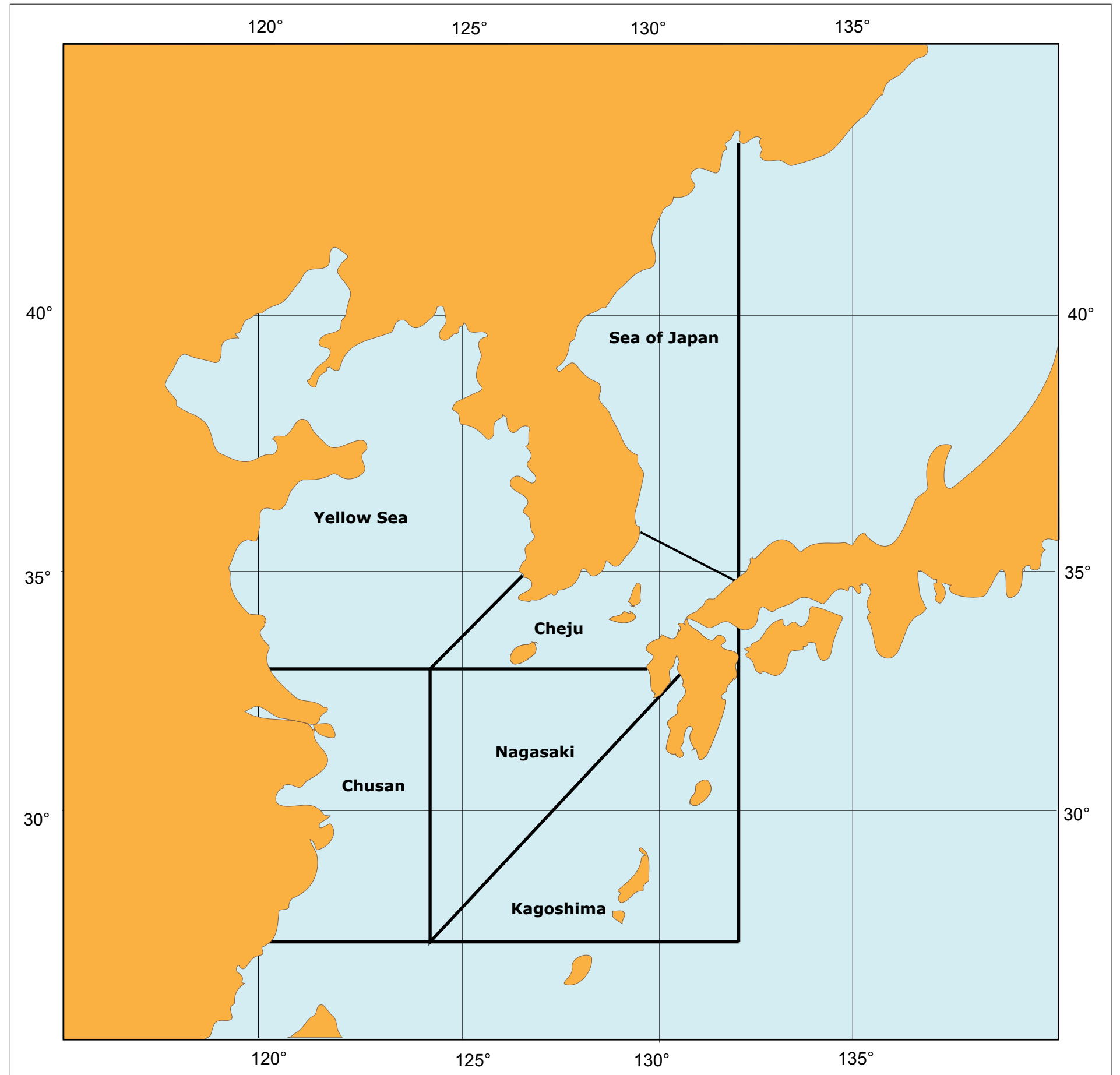
**QATAR****Ad Dawhah (Doha)****Position:** 25°42'00"N 051°35'00"E**Call Sign:** --**METAREA:** IX**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	2 768 kHz				
VHF	<b>B</b>	Ch 16				
VHF	<b>C</b>	Ch 24				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0433, 0833, 1233, 1633	<b>A, C</b>	Gale warnings for all areas. Navigational warnings: For Persian Gulf, Gulf of Oman and coastal waters of Qatar.	
0503, 1003, 1603	<b>A, C</b>	Gale warnings, synopsis and forecast for all areas.	
On receipt	<b>A, B</b>	Gale warnings for all areas. Navigational warnings: For Persian Gulf, Gulf of Oman and coastal waters of Qatar.	

**REPUBLIC OF KOREA**

Weather Forecast Areas



**REPUBLIC OF KOREA****Cheju (Jeju)****Position:** 33°31'00"N 126°32'00"E**Call Sign:** HLE**METAREA:** XI**Area Covered:** Area enclosed by the following line: 43°N 132°E to 27°N 132°E to 27°N 120°E, thence along coast to 43°N 132°E.

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (MF)	A	2 299 kHz				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0902, 1702	A		Korean, English



**REPUBLIC OF KOREA****Inch'on (Incheon)****Position:** 37°27'00"N 126°36'00"E**Call Sign:** HLC**METAREA:** XI**Area Covered:** Area enclosed by the following line: 43°N 132°E to 27°N 132°E to 27°N 120°E, thence along coast to 43°N 132°E.

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	2 284 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0003	A		Korean, English
0003	A		Korean, English

**REPUBLIC OF KOREA****Kangnung (Gangneung)****Position:** 37°46'00"N 128°54'00"E**Call Sign:** HLK**METAREA:** XI**Area Covered:** Area enclosed by the following line: 43°N 132°E to 27°N 132°E to 27°N 120°E, thence along coast to 43°N 132°E.

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (MF)	A	2 836 kHz				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0903	A		Korean, English

**REPUBLIC OF KOREA****Kunsan (Gunsan)****Position:** 35°58'00"N 126°33'00"E**Call Sign:** HLN**METAREA:** XI**Area Covered:** Area enclosed by the following line: 43°N 132°E to 27°N 132°E to 27°N 120°E, thence along coast to 43°N 132°E.

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (MF)	A	2 507 kHz				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0403	A		Korean, English

**RÉUNION****Réunion (MRCC)****Position:** 20°54'00"S 055°36'00"E**Call Sign:** --**METAREA:** VIII(S)**Area Covered:** Area from: 05°S to 30°S and 30°E to 90°E

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 600 kHz (1)				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0503 and on request	A	Marine bulletins valid for the next 24 hours.	French
H+15 from (0400-1600) (2)(3)	A	Special Marine weather bulletin: gale/storm/hurricane and cyclone warnings, and warnings of calm and cancellation. Broadcasts carried out for the transmission of a special Marine weather bulletin concerning the area are continued until H+8 hours, H being the time at which the bulletin concerning a calm or cancellation is prepared.	French, English

(1) After preliminary call on 500 kHz and 2182 kHz. In the case of special Marine bulletins, the call is preceded by the safety signal TTT.

(2) When a special Marine weather bulletin is present, it is broadcast every hour from 0400 to 1600 UTC (H+15 by A1A and H+03 by J3E). In the event of a tropical cyclone watch or warning in La Reunion, the bulletin is broadcast from 0000 to 2400 UTC.

(3) On Sundays and public holidays from 0400 to 1100 UTC.

**ROMANIA****Constanta (Constantza) Radio****Position:** 44°06'18"N 028°38'00"E**Call Sign:** YQI**METAREA:** III**Area Covered:** Western part of the Black Sea:45°13'N 29°40'E; 49°09'N 29°58'E; 44°30'N 30°16'E; 44°15'N 30°24'E; 43°41'N 30°32'E; 43°44'N 29°02'E; 43°40'N 29°00'E;  
43°45'N 28°36'E

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
	<b>A</b>	446.5 kHz(1)				
RT (MF)	<b>B</b>	2 748 kHz(2)				
VHF	<b>C</b>	Ch 12, 26(3)				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0650, 1250, 1850	<b>A</b>	Forecast valid for 24 hours for the area affected.	English, Romanian
0703, 1303, 1903	<b>C</b>	Forecast valid for 24 hours for the area affected.	English, Romanian
0733, 1333, 1933	<b>B</b>	Forecast valid for 24 hours for the area affected.	English, Romanian

**Notes:**

A network of VHF radio stations remotely controlled by Constanta Radio and connected to MRCC Constanta is responsible for maintaining a continuous listening watch on international distress frequencies.

(1) After preliminary call on 500 kHz A2a.

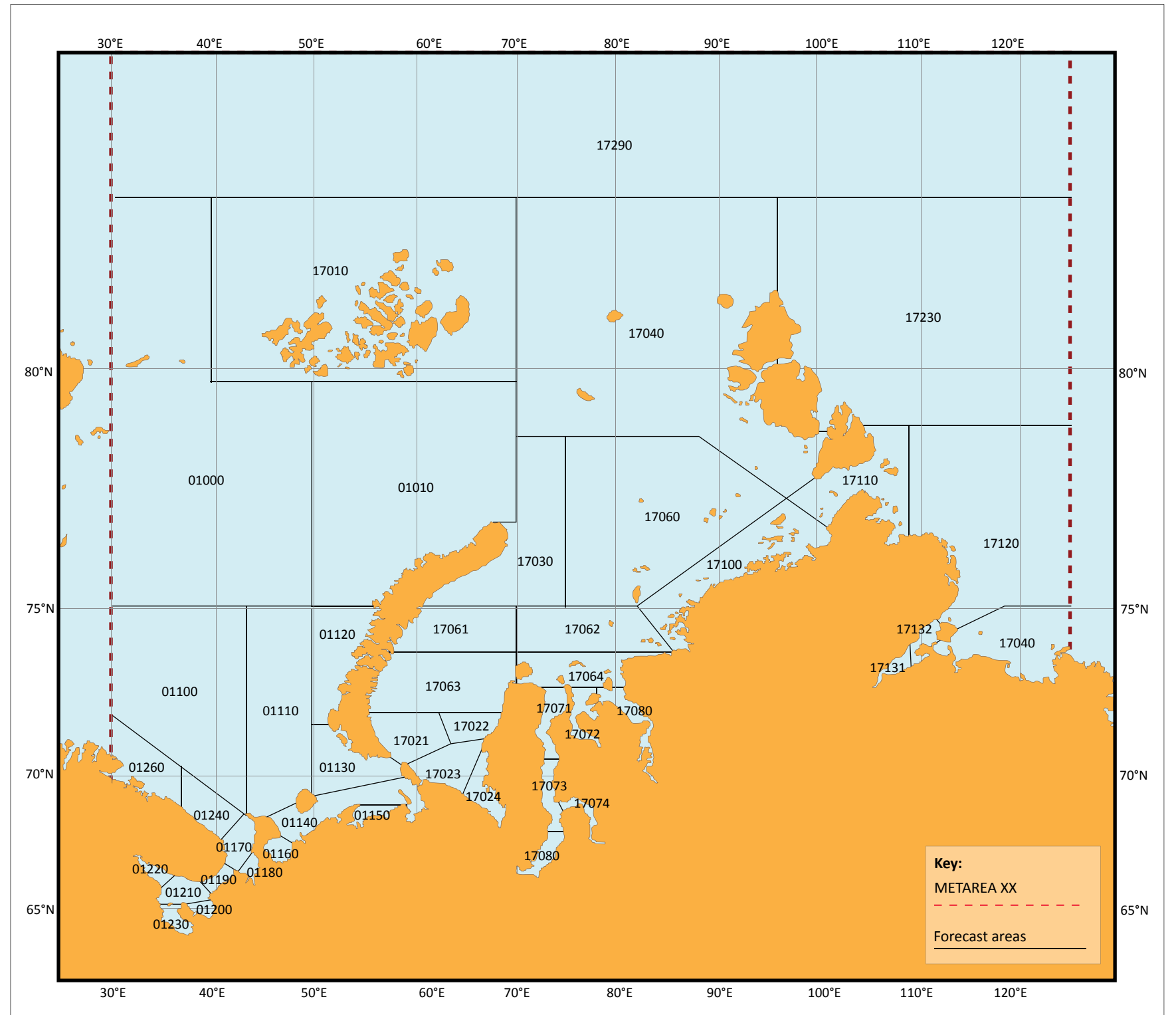
(2) After preliminary call on DSC 2187.5 kHz F1B.

(3) After preliminary call on DSC Ch 70 F1B.

# Russian Federation

Weather Forecast Areas

29 January 2015

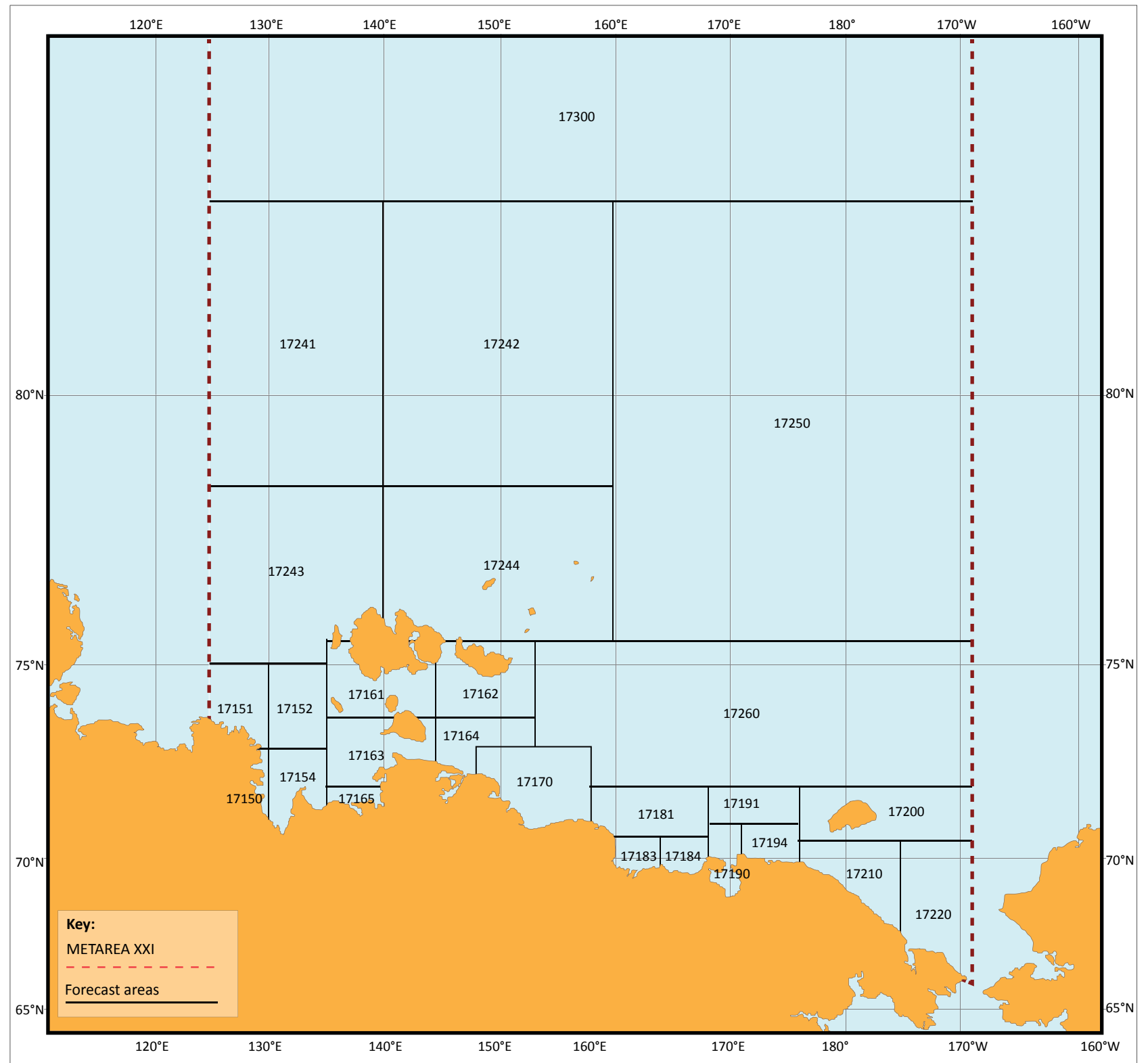


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# Russian Federation

Weather Forecast Areas

29 January 2015



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**RUSSIAN FEDERATION (EUROPE)****Arkhangel'sk****Position:** 64°32'00"N 040°32'00"E**Call Sign:** UCE**METAREA:** XX**Area Covered:** North Atlantic to Barents Sea - Arctic coast

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>B</b>	2 595 kHz		Arkhangel'sk Radio		

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0510, 0530, 1710, 1730	<b>B</b>	Navigational warnings: Coastal warnings for Belye More (White Sea).	Russian



**RUSSIAN FEDERATION (EUROPE)****Kaliningrad****Position:** 54°45'00"N 020°35'00"E**Call Sign:** UIW**METAREA:** I**Area Covered:** Baltic Coast

Watch hours on: 2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	4 390 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt	A	Navigational warnings: Coast warnings for Baltic Sea after announcement on 2 187.5 kHz and 2 182 kHz.	

**RUSSIAN FEDERATION (EUROPE)****Tiksi****Position:** 71°38'00"N 128°50'00"E**Call Sign:** --**METAREA:** XIII**Area Covered:** Pacific coast

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (HF)	A	4 351 kHz				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0900, 2300	A	Weather forecast for Reka Lena, Reka Yana and adjacent sea areas.	Russian

Broadcast given 1 hour earlier when DST is in force.

**RUSSIAN FEDERATION (IN ASIA)****Beringovskiy (Station broadcasts only during navigation season (15 May-1 December))****Position:** 63°02'59"N 179°18'36"E**Call Sign:** --**METAREA:** XIII**Area Covered:** West Pacific/Sea of Japan

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (MF)	<b>A</b>	2 525 kHz				
RT (MF)	<b>B</b>	3 730 kHz				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
Continuous broadcast	<b>A,B</b>	24 hour weather forecast for Port Beringovskiy and coastal waters out to 20 n miles from Anadyrskiy Liman to Bukhta Dezhneva.	Russian

**RUSSIAN FEDERATION (IN ASIA)****Magadan****Position:** 59°33'00"N 150°43'00"E**Call Sign:** UBY**METAREA:** XIII**Area Covered:** West Pacific/Sea of Japan

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
WT (HF)	<b>A</b>	12 713.5 kHz	UBY			
WT (HF)	<b>A</b>	6 365 kHz	UBY			
WT (HF)	<b>A</b>	4 243 kHz	UBY			
RT (MF)	<b>B</b>	2 400 kHz	Magadan Radio			

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0203, 1233	<b>B</b>	Synopsis, weather and wave forecast for 24 hours and 48 hour weather forecast for NE part of Okhotskoye More.	Russian
0300, 1400	<b>A</b>	Synopsis, weather and wave forecast for 24 hours and 48 hour weather forecast for NE part of Okhotskoye More.	Russian
1303	<b>B</b>	Navigational warnings: Coastal warnings fopr NE part of Okhotskoye More. Repeat of broadcast by Petropavlovsk-Kamchatskiy.	Russian
1600	<b>A</b>	Navigational warnings: Coastal warnings fopr NE part of Okhotskoye More. Repeat of broadcast by Petropavlovsk-Kamchatskiy.	Russian

**RUSSIAN FEDERATION (IN ASIA)****Okhotsk****Position:** 59°22'00"N 143°12'00"E**Call Sign:** --**METAREA:** XIII**Area Covered:** Pacific coast

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (MF)	A	2 560 kHz				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0000	A	Synopsis for W part of Okhotskoye More and coastal waters out to 20 n miles from Zaliv Ayan to Poluostrov Lisyanskiy.	Russian
0550, 1400, 2200	A	24-hour weather and wave forecast and weather forecast for the following 48 hours for W part of Okhotskoye More and coastal waters out to 20 n miles from Zaliv Ayan to Poluostrov Lisyanskiy.	Russian

**RUSSIAN FEDERATION (IN ASIA)****Vladivostok****Position:** 43°07'00"N 131°55'00"E**Call Sign:** UFL, UFZ**METAREA:** XIII**Area Covered:** West Pacific/Sea of Japan

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
WT (HF)	<b>A</b>	4 241 kHz				
WT (HF)	<b>B</b>	6 430 kHz				
WT (HF)	<b>C</b>	12 870 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0030	<b>A,C</b>	Navigational warnings.	Russian
0030, 2200	<b>A,C</b>	Navigational warnings.	Russian
0630, 2200	<b>A,C</b>	Storm warnings, synopsis, weather and wave forecast for 12 hours for Sea of Japan and Proliv Tsugaru.	Russian
1100, 2300	<b>A</b>	Navigational warnings and coastal warnings.	English
1100, 2300	<b>A</b>	Storm warnings and 24 hour weather forecast for Okhotskoye More, Bering Sea, Sea of Japan N of 42° and NW Pacific Ocean from Kuril'skiye Ostrova to 180E/W to N of 45°N. Storm warnings and 12 hour weather forecast for Russian coastal waters in the Sea of Japan. Navigational warnings.	English
1130	<b>A</b>	Synopsis, storm warnings, weather and wave forecast for 24-hours for Sea of Japan. Navigational warnings.	Russian
2300	<b>A</b>	Storm warnings and 24 hour weather forecast for Okhotskoye More, Bering Sea, Sea of Japan N of 42° and NW Pacific Ocean from Kuril'skiye Ostrova to 180E/W to N of 45°N. Storm warnings and 12 hour weather forecast for Russian coastal waters in the Sea of Japan.	English
2330	<b>A, B</b>	Navigational warnings and coastal warnings.	Russian
2330 (Sunday)	<b>A</b>	Navigational warnings.	Russian

**RUSSIAN FEDERATION (IN ASIA)****Yuzhno-Sakhalinsk****Position:** --**Call Sign:** UHO-2**METAREA:** XIII**Area Covered:** Pacific coast

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
WT (HF)	<b>A</b>	8 180 kHz				
WT (HF)	<b>B</b>	11 025 kHz				
RT (HF)	<b>C</b>	6 997 kHz				
RT (HF)	<b>C</b>	4 030 kHz				
RT (HF)	<b>D</b>	5 170 kHz				
RT (HF)	<b>D</b>	4 480 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0130	<b>A, B, D</b>	12 hour weather and wave forecast for W and SW parts of Okhotskoye More, Kuril'skiye Ostrova, Amurskiy Liman, Zaliv Aniva, Zaliv Sakhalinskiy, Zaliv Terpeniya, Proliv Laperuza and Proliv Tartarskiy (including coastal waters out to 20 n miles).	
0630	<b>A, B, D</b>	24 hour weather and wave forecst and weather forecast for the following 48 hours for W and SW parts of Okhotskoye More, Kuril'skiye Ostrova, Amurskiy Liman, Zaliv Sakhalinskiy, Zaliv Terpeniya, proliv Laperuza and Proliv Tartarskiy (including coastal waters out to 20 n miles).	
1900	<b>A, C</b>	12 hour weather and wave forecast for W and SW parts of Okhotskoye More, Kuril'skiye Ostrova, Amurskiy Liman, Zaliv Aniva, Zaliv Sakhalinskiy, Zaliv Terpeniya, Proliv Laperuza and Proliv Tartarskiy (including coastal waters out to 20 n miles).	

# SAUDI ARABIA

Weather Forecast Areas

- KEY:**
- 1. Red Sea, north of 20°N - AAA=RSN
  - 2. Red Sea, south of 20°N including the Straits of Bab Al Mandab - AAA=RSS
  - 3. Gulf of Aden and approaches - AAA=GAA
  - 4. Arabian Gulf North of 26.5°N - AAA=AGN
  - 5. Arabian Gulf South of 26.5°N including the Strait of Hormuz - AAA=AGS
  - 6. Gulf of Oman and approaches - AAA=GOA



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**SAUDI ARABIA****Jeddah****Position:** 21°14'00"N 039°09'00"E**Call Sign:** HZH**METAREA:** IX**Area Covered:** Red Sea Coast, Gulf of Aden (see map)

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	1 726 kHz				
VHF	<b>B</b>	Ch 25				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0333, 0733, 1133, 1533, 1933, 2333		Navigational warnings: For the Red Sea coastal waters of Saudi Arabia.	
0533, 1133, 1733, 2333		Gale warnings, synopsis, 24 hour forecast for areas RSN, RSS, GAA and approaches.	FM 61-IV MAFOR
On request		Gale warnings, synopsis, 24 hour forecast for areas RSN, RSS, GAA and approaches. Navigational warnings: For the Red Sea coastal waters of Saudi Arabia.	FM 61-IV MAFOR

**SEYCHELLES****Seychelles****Position:** 04°36'57"S 055°26'23"E**Call Sign:** S7Q**METAREA:** VIII(S)**Area Covered:**

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (HF)	A	8 770 kHz				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0518, 1548	A	For Area within 200 n miles of Seychelles.	English

**SOUTH AFRICA****Cape Town****Position:** 33°40'57"S 018°43'05"E**Call Sign:** ZSC**METAREA:** VII**Area Covered:** South Atlantic - The whole ocean area south of the Equator and of the African coast between 20°W and 20°E. The Mozambique Channel south of 15°S and the sea area from 25°S to 30°S between the African coast and 45°E. The whole ocean area south of 30°S and of the African coast between 20°E and 70°E.

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	<b>A</b>	8 740 kHz				
RT (HF)	<b>A</b>	13 146 kHz				
RT (HF)	<b>A</b>	4 375 kHz				
VHF	<b>B</b>	Ch 24		Kareedouw	34°02'S 24°26'E	
VHF	<b>B</b>	Ch 86		Albertinia	34°12'S 21°42'E	
VHF	<b>B</b>	Ch 04		Alexander Bay	28°40'S 16°30'E	
VHF	<b>B</b>	Ch 26		Bluff (Durban)	29°48'S 30°48'E	
VHF	<b>B</b>	Ch 25 27		Botha's Hill	33°59'S 25°16'E	
VHF	<b>B</b>	Ch 25		Cape S. Lucia	28°30'S 32°24'E	
VHF	<b>B</b>	Ch 26		Constantiaberg	34°03'S 18°23'E	
VHF	<b>B</b>	Ch 03		Doringbaai	31°49'S 18°13'E	
VHF	<b>B</b>	Ch 26		East London	33°00'S 27°55'E	
VHF	<b>B</b>	Ch 23		Elandsbaai	32°19'S 18°19'E	
VHF	<b>B</b>	Ch 83		Governorskop	33°17'S 26°42'E	
VHF	<b>B</b>	Ch 25		Hondeklipbaai	30°30'S 17°25'E	
VHF	<b>B</b>	Ch 84		Struisbaai	34°50'S 20°00'E	
VHF	<b>B</b>	Ch 23		Knysna	34°04'N 23°10'E	
VHF	<b>B</b>	Ch 01		Kosi Bay	26°59'S 32°45'E	
VHF	<b>B</b>	Ch 28		Mazeppa Bay	32°26'S 28°28'E	
VHF	<b>B</b>	Ch 25		Milnerton	33°52'S 18°20'E	
VHF	<b>B</b>	Ch 85		Pearly Beach	34°40'S 19°30'E	
VHF	<b>B</b>	Ch 27		Port Edward	31°03'S 30°13'E	
VHF	<b>B</b>	Ch 01		Port Nolloth	29°17'S 16°53'E	
VHF	<b>B</b>	Ch 24		Port S. Johns	31°38'S 29°33'E	
VHF	<b>B</b>	Ch 26		Port Shepstone	30°44'S 30°27'E	
VHF	<b>B</b>	Ch 28		Richards Bay	28°47'S 32°06'E	
VHF	<b>B</b>	Ch 27		Saldanha Bay	33°02'S 17°55'E	
VHF	<b>B</b>	Ch 03		Sodwana	27°29'S 32°36'E	
VHF	<b>B</b>	Ch 04		Hermanus	34°25'S 19°13'E	

**SOUTH AFRICA**

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
1015, 1815	<b>A-B</b>	Storm, Gale and cyclone warnings, synopsis and forecast for areas 3-5, 11, 12, 14 and 15.	
1333	<b>A-B</b>	Coastal weather reports comprising 1200 UTC observations from various stations combined and presented as one broadcast.	
On receipt 1015, 1815 (after weather bulletin)	<b>A-B</b>	Navigational warnings: NAVAREA VII and coastal warnings in force.	
On receipt on Ch 16 & 2182 kHz	<b>A-B</b>	Storm warnings.	
On request	<b>A-B</b>	High seas weather forecast.	

**NOTE:**

VHF broadcasts are announced simultaneously through VHF Ch 16 before being broadcast through the allocated remote transmitter site(s).

**SPAIN****Algeciras (MRSC)****Position:** 36°07'28"N 005°26'23"W**Call Sign:** --**METAREA:** II**Area Covered:** Mediterranean Coast.

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 74				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0315, 0515, 0715, 1115, 1515, 1915, 2315	A	Weather bulletins.	Spanish, English
On request	A		Spanish, English

**SPAIN****Almería (MRCC)****Position:** --**Call Sign:** --**METAREA:** III**Area Covered:** Mediterranean Coast

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	<b>A</b>	Ch 74			36°50'N 2°29'W	
VHF	<b>B</b>	Ch 74			36°43'N 2°12'W	

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
Every odd H+15	<b>A</b>		Spanish, English
Every odd H+15	<b>A, B</b>	Gale warnings, synopsis and forecast for coasta of Murcia, Almeria, Granada, Melilla and Isla de Alborán.	Spanish, English
Every odd H+15	<b>A</b>	Gale warnings, synopsis and forecast for areas Alborán and Palos.	Spanish, English

**SPAIN****Barcelona (MRCC)****Position:** 41°25'06"N 002°06'55"E**Call Sign:** --**METAREA:** III**Area Covered:** Mediterranean Coast

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 10				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0500, 0900, 1400, 1900 (summer) 0600, 1000, 1500, 2000, (winter)	A	Weather bulletins.	Spanish, English

**SPAIN****Bilbao (CCR)****Position:** 43°22'21"N 002°45'45"W**Call Sign:** --**METAREA:** II**Area Covered:** Atlantic Coast

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	1 707 kHz		Machichaco	43°27'N 2°45'W	
RT (MF)	<b>A</b>	1 677 kHz		Cabo Peñas	43°39'N 5°51'W	
VHF	<b>B</b>	Ch 24		Santander	43°25'N 3°36'W	
VHF	<b>B</b>	Ch 27		Pasajes	43°17'N 1°55'W	
VHF	<b>B</b>	Ch 60		Navia	43°25'N 6°50'W	
VHF	<b>B</b>	Ch 26		Bilbao	43°22'N 3°02'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0703, 1903	<b>A</b>	Storm warnings, synopsis and 24 hour forecast for Atlantic areas. Navigational warnings: After weather bulletin: For area from French/Spanish border to 6°W.	Spanish
0840, 2010	<b>B</b>	Weather warnings for coastal areas. Navigational warnings: After weather bulletin: Coastal warnings.	Spanish
1240	<b>B</b>	48 hours forecast for coastal areas.	Spanish
1303	<b>A</b>	Storm warnings, synopsis and 48 hour forecast for Atlantic areas.	Spanish



**SPAIN****Bilbao (MRCC)****Position:** 43°22'21"N 002°45'45"W**Call Sign:** --**METAREA:** II**Area Covered:** Atlantic Coast

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 10				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0033, 0433, 0833, 1233, 1633, 2033	A	Coastal waters: gale warnings and forecast.	Spanish, English
0233, 0633, 1033, 1433, 1833, 2233	A	High seas: gale warnings and forecast.	Spanish, English
On receipt	A	Navigational warnings: provisional broadcast an official warning will be broadcast by Coast Radio Stations.	Spanish, English
On receipt Every even H+33	A	Storm warnings.	

**SPAIN****Cádiz (MRSC)****Position:** 36°21'24"N 006°17'07"W**Call Sign:** EAC**METAREA:** II**Area Covered:** Atlantic Coast

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 74				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0315, 0715, 1115, 1515, 1915, 2315	A	Weather bulletins.	Spanish, English
On receipt	A	Weather bulletins. Navigational warnings: Provisional broadcast an official warning will be broadcast by Coast Radio Stations.	Spanish, English

**SPAIN****Cartagena (MRSC)****Position:** 37°29'25"N 001°33'48"W**Call Sign:** --**METAREA:** III**Area Covered:** Mediterranean Coast

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 10				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0115, 0515, 0915, 1315, 1715, 2115	A	Weather bulletins.	Spanish, English
On receipt	A	Navigational warnings: Provisional broadcast , an official warning will be broadcast by Coast Radio Stations.	Spanish, English

**SPAIN****Castellón (MRSC)****Position:** 40°05'12"N 000°01'58"E**Call Sign:** --**METAREA:** III**Area Covered:** Mediterranean Coast

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 74				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0900, 1400, 1900	A	Weather bulletins.	Spanish, English
On receipt	A	Navigational warnings: Provisional broadcast , an official warning will be broadcast by Coast Radio Stations.	Spanish, English

**SPAIN****Coruña (CCR)****Position:** 43°22'07"N 008°23'10"W**Call Sign:** --**METAREA:** II**Area Covered:** North Atlantic to Barents Sea

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	1 764 kHz		Finisterre	42°54'N 9°16'W	
RT (MF)	<b>A</b>	1 698 kHz		Coruña	43°22'N 8°27'W	
VHF	<b>B</b>	Ch 65		Vigo	42°10'N 08°41'W	
VHF	<b>B</b>	Ch 21		La Guardia	41°53'N 8°52'W	
VHF	<b>B</b>	Ch 22		Finisterre	42°54'N 9°16'W	
VHF	<b>B</b>	Ch 26		Coruña	43°22'N 8°27'W	
VHF	<b>B</b>	Ch 02		Cabo Ortegal	43°35'N 7°47'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0005, 0405, 0805, 1205, 1605, 2005	<b>A</b>	Navigational warnings: Provisional broadcast, an official warning will be broadcast by Coast Radio Stations.	Spanish, English
0703, 1903	<b>A</b>	Storm warnings, synopsis and 24 hour forecast for Atlantic areas. Navigational warnings: After weather bulletin: General warnings.	Spanish
0840, 2010	<b>B</b>	Weather warnings for coastal areas. Navigational warnings: After weather bulletin: Coastal warnings.	Spanish
1240	<b>B</b>	48 hours forecast for coastal areas.	Spanish
1303	<b>A</b>	Storm warnings, synopsis and 48 hour forecast for Atlantic areas.	Spanish

**SPAIN****Coruña (MRSC)****Position:** 43°27'10"N 008°17'00"W**Call Sign:** EAR**METAREA:** II**Area Covered:** North Atlantic to Barents Sea

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 10				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0005, 0405, 0805, 1205, 1605, 2005	A	Navigational warnings: Provisional broadcast , an official warning will be broadcast by Coast Radio Stations.	Spanish, English

**SPAIN****Finisterre (MRCC)****Position:** 43°04'38"N 009°13'31"W**Call Sign:** --**METAREA:** II**Area Covered:** Atlantic Coast

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 11				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
H+33 every 4 hours commencing 0033	A	Navigational warnings: Provisional broadcast , an official warning will be broadcast by Coast Radio Stations.	Spanish, English
H+33 every 4 hours commencing 0233	A	Weather bulletins.	Spanish, English

**SPAIN****Gijón (MRCC)****Position:** 43°33'36"N 005°41'53"W**Call Sign:** --**METAREA:** II**Area Covered:** Mediterranean Sea/Black Sea

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 10				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
Every even H+15 (0215-2215)	A	Weather bulletins.	Spanish, English
Every H+15	A	avigational warnings: Provisional broadcast , an official warning will be broadcast by Coast Radio Stations.	Spanish, English



**SPAIN****Huelva (MRSC)****Position:** 37°13'20"N 007°06'43"W**Call Sign:** --**METAREA:** III**Area Covered:** Mediterranean Sea/Black Sea

Watch hours on: Ch70 (VHF)/2187.5 kHz (Tx) (MF)

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 10				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0415, 0815, 1215, 1615, 2015	A	Weather bulletins.	Spanish, English
On receipt	A	Navigational warnings: Provisional broadcast , an official warning will be broadcast by Coast Radio Stations.	Spanish, English

**SPAIN****Málaga (CCR)****Position:** 36°36'15"N 004°35'44"W**Call Sign:** --**METAREA:** III**Area Covered:** Mediterranean Coast

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	1 704 kHz		Tarifa	36°03'N 5°33'W	
RT (MF)	<b>A</b>	1 656 kHz		Chipiona	36°41'N 6°25'W	
VHF	<b>B</b>	Ch 81		Tarifa	36°03'N 5°33'W	
VHF	<b>B</b>	Ch 26		Malaga	36°36'N 4°36'W	
VHF	<b>B</b>	Ch 26		Cádiz	36°21'N 6°17'W	
VHF	<b>B</b>	Ch 27		Cabo Gata	36°43'N 2°12'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0733, 1933	<b>A</b>	Storm warnings, synopsis and 24 hour forecast for Mediterranean and Atlantic areas. Navigational warnings: After weather bulletin - general warnings.	
0833, 2003	<b>B</b>	Weather warnings for coastal areas. Navigational warnings: After weather bulletin - general warnings.	Spanish
1133	<b>B</b>	48 hours forecast for coastal areas.	Spanish
1233	<b>A</b>	Storm warnings, synopsis and 48 hour forecast for Mediterranean and Atlantic areas.	Spanish

**SPAIN****Palma (MRCC)****Position:** 39°44'16"N 002°43'05"E**Call Sign:** EAO**METAREA:** III**Area Covered:** Mediterranean Coast

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 10				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0635, 0935, 1435, 1935 (summer) 0735, 1035, 1535, 2035 (winter)	A	Weather bulletins.	Spanish, English
On receipt	A	Navigational warnings: Provisional broadcast , an official warning will be broadcast by Coast Radio Stations.	Spanish, English

**SPAIN****Santander (MRSC)****Position:** 43°17'28"N 004°08'38"W**Call Sign:** --**METAREA:** II**Area Covered:** Mediterranean Sea/Black Sea

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 74				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0045, 0045, 0845, 1245, 1645, 2045	A	Navigational warnings: Provisional broadcast , an official warning will be broadcast by Coast Radio Stations.	Spanish, English
0245, 0645, 1045, 1445, 1845, 2245	A	Weather bulletins.	Spanish, English

**SPAIN****Tarifa (MRCC)****Position:** 36°03'30"N 005°33'00"W**Call Sign:** --**METAREA:** II, III**Area Covered:** West Mediterranean and North Atlantic within 450 miles from coast (see map)

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 10 67				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
Every even H+15	A	Actual wind and visibility at Tarifa, followed by forecast for Strait of Gibraltar, Cádiz Bay and Alborán. Navigational warnings: Fog (visibility) warnings: broadcasts area more frequent when visibility falls below 2 n miles.	Spanish, English
On receipt	A	Navigational warnings: For the Strait of Gibraltar between the meridians of Cabo Espartell Lt (35°47'N 5°56'W) and Punta Almina Lt (35°54'N 5°17'W).	Spanish, English

**SPAIN****Tarragona (MRSC)****Position:** 41°15'00"N 001°03'27"E**Call Sign:** --**METAREA:** III**Area Covered:** Mediterranean Coast

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 74				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0430, 0830, 1430, 1930 (summer) 0530, 0930, 1530, 2030 (winter)	A	Weather bulletins.	Spanish, English

**SPAIN****Valencia (CCR)****Position:** 39°25'48"N 000°28'36"W**Call Sign:** --**METAREA:** III**Area Covered:** Mediterranean Coast

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	1 767 kHz		Cabo Gata	36°43'N 2°12'W	
RT (MF)	<b>A</b>	1 755 kHz		Palma	39°21'N 2°58'E	
VHF	<b>B</b>	Ch 23		Tarragona	41°21'N 1°32'E	
VHF	<b>B</b>	Ch 20		Palma	39°44'N 2°43'E	
VHF	<b>B</b>	Ch 85		Menorca	39°59'N 4°07'E	
VHF	<b>B</b>	Ch 03		Ibiza	38°55'N 1°01'E	
VHF	<b>B</b>	Ch 25		Castellon	39°52'N 0°19'W	
VHF	<b>B</b>	Ch 04		Cartagena	37°35'N 0°58'W	
VHF	<b>B</b>	Ch 01		Cabo de la Nao	38°43'N 0°10'W	
VHF	<b>B</b>	Ch 60		Barcelona	41°25'N 2°07'E	
VHF	<b>B</b>	Ch 23		Bagur	42°17'N 3°15'E	
VHF	<b>B</b>	Ch 23		Bagur	42°17'N 3°15'E	
VHF	<b>B</b>	Ch 85		Alicante	38°20'N 0°42'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0750, 1950	<b>A</b>	Storm warnings, synopsis and 24 hour forecast for Mediterranean areas. Navigational warnings: After weather bulletin - general warnings.	Spanish
0910, 2110	<b>B</b>	Weather warnings for coastal areas. Navigational warnings: After weather bulletin - coastal warnings.	Spanish
1303	<b>A</b>	Storm warnings, synopsis and 48 hour forecast for Mediterranean areas.	Spanish
1410	<b>B</b>	48 hours forecast for coastal areas.	Spanish

**SPAIN****Vigo (MRSC)****Position:** 42°19'02"N 008°42'10"W**Call Sign:** --**METAREA:** II**Area Covered:** Mediterranean Sea/Black Sea

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 10				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0015, 0415, 0815, 1215, 1615, 2015	A	Weather bulletins.	Spanish, English
0215, 0615, 1015, 1415, 1815, 2215	A	Navigational warnings: Provisional broadcast , an official warning will be broadcast by Coast Radio Stations.	Spanish, English



**SPAIN (CANARY ISLANDS)****Las Palmas (CCR GROUP V)****Position:** 28°09'26"N 015°24'51"W**Call Sign:** EAL**METAREA:** II**Area Covered:** North Atlantic waters from 50°N to 20°N east of 35°W. Mediterranean sea west of 10°E overlapping with the area of responsibility of France.

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	1 644 kHz		Arrecife	22°09'N 13°31'W	
RT (MF)	<b>B</b>	1 689 kHz		Las Palmas	28°06'N 15°28'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0803, 1233, 1903	<b>A,B</b>	Storm warnings, synopsis and 24 hour forecast for Atlantic areas.	
0803, 1903 after weather bulletin	<b>A,B</b>		

**SPAIN (CANARY ISLANDS)****Tenerife (CCR)****Position:** 28°18'24"N 016°30'16"W**Call Sign:** EAT**METAREA:** II**Area Covered:** North Atlantic waters from 50°N to 20°N east of 35°W. Mediterranean sea west of 10°E overlapping with the area of responsibility of France.

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	<b>A</b>	Ch 27		Tenerife	28°27'N 16°22'W	
VHF	<b>A</b>	Ch 26		Las Plamas	27°58'N 15°33'W	
VHF	<b>A</b>	Ch 20		La Palma	28°39'N 17°49'W	
VHF	<b>A</b>	Ch 23		Hierro	27°48'N 17°55'W	
VHF	<b>A</b>	Ch 24		Gomera	28°06'N 17°06'W	
VHF	<b>A</b>	Ch 22		Fuerteventura	28°33'N 13°55'W	
VHF	<b>A</b>	Ch 25		Arrecife	29°08'N 13°31'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0833, 2033	<b>A</b>	Forecast for coastal areas.	Spanish
0833, 2033 after weather bulletin	<b>A</b>	Navigational warnings: Coastal warnings.	Spanish
1333	<b>A</b>	48 hours forecast for coastal areas.	Spanish

**SPAIN (CANARY ISLANDS)****Tenerife (MRCC)****Position:** 28°18'24"N 016°30'16"W**Call Sign:** --**METAREA:** II**Area Covered:** North Atlantic waters from 50°N to 20°N east of 35°W. Mediterranean sea west of 10°E overlapping with the area of responsibility of France.

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 74				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt 0015, 0415, 0815, 1215, 1615, 2015	A	Storm warnings for the Anaga-Agaete channel and the coasts of La Palma, El Hierro, La Gomera and Tenerife.	Spanish, English
On receipt 0215, 0615, 1015, 1415, 1815, 2215	A		Spanish, English

**SRI LANKA****Colombo****Position:** 06°55'00"N 079°53'00"E**Call Sign:** 4PB**METAREA:** VIII(N)**Area Covered:** Sea areas from 10°N to the Equator between 60°E and 95°E.

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
WT (MF)	<b>A</b>	482 kHz				
WT (HF)	<b>B</b>	8 473 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0530, 1330	<b>A, B</b>	Gale warnings, synopsis, forecast for Areas E00-E95.	
0600, 1300	<b>A, B</b>	Forecast, for Sri Lanka and vicinity.	English
On receipt 0600, 0900, 1330 On request	<b>A, B</b>	Navigational warnings: For area within 200 n miles of Colombo.	English

**SURINAME****Paramaribo****Position:** 05°51'00"N 055°09'00"W**Call Sign:** PZN**METAREA:** V**Area Covered:** Area between 5°N and 15°N, 45°W and 60°W

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 818 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1233, 2133 On request	A	Storm warnings, synopsis, forecast for Atlantic Ocean 5°N-15°N, 45°W-60°W.	English

# SWEDEN

Coast Radio Stations

25 July 2018



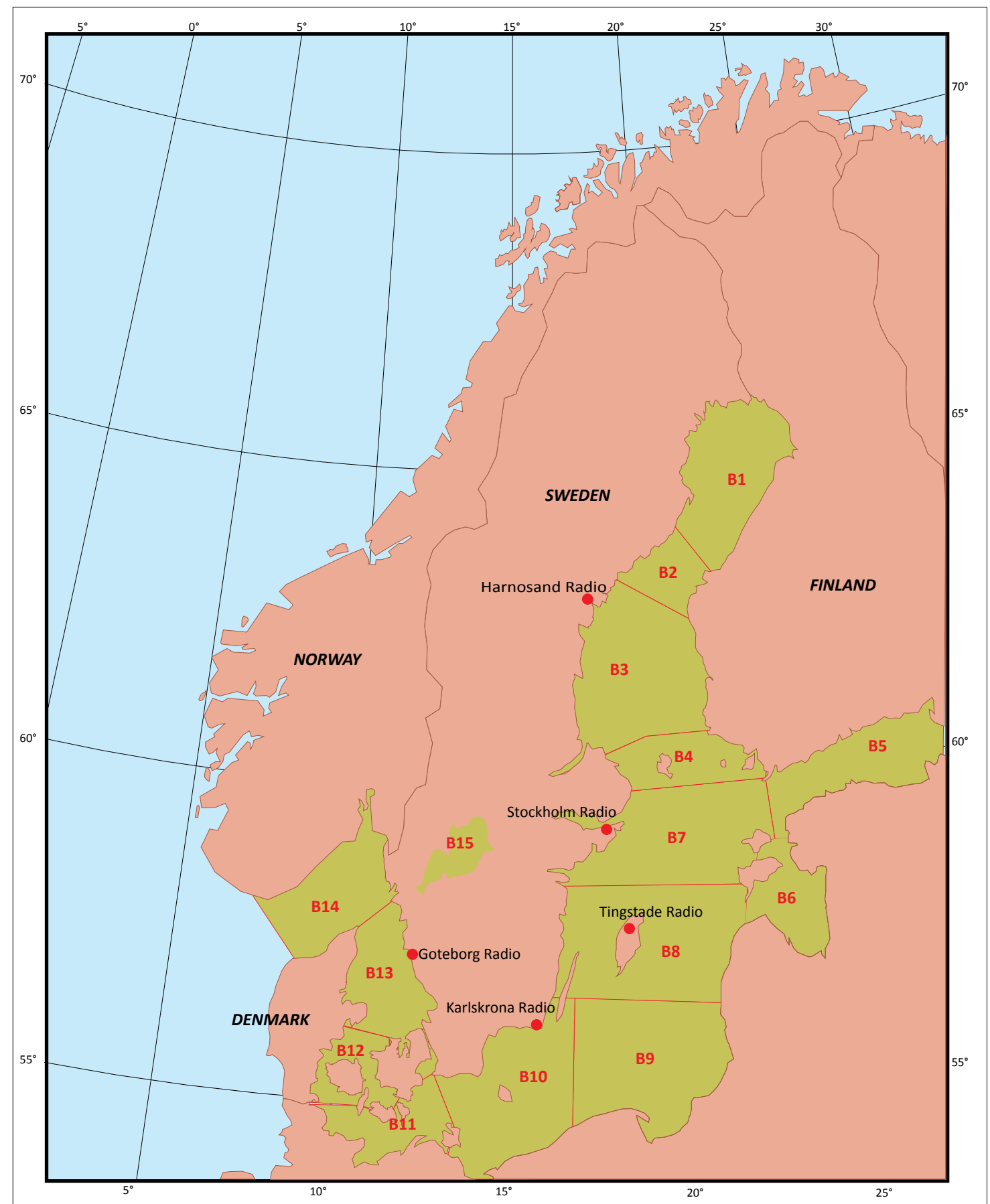
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# SWEDEN

Baltic Sea Forecast Areas

## KEY:

- B1 Bay of Bothnia
- B2 The Quark
- B3 Sea of Bothnia
- B4 Sea of Aaland and Archipelago
- B5 Gulf of Finland
- B6 Gulf of Riga
- B7 Northern Baltic
- B8 Central Baltic
- B9 Southeastern Baltic
- B10 Southern Baltic
- B11 Western Baltic
- B12 The Sound and the Belts
- B13 Kattegat
- B14 Skagerrak
- B15 Lake Vaenern



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**SWEDEN****MSI Sweden/Stockholm Radio****Position:** 59°17'00"N 018°43'00"E**Call Sign:** --**METAREA:** I**Area Covered:** Skagerrak, Kattegat, the Sound and the Belts, Baltic, Sea of Aland and Archipelago Sea, Gulf of Bothnia (see map)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	<b>B</b>	Ch 11, 16, 26, 74,		Umeå		
VHF	<b>B</b>	Ch 13, 16, 25, DSC,		Hudiksvall		
VHF	<b>B</b>	Ch 13, 16, 24, 74,		Sundsvall		
VHF	<b>B</b>	Ch 16, 23, DSC		Härnösand		
VHF	<b>B</b>	Ch 13, 84		Kramfors		
VHF	<b>B</b>	Ch 16, 28		Örnsköldsvik		
VHF	<b>B</b>	Ch 13, 16, 23, DSC,		Gavle		
VHF	<b>B</b>	Ch 11, 16, 23, 74,		Skellefteå		
VHF	<b>B</b>	Ch 11, 16, 25, DSC,		Kalix		
VHF	<b>B</b>	Ch 11, 14, 16, 24,		Luleå		
VHF	<b>B</b>	Ch 11, 16, 64, DSC,		Mjällom		
VHF	<b>C</b>	Ch 11, 16, 66, 68,		Södertälje		
VHF	<b>C</b>	Ch 13, 16, 23, 26,		Nacka		
VHF	<b>C</b>	Ch 11, 16, 24, 68,		Torö		
VHF	<b>C</b>	Ch 16, 65, 67, DCS,		Gotska Sandön		
VHF	<b>C</b>	Ch 16, 84, DSC, AI		Svenska Högarna		
VHF	<b>C</b>	Ch 13, 16, 73, 74,		Väddö		
VHF	<b>C</b>	Ch 16		Bålsta		
VHF	<b>C</b>	Ch 16, AIS		Kaknäs		
VHF	<b>C</b>	Ch 16, 24, 73, DSC,		Östhammar		
VHF	<b>C</b>	Ch 11, 16, 25, 68,		Västerås		
VHF	<b>D</b>	Ch 13, 16, 67, 78,		Olands Sodra Udde		
VHF	<b>D</b>	Ch 13, 16, 26, 67,		Kalmar		
VHF	<b>D</b>	Ch 16, 67		Tofta		
VHF	<b>D</b>	Ch 9, 10, 16, 64, 6		Norrköping		
VHF	<b>D</b>	Ch 16, 28, 67, DSC		Fårö		
VHF	<b>D</b>	Ch 10, 16, 25, DSC,		Visby		
VHF	<b>D</b>	Ch 16, 24, 67, DSC,		Hoburgen		
VHF	<b>E</b>	Ch 16, 20, 67, AIS		Trelleborg		
VHF	<b>E</b>	Ch 13, 16, 23, 67,		Vastervik		
VHF	<b>E</b>	Ch 16, 18, 25, 67,		Karlshamn		
VHF	<b>E</b>	Ch 16, 21, 67, DSC,		Kivik		
VHF	<b>E</b>	Ch 16, 79, DSC		Hörby		
VHF	<b>E</b>	Ch 11		Falsterbo		
VHF	<b>E</b>	AIS		Öresundsbron		



**SWEDEN**

VHF	<b>E</b>	Ch 4, 67	Malmö (Öresundshuset)
VHF	<b>E</b>	Ch 16, 27, 68, 71	Malmö (Jägersro)
VHF	<b>E</b>	Ch 16, 24, 67, 73,	Helsingborg
VHF	<b>E</b>	Ch 13, 16, 81, DSC,	Karlskrona
VHF	<b>F</b>	Ch 09, 16, 25, DSC,	Trollhättan
VHF	<b>F</b>	Ch 16, 19, 22, DSC,	Grimeton
VHF	<b>F</b>	Ch 16, 23, DSC, AI	Jönköping
VHF	<b>F</b>	Ch 16, 26, DSC, AI	Motala
VHF	<b>F</b>	Ch 16, 18, 62, 67,	Halmstad
VHF	<b>F</b>	Ch 14, 16, 78, DSC,	Bäckefors
VHF	<b>F</b>	Ch 11	Älvsborgsbron
VHF	<b>F</b>	Ch 10, 16, 67, 84,	Uddevalla
VHF	<b>F</b>	Ch 10, 16, 23, 67,	Kungshamn
VHF	<b>F</b>	Ch 01, 16	Kinneku
VHF	<b>F</b>	Ch 16, 22, 67, DSC,	Strömstad
VHF	<b>F</b>	Ch 16, 26	Grebbestad
VHF	<b>F</b>	Ch 10, 16, 67, 81	Tjorn
VHF	<b>F</b>	Ch 09, 13, 16, 24,	Göteborg
VHF	<b>F</b>	Ch 14, 16, 65, DSC,	Karlstad

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0830, 1630,2130	<b>B</b>	Coastal weather	Swedish
0845, 1645, 2145	<b>C</b>	Coastal weather	Swedish
0900, 1700, 2200	<b>D</b>	Coastal weather	Swedish
0915, 1715, 2215	<b>E</b>	Coastal weather	Swedish
0930, 1730, 2230	<b>F</b>	Coastal weather	Swedish

NOTE: Broadcast by Stockholm Radio on VHF during period 1 May to 30 September.

**SYRIAN ARAB REPUBLIC****Al Ladhiqiyah (Latakia)****Position:** 35°32'05"N 035°46'00"E**Call Sign:** --**METAREA:** III**Area Covered:**

Watch hours on: Ch70 (VHF)

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (MF)	<b>A</b>	3 624 kHz				
VHF	<b>B</b>	Ch 13				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0400, 0800, 1200, 1600, 2000, 2400	<b>A, B</b>		

**SYRIAN ARAB REPUBLIC****Tartus (Tartous)****Position:** 34°54'05"N 035°51'05"E**Call Sign:** --**METAREA:** III**Area Covered:**

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (MF)	<b>A</b>	2 662 kHz				
VHF	<b>B</b>	Ch 20				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0400, 0800, 1200, 1600	<b>A, B</b>		

# THAILAND

Forecast Areas

**KEY:**

**Division of forecasting areas:**

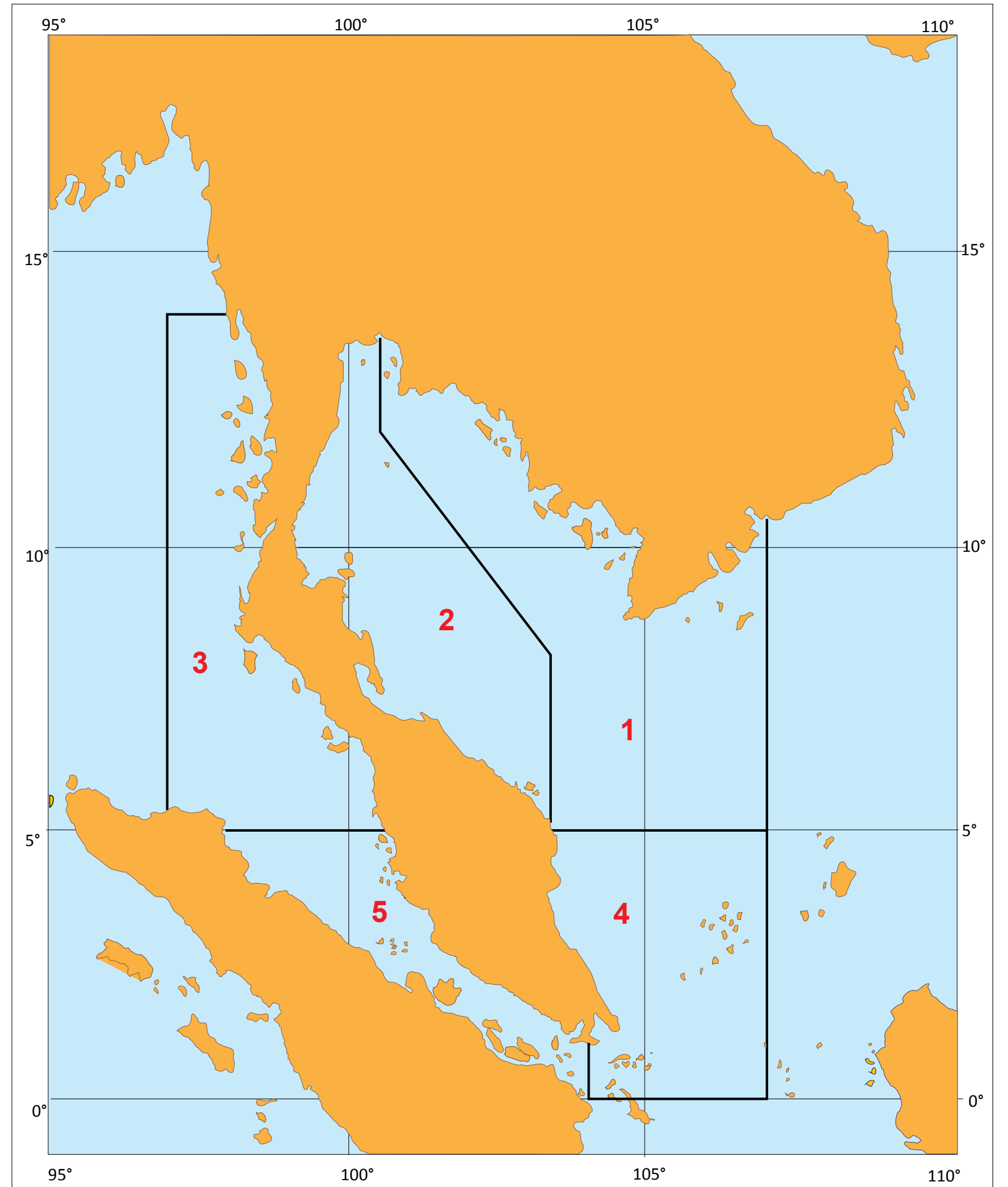
Area 1: Gulf of Thailand East coast to latitude 5°N and longitude 107°E.

Area 2: Gulf of Thailand West coast to latitude 5°N.

Area 3: West coast of Southern Myanmar below latitude 14°N and West coast of Southern Thailand to latitude 5°N.

Area 4: East coast of the Malay Peninsula from latitude 5°N to the Equator.

Area 5: The Strait of Malacca.



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**THAILAND****Bangkok (Nonthaburi) Meteorological****Position:** 13°11'39"N 100°57'01"E**Call Sign:** HSA**METAREA:** XI**Area Covered:** West Pacific Sea of Japan.  
Gulf of Thailand, West coast of southern Thailand, Strait of Malacca and South China Sea (see map)

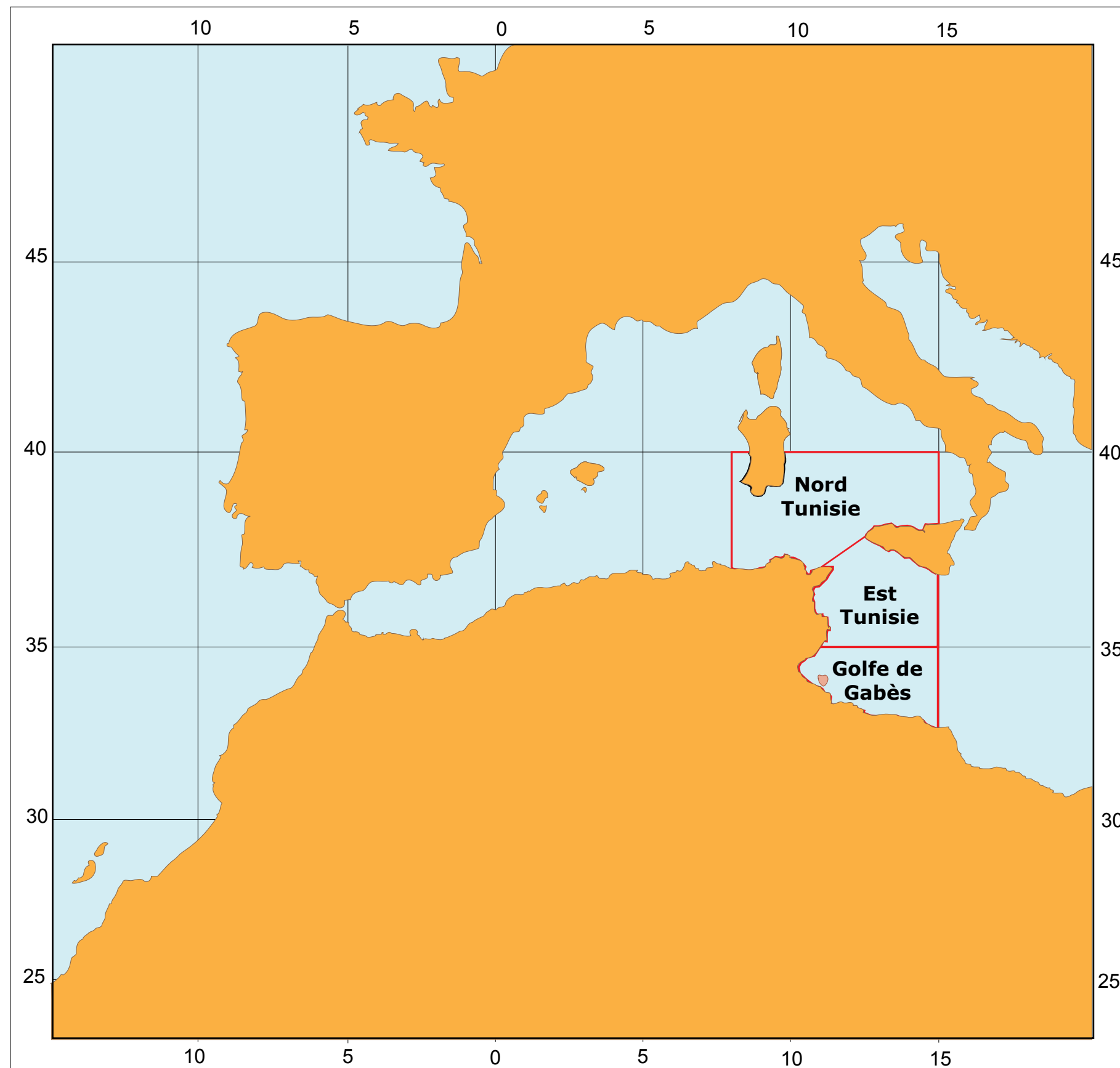
Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	<b>A</b>	6 765.1 kHz				
RT (HF)	<b>B</b>	8 743 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0000, 0300, 0600, 0900, 1200, 1500, 1800, 2100	<b>A-B</b>	Storm warnings for the Area 4°N-20°N, 98°E-115°E. Synopsis for the Areas 0°-30°N, 90°E-120°E. 24 hour forecast for Areas 1-5.	Thai, English

# TUNISIA

Coastal Shipping and Fishing Areas



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**TUNISIA****Tunis****Position:** 36°54'00"N 10°11'00"E**Call Sign:** 3VT**METAREA:** III**Area Covered:** Coasts of Tunisia and central Mediterranean between 8°E and the south of Sardinia, 40°N and 15°E to the coasts of Tripolitania and Tunisia (Groupe II AFN)

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	1 820 kHz				
RT (MF)	<b>B</b>	2 670 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0805, 1705	<b>A, B</b>	Weather summary, 12 hour forecast and outlook for further 12 hours for the coastal waters of Tunisia.	French
On receipt & 0803, 1203, 2003 On request	<b>A, B</b>	Navigational warnings for Tunisian coast, Western Mediterranean south of 40°N, east of a line from Tunisian-Algerian frontier to C. Spartivento.	French

**TURKEY**

Weather Forecast Areas (FLEET Forecast Areas)





**TURKEY****Antalya****Position:** 36°09'10"N 032°26'43"E**Call Sign:** --**METAREA:** III**Area Covered:** Western and Eastern Mediterranean Coasts (30 miles distance)

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	<b>A</b>	Ch 67 (1)		Antalya Control Centre	36°53'N 30°42'E	
VHF	<b>B</b>	Ch 67 (1)		Yumrutepe R/L	36°15'N 29°27'E	
VHF	<b>B</b>	Ch 67 (1)		Palamut R/L	36°45'N 28°13'E	
VHF	<b>B</b>	Ch 67 (1)		Markiz R/L	36°43'N 30°29'E	
VHF	<b>B</b>	Ch 67 (1)		Kazakin R/L	36°50'N 29°06'E	
VHF	<b>B</b>	Ch 67 (1)		Dilektepe TV	37°32'N 27°16'E	
VHF	<b>B</b>	Ch 67 (1)		Cobandede R/L	36°31'N 36°15'E	
VHF	<b>B</b>	Ch 67 (1)		Anamur R/L	36°05'N 32°50'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0700, 1900	<b>A</b>	Forecast for Black Sea, Marmara Denizi, Aegean Sea and Mediterranean Sea.	Turkish, English
0730, 0900, 0930, 1130, 1330, 1530, 1730, 1930	<b>A</b>	Sea observations for Mediterranean Sea and Aegean Sea.	Turkish
0900, 1200, 1500, 1800, 2100 LT (2)(3)	<b>B</b>	3 day forecast for Black Sea, Marmara Denizi, Aegean Sea and Mediterranean Sea.	Turkish
0900, 1930	<b>A</b>	3 day forecast for Black Sea, Marmara Denizi, Aegean Sea and Mediterranean Sea.	Turkish
On receipt	<b>A</b>	Weather warnings.	

- (1) After prior announcement on Ch. 16.  
(2) Broadcasts given 1 hour early when DST is in force.  
(3) Broadcasts are repeated 3 times at 5 minute intervals.

**TURKEY****Istanbul****Position:** 40°59'00"N 025°49'00"E**Call Sign:** TAH**METAREA:** III**Area Covered:** Marmara Sea and Western Black Sea coasts (30 miles distance)

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	<b>A</b>	13 128 kHz				
RT (HF)	<b>A</b>	8 812 kHz				
RT (HF)	<b>A</b>	4 405 kHz				
VHF	<b>B</b>	Ch 67 (1)		Sarkoy	40°41'N 27°01'E	
VHF	<b>B</b>	Ch 67 (1)		Mahyadagi	41°47'N 27°37'E	
VHF	<b>B</b>	Ch 67 (1)		Keltepe	40°38'N 30°05'E	
VHF	<b>B</b>	Ch 67 (1)		Kayalidag	39°58'N 26°38'E	
VHF	<b>B</b>	Ch 67 (1)		Camlica	41°02'N 29°04'E	
VHF	<b>B</b>	Ch 67 (1)		Bandirma	40°21'N 27°54'E	
VHF	<b>B</b>	Ch 67 (1)		Ayvalik	39°18'N 26°14'E	
VHF	<b>B</b>	Ch 67 (1)		Akdag	38°33'N 26°30'E	
VHF	<b>B</b>	Ch 67 (1)		Akcakoca	41°59'N 31°12'E	
VHF	<b>B</b>	Ch 67 (1)		Istanbul Control Centre	40°59'N 28°49'E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0700, 1900	<b>B</b>	Weather forecast for Black Sea, Marmara Denizi, Aegean Sea and Mediterranean Sea.	Turkish, English
0730, 0930, 1130, 1330, 1530, 1730, 1930	<b>B</b>	Sea observations for Western Black Sea, Marmara Denizi, Aegean Sea and Mediterranean Sea.	Turkish
0900, 1930	<b>B</b>	3 day forecast for Black Sea, Marmara Denizi, Aegean Sea and Mediterranean Sea.	Turkish
1000, 1800	<b>A</b>	Weather forecast for Sea Areas 12-27.	Turkish, English
On receipt 0700, 1900	<b>B</b>	Weather warnings for Black Sea, Marmara Denizi, Aegean Sea and Mediterranean Sea.	Turkish

- (1) After prior announcement on Ch 16.  
(2) Broadcasts given 1 hour early when DST is in force.  
(3) Broadcasts are repeated 3 times at 5 minutes intervals.

**TURKEY****Samsun****Position:** 41°23'11"N 036°11'22"E**Call Sign:** TAF**METAREA:** III**Area Covered:** Black Sea

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 67 (1)		Zonguldak	41°24'N 31°50'E	
VHF	A	Ch 67 (1)		Yidiztepe	41°06'N 37°02'E	
VHF	A	Ch 67 (1)		Pazar	41°09'E 40°49'E	
VHF	A	Ch 67 (1)		Inebolu	41°53'N 33°43'E	
VHF	A	Ch 67 (1)		Dutmen	41°27'N 35°29'E	
VHF	A	Ch 67 (1)		Dikmen	38°16'N 40°55'E	
VHF	A	Ch 67 (1)		Akcabat	41°36'N 39°27'E	
VHF	A	Ch 67 (1)		Samsun Control Centre	41°17'N 36°20'E	

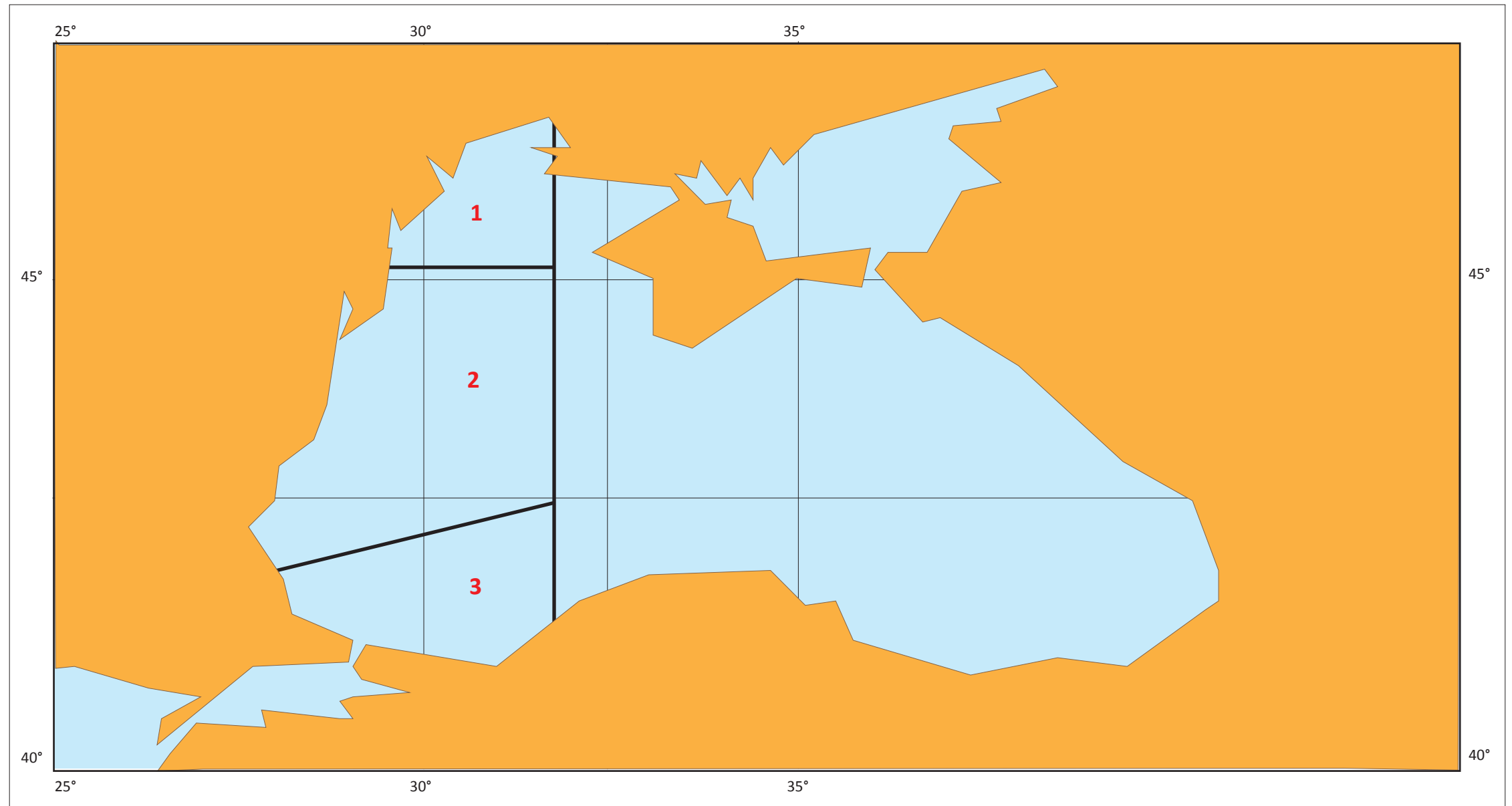
Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0700, 1900	A	Weather forecast for Black Sea, Marmara Denizi, Aegean Sea and Mediterranean Sea.	Turkish, English
0730, 0930, 1130, 1330, 1530, 1730, 1930	A	Sea observations for Western Black Sea, Marmara Denizi, Aegean Sea and Mediterranean Sea.	Turkish
0900, 1930	A	3 day forecast for Black Sea, Marmara Denizi, Aegean Sea and Mediterranean Sea.	Turkish
On receipt 0700, 1900	A	Weather warnings for Black Sea, Marmara Denizi, Aegean Sea and Mediterranean Sea.	Turkish

(1) After prior announcement on Ch 16.

# UKRAINE

Forecast Areas

## Western Black Sea



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**UKRAINE**

**Mariupol'**

**Position:** 47°03'30"N 037°30'40"E

**Call Sign:** --

**METAREA:** III

**Area Covered:** Mediterranean Sea/Black Sea

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (MF)	A	2 805 kHz				

**UKRAINE****Odesa****Position:** 46°22'65"N 030°44'87"E**Call Sign:** --**METAREA:** III**Area Covered:** Black Sea (including Strait of Bosphorus) and Sea of Azov

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	3 310 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt 0233, 0633, 1033, 1433, 1833, 2233	A	For NW Black Sea.	Russian, English

**UKRAINE****Sevastopol, Krymskoi****Position:** 44°34'00"N 033°25'00"E**Call Sign:** URL**METAREA:** III**Area Covered:**

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	A	2 695 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
On receipt 0033, 0733, 1133, 1533, 1933, 2333 On request	A	Navigational warnings: For N Central Black Sea.	

**UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND**

**Aberdeen CGOC**

**Position:** 57°08'67"N 002°05'27"W

**Call Sign:** --

**METAREA:** I

**Area Covered:** Sea areas and the Inshore waters around the United Kingdom of Great Britain and Northern Ireland.

24-hour watch

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	2 226 kHz		Greg Ness	57°07'65"N 2°03'22"W	
VHF	<b>B</b>	Ch 62		Noss Head	58°28'75"N 3°03'08"W	
VHF	<b>B</b>	Ch 62		Forth (Fife Ness)	56°16'70"N 2°35'29"W	
VHF	<b>C</b>	Ch 63		Windyheads Hill	57°38'91"N 2°14'67"W	
VHF	<b>C</b>	Ch 63		Inverbervie	56°51'10"N 2°15'68"W	
VHF	<b>C</b>	Ch 63		Durness	58°33'86"N 4°44'13"W	
VHF	<b>C</b>	Ch 63		Craigkelly	56°04'32"N 3°14'00"W	
VHF	<b>D</b>			Greg Ness	57°07'65"N 2°03'22"W	
VHF	<b>D</b>			Rosemarkie	57°37'99"N 4°04'41"W	
VHF	<b>D</b>			S. Abbs (Crosslaw)	55°54'46"N 2°12'31"W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0130 0430 0730 1030 1330 1630 1930 2230 LT	<b>A-D</b>	Weather Bulletins: Inshore Forecast, Gale and Strong Wind Warnings for WZ Areas 1, 2 and 18.	
0730 1930 LT	<b>A-D</b>	Local Navigational Warnings	
0730 1930 LT	<b>A-D</b>	Weather Bulletins: Shipping Forecast and outlook for Areas: Cromarty, Forties, Forth, Tyne and Fair Isle.3-day Fisherman's Forecast for Sea Areas: Fair Isle, Viking, Forties, Cromarty, Forth, Fisher and Tyne, when and where appropriate (October–March).	
On receipt	<b>A-D</b>	Navigational Warnings: Gale Warnings for Sea Areas: Cromarty, Forties, Forth, Tyne and Fair Isle.	

**Notes:**

1. New Gale Warnings, Storm Warnings and Navigational Warnings will be broadcast (VHF & MF) on receipt and repeated at every scheduled broadcast whilst valid. Such warnings may be announced on DSC.
2. Negative Tidal Surge Warnings will be broadcast (VHF only) on receipt, and at hourly intervals until the next scheduled routine broadcast. Such warnings may also be announced on DSC.



**UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND**

**BBC Radio 4**

**Position:** 51°31'00"N 000°08'00"W

**Call Sign:** --

**METAREA:** I

**Area Covered:**

24-hour watch

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
AM	<b>A</b>	198 kHz		Westerglen	55°58'52"N 3°48'93"W	
AM	<b>A</b>	198 kHz		Droitwich	52°17'69"N 2°06'33"W	
AM	<b>A</b>	198 kHz		Burghead	57°41'89"N 3°28'18"W	
AM	<b>B</b>	756 kHz		Redruth MF	50°12'60"N 5°14'34"W	
AM	<b>B</b>	1449 kHz		Redmoss	57°06'85"N 2°05'70"W	
AM	<b>B</b>	774 kHz		Plymouth	50°24'31"N 4°06'63"W	
AM	<b>B</b>	603 kHz		Newcastle	54°56'00"N 1°34'00"W	
AM	<b>B</b>	720 kHz		Londonderry	55°00'00"N 7°22'00"W	
AM	<b>B</b>	720 kHz		Lisnagarvey	54°29'00"N 6°03'00"W	
AM	<b>B</b>	774 kHz		Enniskillen	54°22'00"N 7°39'00"W	
AM	<b>B</b>	720 kHz		Crystal Palace	51°25'00"N 0°05'00"W	
AM	<b>B</b>	1485 kHz		Carlisle	54°52'00"N 2°55'00"W	
FM	<b>C</b>	92.4-104.9 MHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0048 0520 LT	<b>A-C</b>	Gale warnings, shipping forecast, weather reports from coast stations and the inshore forecast.	
1201 1754 LT	<b>A</b>	Weather Bulletins: Gale warnings and shipping forecast.	
1754 LT (Sat & Sun)	<b>C</b>	Weather Bulletins: Gale warnings and shipping forecast.	

**UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND**

**Belfast CGOC**

**Position:** 04°39'85"N 005°40'14"W

**Call Sign:** --

**METAREA:** I

**Area Covered:** Sea areas and the Inshore waters around the United Kingdom of Great Britain and Northern Ireland

24-hour watch

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	1883		Tiree (Scarinish)	56°29'97"N 6°48'43"W	
VHF	<b>B</b>	Ch 10		Ru Stafnish	55°22'27"N 5°31'93"W	
VHF	<b>B</b>	Ch 10		Limavady	55°06'56"N 6°53'18"W	
VHF	<b>C</b>	Ch 62		Orlock Head	54°40'42"N 5°35'06"W	
VHF	<b>C</b>	Ch 62		Kilchiaran	55°45'90"N 6°27'29"W	
VHF	<b>C</b>	Ch 62		Clyde (Greenock)	55°55'45"N 4°48'14"W	
VHF	<b>D</b>	Ch 63		South Knapdale	55°55'06"N 5°27'79"W	
VHF	<b>D</b>	Ch 63		Black Mountain	54°35'00"N 6°01'30"W	
VHF	<b>E</b>	Ch 64		West Torr	55°11'91"N 6°05'68"W	
VHF	<b>E</b>	Ch 64		Slieve Martin	54°05'61"N 6°09'61"W	
VHF	<b>E</b>	Ch 64		Navar	54°28'00"N 7°54'00"W	
VHF	<b>E</b>	Ch 64		Law Hill	55°41'75"N 4°50'52"W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0210 0510 0810 1110 1410 1710 2010 2310 LT	<b>A-E</b>	Weather Bulletins: Inshore Forecast, Gale and Strong Wind Warnings for WZ Areas 12-15.	
0810 2010 LT	<b>A-E</b>	Weather Bulletins: Shipping Forecast and outlook for Sea Areas: Irish Sea, Rockall, Malin and Hebrides. Navigational Warnings: Local Navigational Warnings. Coastal (WZ) Navigational Warnings for WZ Areas 12-15.	
On receipt	<b>A-E</b>	Navigational Warnings: Gale Warnings for Sea Areas: Irish Sea, Rockall, Malin and Hebrides.	

**Notes:**

1. New Gale Warnings, Storm Warnings and Navigational Warnings will be broadcast (VHF & MF) on receipt and repeated at every scheduled broadcast whilst valid. Such warnings may be announced on DSC.
2. Negative Tidal Surge Warnings will be broadcast (VHF only) on receipt, and at hourly intervals until the next scheduled routine broadcast. Such warnings may also be announced on DSC.

**UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND**

**Dover CGOC**

**Position:** 51°07'98"N 001°20'60"E

**Call Sign:** --

**METAREA:** I

**Area Covered:** Sea areas and the Inshore waters around the United Kingdom of Great Britain and Northern Ireland

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	<b>A</b>	Ch 62		Fairlight	50°52'27"N 0°38'74"E	
VHF	<b>A</b>	Ch 62		Bawdsey	51°59'61"N 1°24'49"E	
VHF	<b>B</b>	Ch 63		Shoeburyness	51°31'38"N 0°46'57"E	
VHF	<b>B</b>	Ch 63		Walton on the Naze	51°51'30"N 1°16'79"E	
VHF	<b>C</b>	Ch 64		Bradwell	51°43'98"N 0°53'36"E	
VHF	<b>C</b>	Ch 64		Langdon Battery	51°07'98"N 1°20'60"E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0110 0410 0710 1010 1310 1610 1910 2210 LT	<b>A-C</b>	Weather Bulletins: Inshore Forecast, Gale and Strong Wind Warnings for WZ Areas 5 and 6. Navigational Warnings: Local Navigational Warnings.	
0710 1910 LT	<b>A-C</b>	Weather Bulletins: Shipping Forecast and outlook for Sea Areas: Humber, Thames, Dover and Wight. Navigational Warnings: Coastal (WZ) Navigational Warnings for WZ Areas 5 and 6.	
On receipt	<b>A-C</b>	Navigational Warnings: Gale Warnings for Sea Areas: Humber, Thames, Dover and Wight.	

**Notes:**

1. New Gale Warnings, Storm Warnings and Navigational Warnings will be broadcast on receipt and repeated at every scheduled broadcast whilst valid. Such warnings may be announced on DSC.
2. Negative Tidal Surge Warnings will be broadcast on receipt, and at hourly intervals until the next scheduled routine broadcast. Such warnings may also be announced on DSC.

**UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND**

**Falmouth CGOC**

**Position:** 50°08'71"N 005°02'73"W

**Call Sign:** --

**METAREA:** I

**Area Covered:** Sea areas and the Inshore waters around the United Kingdom of Great Britain and Northern Ireland

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	1 880 kHz		S. Mary's (Isles of Scilly)	49°55'73"N 6°18'23"W	
VHF	<b>B</b>	Ch 10		Dartmouth	50°21'30"N 3°35'20"W	
VHF	<b>B</b>	Ch 10		Fowey	50°19'62"N 4°38'19"W	
VHF	<b>C</b>	Ch 62		Trevoze Head	50°32'91"N 5°01'99"W	
VHF	<b>C</b>	Ch 62		Falmouth	50°08'71"N 5°02'73"W	
VHF	<b>C</b>	Ch 62		East Prawle	50°13'14"N 3°42'55"W	
VHF	<b>D</b>	Ch 63		Lizard	49°57'86"N 5°12'46"W	
VHF	<b>D</b>	Ch 63		Berry Head	50°23'97"N 3°29'04"W	
VHF	<b>E</b>	Ch 64		S. Mary's (Isles of Scilly)	49°55'73"N 6°18'23"W	
VHF	<b>E</b>	Ch 64		Rame Head	50°19'03"N 4°13'18"W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0110 0410 0710 1010 1310 1610 1910 2210 LT	<b>A-E</b>	Weather Bulletins: Inshore Forecast, Gale and Strong Wind Warnings for WZ Areas 8 and 9.	
0710 1910 LT	<b>A-E</b>	Weather Bulletins: Shipping Forecast and outlook for Sea Areas: Portland, Plymouth, Sole, Lundy and Fastnet. 3-day Fisherman's Forecast for Sea Areas: Plymouth, Fitzroy, Sole, Lundy and Fastnet, when and where appropriate (October–March). Navigational Warnings: Local Navigational Warnings. Coastal (WZ) Navigational Warnings for WZ Areas 8 and 9.	
On receipt	<b>A-E</b>	Navigational Warnings: Gale Warnings for Sea Areas: Portland, Plymouth, Sole, Lundy and Fastnet.	

**Notes:**

1. New Gale Warnings, Storm Warnings and Navigational Warnings will be broadcast (VHF & MF) on receipt and repeated at every scheduled broadcast whilst valid. Such warnings may be announced on DSC.

2. Negative Tidal Surge Warnings will be broadcast (VHF only) on receipt, and at hourly intervals until the next scheduled routine broadcast. Such warnings may also be announced on DSC.

**UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND**

**Holyhead CGOC**

**Position:** 53°18'98"N 004°37'95"W

**Call Sign:** --

**METAREA:** I

**Area Covered:** Sea areas and the Inshore waters around the United Kingdom of Great Britain and Northern Ireland

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	<b>A</b>	Ch 62		Langthwaite	54°01'95"N 2°45'74"W	
VHF	<b>B</b>	Ch 63		Moel-y-parc	53°13'23"N 3°18'81"W	
VHF	<b>B</b>	Ch 63		Caldbeck	54°46'40"N 3°05'43"W	
VHF	<b>C</b>	Ch 64		Snaefell	54°15'84"N 4°27'66"W	
VHF	<b>D</b>	Ch 63		South Stack	53°18'54"N 4°41'17"W	
VHF	<b>E</b>	Ch 64		Great Orme	53°19'97"N 3°51'21"W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0130 0430 0730 1030 1330 1630 1930 2230 LT	<b>A-C</b>	Weather Bulletins: Inshore Forecast, Gale and Strong Wind Warnings for WZ Areas 11-12.	
0150 0450 0750 1050 1350 1650 1950 2250 LT	<b>D,E</b>	Weather Bulletins: Inshore Forecast, Gale and Strong Wind Warnings for WZ Areas 10-11.	
0730 1930 LT	<b>A-C</b>	Weather Bulletins: Shipping Forecast and outlook for the Irish Sea. Navigational Warnings: Local Navigational Warnings. Coastal (WZ) Navigational Warnings for WZ Areas 11-12.	
0750 1950 LT	<b>D,E</b>	Weather Bulletins: Shipping Forecast and outlook for the Irish Sea. Navigational Warnings: Local Navigational Warnings. Coastal (WZ) Navigational Warnings for WZ Areas 10-11.	
On receipt	<b>A-E</b>	Navigational Warnings: Gale Warnings for the Irish Sea.	

**Notes:**

1. New Gale Warnings, Storm Warnings and Navigational Warnings will be broadcast on receipt and repeated at every scheduled broadcast whilst valid. Such warnings may be announced on DSC.
2. Negative Tidal Surge Warnings will be broadcast on receipt, and at hourly intervals until the next scheduled routine broadcast. Such warnings may also be announced on DSC.

**UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND**

**Humber CGOC**

**Position:** 54°05'64"N 000°10'55"W

**Call Sign:** --

**METAREA:** I

**Area Covered:** Sea areas and the Inshore waters around the United Kingdom of Great Britain and Northern Ireland

Watch hours on: 2187.5 kHz (MF)

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	1925 kHz		Cullercoats	55°04'40"N 1°27'80"W	
VHF	<b>B</b>	Ch 62		Mablethorpe	53°18'64"N 0°15'82"E	
VHF	<b>C</b>	Ch 63		Trimingham	52°54'59"N 1°20'60"E	
VHF	<b>C</b>	Ch 63		Boulby	54°33'76"N 0°50'59"W	
VHF	<b>C</b>	Ch 63		Flamborough	54°07'08"N 0°05'21"W	
VHF	<b>C</b>	Ch 63		Guy's Head	52°48'00"N 0°13'00"E	
VHF	<b>C</b>	Ch 63		Lowestoft	52°28'60"N 1°45'65"E	
VHF	<b>C</b>	Ch 63		Newton	55°31'01"N 1°37'21"W	
VHF	<b>D</b>	Ch 64		Ravensca	54°23'83"N 0°30'35"W	
VHF	<b>D</b>	Ch 64		Langham	52°56'53"N 0°57'24"E	
VHF	<b>D</b>	Ch 64		Easington	53°39'15"N 0°05'85"E	
VHF	<b>D</b>	Ch 64		Cullercoats	55°04'40"N 1°27'80"W	
VHF	<b>D</b>	Ch 64		Caister (Yarmouth)	52°39'55"N 1°42'96"E	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0150 0450 0750 1050 1350 1650 1950 2250 LT	<b>A-D</b>	Weather Bulletins: Inshore Forecast, Gale and Strong Wind Warnings for WZ Areas 3-5.	
0750 1950 LT	<b>A-D</b>	Weather Bulletins: Shipping Forecast and outlook for Sea Areas: Forth, Tyne, Dogger, Fisher, German Bight, Humber and Thames. 3-day Fisherman's Forecast for Sea Areas: Forth, Tyne, Dogger, Fisher, German Bight, Humber and Thames, when and where appropriate (October-March). Navigational Warnings: Local Navigational Warnings. Coastal (WZ) Navigational Warnings for WZ Areas 3-5.	
On receipt	<b>A-D</b>	Navigational Warnings: Gale Warnings for Sea Areas: Forth, Tyne, Dogger, Fisher, German Bight, Humber and Thames.	

**Notes:**

1. New Gale Warnings, Storm Warnings and Navigational Warnings will be broadcast (VHF & MF) on receipt and repeated at every scheduled broadcast whilst valid. Such warnings may be announced on DSC.
2. Negative Tidal Surge Warnings will be broadcast (VHF only) on receipt, and at hourly intervals until the next scheduled routine broadcast. Such warnings may also be announced on DSC.

**UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND**

**Milford Haven CGOC**

**Position:** 51°42'47"N 005°03'15"W

**Call Sign:** --

**METAREA:** I

**Area Covered:** Sea areas and the Inshore waters around the United Kingdom of Great Britain and Northern Ireland

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	<b>A</b>	Ch 62		Blaenplwyf	52°21'59"N 4°06'14"W	
VHF	<b>A</b>	Ch 62		S. Ann's Head	51°41'00"N 5°10'58"W	
VHF	<b>A</b>	Ch 62		Tenby	51°41'67"N 4°41'28"W	
VHF	<b>B</b>	Ch 63		S. Hilary	51°27'43"N 3°24'18"W	
VHF	<b>B</b>	Ch 63		Combe Martin	51°10'05"N 4°02'83"W	
VHF	<b>C</b>	Ch 64		Severn Bridges	51°37'00"N 2°39'00"W	
VHF	<b>C</b>	Ch 64		Mumbles	51°34'15"N 3°59'05"W	
VHF	<b>C</b>	Ch 64		Hartland Point	51°01'22"N 4°31'38"W	
VHF	<b>C</b>	Ch 64		Dinas Head	52°00'25"N 4°53'68"W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0150 0450 0750 1050 1350 1650 1950 2250 LT	<b>A-C</b>	Weather Bulletins: Inshore Forecast, Gale and Strong Wind Warnings for WZ Areas 9 and 10.	
0750 1950 LT	<b>A-C</b>	Weather Bulletins: Shipping Forecast and outlook for Sea Areas: Lundy, Fastnet, Irish Sea and Shannon. Navigational Warnings: Local Navigational Warnings. Coastal (WZ) Navigational Warnings for WZ Areas 9 and 10.	
On receipt	<b>A-C</b>	Navigational Warnings: Gale Warnings for Sea Areas: Lundy, Fastnet, Irish Sea and Shannon.	

Note: Vessels should listen to the MSI announcement on VHF Ch 16 for details of the working channel to be used for the broadcast.

**UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND**

**RAF VOLMET**

**Position:** 51°40'90"N 000°48'00"W

**Call Sign:** --

**METAREA:** I

**Area Covered:**

24-hour watch

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	<b>A</b>	5 450 kHz, 11 253		Prestwick	55°30'47"N 4°35'20"W	
RT (HF)	<b>A</b>	5 450 kHz, 11 253		Lossiemouth	57°42'31"N 3°20'35"W	
RT (HF)	<b>A</b>	5 450 kHz, 11 253		Leuchars	56°22'65"N 2°49'71"W	
RT (HF)	<b>A</b>	5 450 kHz, 11 253		Kinloss	57°38'96"N 3°33'64"W	
RT (HF)	<b>A</b>	5 450 kHz, 11 253		Cardiff	51°24'17"N 3°20'85"W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
Every H+00 H+30	<b>A</b>	Weather Bulletins: VOLMET is a meteorological service provided for aviation which continuously broadcasts reports of actual weather conditions and /or weather forecasts for selected airfields on HF SSB. The information given consists of: airport name, wind direction and speed, visibility, cloud amount and height, air temperature and dew point temperature, sea level pressure and any significant weather. If no updated weather report arrives within one hour of the last report then a `NO REPORT' is transmitted.	
Every H+06 H+36	<b>B</b>	Weather Bulletins: VOLMET is a meteorological service provided for aviation which continuously broadcasts reports of actual weather conditions and /or weather forecasts for selected airfields on HF SSB. The information given consists of: airport name, wind direction and speed, visibility, cloud amount and height, air temperature and dew point temperature, sea level pressure and any significant weather. If no updated weather report arrives within one hour of the last report then a `NO REPORT' is transmitted.	



**UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND**

**Shetland CGOC**

**Position:** 60°08'92"N 001°08'42"W

**Call Sign:** --

**METAREA:** I

**Area Covered:** Sea areas and the Inshore waters around the United Kingdom of Great Britain and Northern Ireland

24-hour watch

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	1 770 kHz		Collafirth Hill	60°32'00"N 1°23'50"W	
VHF	<b>B</b>	Ch 62		Lerwick (Shetland)	60°08'92"N 1°08'43"W	
VHF	<b>C</b>	Ch 63		Fitful Head	59°54'34"N 1°23'02"W	
VHF	<b>C</b>	Ch 63		Saxa Vord	60°49'74"N 0°50'46"W	
VHF	<b>D</b>	Ch 64		Collafirth Hill	60°32'00"N 1°23'50"W	
VHF	<b>D</b>	Ch 64		Wideford Hill (Orkney)	58°59'30"N 3°01'31"W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0110 0410 0710 1010 1310 1610 1910 2210 LT	<b>A-D</b>	Weather Bulletins: Inshore Forecast, Gale and Strong Wind Warnings for WZ Areas 1 and 18.	
0710 1910 LT	<b>A-D</b>	Weather Bulletins: Shipping forecast for Sea Areas: Viking, Cromarty, Fair Isle and Faroes. 3-day Fisherman's Forecast for Sea Areas: Fair Isle, Viking, Forties and Cromarty, when and where appropriate (October–March). Navigational Warnings: Local Navigational Warnings. Coastal (WZ) Navigational Warnings for WZ Areas 1, 2 and 18.	
On receipt	<b>A-D</b>	Navigational Warnings: Gale warnings for Sea Areas: Viking, Cromarty, Fair Isle and Faroes.	

**Notes:**

1. New Gale Warnings, Storm Warnings and Navigational Warnings will be broadcast (VHF & MF) on receipt and repeated at every scheduled broadcast whilst valid. Such warnings may be announced on DSC.
2. Negative Tidal Surge Warnings will be broadcast (VHF only) on receipt, and at hourly intervals until the next scheduled routine broadcast. Such warnings may also be announced on DSC.

**UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND**

**Solent CGOC**

**Position:** 50°51'50"N 001°14'98"W

**Call Sign:** --

**METAREA:** I

**Area Covered:** Sea areas and the Inshore waters around the United Kingdom of Great Britain and Northern Ireland

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	<b>A</b>	Ch 63		Boniface Down (IOW)	50°36'22"N 1°12'03"W	
VHF	<b>A</b>	Ch 63		The Grove (Portland)	50°32'92"N 2°25'18"W	
VHF	<b>B</b>	Ch 62		Newhaven	50°46'94"N 0°02'99"E	
VHF	<b>B</b>	Ch 62		Needles	50°39'67"N 1°34'57"W	
VHF	<b>B</b>	Ch 62		Beer Head	50°41'46"N 3°06'41"W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0130 0430 0730 1030 1330 1630 1930 2230 LT	<b>A,B</b>	Weather Bulletins: Inshore Forecast, Gale and Strong Wind Warnings for WZ Areas 6-8. Navigational Warnings: Local Navigational Warnings.	
0730 1930 LT	<b>A,B</b>	Weather Bulletins: Shipping Forecast and outlook for Sea Areas: Dover, Wight, Portland and Plymouth. Navigational Warnings: Coastal (WZ) Navigational Warnings for WZ Areas 6-8.	
On receipt	<b>A,B</b>	Navigational Warnings: Gale Warnings for Sea Areas: Dover, Wight, Portland and Plymouth.	

**Notes:**

1. New Gale Warnings, Storm Warnings and Navigational Warnings will be broadcast on receipt and repeated at every scheduled broadcast whilst valid. Such warnings may be announced on DSC.
2. Negative Tidal Surge Warnings will be broadcast on receipt, and at hourly intervals until the next scheduled routine broadcast. Such warnings may also be announced on DSC.

**UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND**

**Stornoway CGOC**

**Position:** 58°12'20"N 006°22'54"W

**Call Sign:** --

**METAREA:** I

**Area Covered:** Sea areas and the Inshore waters around the United Kingdom of Great Britain and Northern Ireland

24-hour watch

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	1 743 kHz		Butt of Lewis	58°27'69"N 6°13'86"W	
VHF	<b>B</b>	Ch 10		Barra	57°00'66"N 7°30'42"W	
VHF	<b>B</b>	Ch 10		Butt of Lewis	58°27'69"N 6°13'86"W	
VHF	<b>B</b>	Ch 10		Skriag	57°23'18"N 6°14'53"W	
VHF	<b>B</b>	Ch 10		Torosay	56°27'49"N 5°43'76"W	
VHF	<b>C</b>	Ch 62		Rodel	57°44'81"N 6°57'30"W	
VHF	<b>C</b>	Ch 62		Glengorm	56°37'92"N 6°07'95"W	
VHF	<b>C</b>	Ch 62		Forsnaval	58°12'77"N 7°00'35"W	
VHF	<b>D</b>	Ch 63		Tiree (Balevullin)	56°30'23"N 6°57'84"W	
VHF	<b>D</b>	Ch 63		Portnaguran	58°14'80"N 6°09'81"W	
VHF	<b>D</b>	Ch 63		Drumfearn	57°12'00"N 5°48'00"W	
VHF	<b>D</b>	Ch 63		Clettraval	57°37'08"N 7°26'81"W	
VHF	<b>E</b>	Ch 64		Melvaig	57°50'58"N 5°46'92"W	
VHF	<b>E</b>	Ch 64		Arisaig	56°55'14"N 5°49'81"W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0110 0410 0710 1010 1310 1610 1910 2210 LT	<b>A-E</b>	Weather Bulletins: Inshore Forecast, Gale and Strong Wind Warnings for WZ Areas 15-17.	
0710 1910 LT	<b>A-E</b>	Weather Bulletins: Shipping Forecast and outlook for Sea Areas: Rockall, Malin, Hebrides, Bailey, Fair Isle, Faeroes and Southeast Iceland.3-day Fisherman's Forecast for Sea Areas: Rockall, Malin, Hebrides and Faeroes, when and where appropriate (October-March). Navigational Warnings: Local Navigational Warnings. Coastal (WZ) Navigational Warnings for WZ Areas 15-17.	
On receipt	<b>A-E</b>	Navigational Warnings: Gale Warnings for Sea Areas: Rockall, Malin, Hebrides, Bailey, Fair Isle, Faeroes and Southeast Iceland.	

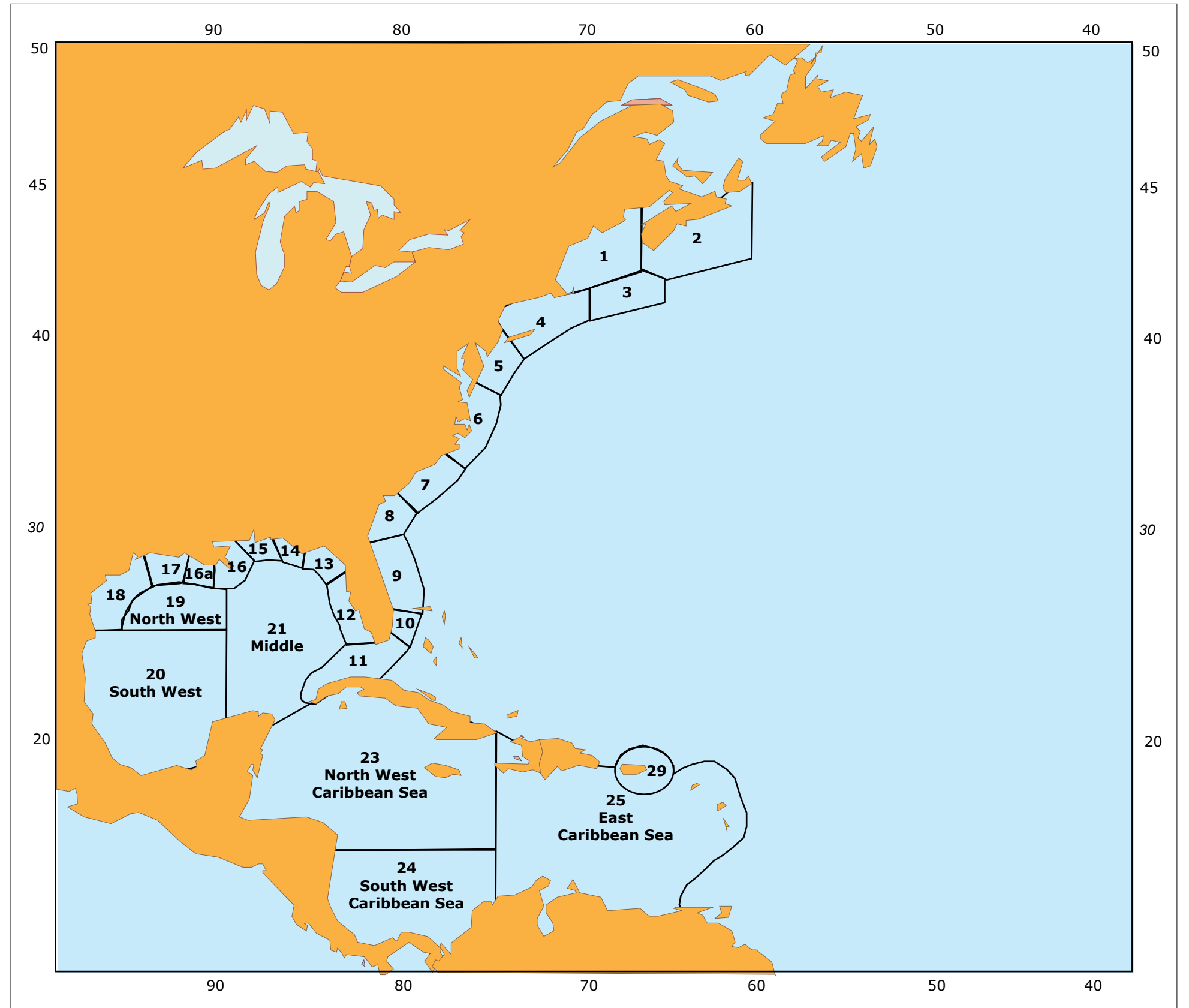
**Notes:**

1. New Gale Warnings, Storm Warnings and Navigational Warnings will be broadcast (VHF & MF) on receipt and repeated at every scheduled broadcast whilst valid. Such warnings may be announced on DSC.
2. Negative Tidal Surge Warnings will be broadcast (VHF only) on receipt, and at hourly intervals until the next scheduled routine broadcast. Such warnings may also be announced on DSC.

# UNITED STATES OF AMERICA

Atlantic and Gulf Coast Forecast Areas

- Key:**
- 1 Gulf of Maine
  - 2 South of Nova Scotia
  - 3 George's Bank
  - 4 South of New England
  - 5 Hudson Canyon to Baltimore Canyon
  - 6 Baltimore Canyon to Hatteras Canyon
  - 7 Hatteras Canyon to Blake Ridge
  - 8 Savannah to S. Augustine
  - 9 S. Augustine to Jupiter Inlet
  - 10 Jupiter Inlet to Key Largo
  - 11 Key Largo to Dry Tortugas
  - 12 Cape Sable to Tarpon Springs
  - 13 Tarpon Springs to Apalachicola
  - 14 Apalachicola to Pensacola
  - 15 Pensacola to Gulfport
  - 16 Mississippi River to Intracoastal City
  - 16a Intracoastal City to Port Arthur
  - 17 Port Arthur to Port O'Connor
  - 18 Port O'Connor to Brownsville
  - 20 Puerto Rico and (US) Virgin Islands



The designations employed and the presentation of material in this publication do not imply the expression of any opinion whatsoever on the part of the Secretariat of WMO concerning the legal status of any country, territory, city or area, or of its authorities, or concerning the delimitation of its frontiers or boundaries.

**UNITED STATES OF AMERICA**

**Astoria (USCG)**

**Position:** 46°11'16"N 123°49'52"W

**Call Sign:** NMW

**METAREA:** XII

**Area Covered:** East Pacific

24-hour watch

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 22A				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0533, 1733	A	Gale warnings, synopsis and forecast for offshore areas 81 and 82.	
On receipt 0533, 1733	A	Navigational warnings: Local warnings.	

**UNITED STATES OF AMERICA**

**Atlantic City (USCG)**

**Position:** 39°21'51"N 074°25'22"W

**Call Sign:** --

**METAREA:** IV

**Area Covered:** Atlantic Coast

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 22A				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
1103, 2303	A	Local weather. Navigational warnings: Local warnings.	
On receipt	A	Storm warnings. Navigational warnings: Local warnings.	

**UNITED STATES OF AMERICA**

**Baltimore (USCG)**

**Position:** 39°11'00"N 076°34'00"W

**Call Sign:** --

**METAREA:** IV

**Area Covered:** Atlantic Coast

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 22A				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0130, 1205	A	Local weather. Navigational warnings: Local warnings.	
On receipt	A	Storm warnings. Navigational warnings: Local warnings.	

**UNITED STATES OF AMERICA**

**Boston, Massachusetts (USCG)**

**Position:** 42°22'00"N 071°03'00"W

**Call Sign:** NMF, NIK

**METAREA:** IV

**Area Covered:** North Atlantic to Barents Sea

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 22A				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
1035, 2235	A	Local weather. Navigational warnings: Local warnings.	
On receipt	A	Gale warnings.	

NOTE: Remotely controlled from CAMSLANT



**UNITED STATES OF AMERICA**

**Buffalo (USCG)**

**Position:** 42°53'11"N 078°52'42"W

**Call Sign:** NMD47

**METAREA:** IV

**Area Covered:** Great Lakes

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 22A				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0255, 1455	A	Local weather. Navigational warnings: Local warnings.	
On receipt	A	Gale warnings for Lakes Erie and Ontario. Navigational warnings: Local warnings.	

**UNITED STATES OF AMERICA**

**Cape Hatteras (USCG)**

**Position:** 35°14'52"N 075°32'21"W

**Call Sign:** NMN13

**METAREA:** IV

**Area Covered:** Atlantic Coast

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 22A				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0100, 1055	A	Local weather. Navigational warnings: Local warnings.	
On receipt	A	Navigational warnings: Local warnings.	

**UNITED STATES OF AMERICA**

**Charleston (USCG)**

**Position:** 32°50'00"N 079°56'00"W

**Call Sign:** NMB

**METAREA:** IV

**Area Covered:** Atlantic area

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 22A				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
1200, 2200 On receipt	A	Local warnings. Navigational warnings: Local warnings.	

**UNITED STATES OF AMERICA****Chesapeake (USCG)  
CAMSLANT (Communications Area Master Station Atlantic)****Position:** 36°46'05"N 076°17'14"W**Call Sign:** NMN**METAREA:** IV**Area Covered:** Atlantic area

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	<b>A</b>	4 426 kHz				
RT (HF)	<b>B</b>	6 501 kHz				
RT (HF)	<b>C</b>	8 764 kHz				
RT (HF)	<b>D</b>	13 089 kHz				
RT (HF)	<b>E</b>	17 314 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0330, 0515, 0930, 1115, 1530, 1715, 2130, 2315	<b>A-E</b>	Hurricane information.	
0330, 0930	<b>A-C</b>	Off shore forecasts: warnings, synopsis and forecast for all areas.	
0515	<b>A-C</b>	High Seas Forecast: warnings, synopsis and forecast for the North Atlantic N of 7°N, W of 35°W including the Gulf of Mexico and Caribbean Sea.	
1115, 2315	<b>B-D</b>	High Seas Forecast: warnings, synopsis and forecast for the North Atlantic N of 7°N, W of 35°W including the Gulf of Mexico and Caribbean Sea.	
1530, 2130	<b>B-D</b>	Off shore forecasts: warnings, synopsis and forecast for all areas.	
1715	<b>C-E</b>	High Seas Forecast: warnings, synopsis and forecast for the North Atlantic N of 7°N, W of 35°W including the Gulf of Mexico and Caribbean Sea.	

**UNITED STATES OF AMERICA**

**Chincoteague (Eastern Shore) (USCG)**

**Position:** 37°55'59"N 075°22'43"W

**Call Sign:** NMN70

**METAREA:** IV

**Area Covered:** Atlantic area

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 22A				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0200, 1145	A	Local weather. Navigational warnings: Local warnings.	

**UNITED STATES OF AMERICA**

**Corpus Christi (USCG)**

**Position:** 27°42'00"N 097°16'00"W

**Call Sign:** NOY8

**METAREA:** IV

**Area Covered:** Gulf coast

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 22A				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
1040, 1240, 1640, 2240	A	Local weather. Navigational warnings: Local warnings.	
On receipt	A	Gale warnings.	

**UNITED STATES OF AMERICA**

**Detroit (USCG)**

**Position:** 42°19'53"N 083°02'44"W

**Call Sign:** NMD25

**METAREA:** IV

**Area Covered:** Great Lakes

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 22A				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0135, 1335	A	Local weather. Navigational warnings: Local warnings.	
On receipt	A	Gale warnings for Lakes Erie S. Clair and Huron. Navigational warnings: Local warnings.	

**UNITED STATES OF AMERICA**

**Fort Macon (USCG)**

**Position:** 34°41'53"N 076°41'25"W

**Call Sign:** --

**METAREA:** IV

**Area Covered:** Atlantic Coast

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 22 CG				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0130, 1030	A	Local weather. Navigational warnings: Local warnings.	
On receipt	A	Gale warnings. Navigational warnings: Local warnings.	



**UNITED STATES OF AMERICA**

**Grand Haven (USCG)**

**Position:** 43°03'47"N 086°13'42"W

**Call Sign:** NMD32

**METAREA:** IV

**Area Covered:** Great Lakes

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 22A				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0235, 1435	A	Local weather. Navigational warnings: Local warnings.	

**UNITED STATES OF AMERICA**

**Hampton Roads (USCG)**

**Position:** 36°53'00"N 076°21'00"W

**Call Sign:** --

**METAREA:** IV

**Area Covered:** Atlantic Coast

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 22A				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0230, 1120	A	Local weather. Navigational warnings: Local warnings.	

**UNITED STATES OF AMERICA**

**Houston-Galveston (USCG)**

**Position:** 29°43'00"N 095°15'00"W

**Call Sign:** --

**METAREA:** IV

**Area Covered:** Gulf coast

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 22 CG				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
On receipt	A	Gale warnings.	
On receipt 1050, 1250, 1650, 2250	A	Gale warnings. Navigational warnings: Local warnings.	

**UNITED STATES OF AMERICA**

**Humboldt Bay (USCG)**

**Position:** 40°58'00"N 124°06'00"W

**Call Sign:** NMC11

**METAREA:** XII

**Area Covered:** Pacific coast

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 22A				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
1615, 2315 On receipt	A	Gale warnings and local weather. Navigational warnings: Local warnings.	

**UNITED STATES OF AMERICA**

**Key West (USCG)**

**Position:** 24°33'00"N 081°47'00"W

**Call Sign:** NOK

**METAREA:** IV

**Area Covered:** Atlantic Coast

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 22A				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
1200, 2200	A	Local weather. Navigational warnings: Local warnings.	
On receipt	A	Gale warnings. Navigational warnings: Local warnings.	

**UNITED STATES OF AMERICA**

**Long Beach (USCG)**

**Position:** 33°46'12"N 118°11'37"W

**Call Sign:** NMQ9

**METAREA:** XII

**Area Covered:** East Pacific

24-hour watch

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 22A				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0200, 1800	A	Gale warnings and local weather. Navigational warnings: Local warnings.	

**UNITED STATES OF AMERICA**

**Long Island Sound (USCG)**

**Position:** 41°04'29"N 072°56'45"W

**Call Sign:** --

**METAREA:** IV

**Area Covered:** Atlantic Coast

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 22A				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
1120, 2320	A	Local weather. Navigational warnings: Local warnings.	

**UNITED STATES OF AMERICA**

**Mayport (USCG)**

**Position:** 30°23'26"N 081°25'23"W

**Call Sign:** NMV

**METAREA:** IV

**Area Covered:** Atlantic Coast

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	B	Ch 22A				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
1215, 2215 On receipt	B	Gale warnings and local weather. Navigational warnings: Local warnings.	



**UNITED STATES OF AMERICA**

**Miami (USCG)**

**Position:** 25°46'00"N 080°08'00"W

**Call Sign:** NCF, NMA

**METAREA:** IV

**Area Covered:** Atlantic area

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 22A				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
1230, 2230 On receipt	A	Local weather. Navigational warnings: Local warnings.	

**UNITED STATES OF AMERICA**

**Milwaukee (USCG)**

**Position:** 43°02'20"N 087°54'23"W

**Call Sign:** NMP9

**METAREA:** IV

**Area Covered:** Great Lakes

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 22A				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0255, 1455	A	Local weather. Navigational warnings: Local warnings.	
On receipt	A	Gale warnings for Lake Michigan.	

**UNITED STATES OF AMERICA****Mobile****Position:** 30°39'00"N 088°03'00"W**Call Sign:** NOQ**METAREA:** IV**Area Covered:** Gulf coast

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	A	17 260 kHz				
RT (HF)	A	13 152 kHz				
RT (HF)	A	8 806 kHz				
RT (HF)	A	6 519 kHz				
RT (HF)	A	4 396 kHz				
RT (HF)	A	22 804 kHz				
RT (HF)	A	17 362 kHz				
RT (HF)	A	13 110 kHz				
RT (HF)	A	8 788 kHz				
RT (HF)	A	4 369 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0500, 1100, 1700, 2300	A	Weather bulletins for Gulf of Mexico, Southwest North Atlantic and Caribbean.	

**UNITED STATES OF AMERICA**

**Mobile (USCG)**

**Position:** 30°42'00"N 088°02'00"W

**Call Sign:** NOQ

**METAREA:** IV

**Area Covered:**

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 22A				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
1020, 1220, 1620, 2220	A	Local weather. Navigational warnings: Local warnings.	
On receipt	A	Gale warnings. Navigational warnings: Local warnings.	

**UNITED STATES OF AMERICA**

**Moriches (USCG)**

**Position:** 40°48'26"N 072°49'16"W

**Call Sign:** --

**METAREA:** IV

**Area Covered:** Atlantic Coast

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 22A				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0010, 1210	A	Local weather. Navigational warnings: Local warnings.	
On receipt	A	Gale warnings. Navigational warnings: Local warnings.	

**UNITED STATES OF AMERICA****New Orleans, Louisiana (USCG)****Position:** 29°57'00"N 090°02'00"W**Call Sign:** NMG**METAREA:** IV**Area Covered:** Atlantic area

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	<b>A</b>	12 788 kHz				
RT (HF)	<b>A</b>	8 502 kHz				
RT (HF)	<b>A</b>	4 316 kHz				
VHF	<b>B</b>	Ch 22A				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0330, 0515, 0930, 1115, 1530, 1715, 2130, 2315,	<b>A</b>	Hurricane information.	
0330, 0930, 1530, 2130	<b>A</b>	Offshore forecasts: warnings, synopsis and forecasts for all areas.	
0515, 1115, 1715, 2315	<b>A</b>	High seas forecasts: warnings, synopsis and forecast for the North Atlantic N of 7°N, W of 35°W including the Gulf of Mexico and Caribbean Sea.	
1035, 1235, 1635, 2235	<b>B</b>	Local weather. Navigational warnings: Local warnings.	
On receipt	<b>B</b>	Gale warnings. Navigational warnings: Local warnings.	

**UNITED STATES OF AMERICA**

**New York (USCG)**

**Position:** 40°42'46"N 074°00'21"W

**Call Sign:** KEA

**METAREA:** IV

**Area Covered:** Atlantic Coast

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 22A				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
1050, 2250	A	Local weather. Navigational warnings: Local warnings.	
1050,, 2250	A	Local weather. Navigational warnings: Local warnings.	

**UNITED STATES OF AMERICA****North Bend (USCG)****Position:** 43°24'23"N 124°13'27"W**Call Sign:** NOE**METAREA:** XII**Area Covered:** Pacific coast

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 22A				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0603, 1803	A	Gale warnings, synopsis and forecast for offshore areas 81 and 82. Gale warnings and local weather for coastal areas. Navigational warnings: Local warnings.	
On receipt	A	Gale warnings for offshore areas 81 and 82. Navigational warnings: Local warnings.	



**UNITED STATES OF AMERICA****Point Reyes (USCG) CAMSPAC (Communications Area Master Station Pacific)****Position:** 38°04'08"N 122°48'24"W**Call Sign:** NMC**METAREA:** XII**Area Covered:** Pacific coast

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	<b>A</b>	4 426 kHz				
RT (HF)	<b>B</b>	13 089 kHz				
RT (HF)	<b>B</b>	8 764 kHz				
RT (HF)	<b>C</b>	17 314 kHz				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0430, 1030	<b>A, B</b>	Offshore forecasts for Areas 81-85. High Seas forecast for NE Pacific - Equator to 30°N and E of 140°W.	
1630, 2230	<b>B,C</b>	Offshore forecasts for Areas 81-85. High Seas forecast for NE Pacific - Equator to 30°N and E of 140°W.	

**UNITED STATES OF AMERICA**

**Port Angeles (USCG)**

**Position:** 48°07'05"N 123°25'50"W

**Call Sign:** NOW

**METAREA:** XII

**Area Covered:** Pacific coast

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 22A				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
On receipt 0615, 1815	A	Navigational warnings: Local warnings.	

**UNITED STATES OF AMERICA**

**Portland (USCG)**

**METAREA:** IV  
**Area Covered:** Pacific coast

**Position:** 43°39'41"N 070°15'19"W  
**Call Sign:** NMF31

**UNITED STATES OF AMERICA**

**Saint Petersburg (USCG)**

**Position:** 27°45'00"N 082°37'00"W

**Call Sign:** NME

**METAREA:** IV

**Area Covered:** Gulf coast

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 22A				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
1300, 2300	A	Local weather. Navigational warnings: Local warnings.	
On receipt	A	Gale warnings. Navigational warnings: Local warnings.	

**UNITED STATES OF AMERICA**

**San Diego (USCG)**

**Position:** 32°43'00"N 117°11'00"W

**Call Sign:** NOR

**METAREA:** XII

**Area Covered:** Pacific coast

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 22A				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
On receipt	A	Local weather. Navigational warnings: Local warnings.	

**UNITED STATES OF AMERICA**

**Sault Sainte Marie (USCG)**

**Position:** 46°29'43"N 084°20'43"W

**Call Sign:** NOG

**METAREA:** IV

**Area Covered:** Great Lakes

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 22A				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0005, 1205	A	Local weather. Navigational warnings: Local warnings.	
On receipt	A	Gale warnings for Lakes Superior, Michigan and Huron. Navigational warnings: Local warnings.	

**UNITED STATES OF AMERICA****Seattle****Position:** 47°36'22"N 122°19'55"W**Call Sign:** KLB**METAREA:** XII**Area Covered:** Pacific coast

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (HF)	<b>A</b>	17 311 kHz				
RT (HF)	<b>A</b>	13 101 kHz				
RT (HF)	<b>A</b>	8 731 kHz				
RT (HF)	<b>A</b>	4 405 kHz				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0800, 1500	<b>A</b>	Forecast for Alaska offshore.	
0800, 1500, 2000	<b>A</b>	Forecast for North East Pacific.	
Every H+00	<b>A</b>	Tropical weather updates during hurricane season.	

**UNITED STATES OF AMERICA**

**Seattle (USCG)**

**Position:** 47°36'22"N 122°19'55"W

**Call Sign:** NMW43

**METAREA:** XII

**Area Covered:** Pacific coast

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 22A				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0630, 1830	A	Local weather. Navigational warnings: Local warnings.	
On receipt	A	Gale warnings. Navigational warnings: Local warnings.	



**UNITED STATES OF AMERICA**

**Southwest Harbour (USCG)**

**Position:** 44°16'47"N 068°19'29"W

**Call Sign:** NMF44

**METAREA:** IV

**Area Covered:** Atlantic Coast

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 22A				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
1135, 2335	A	Local weather. Navigational warnings: Local warnings.	

**UNITED STATES OF AMERICA**

**Woods Hole (USCG)**

**Position:** 41°31'35"N 070°40'23"W

**Call Sign:** NMF2

**METAREA:** IV

**Area Covered:** Atlantic Coast

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 22A				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
1005, 2205	A	Local weather. Navigational warnings: Local warnings.	
On receipt	A	Gale warnings. Navigational warnings: Local warnings.	

# UNITED STATES OF AMERICA, ALASKA

## Weather Forecast Areas for Northern Alaska

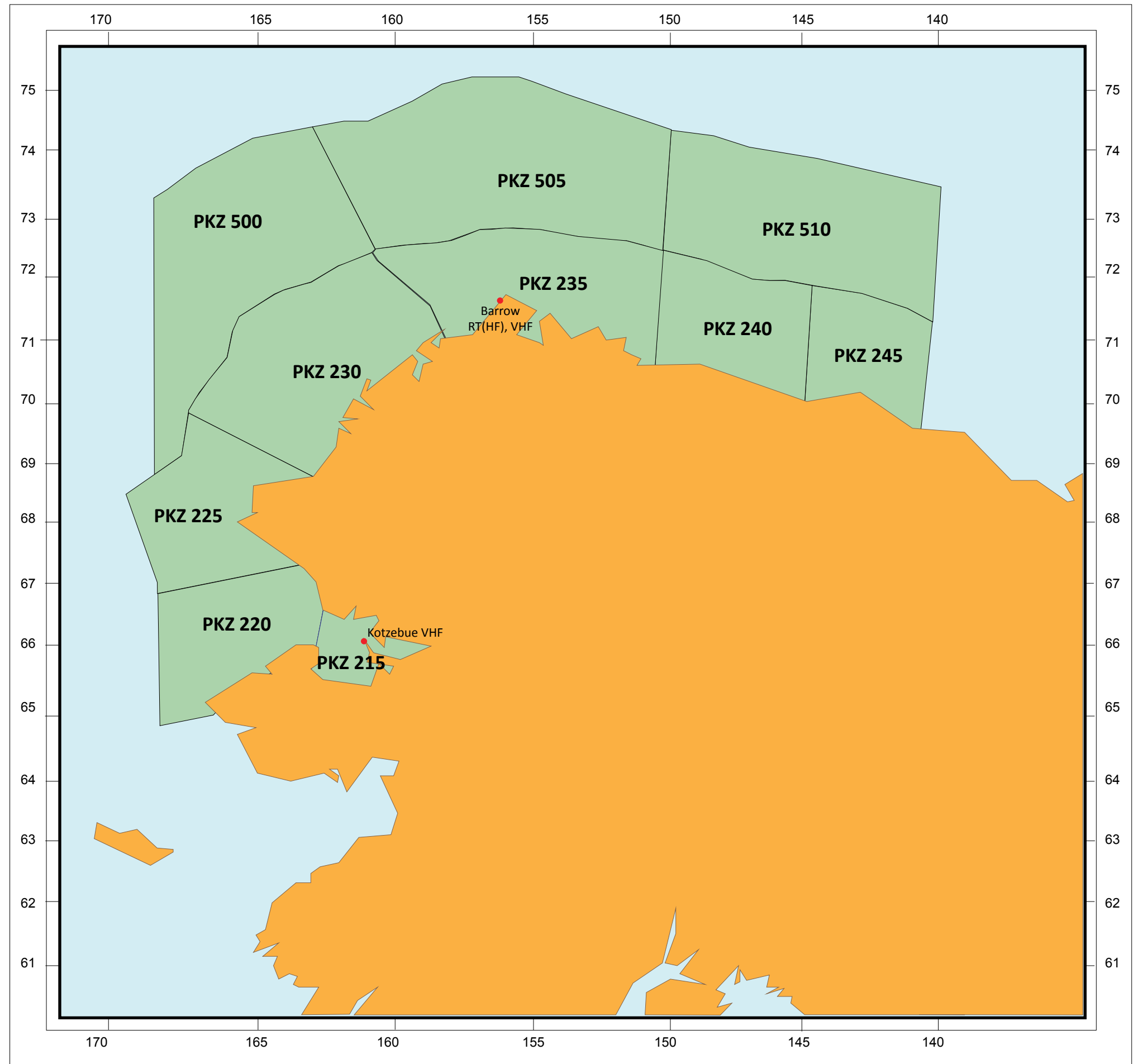
Arctic coast

13 October 2010

### Key:

ID	Area Name
<b>United States of America (Northern Alaska – Arctic coast)</b>	
PKZ215	Kotzebue Sound
PKZ220	Wales to Cape Thompson
PKZ225	Cape Thompson to Cape Beaufort
PKZ230	Cape Beaufort to Point Franklin
PKZ235	Point Franklin to Cape Halkett
PKZ240	Cape Halkett to Flaxman Island
PKZ245	Flaxman Island to Demarcation Point
PKZ505	Western US Arctic Offshore (Navigation Season) (On trial)
PKZ500	Central US Arctic Offshore (Navigation Season) (On trial)
PKZ510	Eastern US Arctic Offshore (Navigation Season) (On trial)

• Maritime Radio Stations



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**UNITED STATES OF AMERICA (ALASKA)****Juneau (USCG)****Position:** 58°18'33"N 134°25'21"W**Call Sign:** NMJ1**METAREA:** XII**Area Covered:** Coastal waters of Alaska.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	<b>A</b>	Ch 22A		Yakutat	59°31'N 139°46'W	
VHF	<b>B</b>	Ch 22A		Althorp Peak	58°05'N 136°24'W	
VHF	<b>C</b>	Ch 22A		Mt. Robert Barron	58°14'N 134°50'W	
VHF	<b>D</b>	Ch 22A		Cape Farnshaw	57°12'N 133°28'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0203, 1403	<b>A, D</b>	Gale warnings, synopsis and forecast for Areas 11-13, 21, 22, 31-36 and 41-43.	
0303, 1503	<b>C</b>	Gale warnings, synopsis and forecast for Areas 11-13, 21, 22, 31-36 and 41-43.	
0403, 1433	<b>B</b>	Gale warnings, synopsis and forecast for Areas 11-13, 21, 22, 31-36 and 41-43.	
On receipt	<b>A-D</b>	Gale warnings for areas 11-13, 21, 22, 31-36 and 41-43.	

**UNITED STATES OF AMERICA (ALASKA)**

**Ketchikan (USCG)**

**Position:** 58°18'33"N 134°25'21"W

**Call Sign:** NMJ2

**METAREA:** XII

**Area Covered:** Coastal waters of Alaska.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	<b>A</b>	Ch 22A		Zarembo I.	56°21'N 132°52'W	
VHF	<b>B</b>	Ch 22A		Cape Decision	56°00'N 134°08'W	
VHF	<b>C</b>	Ch 22A		Gravina I.	55°22'N 131°48'W	
VHF	<b>D</b>	Ch 22A		Sukkwan I.	55°06'N 132°46'W	
VHF	<b>E</b>	Ch 22A		Mary I.	55°05'N 131°13'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0215, 1415	<b>A, D</b>	Gale warnings, synopsis and forecast for Areas 11-13, 21, 22, 31-36 and 41-43, 51-53, 120, 121, 125-129. Navigational warnings: Local warnings.	
0233, 1433	<b>B, E</b>	Gale warnings, synopsis and forecast for Areas 11-13, 21, 22, 31-36 and 41-43, 51-53, 120, 121, 125-129. Navigational warnings: Local warnings.	
0315, 1515	<b>C</b>	Gale warnings, synopsis and forecast for Areas 11-13, 21, 22, 31-36 and 41-43, 51-53, 120, 121, 125-129. Navigational warnings: Local warnings.	
On receipt	<b>A-E</b>	Gale warnings for areas 11-13, 21, 22, 31-36 and 41-43, 51-53, 120, 121, 125-129. Navigational warnings: Local warnings.	

**UNITED STATES OF AMERICA (ALASKA)**

**Kodiak (USCG)**

**Position:** 57°47'15"N 152°24'13"W

**Call Sign:** NOJ

**METAREA:** XII

**Area Covered:** Coastal waters of Alaska - East Pacific

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	<b>A</b>	6 501 kHz				
VHF	<b>B</b>	Ch 22A		Tuklung Mt.	58°51'N 159°27'W	
VHF	<b>C</b>	Ch 22A		Sitkinak Dome	56°33'N 154°10'W	
VHF	<b>D</b>	Ch 22A		Cape Gull	58°13'N 154°09'W	
VHF	<b>E</b>	Ch 22A		Pillar Mt.	57°47'N 152°27'W	
VHF	<b>F</b>	Ch 22A		Narrow Cape	57°26'N 152°25'W	
VHF	<b>G</b>	Ch 22A		Diamond Ridge	59°42'N 151°34'W	
VHF	<b>H</b>	Ch 22A		Site Summit	61°15'N 149°32'W	
VHF	<b>I</b>	Ch 22A		Rugged Island	59°51'N 149°22'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0130, 1430	<b>D, E, G</b>		
0203, 1645	<b>A</b>	Offshore forecast for Gulf of Alaska and Bering Sea and high seas forecast for Pacific. Navigational warnings: Tsunami watch / warning for Alaska and west coast of United States.	
0230, 1800	<b>B, H</b>		
0530, 1600	<b>G, I</b>		
On receipt	<b>A-I</b>	Gale and strom warnings.	

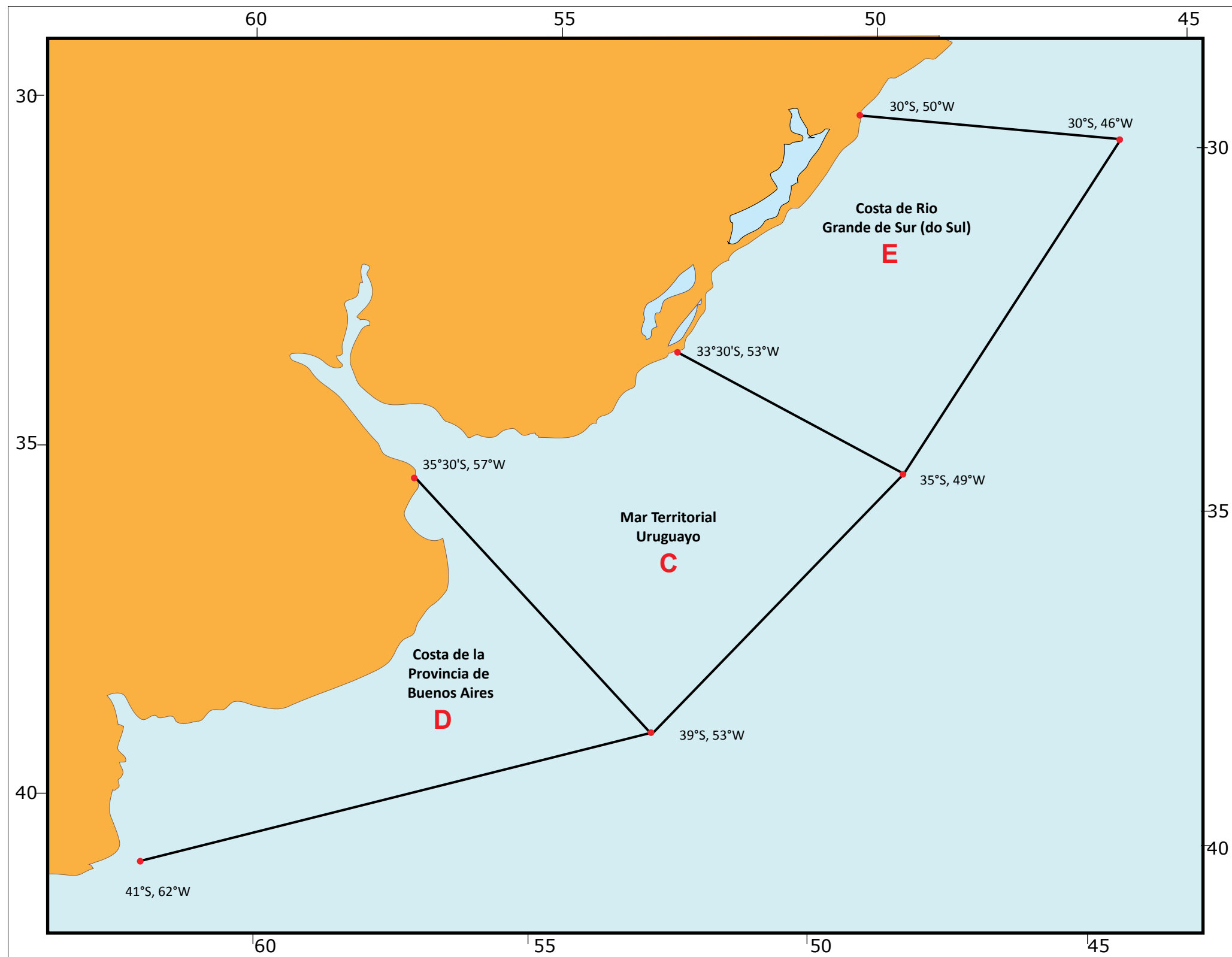
**UNITED STATES OF AMERICA (ALASKA)****Valdez (USCG)****Position:** 61°07'50"N 146°20'57"W**Call Sign:** NMJ3**METAREA:** XII**Area Covered:** Coastal waters of Alaska.

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	<b>A</b>	Ch 22A		Point Pigot	60°49'N 148°21'W	
VHF	<b>B</b>	Ch 22A		Naked Island	60°38'N 147°20'W	
VHF	<b>C</b>	Ch 22A		Valdez	61°08'N 146°16'W	
VHF	<b>D</b>	Ch 22A		Boswell Bay	60°24'N 146°06'W	
VHF	<b>E</b>	Ch 22A		Cape Yakataga	60°04'N 142°25'W	

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0115, 0715, 1315, 2115	<b>B, C, E</b>	Gale warnings, synopsis and forecast for Areas 51-53, 120, 121 and 125-129. Navigational warnings: Local warnings.	
0133, 0733, 1333, 2133	<b>A, D</b>	Gale warnings, synopsis and forecast for Areas 51-53, 120, 121 and 125-129. Navigational warnings: Local warnings.	
On receipt	<b>A-E</b>	Gale warnings for areas 51-53, 120, 121 and 125-129. Navigational warnings: Local warnings.	

# URUGUAY

Weather Forecast Areas



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**UNITED STATES OF AMERICA (HAWAII)****Honolulu (USCG)****Position:** 21°26'00"N 158°09'00"W**Call Sign:** NMO**METAREA:** XII**Area Covered:** East Pacific

- (a) Coastal waters out to 100 miles from Hawaiian Islands and inter-island channels
- (b) Offshore waters within 1000 miles of Hawaiian Islands
- (c) North Pacific; Equator - 50°N, 140°W - 160°E
- (d) South Pacific; Equator - 25°S, 110°W - 160°E

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (HF)	<b>A</b>	6 501 kHz				
RT (HF)	<b>B</b>	8 764 kHz				
RT (HF)	<b>C</b>	13 089 kHz				
VHF	<b>D</b>	Ch 22A				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0005, 1800	<b>B, C</b>	Gale warnings, synopsis, forecast for Pacific High Seas Forecast Areas. Coastal waters forecast up to 40 n miles. Offshore forecasts beyond 40 n miles out to 240 n miles. Tsunami Watch / Warning for Central Pacific, whilst in force. Navigational warnings: Maritime Safety Information.	
0500, 0900, 1700, 2100	<b>D</b>	Navigational warnings: Local navigational warnings for the Hawaiian Islands.	
0500, 1700	<b>D</b>	Gale warnings, synopsis, forecast for Pacific High Seas Forecast Areas. Coastal waters forecast up to 40 n miles. Offshore forecasts beyond 40 n miles out to 240 n miles. Tsunami Watch / Warning for Central Pacific, whilst in force.	
0600, 1200	<b>A, B</b>	Gale warnings, synopsis, forecast for Pacific High Seas Forecast Areas. Coastal waters forecast up to 40 n miles. Offshore forecasts beyond 40 n miles out to 240 n miles. Tsunami Watch / Warning for Central Pacific, whilst in force. Navigational warnings: Maritime Safety Information.	
On receipt	<b>D</b>	Gale warnings. Navigational warnings: Urgent navigational warnings.	

NOTE:  
Radio-Telex and RT (HF) broadcasts are remotely controlled from CAMSPAC (Point Reyes).

**URUGUAY**

**Atlántida (PREFECTURA)**

**Position:** 34°46'45"S 055°45'34"W

**Call Sign:** CWC43

**METAREA:** V

**Area Covered:** -

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 15				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0533, 1333, 1933	A		

**URUGUAY**

**Carmelo (PREFECTURA)**

**Position:** 33°59'00"S 058°17'00"W  
**Call Sign:** --

**METAREA:** V

**Area Covered:** -

Watch hours on Ch70

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
VHF	A	Ch 15				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0300, 1503, 2133	A		

**URUGUAY****Colonia (PREFECTURA)****Position:** 34°28'00"S 057°50'00"W**Call Sign:** --**METAREA:** V**Area Covered:** -

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 15				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0333, 1333, 2103	A	Weather bulletins.	

**URUGUAY**

**Fray Bentos (PREFECTURA)**

**Position:** 33°08'00"S 058°18'00"W

**Call Sign:** CWC25

**METAREA:** V

**Area Covered:** -

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 15				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0200, 0800, 1400, 2000	A	Weather bulletins.	

**URUGUAY****La Paloma****Position:** 34°39'00"S 054°10'00"W**Call Sign:** CWC30**METAREA:** V**Area Covered:** -

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	<b>A</b>	Ch 15				
RT (MF)	<b>B</b>	2 722.1 kHz				
RT (HF)	<b>C</b>	4 146 kHz				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0600, 1200, 1900	<b>A-C</b>	Weather bulletins.	

**URUGUAY****Montevideo (PREFECTURA)****Position:** 34°54'10"S 056°11'07"W**Call Sign:** CXF**METAREA:** V**Area Covered:** -

Watch hours on: 2187.5 kHz (MF)

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 15				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0103, 1133, 1903	A	Weather bulletins.	

**URUGUAY****Nueva Palmira (PREFECTURA)****Position:** 33°53'00"S 058°25'00"W**Call Sign:** CWC31**METAREA:** V**Area Covered:** -

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 15				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0333, 1033, 1500, 1803, 2100	A	Weather bulletins.	



**URUGUAY****Paysandú (PREFECTURA)****Position:** 32°18'40"S 058°04'32"W**Call Sign:** CWC32**METAREA:** V**Area Covered:** -

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 15				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0300, 0903, 2103	A	Weather bulletins.	

**URUGUAY****Piriápolis (PREFECTURA)****Position:** 34°51'47"S 055°16'22"W**Call Sign:** CWC33**METAREA:** V**Area Covered:** -

Watch hours on Ch70

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 15				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0703, 1333, 2103	A	Weather bulletins.	

**URUGUAY**

**Puerto Sauce (PREFECTURA)**

**Position:** 34°25'16"S 057°26'54"W

**Call Sign:** CWC27

**METAREA:** V

**Area Covered:** -

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0133, 1303, 1933	<b>A</b>	Weather bulletins. Navigational warnings.	

**URUGUAY****Punta Carretas****Position:** 34°55'42"S 056°09'36"W**Call Sign:** CWF**METAREA:** V**Area Covered:**

Mode Of Transmission	ID	Frequency	Area	Remote Transmitting Site	Position	Hours of Operation
RT (MF)	<b>A</b>	2 768.5				
RT (HF)	<b>B</b>	22 636.3				
RT (HF)	<b>B</b>	17 260.8				
RT (HF)	<b>B</b>	13 128.7				
RT (HF)	<b>B</b>	8 291.1				
RT (HF)	<b>B</b>	6 518.8				
RT (HF)	<b>B</b>	4 357.4				

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0003, 1403, 2103	<b>A, B</b>	Weather bulletins for all areas. Navigational warnings: For Uruguayan coastal waters, Río de la Plata and Río Uruguay (Spanish only).	Spanish, English

**URUGUAY****Punta del Este (PREFECTURA)****Position:** 34°58'00"S 054°57'00"W**Call Sign:** CWC34**METAREA:** V**Area Covered:** -

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	<b>A</b>	Ch 15				
RT (MF)	<b>B</b>	2 722.1 kHz				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0133, 1503, 2133	<b>A, B</b>	Weather bulletins.	

**URUGUAY****Rio Branco (PREFECTURA)****Position:** 32°35'50"S 053°23'00"W**Call Sign:** CWC36**METAREA:** V**Area Covered:** -

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	<b>A</b>	Ch 15				
RT (MF)	<b>B</b>	2 722.1 kHz				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0933, 1703, 2333	<b>A,B</b>	Weather bulletins.	

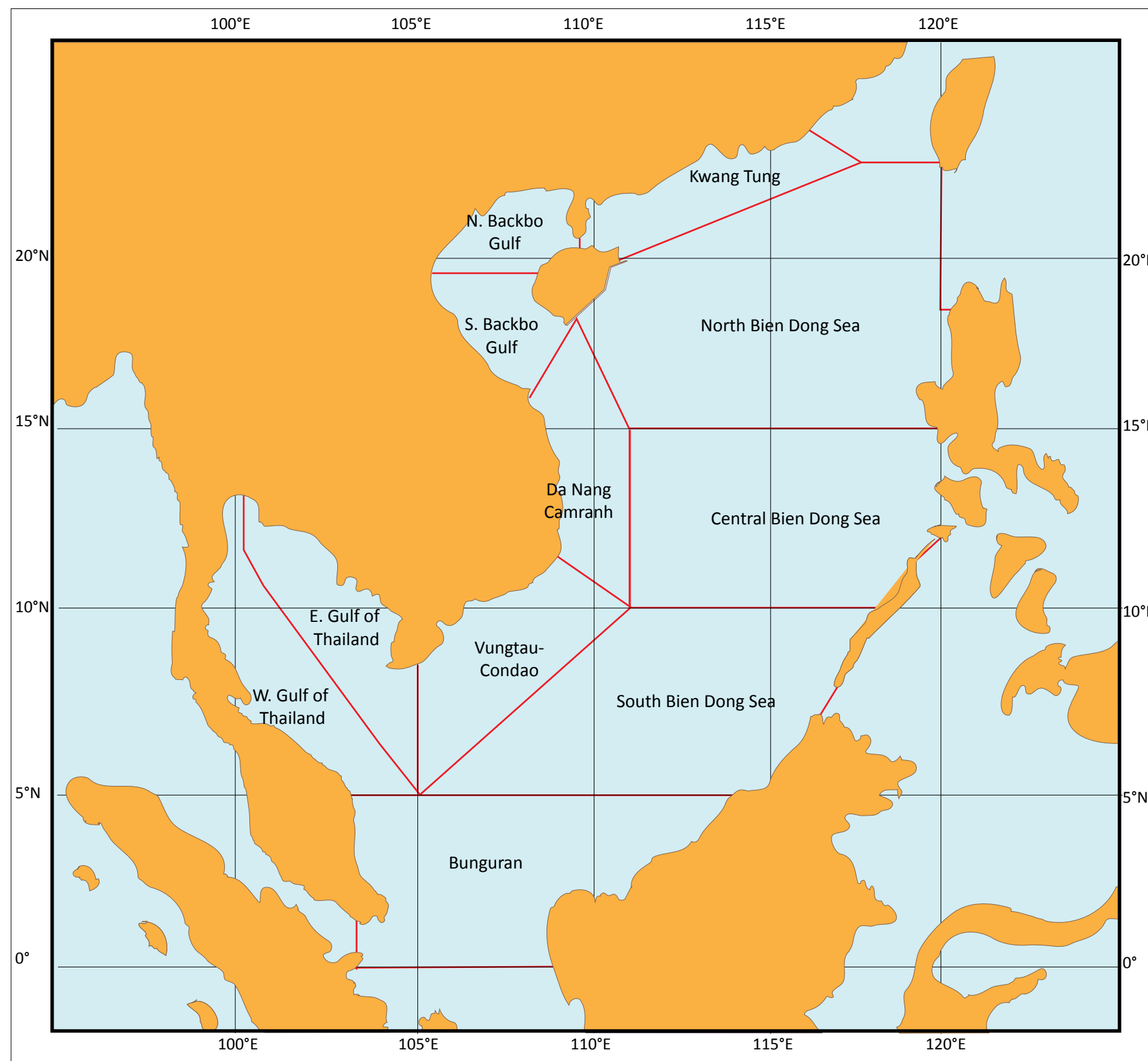
**URUGUAY****Salto (PREFECTURA)****Position:** 31°23'00"S 057°57'00"W**Call Sign:** CWC37**METAREA:** V**Area Covered:** -

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
VHF	A	Ch 15				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0505, 1105, 1705, 2305	A	Weather bulletins.	

# VIET NAM

Forecast Areas



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**VIET NAM****Da Nang Radio****Position:** 16°07'56"N 108°15'06"E**Call Sign:** XVT**METAREA:** XI**Area Covered:**

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (HF)	A	8 294 kHz				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0030, 1230	A	Weather bulletins.	Vietnamese

**VIET NAM****Hai Phong Radio****Position:** 20°47'50"N 106°42'54"E**Call Sign:** XVG**METAREA:** XI**Area Covered:**

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (HF)	A	8 294 kHz				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0100, 1300	A	Weather bulletins.	Vietnamese
Every odd H+00	A	Storm warnings.	Vietnamese

**VIET NAM****Ho Chi Minh Radio****Position:** 10°21'29"N 107°04'15"E**Call Sign:** XVS**METAREA:** XI**Area Covered:**

Watch hours on: Ch70 (VHF)/2187.5 kHz (MF)

<b>Mode Of Transmission</b>	<b>ID</b>	<b>Frequency</b>	<b>Area</b>	<b>Remote Transmitting Site</b>	<b>Position</b>	<b>Hours of Operation</b>
RT (HF)	A	8 294 kHz				

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0200, 1200	A	Weather bulletins.	Vietnamese
Every even H+00	A	Storm warnings.	Vietnamese



# PART C

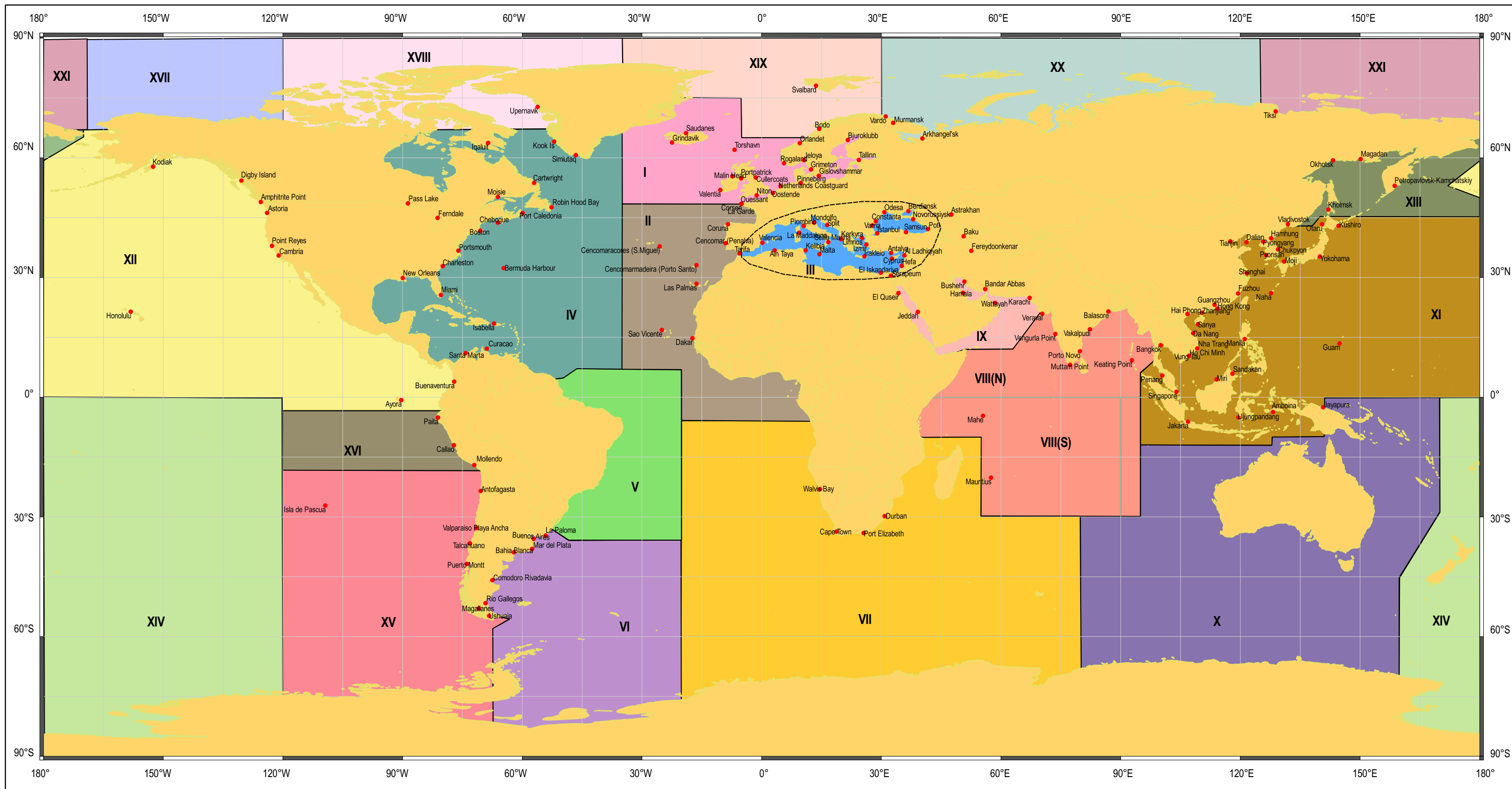
## NAVTEX STATIONS

*Navigation telex - an international service that provides navigational and meteorological warnings and forecasts*



# NAVTEX Stations

## Updated: 25/04/2019



**DESIGNATIONS USED:**

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**ALGERIA****Ain Taya Radio****Region:** I**METAREA:** III**Position:** 36°48'23"N 003°15'63"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[K]		490 kHz	200
MSI	[B]		518 kHz	200

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0010,0410,0810,1210,1610,2010	[B]	English	
0140,0540,0940,1340,1740,2140	[K]	English	

**ARGENTINA****Bahía Blanca (PREFECTURA NAVAL)****Region:** III**METAREA:** VI**Position:** 38°52'00"S 062°06'00"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[D]		490 kHz	280
MSI	[P]		518 kHz	280

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0030,0430,0830,1230,1630,2030	[D]	Spanish	
0230, 1030, 1830	[P]	Spanish	Local weather bulletin.
0630, 1430, 2230	[P]	English	Local weather bulletin.

**ARGENTINA****Buenos Aires (PREFECTURA NAVAL)****Region:** III**METAREA:** VI**Position:** 35°29'00"S 057°10'00"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[F]		490 kHz	280
MSI	[R]		518 kHz	280

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0050,0450,0850,1250,1650,2050	[F]	Spanish	
0250, 1050, 1850	[R]	Spanish	Local weather bulletin for Area I.
0650, 1450, 2250	[R]		Local weather bulletin for Area I.

**ARGENTINA****Comodoro Rivadavia (PREFECTURA NAVAL)****Region:** III**METAREA:** VI**Position:** 45°50'50"S 067°28'40"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[C]		490 kHz	280
MSI	[O]		518 kHz	280

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0020,0420,0820,1220,1620,2020	[C]	Spanish	Local weather bulletin. Navigational warnings: Local navigational warnings.
0220,0620,1020,1420,1820,2220	[O]	English	Local weather bulletin. Local warnings.

**ARGENTINA****Mar del Plata (PREFECTURA NAVAL)****Region:** III**METAREA:** VI**Position:** 38°03'00"S 057°32'00"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[E]		490 kHz	280
MSI	[Q]		518 kHz	280

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0040,0440,0840,1240,1640,2040	[E]	Spanish	
0240,0640,1040,1440,1840,2240	[Q]	English	Weather bulletin.

**ARGENTINA****Rio Gallegos (PREFECTURA NAVAL)****Region:** III**METAREA:** VI**Position:** 51°37'00"S 069°12'00"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[B]		490 kHz	280
MSI	[N]		518 kHz	280

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0010,0410,0810,1210,1610,2010	[B]	Spanish	Local weather bulletin. Navigational warnings: Local navigational warnings and water level reports.
0210,0610,1010,1410,1810,2210	[N]	English	Local weather bulletin.

**ARGENTINA****Ushuaia (PREFECTURA NAVAL)****Region:** III**METAREA:** VI**Position:** 54°48'00"S 068°18'00"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[A]		490 kHz	280
MSI	[M]		518 kHz	280

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0000,0400,0800,1200,1600,2000	[A]	Spanish	Local weather bulletin. Navigational warnings: Local navigational warnings.
0600, 1400, 2200	[M]	English	Local weather bulletin.

**AZERBAIJAN****Baku (Chilov)****Region:** VI**METAREA:** III**Position:** 40°19'63"N 050°36'74"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[M]		490 kHz	200
MSI	[R]		518 kHz	200

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0200,0600,1000,1400,1800,2200	[M]	Azerbaijan	
0250,0650,1050,1450,1850,2250	[R]	English	



**BAHRAIN**

Hamala

**Region:** II**METAREA:** IX**Position:** 26°09'53"N 050°28'35"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[B]		518 kHz	300

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0010, 0410, 0810, 1210, 1610, 2010	[B]	English	Warnings: For Persian Gulf and approaches.
0410, 1610	[B]	English	Synopsis and 24 hour forecast for Persian Gulf, Strait of Hormuz and Gulf of Oman.

**BELGIUM****Oostende****Region:** VI**METAREA:** I**Position:** 51°10'95"N 002°48'47"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[B]		490 kHz	55
MSI	[T]		518 kHz	55

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0010,0410,0810,1210,1610,2010	[B]	Dutch	
0310, 0710, 1110, 1510, 1910, 2310	[T]	English	Gale warnings for Areas Dover and Thames. Baltic Ice Code for Netherlands Area Group GG.
0710, 1910	[T]	English	Weather forecast for areas Dover, Thames.

**BELGIUM****Oostende (Thames Approaches broadcast for United Kingdom)****Region:** VI**METAREA:** I**Position:** 51°10'95"N 002°48'47"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[V]		518 kHz	150

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0330,0730,1130,1530,1930,2330	[V]	English	

**BERMUDA****Bermuda Harbour****Region:** IV**METAREA:** IV**Position:** 32°21'07"N 064°39'46"W

	Mode Of Transmission	ID SLOT		Frequency	Range
		International	National		
	MSI	[B]		518 kHz	280

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0010,0410,0810,1210,1610,2010	[B]	English	Latest urgent weather and tropical weather warnings for METAREA IV. Forecast for Southwest North Atlantic, S of 31°N, W of 65°W and Local Bermuda Area Forecast. Tropical weather warnings are included during 1 June to 30 November when the event concerned is within the boundaries 18°N to 42°N and 50°W to 80°W. Local inshore and offshore warnings.

**BRAZIL**

**Brazilian MMS**

**Region:** III  
**METAREA:** V  
**Position:** --

Although Brazilian MMS does not operate NAVTEX stations, the Maritime Safety Information (MSI) produced for METAREA V is transmitted, on request, to mariners who are i

**BULGARIA****Varna Radio****Region:** VI**METAREA:** III**Position:** 43°04'01"N 027°47'19"E

Also broadcast information for Romania.

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[J]		518 kHz	350

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0130, 0530, 0930, 1330, 1730, 2130	[J]	Bulgarian, English	Warnings for central part of western region of Black Sea, Area J (Juliect).
0530, 1730	[J]	Bulgarian, English	Storm warnings, weather summary, 12 hour forecast for coastal waters of Bulgaria and central western region of Black Sea, Area 2.

**CABO VERDE****Sao Vicente Radio****Region:** I**METAREA:** II**Position:** 16°51'24"N 025°00'14"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[P]		490 kHz	250
MSI	[U]		518 kHz	250

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0230,0630,1030,1430,1830,2230	[P]	Portuguese	
0320,0720,1120,1520,1920,2320	[U]	English	

**CANADA****Amphitrite Point (controlled by Prince Rupert MCTS)****Region:** IV**METAREA:** XII**Position:** 48°55'28"N 125°32'38"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[H]		518 kHz (F1B)	300

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0110, 1310	[H]	English	Offshore Notices to Shipping.
0510, 1710	[H]	English	Marine forecast 1, 5, 6, 7. Ocean Buoy Reports: South Nomad, South Brooks, La Perouse Bank, East Dellwood.
0910, 2110	[H]	English	Marine forecast areas 1, 5, 6, 7. Ocean Buoy Reports: South Nomad, South Brooks, La Perouse Bank, East Dellwood.



**CANADA****Cartwright (controlled by Labrador MCTS)****Region:** IV**METAREA:** IV**Position:** 53°42'52"N 057°01'35"W

	Mode Of Transmission	ID SLOT		Frequency	Range
		International	National		
	MSI	[X]		518 kHz (F1B)	300

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0350, 0750, 1550, 1950	[X]	English	Weather
1150	[X]	English	Notices to Shipping.
2350	[X]	English	NOTSHIPS (summer) Ice (winter).

**CANADA****Chebogue (controlled by Halifax MCTS)****Region:** IV**METAREA:** IV**Position:** 43°44'65"N 066°07'32"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[V]		490 kHz (F1B)	300
MSI	[U]		518 kHz (F1B)	300

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0320, 1520	[U]	English	Notices to Shipping.
0330, 1530	[V]	French	Notices to Shipping.
0720, 1920	[U]	English	Weather and wave height forecasts for marine areas 201 to 208. U.S. weather forecasts for Coastal Waters (Eastport to Schoodic Point, Maine).
0730, 1930	[V]	French	Weather and wave height forecasts for marine areas 201 to 208.
1120, 2320	[U]	English	Weather and seastate forecasts for marine areas 201 to 208. U.S. weather forecasts for Coastal Waters (Eastport to Schoodic Point, Maine).
1130, 2330	[V]	French	Weather and seastate forecasts for marine areas 201 to 208.

**CANADA****Digby Island (controlled by Prince Rupert MCTS)****Region:** IV**METAREA:** XII**Position:** 54°18'05"N 130°24'17"W

	Mode Of Transmission	ID SLOT		Frequency	Range
		International	National		
	MSI	[D]		518 kHz	300

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0030, 1230	[D]	English	Marine forecast areas 2, 3, 4. Ocean Buoy Reports: North Nomad, Middle Nomad, West Dixon Entrance, West Moresby, South Moresby.
0430, 1630	[D]	English	Marine forecast areas 2, 3, 4. Ocean Buoy Reports: North Nomad, Middle Nomad, West Dixon Entrance, West Moresby, South Moresby.
0830, 2030	[D]	English	Offshore Notices to Shipping.

**CANADA****Ferndale (controlled by Prescott MCTS)****Region:** IV**METAREA:** IV**Position:** 44°56'22"N 081°14'00"W

	Mode Of Transmission	ID SLOT		Frequency	Range
		International	National		
	MSI	[H]		518 kHz (F1B)	300

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0110, 1310	[H]	English	Notices to Shipping. Ice (during ice season).
0510, 1710	[H]	English	Weather.
0910, 2110	[H]	English	Weather.

**CANADA**

**Iqaluit, Nunavut (MCTS)**

**Region:** IV  
**METAREA:** XVII, XVIII  
**Position:** 63°43'82"N 068°32'70"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[S]		490 kHz (F1B)	300
MSI	[T]		518 kHz (F1B)	300

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0300, 1500	[S]	French	Weather forecasts for marine areas 143, 144, 145, 147, 148, 149 and 150.
0310, 1510	[T]	English	Weather forecasts for marine areas 143, 144, 145, 147, 148, 149 and 150.
0700, 1900	[S]	French	Safety Notices to Shipping "Series A" for NORDREG waters bound by marine areas 143, 144, 145, 147, 148, 149 and 150. Ice hazard bulletin for marine areas 143, 144, 145, 147, 148, 149 and 150.
0710, 1910	[T]	English	Safety Notices to Shipping for "Series A" for NORDREG waters bound by marine areas 143, 144, 145, 147, 148, 149 and 150. Ice hazard bulletin for marine areas 143, 144, 145, 147, 148, 149 and 150.
1100, 2300	[S]	French	Weather forecast for marine areas 143, 144, 145, 147, 148, 149 and 150.
1110, 2310	[T]	English	Weather forecast for marine areas 143, 144, 145, 147, 148, 149 and 150.

**CANADA**

**Moisie (controlled by Les Escoumins MCTS)**

**Region:** IV  
**METAREA:** IV  
**Position:** 50°11'75"N 066°06'74"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[D]		490 kHz (F1B)	300
MSI	[C]		518 kHz (F1B)	300

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0020	[C]	English	Marine forecasts for areas: 215, 217 to 222, 301 to 304 and 313. Note: Marine forecasts are replaced by ice information during ice season only.
0030	[D]	French	Marine forecasts for areas: 215, 217 to 222, 301 to 304 and 313. Note: Marine forecasts are replaced by ice information during ice season only.
0420, 1620	[C]	English	Notices to Shipping.
0430, 1630	[D]	French	Notices to Shipping.
0820, 2020	[C]	English	Marine forecasts for marine areas 215, 217 to 222, 301 to 304 and 313.
0830, 2030	[D]	French	Marine forecasts for marine area 215, 217 to 222, 301 to 304 and 313.
1220	[C]	English	Weather forecasts for marine areas 215, 217 to 222, 301 to 304 and 313.
1230	[D]	French	Weather forecasts for marine areas 215, 217 to 222, 301 to 304 and 313.

**CANADA****Pass Lake (controlled by Sarnia MCTS)****Region:** IV**METAREA:** IV**Position:** 48°33'80"N 088°39'37"W

	Mode Of Transmission	ID SLOT		Frequency	Range
		International	National		
	MSI	[P]		518 kHz (F1B)	300

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0230, 1430	[P]	English	Weather.
0630, 1830	[P]	English	Notices to Shipping. Ice (during ice season).
1030, 2230	[P]	English	Weather.

**CANADA****Port Caledonia (controlled by Sydney MCTS)****Region:** IV**METAREA:** IV**Position:** 46°11'15"N 059°53'77"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[J]		490 kHz (F1B)	300
MSI	[Q]		518 kHz (F1B)	300

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0051,0451,0851,1251,1651,2051	[J]	French	
0130	[J]	French	Weather (Ice only in winter).
0240, 1440	[Q]	English	Notices to Shipping.
0255, 1455	[J]	French	Notices to Shipping.
0530, 1730	[J]	French	Weather
0640, 1840	[Q]	English	Marine forecast.
0930	[J]	French	Weather.
1040	[Q]	English	Weather.
1330	[J]	French	Notices to Shipping.
2130	[J]	French	Notices to Shipping.
2240	[Q]	English	Weather (Ice only in winter).
2240 (summer only)	[Q]	English	Weather forecasts for areas 209-219, 231.
2240 (winter only)	[Q]	English	Ice bulletins for Areas 16-23.
2255 (winter only)	[J]	French	Ice bulletins for Areas 16-23.



**CANADA****Robin Hood Bay (controlled by Placentia MCTS)****Region:** IV**METAREA:** IV**Position:** 47°36'65"N 052°40'18"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[O]		518 kHz (F1B)	300

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0220	[O]	English	Weather
0620	[O]	English	Weather (Notices to Shipping only in winter).
1020	[O]	English	Weather (Notices to Shipping only in summer).
1420	[O]	English	Weather
1820	[O]	English	Weather and wave height forecasts (summer) Ice (winter).
2220	[O]	English	Weather (winter) Notices to Shipping/Ice (summer).

**CHILE****Antofagasta Zonal****Region:** III**METAREA:** XV**Position:** 23°29'47"S 070°25'39"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[G]		490 kHz	400
MSI	[A]		518 kHz	400

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0000,0400,0800,1200,1600,2000	[A]	English	Storm warnings, and forecast for Areas 1-3.
0100,0500,0900,1300,1700,2100	[G]	Spanish	Storm warnings, and forecast for Areas 1-3.

**CHILE****Isla de Pascua (Easter Island)****Region:** III**METAREA:** XV**Position:** 27°08'85"S 109°22'61"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[L]		490 kHz	400
MSI	[F]		518 kHz	400

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0050,0450,0850,1250,1650,2050	[F]	English	Storm warnings, and forecast for Isla de Pascua.
0150,0550,0950,1350,1750,2150	[L]	Spanish	Storm warnings, and forecast for Isla de Pascua. In .

**CHILE****Magallanes****Region:** III**METAREA:** XV**Position:** 52°55'70"S 070°53'42"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[E]		490 kHz	400
MSI		[K]	490 kHz	400

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0040, 0840, 1640	[E]	English	Storm warnings, and forecast for Areas 6-8. Ice reports when situation so requires.
0040,0440,0840,1240,1640,2040	[E]	English	Storm warnings, and forecast for Areas 6-8. Ice reports when situation so requires.
0140,0540,0940,1340,1740,2140	[K]	Spanish	

**CHILE****Puerto Montt Zonal Radio****Region:** III**METAREA:** XV**Position:** 41°47'06"S 073°52'75"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[J]		490 kHz	400
MSI	[D]		518 kHz	400

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0030,0430,0830,1230,1630,2030	[D]	English	Storm warnings and forecasts for areas 4-8. NURNAV. Ice reports when required.
0051,0451,0851,1251,1651,2051	[J]	Spanish	

**CHILE****Talcahuano Zonal Radio**

**Region:** III  
**METAREA:** XV  
**Position:** 36°37'75"S 073°07'01"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[I]		518 kHz	400
MSI	[C]		518 kHz	400

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0020,0420,0820,1220,1620,2020	[C]	English	Storm warnings, and forecast for Areas 3-5.
0120,0530,0930,1320,1720,2120	[I]	Spanish	Storm warnings, and forecast for Areas 3-5.

**CHILE****Valparaiso Playa Ancha (Radio Centro de Telecomunicaciones Maritimas)****Region:** III**METAREA:** XV**Position:** 32°48'37"S 071°29'23"W

Watch hours on Ch70

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[H]		490 kHz	400
MSI	[B]		518 kHz	400

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0010,0410,0810,1210,1610,2010	[B]	English	Storm warnings, and weather forecast.
0017,0417,0817,1217,1617,2017	[H]	Spanish	Storm warnings, and weather forecast.

**CHINA****Dalian****Region:** II**METAREA:** XI**Position:** 38°50'69"N 121°31'09"E

[F] is under trial. Transmits on 486 kHz (Note: 486 kHz is a local frequency, not a GMDSS frequency allocated for national broadcasts).

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[F]		490 kHz	250
MSI	[R]		518 kHz	250

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0050,0450,0850,1250,1650,2050	[F]	Chinese	
0250, 0650, 1050, 1450, 2250	[R]	English, Chinese	Storm Warnings.
0250, 1050	[R]	English, Chinese	Gale warnings, situation, 24 hour forecast for areas 1-4.
0650, 1450, 2250	[R]	English, Chinese	For Areas 1-4.



**CHINA****Fuzhou****Region:** II**METAREA:** XI**Position:** 25°59'96"N 119°26'50"E

[C] is under trial. Transmits on 486 kHz (Note: 486 kHz is a local frequency, not a GMDSS frequency allocated for national broadcasts).

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[C]		490 kHz	250
MSI	[O]		518 kHz	250

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0020,0420,0820,1220,1620,2020	[C]	Chinese	
0220,0620,1020,1420,1820,2220	[O]	English, Chinese	

**CHINA****Guangzhou****Region:** II**METAREA:** XI**Position:** 23°09'56"N 113°30'80"E

[B] is under trial. Transmits on 486 kHz (Note: 486 kHz is a local frequency, not a GMDSS frequency allocated for national broadcasts).

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[G]		4209.5	500
MSI	[B]		490 kHz	250
MSI	[N]		518 kHz	250

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0010,0410,0810,1210,1610,2010	[B]	Chinese	Warnings: For coastal waters of China S of 24°N.
0100,0500,0900,1300,1700,2100	[G]	Chinese	
0210, 0610, 1010, 1410, 2210	[N]	English	Storm Warnings.
0210, 1410	[N]	English	Tropical storm warnings and 24 hour forecast.
0610, 1010, 2210	[N]	EnglishEnglish	Warnings: For coastal waters of China S of 24°N.

**CHINA****Sanya****Region:** II**METAREA:** XI**Position:** 18°17'49"N 109°21'80"E

[A] is under trial. Transmits on 486 kHz (Note: 486 kHz is a local frequency, not a GMDSS frequency allocated for national broadcasts).

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[A]		490 kHz	250
MSI	[M]		518 kHz	250

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0000,0400,0800,1200,1600,2000	[A]	Chinese	
0200, 0600, 1000, 1400, 2200	[M]		

**CHINA****Shanghai****Region:** II**METAREA:** XI**Position:** 31°06'79"N 121°32'79"E

[Q] is under trial. Transmits on 486 kHz (Note: 486 kHz is a local frequency, not a GMDSS frequency allocated for national broadcasts).

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[Q]		4 209.5 kHz	500
MSI	[E]		490 kHz	250
MSI	[Q]		518 kHz	250

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0040,0440,0840,1240,1640,2040	[E]	Chinese	Gale warnings.
0240, 0640, 1040	[Q]	English, Chinese	For coastal waters of China N of 24°N.
0240, 0640, 1040, 1440, 2240	[Q]	English, Chinese	Gale warnings.
0240, 1040	[Q]	English, Chinese	Gale warnings, synopsis for East Asia, 24 hour forecast for Areas 1-14 and Shanghai Harbour.

**CHINA****Tianjin****Region:** II**METAREA:** XI**Position:** 39°02'39"N 117°26'95"E

[S] is under trial. Transmits on 486 kHz (Note: 486 kHz is a local frequency, not a GMDSS frequency allocated for national broadcasts).

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[S]		490 kHz	250

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0300,0700,1100,1500,1900,2300	[S]	Chinese	

**CHINA****Zhanjiang****Region:** II**METAREA:** XI**Position:** 21°09'58"N 110°21'82"E

[D] Transmits on 486 kHz (Note: 486 kHz is a local frequency, not a GMDSS frequency allocated for national broadcasts).

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[D]		490 kHz	250

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0030,0430,0830,1230,1630,2030	[D]	Chinese	

**COLOMBIA****Buenaventura****Region:** III**METAREA:** XII**Position:** 03°54'18"N 077°03'77"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[C]		490 kHz	300
MSI	[O]		518 kHz	300

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0020,0420,0820,1220,1620,2020	[C]	Spanish	
0220,0620,1020,1420,1820,2220	[O]	English	

**COLOMBIA****Santa Marta****Region:** III**METAREA:** XII**Position:** 11°03'33"N 074°13'10"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[K]		490 kHz	300
MSI	[C]		518 kHz	300

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0020,0420,0820,1220,1620,2020	[C]	English	
0140,0540,0940,1340,1740,2140	[K]	Spanish	



**CROATIA****Split (Hvar Is)****Region:** VI**METAREA:** III**Position:** 43°10'54"N 016°25'38"E

	Mode Of Transmission	ID SLOT		Frequency	Range
		International	National		
	MSI	[Q]		518 kHz	200

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0240,0640,1040,1440,1840,2240	[Q]	English	Gale warnings, synopsis and 24 hour forecast for Adriatic Sea and Strait of Otranto.

**CURAÇAO AND BONAIRE (NETHERLANDS ANTILLES)**

Curaçao

**Region:** IV**METAREA:** IV**Position:** 12°10'31"N 068°51'82"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[H]		518 kHz	400

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0110, 0510, 0910, 1310, 1710, 2110	[H]	English	Local warnings for Carribbean.
1310	[H]	English	Gale warnings, synopsis, 24 hour and 48 hour wind forecast, visibility and outlook forecast for Caribbean Sea.

# CYPRUS

NAVTEX forecast areas

12 April 2011



The designations employed and the presentation of material in this publication do not imply the expression of any opinion whatsoever on the part of the Secretariat of WMO concerning the legal status of any country, territory, city or area, or of its authorities, or concerning the delimitation of its frontiers or boundaries.

**CYPRUS****Cyprus Radio****Region:** VI**METAREA:** III**Position:** 34°44'28"N 032°39'52"E

Watch hours on Ch70

	Mode Of Transmission	ID SLOT		Frequency	Range
		International	National		
	MSI	[M]		518 kHz	200

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0200,0600,1000,1400,1800,2200	[M]	English	Gale warnings and forecast for Eastern Mediterranean. Warnings for Eastern Mediterranean.

**DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA****Hamhung****Region:** II**METAREA:** XI**Position:** 39°50'00"N 127°41'02"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[B]		490 kHz	200
MSI	[E]		518 kHz	200

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0010,0410,0810,1210,1610,2010	[B]	Korean	
0040,0440,0840,1240,1640,2040	[E]	English	

**DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA****Pyongyang****Region:** II**METAREA:** XI**Position:** 38°59'58"N 125°42'93"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[A]		490 kHz	200
MSI	[D]		518 kHz	200

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0000,0400,0800,1200,1600,2000	[A]	Korean	
0030,0430,0830,1230,1630,2030	[D]	English	

**DENMARK AND FAROE ISLANDS****Tórshavn Radio (Faeroes)****Region:** VI**METAREA:** I**Position:** 62°00'87"N 006°47'45"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[D]		518 kHz	300

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0030,0430,0830,1230,1630,2030	[D]	English	

**ECUADOR****Ayora****Region:** III**METAREA:** XII**Position:** 00°43'03"S 090°19'63"W

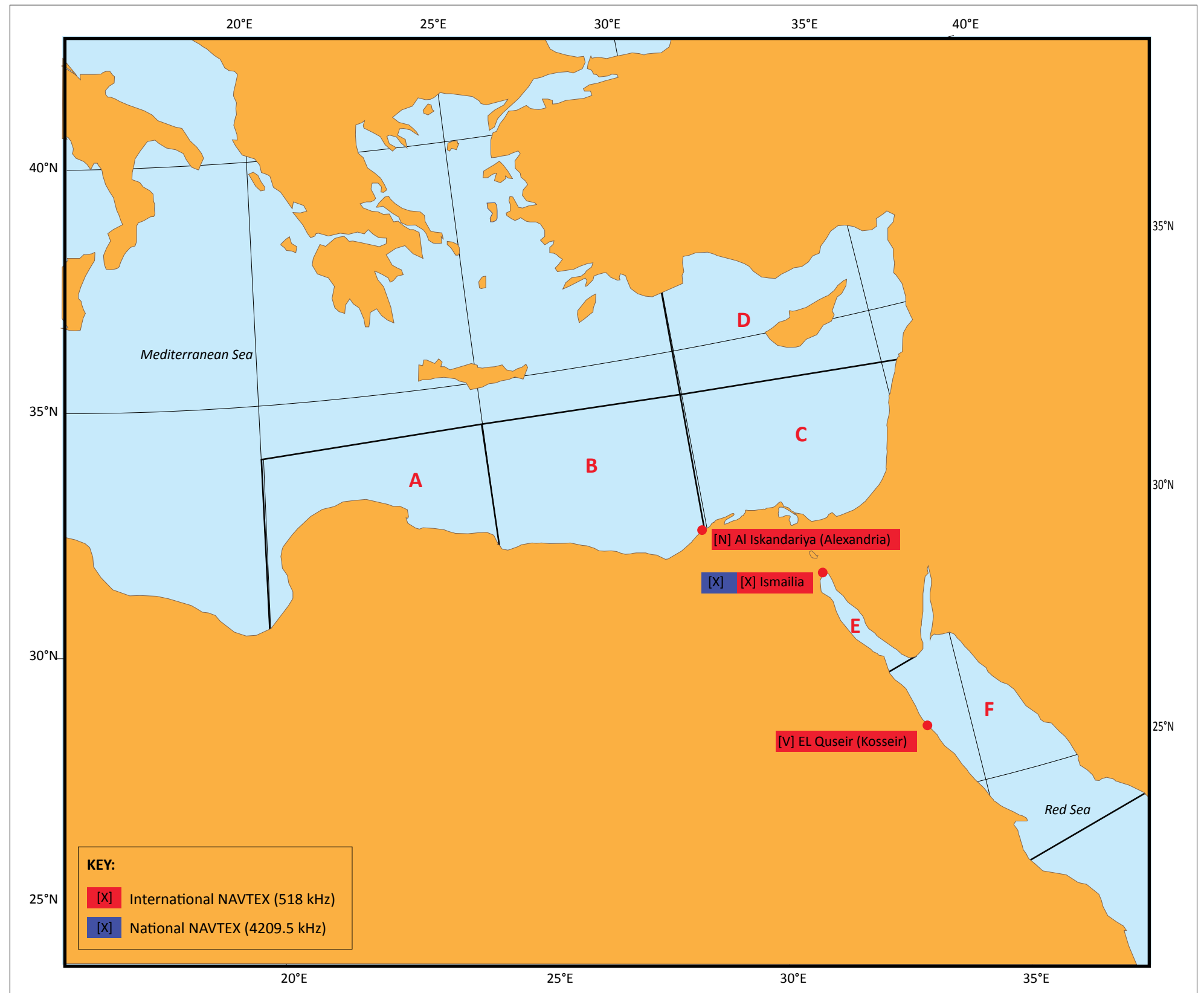
Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[A]		518 kHz	400
MSI	[L]		518 kHz	400

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0000,0400,0800,1200,1600,2000	[A]	Spanish	
0150,0550,0950,1350,1750,2150	[L]	English	



# EGYPT

Forecast Areas  
NAVTEX Stations



The designations employed and the presentation of material in this publication do not imply the expression of any opinion whatsoever on the part of the Secretariat of WMO concerning the legal status of any country, territory, city or area, or of its authorities, or concerning the delimitation of its frontiers or boundaries.

**EGYPT****El Iskandariya (Alexandria)****Region:** I**METAREA:** III**Position:** 31°12'00"N 029°52'00"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[N]		518 kHz	350

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0210, 0610, 1010, 1410, 1810, 2210	[N]	English	
1010, 2210	[N]	English	Storm warnings and 12 hour forecasts for areas A, B, C and D.

**EGYPT**

El Quseir (Kosseir)

**Region:** I**METAREA:** IX**Position:** 26°06'00"N 034°17'00"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[V]		518 kHz	400

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0330, 0730, 1130, 1530, 1930, 2330	[V]	English	
0330, 1530	[V]	English	Weather forecast for aras E and F.

**EGYPT****Serapeum (Ismailia)****Region:** I**METAREA:** IX**Position:** 30°28'00"N 032°22'00"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[X]		4 209.5 kHz	400
MSI	[X]		518 kHz	400

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0350,0750,1150,1550,1950,2350	[X]	English	
0350,0750,1150,1550,1950,2350	[X]	English	For Bur Sait (Port Said), Gulf of Suez (N of Safaga) and Gulf of Aqaba.

**ESTONIA****Tallinn****Region:** VI**METAREA:** I**Position:** 59°27'84"N 024°21'42"E

Watch hours on Ch70

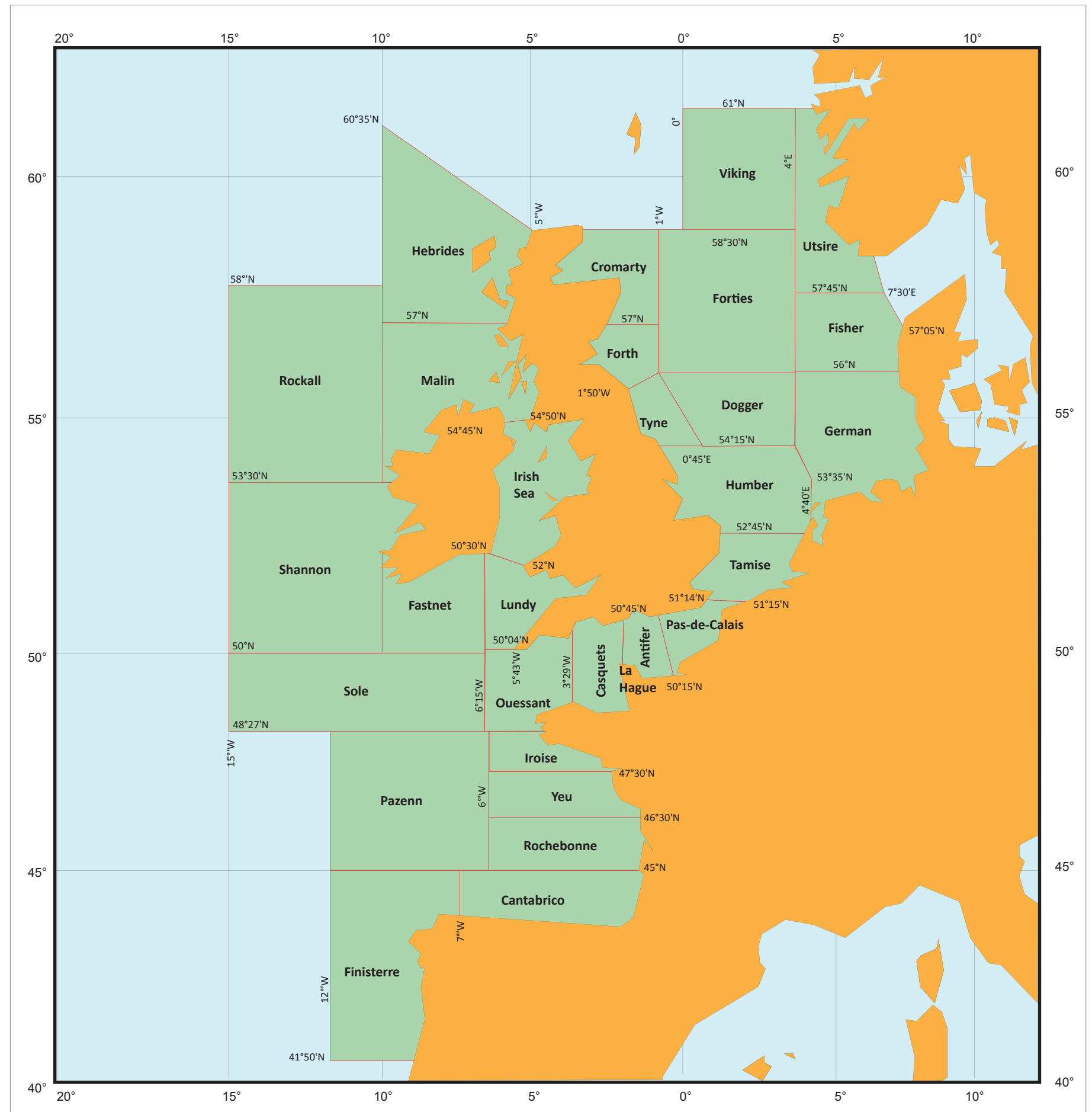
Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[F]		518 kHz	250

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0320, 1520, 2320	[F]	English	Weather warnings.
0720, 1920	[F]	English	Weather warnings and weather forecast.
1120	[F]	English	Weather warnings and Ice reports.

# France

NAVTEX Forecast Areas

30 October 2016



The designations employed and the presentation of material in this publication do not imply the expression of any opinion whatsoever on the part of the Secretariat of WMO concerning the legal status of any country, territory, city or area, or of its authorities, or concerning the delimitation of its frontiers or boundaries.

**FRANCE****Corsen (CROSS)****Region:** VI**METAREA:** II**Position:** 48°28'56"N 005°03'18"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[A]		518 kHz	300

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0000, 1200	[A]	English	Repetition: Gale/storm warnings. General situation and development. Forecast by zones (c) to (h), valid for the following 24 hours. Further weather outlook.
On receipt when frequency is not in use & at the following watch hours (00, 04, 08, 12, 16, 20 UTC) (2)	[A]	English	Gale/Storm warnings (BMS - Bulletins Météorologiques Spéciaux) for areas (c)-(h).

**FRANCE**

**La Garde (CROSS)**

**Region:** VI  
**METAREA:** III  
**Position:** 48°28'56"N 005°03'18"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[S]		490 kHz	250
MSI	[W]		518 kHz	250

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
1100, 2300	[S]	French	Repetition: Gale/storm warnings. General situation and development. Forecast by zones (a) to (j), valid for the following 24 hours. Further weather outlook.
1140, 2340	[W]	English	Repetition: Gale/storm warnings. General situation and development. Forecast by zones (a) to (j), valid for the following 24 hours. Further weather outlook.
On receipt when frequency is not in use & at the following watch hours (03, 07, 11, 15, 19, 23 UTC)	[S]	French	Gale/Storm warnings (BMS - Bulletins Météorologiques Spéciaux) for areas (a)-(j).
On receipt when frequency is not in use & at the following watch hours (0340, 0740, 1140, 1540, 1940, 2340)	[W]	English	Gale/Storm warnings (BMS - Bulletins Météorologiques Spéciaux) for areas (a)-(j).



**FRANCE**

**Ouessant**

**Region:** VI  
**METAREA:** III  
**Position:** 48°28'56"N 005°03'18"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[E]		490 kHz	300

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0040,0440,0840,1240,1640,2040	[E]	French	

**GEORGIA**

**Poti**

**Region:** VI  
**METAREA:** III  
**Position:** 42°07'97"N 041°39'66"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[G]		490 kHz	350

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0100,0500,0900,1300,1700,2100	[G]	English	

**GERMANY****Pinneberg****Region:** VI**METAREA:** I**Position:** 53°40'50"N 009°48'50"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[L]		490 kHz	250
MSI	[S]		518 kHz	250

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0150,0550,0950,1350,1750,2150	[L]	German	
0300,0700,1100,1500,1900,2300	[S]	English	

**GREECE****Irakleio (Kriti)****Region:** VI**METAREA:** III**Position:** 35°19'33"N 025°44'92"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[S]		4209.5 kHz	400
MSI	[Q]		490 kHz	400
MSI	[H]		518 kHz	400

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0110,0510,0910,1310,1710,2110	[H]	English	Gale/Storm Warnings. Synopsis, 24 hour forecast for sub areas and 12 hour outlook
0240,0640,1040,1440,1840,2240	[Q]	Greek	Gale/Storm Warnings. Synopsis, 24 hour forecast for sub areas and 12 hour outlook
0300,0700,1100,1500,1900,2300	[S]	Greek	

**GREECE****Kerkyra****Region:** VI**METAREA:** III**Position:** 39°36'43"N 019°53'47"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[P]		490 KHz	400
MSI	[K]		518 kHz	400

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0140,0540,0940,1340,1740,2140	[K]	English	Gale/Storm Warnings. Synopsis, 24 hour forecast for sub areas and 12 hour outlook
0230,0630,1030,1430,1830,2230	[P]	Greek	Gale/Storm Warnings. Synopsis, 24 hour forecast for sub areas and 12 hour outlook

**GREECE****Limnos****Region:** VI**METAREA:** III**Position:** 39°54'41"N 025°10'84"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[R]		490 kHz	400
MSI	[L]		518 kHz	400

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0150,0550,0950,1350,1750,2150	[L]	English	Gale/Storm Warnings. Synopsis, 24 hour forecast for sub areas and 12 hour outlook.
1050, 1850	[R]	Greeklsh (Freek wording – English characters)	Gale/Storm Warnings. Synopsis, 24 hour forecast for sub areas and 12 hour outlook.

**GREENLAND (KALAALLIT NUNAAT)****Kook Island (Nuuk)****Region:** VI**METAREA:** XVIII**Position:** 64°04'00"N 052°01'00"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[W]		518 kHz	300

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0340,0740,1140,1540,1940,2340	[W]	English	Storm warnings and forecast for areas 7-14. Ice reports for W Coast of Greenland.

**GREENLAND (KALAALLIT NUNAAT)****Simiutaq****Region:** VI**METAREA:** XVIII**Position:** 60°41'00"N 046°35'00"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[M]		518 kHz	300

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0200,0600,1000,1400,1800,2200	[M]	English	



**GREENLAND (KALAALLIT NUNAAT)**

**Upernavik**

**Region:** VI  
**METAREA:** XVIII  
**Position:** 72°47'00"N 056°09'00"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[I]		518 kHz	300

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0120,0520,0920,1320,1720,2120	[I]	English	

**GUAM****Guam (USCG)****Region:** V**METAREA:** XI**Position:** 13°28'62"N 144°50'10"E

	Mode Of Transmission	ID SLOT		Frequency	Range
		International	National		
	MSI	[V]		518 kHz	250

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0330,0730,1130,1530,1930,2330	[V]	English	Gale warnings and forecast for Guam and N. Mariana Islands.

**HONG KONG, CHINA**

Hong Kong

**Region:** II**METAREA:** XI**Position:** 22°12'57"N 114°15'03"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[L]		518 kHz	400

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0150, 0550, 0950, 1350, 1750, 2150	[L]	English	Warnings of winds of force 8 or above. A synopsis of significant weather system within the sea area 10°N-30°N, 105°E-125°E. Forecast for 24 hours from 0100/1300 for Hong Kong Marine Forecast Areas.
On receipt	[L]	English	Warnings are issued whenever a tropical cyclone is located within the area 10°N-30°N, 105°E-125°E. Note: Warnings are repeated once in the next scheduled broadcast.

**ICELAND****Reykjavik Radio / Grindavik****Region:** VI**METAREA:** I**Position:** 63°49'99"N 022°27'04"W

Watch hours on Ch70

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[K]		490 kHz	450
MSI	[X]		518 kHz	450

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0140,0540,0940,1340,1740,2140	[K]	Icelandic	
0250, 0650, 1050, 1450, 1850, 2250	[X]		Part 1: ICE. Coastal waters of Iceland Part 2: Weather situation Part 3: Forecasts for coastal districts and coastal waters of Iceland valid for 24 to 36 hours. Note: The latest ice report and forecast is repeated on request.
On receipt	[X]	English	Storm warnings.

**ICELAND**

Reykjavik Radio / Saudanes

**Region:** VI**METAREA:** I**Position:** 66°11'17"N 018°57'12"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[E]		490 kHz	450
MSI	[R]		518 kHz	450

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0040,0440,0840,1240,1640,2040	[E]	Icelandic	
0250,0650,1050,1450,1850,2250	[R]	English	

**INDIA****Balasore****Region:** II**METAREA:** VIII(N)**Position:** 21°29'20"N 086°55'00"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[I]		490 kHz	250
MSI	[S]		518 kHz	250

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0120,0530,0930,1320,1720,2120	[I]	Oriya, Bengali, Hindi	
0300,0700,1100,1500,1900,2300	[S]	English	

**INDIA****Keating Point (Andaman and Nicobar Islands)****Region:** II**METAREA:** VIII(N)**Position:** 09°15'40"N 092°46'50"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[K]		490 kHz	250

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0140,0540,0940,1340,1740,2140	[K]	Hindi	

**INDIA****Muttam Point****Region:** II**METAREA:** VIII(N)**Position:** 08°07'40"N 077°19'10"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[T]		490 kHz	250
MSI	[L]		518 kHz	250

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0150,0550,0950,1350,1750,2150	[L]	English	
0310,0710,1110,1510,1910,2310	[T]	Malayalam, Tamil, Hindi	



**INDIA****Porto Novo**

**Region:** II  
**METAREA:** VIII(N)  
**Position:** 11°30'20"N 079°46'20"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
	[E]		490 kHz	250
	[O]		518 kHz	250

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0040,0440,0840,1240,1640,2040	[E]	Tamil, Hindi	
0220,0620,1020,1420,1820,2220	[O]	English	

**INDIA****Vakalpudi****Region:** II**METAREA:** VIII(N)**Position:** 17°00'80"N 082°17'10"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[G]		490 kHz	250
MSI	[Q]		518 kHz	250

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0100,0500,0900,1300,1700,2100	[G]	Telegu, Hindi	
0240,0640,1040,1440,1840,2240	[Q]	English	

**INDIA****Vengurla Point****Region:** II**METAREA:** VIII(N)**Position:** 15°51'20"N 073°37'00"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[R]		490 kHz	250
MSI	[J]		518 kHz	250

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0130,0530,0930,1330,1730,2130	[J]	English	
0250,0650,1050,1450,1850,2250	[R]	Marathi, Konkani, Kannada, Hindi	

**INDIA****Veraval****Region:** II**METAREA:** VIII(N)**Position:** 20°54'60"N 070°21'00"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[P]		490 kHz	250
MSI	[H]		518 kHz	250

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0110,0510,0910,1310,1710,2110	[H]	English	
0230,0630,1030,1430,1830,2230	[P]	Gujrati, Marathi, Hindi	

**INDONESIA****Amboina****Region:** V**METAREA:** XI**Position:** 03°41'68"S 128°11'88"E

	Mode Of Transmission	ID SLOT		Frequency	Range
		International	National		

MSI

**[B]**

518 kHz

300

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
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0010,0410,0810,1210,1610,2010

**[B]**

English

Storm warnings.

**INDONESIA****Jakarta**

**Region:** V  
**METAREA:** XI  
**Position:** 06°07'15"S 106°51'78"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		

MSI	[E]	518 kHz	300
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Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
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0040,0440,0840,1240,1640,2040	[E]	English	Storm warnings, 24 hour forecast, synopsis and analysis for indonesian waters and China Sea.
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**INDONESIA**

Jayapura

**Region:** V  
**METAREA:** XI  
**Position:** 02°31'13"S 140°43'30"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		

MSI	[A]	518 kHz	300
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Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
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0000,0400,0800,1200,1600,2000	[A]	English	Storm warnings.
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**INDONESIA****Ujungpandang (Makassar)****Region:** V**METAREA:** XI**Position:** 05°04'89"S 119°29'83"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		

MSI

**[D]**

518 kHz

300

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
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0030,0430,0830,1230,1630,2030

**[D]**

English

Storm warnings.



**IRAN, ISLAMIC REPUBLIC OF****Bandar Abbas (MRCC)****Region:** II**METAREA:** IX**Position:** 27°06'00"N 056°03'00"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[I]		490 kHz	300
MSI	[F]		518 kHz	300

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0050, 0450, 0850, 1250, 1650, 2050	[F]	English	Gale warnings. For the Strait of Hormuz and the Persian Gulf.
0120,0530,0930,1320,1720,2120	[I]	Farsi	For the Strait of Hormuz and the Persian Gulf.

**IRAN, ISLAMIC REPUBLIC OF****Bushehr (MRCC)****Region:** II**METAREA:** IX**Position:** 28°59'00"N 050°49'00"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[D]		490 kHz	300
MSI	[A]		518 kHz	300

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0000,0400,0800,1200,1600,2000	[A]	English, Farsi	For the Northwest of Persian Gulf.
0030,0430,0830,1230,1630,2030	[D]	Farsi	
0800, 1600	[A]	English, Farsi	For the Northwest of Persian Gulf.

**IRAN, ISLAMIC REPUBLIC OF****Fereydoonkenar Radio****Region:** II**METAREA:** IX**Position:** 36°42'00"N 052°33'00"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[G]		490 kHz	250
MSI	[J]		490 kHz	250

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0051,0451,0851,1251,1651,2051	[J]	Farsii	
0100,0500,0900,1300,1700,2100	[G]		

**IRELAND****Malin Head (MRSC)****Region:** VI**METAREA:** I**Position:** 55°21'80"N 007°20'39"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[Q]		518 kHz	400

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0240, 0640, 1040, 1440, 1840	[Q]	English	For North Channel, SW coast of Scotland, N, NW and W coasts of Ireland and approaches.
0240, 0640, 1040, 1440, 1840, 2240	[Q]	English	Gale warnings for the Irish coastal waters up to 30 n miles offshore and Areas Irish Sea, Shannon, Rockall, Malin and Bailey.
0640, 1840	[Q]	English	Gale warnings and forecast for areas Shannon, Rockall, Malin and Bailey.
1040, 2240	[Q]	English	Gale warnings, synopsis and 24 hour forecast for Irish coastal waters up to 30 n miles offshore and Areas Irish sea, Atlantic-East Northern and East Central sections.

**IRELAND**

**Malin Head (North West Approaches broadcast for United Kingdom)**

**Region:** VI  
**METAREA:** I  
**Position:** 55°21'80"N 007°20'39"W

Mode Of Transmission	ID SLOT	Frequency	Range
	<b>International</b> <b>National</b>		
MSI	[A]	490 kHz	400

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0000,0400,0800,1200,1600,2000	[A]	English	

**IRELAND****Valentia (MRSC)****Region:** VI**METAREA:** I**Position:** 51°56'00"N 010°21'00"W

	Mode Of Transmission	ID SLOT		Frequency	Range
		International	National		

	MSI	[W]		518 kHz	400
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Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0340, 0740, 1140, 1540, 1940, 2340	[W]	English	Gale warnings for the Irish coastal waters up to 30 n miles offshore and Areas Irish Sea.
0340, 1140, 1540, 2340	[W]	English	For S, SW and W coasts of Ireland and approaches.
0740, 1940	[W]	English	Gale warnings, synopsis and 24 hour forecast for Irish coastal waters up to 30 n miles offshore and Areas Irish sea, Sole, Fastnet and Shannon.
1140, 2340	[W]	English	Forecast for Area Atlantic-East Central Section.

**ISRAEL****Hefa (Haifa)****Region:** VI**METAREA:** III**Position:** 32°54'90"N 035°07'10"E

Watch hours on Ch70

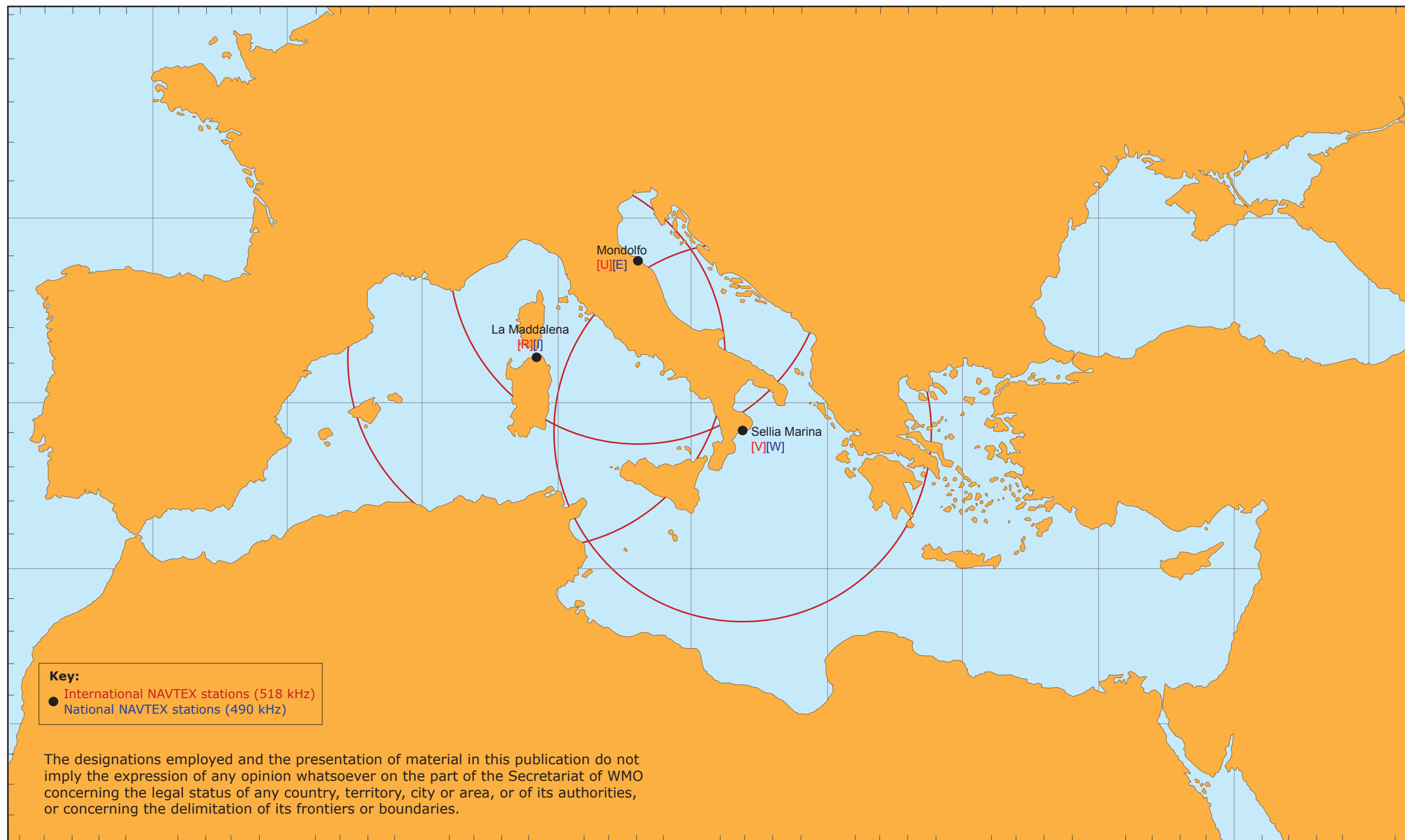
	Mode Of Transmission	ID SLOT		Frequency	Range
		International	National		
	MSI	[P]		518 kHz	200

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0230,0630,1030,1430,1830,2230	[P]	English	Gale warnings, synopsis, 12 hour forecast and outlook for a further 12 hours for Areas Delta, Taurus and Crusade.

# ITALY

## NAVTEX forecast areas

3 June 2015



NOTE: Augusta, Cagliari, Roma and Trieste stations no longer transmit in NAVTEX mode but only in DSC. The transmission NAVTEX mode is now provided by La Maddalena, Mondolfo and Sellia Marina.



**ITALY****La Maddalena****Region:** VI**METAREA:** III**Position:** 41°13'22"N 009°23'57"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[I]		490 kHz	320
MSI	[R]		518 kHz	320

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0120 0520 1320	[I]	Italian	Gale and Storm Warnings.
0250 1050 1450 2250	[R]	English	Gale and Storm Warnings.
0650 1850	[R]	English	Weather Reports.
0920 2120	[I]	Italian	Weather Reports.

**ITALY****Mondolfo****Region:** VI**METAREA:** III**Position:** 43°44'51"N 013°08'33"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[E]		490 kHz	320
MSI	[U]		518 kHz	320

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0040 0440 1240 1640	[E]	Italian	Gale and Storm Warnings.
0320 1120 1520 2320	[U]	English	Gale and Storm Warnings.
0340 1140 1540 2340	[E]	Italian	Weather Reports.
0720 1920	[U]	English	Weather Reports.

**ITALY**

**Piombino**

**Region:** VI

**METAREA:** III

**Position:** 42°55'36"N 010°32'45"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[N]		490 kHz	320

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0210,0610,1010,1410,1810,2210	[N]	English	

**ITALY****Sellia Marina****Region:** VI**METAREA:** III**Position:** 38°52'21"N 016°43'06"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[W]		490 kHz	320
MSI	[V]		518 kHz	320

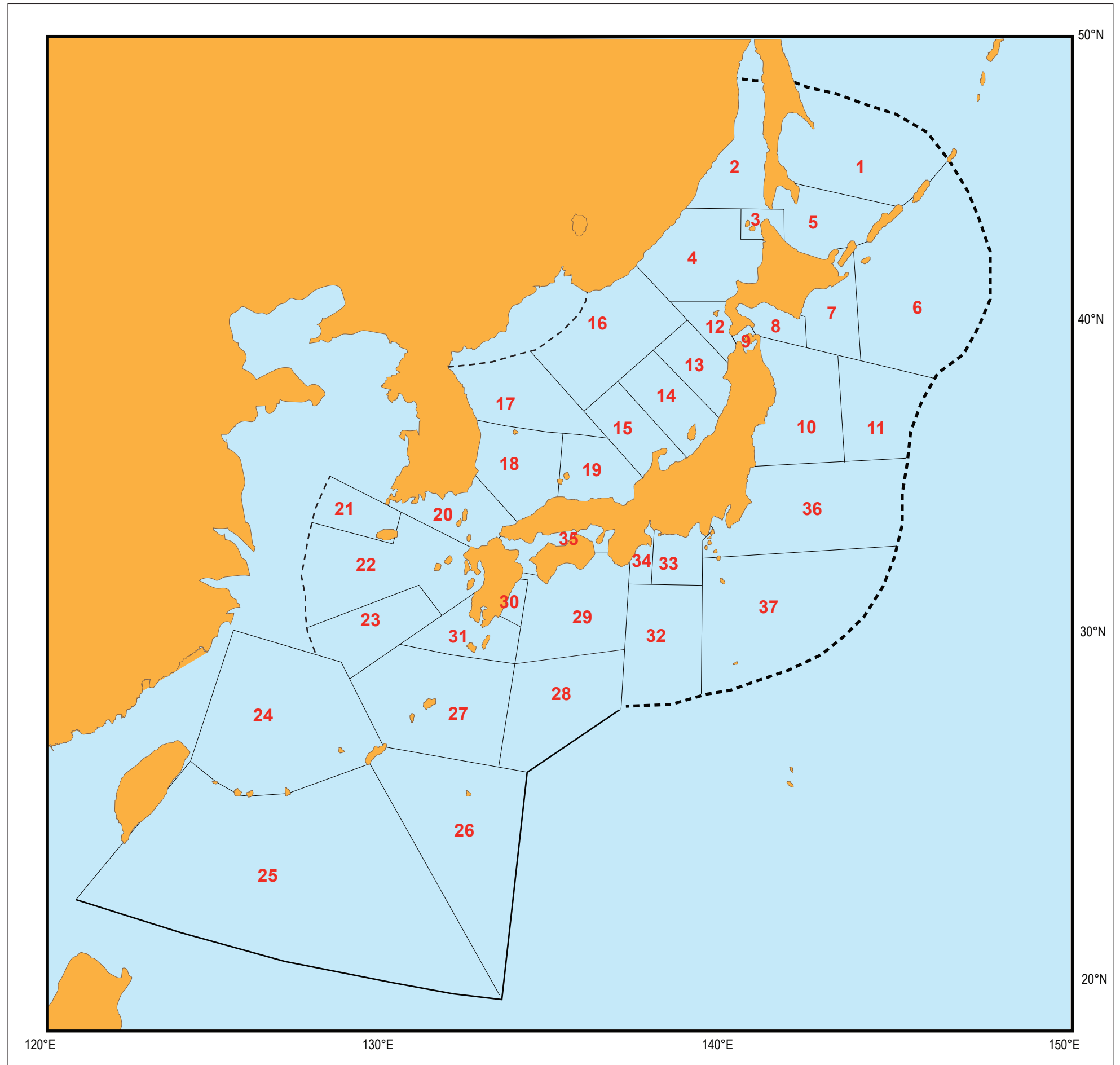
Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0330 1130 1530 1720	[V]	English	Gale and Storm Warnings.
0340 1140 1540 2340	[W]	Italian	Gale and Storm Warnings.
0730 1930	[V]	English	Weather Reports.
0740 1850	[W]	Italian	Weather Reports.

# JAPAN

## NAVTEX forecast areas

4 November 2013

1	Sea East of Sakhalin / Northern Sea of Japan Southern Sea of Okhotsk
2	Sea West of Sakhalin
3	Soya Kaikyo / Northern Sea of Japan Southern Sea of Okhotsk
4	Sea West of Hokkaido
5	Sea off Abashiri
6	Sea East of Hokkaido / Sea South and East of Hokkaido
7	Sea off Kushiro
8	Sea off Hidaka
9	Tsugaru Kaikyo
10	Western Sea off Sanriku
11	Eastern Sea off Sanriku
12	Sea off Hiyama and Tsugaru
13	Sea off Akita / Central Sea of Japan
14	Sea off Sado / Central Sea of Japan
15	Sea off Noto / Central Sea of Japan
16	Sea off Southern Coast of Maritime Province / Central Sea of Japan
17	Northwestern Part of Japan Sea
18	Sea West of Oki Syoto
19	Sea East of Oki Syoto and Around Wakasa Wan
20	Tsushima Kaikyo
21	Sea West of Cheju Island
22	Sea West of Nagasaki
23	Sea southwest of Meshima
24	Southern Part of East China Sea
25	Sea South of Okinawa
26	Sea East of Okinawa
27	Sea Around Amami / Sea South of Kyushu and Hyuga Nada
28	Southern Sea off Shikoku / Sea off Shikoku and Setonaikai
29	Northern Sea off Shikoku / Sea off Shikoku and Setonaikai
30	Hyuga Nada
31	Sea off Kagoshima / Sea South of Kyushu and Hyuga Nada
32	Southern Sea off Tokai
33	Eastern Sea off Tokai
34	Western Sea off Tokai
35	Setonaikai
36	Northern Sea off Kanto / Sea off Kanto
37	Southern Sea off Kanto



The designations employed and the presentation of material in this publication do not imply the expression of any opinion whatsoever on the part of the Secretariat of WMO concerning the legal status of any country, territory, city or area, or of its authorities, or concerning the delimitation of its frontiers or boundaries.

**JAPAN****Kushiro****Region:** II**METAREA:** XI**Position:** 42°57'35"N 144°35'37"E

Transmit on 424 kHz (424 kHz is a local frequency, not a GMDSS frequency allocated for national broadcasts).

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[K]		490 KHz	400
MSI	[K]		518 kHz	400

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0140, 0540, 0940, 1340, 1740, 2140	[K]	English	Storm warnings, gale warnings, near gale warnings, fog (visibility) warnings, synopsis, 12 and 24 hour forecast (only for typhoon) for Areas 2, 4, 5, 7 -12. Tsunami warnings and advice from the Tsunami Warnings Centres.
0140,0540,0940,1340,1740,2140	[K]	Japanese	
0940, 1340 (January-April)	[K]	English	Ice reports for the southern part of Okhotskoye More and E coast of Kokkaido. Drifting ice in Japan sea and North Pacific Ocean.

**JAPAN****Moji****Region:** II**METAREA:** XI**Position:** 34°00'90"N 130°56'10"E

Transmit on 424 kHz (424 kHz is a local frequency, not a GMDSS frequency allocated for national broadcasts).

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[H]		490 kHz	400
MSI	[H]		518 kHz	400

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0017,0417,0817,1217,1617,2017	[H]	Japanese	
0110,0510,0910,1310,1710,2110	[H]	English	

**JAPAN****Naha****Region:** II**METAREA:** XI**Position:** 26°05'48"N 127°40'13"E

Transmit on 424 kHz (424 kHz is a local frequency, not a GMDSS frequency allocated for national broadcasts).

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[G]		490 kHz	400
MSI	[G]		518 kHz	400

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0100,0500,0900,1300,1700,2100	[G]	English	Storm warnings, gale warnings, near gale warnings, fog (visibility) warnings, synopsis, 12 and 24 hour forecast (only for typhoon) for Areas 26, 27 and 30-37. Tsunami warnings and advice from Tsunami Warnings Centres.
0100,0500,0900,1300,1700,2100	[G]	Japanese	



**JAPAN****Otaru****Region:** II**METAREA:** XI**Position:** 43°19'53"N 140°26'83"E

Transmit on 424 kHz (424 kHz is a local frequency, not a GMDSS frequency allocated for national broadcasts).

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[J]		490 kHz	400
MSI	[J]		518 kHz	400

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0051,0451,0851,1251,1651,2051	[J]	Japanese	
0130, 0530, 0930, 1330, 1730, 2130	[J]	English	Storm warnings, gale warnings, near gale warnings, fog (visibility) warnings, synopsis, 12 and 24 hour forecast (only for typhoon) for Areas 1, 3, 4, 6, 7 and 13-16. Tsunami warnings and advice from the Tsunami Warnings Centres.
0930, 1330 (January-April)	[J]	English	Ice reports - drifting ice in Japan Sea and North Pacific ocean.

**JAPAN****Yokohama****Region:** II**METAREA:** XI**Position:** 35°14'55"N 139°55'28"E

Transmit on 424 kHz (424 kHz is a local frequency, not a GMDSS frequency allocated for national broadcasts).

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[I]		490 kHz	400
MSI	[I]		518 kHz	400

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0120,0520,0920,1320,1720,2120	[I]	English	Storm warnings, gale warnings, near gale warnings, fog (visibility) warnings, synopsis, 12 and 24 hour forecast (only for typhoon) for Areas 11, 12, 20-24, 26 and 27. Tsunami warnings and advice from the Tsunami Warnings Centres.
0120,0530,0930,1320,1720,2120	[I]	Japanese	

**MADAGASCAR**



**Region:** I  
**METAREA:** VII  
**Position:** --

NOTE: NAVTEX services for Madagascar are available through the NAVAREA VII coordinator.

**MALAYSIA****Miri (Sarawak)****Region:** V**METAREA:** XI**Position:** 04°26'42"N 114°01'51"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[T]		518 kHz	350

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0310, 0710, 1110, 1510, 1910, 2310	[T]	English	
0310, 1510	[T]	English	

**MALAYSIA****Penang****Region:** V**METAREA:** XI**Position:** 05°25'58"N 100°24'40"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[U]		518 kHz	350

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0320, 0720, 1120, 1520, 1920, 2320	[U]	English	
0320, 1520	[U]	English	

**MALAYSIA****Sandakan (Sabah)****Region:** V**METAREA:** XI**Position:** 05°53'85"N 118°00'24"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[S]		518 kHz	350

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0300, 0700, 1100, 1500, 1900, 2300	[S]	English	
0300, 1500	[S]	English	

**MALTA****Malta Radio****Region:** VI**METAREA:** III**Position:** 35°50'29"N 014°29'38"E

Temporary arrangement using Tunisian slot T.

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[O]		518 kHz	400
MSI	[T]		518 kHz	400

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0220,0620,1020,1420,1820,2220	[O]	English	
0310,0710,1110,1510,1910,2310	[T]	English	

**MAURITIUS**

Mauritius

**Region:** I**METAREA:** VIII(S)**Position:** 20°10'05"S 057°28'69"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[C]		518 kHz	400

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0020,0420,0820,1220,1620,2020	[C]	English	Warnings, synopsis and 24 hour forecast for Areas 8A1 to 8A7.



**MOZAMBIQUE**



**Region:** I  
**METAREA:** VII  
**Position:** --

NOTE: NAVTEX services for Mozambique are available through the NAVAREA VII coordinator.

**NAMIBIA****Walvis Bay****Region:** I**METAREA:** VII**Position:** 23°03'00"S 014°37'00"E

Watch hours on Ch70

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[B]		518 kHz	378

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0010, 0410, 0810, 1210, 1610, 2010	[B]	English	Coastal warnings for the coastal waters and economic zone of Namibia.
1210	[B]	English	Coastal weather reports from meteorological observation stations Mowe Bay, Walvis Bay and Diaz Point.
1210, 1610	[B]	English	Gale warnings, forecast for Areas 1, 2 and 9.

**NETHERLANDS****Netherlands Coastguard Radio****Region:** VI**METAREA:** I**Position:** 52°55'06"N 004°44'34"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[P]		518 kHz	250

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0230, 0630, 1030, 1430, 1830, 2230	[P]	English	Gale warnings for Aras Dover, Thames, Humber, German Bight and Dogger.
0230,1430	[P]	English	Forecasts for Areas: Thames, Humber, German Bight and Dogger.

**NORWAY****Bodø Radio****Region:** VI**METAREA:** XIX**Position:** 67°16'15"N 014°25'37"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[B]		518 kHz	450

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0010,0410,0810,1210,1610,2010	[B]	English	Routine warnings for Norwegian coastal areas and adjacent seas.
0010,1210	[B]	English	Weather forecast for coastal waters off northern Norway (65°N-70°N, west to 5°W) Norwegian and Arctic Sea (north of 70°N from 20°E to 5°W).

**NORWAY**

Jeloya

**Region:** VI**METAREA:** I**Position:** 59°26'08"N 010°35'48"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[M]		518 kHz	200

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0200,0600,1000,1400,1800,2200	[M]	English	

**NORWAY**

Ørlandet

**Region:** VI**METAREA:** I**Position:** 63°39'70"N 009°32'80"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[N]		518 kHz	450

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0210, 0610, 1010, 1410, 1810, 2210	[N]	English	Routine warnings for Norwegian coastal areas and adjacent seas.
0210, 1410	[N]	English	Weather forecast for coastal waters off Norway (62°N-65°N, west to 5°W).

**NORWAY****Rogaland Radio****Region:** VI**METAREA:** I**Position:** 58°38'92"N 005°36'58"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[L]		518 kHz	450

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0150, 0550, 0950, 1350, 1750, 2150	[L]	English	Routine warnings for Norwegian coastal areas and adjacent seas.
0150, 1350	[L]	English	Weather forecast for North Sea, Skagerrak and coastal waters off southern and western Norway (north to 62°N, west to 0°W).

**NORWAY****Svalbard (Isfjord)****Region:** VI**METAREA:** XIX**Position:** 78°03'42"N 013°36'59"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[A]		518 kHz	450

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0000, 0400, 0800, 1200, 1600, 2000	[A]		
0000, 1200	[A]	English	Weather forecast for coastal waters off northern Norway (65°N to 70°N, west to 5°W), Norwegian and Arctic Sea (north of 70°N) and Barents Sea.
0800	[A]	English	Ice reports.
On request	[A]	English	Weather warnings. Ice reports.



**NORWAY****Vardø Radio****Region:** VI**METAREA:** XIX**Position:** 70°22'27"N 031°05'83"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[C]		518 kHz	450

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0330, 0730, 1130, 1530, 1930, 2330	[C]	English	Routine warnings for Norwegian coastal areas and adjacent seas.
1130, 2330	[C]	English	Weather forecast for coastal waters off northern Norway (east of 20°E).
1530 (Tues only)	[C]	English	Ice reports.

**OMAN****Wattayah****Region:** II**METAREA:** IX**Position:** 23°36'77"N 058°30'26"E

	Mode Of Transmission	ID SLOT		Frequency	Range
		International	National		
	MSI	[M]		518 kHz	400

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0200,0600,1000,1400,1800,2200	[M]	English	

**PAKISTAN****Karachi****Region:** II**METAREA:** IX**Position:** 24°52'77"N 067°09'94"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[P]		518 kHz	400

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0230, 0630, 1030, 1430, 1830, 2230	[P]	English	Coastal warnings.
0800	[P]	English	Forecast, synopsis for Arabian Sea North of 20°N, Gulf of Oman, Persian Gulf, Gulf of Aden and Central Arabian Sea.

**PERU****Callao****Region:** III**METAREA:** XVI**Position:** 12°01'80"S 077°07'80"W

	Mode Of Transmission	ID SLOT		Frequency	Range
		International	National		
	MSI	[U]		518 kHz	250

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0320, 1120, 1520, 2320	[U]	English, Spanish	
0720, 1920	[U]	English, Spanish	Forecast and sea state for Areas I-IV.

**PERU****Mollendo (Matarani)****Region:** III**METAREA:** XVI**Position:** 17°00'30"S 072°01'90"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[W]		518 kHz	250

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0340, 0740, 1540, 1940	[W]	English	
1140, 2340	[W]	English	Forecast and sea state for Areas III.

**PERU****Paita****Region:** III**METAREA:** XVI**Position:** 05°06'00"S 081°07'00"W

	Mode Of Transmission	ID SLOT		Frequency	Range
		International	National		
	MSI	[S]		518 kHz	250

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0300, 1500	[S]	English	Forecast and sea state for Areas I.
0700, 1100, 1900, 2300	[S]	English	Forecast and sea state for Areas I.

**PHILIPPINES**

**Manila**

**Region:** V  
**METAREA:** XI  
**Position:** 14°33'33"N 121°03'90"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		

MSI	[J]	518 kHz	320
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Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
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0130,0530,0930,1330,1730,2130	[J]	English	
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**PORTUGAL****Cencomar (Penalva)****Region:** VI**METAREA:** II**Position:** 38°36'20"N 009°01'80"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[G]		490 kHz	300
MSI	[R]		518 kHz	300

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0100,0500,0900,1300,1700,2100	[G]	Portuguese	
0250,0650,1050,1450,1850,2250	[R]	English	



**PORTUGAL (AZORES)****Cencomaracores (S.Miguel)****Region:** VI**METAREA:** II**Position:** 37°48'50"N 025°33'20"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[J]		490 kHz	300
MSI	[F]		518 kHz	300

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0050,0450,0850,1250,1650,2050	[F]	English	
0051,0451,0851,1251,1651,2051	[J]	Portuguese	

**PORTUGAL (MADEIRA)****Cencomarmadeira (Porto Santo)****Region:** I**METAREA:** II**Position:** 33°05'70"N 016°20'40"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[M]		490 kHz	300
MSI	[P]		518 kHz	300

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0200,0600,1000,1400,1800,2200	[M]	Portuguese	
0230,0630,1030,1430,1830,2230	[P]	English	

**REPUBLIC OF KOREA****Chukpyon (Jukbyeon)****Region:** II**METAREA:** XI**Position:** 37°03'45"N 129°25'70"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[J]		490 kHz	200
MSI	[V]		518 kHz	200

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0051,0451,0851,1251,1651,2051	[J]	Korean	
0330,0730,1130,1530,1930,2330	[V]	English	

**REPUBLIC OF KOREA****Pyonsan (Byeonsan)****Region:** II**METAREA:** XI**Position:** 35°35'82"N 126°29'18"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[K]		490 kHz	200
MSI	[W]		518 kHz	200

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0140,0540,0940,1340,1740,2140	[K]	Korean	
0340,0740,1140,1540,1940,2340	[W]	English	

**ROMANIA****Constanta (Constantza) Radio****Region:** VI**METAREA:** III**Position:** 44°06'00"N 028°38'00"E

Watch hours on Ch70

	Mode Of Transmission	ID SLOT		Frequency	Range
		International	National		
	MSI	[L]		490 kHz	400

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0150,0550,0950,1350,1750,2150	[L]	Romanian	

**RUSSIAN FEDERATION (EUROPE)**

Arkhangel'sk

**Region:** VI**METAREA:** XX**Position:** 64°51'00"N 040°17'00"E

Watch hours on Ch70

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[L]		518 kHz	300

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0150,0550,0950,1350,1750,2150	[L]	English	Weather warnings and forecasts. No ice information

**RUSSIAN FEDERATION (EUROPE)****Astrakhan (Caspian Sea)****Region:** VI**METAREA:** III**Position:** 45°47'00"N 047°33'00"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[W]		518 kHz	250

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0340,0740,1140,1540,1940,2340	[W]	English	Weather information fro north and central Caspian Sea to 42°N. Coastal warnings for north and central Caspian Sea to 42°N.

**RUSSIAN FEDERATION (EUROPE)****Murmansk**

**Region:** VI  
**METAREA:** XX  
**Position:** 68°46'00"N 032°58'00"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[K]		518 kHz	300

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0140,0540,0940,1340,1740,2140	[K]	English	Weather warnings and forecasts. No ice information



**RUSSIAN FEDERATION (EUROPE)**

Novorossiysk

**Region:** VI**METAREA:** III**Position:** 44°36'00"N 037°58'00"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[A]		518 kHz	300

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0300, 0700, 1100, 1500, 1900, 2300	[A]	English	Coastal warnings for Russian waters in Black Sea, Sea of Azov and Kerchenskiy Proliv.
0700, 1500	[A]	English	Storm warnings and weather forecast for areas Anapa-Tuance.

**RUSSIAN FEDERATION (EUROPE)****Tiksi****Region:** VI**METAREA:** XX**Position:** 71°38'00"N 128°50'00"E

Operational 01 July - 30 October

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[Q]		518 kHz	300

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0400, 1600	[Q]	English	Weather warnings and forecasts. No ice information

**RUSSIAN FEDERATION (IN ASIA)**

**Kholmsk**

**Region:** II  
**METAREA:** XIII  
**Position:** 47°02'00"N 142°03'00"E

	Mode Of Transmission	ID SLOT		Frequency	Range
		International	National		
	MSI	[B]		518 kHz	300

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0010,0410,0810,1210,1610,2010	[B]	English	Weather forecast. Gale-warnings for wind speed >17 m/s, waves height 5-7 m. Storm-warning for wind speed >25 m/s, waves height >8 m. Tsunami warnings. No sea ice information. Provided year round for most of the navigable routes within METAREA XIII, including the Sea of Okhotsk, Kamchatka peninsula waters, Sakhalin island waters and NE part of the Sea of Japan.

**RUSSIAN FEDERATION (IN ASIA)**

**Magadan**

**Region:** II  
**METAREA:** XIII  
**Position:** 59°41'00"N 150°09'00"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[D]		518 kHz	120

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0030,0430,0830,1230,1630,2030	[D]	English	Weather forecast. Gale-warnings for wind speed >17 m/s, waves height 5-7 m. Storm-warning for wind speed >25 m/s, waves height >8 m. Tsunami warnings. No sea ice information. Provided year round for most of the navigable routes within METAREA XIII, including the Sea of Okhotsk, Kamchatka peninsula waters, Sakhalin island waters and NE part of the Sea of Japan.

**RUSSIAN FEDERATION (IN ASIA)**

**Okhotsk**

**Region:** II  
**METAREA:** XIII  
**Position:** 59°22'00"N 143°12'00"E

	Mode Of Transmission	ID SLOT		Frequency	Range
		International	National		
	MSI	[G]		518 kHz	300

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0100,0500,0900,1300,1700,2100	[G]	English	Weather forecast. Gale-warnings for wind speed >17 m/s, waves height 5-7 m. Storm-warning for wind speed >25 m/s, waves height >8 m. Tsunami warnings. No sea ice information. Provided year round for most of the navigable routes within METAREA XIII, including the Sea of Okhotsk, Kamchatka peninsula waters, Sakhalin island waters and NE part of the Sea of Japan.

**RUSSIAN FEDERATION (IN ASIA)**

**Petropavlovsk-Kamchatskiy**

**Region:** II  
**METAREA:** XIII  
**Position:** 53°00'00"N 158°40'00"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[C]		518 kHz	300

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0020,0420,0820,1220,1620,2020	[C]	English	Weather forecast. Gale-warnings for wind speed >17 m/s, waves height 5-7 m. Storm-warning for wind speed >25 m/s, waves height >8 m. Tsunami warnings. No sea ice information. Provided year round for most of the navigable routes within METAREA XIII, including the Sea of Okhotsk, Kamchatka peninsula waters, Sakhalin island waters and NE part of the Sea of Japan.

**RUSSIAN FEDERATION (IN ASIA)**

**Vladivostok**

**Region:** II  
**METAREA:** XIII  
**Position:** 43°23'00"N 131°54'00"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[A]		518 kHz	230

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0000,0400,0800,1200,1600,2000	[A]	English	Weather forecast. Gale-warnings for wind speed >17 m/s, waves height 5-7 m. Storm-warning for wind speed >25 m/s, waves height >8 m. Tsunami warnings. No sea ice information. Provided year round for most of the navigable routes within METAREA XIII, including the Sea of Okhotsk, Kamchatka peninsula waters, Sakhalin island waters and NE part of the Sea of Japan.

**SAUDI ARABIA****Jeddah****Region:** II**METAREA:** IX**Position:** 21°23'00"N 039°10'00"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[H]		518 kHz	390

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0110,0510,0910,1310,1710,2110	[H]	English	Gale warnings, synopsis, 24 hour forecast for areas RSN, RSS, GAA and approaches.



**SENEGAL****Dakar****Region:** I**METAREA:** II**Position:** 14°46'25"N 017°20'40"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[M]		490 kHz	200
MSI	[C]		518 kHz	200

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0020,0420,0820,1220,1620,2020	[C]	English	
0200,0600,1000,1400,1800,2200	[M]	French	

**SEYCHELLES**

Mahé

**Region:** I**METAREA:** VIII(S)**Position:** 04°39'32"S 055°28'38"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[M]		490 kHz	400
MSI	[T]		518 kHz	400

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0200,0600,1000,1400,1800,2200	[M]	Creole	
0310,0710,1110,1510,1910,2310	[T]	English	

**SINGAPORE**

Singapore (Changi)

**Region:** V**METAREA:** XI**Position:** 01°20'65"N 103°58'35"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[C]		518 kHz	400

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0220, 0420, 0820, 1220, 1620, 2020	[C]	English	For the South China Sea, Malacca Straits and Bay of Bengal.
0220, 1220	[C]	English	Storm warnings, situation for the South China Sea, Malacca Straits, Andaman Sea. 12 hour forecast for Phuket, Melaka, Tioman, Bunguran, Condore, Reef.

**SOUTH AFRICA****Cape Town Radio****Region:** I**METAREA:** VII**Position:** 33°40'97"S 018°43'09"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[C]		518 kHz	300

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0020, 0420, 0820, 2020	[C]		Local and coastal warnings for the area from the Orange River to Mosselbay are repeated daily at routine times for as long as they remain in force. Areas of responsibility have been defined with overlaps in each case. The overlap is expanded in cases of emergency.
1220, 1620	[C]	English	Coastal weather bulletins: Gale warnings, forecast for areas 1-5, 11 and 12. Local and coastal warnings for the area from the Orange River to Mosselbay are repeated daily at routine times for as long as they remain in force. Areas of responsibility have been defined with overlaps in each case. The overlap is expanded in cases of emergency.

**SOUTH AFRICA****Durban Radio**

**Region:** I  
**METAREA:** VII  
**Position:** 29°48'35"S 030°48'95"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[O]		518 kHz	300

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0220, 0620, 1420, 2220	[O]		Local and coastal warnings for the area from the East London to Maputo are repeated daily at routine times for as long as they remain in force. Areas of responsibility have been defined with overlaps in each case. The overlap is expanded in cases of emergency.
1020, 1820	[O]		Coastal weather bulletins: Gale warnings, forecast for areas 4, 5, 12, 14, 15. Areas of responsibility have been defined with overlaps in each case. The overlap is expanded in cases of emergency.

**SOUTH AFRICA****Port Elizabeth Radio****Region:** I**METAREA:** VII**Position:** 34°02'20"S 025°33'37"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[I]		518 kHz	300

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0120, 0520, 1320, 2120	[I]		Local and coastal warnings for the area from the Cape Agulhas to Port Edward are repeated daily at routine times for as long as they remain in force. Areas of responsibility have been defined with overlaps in each case. The overlap is expanded in cases of emergency.
0920, 1720	[I]		Coastal weather bulletins: Gale warnings and forecasts. Local and coastal warnings for the area from the Cape Agulhas to Port Edward are repeated daily at routine times for as long as they remain in force. Areas of responsibility have been defined with overlaps in each case. The overlap is expanded in cases of emergency.

**SPAIN****Coruña****Region:** VI**METAREA:** II**Position:** 43°22'03"N 008°27'13"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[W]		490 kHz	300
MSI	[D]		518 kHz	300

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0030, 0430, 0830, 1230, 1630, 2030	[D]	English	Gale warnings. zones: Porto, Charcot, Finisterre, Cantábrico, Pазzen, Rochebonne, Yeu, Iroise, Gran Sol.
0340, 0740, 1140, 1540, 1940, 2340	[W]	Spanish	Gale warnings. zones: Porto, Charcot, Finisterre, Cantábrico, Pазzen, Rochebonne, Yeu, Iroise, Gran Sol.
0830, 2030	[D]	English	Gale warnings, general synopsis and evolution. Forecast valid for 24 hours for N Atlantic, zones: Porto, Charcot, Finisterre, Cantábrico, Pазzen, Rochebonne, Yeu, Iroise, Gran Sol.
1140, 1940	[W]	Spanish	Gale warnings, general synopsis and evolution. Forecast valid for 24 hours for N Atlantic, zones: Porto, Charcot, Finisterre, Cantábrico, Pазzen, Rochebonne, Yeu, Iroise, Gran Sol.

**SPAIN****Tarifa****Region:** VI**METAREA:** II, III**Position:** 36°02'53"N 005°33'38"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[T]		490 kHz	300
MSI	[G]		518 kHz	300

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0100, 0500, 1300, 1700	[G]	English	Gale warnings. zones: San Vicente, Cádiz, Estrecho Alborán, Palos, Argelia, Agadir, Casablanca.
0310, 0710, 1110, 1510, 1910, 2310	[T]	Spanish	Gale warnings. zones: San Vicente, Cádiz, Estrecho Alborán, Palos, Argelia, Agadir, Casablanca.
0710, 1910	[T]	Spanish	Gale warnings, general synopsis and evolution. Forecast valid for 24 hours for N Atlantic, zones: San Vicente, Cádiz, Estrecho Alborán, Palos, Argelia, Agadir, Casablanca.
0900, 2100	[G]	English	Gale warnings, general synopsis and evolution. Forecast valid for 24 hours for N Atlantic, zones: San Vicente, Cádiz, Estrecho Alborán, Palos, Argelia, Agadir, Casablanca.



**SPAIN****Valencia (Cabo de la Nao)****Region:** VI**METAREA:** III**Position:** 38°43'07"N 000°10'55"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[M]		490 kHz	220
MSI	[X]		518 kHz	220

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0200, 0600, 1000, 1400, 1800, 2200	[M]	Spanish	Gale warnings. zones: Alborán, Palos, Argelia, Cabrera, Baleares, Menorca, Leon, Cerdeña.
0350, 0750, 1150, 1550, 1950, 2350	[X]	English	Gale warnings. zones: Alborán, Palos, Argelia, Cabrera, Baleares, Menorca, León, Cerdeña.
0750, 1950	[X]	English	Gale warnings, general synopsis and evolution. Forecast valid for 24 hours for N Atlantic, zones: Alborán, Palos, Argelia, Cabrera, Baleares, Menorca, León, Cerdeña.
1000, 1800	[M]	Spanish	Gale warnings, general synopsis and evolution. Forecast valid for 24 hours , zones: Alborán, Palos, Argelia, Cabrera, Baleares, Menorca, León, Cerdeña.

**SPAIN (CANARY ISLANDS)**

Las Palmas

**Region:** I  
**METAREA:** II  
**Position:** 28°25'97"N 016°20'17"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[A]		490 kHz (1)	450
MSI	[I]		518 kHz	450

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0000, 0400, 0800, 1200, 1600, 2000	[A]	Spanish	Gale warnings. zones: Madeira, Casablanca, Agadir, Canarias, Tarfaya, Cap Blanc.
0120, 0520, 0920, 1320, 1720, 2120	[I]	English	Gale warnings. zones: Madeira, Casablanca, Agadir, Canarias, Tarfaya, Cap Blanc.
0800, 1600	[A]	Spanish	Gale warnings, general synopsis and evolution. Forecast valid for 24 hours for N Atlantic, zones: Madeira, Casablanca, Agadir, Canarias, Tarfaya, Cap Blanc.
0920, 1720	[I]	English	Gale warnings, general synopsis and evolution. Forecast valid for 24 hours for N Atlantic, zones: Madeira, Casablanca, Agadir, Canarias, Tarfaya, Cap Blanc.
1200	[A]	Spanish	Gale warnings, general synopsis and evolution. Forecast valid for 24 hours for Canary Islands coastal waters.
1320	[I]	English	Gale warnings, general synopsis and evolution. Forecast valid for 24 hours for Canary islands coastal waters.

# SWEDEN

## NAVTEX Stations

25 July 2018



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**SWEDEN****Bjuröklubb****Region:** VI**METAREA:** I**Position:** 64°27'71"N 021°35'47"E

	Mode Of Transmission	ID SLOT		Frequency	Range
		International	National		
	MSI	[H]		518 kHz	300

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0110, 0910, 2110	[H]	English	Weather warnings.
0510, 1710	[H]	English	Weather warnings and weather forecast.
1310	[H]	English	Weather warnings and Ice reports.

**SWEDEN****Gislövshammar****Region:** VI**METAREA:** I**Position:** 55°29'38"N 014°18'87"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[J]		518 kHz	300

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0130, 0930, 2130	[J]	English	Warnings and weather warnings.
0530, 1730(1)	[J]	English	Weather warnings and weather forecast.
1330	[J]	English	Weather warnings and Ice reports.

**SWEDEN****Grimeton****Region:** VI**METAREA:** I**Position:** 57°06'32"N 012°23'36"E

	Mode Of Transmission	ID SLOT		Frequency	Range
		International	National		
	MSI	[I]		518 kHz	300

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0120, 0920, 2120	[I]	English	Warnings and weather warnings.
0520, 1720(1)	[I]	English	Warnings, weather warnings and weather forecast.
1320	[I]	English	Warnings, weather warnings and Ice reports.

**SYRIAN ARAB REPUBLIC**

**Al Ladhiqiyah (Latakia)**

**Region:** VI  
**METAREA:** III  
**Position:** 35°32'13"N 035°46'50"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[K]		490 kHz	--

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0140,0540,0940,1340,1740,2140	[K]	--	

**THAILAND****Bangkok (Nonthaburi) Meteorological****Region:** II**METAREA:** XI**Position:** 13°01'47"N 100°01'20"E

Watch hours on Ch70

	Mode Of Transmission	ID SLOT		Frequency	Range
		International	National		
	MSI	[F]		518 kHz	400

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0050, 0850	[F]	English	Storm warnings for the Area 4°N-20°N, 98°E-115°E. Synopsis for the Areas 0°-30°N, 90°E-120°E. 24 hour forecast for Areas 1-5.
0050,0450,0850,1250,1650,2050	[F]	English	



**TUNISIA****Kelibia (Temporarily allocated to Malta)****Region:** I**METAREA:** III**Position:** 36°48'08"N 011°02'29"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[T]		518 kHz	270

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0310,0710,1110,1510,1910,2310	[T]	English	

**TURKEY****Antalya****Region:** VI**METAREA:** III**Position:** 36°09'00"N 032°26'00"E

Watch hours on Ch70

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[D]		490 kHz	400
MSI	[F]		518 kHz	400

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0030,0430,0830,1230,1630,2030	[D]	Turkish	Weather forecast for Area Taurus. Navigational warnings: For E. Mediterranean.
0050, 0450, 0850, 1250, 1650, 2050	[F]	English	Weather forecast for Area Taurus.

**TURKEY****Istanbul****Region:** VI**METAREA:** III**Position:** 41°04'00"N 028°57'00"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[M]		4 209.5 kHz	400
MSI	[B]		490 kHz	400
MSI	[D]		518 kHz	400

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0010,0410,0810,1210,1610,2010	[B]	Turkish	Weather forecast for Areas Marmara and Danube. Navigational warnings: For SW part of Black Sea.
0030,0430,0830,1230,1630,2030	[D]	English	Weather forecast for Areas Marmara and Danube.
0200,0600,1000,1400,1800,2200	[M]	Turkish	

**TURKEY****Izmir****Region:** VI**METAREA:** III**Position:** 38°16'00"N 026°16'00"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[C]		490 kHz	400
MSI	[I]		518 kHz	400

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0020,0420,0820,1220,1620,2020	[C]	Turkish	Weather Forecast for Areas Aegean and Jason.
0120,0520,0920,1320,1720,2120	[I]	English	Weather Forecast for Areas Aegean and Jason.

**TURKEY****Samsun****Region:** VI**METAREA:** III**Position:** 41°23'00"N 036°11'00"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[A]		490 kHz	400
MSI	[E]		518 kHz	400

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0000,0400,0800,1200,1600,2000	[A]	Turkish	Weather Forecast for Areas Georgia and Danube. Navigational warnings: For SE part of Black Sea.
0040,0440,0840,1240,1640,2040	[E]	English	Weather Forecast for Areas Georgia and Danube.

**UKRAINE****Berdiansk****Region:** VI**METAREA:** III**Position:** 46°38'17"N 036°45'72"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[U]		490 kHz	250
MSI	[G]		518 kHz	250

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0100,0500,0900,1300,1700,2100	[G]	English	
0320,0720,1120,1520,1920,2320	[U]	English	

**UKRAINE****Odesa****Region:** VI**METAREA:** III**Position:** 46°22'65"N 030°44'85"E

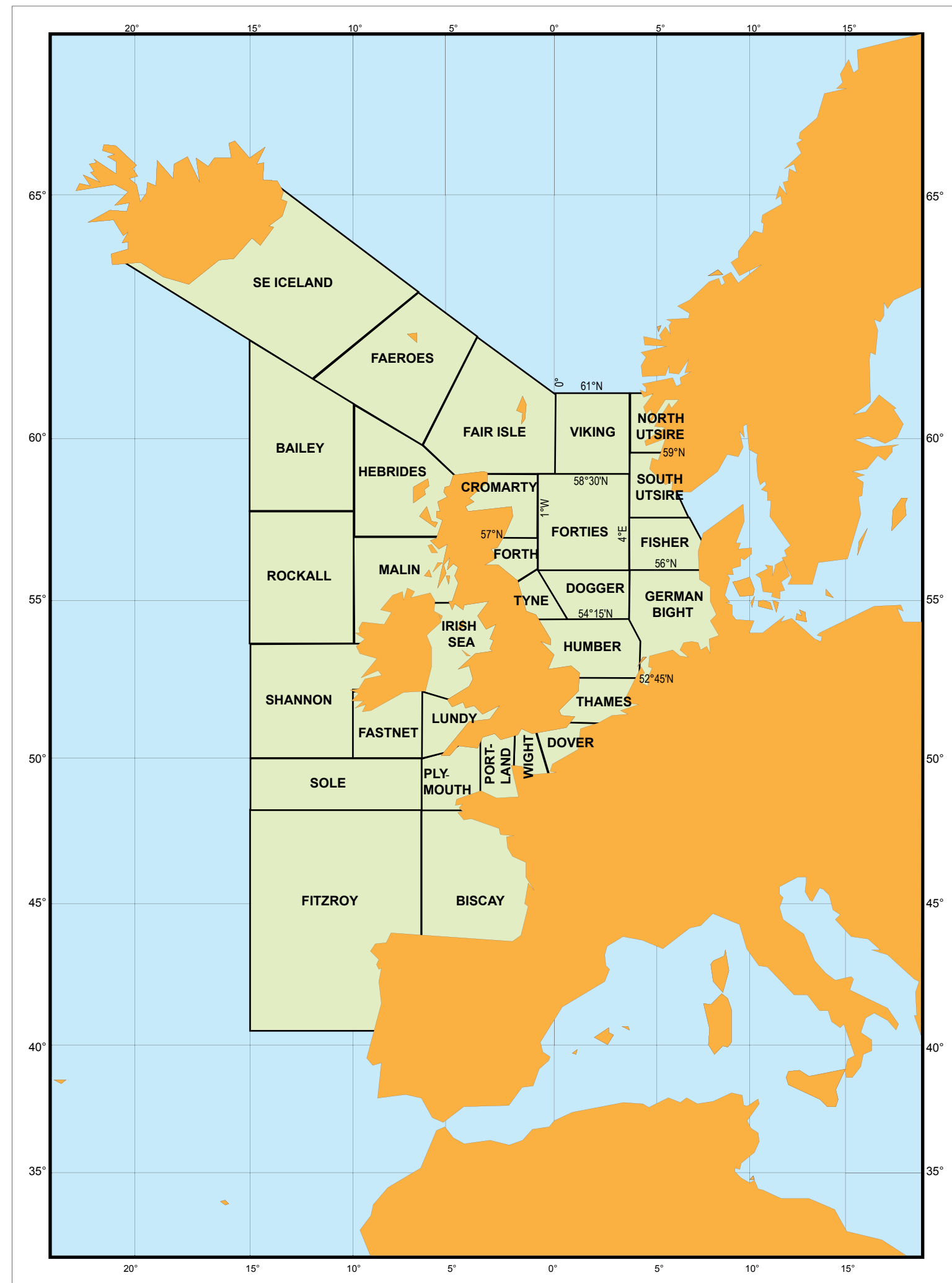
	Mode Of Transmission	ID SLOT		Frequency	Range
		International	National		
	MSI	[X]		490 kHz	250
	MSI	[C]		518 kHz	250

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0230, 0630, 1030, 1430, 1830, 2230	[C]	English	For NW part of Black Sea.
0350,0750,1150,1550,1950,2350	[X]	English	
1430	[C]	English	Ice Reports.
1430, 2230	[C]	English	For Area 1, NW part of Black Sea.

# UNITED KINGDOM OF GREAT BRITAIN AND NORTHER IRELAND

NAVTEX forecast areas

29 January 2015



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**UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND**

**Cullercoats**

**Region:** VI  
**METAREA:** I  
**Position:** 55°04'·48"N 1°27'·78"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[U]		490 kHz	300
MSI	[G]		518 kHz	300

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0100	[G]	English	Weather Bulletins: Extended outlook (3–5 days) for the North Sea and Eastern English Channel.
0100 0500 0900 1300 1700 2100	[G]	English	Navigational Warnings: Coastal (WZ) Navigational Warnings for Sea Areas 1–5, together with Gale and Tidal Surge Warnings until cancelled.
0500 1700	[G]	English	Navigational Warnings: NAVAREA I Warnings.
0720 1120 1920 2320	[U]	English	Weather Bulletins: Inshore waters 24 hour forecast, 24 hour outlook, wind, weather, visibility and sea state for Sea Areas 1–5 and 18.
0900 2100	[G]	English	Weather Bulletins: 24 hour forecast and outlook for Sea Areas Viking, Forties, Cromarty, Forth, Tyne, Dogger, Humber, Thames and Fair Isle.
1120 2320	[U]	English	Weather Bulletins: Updates to inshore waters forecast for Sea Areas 1–5 and 18.
On receipt	[U]	English	Navigational Warnings: Strong Wind Warnings.
On receipt	[G]	English	Weather Bulletins: Current weather observations for eastern coastal areas of the UK, from Orkney to the south coast. Navigational Warnings: Gale Warnings. Tidal Surge Warnings.

Note: Broadcasts are remotely controlled by Humber and Shetland Coastguards. There may be a delay in broadcast action if there is Search and Rescue in progress.

**UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND**

**Niton**

**Region:** VI

**METAREA:** I

**Position:** 50°35'·18"N 1°15'·28"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[T]		490 kHz	300
MSI	[I]		490 kHz	300
MSI	[E]		518 kHz	300
MSI	[K]		518 kHz	300

**UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND**

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0040	[E]	English	Weather Bulletins: Extended outlook (3–5 days) for Sea Areas Thames, Dover, Wight, Portland, Plymouth, Biscay, FitzRoy, Sole, Lundy, Fastnet, Irish Sea and Shannon.
0040 0440 0840 1240 1640 2040	[E]	English	Navigational Warnings: Coastal (WZ) Navigational Warnings for Sea Areas 6–9, together with Gale and Tidal Surge Warnings until cancelled.
0120 1320	[I]	English	Weather Bulletins: Updates to inshore waters forecast for Sea Areas 5–9 and 19.
0120,0520,1320,1720	[I]	English	Weather Bulletins: Inshore waters 24 hour forecast, 24 hour outlook, wind, weather, visibility and sea state for Sea Areas 5–9 and 19.
0140 0540 0940 1340 1740 2140	[K]	English	Navigational Warnings: Coastal (WZ) Navigational Warnings for Sea Areas 6–7 south of the Channel median.
0440 1640	[E]	English	Navigational Warnings: NAVAREA I Warnings.
0710 1910	[T]	French	Weather Bulletins: Weather synopsis and development, 24 hour forecast for Sea Areas Humber, Tamise, Pas de Calais, Antifer, Casquets and Ouessant. Navigational Warnings: Gale or storm warnings for Sea Areas Humber, Tamise, Pas de Calais, Antifer, Casquets and Ouessant.
0840 2040	[E]	English	Weather Bulletins: 24 hour forecast and outlook for Sea Areas Thames, Dover, Wight, Portland, Plymouth, Biscay, FitzRoy, Sole, Lundy and Fastnet.
On receipt	[E]	English	Navigational Warnings: Gale Warnings. Tidal Surge Warnings.
On receipt	[I]	English	Weather Bulletins: Current weather observations for southern coastal areas and English Channel. Navigational Warnings:

NOTE: Broadcasts are remotely controlled by Humber and Shetland Coastguards. There may be a delay in broadcast action if there is Search and Rescue in progress.

**UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND**

**Portpatrick**

**Region:** VI  
**METAREA:** I  
**Position:** 54°50'·65"N 5°07'·47"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[C]		490 kHz	300
MSI	[O]		518 kHz	300

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0020 0820 1220 2020	[C]	English	Weather Bulletins: Updates to inshore waters forecast for Sea Areas 9–17. Inshore waters 24 hour forecast, 24 hour outlook, wind, weather, visibility and sea state for Sea Areas 9–17.
0020 1220	[C]	English	Weather Bulletins: Updates to inshore waters forecast for Sea Areas 9–17. Updates to inshore waters forecast for Sea Areas 9–17.
0220	[O]	English	Weather Bulletins: Extended outlook (3–5 days) for Sea Areas Lundy, Fastnet, Irish Sea, Shannon, Rockall, Malin, Hebrides, Fair Isle, Faeroes and Southeast Iceland.
0220 0620 1020 1420 1820 2220	[O]	English	Navigational Warnings: Coastal (WZ) Navigational Warnings for Sea Areas 10–17, together with Gale and Tidal Surge Warnings until cancelled.
0220 1420	[O]	English	Navigational Warnings: NAVAREA I Warnings.
0620 1820	[O]	English	Weather Bulletins: Updates to inshore waters forecast for Sea Areas 9–17. Weather Bulletins: 24 hour forecast and outlook for Sea Areas Lundy, Fastnet, Irish Sea, Rockall, Malin, Hebrides, Bailey, Fair Isle, Faeroes and Southeast Iceland.
On receipt	[O]	English	Navigational Warnings: Gale Warnings. Tidal Surge Warnings.
On receipt	[C]	English	Weather Bulletins: Current weather observations for western coastal areas of the UK, from Wales to Orkney, including the coasts of Ireland. Navigational Warnings: Strong Wind Warnings.

NOTE: Broadcasts are remotely controlled by Humber and Shetland Coastguards. There may be a delay in broadcast action if there is Search and Rescue in progress.

**UNITED STATES OF AMERICA**

**Astoria (USCG)**

**Region:** IV  
**METAREA:** XII  
**Position:** 46°12'40"N 123°57'38"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[W]		518 kHz	216

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0340,0740,1140,1540,1940,2340	[W]	English	Gale warnings, coastal forecast for all areas. Offshore forecast for Areas 81-85. Notices to Mariners for areas Alameda and Seattle.

**UNITED STATES OF AMERICA**

**Boston, Massachusetts (USCG)**

**Region:** IV

**METAREA:** IV

**Position:** 41°42'82"N 070°30'27"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[F]		518 kHz	200

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0050,0450,0850,1250,1650,2050	[F]	English	Gale warnings, synopsis and forecast. For coastal waters. International Ice Patrol Bulletin.

**UNITED STATES OF AMERICA**

**Cambria**

**Region:** IV  
**METAREA:** XII  
**Position:** 35°31'12"N 121°03'60"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[Q]		518 kHz	350

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0240,0640,1040,1440,1840,2240	[Q]	English	Gale warnings, coastal forecast for all areas. Offshore forecast for Areas 81-85. Notices to Mariners for areas Alameda and Seattle.

**UNITED STATES OF AMERICA**

**Charleston (USCG)**

**Region:** IV

**METAREA:** IV

**Position:** 32°50'67"N 079°57'00"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[E]		518 kHz	200

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0040,0440,0840,1240,1640,2040	[E]		



**UNITED STATES OF AMERICA**

**Miami (USCG)**

**Region:** IV  
**METAREA:** IV  
**Position:** 25°37'40"N 080°23'37"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[A]		518 kHz	240

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0000,0400,0800,1200,1600,2000	[A]	English	Gale warnings, synopsis and forecast. Local warnings.

**UNITED STATES OF AMERICA**

**New Orleans, Louisiana (USCG)**

**Region:** IV

**METAREA:** IV

**Position:** 29°53'08"N 089°56'73"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[G]		518 kHz	200

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0100,0500,0900,1300,1700,2100	[G]	English	Gale warnings and local weather.

**UNITED STATES OF AMERICA**

**Point Reyes, San Francisco (CAMSPAC)**

**Region:** IV  
**METAREA:** XII  
**Position:** 37°55'53"N 122°43'87"W

Mode Of Transmission	ID SLOT	Frequency	Range
	<b>International</b> <b>National</b>		
MSI	<b>[C]</b>	518 kHz	350

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0020,0420,0820,1220,1620,2020	<b>[C]</b>	English	Gale warnings, coastal forecast for all areas. Synopsis and forecast for Areas 83-85. Notices to Mariners for areas Alameda and Seattle. Electronic Navigation Advisories.

**UNITED STATES OF AMERICA**

**Portsmouth (CAMSLANT)**

**Region:** IV

**METAREA:** IV

**Position:** 36°43'72"N 076°00'60"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[N]		518 kHz	280

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0210,0610,1010,1410,1810,2210	[N]	English	Gale warnings, synopsis and forecast.

**UNITED STATES OF AMERICA (ALASKA)**

**Isabella**

**Region:** IV  
**METAREA:** XII, XVII  
**Position:** 18°28'00"N 067°04'32"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
	[R]		518 kHz	200

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0250,0650,1050,1450,1850,2250	[R]	English	

**UNITED STATES OF AMERICA (ALASKA)**

**Kodiak (East)**

**Region:** IV  
**METAREA:** XII, XVII  
**Position:** 57°46'63"N 152°31'72"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[J]		518 kHz	200

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0130,0530,0930,1330,1730,2130	[J]	English	Gale warnings, synopsis and forecast for Areas east of Kodiak.

**UNITED STATES OF AMERICA (ALASKA)**

**Kodiak (West)**

**Region:** IV  
**METAREA:** XII, XVII  
**Position:** 57°46'63"N 152°31'72"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[X]		518 kHz	200

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0350,0750,1150,1550,1950,2350	[X]	English	Gale warnings, synopsis and forecast for Areas west of Kodiak.

**UNITED STATES OF AMERICA (HAWAII)**

Honolulu (USCG)

**Region:** V  
**METAREA:** XII  
**Position:** 21°26'10"N 158°08'65"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[O]		518 kHz	350

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0220,0620,1020,1420,1820,2220	[O]	English	Gale warnings, forecat for waters up to 100 n miles from the Hawaiian Islands and forecast for waters up to 1000 n miles from Honolulu (up to 30°N).



**URUGUAY****La Paloma****Region:** III**METAREA:** V**Position:** 34°40'00"S 054°09'00"W

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[A]		490 kHz	280
MSI	[F]		518 kHz	280

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0000, 0400, 0800, 1200, 1600, 2000	[A]	Spanish	Near gale warnings and local coastal forecast for areas B and C.
0050, 0450, 0850, 1250, 1650, 2050	[F]	English	Near gale warnings and local coastal forecast for areas B and C.

**VIET NAM****Da Nang Radio****Region:** II**METAREA:** XI**Position:** 16°03'33"N 108°09'42"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[F]		490 kHz	400
MSI	[K]		518 kHz	400

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0050,0450,0850,1250,1650,2050	[F]	Vietnamese	
0140, 1340	[K]	English	
0540, 0940, 1740, 2140	[K]	English	

**VIET NAM****Hai Phong Radio****Region:** II**METAREA:** XI**Position:** 20°51'02"N 106°44'02"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[M]		4 209.5 kHz	--

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0200,0600,1000,1400,1800,2200	[M]	English, Vietnamese	

**VIET NAM****Ho Chi Minh Radio****Region:** II**METAREA:** XI**Position:** 10°23'40"N 107°08'41"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[X]		518 kHz	400

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0350, 1150	[X]	English	
0750, 1550, 1950, 2350	[X]	English	

**VIET NAM****Nha Trang Radio****Region:** II**METAREA:** XI**Position:** 12°13'20"N 109°10'50"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[C]		4 209.5 kHz	--

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0020,0420,0820,1220,1620,2020	[C]	English, Vietnamese	

**VIET NAM****Vung Tau Radio****Region:** II**METAREA:** XI**Position:** 10°23'40"N 107°08'41"E

Mode Of Transmission	ID SLOT		Frequency	Range
	International	National		
MSI	[V]		490 kHz	400

Broadcast Times	ID SLOT	Language/Code Form	Contents of Broadcast
0330,0730,1130,1530,1930,2330	[V]	Vietnamese	



## **PART D**

### **HF NBDP Narrow Band Direct Printing**

*NBDP (Narrow Band Direct Printing) is a telex - communicating with text rather than voice*





## Presentation of Layout

**KENYA**

**MSI Sweden/Stockholm Radio**

Region:	VI
Position:	35°29'00"S 057°10'00"W

METAREA:	I
Area covered:	--

### I. TECHNICAL SPECIFICATIONS – CARACTÉRISTIQUES TECHNIQUES

1	2	3	4	5	6
Mode Of Transmission	Frequency ID	Frequency	Remote Transmitting Site / Call Sign	Hours of Operation	Class of Emission
Radio-Telex	A	1 710 kHz	Grimeton	H24	H3E-J3E
Radio-Telex	B	8 416.5 kHz	Bjuröklubb	0600-1600	H3E-J3E

### II. CONTENTS OF BROADCAST SCHEDULES – CONTENU DES PROGRAMMES DE DIFFUSION

7	8	9	10
Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0030, 1530, 2100	A	Navigational warnings.	English
0300	A-B	Weather bulletins and wave prognosis.	English

## Explanation of the presentation used:

Entries	Explanation
SWEDEN	Country: The schedules are arranged in English alphabetical order of countries, with the name of the country transmitting the broadcast schedule given at the top of the page.
<b>MSI Sweden/Stockholm Radio</b>	The station name of the transmitting centre.
Region	WMO Regions, 1I, II, III, IV, V, VI
01°16'60"S 036°49'00"E	Position of station
METAREA	METAREA I to XXI
Area covered	The area in which the broadcast is intended to be received. This can include geographical co-ordinates or a geographical area.

### I. TECHNICAL SPECIFICATIONS — CARACTÉRISTIQUES TECHNIQUES

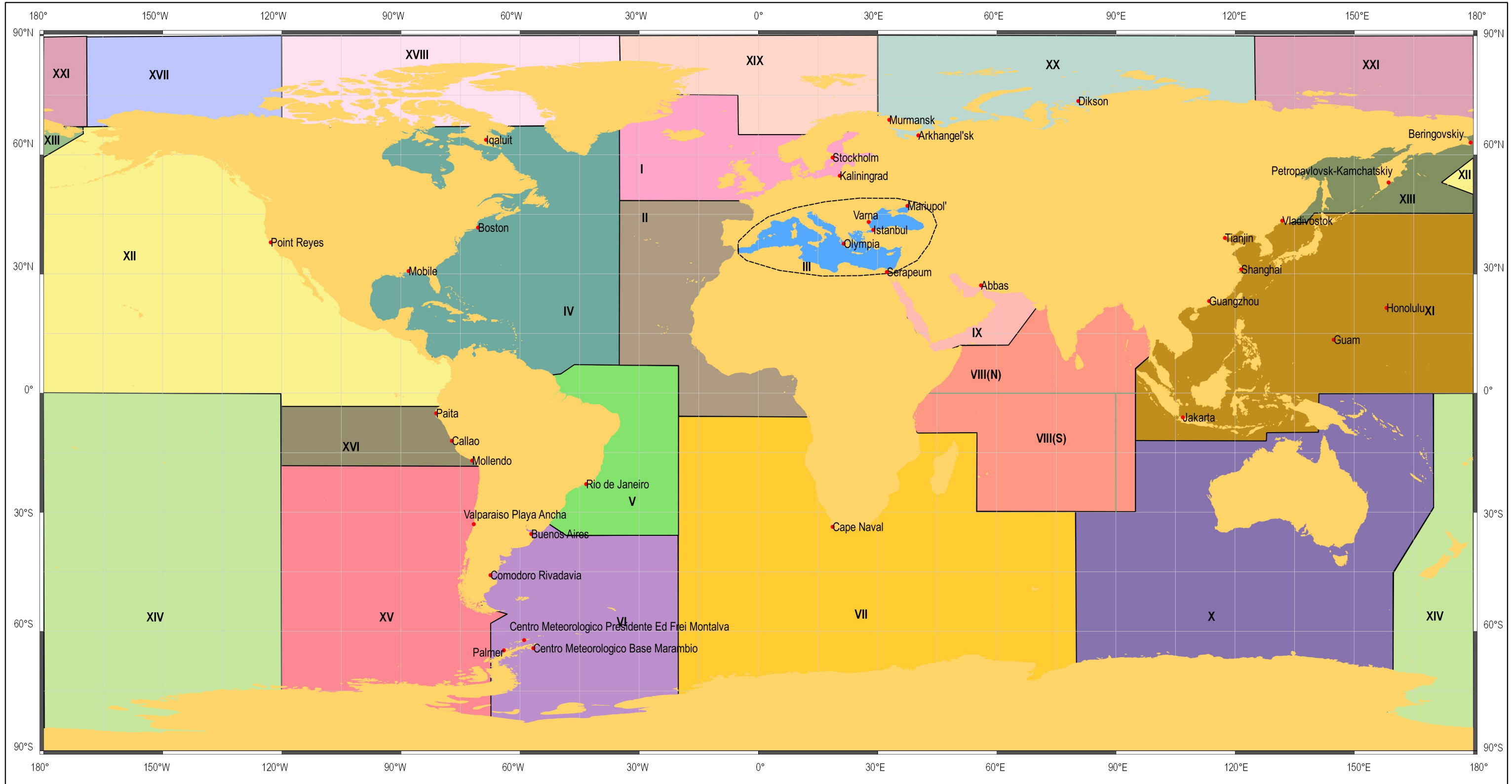
ID	Entries	Explanation
1	<b>Mode Of Transmission</b>	NBDP (Narrow Band Direct Printing) is a telex – communicating with text rather than voice
	Radio-Telex	
2	<b>Frequency ID</b>	Alphabetical letter identifying the frequency used.
	A	
	B	
3	<b>Frequency</b>	Refers to the frequency used
	1 710 kHz	
	8 416.5 kHz	
4	<b>Remote Transmitting Site / Call Sign</b>	Name or call sign of station
	Grimeton	
	Bjuröklubb	
5	<b>Hours of Operation</b>	When appropriate this column indicates the hours of operation, in UTC, of the various frequencies. Any seasonal variations are also shown eg H24, 0600-1600, Summer, June-December
	H24	
	0600-1600	
6	<b>Class of Emission</b>	Specifies the class of emission of the frequencies indicated under the column "Frequency". The following symbols are used:
	H3E-J3E	

### II. CONTENTS OF BROADCAST SCHEDULES — CONTENU DES PROGRAMMES DE DIFFUSION

ID	Entries	Explanation
7	<b>Broadcast Times</b>	This column gives the time at which the transmission is scheduled to begin.
	0030, 1530, 2100	
	0300	
8	<b>Frequency ID</b>	Refers to the Frequency ID used in the Technical Specifications.
	A	
	A-B	
9	<b>Contents of Broadcast</b>	This column specifies details of the content of the broadcast.
	Navigational warnings.	
	Weather bulletins and wave prognosis.	
10	<b>Language/Code Form</b>	Refers to the language or code form used.
	English	

# HF NBDP - NARROW BAND DIRECT PRINTING

Updated: 25/04/2019



**DESIGNATIONS USED:**

The designations employed and the presentation of material in this publication do not imply the expression of any opinion whatsoever on the part of the Secretariat of WMO concerning the legal status of any country, territory, city or area, or of its authorities, or concerning the delimitation of its frontiers or boundaries.



**ARGENTINA****Buenos Aires (PREFECTURA NAVAL)****Region:** III**Position:** 35°29'00"S 057°10'00"W**METAREA:** VI**Area Covered:****I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Mode Of Transmission	Frequency ID	Frequency	Remote Transmitting Site / Call Sign	Hours of Operation	Class of Emission
Radio-Telex	<b>A</b>	4 210 kHz			
Radio-Telex	<b>B</b>	8 416.5 kHz			
Radio-Telex	<b>C</b>	12 579 kHz			
Radio-Telex	<b>D</b>	16 806.5 kHz			

**II. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0030, 1530, 2100	<b>A-D</b>	Navigational warnings.	Spanish, English
0300	<b>A-C</b>	Weather bulletins and wave prognosis.	Spanish, English
1000	<b>A-C</b>	Local and coastal navigational warnings.	Spanish, English
1400	<b>A-D</b>	Weather bulletins and wave prognosis.	Spanish, English
1900	<b>A-D</b>	Local and coastal navigational warnings including numbers of warnings in force.	Spanish, English

**ARGENTINA****Centro Meteorológico Base Marambio****Region:** III**Position:** 64°14'28"S 56°37'36"W**METAREA:** VI**Area Covered:** Antarctic area and surroundings**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Mode Of Transmission	Frequency ID	Frequency	Remote Transmitting Site / Call Sign	Hours of Operation	Class of Emission
Radio-Telex	<b>D</b>	20 732 kHz			
Radio-Telex	<b>C</b>	16 209.5 kHz			
Radio-Telex	<b>B</b>	10 870 kHz			
Radio-Telex	<b>A</b>	4 807 kHz			

**II. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0020	<b>A, B</b>	Maritime forecast for the Antarctic S of 60°S, 20° to 90°W.	Spanish, English
0020, 0320, 0620	<b>A, B</b>	Gale warnings and synopsis.	
0920, 1220	<b>B, C</b>	Gale warnings and synopsis.	
1220	<b>B, C</b>	Maritime forecast for the Antarctic S of 60°S, 20° to 90°W.	Spanish, English
1520	<b>B, D</b>	Gale warnings and synopsis.	
1820, 2120	<b>B, C</b>	Gale warnings and synopsis.	
2120	<b>B, C</b>	Navigational warnings: Ice reports (Tuesdays & Thursdays).	

**ARGENTINA****Comodoro Rivadavia (PREFECTURA NAVAL)****Region:** III**Position:** 45°51'00"S 067°25'00"W**METAREA:** VI**Area Covered:****I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

<b>Mode Of Transmission</b>	<b>Frequency ID</b>	<b>Frequency</b>	<b>Remote Transmitting Site / Call Sign</b>	<b>Hours of Operation</b>	<b>Class of Emission</b>
Radio-Telex	<b>A</b>	4 210 kHz			F1B
Radio-Telex	<b>B</b>	8 416.5 kHz			F1B
Radio-Telex	<b>C</b>	12 579 kHz			F1B
Radio-Telex	<b>D</b>	19 685.5 kHz			F1B

**II. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0530	<b>A</b>	Navigational warnings.	Spanish
1830	<b>B-D</b>	Navigational warnings.	Spanish



**BRAZIL****Rio de Janeiro Naval****Region:** III**Position:** 22°56'00"S 043°20'00"W**METAREA:** V**Area Covered:****I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

<b>Mode Of Transmission</b>	<b>Frequency ID</b>	<b>Frequency</b>	<b>Remote Transmitting Site / Call Sign</b>	<b>Hours of Operation</b>	<b>Class of Emission</b>
Radio data (J2D)	<b>A</b>	4 266 (on request)			F1B
Radio data (J2D)	<b>B</b>	6 448.0 kHz			F1B
Radio data (J2D)	<b>C</b>	8 580 kHz			F1B
Radio data (J2D)	<b>D</b>	12 709.9 kHz			F1B
Radio data (J2D)	<b>E</b>	16 974 kHz			F1B

**II. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0400, 2130	<b>A-E</b>	Navigational warnings: NAVAREA V warnings. Coastal warnings. Local warnings (Portuguese only).	Portuguese, English
0600, 1845	<b>A-E</b>	Weather bulletins.	Portuguese, English

**BULGARIA****Varna Radio****Region:** VI**Position:** 43°04'01"N 027°47'19"E**METAREA:** III**Area Covered:** Mediterranean Sea/Black Sea - Coastal waters of Bulgaria and region of Black Sea**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Mode Of Transmission	Frequency ID	Frequency	Remote Transmitting Site / Call Sign	Hours of Operation	Class of Emission
Radio-Telex	<b>A</b>	4 218.5 kHz			
Radio-Telex	<b>B</b>	12 587 kHz			

**II. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0630, 1830	<b>A,B</b>	Storm warnings, weather summary, 12 hour forecast for coastal waters of Bulgaria and central western region of Black Sea, Area 2. Navigational warnings: For central part of western region of Black Sea, Area 2.	Bulgarian, English
1230	<b>B</b>	Observations from stations at Shabla, Cap Kaliakra, Varna, Cap Emine, Bourgas and Ahtopol.	Bulgarian, English

**CANADA****Iqaluit, Nunavut (MCTS)****Region:** IV**Position:** 63°44'00"N 068°33'00"W**METAREA:** XVII, XVIII**Area Covered:** Arctic coast, Atlantic Coast and S. Lawrence River**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

<b>Mode Of Transmission</b>	<b>Frequency ID</b>	<b>Frequency</b>	<b>Remote Transmitting Site / Call Sign</b>	<b>Hours of Operation</b>	<b>Class of Emission</b>
Radio-Telex	<b>A</b>	8 416.5 kHz			F1B

**II. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0330, 1530	<b>A</b>	METAREA bulletins for METAREAS XVII and XVIII within Canadian waters. NAVAREA warnings for NAVAREAs XVII and XVIII.	

**CHILE****Centro Meteorológico Presidente Eduardo Frei Montalva****Region:** III**Position:** 62°12'03"S 58°57'37"W**METAREA:** XV**Area Covered:** Antarctic area and surroundings**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Mode Of Transmission	Frequency ID	Frequency	Remote Transmitting Site / Call Sign	Hours of Operation	Class of Emission
Radio-Telex	<b>C</b>	15 470 kHz			
Radio-Telex	<b>B</b>	11 662.5 kHz			
Radio-Telex	<b>A</b>	5 302.5 kHz			

**II. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0030, 0330, 0630, 0930, 1230, 1530, 1830, 2130	<b>A-C</b>	Synoptic summary for Antarctic.	
1230, 1830	<b>A-C</b>	Forecast for route to Eduardo Frei Montalva terminal.	
1530, 2130	<b>A-C</b>	Weather forecast for Drake Passage and Bellingshausen Sea.	

**CHILE****Valparaiso Playa Ancha (Radio Centro de Telecomunicaciones Maritimas)****Region:** III**Position:** 33°01'00"S 071°38'00"W**METAREA:** XV**Area Covered:** East Pacific - Ocean areas south of 33°S between 20°W and 70°W.**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Mode Of Transmission	Frequency ID	Frequency	Remote Transmitting Site / Call Sign	Hours of Operation	Class of Emission
Radio-Telex	<b>A</b>	22 380.5 kHz			
Radio-Telex	<b>A</b>	16 814.5 kHz			
Radio-Telex	<b>A</b>	16 811 kHz			
Radio-Telex	<b>A</b>	12 583.5 kHz			
Radio-Telex	<b>A</b>	8 424 kHz			
Radio-Telex	<b>A</b>	8 420.5 kHz			
Radio-Telex	<b>A</b>	4 217.5 kHz			
Radio-Telex	<b>A</b>	4 214.5 kHz			
Radio-Telex	<b>B</b>	12 587 kHz			

**II. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0110	<b>A</b>	Storm warnings, synopsis and forecast for Areas 1-8.	Spanish, English
1210	<b>A</b>	Storm warnings, synopsis and forecast for Areas 1-6.	Spanish, English
1430	<b>A, B</b>	Navigational warnings: NAVAREA XV warnings and coastal warnings (NURNAV).	Spanish, English
1610	<b>A</b>	Storm warnings, synopsis and forecast for Areas 7,8.	Spanish, English
1845	<b>A</b>	Storm warnings, synopsis, 24 hour forecast for Areas 10.	Spanish, English
On request	<b>B</b>	Storm warnings, synopsis and forecast for Areas 1-8.	Spanish, English

**CHINA****Guangzhou****Region:** II**Position:** 23°09'00"N 113°29'00"E**METAREA:** XI**Area Covered:** East/South China Sea  
Taiwan Straits, Bashi Channel, Nanhai Sea and Beibu Wan Gulf (Bac Bo Gulf) (see map)**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Mode Of Transmission	Frequency ID	Frequency	Remote Transmitting Site / Call Sign	Hours of Operation	Class of Emission
Radio-Telex	<b>A</b>	4 219 kHz		1200-0000	
Radio-Telex	<b>B</b>	6 329 kHz		0000-1200	
Radio-Telex	<b>C</b>	8 431 kHz		H24	
Radio-Telex	<b>D</b>	12 622.5 kHz		H24	
Radio-Telex	<b>E</b>	16 854 kHz		H24	

**II. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0120	<b>B-E</b>	Tropical storm warnings, 24 hour forecast. Navigational warnings: For coastal waters of China S of 24°N.	Chinese
0120	<b>B-E</b>	24 hour forecast.	English
0720	<b>B-E</b>	Navigational warnings: For coastal waters of China S of 24°N.	English
1320	<b>A, C-E</b>	24 hour forecast.	English
1320	<b>A, C-E</b>	Tropical storm warnings, 24 hour forecast. Navigational warnings: For coastal waters of China S of 24°N.	Chinese

**CHINA****Shanghai****Region:** II**Position:** 31°06'79"N 121°32'79"E**METAREA:** XI**Area Covered:** East/South China Sea  
Bohai Sea, Huanghai Sea, Donghai Sea, Shanghai Port, Taiwan Straits and sea areas around Taiwan province (see map)**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Mode Of Transmission	Frequency ID	Frequency	Remote Transmitting Site / Call Sign	Hours of Operation	Class of Emission
Radio-Telex	<b>A</b>	4 215 kHz		1000-2200	
Radio-Telex	<b>B</b>	6 326 kHz		2200-1000	
Radio-Telex	<b>C</b>	8 425.5 kHz		H24	
Radio-Telex	<b>D</b>	12 637.5 kHz		H24	
Radio-Telex	<b>E</b>	16 898.5 kHz		H24	

**II. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0250, 0650, 1350, 2350	<b>A-E</b>	Navigational warnings: For coastal waters of China N of 24°N.	Chinese, English

**CHINA****Tianjin****Region:** II**Position:** 39°02'39"N 117°26'95"E**METAREA:** XI**Area Covered:** North and Central Huanghai Sea and the Bohai Sea (see map)**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Mode Of Transmission	Frequency ID	Frequency	Remote Transmitting Site / Call Sign	Hours of Operation	Class of Emission
Radio-Telex	<b>A</b>	8 417.5 kHz		H24	
Radio-Telex	<b>A</b>	4 212.5 kHz		1000-2200	
Radio-Telex	<b>A</b>	12 581.5 kHz		H24	

**II. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0500, 0700, 1200, 1600, 2000, 2300	<b>A</b>	Gale warnings.	Chinese, English
0500, 1200, 2300	<b>A</b>	Navigational warnings: For Bo Hai.	Chinese
0500, 1200, 2300	<b>A</b>	Navigational warnings: For Bo Hai.	Chinese, English
0700	<b>A</b>	Navigational warnings: For Bo Hai.	English



**EGYPT****Serapeum (Ismailia)****Region:** I**Position:** 30°28'00"N 032°22'00"E**METAREA:** IX**Area Covered:****I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

<b>Mode Of Transmission</b>	<b>Frequency ID</b>	<b>Frequency</b>	<b>Remote Transmitting Site / Call Sign</b>	<b>Hours of Operation</b>	<b>Class of Emission</b>
Radio-Telex	<b>A</b>	4 210 kHz			
Radio-Telex	<b>B</b>	6 314 kHz			
Radio-Telex	<b>C</b>	8 416.5 kHz			

**II. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0630	<b>A</b>		
1030	<b>B</b>		
1430	<b>C</b>		

**GREECE****Olympia Radio****Region:** VI**Position:** 37°36'00"N 021°29'00"E**METAREA:** III**Area Covered:** Europe - Mediterranean**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

<b>Mode Of Transmission</b>	<b>Frequency ID</b>	<b>Frequency</b>	<b>Remote Transmitting Site / Call Sign</b>	<b>Hours of Operation</b>	<b>Class of Emission</b>
Radio-Telex	<b>A</b>	8 424 kHz		0930-2130	H3E-J3E

**II. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0930, 2130	<b>A</b>	Weather synopsis, 24 hour forecast and outlook for a further 12 hours for Sea Areas 18-53. Gale warnings for Sea Areas 18-53.	Greek, English

**GUAM****Guam (USCG)****Region:** V**Position:** 13°25'00"N 144°50'00"E**METAREA:** XI**Area Covered:** Pacific area**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Mode Of Transmission	Frequency ID	Frequency	Remote Transmitting Site / Call Sign	Hours of Operation	Class of Emission
Radio-Telex	<b>A</b>	12 579 kHz			
Radio-Telex	<b>B</b>	16 806.5 kHz			
Radio-Telex	<b>C</b>	22 376 kHz			

**II. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0230, 0500, 0900, 1500, 1900, 2315	<b>A-C</b>	Maritime Safety Information.	
0500, 1500, 1900, 2315	<b>A-C</b>	Weather forecast for N Pacific ocean W of 180°. Gale warnings for N Pacific Ocean W of 180° and the Indian Ocean.	

**INDONESIA****Jakarta****Region:** V**Position:** 06°07'15"S 106°51'78"E**METAREA:** XI**Area Covered:****I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Mode Of Transmission	Frequency ID	Frequency	Remote Transmitting Site / Call Sign	Hours of Operation	Class of Emission
Radio-Telex	<b>A</b>	8 416.5 kHz			
Radio-Telex	<b>B</b>	16 806.5			

**II. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0000, 1130	<b>B</b>	Meteorological and navigational warnings.	English
1100	<b>A</b>	Storm warnings, 24 hour forecast, synopsis and analysis for Indonesian waters and China Sea, also Indian and Pacific Oceans. Storm warnings for Indonesian waters and China Sea, also Indian and Pacific Oceans if applicable.	English

**IRAN, ISLAMIC REPUBLIC OF****Abbas****Region:** II**Position:** 27°06'00"N 056°03'00"E**METAREA:** IX**Area Covered:****I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

<b>Mode Of Transmission</b>	<b>Frequency ID</b>	<b>Frequency</b>	<b>Remote Transmitting Site / Call Sign</b>	<b>Hours of Operation</b>	<b>Class of Emission</b>
Radio-Telex	<b>A</b>	4 MHz			
Radio-Telex	<b>B</b>	8 MHz			
Radio-Telex	<b>C</b>	12 MHz			

**II. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0530, 1230	<b>B</b>		
0830, 1030	<b>C</b>		
1430, 1830	<b>A</b>		

**PERU**

**Callao**

**Region:** III

**Position:** 12°01'80"S 077°07'80"W

**METAREA:** XVI

**Area Covered:**

**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

<b>Mode Of Transmission</b>	<b>Frequency ID</b>	<b>Frequency</b>	<b>Remote Transmitting Site / Call Sign</b>	<b>Hours of Operation</b>	<b>Class of Emission</b>
Radio-Telex	A	8 MHz			

**II. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
1600	A		

**PERU**

**Mollendo**

**Region:** III

**Position:** 17°00'30"S 072°01'90"W

**METAREA:** XVI

**Area Covered:**

**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

<b>Mode Of Transmission</b>	<b>Frequency ID</b>	<b>Frequency</b>	<b>Remote Transmitting Site / Call Sign</b>	<b>Hours of Operation</b>	<b>Class of Emission</b>
Radio-Telex	A	8 MHz			

**II. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
2100	A		

**PERU**

**Paita**

**Region:** III

**Position:** 05°05'00"S 081°07'00"W

**METAREA:** XVI

**Area Covered:**

**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

<b>Mode Of Transmission</b>	<b>Frequency ID</b>	<b>Frequency</b>	<b>Remote Transmitting Site / Call Sign</b>	<b>Hours of Operation</b>	<b>Class of Emission</b>
Radio-Telex	A	8 MHz			

**II. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0200	A		



**RUSSIAN FEDERATION (EUROPE)**

Arkhangel'sk

**Region:** VI**Position:** 64°51'00"N 040°17'00"E**METAREA:** XX**Area Covered:** North Atlantic to Barents Sea - Arctic coast**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Mode Of Transmission	Frequency ID	Frequency	Remote Transmitting Site / Call Sign	Hours of Operation	Class of Emission
Radio-Telex	A	446 kHz	UGE		

**II. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0510, 0530, 1710, 1730	A	Navigational warnings: Coastal warnings for Beloye More (White Sea).	Russian

**RUSSIAN FEDERATION (EUROPE)****Kaliningrad****Region:** VI**Position:** 54°42'00"N 20°30'00"E**METAREA:** I**Area Covered:** Baltic Coast**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

<b>Mode Of Transmission</b>	<b>Frequency ID</b>	<b>Frequency</b>	<b>Remote Transmitting Site / Call Sign</b>	<b>Hours of Operation</b>	<b>Class of Emission</b>
Radio-Telex	<b>C</b>	12 877.5 kHz			
Radio-Telex	<b>D</b>	16 927 kHz			
Radio-Telex	<b>A</b>	4 228 kHz			
Radio-Telex	<b>B</b>	8 454 kHz			

**II. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
1000, 1620	<b>A-D</b>	Navigational warnings: NAVIP and NAVAREA (inshore warnings) for areas I, II, IV, V and VI.	

**RUSSIAN FEDERATION (EUROPE)****Murmansk****Region:** VI**Position:** 68°46'00"N 032°58'00"E**METAREA:** I**Area Covered:** Arctic Coast - North Atlantic to Barents Sea**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Mode Of Transmission	Frequency ID	Frequency	Remote Transmitting Site / Call Sign	Hours of Operation	Class of Emission
Radio-Telex	<b>B</b>	6 393.5 kHz	UDK2		
Radio-Telex	<b>A</b>	521.5 kHz	UDK		
Radio-Telex	<b>C</b>	13 050 kHz	UDK2		

**II. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0400, 1730	<b>A-C</b>	Navigational warnings: For Greenland Sea N of 71°N, Karskoye More and Barents Sea (excluding Ostrov Zemlya Frantsa-Losifa).	Russian
0420, 1740	<b>A-C</b>	Situation and synopsis, forecast and wave forecast for Barents Sea (except SE part), Norwegian coast, Kok'skiy Poluostrov and Kol'skiy Zaliv.	Russian

**RUSSIAN FEDERATION (IN ASIA)****Beringovskiy****Region:** II**Position:** 63°02'59"N 179°18'36"E**METAREA:** XIII**Area Covered:** West Pacific/Sea of Japan**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Mode Of Transmission	Frequency ID	Frequency	Remote Transmitting Site / Call Sign	Hours of Operation	Class of Emission
Radio-Telex	A	2 182 kHz			

**II. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
Continuous broadcast	A	24 hour weather forecast for Port Beringovskiy and coastal waters out to 20 n miles from Anadyrskiy Liman to Bukhta Dezhneva.	Russian

**RUSSIAN FEDERATION (IN ASIA)****Dikson****Region:** II**Position:** 73°30'00"N 80°33'00"E**METAREA:** XX**Area Covered:** Arctic Coast**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Mode Of Transmission	Frequency ID	Frequency	Remote Transmitting Site / Call Sign	Hours of Operation	Class of Emission
Radio-Telex	A	428.6 kHz			

**II. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0818, 2018	A	Navigational warnings: Coastal warnings for Karskoye More (including Ostrov Zemlya Frantsa-losifa) and More Laptevykh to 125°E.	Russian

**RUSSIAN FEDERATION (IN ASIA)****Petropavlovsk-Kamchatskiy****Region:** II**Position:** 53°00'00"N 158°40'00"E**METAREA:** XIII**Area Covered:** Pacific coast**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Mode Of Transmission	Frequency ID	Frequency	Remote Transmitting Site / Call Sign	Hours of Operation	Class of Emission
Radio-Telex	<b>A</b>	4 210 kHz			
Radio-Telex	<b>B</b>	4 233 kHz			
Radio-Telex	<b>C</b>	6 314 kHz			
Radio-Telex	<b>D</b>	6 360.5 kHz			
Radio-Telex	<b>E</b>	8 451 kHz			
Radio-Telex	<b>F</b>	12 579 kHz			
Radio-Telex	<b>G</b>	12 603 kHz			
Radio-Telex	<b>H</b>	17 045 kHz			

**II. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0000, 0700	<b>B, D, E, G, H</b>	Navigational warnings: List of numbers of coastal warnings in force.	English
0900	<b>A, C, F</b>	Navigational warnings: NAVAREA XIII warnings and list of numbers of coastal warnings in force	English
0900, 2100	<b>A, C, F</b>	Summary and synopsis for 24 hours, weather forecasts and sea state for 12 hours and forecast for next 24 hours for Penzhinskaya Guba, E part of Zaliv Shelikhova for coastal waters of Poluostrov Kamchatka and Komandorskiy Ostrova (in Okhotskoye More and Bering Sea).	
2100	<b>A, C</b>	Navigational warnings: NAVAREA XIII warnings.	English

**RUSSIAN FEDERATION (IN ASIA)****Vladivostok****Region:** II**Position:** 43°23'00"N 131°54'00"E**METAREA:** XIII**Area Covered:** West Pacific/Sea of Japan**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

<b>Mode Of Transmission</b>	<b>Frequency ID</b>	<b>Frequency</b>	<b>Remote Transmitting Site / Call Sign</b>	<b>Hours of Operation</b>	<b>Class of Emission</b>
Radio-Telex	<b>A</b>	3 165 kHz	UFL		
Radio-Telex	<b>B</b>	8 595 kHz	UFL		
Radio-Telex	<b>C</b>	12 729 kHz	UFL		
Radio-Telex	<b>D</b>	17 175.2 kHz	UFL		
Radio-Telex	<b>E</b>	4 241 kHz	UFZ		
Radio-Telex	<b>F</b>	6 314 kHz	UFZ		
Radio-Telex	<b>G</b>	6 460 kHz	UFZ		
Radio-Telex	<b>H</b>	8 416.5 kHz	UFZ		
Radio-Telex	<b>I</b>	8 643 kHz	UFZ		
Radio-Telex	<b>J</b>	12 579 kHz	UFZ		
Radio-Telex	<b>K</b>	12 799.5 kHz	UFZ		
Radio-Telex	<b>L</b>	16 806.5 kHz	UFZ		
Radio-Telex	<b>M</b>	17 155 kHz	UFZ		

**RUSSIAN FEDERATION (IN ASIA)**
**II. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0200	<b>F, J, L</b>	Storm warnings for Sea of Japan N of 42°N and NW Pacific Ocean from Kuril'skiye Ostrova to meridian 180° and N of 45°N. Storm warnings for Russian coastal waters in the Sea of Japan. List of numbers of current NAVAREA XIII warnings, list of numbers of current coastal warnings for NAVAREAS XII.	English
0200	<b>F, J, L</b>	24 hour weather forecast for Russian coastal waters in the Sea of Japan.	English
0900	<b>E, G, I, K</b>	Storm warnings for Sea of Japan including Tsugaru Kaikyo. Coastal warnings for Russian waters in the Sea of Japan, Tatarskiy Proliv, the SW part of Sea of Okhotsk to Zaliv Ayan; for the areas around Ostrov Sakhalin, including Proliv Laperuya and around the S part of Kuril'skiye Ostrova to the tip of Ostrov Ketoy.	Russian
0900	<b>E, G, I, K</b>	Synopsis for current 24 hour period, 12 hour wether forecast and se state for Sea of Japan including Tsugaru Kaikyo.	Russian
1100, 2300	<b>A-D</b>	24 hour weather forecast, for Okhotskoye More, Bering Sea, Sea of Japan N of 42° and NW Pacific Ocean from Kuril'skiye Ostrova to 180°E/W to N of 45°N.	English
1100, 2300	<b>A-D</b>	Storm warnings for Okhotskoye More, Bering Sea, Sea of Japn N of 42° and NW Pacific Ocean from Kuril'skiye Ostrova to 180° to N of 45°N. Storm warnings for Russian coastal waters in the Sea of Japan. List of numbers of NAVAREA XIII warnings in force. List of numbers NAVAREA XIII warnings. List of number of coastal warnings for NAVAREA XIII in force. Coastal warnings.	English
1130	<b>A-D</b>	Synopsis, weather and wave forecast for 24 hours for Sea of Japan.	Russian
1130, 2330	<b>A-D</b>	Storm warnings for Sea of Japan. List of numbers of numbers of coastal warnings for NAVAREA XIII warnings in force. Repeat of broadcast by Vladivostok (UFZ) and Petropavlovsk-Kamchatskiy. Coastal warnings. Repeat of broadcast by Vladivostok (UFZ) and Petropavlovsk-Kamchatskiy. List of numbers of NAVAREA XIII warnings. List of numbers of current NAVAREA XIII and NAVIP warnings.	Russian
2300	<b>E, G, K, M</b>	Storm warnings for Sea of japan including Tsugaru Kaikyo. Coastal warnings for Russian waters in the Sea of Japan, Tatarskiy Proliv, the SW part of Sea of Okhotsk to Zaliv Ayan; for the areas around Ostrov Sakhalin, including Proliv Laperuya and around the S part of Kuril'skiye Ostrova to the s tip of ostrov Ketoy.	Russian
2300	<b>E, G, K, M</b>	Synopsis for current 24 hour period, 24 hour wether forecast and se state for Sea of Japan including Tsugaru Kaikyo.	Russian
2330	<b>A-D</b>	Synopsis, weather and wave forecast for 12 hours for Sea of Japan.	Russian
2330 (Sun)	<b>A-D</b>	List of numbers of current NAVAREA XIII and NAVIP warnings in force for areas X-XII and XIV for the last 6 weeks.	Russian

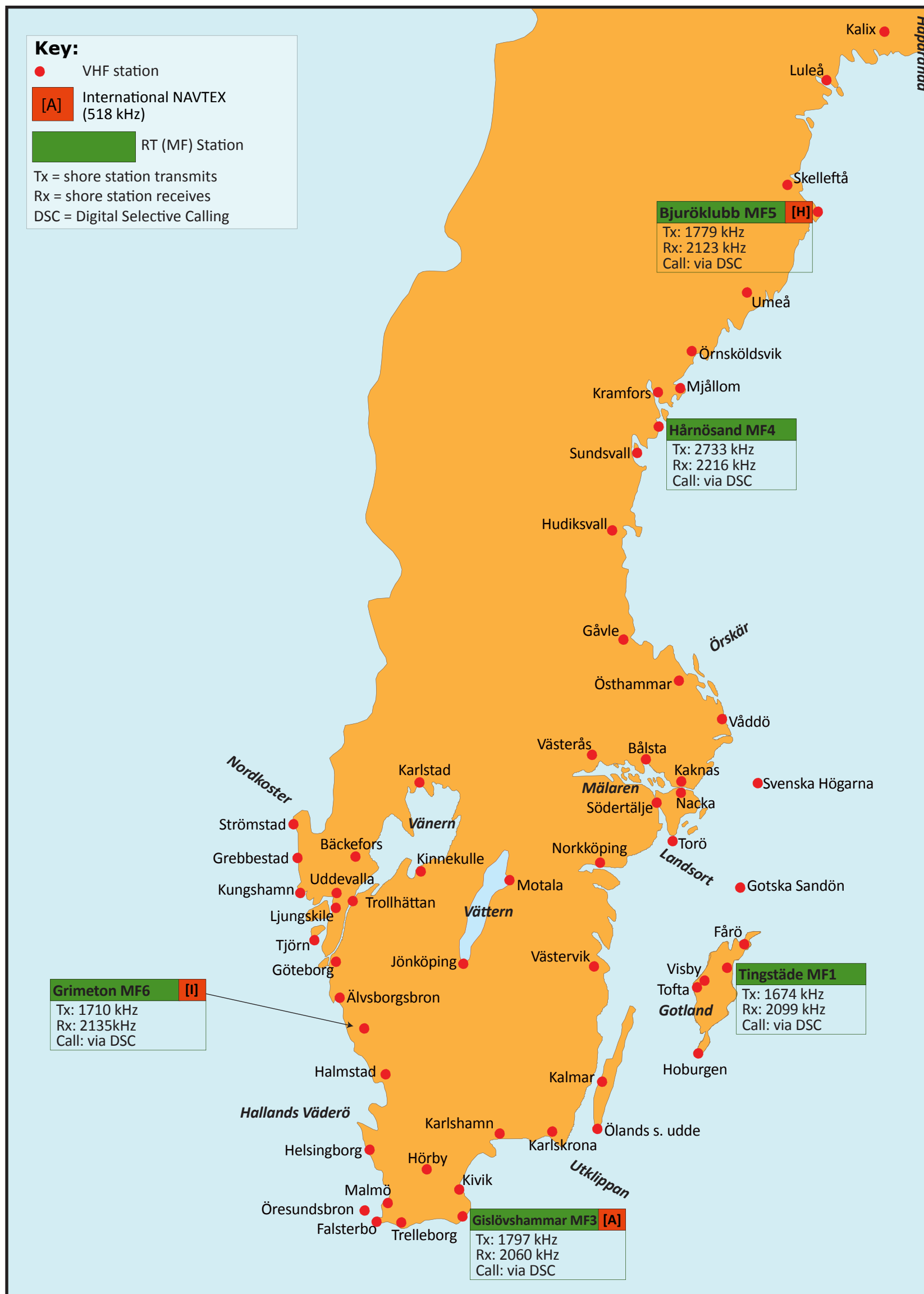


**SOUTH AFRICA****Cape Naval****Region:** I**Position:** 33°41'00"S 018°43'00"E**METAREA:** VII**Area Covered:****I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

<b>Mode Of Transmission</b>	<b>Frequency ID</b>	<b>Frequency</b>	<b>Remote Transmitting Site / Call Sign</b>	<b>Hours of Operation</b>	<b>Class of Emission</b>
Radio-Telex	<b>A</b>	4 014 kHz		0600-1600	
Radio-Telex	<b>B</b>	7 508 kHz		H24	
Radio-Telex	<b>C</b>	13 538 kHz		H24	
Radio-Telex	<b>D</b>	18 238 kHz			

**II. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0930, 1700	<b>A-D</b>	Forecast for coastal waters and adjacent high seas. Synopsis for high seas.	



The designations employed and the presentation of material in this publication do not imply the expression of any opinion whatsoever on the part of the Secretariat of WMO concerning the legal status of any country, territory, city or area, or of its authorities, or concerning the delimitation of its frontiers or boundaries.

**SWEDEN****MSI Sweden/Stockholm Radio****Region:** VI**Position:** 59°17'00"N 18°43'00"E**METAREA:** I**Area Covered:** Skagerrak, Kattegat, the Sound and the Belts, Baltic, Sea of Aland and Archipelago Sea, Gulf of Bothnia (see map)**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Mode Of Transmission	Frequency ID	Frequency	Remote Transmitting Site / Call Sign	Hours of Operation	Class of Emission
Radio-Telex	<b>A</b>	1 710 kHz	Grimeton		
Radio-Telex	<b>A</b>	1 779 kHz	Bjuröklubb		
Radio-Telex	<b>A</b>	1 797 kHz	Gislövshammar		
Radio-Telex	<b>A</b>	1674 kHz	Tingstäde		
Radio-Telex	<b>A</b>	2 733 kHz	Hårnösand		

**II. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0200, 0600, 1000, 1400, 1800, 2200	<b>A</b>	Navigational warnings.	
0600, 1800	<b>A</b>	Weather summary	

NOTE: Broadcast by Stockholm Radio on VHF during period 1 May to 30 September.

**TURKEY****Istanbul****Region:** VI**Position:** 41°04'00"N 028°57'00"E**METAREA:** III**Area Covered:****I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

<b>Mode Of Transmission</b>	<b>Frequency ID</b>	<b>Frequency</b>	<b>Remote Transmitting Site / Call Sign</b>	<b>Hours of Operation</b>	<b>Class of Emission</b>
Radio-Telex	<b>A</b>	4 560 kHz			
Radio-Telex	<b>B</b>	8 431 kHz			
Radio-Telex	<b>C</b>	12 654 kHz			

**II. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0800, 2000	<b>A-C</b>	Weather forecast for Areas 12-27.	Turkish, English

**UKRAINE****Mariupol'****Region:** VI**Position:** 47°06'00"N 37°33'00"E**METAREA:** III**Area Covered:** Mediterranean Sea/Black Sea**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Mode Of Transmission	Frequency ID	Frequency	Remote Transmitting Site / Call Sign	Hours of Operation	Class of Emission
Radio-Telex	<b>B</b>	6 326.5 kHz			
Radio-Telex	<b>B</b>	8 422.5 kHz			
Radio-Telex	<b>B</b>	12 615 kHz			
Radio-Telex	<b>B</b>	16 829 kHz			

**II. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0330	<b>A</b>	12 hour weather sea state forecast for Sea of Azov and Kerchenskiy Proliv to a line between Mys Takil' and Mys Panagiya.	Russian repeated in MARFOR FM 61
0930	<b>A</b>	24 hour weather and sea state forecast for Sea of Azov. Navigational warnings: Ice conditions for Sea of Azov	Russian repeated in MARFOR FM 61
On receipt 0233, 0633, 1033, 1433, 1833, 2233 On request	<b>A</b>	Navigational warnings: For Sea of Azov.	Russian, English

**UNITED STATES OF AMERICA****Boston, Massachusetts (USCG)****Region:** IV**Position:** 41°39'00"N 070°33'00"W**METAREA:** IV**Area Covered:** Atlantic area**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Mode Of Transmission	Frequency ID	Frequency	Remote Transmitting Site / Call Sign	Hours of Operation	Class of Emission
Radio-Telex	<b>A</b>	6 314 kHz			
Radio-Telex	<b>B</b>	8 416.5 kHz			
Radio-Telex	<b>C</b>	12 579 kHz			
Radio-Telex	<b>D</b>	16 806.5 kHz			

**II. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

Broadcast Times	Frequency ID	Contents of Broadcast	Language/Code Form
0030 (Feb-July approx)	<b>A-C</b>	Navigational warnings: International Ice Patrol Bulletin. Ice chart available on request.	
0140	<b>A-C</b>	Gale warnings, 24 hour forecast or North Atlantic, W of 35°W, including the Caribbean Sea and Gulf of Mexico. Navigational warnings.	
1218 (Feb-July approx)	<b>B-D</b>	Navigational warnings: International Ice Patrol Bulletin. Ice chart available on request.	
1630	<b>B-D</b>	Gale warnings, 24 hour forecast or North Atlantic, W of 35°W, including the Caribbean Sea and Gulf of Mexico. Navigational warnings.	

**UNITED STATES OF AMERICA****Mobile (USCG)****Region:** IV**Position:** 30°42'00"N 88°02'00"W**METAREA:** IV**Area Covered:** Gulf coast**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

<b>Mode Of Transmission</b>	<b>Frequency ID</b>	<b>Frequency</b>	<b>Remote Transmitting Site / Call Sign</b>	<b>Hours of Operation</b>	<b>Class of Emission</b>
Radio-Telex	<b>A</b>	4 213 kHz		H24	
Radio-Telex	<b>B</b>	6 317 kHz		H24	
Radio-Telex	<b>C</b>	8 419 kHz		H24	
Radio-Telex	<b>D</b>	8 421 kHz		H24	
Radio-Telex	<b>E</b>	8 423.5 kHz		H24	
Radio-Telex	<b>F</b>	12 581.5 kHz		H24	
Radio-Telex	<b>G</b>	12 584.5 kHz		H24	
Radio-Telex	<b>H</b>	16 809 kHz		H24	
Radio-Telex	<b>I</b>	16 814 kHz		H24	
Radio-Telex	<b>J</b>	19 685.5 kHz		H24	
Radio-Telex	<b>K</b>	22 383.5 kHz		H24	
Radio-Telex	<b>L</b>	26 105.5 kHz		H24	

**II. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0500, 1100, 1700, 2300	<b>A-L</b>	Forecast for Gulf of Mexico, Southwest North Atlantic and Caribbean.	

**UNITED STATES OF AMERICA****Palmer Station****Region:** IV**Position:** 64°46'27"S 64°03'10"W**METAREA:** ANTARCTICA**Area Covered:** Antarctic area and surroundings**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

<b>Mode Of Transmission</b>	<b>Frequency ID</b>	<b>Frequency</b>	<b>Remote Transmitting Site / Call Sign</b>	<b>Hours of Operation</b>	<b>Class of Emission</b>
Radio-Telex	<b>C</b>	13 553 kHz			
Radio-Telex	<b>B</b>	10 235 kHz			
Radio-Telex	<b>A</b>	4 553 kHz			

**II. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0100	<b>A</b>	Navigational warnings: Ice reports for 60°W-20°E.	
1500	<b>C</b>	Navigational warnings: Ice reports for 60°W-20°E.	
2000	<b>B</b>	Navigational warnings: Ice reports for 60°W-20°E.	



**UNITED STATES OF AMERICA****Point Reyes, San Francisco (CAMSPAC)****Region:** IV**Position:** 37°55'53"N 122°43'87"W**METAREA:** XII**Area Covered:** Pacific coast**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

<b>Mode Of Transmission</b>	<b>Frequency ID</b>	<b>Frequency</b>	<b>Remote Transmitting Site / Call Sign</b>	<b>Hours of Operation</b>	<b>Class of Emission</b>
Radio-Telex	<b>A</b>	8 416.5 kHz			
Radio-Telex	<b>B</b>	16 806.5 kHz			

**II. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0015, 1730	<b>A, B</b>	High Seas forecast for NE Pacific - Equator to 30°N and E of 140°W and mid Pacific. Navigational Warnings.	

**UNITED STATES OF AMERICA (HAWAII)****Honolulu****Region:** V**Position:** 21°26'00"N 158°09'00"E**METAREA:** XII**Area Covered:** Pacific area**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

<b>Mode Of Transmission</b>	<b>Frequency ID</b>	<b>Frequency</b>	<b>Remote Transmitting Site / Call Sign</b>	<b>Hours of Operation</b>	<b>Class of Emission</b>
Radio-Telex	<b>A</b>	8 416.5 kHz			
Radio-Telex	<b>B</b>	12 579 kHz			
Radio-Telex	<b>C</b>	22 376 kHz			

**II. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

<b>Broadcast Times</b>	<b>Frequency ID</b>	<b>Contents of Broadcast</b>	<b>Language/Code Form</b>
0130, 2030	<b>A-C</b>	High seas forecast for Pacific Ocean. Navigational warnings: Maritime Safety Information.	
0730, 1330	<b>A,B</b>	High seas forecast for Pacific Ocean. Navigational warnings: Maritime Safety Information.	

**PART E**

**METEOROLOGICAL BROADCASTS BY RADIO-FACSIMILE**



# Meteorological Broadcasts by Radio-Facsimile

This part contains the facsimile broadcast transmissions of meteorological charts of interest to shipping and fisheries. The following presentation has been adopted for each schedule:

## Presentation of Layout

### KENYA

<b>Nairobi</b>	Region:	I
	Position:	01°16'60"S 036°49'00"E
METAREA:	VIII(S)	
Area covered:	--	

### I. TECHNICAL SPECIFICATIONS – CARACTÉRISTIQUES TECHNIQUES

1	2	3	4	5	6
Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
9 043 kHz	5YE 1	F3C	White/black ± 400 kHz	10 kW	H24
17 445 kHz	5YE 2	F3C	White/black ± 400 kHz	10 kW	H24

### II. MAP AREA – ZONE COUVERTE PAR LA CARTE

7	8	9	10
Area	Area Coverage	Projection	Scale
A	30°N-30°S; 05°W-70°E	Mercator	1: 15.000.000 at 22°30'
B	55°N-35°S; 20°W-90°E	Mercator	1: 25.000.000 at 22°30'

### III. CONTENTS OF BROADCAST SCHEDULES – CONTENU DES PROGRAMMES DE DIFFUSION

11	12	13	14	15	16
Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
0010(12), 0600(18), 1037(00), 1742(06)	Sigwx FL250	B	120/576		HKNC
0100(00)	Sigwx below FL240 (1200) - Form No. 585A	B	120/576		HKNC

## Explanation of the presentation used:

Entries	Explanation
KENYA	Country: The schedules are arranged in English alphabetical order of countries, with the name of the country transmitting the broadcast schedule given at the top of the page.
Nairobi	The station name of the transmitting centre.
Region	WMO Regions, 1I, II, III, IV, V, VI
01°16'60"S 036°49'00"E	Position of station
METAREA	METAREA I to XXI
Area covered	The area in which the broadcast is intended to be received. This can include geographical coordinates or a geographical area.

### I. TECHNICAL SPECIFICATIONS — CARACTÉRISTIQUES TECHNIQUES

ID	Entries	Explanation
1	<b>Frequency</b>	Refers to the centre value about which the frequency shift takes place.
	9 043 kHz	
	17 445 kHz	
2	<b>Call Sign</b>	Can either be the Name of the call sign of the Station
	5YE 1	
	5YE 2	
3	<b>Class of Emission</b>	Specifies the class of emission of the frequencies indicated under the column "Frequency". The following symbols are used:  <b>AMPLITUDE MODULATION</b> <hr/> A1A Telegraphy without the use of a modulating audio frequency (by on-off keying) A2A Telegraphy by the on-off keying of an amplitude-modulating audio frequency of audio frequencies, or by the on-off keying of the modulated emission (special case: an unkeyed emission amplitude modulated) A3E Telephony, double sideband R3E Telephony, single sideband, reduced carrier H3E Telephony, single sideband, full carrier J3E Telephony, single sideband, suppressed carrier B9W Combination of telephony and telegraphy (two independent sidebands)  <b>FREQUENCY MODULATION</b> <hr/> F1B Telegraphy by frequency shift keying without the use of a modulating audio frequency, one of two frequencies being emitted at any instant F3E Telephony, by direct frequency modulation of the carrier
	F3C	
4	<b>Band Width</b>	Frequency shift.
	White/black ± 400 kHz	
5	<b>Power Supplied to the Antenna</b>	Power supplied to the antenna.
	10 kW	
6	<b>Hours of Operation</b>	When appropriate this column indicates the hours of operation, in UTC, of the various frequencies. Any seasonal variations are also shown eg H24, 0600-1600, Summer, June-December
	H24	

## II. MAP AREA — ZONE COUVERTE PAR LA CARTE

ID	Entries	Explanation			
7	<table border="1" style="width: 100%;"> <tr><th style="text-align: center;">Area</th></tr> <tr><td style="text-align: center;">A</td></tr> <tr><td style="text-align: center;">B</td></tr> </table>	Area	A	B	Letters or numbers or words indicate the map area
Area					
A					
B					
8	<table border="1" style="width: 100%;"> <tr><th style="text-align: center;">Area Coverage</th></tr> <tr><td style="text-align: center;">30°N-30°S; 05°W-70°E</td></tr> <tr><td style="text-align: center;">55°N-35°S; 20°W-90°E</td></tr> </table>	Area Coverage	30°N-30°S; 05°W-70°E	55°N-35°S; 20°W-90°E	Geographical coordinates of the map corners.
Area Coverage					
30°N-30°S; 05°W-70°E					
55°N-35°S; 20°W-90°E					
9	<table border="1" style="width: 100%;"> <tr><th style="text-align: center;">Projection</th></tr> <tr><td style="text-align: center;">Mercator</td></tr> </table>	Projection	Mercator	Projection type eg Mercator, Lambert's Conical Orthomorphic, Polar Stereographic	
Projection					
Mercator					
10	<table border="1" style="width: 100%;"> <tr><th style="text-align: center;">Scale</th></tr> <tr><td style="text-align: center;">1: 15.000.000 at 22°30'</td></tr> <tr><td style="text-align: center;">1: 25.000.000 at 22°30'</td></tr> </table>	Scale	1: 15.000.000 at 22°30'	1: 25.000.000 at 22°30'	Indicates the scale of the map eg. 1:6,000,000 true at 60°N (45 cm x 55 cm)
Scale					
1: 15.000.000 at 22°30'					
1: 25.000.000 at 22°30'					

## III. CONTENTS OF BROADCAST SCHEDULES — CONTENU DES PROGRAMMES DE DIFFUSION

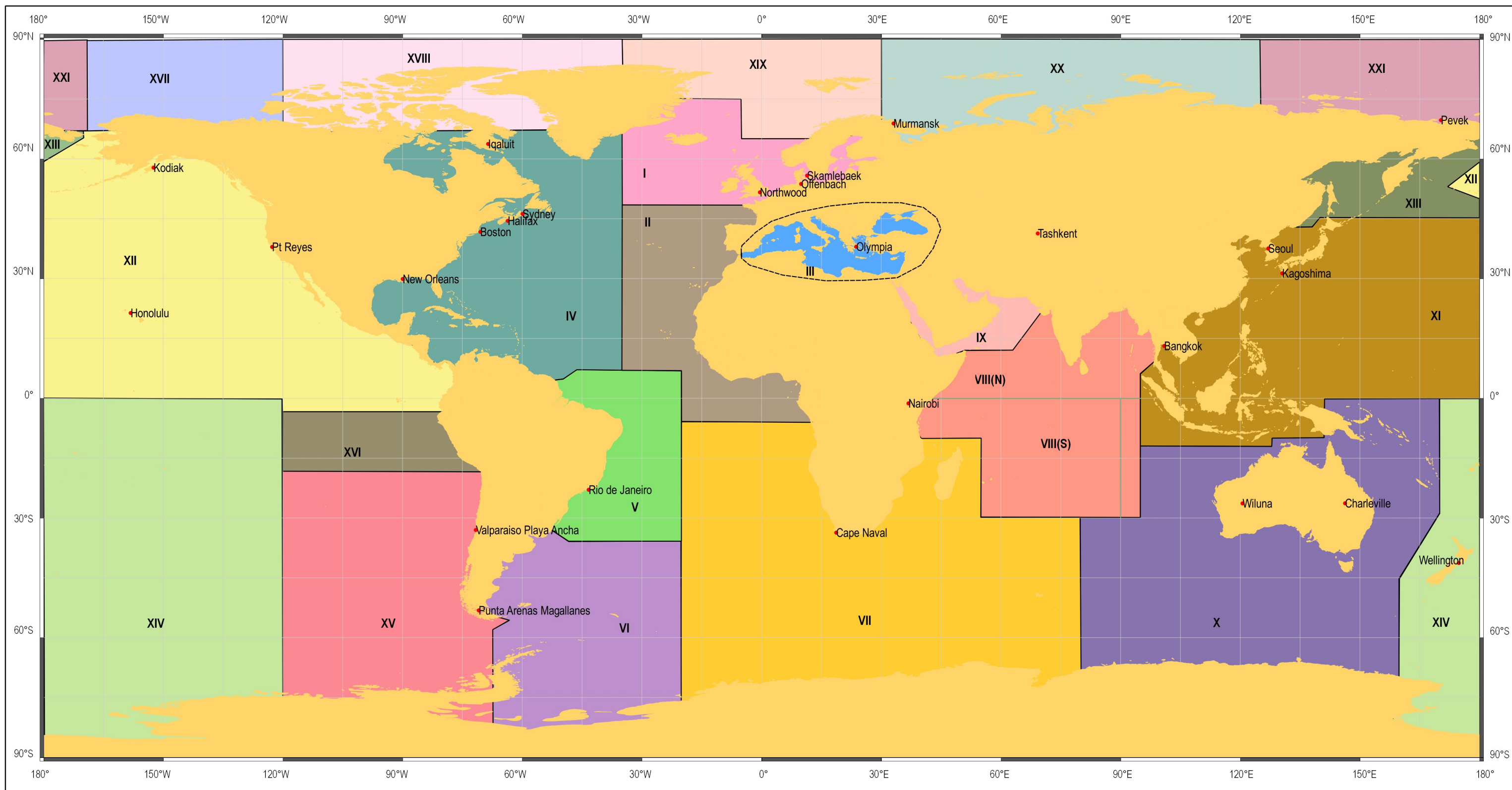
ID	Entries	Explanation			
11	<table border="1" style="width: 100%;"> <tr><th style="text-align: center;">Transmission Time (Time Group) (UTC)</th></tr> <tr><td style="text-align: center;">0010(12), 0600(18), 1037(00), 1742(06)</td></tr> <tr><td style="text-align: center;">0100(00)</td></tr> </table>	Transmission Time (Time Group) (UTC)	0010(12), 0600(18), 1037(00), 1742(06)	0100(00)	This column gives the time at which the transmission is scheduled to begin. The times at which the observations contained in the chart were made are presented in parentheses.
Transmission Time (Time Group) (UTC)					
0010(12), 0600(18), 1037(00), 1742(06)					
0100(00)					
12	<table border="1" style="width: 100%;"> <tr><th style="text-align: center;">Details of Chart</th></tr> <tr><td style="text-align: center;">Sigwx FL250</td></tr> <tr><td style="text-align: center;">Sigwx below FL240 (1200) - Form No. 585A</td></tr> </table>	Details of Chart	Sigwx FL250	Sigwx below FL240 (1200) - Form No. 585A	This column specifies details of the content of the chart eg: H+24 surface prognosis / Indian Ocean analysis / Test chart
Details of Chart					
Sigwx FL250					
Sigwx below FL240 (1200) - Form No. 585A					
13	<table border="1" style="width: 100%;"> <tr><th style="text-align: center;">Map Area</th></tr> <tr><td style="text-align: center;">B</td></tr> </table>	Map Area	B	For each chart transmitted this column gives a letter/digit which corresponds to the area covered. The map areas corresponding to the letters are indicated at the beginning of the schedule. (See <b>II. MAP AREA — ZONE COUVERTE PAR LA CARTE</b> )	
Map Area					
B					
14	<table border="1" style="width: 100%;"> <tr><th style="text-align: center;">Drum Speed</th></tr> <tr><td style="text-align: center;">120/576</td></tr> </table>	Drum Speed	120/576	This relates to the drum speed, in revolutions per minute, and the Index of Co-operation, which is generally 576.	
Drum Speed					
120/576					
15	TTAAii	Abbreviated heading - data type and geographical designators.			
16	<table border="1" style="width: 100%;"> <tr><th style="text-align: center;">CCCC</th></tr> <tr><td style="text-align: center;">HKNC</td></tr> </table>	CCCC	HKNC	International four letter location indicator of the centre originating the chart.	
CCCC					
HKNC					





# RADIO-FACSIMILE TRANSMITTING WEATHER PRODUCTS

Updated: 25/04/2019



**DESIGNATIONS USED:**

The designations employed and the presentation of material in this publication do not imply the expression of any opinion whatsoever on the part of the Secretariat of WMO concerning the legal status of any country, territory, city or area, or of its authorities, or concerning the delimitation of its frontiers or boundaries.



# AUSTRALIA

Radio-Facsimile - Coastal Waters

7 February 2019

## Forecast area names

- 1 Torres Strait
- 2 Peninsula Coast
- 3 Cooktown Coast
- 4 Cairns Coast
- 5 Townsville Coast
- 6 Mackay Coast
- 7 Capricornia Coast
- 8 Fraser Island Coast
- 9 Sunshine Coast Waters
- 10 Gold Coast Waters
- 11 Byron Coast
- 12 Coffs Coast
- 13 Macquarie Coast
- 14 Hunter Coast
- 15 Sydney Coast
- 16 Illawarra Coast
- 17 Batemans Coast
- 18 Eden Coast
- 19 East Gippsland Coast
- 20 Central Gippsland Coast
- 21 Central Coast
- 22 Central North Coast
- 23 Banks Strait and Franklin Sound
- 24 East of Flinders Island
- 25 Upper East Coast
- 26 Lower East Coast
- 27 South East Coast
- 28 South West Coast
- 29 Central West Coast
- 30 Far North West Coast
- 31 West Coast
- 32 Lower South East Coast
- 33 Upper South East Coast
- 34 South Central Coast
- 35 Investigator Strait
- 36 Gulf St Vincent
- 37 Central Coast
- 38 Spencer Gulf
- 39 Lower West Coast
- 40 Upper West Coast
- 41 Far West Coast
- 42 Eucla Coast
- 43 Esperance Coast
- 44 Albany Coast
- 45 Leeuwin Coast
- 46 Bunbury/Geographe Coast
- 47 Perth Local Waters
- 48 Perth Coast
- 49 Lancelin Coast
- 50 Geraldton Coast
- 51 Gascoyne Coast
- 52 Ningaloo Coast
- 53 Pilbara Coast West
- 54 Pilbara Coast East
- 55 West Kimberley Coast
- 56 North Kimberley Coast
- 57 Beagle Bonaparte Coast
- 58 North Tiwi Coast
- 59 Arafura Coast
- 60 Gove Peninsula Coast
- 61 Roper Groote Coast
- 62 South East Gulf of Carpentaria
- 63 North East Gulf of Carpentaria



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**AUSTRALIA****Charleville (Queensland)**

**Region:** V  
**Position:** 26°19'00"S 146°16'00"E

**METAREA:** X

**Area of reception:** Southwards from 10N, 70E - 150W

**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
5 100 kHz	VMC	F3C	white +400 Hz, black -400 Hz	1 kW	0000-2400
11 030 kHz	VMC	F3C	white +400 Hz, black -400 Hz	1 kW	0000-2400
13 920 kHz	VMC	F3C	white +400 Hz, black -400 Hz	1 kW	0000-2400
20 469 kHz	VMC	F3C	white +400 Hz, black -400 Hz	1 kW	1900-0900
2 628 kHz	VMC	F3C	white +400 Hz, black -400 Hz	1 kW	0900-1900

**II. MAP AREA - ZONE COUVERTE PAR LA CARTE**

Area	Area Coverage	Projection	Scale
A	30N-36S, 120E-176E	Mercator	
B	30N-37S, 20E-123E	Mercator	
C	Approx 10S-50S, 90E-180E	Lambert	
D	0S-55S, 90E-180E	Mercator	
E	Approx 20S-90S, 150E-170W	Lambert	
F	Approx 10S-50S, 100E-170E	Lambert	
G	30N-35S, 70E-180E	Mercator	
H	Approx 10S-90S, 0W-180W	Lambert	
I	Approx 30S-70S, 80E-180W	Lambert	
J	Approx 20S-90S, all longitudes	Lambert	
K	40N-40S, 70E-180E	Mercator	
L	Approx 10S-60S, 80E-180W	Lambert	
M	10N-60S, 100E-130W	Mercator	
N	10N-60S, 50E-160E	Mercator	
O	20N-50S, 140E-100W	Mercator	
P	20N-50S, 30E-150E	Mercator	

# AUSTRALIA

## III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
0000	Indian Ocean Mean Sea Level Pressure Analysis Valid 0000	H	120/576		
0203	Australian Mean Sea Level Pressure Forecast (H+36) Valid 0000	C	120/576		
0245	Australian Mean Sea Level Pressure Analysis Valid 0000	C	120/576		
0300	Australian Primary Swell Waves Forecast (H+24) Valid 0000	D	120/576		
0345	Australian Mean Sea Level Pressure Analysis Valid 0000	C	120/576		
0400	South Pacific Ocean Mean Sea Level Pressure Analysis Valid 0000	E	120/576		
0430	Australian Mean Sea Level Pressure 4-day forecast, Days 1 and 2	F	120/576		
0445	Australian Mean Sea Level Pressure 4-day forecast, Days 3 and 4	F	120/576		
0500	Australian Mean Sea Level Pressure 4-day forecast, Days 1 and 2	F	120/576		
0515	Australian Mean Sea Level Pressure 4-day forecast, Days 3 and 4	F	120/576		
0600	Asian (Area A) Gradient Level Wind Analysis Valid 0000	A	120/576		
0623	Asian (Area B) Gradient Level Wind Analysis Valid 0000	B	120/576		
0645	Asian Mean Sea Level Pressure Analysis Valid 0000	G	120/576		
0730	Indian Ocean Mean Sea Level Pressure Analysis Valid 0000	H	120/576		
0745	Australian Total Wave Height and Direction Forecast (H+24) Valid 0000	D	120/588		
0800	Australian Primary Swell Waves Forecast (H+24) Valid 0000	D	120/576		
0830	South Pacific Ocean Mean Sea Level Pressure Analysis Valid 0000	E	120/576		
0845	Australian Mean Sea Level Pressure Analysis Valid 0600	C	120/576		
0900	Australian Mean Sea Level Pressure Forecast (H+36) Valid 0000	C	120/576		
0915	Australian Mean Sea Level Pressure 4-day forecast, Days 1 and 2	F	120/576		
0945	Australian Mean Sea Level Pressure 4-day forecast, Days 3 and 4	F	120/576		
1015	Southern Ocean Total Wave Height and Direction (H+24) valid 0000	I	120/576		
1030	Indian Ocean Mean Sea Level Pressure Analysis Valid 0000	H	120/576		
1045	Southern Hemisphere Mean Sea Level Pressure Forecast (H+48) Valid 0000	J	120/576		
1100	Southern Ocean Total Wave Height and Direction (H+36) valid 0000	I	120/576		
1115	Australian Mean Sea Level Pressure Analysis Valid 0600	C	120/576		

## AUSTRALIA

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
1130	Asian Sea Surface Temperature Analysis	K	120/576		
1200	Australian Mean Sea Level Pressure Forecast (H+36) Valid 1200	L	120/576		
1245	Indian Ocean Mean Sea Level Pressure Forecast (H+36) Valid 1200	H	120/576		
1315	South Pacific Ocean Total Waves (H+48) Valid 0000	M	120/576		
1330	Indian Ocean Total Waves (H+48) Valid 0000	N	120/576		
1345	Pacific Ocean Sea Surface Temperatures	O	120/576		
1400	Indian Ocean Sea Surface Temperatures	P	120/576		
1415	Southern Ocean Total Wave Height and Direction (H+48) valid 0000	I	120/576		
1430	Australian Mean Sea Level Pressure Analysis Valid 1200	C	120/576		
1500	Australian Primary Swell Waves Forecast (H+24) Valid 0000	D	120/576		
1515	Australian Mean Sea Level Pressure Forecast (H+36) Valid 1200	L	120/576		
1530	Australian Mean Sea Level Pressure 4-day forecast, Days 1 and 2	F	120/576		
1545	Australian Mean Sea Level Pressure 4-day forecast, Days 3 and 4	F	120/576		
1600	Asian Mean Sea Level Pressure Analysis Valid 0000	G	120/576		
1800	Asian (Area A) Gradient Level Wind Analysis Valid 1200	A	120/576		
1823	Asian (Area B) Gradient Level Wind Analysis Valid 1200	B	120/576		
1915	Indian Ocean Mean Sea Level Pressure Analysis Valid 0000	H	120/576		
1930	Australian Total Wave Height and Direction Forecast (H+24) Valid 1200	D	120/576		
1945	Australian Primary Swell Waves Height Forecast (H+24) Valid 1200	D	120/576		
2000	South Pacific Ocean Mean Sea Level Pressure Analysis Valid 0000	E	120/576		
2015	Southern Ocean Total Wave Height and Direction (H+24) valid 0000	I	120/576		
2030	Australian Mean Sea Level Pressure Analysis Valid 1800	C	120/576		
2215	Southern Ocean Total Wave Height and Direction (H+36) valid 0000	I	120/576		
2230	Australian Mean Sea Level Pressure 4-day forecast, Days 1 and 2	F	120/576		
2245	Southern Hemisphere Mean Sea Level Pressure Forecast (H+48) Valid 1200	J	120/576		
2300	Australian Mean Sea Level Pressure 4-day forecast, Days 3 and 4	F	120/576		
2315	Southern Ocean Total Wave Height and Direction (H+48) valid 0000	I	120/576		
2330	Australian Mean Sea Level Pressure Forecast (H+36) Valid 0000	L	120/576		

## AUSTRALIA

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
2345	Indian Ocean Mean Sea Level Pressure Forecast (H+48) Valid 1200	H	120/576		

Scanning line density: 3.8 lines/mm. ning frequency 120 lines/minute

Start Signals: Carrier modulated by 300 Hz for five (5) seconds.

Phasing signals: BLACK signal interrupted by one (1) WHITE phasing pulse per revolution of the facimile drum, transmitted for at least thirty (30) seconds prior to the transmission of the chart.

Stop signals: Carrier modulated by 450 Hz for five (5) seconds followed by ten (10) seconds of BLACK signal will be transmitted.

\*These charts are only broadcast on 11030 kHz via a directional aerial pointing from Charleville (VMC) towards Tasmania.

**Web Link:** <http://www.bom.gov.au/marine/radio-sat/vmc-technical-guide.shtml>

**AUSTRALIA****Wiluna (Western Australia)**

**Region:** V  
**Position:** 26°21'00"S 120°34'00"E

**METAREA:** X

**Area of reception:** Southwards from 25N -25S, 75E - 180W

**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
15 615 kHz	VMW	F3C	white +400 Hz, black -400 Hz	1 kW	0000-2400
5 755 kHz	VMW	F3C	white +400 Hz, black -400 Hz	1 kW	1100-2100
10 555 kHz	VMW	F3C	white +400 Hz, black -400 Hz	1 kW	0000-2400
18 060 kHz	VMW	F3C	white +400 Hz, black -400 Hz	1 kW	2100-1100
7 535 kHz	VMW	F3C	white +400 Hz, black -400 Hz	1 kW	0000-2400

**II. MAP AREA - ZONE COUVERTE PAR LA CARTE**

Area	Area Coverage	Projection	Scale
A	30N-36S, 120E-176E	Mercator	
B	30N-37S, 20E-123E	Mercator	
C	Approx 10S-50S, 90E-180E	Lambert	
D	0S-55S, 90E-180E	Mercator	
E	Approx 20S-90S, 150E-170W	Lambert	
F	Approx 10S-50S, 100E-170E	Lambert	
G	30N-35S, 70E-180E	Mercator	
H	Approx 10S-90S, 0W-180W	Lambert	
I	Approx 30S-70S, 80E-180W	Lambert	
J	Approx 20S-90S, all longitudes	Lambert	
K	40N-40S, 70E-180E	Mercator	
L	Approx 10S-60S, 80E-180W	Lambert	
M	10N-60S, 100E-130W	Mercator	
N	10N-60S, 50E-160E	Mercator	
O	20N-50S, 140E-100W	Mercator	
P	20N-50S, 30E-150E	Mercator	



# AUSTRALIA

## III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
0000	Indian Ocean Mean Sea Level Pressure Analysis Valid 1200	H	120/576		
0203	Australian Mean Sea Level Pressure Forecast (H+36) Valid 0000	C	120/576		
0245	Australian Mean Sea Level Pressure Analysis Valid 0000	C	120/576		
0300	Australian Primary Swell Waves Forecast (H+24) Valid 0000	D	120/576		
0345	Australian Mean Sea Level Pressure Analysis Valid 0000	C	120/576		
0400	South Pacific Ocean Mean Sea Level Pressure Analysis Valid 0000	E	120/576		
0430	Australian Mean Sea Level Pressure 4-day forecast, Days 1 and 2	F	120/576		
0445	Australian Mean Sea Level Pressure 4-day forecast, Days 3 and 4	F	120/576		
0500	Australian Mean Sea Level Pressure 4-day forecast, Days 1 and 2	F	120/576		
0515	Australian Mean Sea Level Pressure 4-day forecast, Days 3 and 4	F	120/576		
0600	Asian (Area A) Gradient Level Wind Analysis Valid 0000	A	120/576		
0623	Asian (Area B) Gradient Level Wind Analysis Valid 0000	B	120/576		
0645	Asian Mean Sea Level Pressure Analysis Valid 0000	G	120/576		
0730	Indian Ocean Mean Sea Level Pressure Analysis Valid 0000	H	120/576		
0745	Australian Total Wave Height and Direction Forecast (H+24) Valid 0000	D	120/588		
0800	Australian Primary Swell Waves Forecast (H+24) Valid 0000	D	120/576		
0830	South Pacific Ocean Mean Sea Level Pressure Analysis Valid 0000	E	120/576		
0845	Australian Mean Sea Level Pressure Analysis Valid 0600	C	120/576		
0900	Australian Mean Sea Level Pressure Forecast (H+36) Valid 0000	C	120/576		
0915	Australian Mean Sea Level Pressure 4-day forecast, Days 1 and 2	F	120/576		
0945	Australian Mean Sea Level Pressure 4-day forecast, Days 3 and 4	F	120/576		
1015	Southern Ocean Total Wave Height and Direction (H+24) valid 0000	I	120/576		
1030	Indian Ocean Mean Sea Level Pressure Analysis Valid 0000	H	120/576		
1045	Southern Hemisphere Mean Sea Level Pressure Forecast (H+48) Valid 0000	J	120/576		
1100	Southern Ocean Total Wave Height and Direction (H+36) valid 0000	I	120/576		
1115	Australian Mean Sea Level Pressure Analysis Valid 0600	C	120/576		

## AUSTRALIA

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
1130	Asian Sea Surface Temperature Analysis	K	120/576		
1200	Australian Mean Sea Level Pressure Forecast (H+36) Valid 1200	L	120/576		
1245	Indian Ocean Mean Sea Level Pressure Forecast (H+36) Valid 1200	H	120/576		
1315	South Pacific Ocean Total Waves (H+48) Valid 0000	M	120/576		
1330	Indian Ocean Total Waves (H+48) Valid 0000	N	120/576		
1345	Pacific Ocean Sea Surface Temperatures	O	120/576		
1400	Indian Ocean Sea Surface Temperatures	P	120/576		
1415	Southern Ocean Total Wave Height and Direction (H+48) valid 0000	I	120/576		
1430	Australian Mean Sea Level Pressure Analysis Valid 1200	C	120/576		
1500	Australian Primary Swell Waves Forecast (H+24) Valid 0000	D	120/576		
1515	Australian Mean Sea Level Pressure Forecast (H+36) Valid 1200	L	120/576		
1530	Australian Mean Sea Level Pressure 4-day forecast, Days 1 and 2	F	120/576		
1545	Australian Mean Sea Level Pressure 4-day forecast, Days 3 and 4	F	120/576		
1600	Asian Mean Sea Level Pressure Analysis Valid 0000	G	120/576		
1800	Asian (Area A) Gradient Level Wind Analysis Valid 1200	A	120/576		
1823	Asian (Area B) Gradient Level Wind Analysis Valid 1200	B	120/576		
1915	Indian Ocean Mean Sea Level Pressure Analysis Valid 0000	H	120/576		
1930	Australian Total Wave Height and Direction Forecast (H+24) Valid 1200	D	120/576		
1945	Australian Primary Swell Waves Height Forecast (H+24) Valid 1200	D	120/576		
2000	South Pacific Ocean Mean Sea Level Pressure Analysis Valid 0000	E	120/576		
2015	Southern Ocean Total Wave Height and Direction (H+24) valid 0000	I	120/576		
2030	Australian Mean Sea Level Pressure Analysis Valid 1800	C	120/576		
2215	Southern Ocean Total Wave Height and Direction (H+36) valid 0000	I	120/576		
2230	Australian Mean Sea Level Pressure 4-day forecast, Days 1 and 2	F	120/576		
2245	Southern Hemisphere Mean Sea Level Pressure Forecast (H+48) Valid 1200	J	120/576		
2300	Australian Mean Sea Level Pressure 4-day forecast, Days 3 and 4	F	120/576		
2315	Southern Ocean Total Wave Height and Direction (H+48) valid 0000	I	120/576		
2330	Australian Mean Sea Level Pressure Forecast (H+36) Valid 0000	L	120/576		

## AUSTRALIA

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
2345	Indian Ocean Mean Sea Level Pressure Forecast (H+48) Valid 1200	H	120/576		

Scanning line density: 3.8 lines/mm. Scanning frequency 120 lines/minute

Start Signals: Carrier modulated by 300 Hz for five (5) seconds.

Phasing signals: BLACK signal interrupted by one (1) WHITE phasing pulse per revolution of the facimile drum, transmitted for at least thirty (30) seconds prior to the transmission of the chart.

Stop signals: Carrier modulated by 450 Hz for five (5) seconds followed by ten (10) seconds of BLACK signal will be transmitted.

\*These charts are only broadcast on 11030 kHz via a directional aerial pointing from Charleville (VMC) towards Tasmania.

**Web Link:** <http://www.bom.gov.au/marine/radio-sat/vmw-technical-guide.shtml>

**BRAZIL****Rio de Janeiro Naval****Region:** III**Position:** 22°56'00"S 043°20'00"W**METAREA:** V**Area of reception:** Atlantic waters west of 35°W from 3°N to the Equator, and west of 20°W from the Equator to 33°S.**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
12665 kHz	PWZ-33	F3C	-	1 kW	ALL BROADCAST TIMES
16978 kHz	PWZ-33	F3C	-	1 kW	ALL BROADCAST TIMES

**II. MAP AREA - ZONE COUVERTE PAR LA CARTE**

Area	Area Coverage	Projection	Scale
A	20N 090W, 20N 000E, 70 S 090W, 70S 000E		1:101,200,000
B	20N 090W, 20N 020E, 70S 090W, 70S 020E		1:58,500,000
C	20N 090W, 20N 020E, 70S 090W, 70S 020E		1:58,500,000
D	15N 072W, 15N 018W, 50S 072W, 50S 018E		1:32,700,000

**III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
0745/1630	TEST CHART	-	120/576		
0750(00)/1635(12)	SURFACE ANALYSIS (Hpa)	A	120/576		
0810(00)/1655(12)	WAVES SIG HEIGHT (m) AND DIR PROG 12/00Z+36HR	B	120/576		
0830(00)/1715(12)	WIND AT 10 m (KTS) PROG 12/00Z +36 HR	C	120/576		
0850(12)/1735(00)	SEA SURFACE TEMPERATURE	D	120/576		

**Web Link:** <http://www.mar.mil.br/dhn/chm/meteo/info/transmissoes/apend3ing.htm>

**CANADA****Sydney, Nova Scotia (MCTS)****Region:** IV**Position:** 46°11'23"N 059°53'98"W**METAREA:** IV**Area of reception:** North Atlantic to Barents Sea Arctic coast, Atlantic Coast and S. Lawrence River**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

	Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
A	6 915.10 kHz (1)	VCO	J3C	-		Sambro
B	4 416 kHz (1)	VCO	J3C	-		Sambro

**II. MAP AREA - ZONE COUVERTE PAR LA CARTE****III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
1121	Ice Charts: Ice Analysis Gulf of St. Lawrence.		120/576		
1142	Ice Charts: Ice Analysis East or Southeast Newfoundland waters.		120/576		
1741	Ice Charts: Ice Analysis Iceberg limit.		120/576		
2200	Ice Charts: Ice Analysis Gulf of St. Lawrence.		120/576		
2331	Ice Charts: Ice Analysis East or Southeast Newfoundland waters.		120/576		

(1) For correct reception of this broadcast on WMO standard facsimile recorders requiring 2300 Hz for White and 1500 Hz for Black, 1900 Hz centre frequency, radio receivers should be tuned in the UPPER SIDEBAND MODE or USB: add 1.9 to the indicated USB frequencies for FSK frequencies.

**Web Link:** --

**CANADA****Halifax, Nova Scotia (MCTS)****Region:** IV**Position:** 44°28'00"N 063°37'00"W**METAREA:** IV**Area of reception:** Arctic coast, Atlantic Coast and S. Lawrence River**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

	Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
E	122.5 kHz (2)	CFH (1)	J3C (FM)	120/576	10 kW	
A	4271 kHz (2)	CFH (1)	J3C (FM)	120/576	6 kW	
B	6496.4 kHz (2)	CFH (1)	J3C (FM)	120/576	6 kW	
C	10 536 kHz (2)	CFH (1)	J3C (FM)	120/576	6 kW	
D	13 510 kHz (2)	CFH (1)	J3C (FM)	120/576	6 kW	

**II. MAP AREA - ZONE COUVERTE PAR LA CARTE**

Area	Area Coverage	Projection	Scale
A.	56N 87W, 56N 24W, 34N 38W, 34N 73W		
B.	76N 16W, 30N 20W, 23N 11W, 08N 69W		
C.	52N 80W, 65N 15W, 30N 60W, 34N 17W		
D.	60N 68W, 60N 33W, 43N 33W, 43N 68W		
E.	50N 75W, 50N 48W, 34N 48W, 34N 75W		
F.	52N 98W, 58N 24W, 30N 39W, 28N 78W		
G.	52N 98W, 56N 24W, 30N 39W, 28N 78W		
H.	30N 107W, 15N 67W, 34N 24W, 79N 60W		
I.	54N 100W, 58N 22W, 30N 39W, 28N 78W		

**III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

## **CANADA**

(1) METOC Halifax (CFH): The Canadian Forces Fleet MetOc Broadcast service (radioteletype and radiofacsimile) was placed in abeyance effective September 2, 2010. The Canadian Forces Fleet MetOc Broadcast may be reinstated and ceased without warning as necessitated by military operational requirements. When notified, MCTS will issue a Notice to Shipping concerning reinstatement or cessation of this service. Broadcasts intended for North Atlantic waters North of 35N and West of 35W. Radiofacsimile transmission commences with a 30 second break followed by a 30 second signal.

(2) For correct reception of this broadcast on WMO standard facsimile recorders requiring 2300 Hz for White and 1500 Hz for Black, 1900 Hz centre frequency, radio receivers should be tuned in the UPPER SIDEBAND MODE or USB: add 1.9 to the indicated USB frequencies for FSK frequencies.

**Web Link:** --

**CANADA**

**Iqaluit, Nunavut (MCTS)**

**Region:** IV  
**Position:** 63°44'00"N 068°33'00"W

**METAREA:** XVII, XVIII

**Area of reception:** Arctic coast, Atlantic Coast and S. Lawrence River

**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

	Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
A	8 456 kHz (FSK) (2)	VFF (1)	J3C (FM)	white 2300 Hz, black 1500 Hz, centre frequency 1900 Hz*	1 kW	Inuvik
B	4 292 kHz (FSK) (2)	VFF (1)	J3C (FM)	white 2300 Hz, black 1500 Hz, centre frequency 1900 Hz*	1 kW	Inuvik
C	7 710 kHz (FSK) (2)	VFF (1)	J3C (FM)	white 2300 Hz, black 1500 Hz, centre frequency 1900 Hz*	1 kW	Iqaluit
D	3 253 kHz (FSK) (2)	VFF (1)	J3C (FM)	white 2300 Hz, black 1500 Hz, centre frequency 1900 Hz*	1 kW	Iqaluit
E	3 253 kHz (FSK) (2)	VFF (1)	J3C (FM)	white 2300 Hz, black 1500 Hz, centre frequency 1900 Hz*	1 kW	Resolute
F	7 710 kHz (FSK) (2)	VFF (1)	J3C (FM)	white 2300 Hz, black 1500 Hz, centre frequency 1900 Hz*	1 kW	Resolute

**II. MAP AREA - ZONE COUVERTE PAR LA CARTE**

**III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
0100	Weather Charts: Marine Surface Analysis (Arctic). Marine Wind Prognosis (Arctic).		120/576		
0200	Ice Charts: Transmitted from Inuvik: Ice Analysis: Amundsen Gulf, Queen Maud Gulf, McClure Strait and Beaufort Sea/Alaskan Coast.		120/576		
0200	Ice Charts: Transmitted from Resolute: Ice analysis: Baffin Bay, Approaches to Resolute, Resolute-Byam, Eureka Sound, McClure Strait, Parry Channel and Queen Maud Gulf.		120/576		
0200	Ice Charts: Transmitted from Iqaluit: Ice analysis: Hudson Bay south, Hudson Bay north, Hudson Strait, Foxe Basin, Labrador Coast, Davis Strait, Baffin Bay.		120/576		



**CANADA**

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
0600	Weather Charts: Marine Surface Analysis (Arctic). Marine Wind Prognosis (Arctic).		120/576		
0700	Ice charts: Transmitted from Iqaluit: Ice Analysis: Hudson Bay south, Hudson Bay north, Hudson Strait, Foxe Basin, Labrador Coast, Davis Strait, Baffin Bay.		120/576		
0700	Ice Charts: Transmitted from Resolute: Ice Analysis: Baffin Bay, Approaches to Resolute, Resolute-Byam, Eureka Sound, McClure Strait, Parry Channel and Queen Maud Gulf.		120/576		
0700	Ice Charts: Transmitted from Inuvik: Ice Analysis: Amundsen Gulf, Queen Maud Gulf, McClure Strait and Beaufort Sea/Alaskan Coast.		120/576		
1000	Weather charts: Marine Surface Analysis (Arctic). Marine Wind Prognosis (Arctic).		120/576		
1100	Ice charts: Transmitted from Iqaluit: Ice Analysis: Hudson Bay south, Hudson Bay north, Hudson Strait, Foxe Basin, Labrador Coast, Davis Strait, Baffin Bay.		120/576		
1100	Ice Charts: Transmitted from Inuvik: Ice Analysis: Amundsen Gulf, Queen Maud Gulf, McClure Strait and Beaufort Sea/Alaskan Coast.		120/576		
1100	Ice Charts: Transmitted from Resolute: Ice Analysis: Baffin Bay, Approaches to Resolute, Resolute-Byam, Eureka Sound, McClure Strait, Parry Channel and Queen Maud Gulf.		120/576		
2100	Weather Charts: Marine Surface Analysis (Arctic). Marine Wind Prognosis (Arctic).		120/576		
2200	Ice Charts: Transmitted from Iqaluit: Ice Analysis: Hudson Bay south, Hudson Bay north, Hudson Strait, Foxe Basin, Labrador Coast, Davis Strait, Baffin Bay.		120/576		
2200	Ice Charts: Transmitted from Resolute: Ice Analysis: Baffin Bay, Approaches to Resolute, Resolute-Byam, Eureka Sound, McClure Strait, Parry Channel and Queen Maud Gulf.		120/576		
2200	Ice charts: Transmitted from Inuvik: Ice Analysis: Amundsen Gulf, Queen Maud Gulf, McClure Strait and Beaufort Sea/Alaskan Coast.		120/576		

(1) On request: Ice charts for Canadian Waters are available upon request to MCTS with at least 5-day prior notice. These charts may end with little or no notice if no shipping activity is expected or identified.

(2) For correct reception of this broadcast on WMO standard facsimile recorders requiring 2300 Hz for White and 1500 Hz for Black, 1900 Hz centre frequency, radio receivers should be tuned in the UPPER SIDEBAND MODE or USB: add 1.9 to the indicated USB frequencies for FSK frequencies.

**Web Link:** --

**CHILE****Valparaiso Playa Ancha (Radio Centro de Telecomunicaciones Maritimas)****Region:** III**Position:** 33°01'00"S 071°38'00"W**METAREA:** XV**Area of reception:** Zone X.  
East Pacific - Ocean areas south of 33°S between 20°W and 70°W. Chilean Maritime area**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
17146.4 kHz	CBV	J3C	-	1 kW	ALL BROADCAST TIMES
8677.0 kHz	CBV	J3C	-	1 kW	ALL BROADCAST TIMES
4228.0 kHz	CBV	J3C	-	1 kW	ALL BROADCAST TIMES

**II. MAP AREA - ZONE COUVERTE PAR LA CARTE**

Area	Area Coverage	Projection	Scale
A	10S-120W, 10S-50W, 80S-130W, 80S-30W		
B	50S-90W, 50S-30W, 85S-90W, 85S-30W		

**III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
1100	TEST CHART CBV SCHEDULES	A	120/576		
1115(06)	SURFACE CHART	A	120/576		
1130(09)	SATELLITE IMAGE	A	120/576		
1630(12)	24 HR SURFACE FORECAST	A	120/576		
1645(15)	SATELLITE IMAGE	A	120/576		
1915(12)	SURFACE CHART	A	120/576		
1930(18)	SATELLITE IMAGE	A	120/576		
2200(00)	36 HR SURFACE FORECAST	A	120/576		
2215(18)	SURFACE CHART	A	120/576		
2230(12)	WINDS BARB ISOTACHS FORECAST	A	120/576		

## CHILE

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
2310(12)	48 HR SURFACE FORECAST	A	120/576		
2325(21)	SATELLITE IMAGE	A	120/576		

The Antarctic Ice Limit Charts have been replaced with more surface charts and forecasts and have been removed from the radiofacsimile broadcasting to the web page at: <http://web.directemar.cl/met/jturno/indice/english.htm> (see point 4) including satellite pictures, iceberg report and automated station.

**Web Link:** [http://meteoarmada.directemar.cl/prontus\\_meteo/site/artic/20100817/pags/20100817162223.html](http://meteoarmada.directemar.cl/prontus_meteo/site/artic/20100817/pags/20100817162223.html)

# CHILE

## Punta Arenas Magallanes

Region: III

Position: 53°10'00"S 070°54'00"W

METAREA: XV

Area of reception: Zone IX.  
EAST SECTOR (SOUTH LAT 60S BETWEEN LONG 50W/75W).  
CENTRAL SECTOR (SOUTH LAT 60S BETWEEN LONG 75W/95W).  
WEST SECTOR (SOUTH LAT 60S BETWEEN LONG 95W/120W).

### I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
8696.0 kHz	CBM	J3C	-	1 kW	ALL BROADCAST TIMES
4322.0 kHz	CBM	J3C	-	1 kW	ALL BROADCAST TIMES

### II. MAP AREA - ZONE COUVERTE PAR LA CARTE

Area	Area Coverage	Projection	Scale
A	10S-120W, 10S-50W, 80S-130W, 80S-30W		
B	50S-90W, 50S-30W, 85S-90W, 85S-30W		

### III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
0350(12)	48 HR SURFACE FORECAST	A	120/576		
0405(24)	SATELLITE IMAGE	A	120/576		
1550	TEST CHART CBM SCHEDULES		120/576		
1605(00)	12HR SURFACE FORECAST	A	120/576		
1620(12)	SATELLITE IMAGE	A	120/576		
1730(12)	SURFACE CHART	A	120/576		
1745(15)	SATELLITE IMAGE	A	120/576		
2005(12)	SIGNIFICANT WAVE MAP FORECAST	A	120/576		
2020(18)	SATELLITE IMAGE	A	120/576		

**CHILE**

<b>Transmission Time (Time Group) (UTC)</b>	<b>Details of Chart</b>	<b>Map Area</b>	<b>Drum Speed</b>	<b>TTAAii</b>	<b>CCCC</b>
2240(00)	36 HR SURFACE FORECAST	A	120/576		
2255(18)	SURFACE CHART	B	120/576		
2310(12)	WINDS BARB ISOTACHS FORECAST	A	120/576		

The Antarctic Ice Limit Charts have been replaced with more surface charts and forecasts and have been removed from the radiofacsimile broadcasting to the web page at: <http://web.directemar.cl/met/jturno/indice/english.htm> (see point 4) including satellite pictures, iceberg report and automated station.

**Web Link:** [http://meteoarmada.directemar.cl/prontus\\_meteo/site/artic/20100817/pags/20100817162223.html](http://meteoarmada.directemar.cl/prontus_meteo/site/artic/20100817/pags/20100817162223.html)

# DENMARK AND FAROE ISLANDS

Skamlebaek (KØBENHAVN)

Region: VI  
Position: 55°48'00"N 011°25'00"E

METAREA: I  
Area of reception: North Sea, North Atlantic, Greenland sea areas south of 75°N and east of 50°W (SEE MAP)

## I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
9 360 kHz	OXT (1)	F3C	-	20 kW	0003-0025
5 850 kHz	OXT (1)	F3C	-	20 kW	0028-1005
13 855 kHz	OXT (1)	F3C	-	20 kW	1803-1825
9 360 kHz	OXT (1)	F3C	-	20 kW	1008-1215
17 510 kHz	OXT (1)	F3C	-	20 kW	1333-1355
9 360 kHz	OXT (1)	F3C	-	20 kW	1243-1305
9 360 kHz	OXT (1)	F3C	-	20 kW	1828-1850
13 855 kHz	OXT (1)	F3C	-	20 kW	1218-1240
13 855 kHz	OXT (1)	F3C	-	20 kW	1308-1330

## II. MAP AREA - ZONE COUVERTE PAR LA CARTE

Area	Area Coverage	Projection	Scale
1	Covers the southern tip of Greenland		
2	Section, which may cover any area north of 62°N according to need and time of year either on W or E coast of Greenland		

## III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
0028 0003(2) 1243 1308 1333	Ice chart	2 (or 1)	120/576		
0943 1008 1153 1218 1803 1828	Ice chart	1	120/576		

## **DENMARK AND FAROE ISLANDS**

### **NOTES :**

(1) Call sign is transmitted for a period of 2 minutes immediately prior to chart transmission.

(2) Either one of chart #2 is transmitted if available, otherwise chart #1 is transmitted.

(3) Chart #1 covers the southern tip of Greenland. Chart #2 is a section, which may cover any area north of 62 degrees north according to need and time of year either on west or east coast of Greenland.

**Web Link:** --

**GERMANY****Offenbach (Main)-Hamburg/Pinneberg (broadcast for shipping)****Region:** VI**Position:** 53°43'00"N 009°55'00"E**METAREA:** I**Area of reception:** North Atlantic north of 40°N, East of 55°W, North Sea and Baltic Sea**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
3855 kHz	DDH3	F1C	white + 425 Hz, black - 425 Hz	10,0 kW	0430-2300
7880 kHz	DDK3	F1C	white + 425 Hz, black - 425 Hz	10,0 kW	0430-2300
13882,5 kHz	DDK6	F1C	white + 425 Hz, black - 425 Hz	10,0 kW	0430-2300

**II. MAP AREA - ZONE COUVERTE PAR LA CARTE**

Area	Area Coverage	Projection	Scale
AC*	44 N 116 W, 44 N 136 E; 44 N 45 W, 44 N 65 E	Stereographic	1:67.000.000 (A4)
AC1*	11 N 125 W, 11 N 145 E; 11 N 35 W, 11 N 55 E	Stereographic	1:44.000.000 (A3)
BQ1	58°N-08°E; 58°N-16°E; 53°N-08°E; 53°N-16°E	Stereographic	
BQ1	58 N 08 E, 58 N 16 E; 53 N 08 E, 53 N 16 E	Stereographic	
BQ2	66°N-12°E; 66°N-30°E; 57°N-12°E; 57°N-30°E	Mercator	
BQ2	66 N 12 E, 66 N 30 E; 57 N 12 E, 57 N 30 E	Mercator	
BQ3	58°N-08°E; 58°N-22°E; 54°N-08°E; 54°N-22°E	Mercator	
BQ3	58 N 08 E, 58 N 22 E; 54 N 08 E, 54 N 22 E	Mercator	
EN	62°N-04°W; 62°N-12°E; 50°N-04°W; 50°N-12°E	Stereographic	1: 2.000.000 scale indications refer to 60°N latitude
EN	60 N 09 W, 62 N 12 E; 50 N 04 W, 51 N 12 E	Stereographic	1: 2.000.000
NA	43 N 67 W, 61 N 79 E; 19 N 27 W, 27 N 33 E	Stereographic	1:20.000.000 (A3); 1:15.000.000 (A2)
NA	43°N-67°W; 61°N-79°E; 19°N-27°W; 27°N-33°E	Stereographic	1: 20.000.000 (A3)scale indications refer to 60°N latitude
NT1	38°N-100°W; 60°N-36°E;14°N-17°W;21°N-13°W	Mercator	1: 15.000.000
NT1	41 N 114 W, 60 N 36 E; 14 N 70 W, 21 N 13 W	Stereographic	1:15.000.000
NT2	60°N-65°W;60°N-38°W; 40°N-65°W; 40°N-38°W	Mercator	
NT3	53 N 70 W, 52 N 26 W; 36 N 63 W, 36 N 33 W	Stereographic	
NT3	52°N-110°W;61°N-34°E; 07°N-57°W; 09°N-18°W	Stereographic	15.000.000 scale indications refer to 60°N latitude



## GERMANY

NT4 57°N-96°W; 71°N-71°E; 38°N-48°W; 46°N-13°E

Stereographic

10.000.000 scale indications refer to 60°N latitude

NT4 48 N 117 W, 63 N 42 E; 05 N 63 W, 10 N 18 W

Stereographic

1:15.000.000

### III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
0430	MSL weather chart North Atlantic, Europe		120/576		
0500	H+00, H+24 MSL pressure, wind (10 m)		120/576		
0512	H+36 MSL pressure		120/576		
0525	MSL pressure analysis, arrows showing the movement of pressure systems, significant weather, ice		120/576		
0555-0635	Voice-Transmission 5905 and 6180 kHz		120/576		
0638	Information of tropical storms, North Atlantic (during the season)		120/576		
0651	H+12, H+24 500 hPa H+T, MSL pressure		120/576		
0704	H+12, H+24 850 hPa H+T, 700 hPa U		120/576		
0717	H+36 MSL pressure		120/576		
0730	H+48 MSL pressure		120/576		
0743	H+60 MSL pressure		120/576		
0804	H+84 MSL pressure		120/576		
0817	H+108 MSL pressure		120/576		
0830*	H+00, H+24 MSL pressure, wind (10 m)		120/576		
0843*	Analysis 500 hPa H		120/576		
0855*	H+36, H+48 MSL pressure, wind (10 m)		120/576		
0907*	H+24 925 hPa, 700 hPa U		120/576		
0919*	H+36 925 hPa, 700 hPa U		120/576		
0931*	H+72, H+96 MSL pressure, wind (10 m)		120/576		
0943	H+24 , sea and swell, wind direction, direction of swell		120/576		
0955	Sea surface temperature, North Sea		120/576		
1016	H + 48 , sea and swell, wind direction, direction of swell		120/576		
1028	H + 72 , sea and swell, wind direction, direction of swell		120/576		

## GERMANY

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
1040	H+48, wave prediction Northatlantic		120/576		
1100	Surface weather chart		120/576		
1120	H + 96 , sea and swell, wind direction, direction of swell		120/576		
1132	H+36, H+48 500 hPa H+T, MSL pressure		120/576		
1144	H+36, H+48 850 hPa H+T, 700 hPa U		120/576		
1155-1235	Voice-Transmission 5905 and 6180 kHz		120/576		
1236	Ice condition chart Western Baltic		120/576		
1257	Repetition chart 07.17 UTC		120/576		
1314	Repetition chart 07.30 UTC		120/576		
1325	Repetition chart 08.30 UTC		120/576		
1337	Repetition chart 08.55 UTC		120/576		
1349	H+60, H+72 500 hPa H+T, MSL pressure		120/576		
1401	H+60, H+72 850 hPa H+T, 700 hPa U		120/576		
1413	Repetition chart 09.31 UTC		120/576		
1425	Transmission schedule 1		120/576		
1445	Transmission schedule 2		120/576		
1508	Ice condition chart North-West Atlantic		120/576		
1520	Ice condition chart Western Baltic or special area		120/576		
1540	Ice condition chart Arctic Sea		120/576		
1555-1635	Voice-Transmission 5905 and 6180 kHz		120/576		
1636	Surface weather chart North Atlantic, Europe		120/576		
1800	MSL pressure analysis, arrows showing the movement of pressure systems, significant weather, ice		120/576		
1821	Information of tropical storms, North Atlantic (during the season)		120/576		
1834	H+36 MSL pressure		120/576		
1847	H+48 MSL pressure		120/576		
1900	H+84 MSL pressure		120/576		
1912*	H+00, H+24 MSL pressure, wind (10 m)		120/576		

## GERMANY

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
1924*	Analysis 500 hPa H		120/576		
1936*	H+36, H+48 MSL pressure, wind (10 m)		120/576		
1955-2035	Voice-Transmission 5905 and 6180 kHz		120/576		
2035*	H+24 925 hPa, 700 hPa U		120/576		
2047*	H+36 925 hPa, 700 hPa U		120/576		
2059*	H+72, H+96 MSL pressure, wind (10 m)		120/576		
2111	H + 24 , sea and swell, wind direction, direction of swell		120/576		
2123	H + 48 , sea and swell, wind direction, direction of swell		120/576		
2135	H + 72 , sea and swell, wind direction, direction of swell		120/576		
2147	Ice condition chart Northwest- Atlantic		120/576		
2200	MSL weather chart North Atlantic, Europe		120/576		
2220	Ice condition Chart Western Baltic		120/576		
2240	H+48 wave prediction Northatlantic		120/576		

Footnotes:

\* Special transmission for German research vessels

Notes:

Abbreviations used have the following meaning:

VT = Model day before

MSL = Mean Sea Level

H + T = Height + Temperature

**Web Link:** --

**GREECE****Olympia****Region:** VI**Position:** 37°59'00"N 023°43'00"E**METAREA:** III**Area of reception:** Europe - Mediterranean**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
8 105 kHz	SVJ4	F3C	White/Black ± 350 Hz	5 kW	0845 - 1010
4 481 kHz	SVJ4	F3C	White/Black ± 350 Hz	5 kW	0845 - 1010

**II. MAP AREA - ZONE COUVERTE PAR LA CARTE**

Area	Area Coverage	Projection	Scale
A	Central & South Europe, Mediterranean Northern coasts of Africa: 54°N-43°N, 09°W-30°E	Polar stereographic	1:6.000.000 true at 60°N
B	Mediterranean, Black Sea: 53°N- 41°N, 02°W-30°E	Polar stereographic	1:6.000.000 true at 60°N

**III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
0845(06)	MSLP Analysis	A	120/576		LGAT
0857(06)	24H MSLP Prognosis	A	120/576		LGAT
0911(06)	48H MSLP Prognosis	A	120/576		LGAT
0923(18)	H+30 Sea State (SWH & SWD)	B	120/576		LGAT
0934(36)	H+36 Sea State (SWH & SWD)	B	120/576		LGAT
0946(42)	H+42 Sea State (SWH & SWD)	B	120/576		LGAT
0958(48)	H+48 Sea State (SWH & SWD)	B	120/576		LGAT

**Web Link:** --

**JAPAN****Kagoshima****Region:** II**Position:** 31°19'00"N 130°31'00"E**METAREA:** XI**Area of reception:** 90°N,40°E - 10°S,40°E - 10°S,130°W - 90°N,130°W**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
3 622.5 kHz	JMH	F3C	white +400 Hz, black -400 Hz	5 kW	H24
7 795 kHz	JMH 2	F3C	white +400 Hz, black -400 Hz	5 kW	H24
13 988.5 kHz	JMH 4	F3C	white +400 Hz, black -400 Hz	5 kW	H24

**II. MAP AREA - ZONE COUVERTE PAR LA CARTE**

Area	Area Coverage	Projection	Scale
A'	38°12'N- 85°54'E; 50°36'N-177°12'E 12°24'N-110°42'E; 17°24'N-157°12'E	Polar stereographic	1:25,000,000 true at 60°N (21 cm x 31 cm)
c	26°30'N- 62°00'E; 51°00'N-152°00'W 05°00'S-106°00'E; 02°00'N-160°00'E	Polar stereographic	1:42,000,000 true at 60°N (28cm x 34 cm)
C	26°30'N- 62°00'E; 51°00'N-152°00'W 05°00'S-106°00'E; 02°00'N-160°00'E	Polar stereographic	1:20,000,000 true at 60°N (46 cm x 56 cm)
C'	38°30'N- 65°30'E; 38°30'N-145°30'W 01°00'S-112°30'E; 01°00'S-167°00'E	Polar stereographic	1:20,000,000 true at 60°N (46 cm x 56 cm)
C''	37°30'N- 67°00'E; 39°00'N-147°36'W 01°00'S-112°24'E; 00°30'S-166°42'E	Polar stereographic	1:20,000,000 true at 60°N (46 cm x 56 cm)
C'2	22°48'N- 58°42'E; 22°48'N-138°42'W 10°42'S-107°12'E; 10°42'S-172°48'E	Polar stereographic	1:28,000,000 true at 60°N (46 cm x 56 cm)
k	60°00'N-100°00'E; 60°00'N-180°00'E 00°00'N-100°00'E; 00°00'N-180°00'E	Mercator	1:34,770,000 true at 35°N (46 cm x 49 cm)
L	Sea of Okhotsk; northern parts of Sea of Japan; Bo Hai; & adjacent waters of North Pacific	Polar stereographic	1:10,000,000 true at 60°N (46 cm x 28 cm)
L'	48°30'N-151°12'E; 49°12'N-140°00'E 40°24'N-149°12'E; 41°00'N-140°00'E	Polar stereographic	1:5,000,000 true at 60°N (21 cm x 30 cm)
X	47°00'N-116°36'E; 45°42'N-149°24'E 22°36'N-122°06'E; 22°00'N-141°36'E	Polar stereographic	1:6,000,000 true at 60°N (45 cm x 55 cm)

**III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

**JAPAN**

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
(00)	850HPA TEMPERATURE, WIND AND 700HPA VERTICAL P-VELOCITY PROGNOSIS (36HOUR)			FXFE783	RJTD
(12)	SURFACE PRESSURE, PRECIPITATION PROGNOSIS (36HOUR)			FSFE03	RJTD
0000(12)	RETRANSMISSION OF 2200			FSAS04	RJTD
0000(12)	RETRANSMISSION OF 2200			FSAS07	RJTD
0020(12)	SURFACE PRESSURE, PRECIPITATION PROGNOSIS (96HOUR)			FSAS09	RJTD
0040(12)	SURFACE PRESSURE, PRECIPITATION PROGNOSIS(120HOUR)			FSAS12	RJTD
0103	TEST CHART			--	RJTD
0110(00)	METEOROLOGICAL SATELLITE PICTURE			--	RJTD
0130	RETRANSMISSION OF 1019			STPN	RJTD
0130(00)	RETRANSMISSION OF 1019			FIOH04/16	RJTD
0150(00)	TROPICAL CYCLONE FORECAST			WTAS12	RJTD
0210(2)	SEA SURFACE CURRENT, WATER TEMPERATURE AT 100M DEPTH			SOPQ	RJTD
0229(3)	RADIO PREDICTION			--	RJTD
0240(00)	SURFACE ANALYSIS			ASAS	RJTD
0300(2)	SEA SURFACE WATER TEMPERATURE			COPQ1	RJTD
0320(00)	THE FIRST RETRANSMISSION OF 0240			ASAS	RJTD
0340	JMH BROADCAST SCHEDULE AND MANUAL AMENDMENTS			MANAM	RJTD
0400(00)(6)	RETRANSMISSION OF 0150			WTAS12	RJTD
0421(00)	OCEAN WAVE ANALYSIS			AWPN	RJTD
0440(00)	COASTAL WAVE ANALYSIS			AWJP	RJTD
0459(00)	500HPA HEIGHT, TEMPERATURE			AUAS50	RJTD
0518(00)	850HPA HEIGHT, TEMPERATURE, DEW POINT DEPRESSION			AUAS85	RJTD
0537(00)	500HPA HEIGHT, VORTICITY PROGNOSIS (24HOUR)			FUFE502	RJTD
0537(00)	SURFACE PRESSURE, PRECIPITATION PROGNOSIS (24HOUR)			FSFE02	RJTD
0548(00)	SURFACE PRESSURE, WIND, FOG, ICING, SEA ICE PROGNOSIS (24HOUR)			FSAS24	RJTD
0610(00)(1)	RETRANSMISSION OF 0150			WTAS07	RJTD
0630(00)	SURFACE PRESSURE, PRECIPITATION PROGNOSIS(48HOUR)			FSAS04	RJTD

## JAPAN

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
0630(00)	SURFACE PRESSURE, PRECIPITATION PROGNOSIS(72HOUR)			FSAS07	RJTD
0651(00)	OCEAN WAVE PROGNOSIS(24HOUR)			FWPN	RJTD
0710(06)	METEOROLOGICAL SATELLITE PICTURE			--	RJTD
0730(00)	COASTAL WAVE PROGNOSIS(24HOUR)			FWJP	RJTD
0750(06)(1)	TROPICAL CYCLONE FORECAST			WTAS12	RJTD
0809(00)	500HPA HEIGHT, VORTICITY PROGNOSIS(36HOUR)			FUFE503	RJTD
0809(00)	SURFACE PRESSURE, PRECIPITATION PROGNOSIS(36HOUR)			FSFE03	RJTD
0820(00)	SURFACE PRESSURE, WIND, ICING, SEA ICE PROGNOSIS (48HOUR)			FSAS48	RJTD
0840(06)	SURFACE ANALYSIS			ASAS	RJTD
0900(06)(6)	RETRANSMISSION OF 0750			WTAS12	RJTD
0920(06)	THE FIRST RETRANSMISSION OF 0840			ASAS	RJTD
0940(00)	RETRANSMISSION OF 0630			FSAS04	RJTD
0940(00)	RETRANSMISSION OF 0630			FSAS07	RJTD
1000(00)	RETRANSMISSION OF 0820			FSAS48	RJTD
1019(00)(5)	SEA ICE CONDITION PROGNOSIS (48 AND 168HOUR, SEASONAL)			FIOH04/16	RJTD
1019(4)	SEA ICE CONDITION (SEASONAL)			STPN	RJTD
1040(00)	RETRANSMISSION OF 0548			FSAS24	RJTD
1100(00)	RETRANSMISSION OF 0421			AWPN	RJTD
1119(00)	RETRANSMISSION OF 0440			AWJP	RJTD
1140(00)	RETRANSMISSION OF 0651			FWPN	RJTD
1200(06)(1)	RETRANSMISSION OF 0750			WTAS07	RJTD
1220(00)	OCEAN WAVE PROGNOSIS (12,24,48,72HOUR)			FWPN07	RJTD
1240(00)	500HPA TEMPERATURE, AND 700HPA DEW POINT DEPRESSION PROGNOSIS (24HOUR)			FXFE572	RJTD
1240(00)	850HPA TEMPERATURE, WIND AND 700HPA VERTICAL P-VELOCITY PROGNOSIS (24HOUR)			FXFE782	RJTD
1251(00)	500HPA TEMPERATURE, AND 700HPA DEW POINT DEPRESSION PROGNOSIS (36HOUR)			FXFE573	RJTD
1303	TEST CHART			--	RJTD
1310(12)	METEOROLOGICAL SATELLITE PICTURE			--	RJTD

**JAPAN**

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
1330(00)	RETRANSMISSION OF 0730			FWJP	RJTD
1350(12)(1)	TROPICAL CYCLONE FORECAST			WTAS07	RJTD
1420(2)	RETRANSMISSION OF 0210			SOPQ	RJTD
1440(12)	SURFACE ANALYSIS			ASAS	RJTD
1520(12)	THE FIRST RETRANSMISSION OF 1440			ASAS	RJTD
1540(12)(6)	RETRANSMISSION OF 1350			WTAS12	RJTD
1600(2)	SEA SURFACE WATER TEMPERATURE			COPQ1	RJTD
1620(12)	OCEAN WAVE ANALYSIS			AWPN	RJTD
1640(12)	500HPA HEIGHT, TEMPERATURE			AUAS50	RJTD
1700(12)	850HPA HEIGHT, TEMPERATURE, DEW POINT DEPRESSION			AUAS85	RJTD
1719(12)	COASTAL WAVE ANALYSIS			AWJP	RJTD
1739(12)	SURFACE PRESSURE, PRECIPITATION PROGNOSIS (24HOUR)			FSFE02	RJTD
1739(12)	500HPA HEIGHT, VORTICITY PROGNOSIS (24HOUR)			FUFE502	RJTD
1750(12)(1)	RETRANSMISSION OF 1350			WTAS07	RJTD
1810(12)	500HPA HEIGHT, VORTICITY PROGNOSIS (36HOUR)			FUFE503	RJTD
1821(12)	850HPA TEMPERATURE, WIND AND 700HPA VERTICAL P-VELOCITY PROGNOSIS (24HOUR)			FXFE782	RJTD
1821(12)	500HPA TEMPERATURE, AND 700HPA DEW POINT DEPRESSION PROGNOSIS (24HOUR)			FXFE572	RJTD
1832(12)	850HPA TEMPERATURE, WIND AND 700HPA VERTICAL P-VELOCITY PROGNOSIS (36HOUR)			FXFE783	RJTD
1832(12)	500HPA TEMPERATURE, AND 700HPA DEW POINT DEPRESSION PROGNOSIS (36HOUR)			FXFE573	RJTD
1850(12)	OCEAN WAVE PROGNOSIS (12,24,48,72HOUR)			FWPN07	RJTD
1910(18)	METEOROLOGICAL SATELLITE PICTURE			--	RJTD
1930(12)	SURFACE PRESSURE, WIND, FOG, ICING, SEA ICE PROGNOSIS (24HOUR)			FSAS24	RJTD
1950(18)(1)	TROPICAL CYCLONE FORECAST			WTAS12	RJTD
2010(12)	COASTAL WAVE PROGNOSIS (24HOUR)			FWJP	RJTD
2040(18)	SURFACE ANALYSIS			ASAS	RJTD
2100(12)	SURFACE PRESSURE, WIND, ICING, SEA ICE PROGNOSIS (48HOUR)			FSAS48	RJTD



## JAPAN

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
2120(18)	THE FIRST RETRANSMISSION OF 2040			ASAS	RJTD
2140(18)(6)	TROPICAL CYCLONE FORECAST			WTAS12	RJTD
2200(12)	SURFACE PRESSURE, PRECIPITATION PROGNOSIS (72HOUR)			FSAS07	RJTD
2200(12)	SURFACE PRESSURE, PRECIPITATION PROGNOSIS (48HOUR)			FSAS04	RJTD
2220(12)	OCEAN WAVE PROGNOSIS (24HOUR)			FWPN	RJTD
2240(18)(1)	RETRANSMISSION OF 1950			WTAS07	RJTD
2300(12)	RETRANSMISSION OF 1930			FSAS24	RJTD
2320(12)	RETRANSMISSION OF 1719			AWJP	RJTD
2340(12)	RETRANSMISSION OF 2100			FSAS48	RJTD

### NOTES:

- (1) In case of tropical cyclone.
- (2) Every Tuesday and Friday.
- (3) On the 20th and 21st of each month.
- (4) Every Tuesday and Friday (seasonal). Retransmission: at 0130 on the next day.
- (5) Every Wednesday and Saturday (seasonal). Retransmission : at 0130 on the next day.
- (6) If a tropical cyclone is expected to exist in 4 days.

**Web Link:** <http://www.jma-net.go.jp/common/177jmh/JMH-ENG.pdf>

**KENYA****Nairobi****Region:** I**Position:** 01°16'60"S 036°49'00"E**METAREA:** VIII(S)**Area of reception:****I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
9 043 kHz	5YE 1	F3C	white/black +or- 400 Hz	10 kW	H24
17 445.6 kHz	5YE 2	F3C	white/black +or- 400 Hz	10 kW	H24

**II. MAP AREA - ZONE COUVERTE PAR LA CARTE**

Area	Area Coverage	Projection	Scale
A	30°N-30°S; 05°W-70°E	Mercator	1: 15.000.000 at 22°30'
B	55°N-35°S; 20°W-90°E		1: 25.000.000 at 22°30'
C	22°N-02°S; 25°E-60°E		1: 7.500.000 at 22°30'
D	30°N-30°S; 15°E-70°E		1: 15.000.000 at 22°30'
E	20°N-30°S; 30°E-70°E		1: 15.000.000 at 22°30'

**III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
0010(12) 0600(18) 1037(00) 1742(06)	Sigwx FL250	B	120/576		
0100(00)	Sigwx below FL240 (1200) - Form No. 585A	B	120/576		
0140(12)	Tabular forecast - Form No. 2053	B	120/576		
0540(18) 2350(12)	SIGWX FL100-250	B	120/576		
0630 0645	Climate outlook	-	120/576		
0800(12)	Sigwx below FL240 - Form No.585A	-	120/576		
0830(8)	Test chart	-	120/576		
0844(00) 2055(12)	FL180 prognostic	B	120/576		
0903(00) 2114(12)	FL300 prognostic	B	120/576		

**KENYA**

<b>Transmission Time (Time Group) (UTC)</b>	<b>Details of Chart</b>	<b>Map Area</b>	<b>Drum Speed</b>	<b>TTAAii</b>	<b>CCCC</b>
0922(00) 2133(12)	FL340 prognostic	B	120/576		
0941(00) 2152(12)	FL390 prognostic	B	120/576		
1017(00) 2350(12)	Sigwx FL100-250	A	120/576		
1057(06)	Surface analysis	D	120/576		
1112 1653(12)	850 HPA upper-air analysis	B	120/576		
1127(06) 1455(12)	24-hour change of pressure	D	120/576		
1142 1802(12)	H+24 surface prognosis	B	120/576		
1210 1820(12)	FL100 upper-air analysis	D	120/576		
1229 1839(12)	FL180 upper-air analysis	D	120/576		
1248 1858(12)	FL300 upper-air analysis	D	120/576		
1307 1917(12)	FL340 upper-air analysis	D	120/576		
1326 1936(12)	FL390 upper-air analysis	B	120/576		
1345(06) 1708(12)	Indian Ocean analysis	E/B	120/576		
1376(12) 1430(12)	Low level convergence zone	C	120/576		
1600(06)	Sigwx FL250 (segment)	A	120/576		
1638(12)	Surface analysis	D	120/576		

NOTE  
(a) Changes to the schedule will be transmitted at 0830 in place of the normal test chart

Within a radius of 3 000 miles from Nairobi

**Web Link:** --

**NEW ZEALAND****Wellington (Transmitting station: Auckland)****Region:** V  
**Position:** 41°17'12"S 174°46'32"E**METAREA:** XIV  
**Area of reception:** 30 N - 60S, 140E - 120 W**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
16 340.1 kHz	ZKLF	F3C	white +400 Hz, black -400 Hz	5 kW	2145-0500
13 550.5 kHz	ZKLF	F3C	white +400 Hz, black -400 Hz	5 kW	H24
9 459 kHz	ZKLF	F3C	white +400 Hz, black -400 Hz	5 kW	H24
5 807 kHz	ZKLF	F3C	white +400 Hz, black -400 Hz	5 kW	H24
3 247.4 kHz	ZKLF	F3C	white +400 Hz, black -400 Hz	5 kW	0945-1700

**II. MAP AREA - ZONE COUVERTE PAR LA CARTE**

Area	Area Coverage	Projection	Scale
SWP	SW Pacific		
TNZ	Tasman Sea - New Zealand		

**III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
0000(00), 1200(12)	Southwest Pacific 30 hour surface prognosis (MSL)	SWP	120/576		NZKL
0100(00) 1300(12)	Southwest Pacific 48 hour surface prognosis (MSL)	SWP	120/576		NZKL
0200(00) 1400(12)	Southwest Pacific 72 hour surface prognosis (MSL)	SWP	120/576		NZKL
0300(00) 0900(06) 1500(12) 2100(18)	TASMAN-NEW ZEALAND MSL analysis	TNZ	120/576		NZKL
0400(00) 1000(06) 1600(12) 2200(18)	Southwest Pacific MSL analysis	SWP	120/576		NZKL
1100 2300	Transmission schedule	-	-		

Single transmitter used. Times reflect broadcast times at 5807 kHz  
 Add 15 minutes for 9459 kHz, 30 minutes for 13550.5 kHz and 45 minutes for 3247.4 and 16340.1 kHz

**Web Link:** --

**REPUBLIC OF KOREA**

**Seoul Meteo**

**Region:** II  
**Position:** 37°32'00"N 127°00'00"E

**METAREA:** XI

**Area of reception:**

**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
3 585 kHz					1200-0000
7 433.5 kHz					H24
13 570 kHz					H24
9 165 kHz					0000-1200

**II. MAP AREA - ZONE COUVERTE PAR LA CARTE**

Area	Area Coverage	Projection	Scale
A	39.7°E-41.9°N 160.6°W-55.1°N 84.0°E-1.1°N 156.8°E-6.5°N		
B	82.6°E-49.5°N 160.4°E-52.4°N 100.7°E-16.3°N 145.5°E-17.8°N		
C	0°E-70°N 0°W-70°N 0°E-70°S 0°W-70°S		
D	100°E-60°N 180°E-60°N 100°E-10°N 180°E-10°N		
E	120°E-45°N 135°E-45°N 120°E-25°N 135°E-25°N		
F	102.5°E-65.5°N 168.5°W-58.7°N 117°E-32°N 158.5°E-28.5°N		

**III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
0000	Broadcasting Schedule	--	120/576		RKSL
0012	Broadcasting Schedule	--	120/576		RKSL
0014	Surface Analysis Chart	A	120/576	ASAS	RKSL
0026	Surface Analysis Chart(Edited)	A	120/576	AXAS	RKSL
0039	Surface Forecast Chart(24h/Edited)	A	120/576	FXAS24	RKSL
0100	Wind-Wave Forecast Chart(48h)	E	120/576	FWK04	RKSL

**REPUBLIC OF KOREA**

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
0114	Wind-Wave Forecast Chart(60h)	E	120/576	FWK05	RKSL
0128	Wind-Wave Forecast Chart(72h)	E	120/576	FWK06	RKSL
0147	Surface Analysis Chart	B	120/576	ASFE	RKSL
0200	Warning Typhoon Report(1)	--	120/576		RKSL
0214	500hPa Forecast Chart(24h)	A	120/576	FUAS50	RKSL
0232	Wind-Wave Forecast Chart(48h)	D	120/576	FWAS	RKSL
0248	Surface Forecast Chart(24h/Edited)	A	120/576	FXAS24	RKSL
0310	Wind-Wave Forecast Chart	C	120/576		RKSL
0340	Daily SST Chart	D	120/576		RKSL
0400	Surface Analysis Chart	A	120/576	ASAS	RKSL
0414	Wave Analysis Chart	E	120/576	AWKO	RKSL
0430	NH Satellite Image	--	120/576		RKSL
0447	Surface Analysis Chart	B	120/576	ASFE	RKSL
0500	500hPa Analysis Chart	A	120/576	AUAS50	RKSL
0513	500hPa Forecast Chart(24h)	A	120/576	FUAS50	RKSL
0530	500hPa Forecast Chart(48h)	A	120/576	FUAS50	RKSL
0548	Surface Analysis Chart(Edited)	A	120/576	AXAS	RKSL
0600	Warning Typhoon Report(1)	--	120/576		RKSL
0625	Wind-Wave Forecast Chart	C	120/576		RKSL
0648	Surface Forecast Chart(24h/Edited)	A	120/576	FXAS24	RKSL
0700	Wind-Wave Forecast Chart(12h)	E	120/576	FWK01	RKSL
0714	Wind-Wave Forecast Chart(24h)	E	120/576	FWK02	RKSL
0728	Wind-Wave Forecast Chart(36h)	E	120/576	FWK03	RKSL
0747	Surface Analysis Chart	B	120/576	ASFE	RKSL
0800	Warning Typhoon Report(1)	--	120/576		RKSL
0814	Wind-Wave Forecast Chart(48h)	D	120/576	FWAS	RKSL
0830	Surface Forecast Chart(24h/Edited)	A	120/576	FXAS24	RKSL
0843	Wave Analysis Chart	E	120/576	AWKO	RKSL

**REPUBLIC OF KOREA**

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
0900	SST Forecast Chart(24h)	D	120/576	FSST01	RKSL
0915	SST Forecast Chart(48h)	D	120/576	FSST02	RKSL
0930	SST Forecast Chart(72h)	D	120/576	FSST03	RKSL
0945	500hPa Analysis Chart	A	120/576	AUAS50	RKSL
1000	Warning Typhoon Report(1)	--	120/576		RKSL
1014	Wind-Wave Forecast Chart(24h)	E	120/576	FWK02	RKSL
1030	NH Satellite Image	--	120/576		RKSL
1047	Surface Analysis Chart	B	120/576	ASFE	RKSL
1100	Sea-icing Analysis Chart	F	120/576	FSI00	RKSL
1115	Sea-icing Forecast chart(24h)	F	120/576	FSI01	RKSL
1130	Sea-icing Forecast chart(48h)	F	120/576	FSI02	RKSL
1146	Notice	--	120/576		RKSL
1200	Test Chart	--	120/576		RKSL
1214	Surface Analysis Chart	A	120/576	ASAS	RKSL
1226	Surface Analysis Chart(Edited)	A	120/576	AXAS	RKSL
1239	Surface Forecast Chart(24h/Edited)	A	120/576	FXAS24	RKSL
1300	Wind-Wave Forecast Chart(48h)	E	120/576	FWK04	RKSL
1314	Wind-Wave Forecast Chart(60h)	E	120/576	FWK05	RKSL
1328	Wind-Wave Forecast Chart(72h)	E	120/576	FWK06	RKSL
1347	Surface Analysis Chart	B	120/576	ASFE	RKSL
1400	Warning Typhoon Report(1)	--	120/576		RKSL
1414	500hPa Forecast Chart(24h)	A	120/576	FUAS50	RKSL
1432	Wind-Wave Forecast Chart(48h)	D	120/576	FWAS	RKSL
1448	Surface Forecast Chart(24h/Edited)	A	120/576	FXAS24	RKSL
1510	Wind-Wave Forecast Chart	C	120/576		RKSL
1540	Daily SST Chart	D	120/576		RKSL
1600	Surface Analysis Chart	A	120/576	ASAS	RKSL
1614	Wave Analysis Chart	E	120/576	AWKO	RKSL

## REPUBLIC OF KOREA

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
1630	NH Satellite Image	--	120/576		RKSL
1647	Surface Analysis Chart	B	120/576	ASFE	RKSL
1700	500hPa Analysis Chart	A	120/576	AUAS50	RKSL
1713	500hPa Forecast Chart(24h)	A	120/576	FUAS50	RKSL
1730	500hPa Forecast Chart(48h)	A	120/576	FUAS50	RKSL
1748	Surface Analysis Chart(Edited)	A	120/576	AXAS	RKSL
1800	Warning Typhoon Report(1)	--	120/576		RKSL
1825	Wind-Wave Forecast Chart	C	120/576		RKSL
1848	Surface Forecast Chart(24h/Edited)	A	120/576	FXAS24	RKSL
1900	Wind-Wave Forecast Chart(12h)	E	120/576	FWK01	RKSL
1914	Wind-Wave Forecast Chart(24h)	E	120/576	FWK02	RKSL
1928	Wind-Wave Forecast Chart(36h)	E	120/576	FWK03	RKSL
1947	Surface Analysis Chart	B	120/576	ASFE	RKSL
2000	Warning Typhoon Report(1)	--	120/576		RKSL
2014	Wind-Wave Forecast Chart(48h)	D	120/576	FWAS	RKSL
2030	Surface Forecast Chart(24h/Edited)	A	120/576	FXAS24	RKSL
2043	Wave Analysis Chart	E	120/576	AWKO	RKSL
2100	SST Forecast Chart(24h)	D	120/576	FSST01	RKSL
2115	SST Forecast Chart(48h)	D	120/576	FSST02	RKSL
2130	SST Forecast Chart(72h)	D	120/576	FSST03	RKSL
2145	500hPa Analysis Chart	A	120/576	AUAS50	RKSL
2200	Wind-Wave Forecast Chart(24h)	E	120/576	FWK02	RKSL
2230	NH Satellite Image	--	120/576		RKSL
2247	Surface Analysis Chart	B	120/576	ASFE	RKSL

(1) In case of typhoon.

**Web Link:** --



## RUSSIAN FEDERATION (EUROPE)

Murmansk

Region: VI

Position: 68°52'00"N 033°05'00"E

METAREA: I

Area of reception: Arctic Coast - North Atlantic to Barents Sea. Basic coverage area is for Barents Sea.

### I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
7 907 kHz		F3C	-	-	1900-0600
8 444 kHz		F3C	-	-	
6 446 kHz		F3C	-	-	H24

### II. MAP AREA - ZONE COUVERTE PAR LA CARTE

Area	Area Coverage	Projection	Scale
A	67°N 032°W, 53°N 047°E, 72°N 074°E, 51°N 004°W		1: 5,000,000
B	79°N 010°E, 74°N 010°E, 79°N 040°E, 74°N 040°E	Mercator	1: 3,000,000
C	78°N 010°E, 66°N 010°E, 78°N 070°E, 66°N 070°E	Mercator	1: 5,000,000

### III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
0700(00)	36 hour surface prognosis	A	120/576		
0800(06)	Sea state analysis	C	120/576		
1400(12)	Analysis of iceberg positions for past 24 hours	C	120/576		
1400(12)	Surface temperature analysis / Iceberg positions	B	120/576		
1430(12)	24 hour sea state prognosis	C	120/576		
1850	Broadcast schedule	-	90/576		
2000	Iceberg prognosis	-	120/576		

(1) Basic coverage area is for Barents Sea.

Web Link: --

**RUSSIAN FEDERATION (IN ASIA)****Pevek****Region:** II**Position:** 69°42'10"N 170°17'60"E**METAREA:** XXI**Area of reception:** Arctic Coast**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
148 kHz	-	F3C	-	-	H24

**II. MAP AREA - ZONE COUVERTE PAR LA CARTE****III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
0530-0730	Ice	-	90/576		
1130-1330	Ice	-	90/576		
1430-1630	Ice	-	90/576		

**Web Link:** --

**SOUTH AFRICA****Cape Naval (NAVCOMCEN Cape)****Region:** I  
**Position:** 33°41'00"S 018°43'00"E**METAREA:** VII**Area of reception:****I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
18 238 kHz	ZSJ	J3C	-	10 kW	0600-1600 (when available)
13 538 kHz	ZSJ	J3C	-	10 kW	H24
7 508 kHz	ZSJ	J3C	-	10 kW	H24
4 014 kHz	ZSJ	J3C	-	10 kW	1600-0600 (when available)

**II. MAP AREA - ZONE COUVERTE PAR LA CARTE**

Area	Area Coverage	Projection	Scale
AIAA	30E to 30W Antarctic coast to edge of ice pack except NIC West		
ASXX	00S20W 00S70E 60S50W 60S90E	Lambert	1:20,000
FSXX	05S15W 05S60E 60S15W 60S60E	Mercator	1:20,000
FUXX	05S15W 05S60E 60S15W 60S60E	Mercator	1:20,000

**III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
0430	SCHEDULE	--	120/576		
0500(00)	SURFACE ANALYSIS(SHIPPING)	ASXX	120/576		
0630(12)	AIR PROGNOSSES (PREVIOUS DAY'S RUN)	FUXX	120/576		
0730(12)	SURFACE PROGNOSSES (PREVIOUS DAY'S RUN)	FSXX	120/576		
0800	ANTARCTIC ICE LIMITS (OCTOBER TO MARCH)	AIAA	120/576		
0915	RTTY WEATHER BULLETINS FOR COASTAL WATERS AND HIGHSEAS RTTY (170 Hz shift, 75 Baud)	--	--		
1030(06)	SURFACE ANALYSIS(SHIPPING)	ASXX	120/576		

## SOUTH AFRICA

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
1100(00)	SURFACE PROGNOSSES	FSXX	120/576		
1530(12)	SURFACE ANALYSIS(SHIPPING)	ASXX	120/576		
1700	RTTY WEATHER BULLETINS FOR COASTAL WATERS AND HIGHSEAS RTTY (170 Hz shift, 75 baud)	--	--		
2230(18)	SURFACE ANALYSIS(SHIPPING)	ASXX	120/576		

Note: Due to operational requirements, broadcasts may be adjusted without notification.

(1) Only broadcast between October and March.

**Web Link:** <http://www.weathersa.co.za/Marine/FrequencyShipFCBroadcast.jsp>

**THAILAND****Bangkok (Nonthaburi) Meteorological****Region:** II**Position:** 13°06'00"N 100°56'00"E**METAREA:** XI**Area of reception:** West Pacific Sea of Japan. Gulf of Thailand, West coast of southern Thailand, Strait of Malacca and South China Sea (see map)**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
7 395 kHz (1)	HSW64	J3C		3 kW	

**II. MAP AREA - ZONE COUVERTE PAR LA CARTE**

Area	Area Coverage	Projection	Scale
A	50°N-45°E; 50°N-160°E; 30°S-45°E; 30°S-160°E	Mercator	1: 20.000.000

**III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
0050	TEST CHART	--	120/576		
0100(00)	FORECAST FOR SHIPPING (IN ENGLISH)	A	120/576		
0120(12)	SURFACE PRESSURE	A	120/576		
0140(18)	SURFACE ANALYSIS	A	120/576		
0200	BROADCAST SCHEDULE	--	120/576		
0300(12)	24 HR SURFACE PROG	A	120/576		
0320(12)	48 HR SURFACE PROG	A	120/576		
0340(12)	72 HR SURFACE PROG	A	120/576		
0700(06)	FORECAST FOR SHIPPING (IN ENGLISH)	A	120/576		
0720(12)	24 HR SURFACE PROG	A	120/576		
0740(12)	48 HR SURFACE PROG	A	120/576		
0800(12)	72 HR SURFACE PROG	A	120/576		

## THAILAND

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
0820(12)	24 HR 850 mb WIND/TEMP PROG	A	120/576		

(1) May refer to carrier frequency, for center frequency add 1.9 kHz.

**Web Link:** --

# UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

**Northwood**

**Region:** VI  
**Position:** 51°37'00"N 000°25'00"W

**METAREA:** I  
**Area of reception:** North Atlantic (Central and Eastern areas), North-west Europe and the Mediterranean area

## I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES

	Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
	18 261 kHz	GYA		J3C	10 kW	0800-1800
	12 390 kHz	GYA		J3C	10 kW	H24
	6 834 kHz	GYA		J3C	10 kW	1800-0800
North Atlantic	2 618.5 kHz	GYA	-	J3C	10 kW	2000-0600
North Atlantic	4 610 kHz	GYA	-	J3C	10 kW	H24
North Atlantic	8 040 kHz	GYA	-	J3C	10 kW	H24
North Atlantic	11 086.5 kHz	GYA	-	J3C	10 kW	0600-2000

## II. MAP AREA - ZONE COUVERTE PAR LA CARTE

Area	Area Coverage	Projection	Scale
A	54°N-82°W; 26°N-45°W; 54°N.51°E; 285°N-12°E	North Atlantic	
B	40°30'N-15°30'E; 40°30'N-80°E; 3°N-15°30'E; 3°N-80°E	Gulf	

## III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
0000(18), 1200(06)	Surface analysis	A	120/576		
0012(18), 1212(06)	24 hour surface prognosis	A	120/576		
0024(18), 1224(06)	24 hour 850 hPa WBPT/PPTN	A	120/576		
0036(18), 1236(06)	24 hour air temperature / dew point	A	120/576		
0048(12), 1248(00)	Ship Ice Accretion	A	120/576		
0100, 1300	Schedule	A	120/576		

**UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND**

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
0106, 1306	Schedule	B	120/576		
0118 1318	Request for reception quality reports	B	120/576		
0124 1324	Request for reception quality reports	A	120/576		
0136, 1336	Ocean fronts	A	120/576		
0142	Symbology	B	120/576		
0148(18), 1348(06)	300 hPa geopotential height analysis	A	120/576		
0212	Symbology	A	120/576		
0236(00), 1436(12)	Surface analysis	A	120/576		
0300(00), 1500(12)	Surface analysis	A	120/576		
0306(00), 1506(12)	Surface analysis	B	120/576		
0348(04), 1548(16)	Gale warning summary	A	120/576		
0354(00), 1554(12)	Streamline analysis	B	120/576		
0400(00), 1600(12)	Surface analysis	A	120/576		
0406(00), 1606(12)	Surface analysis	B	120/576		
0412(00), 1612(12)	24 hour air temperature / dew point	A	120/576		
0418(00), 1618(12)	24 hour 700 hPa WBPT/PPTN	B	120/576		
0424(00), 1624(12)	24 hour 850 hPa WBPT / PPTN	A	120/576		
0430(00), 1630(12)	24 hour air temperature / dew point	B	120/576		
0436(00), 1636(12)	24 hour surface prognosis	A	120/576		
0442(00), 1642(12)	24 hour surface prognosis	B	120/576		
0448(06), 1648(18)	SCEXA TAFS	A	120/576		
0454(03), 1654(15)	Gulf TAFS	B	120/576		
0500(00), 1700(12)	Surface analysis	A	120/576		
0506(00), 1706(12)	Surface analysis	B	120/576		
0512(00), 1712(12)	24 hour surface prognosis	A	120/576		
0518(00), 1718(12)	24 hour surface prognosis	B	120/576		
0524(00), 1724(12)	48 hour surface prognosis	A	120/576		
0530(00), 1730(12)	48 hour surface prognosis	B	120/576		



**UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND**

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
0536(06), 1736(18)	SCEXA TAFS	A	120/576		
0542(06), 1742(18)	Gulf TAFS	B	120/576		
0548(06), 1748(18)	Gale warning summary	A	120/576		
0600	NWEXAS TAFS	A	120/576		
0600(00), 1800(12)	Surface analysis	A	120/576		
0606(00), 1806(12)	Surface analysis	B	120/576		
0612(00), 1812(12)	24 hour surface prognosis	A	120/576		
0618(00), 1818(12)	24 hour surface prognosis	B	120/576		
0648(07), 1848(19)	SCEXA TAFS	A	120/576		
0654(06), 1854(18)	Gulf TAFS	B	120/576		
0700(07), 1900(19)	Spare SCEXA TAFS	A	120/576		
0706, 1906	Spare TAFS	B	120/576		
0712(00), 1912(12)	24 hour significant wind prognosis	A	120/576		
0718(00), 1918(12)	24 hour significant wind prognosis	B	120/576		
0724(00), 1924(24)	48 hour surface prognosis	A	120/576		
0730(00), 1930(12)	48 hour surface prognosis	B	120/576		
0736(00), 1936(12)	72 hour surface prognosis	A	120/576		
0742(00), 1942(12)	72 hour surface prognosis	B	120/576		
0748(00), 1948(12)	96 hour surface prognosis	A	120/576		
0754(00), 1954(12)	96 hour surface prognosis	B	120/576		
0800(00), 2000(12)	120 hour surface prognosis	A	120/576		
0806(00), 2006(12)	120 hour surface prognosis	B	120/576		
0812(00), 2012(12)	Thickness/Geopotential height analysis	A	120/576		
0818(00), 2018(12)	Thickness/Geopotential height analysis	B	120/576		
0824(00), 2024(12)	48 hour surface prognosis	A	120/576		
0830(00), 2030(12)	48 hour surface significant winds	B	120/576		
0836(00), 2036(12)	72 hour significant winds	A	120/576		
0842(00), 2042(12)	72 hour surface significant winds	B	120/576		

**UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND**

<b>Transmission Time (Time Group) (UTC)</b>	<b>Details of Chart</b>	<b>Map Area</b>	<b>Drum Speed</b>	<b>TTAAii</b>	<b>CCCC</b>
0848(00), 2048(12)	96 hour significant winds	A	120/576		
0854(00), 2054(12)	96 hour surface significant winds	B	120/576		
0900(06), 2100(18)	Surface analysis	A	120/576		
0906(00), 2106(12)	Thickness/geopotential height analysis	B	120/576		
0912(00), 2112(12)	Thickness/Geopotential height analysis	A	120/576		
0924(00), 2124(12)	24 hour thickness / geopotential height analysis	A	120/576		
0936(00), 2136(12)	24 hour 850 hPa spot winds	A	120/576		
0942(00), 2142(12)	24 hour 850 hPa winds	B	120/576		
0948(00), 2148(12)	24 hour 700 hPa spot winds	A	120/576		
1000(06), 2200(18)	Surface analysis	A	120/576		
1006(00), 2206	Sea surface temperature	B	120/576		
1012(06), 2212(18)	24 hour surface prognosis	A	120/576		
1024(06), 2224(18)	24 hour reduced visibility	A	120/576		
1036(06), 2236(18)	24 hour 850 hPa wet bulb potential temperature/precipitation	A	120/576		
1042(00), 2242(18)	24 hour 700 hPa WBPT/PPT	B	120/576		
1048(06), 2248(18)	24 hour air temperature / dew point	A	120/576		
1054(06), 2254(18)	24 hour air temperature / dew point	B	120/576		
1100(06), 2300(18)	Surface analysis	A	120/576		
1112(06), 2312(18)	24 hour surface prognosis	A	120/576		
1124(06), 2324(18)	24 hour sea and swell	A	120/576		
1130(06), 2330(18)	24 hour sea and swell prognosis	B	120/576		
1136(00), 2336(12)	24 hour thickness / geopotential height analysis	A	120/576		
1148(00), 2348(12)	Gale warning summary	A	120/576		
1400(00)	12 hour sea surface temperature	A	120/576		
1824	NWEXAS TAFS	A	120/576		

## **UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND**

### Abbreviations used:

WBPT - Wet bulb potential temperature

PPTN - Precipitation

### Notes:

1. Normally three frequencies are in operation at any time. Users should note that transmission of the carrier is turned off between each transmission.
2. Other products to meet the requirements of the Royal Navy, are included in the broadcast, but not listed above.
3. The broadcast from Northwood is maintained to meet the requirements of the Royal Navy. Consequently the broadcast is subject to change or withdrawal without notice

**Web Link:** --

**UNITED STATES OF AMERICA**

**Pt. Reyes, California**

**Region:** IV  
**Position:** 37°55'00"N 122°42'00"W

**METAREA:** XII  
**Area of reception:** Pacific Coast

**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
4 346 kHz	NMC	F3C	-	4 kW	0140-1608
12 786 kHz	NMC	F3C	-	4 kW	ALL BROADCAST TIMES
17 151.2 kHz	NMC	F3C	-	4 kW	ALL BROADCAST TIMES
22 527 kHz	NMC	F3C	-	4 kW	1840-2356
8 682 kHz	NMC	F3C	-	4 kW	ALL BROADCAST TIMES

**II. MAP AREA - ZONE COUVERTE PAR LA CARTE**

Area	Area Coverage	Projection	Scale
1.	20N - 70N, 115W - 135E		
10.	0N - 40N, 80W - 180W		
2.	20N - 70N, 115W - 175W		
3.	20N - 70N, 175W - 135E		
4.	20S - 30N, EAST OF 145W		
5.	05N - 55N, EAST OF 180W		
6.	23N - 42N, EAST OF 150W		
7.	05N - 32N, EAST OF 130W		
8.	18N - 62N, EAST OF 157W		
9.	40N - 53N, EAST OF 136W		

**III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
----/1822	24HR SURFACE FORECAST	8	120/576		
----/1832	24HR WIND/WAVE FORECAST	8	120/576		

**UNITED STATES OF AMERICA**

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
----/1842	24HR 500MB FORECAST	1	120/576		
----/1852	SST ANALYSIS	9	120/576		
----/1902	SST ANALYSIS	6	120/576		
----/1933	96HR SURFACE FORECAST	1	120/576		
----/1943	96HR WIND/WAVE FORECAST	1	120/576		
----/1953	96HR 500MB FORECAST	1	120/576		
----/2003	96HR WAVE PERIOD/SWELL DIRECTION	1	120/576		
----/2053	72HR SURFACE FORECAST	1	120/576		
----/2103	72HR WIND/WAVE FORECAST	1	120/576		
----/2356	TROPICAL 72HR WAVE PERIOD/SWELL DIR	4	120/576		
0140/1400	TEST PATTERN		120/576		
0143/1403	NE PACIFIC GOES IR SATELLITE IMAGE	6	120/576		
0154/1414	PACIFIC GOES IR SATELLITE IMAGE	5	120/576		
0205/1425	TROPICAL SEA STATE ANALYSIS	4	120/576		
0215/1435	TROPICAL 48HR SURFACE FORECAST	4	120/576		
0225/----	TROPICAL 48HR WIND/WAVE FORECAST	4	120/576		
0235/----	TROPICAL 72HR WIND/WAVE FORECAST	4	120/576		
0245/1445	500MB ANALYSIS	1	120/576		
0255/1455	SEA STATE ANALYSIS, WIND/WAVE ANALYSIS	1/8	120/576		
0305/1505	PRELIM SURFACE ANALYSIS(PART 1 NE PAC)	2	120/576		
0318/1518	PRELIM SURFACE ANALYSIS(PART 2 NW PAC)	3	120/576		
0331/1531	FINAL SURFACE ANALYSIS(PART 1 NE PAC)	2	120/576		
0344/1544	FINAL SURFACE ANALYSIS(PART 2 NW PAC)	3	120/576		
0357/1557	CYCLONE DANGER AREA* or HIGH WIND/WAVES	10	120/576		
0408/1608	TROPICAL SURFACE ANALYSIS	4	120/576		
0655/1820	TEST PATTERN				
0657/----	1953Z REBROADCAST (96HR 500MB)	1	120/576		
0707/----	1933Z REBROADCAST (96HR SURFACE)	1	120/576		

**UNITED STATES OF AMERICA**

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
0717/----	1943Z REBROADCAST (96HR WIND/WAVE)	1	120/576		
0727/----	2003Z REBROADCAST (96HR WAVE PERIOD)	1	120/576		
0737/1913	TROPICAL GOES IR SATELLITE IMAGE	7	120/576		
0748/1923	WIND/WAVE ANALYSIS	8	120/576		
0758/----	24HR SURFACE FORECAST	8	120/576		
0808/----	24HR WIND/WAVE FORECAST	8	120/576		
0818/----	24HR 500MB FORECAST	1	120/576		
0828/2013	48HR SURFACE FORECAST	1	120/576		
0838/2023	48HR WIND/WAVE FORECAST	1	120/576		
0848/2033	48HR 500MB FORECAST	1	120/576		
0858/2043	48HR WAVE PERIOD/SWELL DIRECTION	1	120/576		
0908/2113	PACIFIC GOES IR SATELLITE IMAGE	5	120/576		
0919/2124	SURFACE ANALYSIS (PART 1 NE PACIFIC)	2	120/576		
0932/2137	SURFACE ANALYSIS (PART 2 NW PACIFIC)	3	120/576		
0945/2150	TROPICAL SURFACE ANALYSIS	4	120/576		
0959/2204	TROPICAL 24HR WIND/WAVE FORECAST	4	120/576		
1009/2214	CYCLONE DANGER AREA* or HIGH WIND/WAVES	10	120/576		
1120/2320	TEST PATTERN		120/576		
1124/2324	BROADCAST SCHEDULE (PART 1)		120/576		
1135/2335	BROADCAST SCHEDULE (PART 2)		120/576		
1146/----	REQUEST FOR COMMENTS		120/576		
1157/----	PRODUCT NOTICE BULLETIN		120/576		
1208/----	TROPICAL 48HR WIND/WAVE FORECAST	4	120/576		
1218/----	TROPICAL 72HR WIND/WAVE FORECAST	4	120/576		
1228/2346	TROPICAL 48HR WAVE PERIOD/SWELL DIR	4	120/576		
1608(12)	TROPICAL SURFACE ANALYSIS	4	120/576		
1842(latest)	SST ANALYSIS	9	120/576		
1852(latest)	SST ANALYSIS	6	120/576		

**UNITED STATES OF AMERICA**

<b>Transmission Time (Time Group) (UTC)</b>	<b>Details of Chart</b>	<b>Map Area</b>	<b>Drum Speed</b>	<b>TTAAii</b>	<b>CCCC</b>
1902(18)	TROPICAL GOES IR SATELLITE IMAGE	7	120/576		
1913(18)	WIND/WAVE ANALYSIS	8	120/576		
1923(12)	24HR 500 mb FORECAST	1	120/576		
1933(12)	24HR SURFACE FORECAST	8	120/576		
1943(12)	24HR WIND/WAVE FORECAST	8	120/576		
1953(12)	48HR 500 mb FORECAST	1	120/576		
2003(12)	48HR SURFACE FORECAST	1	120/576		
2013(12)	48HR WIND/WAVE FORECAST	1	120/576		
2023(12)	48HR WAVE PERIOD/SWELL DIRECTION	1	120/576		
2033(12)	96HR 500 mb FORECAST	1	120/576		
2043(12)	96HR SURFACE FORECAST	1	120/576		
2053(12)	96HR WIND/WAVE FORECAST	1	120/576		
2103(12)	96HR WAVE PERIOD/SWELL DIRECTION	1	120/576		
2113(18)	PACIFIC GOES IR SATELLITE IMAGE	5	120/576		
2124(18)	SURFACE ANALYSIS (PART 1 NE PACIFIC)	2	120/576		
2137(18)	SURFACE ANALYSIS (PART 2 NW PACIFIC)	3	120/576		
2150(18)	TROPICAL SURFACE ANALYSIS	4	120/576		
2204(12)	TROPICAL 24HR WIND/WAVE FORECAST	4	120/576		
2214(21)	CYCLONE DANGER AREA* or HIGH WIND/WAVES	10	120/576		
2320	TEST PATTERN	--	120/576		
2324	BROADCAST SCHEDULE (PART 1)	--	120/576		
2335	BROADCAST SCHEDULE (PART 2)	--	120/576		
2346(12)	TROPICAL 48HR WAVE PERIOD/SWELL DIR	4	120/576		
2356(00)	TROPICAL 72HR WAVE PERIOD/SWELL DIR	4	120/576		

## **UNITED STATES OF AMERICA**

### NOTES:

1. CARRIER FREQUENCY IS 1.9 kHz BELOW THE ASSIGNED FREQUENCY
2. Many of these charts also broadcast from Kodiak, AK and Honolulu, HI

\* Tropical Cyclone Danger Area chart replaced by 48HR High Wind/Wave Warning chart Dec 01 - May 14 Valid times 00z, 06z, 12z and 18z

**Web Link:** --



**UNITED STATES OF AMERICA**

**Boston, Massachusetts (USCG)**

**Region:** IV  
**Position:** 41°42'00"N 070°30'00"W

**METAREA:** IV  
**Area of reception:** North Atlantic to Barents Sea

**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
4 235 kHz	NMF	F3C	-	4 KW	0230z-1039
9 110 kHz	NMF	F3C	-	4 KW	ALL BROADCAST TIMES
12 750 kHz	NMF	F3C	-	4 KW	1400z-2239
6 340.5 kHz	NMF	F3C	-	4 KW	ALL BROADCAST TIMES

**II. MAP AREA - ZONE COUVERTE PAR LA CARTE**

Area	Area Coverage	Projection	Scale
1.	28N-52N, 45W-85W		
2.	18N-65N, 10E-45W		
3.	18N-65N, 40W-95W		
4.	18N-65N, 10E-95W		
5.	20N-55N, 55W-95W		
6.	EQ-60N, 40W-130W		
7.	05N-60N, 0W-100W		
8.	22N-51N, 40W-98W		

**III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
----/1443	PRODUCT NOTICE BULLETIN		120/576		
----/1453	PRELIMINARY SURFACE ANALYSIS	1	120/576		
----/1503	SATELLITE IMAGE	5	120/576		
----/1600	ICE CHART (REBROADCAST)		120/576		
----/1720	TEST PATTERN		120/576		

**UNITED STATES OF AMERICA**

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
----/1759	SEA STATE ANALYSIS	4	120/576		
----/1810	24HR SURFACE FORECAST	8	120/576		
----/1835	24HR WIND/WAVE FORECAST	8	120/576		
----/1855	24HR 500MB FORECAST	4	120/576		
----/1915	96HR SURFACE FORECAST	4	120/576		
----/1925	96HR WIND/WAVE FORECAST	4	120/576		
----/1935	96HR 500MB FORECAST	4	120/576		
----/1945	96HR WAVE PERIOD FORECAST	4	120/576		
----/2035	PRELIMINARY SURFACE ANALYSIS	1	120/576		
----/2045	72HR SURFACE FORECAST	4	120/576		
----/2055	72HR WIND/WAVE FORECAST	4	120/576		
----/2105	72HR 500MB FORECAST	4	120/576		
----/2115	72HR WAVE PERIOD FORECAST	4	120/576		
0230/1400	TEST PATTERN		120/576		
0233/----	PRELIMINARY SURFACE ANALYSIS	1	120/576		
0243/1405	BROADCAST SCHEDULE (PART 1)		120/576		
0254/1420	BROADCAST SCHEDULE (PART 2)		120/576		
0305/1433	REQUEST FOR COMMENTS		120/576		
0315/1515	WIND/WAVE ANALYSIS	8	120/576		
0325/1525	SURFACE ANALYSIS (PART 1 NE ATLANTIC)	2	120/576		
0338/1538	SURFACE ANALYSIS (PART 2 NW ATLANTIC)	3	120/576		
0351/----	SATELLITE IMAGE	5	120/576		
0402/1723	(REBROADCAST OF 0325/1525 NE ATLANTIC)	2	120/576		
0415/1736	(REBROADCAST OF 0338/1538 NW ATLANTIC)	3	120/576		
0428/1749	500MB ANALYSIS	4	120/576		
0438/----	ICE CHART (REBROADCAST)		120/576		
0452/1824	CYCLONE DANGER AREA* or HIGH WIND/WAVES	7	120/576		
0745/----	TEST PATTERN		120/576		

**UNITED STATES OF AMERICA**

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
0755/----	PRELIMINARY SURFACE ANALYSIS	1	120/576		
0805/----	24HR SURFACE FORECAST	8	120/576		
0815/----	24HR WIND/WAVE FORECAST	8	120/576		
0825/----	24HR 500MB FORECAST	4	120/576		
0835/1905	36HR 500MB FORECAST	4	120/576		
0845/1955	48HR SURFACE FORECAST	4	120/576		
0855/2005	48HR WIND/WAVE FORECAST	4	120/576		
0905/2015	48HR 500MB FORECAST	4	120/576		
0915/2025	48HR WAVE PERIOD FORECAST	4	120/576		
0925/2125	SURFACE ANALYSIS (PART 1 NE ATLANTIC)	2	120/576		
0938/2138	SURFACE ANALYSIS (PART 2 NW ATLANTIC)	3	120/576		
0951/2151	SATELLITE IMAGE	6	120/576		
1002/2202	(REBROADCAST OF 0925/2125 NE ATLANTIC)	2	120/576		
1015/2215	(REBROADCAST OF 0938/2138 NW ATLANTIC)	3	120/576		
1028/2228	CYCLONE DANGER AREA* or HIGH WIND/WAVES	7	120/576		
1039/2239	REBROADCAST/N American Ice Service Chart		120/576		

NOTES:

- 1.CARRIER FREQUENCY IS 1.9 kHz BELOW THE ASSIGNED FREQUENCY
- 2.Tropical cyclone charts also broadcast from New Orleans, LA

\* Tropical Cyclone Danger Area chart replaced by 48HR High Wind/Wave Warning chart Dec 01 - May 14 Valid times 00z,06z,12z and 18z, Map area 05N-40N, 35W-100W

**Web Link:** --

**UNITED STATES OF AMERICA**

**New Orleans, Louisiana (USCG)**

**Region:** IV  
**Position:** 29°53'00"N 089°57'00"W

**METAREA:** IV  
**Area of reception:** Atlantic area

**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
8503.9 kHz	NMG	J3C		4 KW	ALL BROADCAST TIMES
12789.9 kHz	NMG	J3C		4 KW	ALL BROADCAST TIMES
17146.4 kHz	NMG	J3C		4 KW	1200-2045
4317.9 kHz	NMG	J3C		4 KW	ALL BROADCAST TIMES

**II. MAP AREA - ZONE COUVERTE PAR LA CARTE**

Area	Area Coverage	Projection	Scale
1.	5S - 50N, 55W - 125W		
2.	5S - 50N, 0W - 70W		
3.	0N - 31N, 35W - 100W		
4.	12S - 44N, 28W - 112W		
5.	7N - 31N, 35W - 98W (AREA COVERED BY TEXT FORECAST)		
6.	05N - 60N, 0W - 100W		

**III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
----- /1350	36 HR WIND/WAVE FORECAST	3	120/576		
-----/2025	BROADCAST SCHEDULE		120/576		
0000/1200	TEST PATTERN	1	120/576		
0005/1205	U.S./TROPICAL SURFACE ANALYSIS (W HALF)		120/576		
0020/1220	TROPICAL SURFACE ANALYSIS (E HALF)	2	120/576		
0035/1235	REBROADCAST OF 1925/0725 (24 HR WIND/WAVE)	3	120/576		

**UNITED STATES OF AMERICA**

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
0045/1245	REBROADCAST OF 1950/0750 (48 HR WIND/WAVE)	3	120/576		
0055/1255	REBROADCAST OF 2015/0815 (72 HR WIND/WAVE)	3	120/576		
0105/1305	REBROADCAST OF 1855/0655 (24 HR SURFACE)	3	120/576		
0115/1315	REBROADCAST OF 1905/0705 (48 HR SURFACE)	3	120/576		
0125/1325	REBROADCAST OF 1915/0715 (72 HR SURFACE)	3	120/576		
0135/1335	CYCLONE DANGER AREA* or 48 HR HIGH WIND/WAVES	6	120/576		
0150/-----	REBROADCAST OF 0825 (72 HR WAVE PD/SWELL)	3	120/576		
0200/1400	GOES IR TROPICAL SATELLITE IMAGE	4	120/576		
0215/1415	SEA STATE ANALYSIS	3	120/576		
0225/1425	REQUEST FOR COMMENTS/PRODUCT NOTICE		120/576		
0245/1445	HIGH SEAS FORECAST (IN ENGLISH)	5	120/576		
0600/1800	TEST PATTERN		120/576		
0605/1805	U.S./TROPICAL SURFACE ANALYSIS (W HALF)	1	120/576		
0620/1820	TROPICAL SURFACE ANALYSIS (E HALF)	2	120/576		
0635/1835	48 HR WAVE PERIOD/SWELL DIRECTION	3	120/576		
0645/1845	REBROADCAST OF 0215/1415 (SEA STATE ANAL')	3	120/576		
0655/1855	24 HR SURFACE FORECAST	3	120/576		
0705/1905	48 HR SURFACE FORECAST	3	120/576		
0715/1915	72 HR SURFACE FORECAST	3	120/576		
0725/1925	24 HR WIND/WAVE FORECAST	3	120/576		
0735/1935	CYCLONE DANGER AREA* or 48HR HIGH WIND/WAVES	6	120/576		
0750/1950	48 HR WIND/WAVE FORECAST	3	120/576		
0800/2000	GOES IR TROPICAL SATELLITE IMAGE	4	120/576		
0815/2015	72 HR WIND/WAVE FORECAST	3	120/576		
0825/-----	72 HR WAVE PERIOD/SWELL DIRECTION	3	120/576		
0835/-----	REBROADCAST OF 0215 (SEA STATE ANALYSIS)	3	120/576		
0845/2045	HIGH SEAS FORECAST (IN ENGLISH)	5	120/576		

## **UNITED STATES OF AMERICA**

### **NOTES:**

1. CARRIER FREQUENCY IS 1.9 kHz BELOW THE ASSIGNED FREQUENCY

2. Tropical cyclone charts also broadcast from Boston, MA

\* Tropical Cyclone Danger Area chart replaced by 48HR High Wind/Wave Warning chart Dec 01-May 14. Valid times 00z, 06z, 12z and 18z. Map area 05N-40N, 35W-100W

**Web Link:** --

**UNITED STATES OF AMERICA (ALASKA)**

**Kodiak, Alaska, USA**

**Region:** IV  
**Position:** 57°47'24"N 152°24'26"W

**METAREA:** XII & XVII  
**Area of reception:** East Pacific

**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
2054 kHz	NOJ	F3C	-	4 KW	ALL BROADCAST TIMES
4298 kHz	NOJ	F3C	-	4 KW	ALL BROADCAST TIMES
8459 kHz	NOJ	F3C	-	4 KW	ALL BROADCAST TIMES
12412.5 kHz	NOJ	F3C	-	4 KW	ALL BROADCAST TIMES

**II. MAP AREA - ZONE COUVERTE PAR LA CARTE**

Area	Area Coverage	Projection	Scale
1.	20N - 70N, 115W - 135E		
2.	40N - 70N, 125W - 150E		
3.	40N - 70N, 115W - 170E		
4.	40N - 60N, 125W - 160E		
5.	05N - 60N, 110W - 160W		
6.	ICE COVERED AK WATERS		
7.	COOK INLET		

**III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
----/0008	96HR WAVE PERIOD, SWELL DIRECTION	1	120/576		
----/0018	96HR 500 MB FORECAST	1	120/576		
----/1808	48HR 500 MB FORECAST		120/576		
----/2247	48HR WAVE PERIOD, SWELL DIRECTION	1	120/576		
----/2317	72HR SURFACE FORECAST	1	120/576		
----/2328	72HR WIND/WAVE FORECAST	1	120/576		

**UNITED STATES OF AMERICA (ALASKA)**

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
----/2338	72HR WAVE PERIOD, SWELL DIRECTION	1	120/576		
----/2348	96HR SURFACE FORECAST	1	120/576		
----/2358	96HR WIND/WAVE FORECAST	1	120/576		
0340/1540	TEST PATTERN		120/576		
0343/1543	SEA ICE ANALYSIS/REBROADCAST 1057	6	120/576		
0403/1603	SURFACE ANALYSIS	2	120/576		
0427/1627	REBROADCAST 24HR SURFACE F'CAST 2203/1017	3	120/576		
0437/1637	REBROADCAST 48HR SURFACE F'CAST 2227/1037	1	120/576		
0447/1647	REBROADCAST 96HR SURFACE F'CAST 2348	1	120/576		
0456/1656	SEA STATE ANALYSIS/REBROADCAST	1	120/576		
0506/1706	GOES IR SATELLITE IMAGE	5	120/576		
0517/1717	500 MB ANALYSIS	1	120/576		
0527/1727	SYMBOLS AND CONTRACTIONS/SCHEDULE		120/576		
0548/1748	REQUEST FOR COMMENTS/PRODUCT NOTICE		120/576		
0558/1758	24HR 500 MB FORECAST	1	120/576		
0950/2150	TEST PATTERN		120/576		
0953/2153	SURFACE ANALYSIS	2	120/576		
1017/2203	24HR SURFACE FORECAST	3	120/576		
1027/2217	24HR WIND/WAVE FORECAST	3	120/576		
1037/2227	48HR SURFACE FORECAST	1	120/576		
1047/2237	48HR WIND/WAVE FORECAST	1	120/576		
1057/2257	5-DAY SEA ICE FORECAST/REBROADCAST 0343	6	120/576		
1117/2307	GOES IR SATELLITE IMAGE	5	120/576		
1128/----	48HR WAVE PERIOD, SWELL DIRECTION	1	120/576		
1138/----	48HR 500 MB FORECAST	1	120/576		
1148/----	SEA SURFACE TEMPERATURE ANALYSIS	4	120/576		
1159/----	COOK INLET SEA ICE FORECAST	7	120/576		



## **UNITED STATES OF AMERICA (ALASKA)**

### Notes:

- 1.CARRIER FREQUENCY IS 1.9 kHz BELOW THE ASSIGNED FREQUENCY
- 2.Many of these charts also broadcast from Pt. Reyes, CA and Honolulu, HI

Schedule expanded Mar 16, 2011 to include additional ice broadcasts.

**Web Link:** --

**UNITED STATES OF AMERICA (HAWAII)**

**Honolulu, Hawaii**

**Region:** V  
**Position:** 21°22'00"N 158°09'00"W

**METAREA:** XII  
**Area of reception:** East Pacific

**I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES**

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
9 982.5 kHz	KVM70	J3C	-	4 KW	0519-1556
16 135 kHz	KVM70	J3C	-	4 KW	1719-0356
11 090 kHz	KVM70	J3C	-	4 KW	ALL BROADCAST TIMES

**II. MAP AREA - ZONE COUVERTE PAR LA CARTE**

Area	Area Coverage	Projection	Scale
1.	20N - 70N, 115W - 135E		Ocean Prediction Center
2.	20N - 70N, 115W - 175W		Ocean Prediction Center
3.	20N - 70N, 175W - 135E		Ocean Prediction Center
4.	18N - 62N, EAST OF 157W		Ocean Prediction Center
5.	05N - 55N, EAST OF 180W		Ocean Prediction Center
A.	30S - 50N, 110W - 130E		Honolulu Forecast Office
B.	30S - 30N, 110W - 130E		Honolulu Forecast Office
C.	EQ - 50N, 110W - 130E		Honolulu Forecast Office
D.	30S - 50N, 110W - 160E		Honolulu Forecast Office
E.	EQ - 40N, 80W - 170E		Honolulu Forecast Office
F.	EQ - 55N, 110W - 160E		Honolulu Forecast Office
G.	05S - 55N, 110W - 155E		Honolulu Forecast Office
H.	40S - 05N, 130W - 165E		Honolulu Forecast Office
Y.	05N - 32N, EAST OF 130W		National Hurricane Center
Z.	20S - 30N, EAST OF 145W		National Hurricane Center

**III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION**

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
0519/1719	TEST PATTERN	D	120/576		

**UNITED STATES OF AMERICA (HAWAII)**

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
0524/1724	SIGNIFICANT CLOUD FEATURES		120/576		
0535/1735	CYCLONE DANGER AREA	E	120/576		
0555/1755	STREAMLINE ANALYSIS	B	120/576		
0615/1815	SURFACE ANALYSIS	C	120/570		
0635/1835	EAST PACIFIC GOES IR SATELLITE IMAGE	G	120/576		
0649/1849	SW PACIFIC GOES IR SATELLITE IMAGE	H	120/576		
0701/1901	24HR SURFACE FORECAST	A	120/576		
0714/1914	48HR SURFACE FORECAST	A	120/576		
0727/1927	72HR SURFACE FORECAST	A	120/576		
0740/1940	WIND/WAVE ANALYSIS	B	120/576		
0753/1953	24HR WIND/WAVE FORECAST	B	120/576		
0806/2006	24HR WIND/WAVE FORECAST	4	120/576		
0816/2016	48HR SURFACE FORECAST	1	120/576		
0826/2026	48HR WIND/WAVE FORECAST	1	120/576		
0836/2036	48/96HR WAVE PERIOD,SWELL DIRECTION	1	120/576		
0846/2046	rebroadcast/ 96HR SURFACE FORECAST	1	120/576		
0856/2056	rebroadcast/ 96HR WIND/WAVE FORECAST	1	120/576		
0906/2106	PACIFIC GOES IR SATELLITE IMAGE	5	120/576		
0917/2117	SURFACE ANALYSIS (PART 1 NE PACIFIC)	2	120/576		
0930/2130	SURFACE ANALYSIS (PART 2 NW PACIFIC)	3	120/576		
0943/2143	TROPICAL GOES IR SATELLITE IMAGE	Y	120/576		
0954/2154	TROPICAL SURFACE ANALYSIS	Z	120/576		
1008/2208	24HR TROPICAL WIND/WAVE FORECAST	Z	120/576		
1042/2242	CYCLONE DANGER AREA	E	120/570		
1102/2302	48HR WIND/WAVE FORECAST	B	120/576		
1115/2315	72HR WIND/WAVE FORECAST	B	120/576		
1128/2328	SEA SURFACE TEMPS	F	120/576		
1141/2341	rebroadcast 24HR WIND/WAVE FORECASTS	B	120/576		

**UNITED STATES OF AMERICA (HAWAII)**

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
1154/2354	STREAMLINE ANALYSIS	B	120/576		
1214/0014	SURFACE ANALYSIS	C	120/576		
1234/0034	EAST PACIFIC GOES IR SATELLITE IMAGE	G	120/576		
1248/0048	SW PACIFIC GOES IR SATELLITE IMAGE	H	120/576		
1300/0100	SCHEDULE PART I		120/576		
1320/0120	SCHEDULE PART II		120/576		
1340/0140	SYMBOLS OR PRODUCT NOTICE BULLETIN		120/576		
1400/0200	24HR TROPICAL SURFACE FORECAST	Z	120/576		
1410/0210	48HR TROPICAL SURFACE FORECAST	Z	120/576		
1420/0220	72HR TROPICAL SURFACE FORECAST	Z	120/576		
1430/0230	48/72HR TROPICAL WAVE PERIOD,SWELL DIR	Z	120/576		
1440/0240	TROPICAL SEA STATE ANALYSIS	Z	120/576		
1450/0250	rebroadcast 24HR TROPICAL WIND/WAVE FORECASTS	Z	120/576		
1500/0300	48HR TROPICAL WIND/WAVE FORECAST	Z	120/576		
1510/0310	72HR TROPICAL WIND/WAVE FORECAST	Z	120/576		
1520/0320	rebroadcast/SEA STATE ANALYSIS	1	120/576		
1530/0330	SURFACE ANALYSIS(PART 1 NE PAC)	2	120/576		
1543/0343	SURFACE ANALYSIS(PART 2 NW PAC)	3	120/576		
1556/0356	TROPICAL SURFACE ANALYSIS	Z	120/576		

NOTES:

STREAMLINES ARE LINES OF CONSTANT WIND DIRECTION.

WIND SPEEDS ARE GIVEN BY WIND BARBS INDEPENDENT OF STREAMLINES.

THE SIGNIFICANT CLOUD FEATURES CHARTS DEPICT CLOUD FEATURES BASED UPON IMAGES FROM THE VARIOUS GEOSTATIONARY AND POLAR ORBITING SATELLITES OVER THE PACIFIC.

ABBREVIATIONS ON THESE CHARTS INCLUDE: AC - ALTOCUMULUS;

AS - ALTOSTRATUS; BKN - BROKEN; CB - CUMULONIMBUS; CC - CIRROCUMULUS; CI - CIRRUS; CS - CIRROSTRATUS; CU - CUMULUS; FEW - FEW; ISOL - ISOLATED; LYRS - LAYERS; NS - NIMBOSTRATUS; OVC - OVERCAST; SC - STRATO-CUMULUS; SCT - SCATTERED; TCU - TOWERING CUMULUS; TSTM - THUNDERSTORM

RADIOFAX FREQUENCIES ARE ASSIGNED FREQUENCIES. TO CONVERT TO CARRIER FREQUENCIES, SUBTRACT 1.9 KHz FROM THE ASSIGNED FREQUENCIES.

Many of these charts also broadcast from Pt. Reyes, CA and Kodiak, AK

Web Link: --

# UZBEKISTAN

**Tashkent**

**Region:** II  
**Position:** 41°18'40"N 069°14'26"E

**METAREA:** IX

**Area of reception:**

## I. TECHNICAL SPECIFICATIONS - CARACTÉRISTIQUES TECHNIQUES

Frequency	Call Sign	Class of Emission	Band Width	Power Supplied to the Antenna	Hours of Operation
4 365 kHz	RTH Tashkent	F3C	white +400 Hz, black -400 Hz	5 kW	0300-1500
14 982.5 kHz	RTH Tashkent	F3C	white +400 Hz, black -400 Hz	5 kW	H24
3 690 kHz	RTH Tashkent	F3C	white +400 Hz, black -400 Hz	5 kW	1500-0300
9 340 kHz	RTH Tashkent	F3C	white +400 Hz, black -400 Hz	5 kW	0300-1500
7 570 kHz	RTH Tashkent	F3C	white +400 Hz, black -400 Hz	5 kW	1500-0300

## II. MAP AREA - ZONE COUVERTE PAR LA CARTE

Area	Area Coverage	Projection	Scale
M	55°00'N-15°00'E, 55°00'N-105°00'E, 15°00'N-20°00'E, 15°00'N-105°00'W	Polar Stereographic	1: 15.000.000
P	44°55'N-30°21'E, 30°11'N-75°08'E, 27°35'N-41°16'E, 49°25'N-82°03'E	Polar Stereographic	1: 10.000.000
U	45°34'N-36°59'E, 42°54'N-127°30'E, 17°13'N-11°40'E, 16°04'N-80°08'E	Polar Stereographic	1: 24.000.000
V	48°25'N-53°34'E, 47°47'N-80°19'E, 35°38'N-56°35'E, 35°09'N-76°49'E	Polar Stereographic	
X	45°34'N-36°59'W, 43°05'N-127°28'E, 17°17'N-11°36'E, 16°10'N-80°01'E	Polar Stereographic	80°-65°N latitude – 1:37.000.000 65°-55°N latitude – 1:3500.000 55°-45°N latitude – 32.5000.000 45°-35°N latitude – 31.000.000

## III. CONTENTS OF BROADCAST SCHEDULES - CONTENU DES PROGRAMMES DE DIFFUSION

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
0005(12), 1230(00)	Forecast KWBC	X	90/576		
0155(00), 1350(12)	Circular chart (RTH Tashkent)	P	60/576		
0300(00), (1500(12)	Near surface analysis	U	60/576		
0345(00)	Analysis AT-700	U	90/576		

**UZBEKISTAN**

Transmission Time (Time Group) (UTC)	Details of Chart	Map Area	Drum Speed	TTAAii	CCCC
0430(00)	Analysis AT-500	U	90/576		
0500(03), 1440(12)	Nephanalysis	M	90/576		
0535(00)	Analysis AT-850	U	90/576		
0610(00)	Analysis AT-300	U	90/576		
0755(06), 1905(18)	Circular chart (RTH Tashkent)	P	60/576		
1005(00)	Analysis OT-500-1000	U	90/576		
1005(09), 2255(21)	Circular chart (RTH Tashkent)	P	60/576		
1245(00), 1300(00)	Forecast KWBC	X	90/576		
1315(00), 2350(12)	Forecast KWBC	X	90/576		
1655(15)	Circular chart (RTH Tashkent)	P	60/576		
1930(18)	Circular chart (RTH Tashkent)	P	60/576		

**Web Link:** --

## **CHAPTER 2**

### **SHIP-TO-SHORE SATELLITE COMMUNICATIONS**





# **PART A**

## **INMARSAT – C Land Earth Stations (LESs) accepting Short Access Code (SAC) 41 messages**

SAC 41 = Meteorological Reports

In the framework of the GMDSS, meteorological observations from ships – regarded as Maritime Safety Information – can be sent free of charge for the ships if sent via the Inmarsat satellite data telecommunication system using transmission code 41. The cost of transmission is paid by the meteorological service of the receiving country.



**Updated: 04/01/2019**

Satellite Ocean Region	SAC	Operator	Location	CCCC	Access Code	Costs Incurred	Country
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**AMER (Americas Ocean Region) replaces AORW (Atlantic Ocean Region West)**

AMER	41	Marlink	Southbury		004	NOAA	United States of America
AMER	41	Stratos	Station 12	EHDB	012	KNMI	Netherlands
AMER	41	Stratos Global	Burum (ex Goonhilly)	EGRR	002	Metoffice	United Kingdom of Great Britain and Northern Ireland

**AORE (Atlantic East Ocean Region)**

AORE	41	Airbus Astrium	Aussaguel	LFPW	121	Météo France	France
AORE	41	COMSAT	Southbury	KWBC	104	NOAA, USA	United States of America
AORE	41	OTESAT	Thermopylae	LGAT	120	HNMS	Greece
AORE	41	Stratos	Station 12	EHDB	112	KNMI	Netherlands
AORE	41	Stratos	Burum (ex Goonhilly)	EGRR	102	Metoffice	United Kingdom of Great Britain and Northern Ireland

Satellite Ocean Region	SAC	Operator	Location	CCCC	Access Code	Costs Incurred	Country
------------------------	-----	----------	----------	------	-------------	----------------	---------

**APAC (Asia/Pacific Ocean Region) replaces POR (Pacific Ocean Region)**

APAC	41	COMSAT	Santa Paula	KWBC	204	NOAA, USA	Norway
APAC	41	KDDI	Yamaguchi	RJTD	203	JMA	Japan
APAC	141	Singapore Telecom	Burum (ex Goonhilly)	WSSS	202	NEA	Singapore
APAC	1241	Stratos Global	Station 12	AMMC	212*	BOM	Australia

\* Ships previously reporting through Perth (renamed to Station 12) must use SAC 1241 when sending weather reports through POR/212 or IOR/312.

**Alphasat EMEA (Europe/Middle East Ocean Region) replaces IOR (Indian Ocean Region)**

EMEA	41	Airbus Astrium	Aussaguel	LFPW	321	Météo France	France
EMEA	41	COMSAT	Eik (Oslo)	KWBC	304	NOAA, USA	United States of America
EMEA	41	KDDI	Yamaguchi	RJTD	303	JMA	Japan
EMEA	41	OTESAT	Thermopylae	LGAT	305	HNMS	Greece
EMEA	141	Singapore Telecom	Burum (ex Goonhilly)	WSSS	302	NEA	Singapore
EMEA	1241	Stratos	Station 12	AMMC	312*	BOM	Australia
EMEA	41	Stratos	Station 12	EHDB	312	KNMI	Netherlands
EMEA	41	Tata Communications	Pune*	DEMS	306	IMD	India

\* Accepted if reported from within METAREA VIII(N) only

## **CHAPTER 3**

### **VISUAL STORM WARNING SIGNALS**



# Chapter 3 - VISUAL STORM WARNING SIGNALS

## 1. CONTENTS

As stipulated in the International Convention for the Safety of Life at Sea (Chapter V, Regulation 4 (b) (i)), Countries concerned should display at coastal points appropriate visual storm warning signals when applicable.

WMO Technical Regulations specifies that any Member establishing a new visual storm warning signal system should adopt the international system.

This part contains information on the systems of visual storm warning signals adopted by the various maritime countries. Where no such signals are used, a statement to this effect is given. The contents of this part are

based on official notifications from the countries concerned.

**Annex I** - International System of Visual Storm Warning Signals

**Annex II** - National Systems of Visual Storm Warning Signals (Day Signals)

**Annex III** - National Systems of Visual Storm Warning Signals (Night Signals)

## 2. LAYOUT















Each country is arranged in alphabetical order according to their English names.

















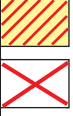











































## Annex I

# INTERNATIONAL SYSTEM OF VISUAL STORM WARNING SIGNALS

Day signals Signaux de jour	Description of wind force Description de la force du vent	Night signals Signaux de nuit	Remarks Remarques
	Near gale any direction. / Grand frais toute direction		This signal applies to wind force 7 Beaufort (28-33 kt) (see Note 3). / Ce signal s'applique au vent de force Beaufort 7 (28-33 noeuds) (voir la Note 3).
	Gale or storm commencing in the NW quadrant. / Coup de vent ou tempête commençant dans le quadrant NW.		This cone applies to winds of force 8 Beaufort (34-40 kt) or more (see Note 4). / Ce cône représente les vents de force Beaufort 8 (34-40 noeuds) ou au-delà (voir la Note 4).
	Gale or storm commencing in the SW quadrant. / Coup de vent ou tempête commençant dans le quadrant SW.		This cone applies to winds of force 8 Beaufort (34-40 kt) or more (see Note 4). / Ce cône représente les vents de force Beaufort 8 (34-40 noeuds) ou au-delà (voir la Note 4).
	Gale or storm commencing in the NE quadrant. / Coup de vent ou tempête commençant dans le quadrant NE.		This cone applies to winds of force 8 Beaufort (34-40 kt) or more (see Note 4). / Ce cône représente les vents de force Beaufort 8 (34-40 Noeuds) ou au-delà (voir la Note 4).
	Gale or storm commencing in the SE quadrant. / Coup de vent ou tempête commençant dans le quadrant SE.		This cone applies to winds of force 8 Beaufort (34-40 kt) or more (see Note 4). / Ce cône représente les vents de force Beaufort 8 (34-40 noeuds) ou au-delà (voir la Note 4).
	Wind expected to veer (clockwise change in direction). / Saute de vent (changement de direction dans le sens des aiguilles d'une montre)		Flags may be of any suitable colour. / Les pavillons peuvent être de toute couleur appropriée
	Wind expected to back (counter-clockwise change in direction). / Saute de vent (changement de direction dans le sens contraire des aiguilles d'une montre).		Flags may be of any suitable colour. / Les pavillons peuvent être de toute couleur
	Hurricane (or local synonym) with wind of force 12 Beaufort (64 kt and above) from any direction. / Ouragan (ou synonyme local) avec vent de force Beaufort 12 (64 noeuds et plus) dans toute direction.		








































## Annex II

### NATIONAL SYSTEMS OF VISUAL STORM WARNING SIGNALS (DAY SIGNALS)

1a 	9a 	17a 	25a 	33a 	41a 	49a 
2a 	10a 	18a 	26a 	34a 	42a 	50a 
3a 	11a 	19a 	27a 	35a 	43a 	51a 
4a 	12a 	20a 	28a 	36a 	44a 	52a 
5a 	13a 	21a 	29a 	37a 	45a 	53a 
6a 	14a 	22a 	30a 	38a 	46a 	54a 
7a 	15a 	23a 	31a 	39a 	47a 	55a 
8a 	16a 	24a 	32a 	40a 	48a 	56a 

# Annex III

## NATIONAL SYSTEMS OF VISUAL STORM WARNING SIGNALS (NIGHT SIGNALS)

						
1b	7b	13b	19b	25b	31b	37b
						
2b	8b	14b	20b	26b	32b	38b
						
3b	9b	15b	21b	27b	33b	39b
						
4b	10b	16b	22b	28b	34b	
						
5b	11b	17b	23b	29b	35b	
						
6b	12b	18b	24b	30b	36b	



Day Signals	Night Signals	Specifications
-------------	---------------	----------------

**ANGUILLA**

*Leeward Islands*

40a		Winds 34-63 kt.
41a		Red flare from "Very" pistol. Winds above 63 kt.
56a		Warning to small craft. Winds 28-33 kt.

**ANTIGUA AND BARBUDA**

*Leeward Islands*

40a		Signals used in Antigua. Tropical disturbance reported; likely to affect the island.
41a	7b	Signals used in Antigua.. Hurricane warning. Danger expected.
56a		Warning to small craft.

Day Signals	Night Signals	Specifications
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**AUSTRALIA**

12a	2b	Storm warning. Fremantle Signal Station.
12a	2b	Wind force. International numerical flag signals.
56a	56a(1)	Tropical cyclone. This signal is used in the State of Queensland and Western Australia. Information as to position, movement and development should be sought from appropriate authorities. Radio signals and broadcasts are widely used.

(1) Illuminated.

\* At present there is no national system of visual storm warning signals in general use in Australia.

The control of the various major shipping ports in Australia is vested in various State and Local Authorities, some of whom exhibit local signals.

Day Signals	Night Signals	Specifications
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## BANGLADESH

### *Signals meant for maritime ports*

10a	2b	<p>These signals indicate that ships may be exposed to danger after leaving the harbour.</p> <p>II. Distant Warning Signal Number Two.</p> <p>A storm has formed (cyclonic storm with surface winds 39-54 m.p.h. (34-47 knots)).</p>
16a	3b	<p>These signals indicate that ships may be exposed to danger after leaving the harbour.</p> <p>I. Distant Cautionary Signal Number One.</p> <p>There is a region of squally weather in which a storm may be forming (well marked low or depression with surface winds up to 38 m.p.h. (33 knots))</p>
17a	16b	<p>These signals indicate that the port itself and the ships in it are in danger.</p> <p>V. Danger Signal Number Five.</p> <p>The port will experience severe weather from a storm, of slight or moderate intensity, that is expected to cross the coast to the south of the port (to the east of the port in case of Chalna) (cyclonic storm with surface winds 39-54 m.p.h. (34-47 knots)).</p>
18a	17b	<p>These signals indicate that the port itself and the ships in it are in danger.</p> <p>VI. Danger Signal Number Six.</p> <p>The port will experience severe weather from a storm, of slight or moderate intensity, that is expected to cross the coast to the north of the port (to the west of the port in case of Chalna) (wind speed same as in Signal No. V).</p>
19a	18b	<p>These signals indicate that the port itself and the ships in it are in danger.</p> <p>VII. Danger Signal Number Seven.</p> <p>The port will experience severe weather from a storm, of slight or moderate intensity, that is expected to cross over or near to the port (wind speed same as in Signal No. V)</p>

Day Signals	Night Signals	Specifications
-------------	---------------	----------------

**BANGLADESH**

20a	19b	<p>These signals indicate that the port itself and the ships in it are in danger.</p> <p>VIII. Great Danger Signal Number Eight.</p> <p>The port will experience severe weather from a storm, of great intensity, that is expected to cross the coast to the south of the port (to the east of the port in case of Chalna) (severe cyclonic storm with surface winds 55-73 m.p.h. (46-63 knots) or severe cyclonic storm of hurricane intensity with winds 74 m.p.h. (64 knots) or above).</p> <p>These signals indicate that the port itself and the ships in it are in danger.</p>
21a	20b	<p>These signals indicate that the port itself and the ships in it are in danger.</p> <p>IX. Great Danger Signal Number Nine.</p> <p>The port will experience severe weather from a storm, of great intensity, that is expected to cross the coast to the north of the port (to the west of the port in case of Chalna) (wind speed same as in Signal No. VIII).</p>
22a	21b	<p>These signals indicate that the port itself and the ships in it are in danger.</p> <p>X. Great Danger Signal Number Ten.</p> <p>The port will experience severe weather from a storm, of great intensity, that is expected to cross the coast over or near to the port (wind speed same as in Signal No. VIII).</p>
23a	7b	<p>These signals indicate that the port itself and the ships in it are in danger.</p> <p>Communications with the Meteorological Warning Centre have broken down, and the local officer considers that there is danger of bad weather.</p>
2a	4b	<p>These signals indicate that the port itself and the ships in it are in danger.</p> <p>IV. Local Warning Signal Number Four.</p> <p>The port is threatened by a storm, but it does not appear that the danger is as yet sufficiently great to justify extreme measures of precaution (cyclonic circulation with surface winds 32-38 m.p.h. (28-33 knots))</p>



Day Signals	Night Signals	Specifications
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**BANGLADESH**

3a	5b	<p>These signals indicate that the port itself and the ships in it are in danger.</p> <p>III. Local Cautionary Signal Number Three.</p> <p>The port is threatened by squally weather (cyclonic circulation with surface winds 25-31 m.p.h. (22-27 knots)) or squalls due to Nor'Westers).</p>
----	----	---

*These signals are used for river ports, river and police stations in Bangladesh.*

10a	31b	<p>IV. Great Danger Signal Number Four.</p> <p>A violent storm (of whole gale force and above, associated sustained wind speed exceeding 54 m.p.h. (47 knots)) will soon strike you). All vessels continue taking shelter immediately</p>
-----	-----	---

1a	7b	<p>II. Warning Signal Number Two.</p> <p>A storm 1 (of depression intensity, associated sustained winds not more than 38 m.p.h. (33 knots) or Nor'Wester squall (of wind speed exceeding 40 m.p.h. (35 knots) is likely to strike you (vessels of 65 feet and under in length are to seek shelter immediately).</p>
----	----	---

24a	5b	<p>I. Cautionary Signal Number One.</p> <p>Your area is threatened by squally winds of a transient nature (Nor'Wester squall of wind speed not exceeding 40 m.p.h. (35 knots). Look out for further development.</p>
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2a	2b	<p>III. Danger Signal Number Three.</p> <p>A storm (of gale force associated sustained winds 39-54 m.p.h. (34-47 knots)) will soon strike you. All vessels are to seek shelter immediately.</p>
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Day Signals	Night Signals	Specifications
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**BARBADOS**

41a	2b
45a	15b

Hurricane conditions are expected within 24 hours.

The island is out of danger.  
The green flag of the day signal has a white diagonal stripe.

**BELIZE**

40a	
41a	
43a	
45a	

A tropical or hurricane moves into or develops anywhere in the quadrant south of 20°N latitude and between longitudes 83°W and 85°W.

A tropical storm or hurricane moves into or develops anywhere in the quadrant south of 20°N latitude and west of 85°W longitude.

- (i) A tropical depression moves into or develops anywhere in the quadrant south of 21°N latitude and west of 80°W longitude, OR
- (ii) A tropical storm or hurricane moves into or develops anywhere in the quadrant south of 21°N latitude and between longitudes 80°W and 83°W

The tropical depression, tropical storm or hurricane has passed or no longer poses a threat to Belize and coastal waters.

Day Signals	Night Signals	Specifications
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**CHILE**

1a	7b	For storm, higher than Beaufort 8 Force winds.
46a		The traffic of small craft is suspended in the bay on account of bad weather.
47a		The traffic, loading and unloading of cargo are totally suspended; lighters and tugs should make fast.
48a	15b	Variable
9a	2b	Storm

Note:

(a) These signals correspond to the current synoptic chart.

(b) The "Bad weather" signal should be interpreted as a forecast of N'ly winds of force 4 to 7 which hinder shipping movements in the bay: this situation is already considered threatening and, accordingly, the appropriate precautionary measures should be taken.

Day Signals	Night Signals	Specifications
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**EGYPT**

15a	
2a	
3a	
4a	
50a	30b
5a	

Hurricane.

Gale commencing with wind in the NW quadrant.

Gale commencing with wind in the SW quadrant.

Gale commencing with wind in the NE quadrant.

Too much sea, pilot cannot go out.

Gale commencing with wind in the SE quadrant.

**FIJI**

35a	
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Storm/hurricane alert.

A tropical cyclone of storm or hurricane intensity exists and may affect the locality within 24 or 36 hours.

Day Signals	Night Signals	Specifications
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**GHANA**

9a

2b

Squally weather from a line-squall or thunderstorms of slight to moderate intensity are expected to affect the locality accompanied by North-East to Easterly winds. Accordingly, appropriate precautionary measures should be taken.  
 Displays are made at signal stations on prominent buildings on the coast at Tema (05°37'N, 00°00') and Takoradi (04°45'N, 01°45'W) whenever a storm becomes a threat in the coastal sea area on the landward boundary.

Note:

The Offices of the Harbour Master, Harbour Authority which operate the system are kept informed by radio or land-line telephone by the National Meteorological Services Department (Weather Forecasting and warning Services Division) when the situation is considered threatening and is likely to affect ship movements in the harbours.

**GIBRALTAR**

2a

38b

A gale or strong wind from eastward is probable.

3a

39b

A gale or strong wind from westward is probable.

Day Signals	Night Signals	Specifications
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**GRENADA**

*Windward Islands*

40a		Winds 34-63 kt
41a	2b	Winds above 63 kt.
56a		Winds 28-33 kt

**HONG KONG, CHINA**

23a	9b	Gale or storm force winds are increasing or expected to increase significantly in strength. Signal No. 9 - Tropical cyclone warning signal.
2a	24b	Gale or storm force winds are expected or blowing in Victoria Harbour, with a sustained wind speed of 63-117 kilometers per hour from the NW quadrant . Gusts may exceed 180 kilometers per hour. Signal No. 8 NW - Tropical cyclone warning signal.
5a	27b	Gale or storm force winds are expected or blowing in Victoria Harbour, with a sustained wind speed of 63-117 kilometers per hour from the SE quadrant . Gusts which may exceed 180 kilometers per hour. Signal No. 8 SE - Tropical cyclone warning signal.

Day Signals	Night Signals	Specifications
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## INDIA

10a	2b	These signals indicate that ships may be exposed to danger after leaving the harbour. A storm has formed.
10a		These signals are used for Ganges Delta ports and river and police stations in West Bengal. GREAT DANGER. A violent storm will soon strike you
16a	3b	These signals indicate that ships may be exposed to danger after leaving the harbour. There is a region of squally weather in which a storm may be forming.
17a	16b	These signals indicate that the port itself and the ships in it are in danger. Port will experience severe weather from a cyclone expected to move keeping the port to the left of its track.
18a	17b	These signals indicate that the port itself and the ships in it are in danger. Port will experience severe weather from a cyclone expected to move keeping the port to the right of its track.
19a*	18b	This signal is also hoisted when a storm is expected to skirt the coast without (actually) crossing it. Port will experience severe weather from a cyclone expected to move over or close to the port.
1a	7b	These signals are used for Ganges Delta ports and river and police stations in West Bengal. WARNING. A storm may affect you shortly.
20a	19b	This signal indicates that the port itself and the ships in it are in danger. Port will experience severe weather from a severe cyclone expected to move keeping the port to the left of its track.

Day Signals	Night Signals	Specifications
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**INDIA**

21a	20b	This signal indicates that the port itself and the ships in it are in danger. Port will experience severe weather from a severe cyclone expected to move keeping the port to the right of its track.
22a*	21b	This signal is also hoisted when a storm is expected to skirt the coast without (actually) crossing it. Port will experience severe weather from a severe cyclone expected to move over or close to the port.
23a*	7b	These signals are used for Ganges Delta ports and river and police stations in West Bengal. Communications with the Meteorological Warning Centre have broken down, and the local officer considers there is a danger of bad weather.
2a	2b	These signals are used for Ganges Delta ports and river and police stations in West Bengal. DANGER. A storm will soon strike you.
2a*	4b	Port is threatened by a storm, but it does not appear that danger justifies extreme measures of precaution. Squally weather is meant to cover occasional or frequent squalls with rain or persistent type of strong gusty wind (mean wind speed not less than 20 knots) accompanied by rain. Such conditions are associated with low pressure systems or onset and strengthening of monsoon. Mean wind speeds exceeding 33 knots associated with cyclonic storms are generally covered by signals higher than 3a.
3a*	5b	Port is threatened by squally weather. Squally weather is meant to cover occasional or frequent squalls with rain or persistent type of strong gusty wind (mean wind speed not less than 20 knots) accompanied by rain. Such conditions are associated with low pressure systems or onset and strengthening of monsoon. Mean wind speeds exceeding 33 knots associated with cyclonic storms are generally covered by signals higher than 3a.



Day Signals	Night Signals	Specifications
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**INDIA**

\* BRIEF SYSTEM: In the brief system only one of the five signals marked by an asterisk of the general system is hoisted, and the Port Officers are kept informed of the prospects of local bad weather associated with any disturbance in the sea, for the general information of shipping.

EXTENDED SYSTEM: Special signals, in addition to those of the general system, are exhibited at certain ports in the bay of Bengal belonging to the extended system. If the port itself is threatened, the appropriate local signals of the general system are hoisted. But, if there is an area of squally weather or a storm that does not threaten the port, the distant cautionary or distant warning signal of the general system is hoisted under the distant signals, to indicate the position of the disturbance in the Bay. The following shapes, when hung below a distant cautionary or warning signal, become locality signals, indicating the six divisions into which the bay of Bengal has been divided for this purpose.

Signal: 3a 10a 24a 16a 2a 23a

Section: I II III IV V VI

Thus, if there is squally weather in Section IV of the Bay, the signal 25a would be hoisted at the various ports; and if a storm has formed in Section II, the signal 11a would be hoisted at all ports which were not directly threatened. As already stated, the ports directly threatened would hoist either one of the local signals. The Meteorological Department endeavours to keep the number of locality signals on each hoist as small as possible, and generally the number of only that section in which the centre of the storm is situated is given in the Warning Telegram.

Examples:

Storm centre	Locality signals
Latitude 16°N - Longitude 86°E	II
Latitude 16°N - Longitude 88°E	II & III
Latitude 16°N - Longitude 89°E	III & II
Latitude 18°N - Longitude 87°30'E	II, I & III
Latitude 19°N - Longitude 89°30'E	I, III & II

If however, the center of the storm is near the boundary of a division, the hoisting of two locality signals is requested, the first indicating the division in which the center is thought to be situated and the second the division nearest to the first. In the event of a storm center being near the corner where three divisions meet, the hoisting of three locality signals is requested, the first indicating the division in which the storm is estimated to be centered, the second the nearest adjoining division, and the third the remaining division.

(1) Radio warnings largely used.

Day Signals	Night Signals	Specifications
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**ISRAEL**

*See International Visual Storm Warning Signals.*

1a-5a	1b-5b	These signals are in use
8a	6b	These signals are not used

(1) Gale will usually develop within 10 hours of the time of hoisting the signal. Signal is lowered when gale has passed and a period of not less than 12 hours free from gales is expected. Visual storm warning signals are displayed in Haifa Port.

**ITALY**

15a	7b	Phenomenon arriving from all directions
2a	2b	Phenomenon arriving from NW quadrant
3a	3b	Phenomenon arriving from SW quadrant
4a	4b	Phenomenon arriving from NE quadrant
5a	5b	Phenomenon arriving from SE quadrant

Day Signals	Night Signals	Specifications
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**JAMAICA**

39a	2b	Gale warnings: winds within the range 34-47 knots.
40a	2b	Whole gale warning: winds within the range 48-63 knots.
41a	31b	Hurricane warnings: winds above 63 knots.
56a		Small craft warning: winds and seas or sea conditions are only dangerous to small craft operations. Winds range from 25-34 knots.

Day Signals	Night Signals	Specifications
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**JAPAN**

	2b	Wind of force 8-11 Beaufort from the NW quadrant.
	5b	Wind of force 8-11 Beaufort from the SE quadrant.
16a		Wind will veer.
1a		Wind of force 6-7 Beaufort.
24a	32b	Wind of force 8-11 Beaufort
25a		Wind will back.
2a		NW quadrant wind.
3a		SW quadrant wind.
4a		NE quadrant wind.

Day Signals	Night Signals	Specifications
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**JAPAN**

5a		SE quadrant wind.
8a	7b	Wind of force 12 Beaufort and upwards.

**MALAYSIA**

		For national coastal waters, visual strong wind and rough sea warnings at Kuala Trengganu and Tumpat. Notice board display of information on strong wind and rough sea at Mersing and various fisheries departments in Pahang.
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Day Signals	Night Signals	Specifications
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**MALTA**

1a	15b	<p>Scend Warnings. Such a warning indicates that a wind of force 5 or more, between 10° and 120°, is expected in all parts of the Harbour (Valletta). A scend warning signal is also to be used after a gregale warning has been cancelled until such time as the sea has fallen below 5 feet.</p>
2a	3 green lights in a cone pointed up	<p>Gale or strong winds. North Cone: Indicates gales or strong winds of force 8 expected from between West and East through North.</p>
3 black cones pointed up	9b	<p>Strong Gregale. Indicated risks of winds between North and East of force 8 or over.</p>
3a	3 green lights in a cone pointed down	<p>South Cone: Indicates gales or strong winds of force 8 expected from between East and West through South. Gale or strong winds.</p>
4a	2 green lights vertically displayed	<p>Moderate Gregale Indicates risks of winds between North and East of force 5 to 7.</p>

Day Signals	Night Signals	Specifications
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**MOZAMBIQUE**

10a	15b	Cyclone in the Mozambique Channel.
15a	14b	Probability of gale, storm or cyclone.
1a	7b	Gale or storm from undetermined direction.
2a	2b	Gale or storm from the NW quadrant.
3a	11b	Gale or storm from the SW quadrant.
4a	12b	Gale or storm from the NE quadrant.
5a	13b	Gale or storm from the SE quadrant.
6a		International specification.
7a		International specification.

Day Signals	Night Signals	Specifications
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## MYANMAR

10a*	2b	A storm has formed. Distant warning signal.
16a*	3b	There is a region of squally weather in which a storm may be forming. Distant cautionary signal.
17a	16b	The port will experience severe weather from a storm, of slight or moderate intensity, that is expected to cross the coast to the south of the port (or to the east in the case of Yangon, Bassein and Diamond Island). Local danger signal.
18a	17b	The port will experience severe weather from a storm, of slight or moderate intensity, that is expected to cross the coast to the north of the port (or to the west in the case of Yangon and Moulmein). Local danger signal.
19a*	18b*	The port will experience severe weather from a storm, of slight or moderate intensity, that is expected to cross over or near to the port. Local danger signal.
20a	19b	The port will experience severe weather from a storm, of great intensity, that is expected to cross the coast to the south of the port (or to the east in the case of Yangon, Bassein and Diamond Island). Local great danger signal.
21a	20b	The port will experience severe weather from a storm, of great intensity, that is expected to cross the coast to the north of the port (or to the west in the case of Yangon and Moulmein). Local great danger signal.



Day Signals	Night Signals	Specifications
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**MYANMAR**

22a*	21b*	The port will experience severe weather from a storm, of great intensity, that expected to cross over or near to the port. Local great danger signal.
23a*	7b*	Communications with the Meteorological Warning Centre have broken down, and the local officer considers that there is danger of bad weather. Local failure of communications signal.
2a*	4b*	The port is threatened by a storm, but it does not appear that the danger is as yet sufficiently great to justify extreme measures of precaution. Local warning signal. The existence of a storm can often be determined before its direction of motion can be fixed. In this case all those ports which the storm could possibly strike are warned by this signal.
3a*	5b*	The port is threatened by squally weather. Local cautionary signal.

Day Signals	Night Signals	Specifications
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## MYANMAR

\* BRIEF SYSTEM: In the brief system only one of the five signals marked by an asterisk of the general system is hoisted, and the Port Officers are kept informed of the prospects of local bad weather associated with any disturbance in the sea, for the general information of shipping.

EXTENDED SYSTEM: Special signals, in addition to those of the general system, are exhibited at certain ports in the bay of Bengal belonging to the extended system. If the port itself is threatened, the appropriate local signals of the general system are hoisted. But, if there is an area of squally weather or a storm that does not threaten the port, the distant cautionary or distant warning signal of the general system is hoisted under the distant signals, to indicate the position of the disturbance in the Bay. The following shapes, when hung below a distant cautionary or warning signal, become locality signals, indicating the six divisions into which the bay of Bengal has been divided for this purpose.

Signal: 3a 10a 24a 16a 2a 23a

Section: I II III IV V VI

Thus, if there is squally weather in Section IV of the Bay, the signal 25a would be hoisted at the various ports; and if a storm has formed in Section II, the signal 11a would be hoisted at all ports which were not directly threatened. As already stated, the ports directly threatened would hoist either one of the local signals. The Meteorological Department endeavours to keep the number of locality signals on each hoist as small as possible, and generally the number of only that section in which the centre of the storm is situated is given in the Warning Telegram.

Examples:

Storm centre	Locality signals
Latitude 16°N - Longitude 86°E	II
Latitude 16°N - Longitude 88°E	II & III
Latitude 16°N - Longitude 89°E	III & II
Latitude 18°N - Longitude 87°30'E	II, I & III
Latitude 19°N - Longitude 89°30'E	I, III & II

If however, the center of the storm is near the boundary of a division, the hoisting of two locality signals is requested, the first indicating the division in which the center is thought to be situated and the second the division nearest to the first. In the event of a storm center being near the corner where three divisions meet, the hoisting of three locality signals is requested, the first indicating the division in which the storm is estimated to be centered, the second the nearest adjoining division, and the third the remaining division.

Day Signals	Night Signals	Specifications
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**NETHERLANDS**

	5b	These signals apply to winds of force 8 Beaufort or more. International specification.
	1b	These signals apply to winds of force 7 Beaufort. Strong wind (28-33 kt) any direction.
	2b	These signals apply to winds of force 8 Beaufort or more. International specification.
	3b	These signals apply to winds of force 8 Beaufort or more. International specification.
	4b	These signals apply to winds of force 8 Beaufort or more. International specification.

**Note:**

Night signals are displayed at Flushing, Hook of Holland, Ymuiden, Del Helder and Terschelling. Day signals are not displayed.

Day Signals	Night Signals	Specifications
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## NETHERLANDS ANTILLES

### *Leeward Islands*

39a		These signals are used in the islands: St. Maarten, Saba and St. Eustatius (parts of the Netherlands Antilles). Gale warning: winds within the range 39-54 miles an hour (34-47 kt).
40a		These signals are used in the islands: St. Maarten, Saba and St. Eustatius (parts of the Netherlands Antilles). Whole gale warning: winds within the range 55 to 73 miles an hour (48 to 63 kt).
40a		This signal is the only one used in Curaçao, Aruba and Bonaire. Gale warning: winds 39 miles an hour (34 kt) and upwards.
41a		These signals are used in the islands: St. Maarten, Saba and St. Eustatius (parts of the Netherlands Antilles). Hurricane warning: winds 74 miles an hour (64 kt) and upwards.
56a		These signals are used in the islands: St. Maarten, Saba and St. Eustatius (parts of the Netherlands Antilles). Small craft warning: winds and seas or sea conditions are only dangerous to small craft operations. Winds range up to 38 miles an hour (33 kt).

Day Signals	Night Signals	Specifications
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**NORWAY**

1a	7b	Gale or storm without indication of direction.
2a	2b	This signal applies to winds of force 7-8 Beaufort. Gale (wind 28-40 kt) commencing in the NW quadrant.
30a	35b	This signal applies to winds of force 9-12 Beaufort. Storm (wind 41-71 kt) commencing in the NW quadrant.
31a	27b	This signal applies to winds of force 9-12 Beaufort. Storm (wind 41-71 kt) commencing in the SW quadrant.
32a	36b	Storm (wind 41-71 kt) commencing in the NE quadrant. This signal applies to winds of force 9-12 Beaufort.
33a	37b	Storm (wind 41-71 kt) commencing in the SE quadrant. This signal applies to winds of force 9-12 Beaufort.
3a	3b	This signal applies to winds of force 7-8 Beaufort. Gale (wind 28-40 kt) commencing in the SW quadrant.
4a	4b	This signal applies to winds of force 7-8 Beaufort. Gale (wind 28-40 kt) commencing in the NE quadrant.
5a	5b	This signal applies to winds of force 7-8 Beaufort. Gale (wind 28-40 kt) commencing in the SE quadrant.

Day Signals	Night Signals	Specifications
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**PAKISTAN**

10a	2b	A storm has formed. Indicate that ship may be exposed to danger after leaving harbour.
16a	3b	Region of squally weather where storm may be forming. Indicate that ship may be exposed to danger after leaving harbour.
17a	16b	Severe weather from a storm, of moderate intensity, expected to cross the coast to south or east of port. Indicates that the port itself and the ships in it are in danger.
18a	17b	Indicates that the port itself and the ships in it are in danger. Severe weather from a storm, of slight or moderate intensity, expected to cross the coast to north or west of port.
19a	18b	Indicates that the port itself and the ships in it are in danger. Severe weather from a storm, of slight or moderate intensity, expected to cross over or near to the port.
20a	19b	Indicates that the port itself and the ships in it are in danger. Severe weather from a storm, of great intensity, expected to cross the coast to south or east of port.
21a	20b	Indicates that the port itself and the ships in it are in danger. Severe weather from a storm, of great intensity, expected to cross the coast to north or west of port.
22a	21b	Severe weather from a storm, of great intensity, expected to cross over or near to the port. Indicates that the port itself and the ships in it are in danger.

Day Signals	Night Signals	Specifications
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**PAKISTAN**

23a	7b	Indicates that the port itself and the ships in it are in danger. Communications with the Meteorological Warning Centre have broken down, and the local officer considers there is danger of bad weather.
2a	4b	Port is threatened by storm, but it does not appear that danger justifies extreme measures of precaution. Indicates that the port itself and the ships in it are in danger.
3a	5b	Port is threatened by squally weather. Port itself and the ships in it are in danger.

\* Radio warnings largely used.

Day Signals	Night Signals	Specifications
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## PORTUGAL

10a	15b	Special signal used on the southern coast of Portugal to the Levant in the Strait of Gibraltar. Wind Waves from Southeast 2 metres or more.
1a	1b	This signal applies to wind force 7 Beaufort (28-33 kt). Near gale any direction.
2a	2b	Gale and storm commencing in the NW quadrant. This cone applies to winds of force 8 Beaufort (34-40 kt) or more.
3a	3b	Gale and storm commencing in the SW quadrant. This cone applies to winds of force 8 Beaufort (34-40 kt) or more.
4a	4b	Gale and storm commencing in the NE quadrant. This cone applies to winds of force 8 Beaufort (34-40 kt) or more.
5a	5b	Gale and storm commencing in the SE quadrant. This cone applies to winds of force 8 Beaufort (34-40 kt) or more.
6a	6b	Wind expected to veer (clockwise change in direction)
7a		Wind expected to back (counter-clockwise change in direction)
8a	6b	Hurricane with wind of force 12 Beaufort (64 kt and above) from any direction



Day Signals	Night Signals	Specifications
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**PORTUGAL (AZORES)**

15a	8b
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Hurricane

**PUERTO RICO**

39a	5b
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Gale warning: winds within the range 39 to 54 miles an hour (34 to 47 kt).

40a	2b
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Storm warning: wind 55 miles an hour (48 kt) and upwards, except that when winds are associated with a tropical cyclone, HURRICANE warnings will be hoisted for winds 74 miles an hour (64 kt) and upwards. (See "Hurricane warning" below).

41a	21b
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Hurricane warning: winds 74 miles an hour (64 kt) and upwards when in connection with a tropical cyclone.

56a	4b
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Small Craft Advisory: weather or sea conditions (either present or forecast), sustained for more two hours, that might be hazardous to small boats. Mariners learning of a Small Craft Advisory are urged to determine immediately the reason by tuning their radios to the latest marine broadcasts. Decision as to the degree of hazard will be left up to the boatmen, based on his experience and size and type of boat. The threshold conditions for the Small Craft Advisory are usually 18 knots of wind (less than 18 knots in some dangerous waters) or hazardous wave conditions.

Day Signals	Night Signals	Specifications
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**PUERTO RICO**

Notes:

1. Displays are made from about 200 points along the sea coasts, the Great Lakes, Hawaii and Puerto Rico. No displays are made in Alaska but warnings are broadcast by radio.
2. Hurricane watch: an announcement made to the public and all other interests by press and radio and television broadcasts whenever a tropical storm or hurricane becomes a threat to a coastal area. The "Hurricane watch" announcement is not a warning; it indicates that the hurricane is near enough that everyone in the area covered by the "watch" should listen for subsequent advisories and be ready to take precautionary action in case hurricane warnings are issued. No display is provided for the "Hurricane watch".

**SAINT KITTS AND NEVIS**

*Leeward Islands*

40a		Winds 34-63 kt.
41a		Red flare from "Very" pistol. Winds above 63 kt.
56a		Warnings to small craft. Winds 28-33 kt.

Day Signals	Night Signals	Specifications
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**SAINT LUCIA**

*Windward Islands*

39a	5b	Winds 34-48 kt
40a	2b	Winds 49-63 kt
41a	21b	Winds above 63 kt.
56a	4b	Winds 28-33 kt

**SAINT VINCENT AND THE GRENADINES**

*Windward Islands*

40a		A cautionary warning: possibility of storm or hurricane affecting island.
41a		Definite warning: hurricane will affect island.

Day Signals	Night Signals	Specifications
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**SAMOA**

14a		Storm/hurricane alert. A tropical cyclone of storm or hurricane intensity exists and may affect the locality within 18 or 24 hours.
35a		Storm/hurricane alert. A tropical cyclone of storm or hurricane intensity exists and may affect the locality within 24 or 36 hours.

**SOUTH AFRICA**

2a		Gale winds from NW. Cones are used in daytime in accordance with International System, at Cape Town, Port Elizabeth and Mossel Bay.
3a		Gale winds from SW. Cones are used in daytime in accordance with International System, at Cape Town, Port Elizabeth and Mossel Bay.
4a		Gale winds from NE. Cones are used in daytime in accordance with International System, at Cape Town, Port Elizabeth and Mossel Bay.
5a		Gale winds from SE. Cones are used in daytime in accordance with International System, at Cape Town, Port Elizabeth and Mossel Bay.

Day Signals	Night Signals	Specifications
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**SRI LANKA**

53a	
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Hoisted at the Colombo Pilot Station.

**THAILAND**

35a	
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Tropical depression or storm with wind speeds near center not exceeding 33 kt.

36a	
-----	--

Tropical storm or storm with wind speeds near center from 34 kt and over but not exceeding 63 kt.

37a	
-----	--

Signals indicating the locality of storms.  
Area 1: Gulf of Thailand east coast to Lat. 5°N and Long. 105°E.

38a	
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Signals indicating the locality of storms.  
Area 2: Gulf of Thailand west coast to Lat. 5°N.

43a	
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Signals indicating the locality of storms.  
Area 3: Andaman Sea bounded by west coast of southern Myanmar, west coast of southern Thailand. Long. 97°E, Lat. 5°N and Lat. 14°N.

51a	
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Signals indicating the locality of storms.  
Area 4: South China Sea bounded by southern Viet Nam coast, Lat. 12°N, Lat. 5°N, Long. 105°E and Long. 112°E.

56a	
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Typhoon or cyclone or storm with wind speeds near center 64 kt and upwards.

Day Signals	Night Signals	Specifications
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**THAILAND**

Note:

1. Signals indicating the occurrence of storms in the Gulf of Thailand and adjacent seas to be displayed at:
    - Port Area (Bangkok)
    - Bangkok Harbour Limit I (Pong Pachjarnit Port, Pagklongsarn, Dhonburi)
  2. Signals indicating the intensity and locality of storms will be hoisted on the same yard-arm with the pennant indicating the intensity and the flag indicating the locality of the storm. The flag is always hoisted below the pennant.
- At normal weather conditions (no tropical depression of storm or typhoon) the white pennant with red circle (52a) will be displayed at the upper yard-arm at Bangkok Harbour Limit I (Pong Pachjarnit Port, Pagklongsarn, Dhonburi).
- \* Signals indicating the intensity of storms.

**TOGO**



See International Visual Storm Warning Signals.

**TRINIDAD AND TOBAGO**



Used at all officially designated ports in Trinidad and Tobago.  
See International Signal for hurricane warning.

**TURKS AND CAICOS ISLANDS**



A tropical storm or hurricane is expected to strike within twelve hours.

Day Signals	Night Signals	Specifications
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**UNITED STATES OF AMERICA**

39a	5b	<p>Gale warning: winds within the range 39 to 54 miles an hour (34 to 47 kt).</p> <ol style="list-style-type: none"> <li>1. Displays are made from about 200 points along the sea coasts, the Great Lakes, Hawaii and Puerto Rico. No displays are made in Alaska but warnings are broadcast by radio.</li> <li>2. Hurricane watch: an announcement made to the public and all other interests by press and radio and television broadcasts whenever a tropical storm or hurricane becomes a threat to a coastal area. The "Hurricane watch" announcement is not a warning; it indicates that the hurricane is near enough that everyone in the area covered by the "watch" should listen for subsequent advisories and be ready to take precautionary action in case hurricane warnings are issued. No display is provided for the "Hurricane watch".</li> </ol>
40a	2b	<p>Storm warning: wind 55 miles an hour (48 kt) and upwards, except that when winds are associated with a tropical cyclone, HURRICANE warnings will be hoisted for winds 74 miles an hour (64 kt) and upwards. (See "Hurricane warning" below).</p> <ol style="list-style-type: none"> <li>1. Displays are made from about 200 points along the sea coasts, the Great Lakes, Hawaii and Puerto Rico. No displays are made in Alaska but warnings are broadcast by radio.</li> <li>2. Hurricane watch: an announcement made to the public and all other interests by press and radio and television broadcasts whenever a tropical storm or hurricane becomes a threat to a coastal area. The "Hurricane watch" announcement is not a warning; it indicates that the hurricane is near enough that everyone in the area covered by the "watch" should listen for subsequent advisories and be ready to take precautionary action in case hurricane warnings are issued. No display is provided for the "Hurricane watch".</li> </ol>
41a	21b	<p>Hurricane warning: winds 74 miles an hour (64 kt) and upwards when in connection with a tropical cyclone.</p> <ol style="list-style-type: none"> <li>1. Displays are made from about 200 points along the sea coasts, the Great Lakes, Hawaii and Puerto Rico. No displays are made in Alaska but warnings are broadcast by radio.</li> <li>2. Hurricane watch: an announcement made to the public and all other interests by press and radio and television broadcasts whenever a tropical storm or hurricane becomes a threat to a coastal area. The "Hurricane watch" announcement is not a warning; it indicates that the hurricane is near enough that everyone in the area covered by the "watch" should listen for subsequent advisories and be ready to take precautionary action in case hurricane warnings are issued. No display is provided for the "Hurricane watch".</li> </ol>

Day Signals	Night Signals	Specifications
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**UNITED STATES OF AMERICA**

56a

4b

Small Craft Advisory: weather or sea conditions (either present or forecast), sustained for more two hours, that might be hazardous to small boats. Mariners learning of a Small Craft Advisory are urged to determine immediately the reason by tuning their radios to the latest marine broadcasts. Decision as to the degree of hazard will be left up to the boatmen, based on his experience and size and type of boat. The threshold conditions for the Small Craft Advisory are usually 18 knots of wind (less than 18 knots in some dangerous waters) or hazardous wave conditions.

**UNITED STATES OF AMERICA (HAWAII)**

39a

5b

Gale warning: winds within the range 39 to 54 miles an hour (34 to 47 kt).

40a

2b

Storm warning: wind 55 miles an hour (48 kt) and upwards, except that when winds are associated with a tropical cyclone.  
HURRICANE warnings will be hoisted for winds 74 miles an hour (64 kt) and upwards. (See "Hurricane warning" below)

41a

21b

Hurricane warning: winds 74 miles an hour (64 kt) and upwards when in connection with a tropical cyclone

56a

4b

Small Craft Advisory: weather or sea conditions (either present or forecast), sustained for more two hours, that might be hazardous to small boats. Mariners learning of a Small Craft Advisory are urged to determine immediately the reason by tuning their radios to the latest marine broadcasts. Decision as to the degree of hazard will be left up to the boatmen, based on his experience and size and type of boat. The threshold conditions for the Small Craft Advisory are usually 18 knots of wind (less than 18 knots in some dangerous waters) or hazardous wave conditions.



Day Signals	Night Signals	Specifications
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**UNITED STATES OF AMERICA (HAWAII)**

Notes:

1. Displays are made from about 200 points along the sea coasts, the Great Lakes, Hawaii and Puerto Rico. No displays are made in Alaska but warnings are broadcast by radio.
2. Hurricane watch: an announcement made to the public and all other interests by press and radio and television broadcasts whenever a tropical storm or hurricane becomes a threat to a coastal area. The "Hurricane watch" announcement is not a warning; it indicates that the hurricane is near enough that everyone in the area covered by the "watch" should listen for subsequent advisories and be ready to take precautionary action in case hurricane warnings are issued. No display is provided for the "Hurricane watch".



## **CHAPTER 4**

### **FOCAL POINT CONTACT INFORMATION**



# **PART A**

**METAREA Coordinators**

**WMO Worldwide Met-Ocean Information and Warning Service**



# METAREA COORDINATOR CONTACTS FOR WMO WORLDWIDE MET-OCEAN INFORMATION AND WARNING SERVICE

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## Metarea I

**UNITED KINGDOM** 20/03/2017

Mr Nick ASHTON  
Key Account Manager  
Met Office  
127 Clerkenwell Road  
London - EC1R 5LP  
United Kingdom

**Telephone:** +44 1392 885402

**Telefax:** +44 20 7204 7479

**Email:** [nick.ashton@metoffice.gov.uk](mailto:nick.ashton@metoffice.gov.uk)

## Metarea II

**FRANCE** 20/03/2017

Ms. Mireille MAYOKA  
Météo-France  
Direction des Opérations pour la Prévision  
Prévision Marine et Océanographique  
42, avenue Gaspard Coriolis  
31057 Toulouse Cedex  
France

**Telephone:** +33 5 61 07 82 91

**Telefax:** +33 5 61 07 82 09

**Email:** [mireille.mayoka@meteo.fr](mailto:mireille.mayoka@meteo.fr)

## Metarea III

**GREECE** 20/03/2017

Mr Michail MYRSILIDIS  
Head of Marine Section  
Marine Section  
Hellenic National Meteorological Service  
14, El. Venizelou St.  
Hellnikon Airport  
GR-167 77 ATHENS  
Greece

**Telephone:** +30 210 9699013

**Telefax:** +30 210 9628952

**Email:** [michail.myrsilidis@emy.gr](mailto:michail.myrsilidis@emy.gr)

## Metarea IV

**UNITED STATES OF AMERICA** 20/03/2017

Mr Wayne PRESNELL  
Marine and Coastal Weather Services  
National Weather Service/National Oceanic Atmospheric  
Administration  
1325 East-West Highway  
Silver Spring - MD 20910  
United States

**Telephone:** +1 301 713 1677 (ext. 128)

**Telefax:** +1 301 713 1520

**Email:** [Wayne.Presnell@noaa.gov](mailto:Wayne.Presnell@noaa.gov)

## Metarea V

**BRAZIL** 30/07/2018

Mr. Daniel Peixoto de Carvalho  
Lieutenant Commander  
Navy Hydrographic Center (CHM)  
Rue Barao de Jaceguai, s/n  
Niteroi/RJ  
Brazil ZIP: 20.048-900

**Telephone:** +55 21 2189 3027

**Telefax:**

**Email:** [peixoto.carvalho@marinha.mil.br](mailto:peixoto.carvalho@marinha.mil.br)

## Metarea VI

**ARGENTINA** 04/01/2018

Ms. Alicia Guadalupe CEJAS  
Servicio Meteorológico Nacional  
Av.Dorrego 4019 (C1425GBE)  
Buenos Aires  
Argentina

**Telephone:** +54 -11 5167 6767

**Telefax:** +54-11 5167 6709

**Email:** [agcejas@smn.gov.ar](mailto:agcejas@smn.gov.ar)

# METAREA COORDINATOR CONTACTS FOR WMO WORLDWIDE MET-OCEAN INFORMATION AND WARNING SERVICE

## Metarea VII

**SOUTH AFRICA** 02/10/2018

Ms. Christine Thaele  
South African Weather Service  
Weather Office,  
P O Box 21,  
International Airport  
Cape Town - 7525  
South Africa

**Telephone:** +27 (0) 21 935 5700

**Telefax:** +27 (0) 21 934 4590

**Email:** [Christina.Thaele@weathersa.co.za](mailto:Christina.Thaele@weathersa.co.za)

## Metarea VIII(N) - (North of Equator)

**INDIA** 30/03/2017

Ms. Neetha K. Gopal  
Scientist 'E'  
India Meteorological Department  
National Weather Forecasting Centre  
New Delhi 110 003  
India

**Telephone:** +91 11 24635664

+91 11 43824334

Mobile: +91 9011975999

**Telefax:** +91 20 255 35 435

**Email:** [neetha.kgopal@imd.gov.in](mailto:neetha.kgopal@imd.gov.in)  
[neethakgopal@yahoo.com](mailto:neethakgopal@yahoo.com)

## Metarea VIII(S) - (South of the Equator)

**MAURITIUS** 19/06/2018

Mr Renganaden VIRASAMI  
Divisional Meteorologist  
Mauritius Meteorological Services  
St Paul Road  
Vacoas  
Mauritius

**Telephone:** +230 6861031

**Telefax:** +230 6861033

**Email:** [vganessen@yahoo.com](mailto:vganessen@yahoo.com)

## Metarea VIII - Tropical cyclone warnings west of 90E

**LA REUNION** 20/03/2017

Mr. Alain POUJOL  
Météo France, Paris  
Météo France, BP 4  
97491 STE. CLOTILDE  
France

**Telephone:** +33-2 62 92 11 00

**Telefax:** +33-2 62 92 11 47

**Email:** [alain.poujol@meteo.fr](mailto:alain.poujol@meteo.fr)

## Metarea VIII (east of 90E) - Tropical Cyclone warnings

**AUSTRALIA** 28/11/2018

Mr Neal MOODIE  
National Manager - Marine Weather Services  
Australian Bureau of Meteorology  
700 Collins Street  
Docklands  
GPO Box 1289  
Melbourne  
VIC 3001  
Australia

**Telephone:** +61 3 9669 4768

**Telefax:**

**Email:** [neal.moodie@bom.gov.au](mailto:neal.moodie@bom.gov.au)

## Metarea IX

**PAKISTAN** 20/03/2017

Mr Hazrat MIR  
Pakistan Meteorological Department  
Met Complex,  
University Road  
Karachi-75270  
Pakistan

**Telephone:** +92 21 99261404

**Telefax:** +92 21 99261405

**Email:** [pakmet\\_islamabad@yahoo.com](mailto:pakmet_islamabad@yahoo.com)  
[hazratmir2015@yahoo.com](mailto:hazratmir2015@yahoo.com)  
[sarfarazmet@hotmail.com](mailto:sarfarazmet@hotmail.com)



# METAREA COORDINATOR CONTACTS FOR WMO WORLDWIDE MET-OCEAN INFORMATION AND WARNING SERVICE

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## Metarea X

**AUSTRALIA** 28/11/2018

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Mr Neal MOODIE  
National Manager - Marine Weather Services  
Australian Bureau of Meteorology  
700 Collins Street  
Docklands  
GPO Box 1289  
Melbourne  
VIC 3001  
Australia

**Telephone:** +61 3 9669 4768

**Telefax:**

**Email:** [neal.moodie@bom.gov.au](mailto:neal.moodie@bom.gov.au)

---

## Metarea XI

**JAPAN** 24/04/2018

---

Mr. Shigeharu Nishikawa  
Senior Scientific Officer,  
Administration Division,  
Forecast Department  
Japan Meteorological Agency, Tokyo  
1-3-4 Otemachi Chiyoda-ku  
100-8122 - Tokyo  
Japan

**Telephone:**

**Telefax:**

**Email:** [mms-jma@ml.kishou.go.jp](mailto:mms-jma@ml.kishou.go.jp)

---

## Metarea XI

**CHINA (Issuing Service)** 20/03/2017

---

Mr Wei ZHAO  
Typhoon and Marine Weather Forecast Center  
National Meteorological Centre (NMC)  
China Meteorological Administration (CMA)  
Zhongguancun Nandajie No. 46, Haidian District  
BEIJING 100081  
China

**Telephone:** +86 10 58995841

**Telefax:** +86 10 6217 2956

**Email:** [zhaowei@cma.gov.cn](mailto:zhaowei@cma.gov.cn)

---

## Metarea XII

**UNITED STATES OF AMERICA** 20/03/2017

---

Mr Wayne PRESNELL  
Marine and Coastal Weather Services  
National Weather Service/National Oceanic Atmospheric  
Administration  
1325 East-West Highway  
Silver Spring - MD 20910  
United States

**Telephone:** +1 301 713 1677 (ext. 128)

**Telefax:** +1 301 713 1520

**Email:** [Wayne.Presnell@noaa.gov](mailto:Wayne.Presnell@noaa.gov)

---

## Metarea XIII

**RUSSIAN FEDERATION** 20/03/2017

---

Dr. Vasily SMOLYANITSKY  
Head of Laboratory  
Arctic and Antarctic Research Institute  
Bering str., 38  
St.Petersburg - 199397  
Russian Federation

**Telephone:** +7 812 337-3149

**Telefax:** +7 812 337-3241

**Email:** [vms@aari.ag](mailto:vms@aari.ag)

---

## Metarea XIV

**NEW ZEALAND** 20/03/2017

---

Ms. Elke LOUW  
Meteorological Service of New Zealand  
30 Salamanca Rd  
Kelburn  
Wellington 6012  
New Zealand

Note: Mr. Nicholas ZACHAR will replace Ms. Elke until  
September 2016.

**Telephone:** +64 4 470 0737

**Telefax:** +64 4 473 5231

**Email:** [elke.louw@metSERVICE.com](mailto:elke.louw@metSERVICE.com)

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# METAREA COORDINATOR CONTACTS FOR WMO WORLDWIDE MET-OCEAN INFORMATION AND WARNING SERVICE

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## Metarea XV

**CHILE** 07/03/2019

---

Cdr. Pedro Roca Misle  
Head of the Chile Navy Weather Service  
@Servimet\_Armada  
Subida Cementerio No 300 Playa Ancha  
Valparaíso  
Chile

**Telephone:** 56-32-2208620  
56-32-2208622

**Telefax:** 56-32-2208662

**Email:** [proca@directemar.cl](mailto:proca@directemar.cl)  
[servimet@directemar.cl](mailto:servimet@directemar.cl)

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## Metarea XV

**CHILE** 07/03/2019

---

Alternate:  
x-Cdr. Alejandro de la Maza Dori6n  
Chile Navy Weather Service @Servimet\_Armada  
Subida Cementerio No 300 Playa Ancha  
Valparaíso

**Telephone:** 56-32-2208620  
56-32-2208622

**Telefax:** 56-32-2208662

**Email:** [adelamazad@directemar.cl](mailto:adelamazad@directemar.cl)  
[servimet@directemar.cl](mailto:servimet@directemar.cl)

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## Metarea XVI

**PERU** 16/04/2018

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First lieutenant Giacomo MOROTE Somontes  
Ms. Myrian TAMAYO Infantes (Alternata)  
Direcci6n de Hidrografía y Navegaci6n  
Marina de Guerra del Perú  
Calle Roca 118 - Chucuito  
Callao  
Perú

**Telephone:** +51 1 2078160

**Telefax:** +51 1 4530877

**Email:** [gmorote@dhn.mil.pe](mailto:gmorote@dhn.mil.pe)  
[mtamayo@dhn.mil.pe](mailto:mtamayo@dhn.mil.pe)

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## Metarea XVII

**CANADA** 20/03/2017

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Mr John PARKER  
Manager, Prediction and Training Section-Atlantic  
Meteorological Service of Canada  
Environment Canada  
16th Floor, Queen Square, 45 Alderney Drive, Dartmouth  
NS B2Y 2N6  
Canada

**Telephone:** +1 902 426 3836

**Telefax:** +1 902 490 0259

**Email:** [john.parker2@canada.ca](mailto:john.parker2@canada.ca)

---

## Metarea XVIII

**CANADA** 20/03/2017

---

Mr John PARKER  
Manager, Prediction and Training Section-Atlantic  
Meteorological Service of Canada  
Environment Canada  
16th Floor, Queen Square, 45 Alderney Drive,  
Dartmouth NS B2Y 2N6  
Canada

**Telephone:** +1 902 426 3836

**Telefax:** +1 902 490 0259

**Email:** [john.parker2@canada.ca](mailto:john.parker2@canada.ca)

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# METAREA COORDINATOR CONTACTS FOR WMO WORLDWIDE MET-OCEAN INFORMATION AND WARNING SERVICE

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## Metarea XIX

### NORWAY

20/03/2017

Mr Helge TANGEN  
Regional Director  
Norwegian Meteorological Institute  
Forecasting Division of Northern Norway  
The Norwegian Meteorological Institute, (Vervarslinga for Nord-Norge)  
P.box 6314 Langnes  
NO-9293 Tromsø  
Norway

**Telephone:** +47 77 62 13 00

**Telefax:** +47 77 62 13 01

**Email:** [helge.tangen@met.no](mailto:helge.tangen@met.no)

## Metarea XX

### RUSSIAN FEDERATION

20/03/2017

Dr. Vasily SMOLYANITSKY  
Head of Laboratory  
Arctic and Antarctic Research Institute  
Bering str., 38  
St.Petersburg - 199397  
Russian Federation

**Telephone:** +7 812 337-3149

**Telefax:** +7 812 337-3241

**Email:** [vms@aari.ag](mailto:vms@aari.ag)

## Metarea XXI

### RUSSIAN FEDERATION

20/03/2017

Dr. Vasily SMOLYANITSKY  
Head of Laboratory  
Arctic and Antarctic Research Institute  
Bering str., 38  
St.Petersburg - 199397  
Russian Federation

**Telephone:** +7 812 337-3149

**Telefax:** +7 812 337-3241

**Email:** [vms@aari.ag](mailto:vms@aari.ag)



**PART B**

**PORT METEOROLOGICAL OFFICES**



## ARGENTINA

### Buenos Aires

Ms. Natalí Giselle Aranda (PMO, Buenos Aires)  
Dorrego 4019 (C1425GBE)  
ABN Buenos Aires  
Argentina

**Updated:** 12/04/2018

**Telephone:** +54-11 5167 6767 int 18761

**Telefax:**

**Telex:**

**Email:** [redes@smn.gov.ar](mailto:redes@smn.gov.ar)  
[naranda@smn.gov.ar](mailto:naranda@smn.gov.ar)

## AUSTRALIA

### Main Port: Fremantle

#### Ports/area Serviced: All national ports

Mr. Ian Charlesworth  
Senior Port Meteorological Officer  
Bureau of Meteorology  
PO Box 1370  
Perth WA 6872  
Australia

**Updated:** 30/04/2019  
**Telephone:** +61 8 9263 2294  
**Telefax:** +61 8 9263 2297  
**Telex:**  
**Email:** [PMA.Fremantle@bom.gov.au](mailto:PMA.Fremantle@bom.gov.au)

### Main Port: Fremantle

#### Ports/area Serviced: Fremantle, Bunbury, Kwinana

Mr. Craig Foster  
Port Meteorological Officer Fremantle  
Bureau of Meteorology  
PO Box 1370  
Perth WA 6872  
Australia

**Updated:** 30/04/2019  
**Telephone:** +61 8 9263 2292  
**Telefax:** +61 8 9263 2297  
**Telex:**  
**Email:** [PMA.Fremantle@bom.gov.au](mailto:PMA.Fremantle@bom.gov.au)

### Main Port: Melbourne

#### Ports or area serviced: Melbourne

Mr. Joel Cabrie  
Manager, Marine Networks  
Bureau of Meteorology  
GPO Box 1289  
Melbourne VIC 3001  
Australia

**Updated:** 30/04/2019  
**Telephone:** +61 3 9669 4651  
**Telefax:** +61 3 9669 4168  
**Telex:**  
**Email:** [joel.cabrie@bom.gov.au](mailto:joel.cabrie@bom.gov.au)

### Main Port: Melbourne

#### Ports/area Serviced: Melbourne, Geelong

Mr. Julian Rodriguez  
Port Meteorological Officer Melbourne  
Bureau of Meteorology  
GPO Box 1636  
Melbourne VIC 3001  
Australia

**Updated:** 30/04/2019  
**Telephone:** +61 3 9669 4951  
**Telefax:** +61 3 9669 4168  
**Telex:**  
**Email:** [PMA.Melbourne@bom.gov.au](mailto:PMA.Melbourne@bom.gov.au)

### Main Port: Sydney

#### Ports/area Serviced: Sydney, Newcastle, Port Kembla

Mr. Jason Gleadhill  
Port Meteorological Officer Sydney  
Bureau of Meteorology  
GPO Box 413  
Darlinghurst NSW 1300  
Australia

**Updated:** 30/04/2019  
**Telephone:** +61 2 9296 1552  
**Telefax:** +61 2 9296 1648  
**Telex:**  
**Email:** [PMA.Sydney@bom.gov.au](mailto:PMA.Sydney@bom.gov.au)



## BELGIUM

### Main Port: Antwerpen

### Ports or area serviced: Gent, Zeebrugge

---

Mr. René J. Rozeboom  
Port Meteorological Officer  
P.O. Box 201  
3730 AE de Bilt  
The Netherlands

**Updated:** 02/03/2016  
**Telephone:** +31 30 2206 678  
**Telefax:** --  
**Telex:**  
**Email:** [Pmo.office@knmi.nl](mailto:Pmo.office@knmi.nl)

Mr. A.A. de Vries  
Port Meteorological Officer  
P.O. Box 201  
3730 AE de Bilt  
The Netherlands

**Updated:** 02/03/2016  
**Telephone:** +31 30 2206851  
**Telefax:**  
**Telex:**  
**Email:** [Pmo.office@knmi.nl](mailto:Pmo.office@knmi.nl)

## BRAZIL

**Main port: Niteroi – Rio de Janeiro;**  
**Port/area services: All Brazilian ports**

---

CDR Daniel Peixoto de Carvalho  
Head of Met-Ocean Forecasts Division  
Centro de Higrgrafia da Marinha  
Rua Barão de Jaceguay, s/n, Ponta da Armação. Niterói -  
RJ, Brasil. CEP: 24048-900.

**Updated:** 30/04/2019

**Telephone:** +55 (21) 2189-3027

**Telefax:**

**Telex:**

**Email:** [peixoto.carvalho@marinha.mil.br](mailto:peixoto.carvalho@marinha.mil.br)

## CANADA

---

**Main Port: Burlington, Ontario**  
**Ports or area serviced: Great Lakes Ports**

Mr. Shawn Rickard  
PMO

Meteorological Service of Canada, ECCC  
867 Lakeshore Road  
Burlington, ON L7S 1A1  
Canada

**Updated:** 30/04/2019

**Telephone:** 905-336-4672

**Telefax:** --

**Telex:**

**Email:** [shawn.rickard@canada.ca](mailto:shawn.rickard@canada.ca)

---

**Main Port: Edmonton, Alberta**  
**Ports or area serviced: Great Slave Lake Ports; Lake Athabasca Ports; Western Arctic Ports**

Mr. Mark Pyper  
PMO

Meteorological Service of Canada, ECCC  
M.J. Greenwood Centre  
9345 49th Street  
Edmonton, AB T6B 2L8  
CANADA

**Updated:** 30/04/2019

**Telephone:** 780-495-5472

**Telefax:** --

**Telex:**

**Email:** [mark.pyper@canada.ca](mailto:mark.pyper@canada.ca)

---

**Main Port: Halifax, Nova Scotia**  
**Ports or area serviced: Atlantic Ports - Maritimes**

Mr. Derek Cain  
PMO

Meteorological Service of Canada, ECCC  
275 Rocky Lake Drive  
Bedford, NS B4A 2T3

**Updated:** 30/04/2019

**Telephone:** 902-426-6616

**Telefax:**

**Telex:**

**Email:** [derek.cain@canada.ca](mailto:derek.cain@canada.ca)

---

**Main Port: Montreal, Quebec**  
**Ports or area serviced: St-Lawrence Ports - Quebec**

Mr. Ryan Arseneault  
PMO

Meteorological Service of Canada, ECCC  
Place Bonaventure, Portail Nord-Est  
800 de la Gauchetière ouest, Suite 7810  
Montréal, QC H5A 1L9

**Updated:** 30/04/2019

**Telephone:** 514-283-1637

**Telefax:**

**Telex:**

**Email:** [ryan.arseneault@canada.ca](mailto:ryan.arseneault@canada.ca)

---

**Main Port: St. John's, Newfoundland;**  
**Ports or area serviced: Atlantic Ports - Newfoundland**

Mr. Andre Dwyer  
PMO

Meteorological Service of Canada, ECCC  
6 Bruce Street  
Mount Pearl, NL A1N 4T3

**Updated:** 30/04/2019

**Telephone:** 709-772-4798

**Telefax:**

**Telex:**

**Email:** [andre.dwyer@canada.ca](mailto:andre.dwyer@canada.ca)

---

**Main Port: Victoria, British Columbia**  
**Ports or area serviced: Pacific Ports**

Mr. Dragan Radovic  
PMO

Meteorological Service of Canada, ECCC  
13160 Vanier Place, Suite 140  
Richmond, BC V6V 2J2  
CANADA

**Updated:** 30/04/2019

**Telephone:** 604-713-9523

**Telefax:**

**Telex:**

**Email:** [dragan.radovic@canada.ca](mailto:dragan.radovic@canada.ca)

**Main Port: Winnipeg, Manitoba**  
**Ports or area Serviced: Manitoba Lakes Ports**

---

Mr. Greg Standsfield  
PMO  
Meteorological Service of Canada, ECCC  
123 Main Street, Suite 150  
Winnipeg, MB R3C 4W2  
CANADA

**Updated:** 30/04/2019  
**Telephone:** 204-983-6155  
**Telefax:** --  
**Telex:**  
**Email:** [greg.standsfield@canada.ca](mailto:greg.standsfield@canada.ca)

## CHILE

### **Main Port: Iquique; Ports/area serviced: Iquique**

Lt. Carlos Gaete  
Head and PMO of Iquique Meteorological Center  
Centro Meteorológico (I.)  
Gobernación Marítima de Iquique  
Jorge Barrera 98, Iquique  
CHILE

**Updated:** 18/06/2018  
**Telephone:** 56 (57) 24 01 946 / 24 01 971  
**Telefax:** --  
**Telex:**  
**Email:** [cGaete@directemar.cl](mailto:cGaete@directemar.cl)

### **Main Port: Puerto Montt; Ports/area serviced: Puerto Montt**

Lt. Ignacio Ojeda  
Head of Puerto Montt Meteorological Center  
Centro Meteorológico (P.)  
Gobernación Marítima de Puerto Montt  
Avenida Angelmó 2201, Puerto Montt  
CHILE

**Updated:** 18/06/2018  
**Telephone:** 56 (65) 25 61 174 / 25 61 150  
**Telefax:**  
**Telex:**  
**Email:** [iOjeda@directemar.cl](mailto:iOjeda@directemar.cl)

Lt. Camilo Aránguiz  
PMO Puerto Montt Meteorological Center  
Centro Meteorológico (P.)  
Gobernación Marítima de Puerto Montt  
Avenida Angelmó 2201, Puerto Montt  
CHILE

**Updated:** 18/06/2018  
**Telephone:** 56 (65) 25 61 150 / 25 61 174  
**Telefax:**  
**Telex:**  
**Email:** [cAranguiz@directemar.cl](mailto:cAranguiz@directemar.cl)

### **Main Port: Punta Arenas; Ports/area serviced: Punta Arenas**

Ms. Angella Undurraga  
PMO Punta Arenas Meteorological Center  
Centro Meteorológico (M.)  
Gobernación Marítima de Punta Arenas  
Grl. Bernardo O'Higgins 1169, Punta Arenas  
CHILE

**Updated:** 18/06/2018  
**Telephone:** 56 (61) 22 01 136 / 22 01 148  
**Telefax:**  
**Telex:**  
**Email:** [aUndurraga@directemar.cl](mailto:aUndurraga@directemar.cl)

### **Main Port: Talcahuano; Ports/area serviced: Lirquén, Talcahuano, San Vicente, Coronel**

LCdr. Gonzalo Concha  
Head and PMO of Talcahuano Meteorological Center  
Centro Meteorológico (T.)  
Gobernación Marítima de Talcahuano  
Almirante Villarroel 107, Talcahuano  
CHILE

**Updated:** 18/06/2018  
**Telephone:** 56 (41) 22 66 136 / 22 66 157  
**Telefax:**  
**Telex:**  
**Email:** [gConcha@directemar.cl](mailto:gConcha@directemar.cl)

### **Main Port: Valparaiso; Ports/area serviced: Valparaiso, Quintero, San Antonio**

Lt. Felipe Fernández  
PMO Valparaiso Meteorological Center  
Centro Meteorológico (V.)  
Gobernación Marítima de Valparaíso  
Leopoldo Carvallo 150, Valparaíso  
CHILE

**Updated:** 18/06/2018  
**Telephone:** 56 (32) 22 08 914 / 22 08 965  
**Telefax:**  
**Telex:**  
**Email:** [fFernandezA@directemar.cl](mailto:fFernandezA@directemar.cl)

LCdr. Felipe Rifo  
Head Punta Arenas Meteorological Center  
Centro Meteorológico (M.)  
Gobernación Marítima de Punta Arenas  
Gr. Bernardo O'Higgins 1169, Punta Arenas  
CHILE

**Updated:** 18/06/2018  
**Telephone:** 56 (61) 22 01 136 / 22 01 148  
**Telefax:**  
**Telex:**  
**Email:** [fRifo@directemar.cl](mailto:fRifo@directemar.cl)

LCdr. Roberto Díaz  
Head Valparaiso Meteorological Center  
Centro Meteorológico (V.)  
Gobernación Marítima de Valparaíso  
Leopoldo Carvallo 150, Valparaíso  
CHILE

**Updated:** 18/06/2018  
**Telephone:** 56 (32) 22 08 914 / 22 08 947  
**Telefax:**  
**Telex:**  
**Email:** [rDiazSc@directemar.cl](mailto:rDiazSc@directemar.cl)

## CROATIA

**Main Port: Split**  
**Port/Area serviced: Adriatic Sea**

---

Mr. Ružica Popovic  
B.C.E. / PMO  
Glagoljaša 11,  
21000 Spit,  
Croatia

**Updated:** 30/04/2019  
**Telephone:** +385 21 401 370  
**Telefax:** +385 21 401 370  
**Telex:**  
**Email:** [popovic@cirus.dhz.hr](mailto:popovic@cirus.dhz.hr)

Mr. Denis Rašić  
VOS -AWS/EUCAWS technical support  
Glagoljaša 11,  
21000 Spit,  
Croatia

**Updated:** 30/04/2019  
**Telephone:** +385 21 401 362  
**Telefax:** +385 21 401 382  
**Telex:**  
**Email:** [rasic@cirus.dhz.hr](mailto:rasic@cirus.dhz.hr)

Ms. Leonor Vera  
Ministerio de Defensa Nacional (MIDENA)  
Av. 25 de Julio  
Guayaquil  
ECUADOR

**Updated:** 16/03/2017

**Telephone:**

**Telefax:** --

**Telex:**

**Email:** [leonor.vera@inocar.mil.ec](mailto:leonor.vera@inocar.mil.ec)



## FALKLAND ISLANDS (MALVINAS)

### Falklands/Malvinas

Capt R. GORBUTT  
PMO  
Marine Officer  
Fishery Protection Office  
Port Stanley  
Falklands  
Falkland Islands Malvinas

**Updated:** 10/11/2011  
**Telephone:** +500 27260  
**Telefax:** +500 27265  
**Telex:** 2426 FISHDIR FK  
**Email:**

## FINLAND

### Helsinki

Ms Marja AARNIO-FRISK  
Head of Group  
Finnish Meteorological Institute  
Port Meteorological Offices  
P.O. Box 503  
FI00101 HELSINKI  
Finland

**Updated:** 29/01/2015

**Telephone:** +358 295391000

**Telefax:** +358 295393303

**Telex:**

**Email:** [marja.aarnio@fmi.fi](mailto:marja.aarnio@fmi.fi)

## FRANCE

### Main Port: Bordeaux

Ports/Areas serviced: Bordeaux, La Rochelle, Royan

Mr. Philippe GAUTIER  
Chef technicien  
Météo-France  
Direction Inter Régionale Sud-Ouest  
7, avenue Roland Garros  
33692 Mérignac CEDEX  
FRANCE

**Updated:** 30/04/2019  
**Telephone:** +33 5 57 29 12 06  
**Telefax:**  
**Telex:**  
**Email:** [philippe.gautier@meteo.fr](mailto:philippe.gautier@meteo.fr)

### Main Port: Boulogne-sur-mer

Ports/Areas serviced: Boulogne, Dunkerque

Mr. Gérard DOLIGEZ  
Ingénieur des travaux  
Station météorologique  
17, Bd Sainte Beuve  
62200 Boulogne sur Mer  
FRANCE

**Updated:** 30/04/2019  
**Telephone:** +33 3 21 10 85 10  
**Telefax:** +33 3 21 10 85 14  
**Telex:**  
**Email:** [gerard.doligez@meteo.fr](mailto:gerard.doligez@meteo.fr)

### Main Port: Brest;

Ports/Areas serviced: Brittany (Brest – Lorient – St Malo – Roscoff...)

Mr. Bruno Maze  
Technicien supérieur  
Centre Météorologique de Brest  
245 route de l'aéroport  
29490 GUIPAVAS  
FRANCE

**Updated:** 30/04/2019  
**Telephone:** +33 2 98 32 55 61  
**Telefax:** +33 2 98 84 87 50  
**Telex:**  
**Email:** [bruno.maze@meteo.fr](mailto:bruno.maze@meteo.fr)

### Main Port: Guadeloupe – Pointe à Pitre

Ports/Areas serviced: Pointe à Pitre

Mr. Emile Abauzit  
Chef technicien  
Météo-France  
Service Régional Météorologique de la Guadeloupe  
Aéroport du Raizet - BP 451 - 97183 Les Abymes Cedex

**Updated:** 30/04/2019  
**Telephone:** +33 590 89 60 86  
**Telefax:** +33 590 89 60 75  
**Telex:**  
**Email:** [emile.abauzit@meteo.fr](mailto:emile.abauzit@meteo.fr)

### Main Port: La Réunion – Ste-Clotilde;

Ports/Areas serviced: La Réunion

Mr. Jean-Luc DEKUSSCHE  
Chef technicien  
Météo-France DIROI  
50, Bd du Chaudron  
97490 Sainte Clotilde  
FRANCE

**Updated:** 30/04/2019  
**Telephone:** +26 22 62 92 11 30  
**Telefax:** +26 22 62 92 11 47  
**Telex:**  
**Email:** [jean-luc.dekussche@meteo.fr](mailto:jean-luc.dekussche@meteo.fr)

### Main Port: Marseille

Ports/Areas serviced: Marseille – Fos sur Mer – Toulon – La Seyne sur Mer

Mr. Michel PÉRINI  
Chef technicien Météo-France – DIR Sud-Est  
OBS/RESEAU – Bureau de port  
2, Bd Château double  
13098 Aix En Provence Cedex 02  
FRANCE

**Updated:** 30/04/2019  
**Telephone:** +33 4 42 95 90 15  
**Telefax:** +33 4 42 95 90 09  
**Telex:**  
**Email:** [michel.perini@meteo.fr](mailto:michel.perini@meteo.fr)

**Main Port: Nouméa;**  
**Ports/Areas serviced: Nouméa**

---

Franck LAVAUD  
Technicien supérieur  
Station météorologique  
BP 151  
98845 Nouméa Port  
FRANCE

**Updated:** 30/04/2019  
**Telephone:** +687 27 93 12  
**Telefax:** +687 27 93 27  
**Telex:**  
**Email:** [franck.lavaud@meteo.fr](mailto:franck.lavaud@meteo.fr)

FRANCE

**Main Port: Papeete**  
**Ports/Areas serviced: Papeete**

---

Mr. Hirohiti Lo  
Chef technicien  
Météo-France DIR Polynésie Française  
BP 6005  
98702 Faa'a Aéroport  
FRANCE

**Updated:** 30/04/2019  
**Telephone:** +689 80 33 53  
**Telefax:** +689 80 33 64  
**Telex:**  
**Email:** [hirohiti.lo@meteo.fr](mailto:hirohiti.lo@meteo.fr)

## GAMBIA

### Main Port: Banjul

#### Ports or area serviced: Banjul Port

---

Mr. Momodou Njie  
Meteorological Technician / PMO  
7 Marina Parade  
Banjul  
The Gambia

**Updated:** 15/03/2016  
**Telephone:** +220 7033871/ 9828783/ 3928783  
**Telefax:**  
**Telex:**  
**Email:** [njaipm@yahoo.co.uk](mailto:njaipm@yahoo.co.uk)

Mr. Omar Gaye Cham  
Meteorological Assistant / PMO  
7 Marina Parade  
Banjul  
The Gambia

**Updated:** 15/03/2016  
**Telephone:** +220 6729664  
**Telefax:** --  
**Telex:**  
**Email:** [oqcham@hotmail.com](mailto:oqcham@hotmail.com)

## GERMANY

**Main Port: Bremerhaven;  
Ports or area serviced: Bremerhaven and North Sea**

PMO Office Bremerhaven  
PMO  
Deutscher Wetterdienst  
An der neuen Schleuse 10 b  
27570 Bremerhaven  
Germany

**Updated:** 30/04/2019  
**Telephone:** +49 471 700 4018  
**Telefax:** +49 471 700 4017  
**Telex:**  
**Email:** [pmo@dwd.de](mailto:pmo@dwd.de)

**Main Port: Hamburg (E-ASAP, German ASAP)  
Ports/area serviced: Hamburg and other ports  
(E-ASAP, German ASAP)**

Mr Harald Budweg  
PMO  
Bernhard-Nocht-Strasse 76  
20359 Hamburg  
Germany

**Updated:** 30/04/2019  
**Telephone:** +49 69 8062 6314  
**Telefax:** +49 69 8062 6319  
**Telex:**  
**Email:** [Harald.Budweg@dwd.de](mailto:Harald.Budweg@dwd.de)

EUMETNET

**Main Port: Hamburg;  
Ports or area serviced: Hamburg and Baltic Sea**

PMO Office Hamburg  
PMO  
Deutscher Wetterdienst  
Bernhard-Nocht-Strasse 76  
20359 Hamburg  
Germany

**Updated:** 30/04/2019  
**Telephone:** +49 69 8062 6312  
**Telefax:** +49 69 8062 6319  
**Telex:**  
**Email:** [pmo@dwd.de](mailto:pmo@dwd.de)

**Main Port: Hamburg;  
Ports or area serviced: Hamburg, Baltic Sea, North Sea**

Mr. Henry Kleta  
Marine Network Manager  
Deutscher Wetterdienst  
Bernhard-Nocht-Strasse 76  
20359 Hamburg  
Germany

**Updated:** 30/04/2019  
**Telephone:** +49 69 8062 6310  
**Telefax:** +49 69 8062 6319  
**Telex:**  
**Email:** [henry.kleta@dwd.de](mailto:henry.kleta@dwd.de)

## GIBRALTAR

### Gibraltar

PMO GIBRALTAR  
Meteorological Office  
RAF Gibraltar, BFPO 52  
Gibraltar

**Updated:** 10/11/2011

**Telephone:** +350 53419

**Telefax:** +350 53474

**Telex:**

**Email:**

## GREECE

### Main Port: Piraeus;

Area serviced: All ports within radius 60km from Piraeus

---

Ms Dionysia KOTTA  
Marine Section Officer / PMOEI.Venizelou 14, Hellinikon  
16777 ATHENS  
Greece

**Updated:** 30/04/2019  
**Telephone:** +30 2109699113  
**Telefax:** +30 2109628952  
**Telex:**  
**Email:** [dionysia.kotta@hnms.gr](mailto:dionysia.kotta@hnms.gr)

Mr Michael MYRSILIDIS  
Head of Marine Section / PMO Supervisor  
El.Venizelou 14, Hellinikon  
16777 ATHENS  
Greece

**Updated:** 30/04/2019  
**Telephone:** +30 2109699013  
**Telefax:** +30 2109628952  
**Telex:**  
**Email:** [michail.myrsilidis@emy.gr](mailto:michail.myrsilidis@emy.gr)



## HONG KONG, CHINA

**Main Port: Hong Kong, China;**  
**Ports/area serviced: Hong Kong**

---

Mr. Dickson Dick-shum LAU  
Acting Chief Experimental Officer  
Hong Kong Observatory  
134A Nathan Road, Kowloon,  
Hong Kong, China

**Updated:** 30/04/2019  
**Telephone:** +852 2926 8245  
**Telefax:** +852 2311 9448  
**Telex:**  
**Email:** [dslau@hko.gov.hk](mailto:dslau@hko.gov.hk)

Mr. Chi-Kin CHOW  
Port Meteorological Officer  
Hong Kong Observatory  
134A Nathan Road, Kowloon,  
Hong Kong, China

**Updated:** 30/04/2019  
**Telephone:** +852 2926 3113  
**Telefax:** +852 2311 9448  
**Telex:**  
**Email:** [hkopmo@hko.gov.hk](mailto:hkopmo@hko.gov.hk)

**Reykjavik**

Mr Odinn TAORARINNSON  
Head, Measurements  
Icelandic Meteorological Office  
Bústaðavegi 9  
150 Reykjavík  
Iceland

**Updated:** 10/11/2011  
**Telephone:** +354 522 6000  
**Telefax:** +354 522 6004  
**Telex:**  
**Email:** [odinn@vedur.is](mailto:odinn@vedur.is)

## INDIA

### Chennai

Shri A.P.Prakashan  
Port Meteorological Officer  
Director in-charge,  
Port Meteorological Office  
Regional Meteorological Centre,  
Inspectorate Section/PMO Unit,  
New No.6,(Old No. 50), College Road,  
Chennai - 600 006

Working Hours:  
0930-1800 5 days week

**Updated:** 27/02/2013  
**Telephone:** 044 28230092/94/91  
Ext. Inspectorate Section: 230,231,234,332  
**Telefax:** 044 28271581  
(ACWC Chennai)  
**Telex:**  
**Email:** [isrmcchennai@gmail.com](mailto:isrmcchennai@gmail.com)  
[pmochennai@gmail.com](mailto:pmochennai@gmail.com)

### Goa

Shri N. Haridasan  
Port Meteorological Officer  
Director,  
Port Meteorological Liaison Office,  
Goa Observatory,  
Altinho, Panjim  
Goa - 403 001

Working Hours:  
0930-1800 5 days week

**Updated:** 27/02/2013  
**Telephone:** 0832 2425547  
Mobile - Shri M. Haridasan A.M.I:  
09579634860  
Smt. V.V.Damle A.M.II: 08275877586  
**Telefax:** 0832 2420161  
**Telex:**  
**Email:** [directorimdgoa@gmail.com](mailto:directorimdgoa@gmail.com)

### Kochi

Shri M.Sethumadhavan  
Port Meteorological Officer  
Officer in charge,  
Port Meteorological Office,  
Cochin Port Trust,  
Ex-Mahavir Plantation Building,  
Opp. IOC Ltd.,Indira Gandhi Road,  
Willingdon Island, (South)  
Kochi - 682 003

Working Hours: 0900-1730

**Updated:** 27/02/2013  
**Telephone:** 0484 2667042  
Mobile: 09446478262 &  
Mobile - Shri V.L.Rajendran,S.A.:  
09495779897  
**Telefax:** NA  
**Telex:**  
**Email:** [pmokochi@dataone.in](mailto:pmokochi@dataone.in)

### Kolkata

Shri. Ganesh Kumar Das  
Port Meteorological Officer  
Director I/C,  
Regional Meteorological Centre,  
4 Duel Avenue, Alipore,  
Kolkata (West Bengal), PIN 700027

Working Hours: 0930-1800 5 days week

**Updated:** 27/02/2013  
**Telephone:** 033 24492559  
Mobile - c/o Shri G.K.Das: 09836213781  
**Telefax:** 033 24793167  
**Telex:**  
**Email:** [pmokolkata@gmail.com](mailto:pmokolkata@gmail.com)

### Mumbai

K.S. Hosalikar  
Scientist - F  
Deputy Director General of Meteorology,  
India Meteorological Department,  
Regional Meteorological Centre,  
Mumbai - 400 005  
India

Working Hours: 0930-1800 5 days week

**Updated:** 20/06/2017  
**Telephone:** Mobile: +919167331299  
**Telefax:** 91-22-22150517  
**Telex:**  
**Email:** [Ks\\_hosalikar@yahoo.co.in](mailto:Ks_hosalikar@yahoo.co.in)

**Visakhapatnam**

Shri E. N. S. Sagar  
Port Meteorological Officer  
Director I/C,  
Port Meteorological Office,  
Cyclone Warning Center,  
Kirlumpudi,  
Opposite Andhra University out gate,  
Vishakhapatnam - 530 017

**Updated:** 27/02/2013

**Telephone:** 0891-2543031/32/34/35/36  
Mobile - c/o Shri E. N. S. Sagar:  
09885256279

**Telefax:** 0891-2543033  
0891-2543036

**Telex:**

**Email:** [cwcvsk@gmail.com](mailto:cwcvsk@gmail.com)

Working Hours: 0930-1800 5 days week

## INDONESIA

**Main port: Belawan**  
**Ports/area serviced: Medan**

Selamat  
Head of Observation and Information Section  
Jl. Raya Pelabuhan III Gabion Ringkai Belawan - Medan,  
Sumatera Utara 20414  
Indonesia

**Updated:** 30/04/2019  
**Telephone:** +62 61-6940340  
**Telefax:** +62 61-694851  
**Telex:**  
**Email:** [stamar.belawan@bmkgo.id](mailto:stamar.belawan@bmkgo.id)

**Main port: Bitung**  
**Ports/area serviced: Bitung**

Ricky Daniel Aror  
Head of Observation and Information Section  
Jl. Candi Kadoodan no 53, Bitung  
Indonesia

**Updated:** 30/04/2019  
**Telephone:**  
**Telefax:**  
**Telex:**  
**Email:** [Stamar.bitung@yahoo.com](mailto:Stamar.bitung@yahoo.com)

**Main port: Kendari**  
**Ports/area serviced: Kendari**

Ismet Busain  
Head of Observation and Information Section  
Indonesia

**Updated:** 30/04/2019  
**Telephone:**  
**Telefax:**  
**Telex:**  
**Email:** [stamarkendari@gmail.com](mailto:stamarkendari@gmail.com)

**Main port: Panjang**  
**Ports/area serviced: Lampung**

Sugiyono  
Head of Lampung Meteorological Station  
Jl. Yos Sudarso No. 64 Way Lunik, Panjang Bandar  
Lampung 35243  
Indonesia

**Updated:** 30/04/2019  
**Telephone:** +62 721-342219  
**Telefax:**  
**Telex:**  
**Email:** [stamar.lampung@bmkgo.id](mailto:stamar.lampung@bmkgo.id)

**Main port: Paotere**  
**Ports/area serviced: Makassar**

Andi Cahyadi  
Head of Observation and Information Section  
Jl. Sabutung I No. 30 Paotere - Makassar 90163  
Indonesia

**Updated:** 30/04/2019  
**Telephone:** +62 411-3619242  
**Telefax:** +62 411-3628235  
**Telex:**  
**Email:** [stamar.paotere@bmkgo.id](mailto:stamar.paotere@bmkgo.id)

**Main port: Pontianak**  
**Ports/area serviced: Pontianak**

Danu Triatmoko  
Head of Pontianak Meteorological Station  
Jl. Pelabuhan Laut Pontianak 78112  
Indonesia

**Updated:** 30/04/2019  
**Telephone:** +62 561-769906  
**Telefax:** +62 561-769906  
**Telex:**  
**Email:** [stamar.pontianak@bmkgo.id](mailto:stamar.pontianak@bmkgo.id)

**Main port: Tanjung Mas**  
**Ports/area serviced: Semarang**

---

Slamet Wiyono  
Head of Observation and Information Section  
Jl. Yos Sudarso No 58 Pelabuhan Tanjung Emas Semarang  
Indonesia

**Updated:** 30/04/2019  
**Telephone:** +62 24-3559194  
**Telefax:** +62 24-3549050  
**Telex:**  
**Email:** [stamar.semarang@bmgk.go.id](mailto:stamar.semarang@bmgk.go.id)

**Main port: Tanjung Perak**  
**Ports/area serviced: Surabaya**

---

Sutarno  
Head of Observation and Information Section  
Jl. Kalimas Baru 97B Surabaya  
Indonesia

**Updated:** 30/04/2019  
**Telephone:** +62 31-3287123  
**Telefax:** +62 31-3291439  
**Telex:**  
**Email:** [stamar.perak2@bmgk.go.id](mailto:stamar.perak2@bmgk.go.id)

**Main port: Tanjung Priok**  
**Ports/area serviced: Jakarta**

---

Iman  
Head of Tanjung Priok Meteorological Station  
Jl. Padang marang No. 4 Pelabuhan Tanjung priok 14310  
Indonesia

**Updated:** 30/04/2019  
**Telephone:** +62 21-43901650  
**Telefax:** +62 21-4351366  
**Telex:**  
**Email:** [stamar.tanjungpriok@bmgk.go.id](mailto:stamar.tanjungpriok@bmgk.go.id)

**Main port: Teluk Bayur**  
**Ports/area serviced: Padang**

---

Syafrizal  
Head of Teluk Bayur Meteorological Station  
Jl. Cilacap No. 31A Teluk Bayur, Padang, Sumatera Barat,  
25217  
Indonesia

**Updated:** 30/04/2019  
**Telephone:** +62 751-62331  
**Telefax:** +62 751-62331  
**Telex:**  
**Email:** [stamar.forecast@gmail.com](mailto:stamar.forecast@gmail.com)

**Main Port: Bandar abbas**

Ms Raheleh Ramezani  
Marine Meteorology expert  
Bandar Abbas Meteorology General Office, No.7919719695

**Updated:** 19/06/2018  
**Telephone:** +98 076 32655390  
**Telefax:** +98 076 33670726  
**Telex:**  
**Email:** [Rahilrm29@gmail.com](mailto:Rahilrm29@gmail.com)

## IRELAND

**Main Port: Cork;****Ports/area serviced: Cork Office is responsible for Cork and the south coast of Ireland**

---

Mr Brian DOYLE  
Principal Meteorological Officer  
Met Éireann  
Old Control Tower  
Cork Airport  
Cork  
Ireland

**Updated:** 30/04/2019  
**Telephone:** +353-21-4917753  
**Telefax:** +353-21-4317405  
**Telex:**  
**Email:** [brian.doyle@met.ie](mailto:brian.doyle@met.ie)

**Main Port: Dublin;****Ports/area serviced: Online [www.met.ie](http://www.met.ie)****Dublin Office is responsible for all coasts of Ireland**

---

Mr Columba CREAMER  
PMO  
Met Éireann  
Glasnevin Hill  
Dublin 9  
Ireland

**Updated:** 30/04/2019  
**Telephone:** +353-1-8064228  
**Telefax:** +353-1-8064247  
**Telex:**  
**Email:** [columba.creamer@met.ie](mailto:columba.creamer@met.ie)



## ISRAEL

### Main Port: Haifa, Ashdod

Ms Lilach LEV  
Port Meteorological Officer  
Israel Meteorological Service  
P.O. Box 25  
Bet Dagan 5025001  
Israel

[www.ims.gov.il](http://www.ims.gov.il)

**Updated:** 16/03/2017

**Telephone:** +972-3-9403117

**Telefax:** +972-3-9604065

**Telex:**

**Email:** [levl@ims.gov.il](mailto:levl@ims.gov.il)

## JAPAN

**Main Port: Hakata;  
Ports/area Serviced: Fukuoka**

Toshihiro ISHIHARA  
Senior Engineer  
Fukuoka Regional Headquarters  
Japan Meteorological Agency  
1-2-36, Ohori, Chuo-ku,  
Fukuoka 810-0052  
Japan

**Updated:** 06/05/2019  
**Telephone:** +81-92-725-3613  
**Telefax:** +81-92-761-1726  
**Telex:**  
**Email:** [pmo@climar.kishou.go.jp](mailto:pmo@climar.kishou.go.jp)

**Main Port: Ishikariwan Shinko;  
Ports/area Serviced: Sapporo**

Yumitoshi MIURA  
Senior Engineer  
Sapporo Regional Headquarters  
Japan Meteorological Agency  
18-2, Kitanijo-nishi, Chuo-ku,  
Sapporo 060-0002  
Japan

**Updated:** 06/05/2019  
**Telephone:** +81-11-611-6174  
**Telefax:** +81-11-611-3206  
**Telex:**  
**Email:** [pmo@climar.kishou.go.jp](mailto:pmo@climar.kishou.go.jp)

**Main Port: Kobe  
Ports or area serviced: Kobe**

Yoshifumi ONO  
Port Meteorological Officer  
Kobe Local Meteorological Office  
1-4-3, Wakinohamakaigan-dori, Chuo-ku,  
Kobe 651-0073  
Japan

**Updated:** 06/05/2019  
**Telephone:** +81-78-222-8918  
**Telefax:** +81-78-222-8945  
**Telex:**  
**Email:** [pmo@climar.kishou.go.jp](mailto:pmo@climar.kishou.go.jp)

**Main Port: Nagoya  
Ports or area serviced: Nagoya**

Takahiro ISHIHARA  
Port Meteorological Officer  
Nagoya Local Meteorological Office  
2-18, Hiyori-cho, Chikusa-ku,  
Nagoya 464-0039  
Japan

**Updated:** 06/05/2019  
**Telephone:** +81-52-752-6364  
**Telefax:** +81-52-762-1242  
**Telex:**  
**Email:** [pmo@climar.kishou.go.jp](mailto:pmo@climar.kishou.go.jp)

**Main Port: Naha;  
Ports/area Serviced: Okinawa**

Minoru MORITA  
Senior Engineer  
Okinawa Regional Headquarters  
Japan Meteorological Agency  
1-15-15, Higawa,  
Naha 900-8517  
Japan

**Updated:** 06/05/2019  
**Telephone:** +81-98-833-4065  
**Telefax:** +81-98-833-4292  
**Telex:**  
**Email:** [pmo@climar.kishou.go.jp](mailto:pmo@climar.kishou.go.jp)

**Main Port: Osaka  
Ports/area Serviced: Osaka**

Hiroyuki TAKANO  
Senior Engineer  
Osaka Regional Headquarters  
Japan Meteorological Agency  
4-1-76, Otemae, Chuo-ku,  
Osaka 540-0008  
Japan

**Updated:** 06/05/2019  
**Telephone:** +81-6-6949-6160  
**Telefax:** +81-6-6949-6160  
**Telex:**  
**Email:** [pmo@climar.kishou.go.jp](mailto:pmo@climar.kishou.go.jp)

**Main Port: Sendai-Shiogama;  
Ports/area Serviced: Sendai**

---

Hideshi DAIMON  
Senior Engineer  
Sendai Regional Headquarters  
Japan Meteorological Agency  
1-3-15, Gorin, Miyagino-ku,  
Sendai 983-0842  
Japan

**Updated:** 06/05/2019  
**Telephone:** +81-22-297-8107  
**Telefax:** +81-22-291-8110  
**Telex:**  
**Email:** [pmo@climar.kishou.go.jp](mailto:pmo@climar.kishou.go.jp)

**Main Port: Tokyo  
Ports or area serviced: Tokyo**

---

Masaya KONISHI  
Scientific Officer  
Marine Division  
Global Environment and Marine Dept.  
Japan Meteorological Agency  
1-3-4, Ote-machi, Chiyoda-ku,  
Tokyo 100-8122  
Japan

**Updated:** 06/05/2019  
**Telephone:** +81-3-3212-8341 (Ext. 5144)  
**Telefax:** +81-3-3211-3047  
**Telex:**  
**Email:** [pmo@climar.kishou.go.jp](mailto:pmo@climar.kishou.go.jp)

**Main Port: Yokohama  
Ports or area serviced: Yokohama**

Hideyuki NAKANE  
Port Meteorological OfficerYokohama Local Yokohama  
Local Meteorological Office  
99, Yamate-cho, Naka-ku,  
Yokohama 231-0862  
Japan

**Updated:** 06/05/2019  
**Telephone:** +81-45-621-1991  
**Telefax:** +81-45-622-3520  
**Telex:**  
**Email:** [pmo@climar.kishou.go.jp](mailto:pmo@climar.kishou.go.jp)

## KENYA

**Main Port: Mombasa;**  
**Ports or area serviced: Mombasa-Kilindini**

---

Mr. Joseph Odhiambo Amollo  
Chief Meteorologist/Marine Meteorological information  
provider  
Box 98512-80100  
Mombasa  
KENYA

**Updated:** 19/06/2018  
**Telephone:** +254 721 390 697  
**Telefax:** --  
**Telex:**  
**Email:** [Joseph\\_amollo@yahoo.co.uk](mailto:Joseph_amollo@yahoo.co.uk)

## MALAYSIA

### Main Port: Port Bintulu

Mohd Azlan MO'MIN  
Port Meteorological Officer  
Lapangan Terbang Bintulu,  
97000 Bintulu, Sarawak,  
Malaysia

**Updated:** 28/05/2018  
**Telephone:** +6086318193  
**Telefax:** +6086310213  
**Telex:**  
**Email:** [mohdazlan@met.gov.my](mailto:mohdazlan@met.gov.my)

### Main Port: Port Klang

Panir Chelvan A/L G. KOTHANDAPANY  
Port Meteorological Officer  
Jalan Sultan, 46667 Petaling Jaya  
Selangor,  
Malaysia

**Updated:** 28/05/2018  
**Telephone:** +60379678084  
**Telefax:** +60379549326  
**Telex:**  
**Email:** [chelvan@met.gov.my](mailto:chelvan@met.gov.my)

### Main Port: Port Kota Kinabalu

Mohamadsha Ebung  
Port Meteorological Officer  
Tingkat 7, Wisma Dang Bandang, 88995 Kota Kinabalu  
Sabah,  
Malaysia

**Updated:** 28/05/2018  
**Telephone:** +6088413691  
**Telefax:** +6088413696  
**Telex:**  
**Email:** [mse@met.gov.my](mailto:mse@met.gov.my)

## MAURITIUS

### Mauritius

Mr. S. CAHOOLESSUR (Liaison Office, Mauritius)  
Meteorologist  
Mauritius Meteorological Services  
Mauritius

**Updated:** 10/11/2011  
**Telephone:** 230 686 1031,32  
**Telefax:** 230 6861033  
**Telex:**  
**Email:** [meteo@intnet.mu](mailto:meteo@intnet.mu)

## MOROCCO

### Casablanca

Mr. Hassan AMANE  
Meteorological Officer  
Station Météorologique  
JETEE MY.YOUSSEF  
PORT DE CASABLANCA  
Morocco

**Updated:** 10/11/2011  
**Telephone:** +212 5 22 450277  
**Telefax:** +212 5 22 450301  
**Telex:**  
**Email:** [ha.amane@yahoo.fr](mailto:ha.amane@yahoo.fr)

### Direction de la Météorologie Nationale(service marine)

Mr Hassan BOUKSIM (Service marine)  
Chief, Marine Meteorology division  
Direction de la Météorologie Nationale  
B.P. 8106  
OASIS-CASABLANCA  
Casablanca 20103  
Morocco

**Updated:** 10/11/2011  
**Telephone:** +212 522 65 49 20  
**Telefax:** +212 522 9136 98  
**Telex:**  
**Email:** [h.bouksim@gmail.com](mailto:h.bouksim@gmail.com)

### Mohammedia

Mr. Jamal BAHRI  
Meteorological Officer  
Station Météorologique  
PORT DE MOHAMMEDIA  
B.P 11  
Morocco

**Updated:** 10/11/2011  
**Telephone:** +212 5 23 304128  
**Telefax:** +212 5 23 304521  
**Telex:**  
**Email:** [jamalemarin@live.fr](mailto:jamalemarin@live.fr)

## NETHERLANDS

**Main Port: All ports in the Netherlands**

**Ports or area serviced: All ports in the Netherlands**

**Main Port: Antwerpen**

**Ports or area serviced: Gent / Zeebrugge**

---

Mr. D. Napoles Soto  
Port Meteorological Officer  
P.O. Box 201  
3730 AE de Bilt  
The Netherlands

**Updated:** 06/05/2019

**Telephone:** All ports in the Netherlands: +31  
621587152

Antwerpen: +31 30 2206678 /+31 6  
55457546

**Telefax:**

**Telex:**

**Email:** [Pmo.office@knmi.nl](mailto:Pmo.office@knmi.nl)

Mr. René J. Rozeboom  
Port Meteorological Officer  
P.O. Box 201  
3730 AE de Bilt  
The Netherlands

**Updated:** 06/05/2019

**Telephone:** +31 30 2206678  
+31 6 55457546

**Telefax:** --

**Telex:**

**Email:** [Pmo.office@knmi.nl](mailto:Pmo.office@knmi.nl)



## NEW ZEALAND

**Main Port: Wellington / CentrePort;**

**Ports or area serviced: All Ports in New Zealand if necessary and possible.**

---

Mr. Ross Bannister  
Network Operations Port Meteorological Officer  
PO Box 722  
Wellington 6140  
New Zealand

**Updated:** 06/05/2019

**Telephone:** +64 4 4700 789

**Telefax:** +64 4 4735 231

**Telex:**

**Email:** [Ross.Bannister@metSERVICE.com](mailto:Ross.Bannister@metSERVICE.com)

## NORWAY

### Bergen

Mr Jan MOSTROM  
Senior executive meteorological officer  
Norwegian Meteorological Institute, Forecasting Division  
of Western Norway  
Bergen Lufthavn Flesland  
Postboks 34 Bergen lufthavn  
5869 Bergen  
Bergen  
Norway

**Updated:** 10/11/2011  
**Telephone:** +47 55 99 82 04  
**Telefax:** --  
**Telex:**  
**Email:** [jan.mostrom@met.no](mailto:jan.mostrom@met.no)

## PAKISTAN

### Karachi

Mr. Akhlaq Jameel  
Senior Meteorologist  
Main Met Office  
Room No. 3106  
Jinnah International Airport  
Karachi-75200  
Pakistan

**Updated:** 14/01/2016

**Telephone:** +92 21 99071300, 99071302, 99071322

**Telefax:** +92 21 99248282

**Telex:**

**Email:** [srmetmojiap@outlook.com](mailto:srmetmojiap@outlook.com)  
[akhlaq@hotmail.com](mailto:akhlaq@hotmail.com)

Details of main port serviced by PMO: Karachi Port Trust, KPT Head Office Karachi (<http://kpt.gov.pk/>)  
Details of other ports serviced: N/A (yet) may be Gwadar Port in future.

## PERU

### Main Port: Callao;

#### Ports/area serviced: Departamento de Oceanografía – División de Meteorología

Mr. Fernando ALLASI Quispe  
Analista Meteorológico  
Calle Roca N° 118  
Chucuito  
Callao  
Perú

**Updated:** 13/03/2017  
**Telephone:** 0051 1 2078160 ext 6464  
**Telefax:** 0051 1 2078178  
**Telex:**  
**Email:** [pronostico@dhn.mil.pe](mailto:pronostico@dhn.mil.pe)

Mr. Giacomo MOROTE Somontes  
Jefe de la División de Meteorología  
Calle Roca N° 118  
Chucuito  
Callao  
Perú

**Updated:** 24/04/2018  
**Telephone:** 0051 1 2078160 Ext 6439  
**Telefax:** 0051 1 2078178  
**Telex:**  
**Email:** [gmorote@dhn.mil.pe](mailto:gmorote@dhn.mil.pe)

Mr. Oscar MARTINEZ Alania  
Hidrógrafo  
Calle Roca N° 118,  
Chucuito,  
Callao  
Perú

**Updated:** 13/03/2017  
**Telephone:** 0051 1 2078160 ext 6464  
**Telefax:** 0051 1 2078178  
**Telex:**  
**Email:** [omartinez@dhn.mil.pe](mailto:omartinez@dhn.mil.pe)

### Main Port: Chimbote;

#### Ports/area serviced: Capitanía del Puerto de Paita – Oficina Hidrográfica

Observador Hidro-oceanográfico  
Encargado de la Oficina Hidrográfica  
Av. La Caleta S/N  
Perú

**Updated:** 13/03/2017  
**Telephone:** Landline: 0051 043321955 ext 6874  
Mobile: 0051 1 988458508  
**Telefax:**  
**Telex:**  
**Email:** [ochimbote@dhn.mil.pe](mailto:ochimbote@dhn.mil.pe)

### Main Port: Mollendo;

#### Ports/area serviced: Capitanía del Puerto de Paita – Oficina Hidrográfica

Observador Hidro-oceanográfico  
Encargado de la Oficina Hidrográfica  
Pasaje Zela N° 100  
Perú

**Updated:** 13/03/2017  
**Telephone:** Landline: 0051 054532963 ext 6886  
Mobile: 0051 1 998091594  
**Telefax:**  
**Telex:**  
**Email:** [omollendo@dhn.mil.pe](mailto:omollendo@dhn.mil.pe)

### Main Port: Paita;

#### Ports/area serviced: Capitanía del Puerto de Paita – Oficina Hidrográfica

Observador Hidro-oceanográfico  
Encargado de la Oficina Hidrográfica  
Plaza de Armas N° 100  
Paita  
Perú

**Updated:** 13/03/2017  
**Telephone:** Landline: 0051 073213313 ext 6868  
Mobile: 0051 1 996191835  
**Telefax:** 0051 073299990  
**Telex:**  
**Email:** [opaita@dhn.mil.pe](mailto:opaita@dhn.mil.pe)

**Main Port: Pisco;****Ports/area serviced: Capitanía del Puerto de Paita – Oficina Hidrográfica**

---

Observador Hidro-oceanográfico  
Encargado de la Oficina Hidrográfica  
Km. 18.5 Carretera Parcas - Frente Condominio Nuevo  
Paracas  
Perú

**Updated:** 13/03/2017  
**Telephone:** Landline: 0051 056532246 ext 6882  
Mobile: 0051 1 996190355  
**Telefax:**  
**Telex:**  
**Email:** [opisco@dhn.mil.pe](mailto:opisco@dhn.mil.pe)

**Main Port: Salaverry;****Ports/area serviced: Capitanía del Puerto de Paita – Oficina Hidrográfica**

---

Observador Hidro-oceanográfico  
Encargado de la Oficina Hidrográfica  
Av La Marina S/N  
Perú

**Updated:** 13/03/2017  
**Telephone:** Landline: 0051 044 437346 ext 6872  
Mobile: 0051 1 996191829  
**Telefax:**  
**Telex:**  
**Email:** [osalaverry@dhn.mil.pe](mailto:osalaverry@dhn.mil.pe)

**Main Port: San Juan;****Ports/area serviced: Capitanía del Puerto de Paita – Oficina Hidrográfica**

---

Observador Hidro-oceanográfico  
Encargado de la Oficina Hidrográfica  
Av. Los Incas S/N  
Perú

**Updated:** 13/03/2017  
**Telephone:** Landline: 0051 056525703 ext 6884  
Mobile: 0051 1 995902715  
**Telefax:**  
**Telex:**  
**Email:** [osanjuan@dhn.mil.pe](mailto:osanjuan@dhn.mil.pe)

**Main Port: Talara;****Ports/area serviced: Capitanía del Puerto de Paita – Oficina Hidrográfica**

---

Observador Hidro-oceanográfico  
Encargado de la Oficina Hidrográfica  
Av Almirante Grau S/N  
Perú

**Updated:** 13/03/2017  
**Telephone:** Landline: 0051 073382175 ext 6866  
Mobile: 0051 1 996190388  
**Telefax:**  
**Telex:**  
**Email:** [otalara@dhn.mil.pe](mailto:otalara@dhn.mil.pe)

## PHILIPPINES

### Cagayan de Oro City

Mr Leo RODRIGUEZ  
PMO  
PAGASA Complex Station  
CAGAYAN DE ORO CITY 9000  
Misamis Occidental  
Philippines

**Updated:** 10/11/2011  
**Telephone:** +63-8822 722 760  
**Telefax:** --  
**Telex:**  
**Email:**

### Davao City

Mr Edwin FLORES  
PMO  
PAGASA Complex Station  
Bangoy Airport  
DAVAO CITY 8000  
Philippines

**Updated:** 10/11/2011  
**Telephone:** +63-82 234 08 90  
**Telefax:** --  
**Telex:**  
**Email:**

### Dumaguete City

Mr Edsin CULI  
PMO  
PAGASA Complex Station  
Dumaguete City Airport  
DUMAGUETE CITY, Negros Oriental 6200  
Philippines

**Updated:** 10/11/2011  
**Telephone:** +63-35 225 28 04  
**Telefax:** --  
**Telex:**  
**Email:**

### Legaspi City

Mr Othello ESTAREJA  
PMO  
PAGASA Complex Station  
LEGASPI CITY 4500  
Philippines

**Updated:** 10/11/2011  
**Telephone:** +63-5221 245 5241  
**Telefax:** --  
**Telex:**  
**Email:**

### Mactan City

Mr Roberto ENTRADA  
PMO  
PAGASA Complex Station  
Mactan Airport  
Mactan City, CEBU 6016  
Philippines

**Updated:** 10/11/2011  
**Telephone:** +63-32 495 48 44  
**Telefax:** --  
**Telex:**  
**Email:**

### Manila South Harbor

Mr Benjamin TADO  
PMO  
PAGASA Port Meteorological Office  
PPATC Building, Gate 4  
South Harbour, MANILA 1018  
Philippines

**Updated:** 10/11/2011  
**Telephone:** +63-22 527 03 16  
**Telefax:** --  
**Telex:**  
**Email:**

## POLAND

### Gdynia & Gdansk

Mr Józef KOWALEWSKI  
Port Meteorological Officer  
Institute of Meteorology and Water Management  
Institute of Meteorology and Water Management  
ul. Waszyngtona 42  
PL-81-342 Gdynia  
Poland

**Updated:** 10/11/2011

**Telephone:** +48 58 6288151

**Telefax:** +48 58 6288163

**Telex:**

**Email:** [meteo.gdynia@imgw.pl](mailto:meteo.gdynia@imgw.pl)

## REPUBLIC OF KOREA

### Main Port: Busan, Masan, Ulsan, Okpo, Jinhae, Tongyeong, Gohyeon Hadong, Samcheonpo

Mr. Ha Tae Ryong  
PMO  
117 Chungnyeol-daero, Dongnae-gu, Busan  
Republic of Korea

**Updated:** 06/05/2019  
**Telephone:** +82 51 718 0556  
**Telefax:** +82 51 558 9502  
**Telex:**  
**Email:** [psmar@korea.kr](mailto:psmar@korea.kr)

### Main Port: Dangjin, Daesan, Boryeong, Taean

Mr. Kim Jeong Soo  
PMO  
383 Yoo Seong-gu, Daejeon  
Republic of Korea

**Updated:** 06/05/2019  
**Telephone:** +82 42 862 0367  
**Telefax:** +82 42 862 1672  
**Telex:**  
**Email:** [nalja16@korea.kr](mailto:nalja16@korea.kr)

Mr. Ji-Hyun Jung  
PMO  
383 Yoo Seong-gu, Daejeon  
Republic of Korea

**Updated:** 06/05/2019  
**Telephone:** +82 42 862 0367  
**Telefax:** +82 42 862 1672  
**Telex:**  
**Email:** [nalja16@korea.kr](mailto:nalja16@korea.kr)

### Main Port: Gunsan

Mr. Choi, Jong Eob  
PMO  
25 Sanga Village Road, Deokjin-gu, Jeonju  
Republic of Korea

**Updated:** 06/05/2019  
**Telephone:** +82 63 249 3210  
**Telefax:** +82 63 282 0372  
**Telex:**  
**Email:** [cjecje@korea.kr](mailto:cjecje@korea.kr)

Mr. Lee Jae Won  
PMO  
25 Sanga Village Road, Deokjin-gu, Jeonju  
Republic of Korea

**Updated:** 06/05/2019  
**Telephone:** +82 63 249 3210  
**Telefax:** +82 63 282 0372  
**Telex:**  
**Email:** [cjecje@korea.kr](mailto:cjecje@korea.kr)

### Main Port: Incheon, Pyeongtaek, Youngheung

Mr. Kim Se-jun  
PMO  
733 Gwonseon-ro, Paldal-gu, Suwon  
Republic of Korea

**Updated:** 06/05/2019  
**Telephone:** +82 70 7850 8470  
**Telefax:** +82 31 291 0366  
**Telex:**  
**Email:** [Sm\\_pol@korea.kr](mailto:Sm_pol@korea.kr)

Mr. Kim Do Soo  
PMO  
733 Gwonseon-ro, Paldal-gu, Suwon  
Republic of Korea

**Updated:** 06/05/2019  
**Telephone:** +82 70 7850 8470  
**Telefax:** +82 31 291 0366  
**Telex:**  
**Email:** [Sm\\_pol@korea.kr](mailto:Sm_pol@korea.kr)



**Main Port: Jeju, Seogwipo**

Mr. Lee Dae Hyun  
PMO  
32, Mandeok-ro, Jeju-do  
Republic of Korea

**Updated:** 06/05/2019  
**Telephone:** +82 64 756 0364  
**Telefax:** +82 64 757 0364  
**Telex:**  
**Email:** [jjobs@korea.kr](mailto:jjobs@korea.kr)

Mr. Yang Jin Ho  
PMO  
32, Mandeok-ro, Jeju-do  
Republic of Korea

**Updated:** 06/05/2019  
**Telephone:** +82 64 756 0364  
**Telefax:** +82 64 757 0364  
**Telex:**  
**Email:** [jjobs@korea.kr](mailto:jjobs@korea.kr)

**Main Port: Mokpo, Yeosu, Gwangyang**

---

Mr. Kim Min Ho  
PMO  
71 Seoam-daero, Buk-gu, Gwangju  
Republic of Korea

**Updated:** 06/05/2019  
**Telephone:** +82 62 720 0554  
**Telefax:** +82 62 531 4207  
**Telex:**  
**Email:** [hyscoco83@korea.kr](mailto:hyscoco83@korea.kr)

Mr. Heo Yong Seok  
PMO  
71 Seoam-daero, Buk-gu, Gwangju  
Republic of Korea

**Updated:** 06/05/2019  
**Telephone:** +82 62 720 0554  
**Telefax:** +82 62 531 4207  
**Telex:**  
**Email:** [hyscoco83@korea.kr](mailto:hyscoco83@korea.kr)

**Main Port: Observation Policy Division**

Mr. Kim Nam hee  
PMO  
61, Yeouidaebang-ro 16-gil, Dongjak-gu  
Seoul 156-720  
Republic of Korea

**Updated:** 06/05/2019  
**Telephone:** +82 2 2181 0752  
**Telefax:** +82 2 841 7045  
**Telex:**  
**Email:** [kimyu@korea.kr](mailto:kimyu@korea.kr)

Mr. Kim Yong Up  
PMO  
61, Yeouidaebang-ro 16-gil, Dongjak-gu  
Seoul 156-720  
Republic of Korea

**Updated:** 06/05/2019  
**Telephone:** +82 2 2181 0752  
**Telefax:** +82 2 841 7045  
**Telex:**  
**Email:** [kimyu@korea.kr](mailto:kimyu@korea.kr)

**Main Port: Okgye and moko, East Sea.**

---

Mr. Jin Youl Kim  
PMO  
130 Science Park in Sacheon-myeon, Gangneung,  
Gangwon-do  
Republic of Korea

**Updated:** 06/05/2019  
**Telephone:** +82 33 650 0325  
**Telefax:** +82 33 650 0439  
**Telex:**  
**Email:** [Wizard74@korea.kr](mailto:Wizard74@korea.kr)

Mr. Jung Kwang Woo  
PMO  
130 Science Park in Sacheon-myeon, Gangneung,  
Gangwon-do  
Republic of Korea

**Updated:** 06/05/2019  
**Telephone:** +82 33 650 0325  
**Telefax:** +82 33 650 0439  
**Telex:**  
**Email:** [Wizard74@korea.kr](mailto:Wizard74@korea.kr)

**Main Port: Pohang**

---

Mr. Kim Young-Hwan  
PMO  
Daegu Metropolitan City's Hyodong-ro 2-gil 10  
Republic of Korea

**Updated:** 06/05/2019  
**Telephone:** +82 53 282 0144  
**Telefax:** +82 53 952 0368  
**Telex:**  
**Email:** [kyhwan12@korea.kr](mailto:kyhwan12@korea.kr)

Mr. Hwang Jin-Sang  
PMO  
Daegu Metropolitan City's Hyodong-ro 2-gil 10  
Republic of Korea

**Updated:** 06/05/2019  
**Telephone:** +82 53 282 0144  
**Telefax:** +82 53 952 0368  
**Telex:**  
**Email:** [kyhwan12@korea.kr](mailto:kyhwan12@korea.kr)

## ROMANIA

### Constantza

Mrs. Mariana FRATILA  
Head of Forecast Division Dobrogea  
Dobrogea Regional Meteorological Centre  
National Meteorological Administration of Romania  
Blvd. Mamaia, nr. 300  
900851, Constanta  
Romania

**Updated:** 04/04/2013  
**Telephone:** +40 727 328 125  
**Telefax:** --  
**Telex:**  
**Email:** [mariana.fratila@gmail.com](mailto:mariana.fratila@gmail.com)

## RUSSIAN FEDERATION

### Arkhangelsk

Mr. Antonov DENIS  
Meteorologist  
Russian Federation

**Updated:** 02/04/2013  
**Telephone:** --  
**Telefax:** --  
**Telex:** --  
**Email:** [esimo@arh.ru](mailto:esimo@arh.ru)  
[sevmgmc@arh.ru](mailto:sevmgmc@arh.ru)

Mr. Valentina VARLACHEVA  
Meteorologist  
Russian Federation

**Updated:** 02/04/2013  
**Telephone:** --  
**Telefax:** --  
**Telex:** --  
**Email:** [esimo@arh.ru](mailto:esimo@arh.ru)  
[sevmgmc@arh.ru](mailto:sevmgmc@arh.ru)

### Kholmsk (Juzhnosakhalinsk)

Ms. Tamara ZINOVA  
PMO  
Russian Federation

**Updated:** 02/04/2013  
**Telephone:** --  
**Telefax:** --  
**Telex:** --  
**Email:** [morot@sakhugms.ru](mailto:morot@sakhugms.ru)

### Murmansk

Mr. Nadezhda HVOROVA  
PMO  
Russian Federation

**Updated:** 02/04/2013  
**Telephone:** --  
**Telefax:** --  
**Telex:** --  
**Email:** [inspector@kolgimet.ru](mailto:inspector@kolgimet.ru)

Ms. Mary CHEMOGANSKAYA  
PMO  
Russian Federation

**Updated:** 02/04/2013  
**Telephone:** --  
**Telefax:** --  
**Telex:** --  
**Email:** [inspector@kolgimet.ru](mailto:inspector@kolgimet.ru)

Ms Irina PAKHOMOVA  
PMO Group Chief  
Russian Federation

**Updated:** 02/04/2013  
**Telephone:** --  
**Telefax:** --  
**Telex:** --  
**Email:** [inspector@kolgimet.ru](mailto:inspector@kolgimet.ru)

Ms. Marina SHCHURKOVA  
PMO  
Russian Federation

**Updated:** 02/04/2013  
**Telephone:** --  
**Telefax:** --  
**Telex:** --  
**Email:** [inspector@kolgimet.ru](mailto:inspector@kolgimet.ru)

**Petropavlovsk-Kamchatsky**

Ms. Elena KRASNOSHTANOVA  
PMO  
Russian Federation

**Updated:** 02/04/2013  
**Telephone:** --  
**Telefax:** --  
**Telex:** --  
**Email:** [ogm@kammeteo.ru](mailto:ogm@kammeteo.ru)

**Saint-Petersburg**

Ms. Elena Parikova  
PMO  
Russian Federation

**Updated:** 02/04/2013  
**Telephone:** --  
**Telefax:** --  
**Telex:** --  
**Email:** [vos@meteo.nw.ru](mailto:vos@meteo.nw.ru)

**Vladivostok**

Ms. Irina Mudrakova  
PMO  
Russian Federation

**Updated:** 02/04/2013  
**Telephone:** --  
**Telefax:** --  
**Telex:** --  
**Email:** [shipocean@primpogoda.ru](mailto:shipocean@primpogoda.ru)

Ms. Ludmila DEGA  
PMO  
Russian Federation

**Updated:** 02/04/2013  
**Telephone:** --  
**Telefax:** --  
**Telex:** --  
**Email:** [shipocean@primpogoda.ru](mailto:shipocean@primpogoda.ru)

**Jeddah**

Mr Badee Khayyat  
Presidency of Meteorology and Environment  
P.O. Box 1358  
JEDDAH 21431  
Saudi Arabia

**Updated:** 23/04/2013  
**Telephone:** +96626536276  
**Telefax:** --  
**Telex:**  
**Email:** [badee\\_k@hotmail.com](mailto:badee_k@hotmail.com)  
[bkhayyat@pme.gov.sa](mailto:bkhayyat@pme.gov.sa)

## SINGAPORE

### Singapore

Ong Chin HONG  
Port Meteorological Officer  
PO Box 8  
Singapore Changi Airport Post Office  
Singapore 918141

**Updated:** 16/03/2017  
**Telephone:** +65 6488 1843  
**Telefax:** +65 6289 9381  
**Telex:**  
**Email:** [Ong\\_Chin\\_Hong@nea.gov.sg](mailto:Ong_Chin_Hong@nea.gov.sg)

## SOUTH AFRICA

**Main Port: Port of Cape Town, South Africa**

**Ports/area serviced: Port of Cape Town, Simon's Town Naval Base, Port of Durban, Port Elizabeth**

---

Mardené de Villiers

PMO

South African Weather Service

Cape Town Weather Office

P.O.Box 21

Cape Town International Airport

7525

South Africa

**Updated:** 06/05/2019

**Telephone:** +27 21 935 5700

**Telefax:** +27 21 934 3296

**Telex:**

**Email:** [Mardene.devilliers@weathersa.co.za](mailto:Mardene.devilliers@weathersa.co.za)



## SRI LANKA

### Colombo

Mr Ajith WEERAWARDENA  
Meteorologist in Charge  
Department of Meteorology Sri Lanka  
83, Bauddhaloka  
Mawatha  
Colombo 07  
Sri Lanka

**Updated:** 10/11/2011  
**Telephone:** +94-1 1268 2661  
**Telefax:** --  
**Telex:**  
**Email:** [ajithweer@yahoo.com](mailto:ajithweer@yahoo.com)

## SUDAN

**Main Port: Port Sudan**

**Ports or area serviced: Port Sudan area (offshore – coastal)**

---

Mr. Hussein Babiker Gadalla  
Head of Marine Forecast Section  
Box: 574 Khartoum Sudan – Sudan meteorological office

**Updated:** 06/05/2019

**Telephone:** +249992589144

**Telefax:**

**Telex:**

**Email:** [damer1414@yahoo.com](mailto:damer1414@yahoo.com)

## SWEDEN

**Main Port: Gothenburg**  
**Main port is located in Gothenburg**  
**Office located in Norrköping**

---

Mr Johan SVALMARK  
SMHI  
SE-601 76 Norrköping  
Sweden

**Updated:** 06/05/2019  
**Telephone:** + 46 11 4958488  
**Telefax:** + 46 11 4958001  
**Telex:**  
**Email:** [Johan.Svalmark@smhi.se](mailto:Johan.Svalmark@smhi.se)

**Dar es Salaam**

Mr. Allen B. MPETA (PMO, Dar es Salaam)  
Senior Met. Officer  
Tanzania Meteorological Agency, Zanzibar Office Division  
P.O. BOX 3056  
DAR ES SALAAM  
Tanzania

**Updated:** 10/11/2011

**Telephone:** +255 22 2134471

**Telefax:** +255 22 2460735  
+255 22 24607600

**Telex:**

**Email:** [allen\\_mpet@yaho.co.uk](mailto:allen_mpet@yaho.co.uk)

## THAILAND

### Port/Office: Bangkok port

Mr. Wittaya Rugkid  
Marine Meteorological Officer  
4353 Sukhumvit road, Bangna,  
Bangkok 10260  
Thailand

**Updated:** 06/05/2019  
**Telephone:** 66 2 3994561  
**Telefax:** 66 2 3669375  
**Telex:**  
**Email:** [Wittamet17@hotmail.com](mailto:Wittamet17@hotmail.com)

### Port/Office: Laem Chabang port

Mr. Rojsak Phoophanphin  
Marine Meteorological Officer  
4353 Sukhumvit road, Bangna,  
Bangkok 10260  
Thailand

**Updated:** 06/05/2019  
**Telephone:** 66 2 3994561  
**Telefax:** 66 2 3669375  
**Telex:**  
**Email:** [rossak0110@hotmail.com](mailto:rossak0110@hotmail.com)

## UGANDA

### Meteorologist

Mr Kituusa MOHAMMED  
Meteorologist  
Department of Meteorology, Ministry of Water and  
Environment  
P.O.BOX 7025  
Kampala  
Uganda

**Updated:** 10/11/2011

**Telephone:** --

**Telefax:** --

**Telex:**

**Email:** [kituusa\\_rashid@yahoo.co.uk](mailto:kituusa_rashid@yahoo.co.uk)

## UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

### Main Port: UK - SOUTH EAST ENGLAND

Ports or area serviced: See notes

Mr. Phil Johnson (PMO London)  
Port Meteorological Officer  
Met Office, Wattisham Airfield,  
Ipswich,  
Suffolk, IP7 7RA  
United Kingdom

**Updated:** 06/05/2019  
**Telephone:** +44 (0) 7753 880453  
**Telefax:** --  
**Telex:**  
**Email:** [Phil.johnson@metoffice.gov.uk](mailto:Phil.johnson@metoffice.gov.uk)

Ports or area Serviced: Supporting PMOSE; responsible for ports on the southeast English coast, including Harwich, Felixstowe, Lowestoft, Great Yarmouth, Tilbury, Dover and Thames Medway

### Main Port: UK NORTH ENGLAND

Ports or area serviced: See notes

Mr Matthew Strahan (PMO Liverpool)  
Port Meteorological Officer  
Met Office,  
Unit 3 Holland Business Park, Spa Lane,  
Lathom, L40 6LN  
United Kingdom

**Updated:** 06/05/2019  
**Telephone:** +44 (0) 1695 726467  
**Telefax:** --  
**Telex:**  
**Email:** [Pmo.liverpool@metoffice.gov.uk](mailto:Pmo.liverpool@metoffice.gov.uk)

Ports of area Serviced: Responsible for the east and west coasts of northern England and ports on the north Welsh coast, including Hull, Immingham, Liverpool, Birkenhead, Heysham, Holyhead, Barrow, Tees and Tyne

### Main Port: UK NORTHERN IRELAND

Ports or area serviced: See notes

Mr. Jim McGreevy (PMO Belfast)  
Port Meteorological Officer  
Met Office,  
FSE Service Centre,  
Cargo Complex,  
Belfast International Airport, Belfast,  
County Antrim,  
Northern Ireland, BT29 4AB  
United Kingdom

**Updated:** 06/05/2019  
**Telephone:** +44 (0) 2894 417075  
**Telefax:**  
**Telex:**  
**Email:** [Pmobelfast@metoffice.gov.uk](mailto:Pmobelfast@metoffice.gov.uk)

Ports or area serviced: Responsible for automated VOS at Northern Ireland ports including Belfast

### Main Port: UK SCOTLAND

Ports or area serviced: See notes

Ms. Kirsten Deans (PMO Scotland)  
Port Meteorological Officer  
Met Office,  
Saughton House,  
Broomhouse Drive,  
Edinburgh, EH11 3XQ,  
United Kingdom

**Updated:** 06/05/2019  
**Telephone:** +44 (0) 131 528 7318  
**Telefax:** +44 (0) 131 528 7345  
**Telex:**  
**Email:** [Pmoscotland@metoffice.gov.uk](mailto:Pmoscotland@metoffice.gov.uk)

Ports or area Serviced: Responsible for all ports in Scotland including Glasgow, Edinburgh, Dundee, Aberdeen, Oban and the Scottish islands

### Main Port: UK SOUTH EAST ENGLAND

Ports or area serviced: See notes

Mr Steve Bond (PMO SE)  
Port Meteorological Officer  
Met Office, Room 342/11, National Oceanography Centre,  
University of Southampton  
Waterfront Campus, European Way,  
Southampton, SO14 3ZH  
United Kingdom

**Updated:** 06/05/2019  
**Telephone:** +44 (0) 2380 638339  
**Telefax:** --  
**Telex:**  
**Email:** [Pmosouthampton@metoffice.gov.uk](mailto:Pmosouthampton@metoffice.gov.uk)

Ports or area serviced: Responsible for all ports on the south English coast, including Southampton, Portsmouth, Felixstowe, Great Yarmouth, Lowestoft, Tilbury, Dover and Thames Medway (supported by PMO London)

**Main Port: UK SOUTH WEST ENGLAND****Ports or area serviced: See notes**

Mr. David Knott (PMO SW)  
Port Meteorological Officer  
Met Office, Fitzroy Road,  
Devon,  
Exeter EX1 3PB  
United Kingdom

**Updated:** 06/05/2019  
**Telephone:** +44 (0) 1392 885617  
**Telefax:**  
**Telex:**  
**Email:** [David.knott@metoffice.gov.uk](mailto:David.knott@metoffice.gov.uk)

Ports or area serviced: Responsible for all ports on the southwest English coast including Falmouth, Avonmouth, Portbury & Plymouth, as well as providing cover for PMOSE at Southampton.  
Supported by PMO South Wales to cover south Wales ports of Cardiff, Swansea, Newport, Port Talbot and Milford Haven

**Main Port: WALES****Ports or area serviced: See notes**

Mr. Stuart Herridge (PMO South Wales)  
Port Meteorological Officer  
Met Office,  
Temple Court,  
Cathedral Road  
Cardiff, CF11 9HA  
United Kingdom

**Updated:** 06/05/2019  
**Telephone:** +44 (0) 2920 786578  
**Telefax:**  
**Telex:**  
**Email:** [Pmocardiff@metoffice.gov.uk](mailto:Pmocardiff@metoffice.gov.uk)

Ports or area serviced: Responsible for all ports on south Wales coast including Milford Haven and Port Talbot, in support of PMOSW



## UNITED STATES OF AMERICA

### Anchorage, AK

Mr. Larry Hubble, Focal Point  
National Weather Service Alaska Region  
222 West 7th Avenue #23  
Anchorage, AK 99513-7575

**Updated:** 28/03/2017  
**Telephone:** +2 907-271-5135  
**Telefax:** +1 907-271-3711  
**Telex:**  
**Email:** [pmoanc@noaa.gov](mailto:pmoanc@noaa.gov)  
[vospmo@noaa.gov](mailto:vospmo@noaa.gov)

### Baltimore, MD

Mr. Lori Evans  
PMO  
National Weather Service, NOAA  
PO Box 3667  
Frederick, MD 21701

**Updated:** 28/03/2017  
**Telephone:** +1 443-642-0760  
Cell: 410-633-4713  
**Telefax:** --  
**Telex:**  
**Email:** [pmobal@noaa.gov](mailto:pmobal@noaa.gov)

### Charleston, SC

Mr. Tim Kenefick, PMO  
NOAA Coastal Services Center  
2234 South Hobson Avenue  
Charleston, SC 29405-2413

**Updated:** 28/03/2017  
**Telephone:** +1 843-709-0102  
**Telefax:** +1 843-740-1224  
**Telex:**  
**Email:** [pmochs@noaa.gov](mailto:pmochs@noaa.gov)  
[vospmo@noaa.gov](mailto:vospmo@noaa.gov)

### Duluth, MN / Great Lakes

Mr. Ron Williams, PMO  
National Weather Service, NOAA  
5027 Miller trunk Hwy  
Duluth, MN 55811-1442

**Updated:** 28/03/2017  
**Telephone:** +1 218-729-0651 x 371  
**Telefax:** +1 218-729-0690  
**Telex:**  
**Email:** [pmoglakes@noaa.gov](mailto:pmoglakes@noaa.gov)  
[vospmo@noaa.gov](mailto:vospmo@noaa.gov)

### Fort Lauderdale, FL

Mr. David Dellinger, PMO  
National Weather Service/NOAA  
2550 Eisenhower Blvd., Suite 312  
Fort Lauderdale FL 33316

**Updated:** 28/03/2017  
**Telephone:** +1 954-463-4271  
**Telefax:** +1 305-229-4553  
**Telex:**  
**Email:** [pmomia@noaa.gov](mailto:pmomia@noaa.gov)  
[vospmo@noaa.gov](mailto:vospmo@noaa.gov)

### Honolulu, HI

Mr. Derek LeeLoy, PMO  
Ocean Services Program Coordinator  
National Weather Service  
Pacific Region HQ  
1845 Wasp Blvd. Bldg 176  
Honolulu HI 96818

**Updated:** 28/03/2017  
**Telephone:** +1 808-725-6016  
Alt number: David Meek/808-725-6015  
**Telefax:** +1 808-725-6005  
**Telex:**  
**Email:** [pmohon@noaa.gov](mailto:pmohon@noaa.gov)  
[vospmo@noaa.gov](mailto:vospmo@noaa.gov)

**Houston, TX**

Mr. Chris Fakes, PMO  
National Weather Service, NOAA  
1353 FM646 Suite 202  
Dickinson, TX 77539

**Updated:** 28/03/2017  
**Telephone:** +1 281-534-2640 ex 277  
**Telefax:** +1 281-534-4308  
**Telex:**  
**Email:** [pmohou@noaa.gov](mailto:pmohou@noaa.gov)  
[vospmo@noaa.gov](mailto:vospmo@noaa.gov)

**Jacksonville, FL**

Mr. Robert Niemeyer, PMO  
National Weather Service, NOAA  
13701 Fang Road  
Jacksonville, FL 32218-7933

**Updated:** 28/03/2017  
**Telephone:** +1 904-607-3219  
**Telefax:** +1 904-741-0078  
**Telex:**  
**Email:** [pmojax@noaa.gov](mailto:pmojax@noaa.gov)  
[vospmo@noaa.gov](mailto:vospmo@noaa.gov)

**Kodiak, AK**

Focal Point - VACANT

**Updated:** 28/03/2017  
**Telephone:** --  
**Telefax:** --  
**Telex:**  
**Email:** [pmokdk@noaa.gov](mailto:pmokdk@noaa.gov)  
[vospmo@noaa.gov](mailto:vospmo@noaa.gov)

**Long Beach, CA**

Mr. Tim Harris, PMO  
National Weather Service, NOAA  
501 West Ocean Blvd., Room 4480  
Long Beach, CA 90802-4213

**Updated:** 28/03/2017  
**Telephone:** +1 562-980-4090  
**Telefax:**  
**Telex:**  
**Email:** [pmolax@noaa.gov](mailto:pmolax@noaa.gov)  
[vospmo@noaa.gov](mailto:vospmo@noaa.gov)

Reported on board 3/2016

**New Orleans, LA  
Gulf Coast**

Mr. Rusty Albara,  
Port Meteorological Officer  
NWSFO New Orleans/Baton Rouge  
62300 Airport Road  
Slidell, LA 70460

**Updated:** 28/03/2017  
**Telephone:** +1 985-649-0565  
**Telefax:** +1 985-649-2907  
**Telex:**  
**Email:** [pmomasy@noaa.gov](mailto:pmomasy@noaa.gov)  
[vospmo@noaa.gov](mailto:vospmo@noaa.gov)

**New York City, NY**

Mr James LUCIANI, PMO  
National Weather Service, NOAA  
PO Box 366  
Flemington, NJ 08822

**Updated:** 28/03/2017  
**Telephone:** +1 908-217-3477  
**Telefax:** --  
**Telex:**  
**Email:** [pmonyc@noaa.gov](mailto:pmonyc@noaa.gov)  
[vospmo@noaa.gov](mailto:vospmo@noaa.gov)

**Norfolk, VA**

Mr. Peter Gibino, PMO  
National Weather Service, NOAA  
104 Hemlock Court  
Yorktown, VA 23693-4544

**Updated:** 28/03/2017  
**Telephone:** +1 757-717-0897  
**Telefax:** --  
**Telex:**  
**Email:** [pmonor@noaa.gov](mailto:pmonor@noaa.gov)  
[vospmo@noaa.gov](mailto:vospmo@noaa.gov)

**San Francisco Bay area**

---

VACANT, PMO  
National Weather Service, NOAA  
1301 Clay Street, Suite 1190N  
Oakland, CA 94612-5217

**Updated:** 28/03/2017  
**Telephone:** --  
**Telefax:** --  
**Telex:**  
**Email:** [pmoak@noaa.gov](mailto:pmoak@noaa.gov)  
[vospmo@noaa.gov](mailto:vospmo@noaa.gov)

**Seattle, WA**

Mr. Matt Thompson, PMO  
National Weather Service, NOAA  
7600 Sand Point Way, N.E.  
BIN C15700  
Seattle, WA 98115-6349

**Updated:** 28/03/2017  
**Telephone:** +1 206-526-6100  
**Telefax:** +1 206-526-6094  
**Telex:**  
**Email:** [pmosea@noaa.gov](mailto:pmosea@noaa.gov)  
[vospmo@noaa.gov](mailto:vospmo@noaa.gov)

**Valdez, AK**

---

Vacant - Focal Point  
National Weather Service, NOAA  
Box 427  
Valdez, AK 99686-0427

**Updated:** 28/03/2017  
**Telephone:** --  
**Telefax:** --  
**Telex:**  
**Email:** [pmovdz@noaa.gov](mailto:pmovdz@noaa.gov)  
[vospmo@noaa.gov](mailto:vospmo@noaa.gov)



# **PART C**

## **SHIP WEATHER ROUTEING SERVICES**



Meteorological Officer on Duty (MOD)  
9-bis ave, 17 st,  
P.O. Box 5583-1000  
SAN JOSE  
COSTA RICA

**Updated:** 30/06/2006  
**Telephone:** +506 2231837  
+506 2225616 ext. 133  
**Telefax:** +506 2231837  
+506 2578287  
**Telex:**  
**Email:** [oraweb@imn.ac.cr](mailto:oraweb@imn.ac.cr)  
[imn@imn.ac.cr](mailto:imn@imn.ac.cr)

No ship weather routing service.  
Advices for special cases of routing on request 1-day in advance

## CROATIA

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Pomorski Meteoroloski Centar (Marine Meteorological  
Centre)  
Prilaz VIII korpusa 11  
(Post Office Box No. 44)  
SPLIT 58001  
CROATIA

**Updated:** 13/11/1999  
**Telephone:** +385 58 591033  
+385 58 591466  
**Telefax:** --  
**Telex:** 26103 YUMETEOR  
**Email:**

No usual ship weather routeing services.

Advices for special cases of routeing in Adriatic eastern area, according to local conditions, on request



Ms. Helge Wagner  
Operation Manager  
Danish Meteorological Institute  
World Wide Weather Routeing  
Lyngbyvej 100  
2100 Copenhagen OE  
DENMARK

**Updated:** 16/10/2003  
**Telephone:** +45 39 157575  
**Telefax:** +45 39 291212  
**Telex:** 27138  
**Email:** [routeing@dmi.dk](mailto:routeing@dmi.dk)

## ECUADOR

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PTO. AYORA (GALAPAGOS)  
INOCAR-BASE NAVAL SUR  
AV. 25 DE JULIO  
MANTA  
GUAYAQUIL  
ECUADOR

**Updated:** 28/06/2006  
**Telephone:** +593 4 2481300  
**Telefax:** +593 4 2485166  
**Telex:**  
**Email:** [inocar@inocar.mil.ec](mailto:inocar@inocar.mil.ec)

2°N-4°S AND 78°-95°W; Additional route 2°S-90°W - 63°S-58°W; PACIFIC AND ATLANTIC

## GERMANY

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Deutscher Wetterdienst  
Bernhard-Nocht-Straße 76  
Postfach 30 11 90  
HAMBURG 20304  
GERMANY

**Updated:** 28/06/2006  
**Telephone:** +4940 66901811  
**Telefax:** +49 40 6690 1947  
**Telex:** 211 291 hadw d  
**Email:** [routing@dwd.de](mailto:routing@dwd.de)

The German Weather Service in Hamburg offers ship weather routing for all oceans.

## GHANA

---

Principal Meteorological Officer  
Ghana Meteorological Services Department  
P.O. Box 87  
Legon  
GHANA

**Updated:** 13/11/1999  
**Telephone:** +233 2276381  
**Telefax:** --  
**Telex:** DIRMETEO  
**Email:**

No ship weather routing services

Dr. V. Thapliyal  
Deputy Director General of Meteorology  
(Weather Forecasting)  
Pune-5  
Lodhi Road  
New Delhi 110003  
INDIA

**Updated:** 13/11/1999  
**Telephone:** +91 20 5535886  
**Telefax:** 91 20 5533201  
**Telex:** 1457792  
**Email:** [imd pune@pn3.vsnl.in](mailto:imd pune@pn3.vsnl.in)

The Met Office  
Aqaba Port  
Aqaba  
JORDAN

**Updated:** 13/11/1999  
**Telephone:** Aqaba 3608  
**Telefax:** --  
**Telex:** 21908 METAM-JO  
**Email:**

Reyadh A. Al-Saneh  
Meteorological Department  
Civil Aviation  
P.O. Box 17  
Safat  
KUWAIT

**Updated:** 13/11/1999  
**Telephone:** --  
**Telefax:** --  
**Telex:** 23038 CIVAIR  
**Email:**

Mr. Yuriy SHISHKIN  
Head  
Latvian Hydrometeorological Agency  
Marine Forecasting Department  
165, Maskavas Str.  
RIGA LV - 1019  
LATVIA

**Updated:** 13/11/1999  
**Telephone:** +371 7 112038  
**Telefax:** --  
**Telex:** 161151 SHAR LV  
**Email:**



Meteorological Office  
Jinnah International Airport  
Room # 3106  
KARACHI  
PAKISTAN

**Updated:** 12/06/2006  
**Telephone:** +92 21 9248281  
+92 21 467 1322  
+92 21 4671300  
**Telefax:** +92 21 9248680  
+92 21 9248282  
**Telex:** N/A  
**Email:** [pmdmocar@khi.paknet.com.pk](mailto:pmdmocar@khi.paknet.com.pk)

- (1) Meteorological Office to Karachi Coast Station to Ships/Vessels via broadcast.
- (2) Meteorological Office to LES, Perth via SafetyNet.

Dirección de Hidrografía y Navegación de la Marina  
Av. Gamarra No. 500  
Chucuito  
CALLAO  
PERU

**Updated:** 13/11/1999  
**Telephone:** +51 1 298925  
+51 1 299578  
**Telefax:** --  
**Telex:** 26024 PE HIDRONAV  
**Email:**

Mr. Jee-Yong Lee  
Weather Analysis Officer  
Korea Meteorological Service  
1, Songwol-dong  
Chongro-ku  
SEOUL  
REPUBLIC OF KOREA

**Updated:** 13/11/1999  
**Telephone:** +82 32 7390011  
**Telefax:** --  
**Telex:** 35-2126  
**Email:**

## RUSSIAN FEDERATION (EUROPE)

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Prof. K.P. Vasiliev  
Chief  
Hydrometeorological Research Centre of the Former USSR  
Marine Hydrological Forecasting Division  
9-13 Bolshhevistskaya  
MOSCOW 123376  
RUSSIAN FEDERATION

**Updated:** 13/11/1999  
**Telephone:** +7 495 2551774  
**Telefax:** --  
**Telex:** 411117  
**Email:**

Samoa Ports Authority  
Private Bag  
MATAUTU  
SAMOA

**Updated:** 23/08/2006  
**Telephone:** +685 20855  
+685 20856  
**Telefax:** +685 20857  
**Telex:**  
**Email:** [meteorology@meteorology.gov.ws](mailto:meteorology@meteorology.gov.ws)

To GTS using: FZZM50 NSAP bulletin header.

## SURINAME

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J.R. Wadilie  
Chief  
Meteorological Service Suriname  
Zanderij International Airport  
Aeronautical Division  
District Para  
SURINAME

**Updated:** 13/11/1999

**Telephone:** +595 025154  
+595 025206

**Telefax:** --

**Telex:**

**Email:**

## SWEDEN

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SMHI Ice Service  
NORRKÖPING S-601 76  
SWEDEN

**Updated:** 23/08/2006  
**Telephone:** +46 - 114958533  
**Telefax:** +46 60 114958053  
**Telex:**  
**Email:** [ice@prod.smhi.se](mailto:ice@prod.smhi.se)

SMHI Weatherrouting  
NORRKÖPING S-601 76  
SWEDEN

**Updated:** 23/08/2006  
**Telephone:** +46 60 114958400  
**Telefax:** +46 60 114958403  
**Telex:**  
**Email:** [weatherrouting@prod.smhi.se](mailto:weatherrouting@prod.smhi.se)

## SWITZERLAND

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Prof. Höhn  
Deutscher Wetterdienst Seewetteramt  
Postfach 180  
HAMBURG 4 D - 2000  
GERMANY

**Updated:** 13/11/1999

**Telephone:** --

**Telefax:** --

**Telex:**

**Email:**

Dr. G. Simmen  
Institut Suisse de Météorologie  
Krähbühlstrasse 58  
ZURICH 8044  
SWITZERLAND

**Updated:** 13/11/1999

**Telephone:** --

**Telefax:** --

**Telex:**

**Email:**



## THAILAND

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Director  
Meteorological Department  
Weather Forecast Division  
612 Sukumvit Road  
Bangkok 10110  
THAILAND

**Updated:** 13/11/1999  
**Telephone:** --  
**Telefax:** --  
**Telex:** 72004 DEPMETE TH  
**Email:**

## TURKEY

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Ercan ERUS  
Director  
Deniz Meteoroloji Bürosu  
Airport Meteorological Office  
Karaköy Liman Başkanlığı  
Yesilköy  
ISTANBUL  
TURKEY

**Updated:** 13/11/1999  
**Telephone:** +90 212 149126  
+90 212 738721  
**Telefax:** --  
**Telex:** 22602  
**Email:**

MetWorks Limited  
Acorn House,  
43 Longshot Lane  
BRACKNELL RG12 1RL  
BERKSHIRE  
UNITED KINGDOM

**Updated:** 08/08/2002  
**Telephone:** +44 1344 411116  
**Telefax:** +44 1344 317654  
**Telex:** None  
**Email:** [ops@metworksltd.com](mailto:ops@metworksltd.com)

**Services provided:**

**Full weather routeing:** Initial advisory service. Regular recommendations and advice on optimum routes. Frequent forecasts along the vessel's track, extending to five days ahead.

**Fast Track Service:** Extended forecasts and recommendations covering the complete voyage for high-speed scheduled vessels (e.g. container ships) transitting the North Atlantic and North Pacific Oceans.

**Area Forecasts:** Specialist vessels such as cable ships, survey vessels, tugs and tows can be supplied with specific forecasts for a designated geographical area and period of time. These cover a summary of the weather in the area of operation, Visibility, Wind strength and direction, Significant wave height, Swell direction and period, Tropical Cyclone information, Sea Ice limits and other factors that might affect a passage.

**Services to the Leisure Industry:** Forecasting and routeing services can be supplied to luxury charter and private yachts of any type.

**Voyage Assessment and Consultancy.** Useful in a weather-related dispute when an authoritative second opinion from MetWorks can help to make a case for the client.

**General:** MetWorks services are based on advanced software working with data supplied under contract by the UK Met Office. Advice is transmitted promptly by satellite to the Master of the vessel.

Every member of the MetWorks Operational and Management team is a Master Mariner combining at least 20 years of seagoing experience with weather-routeing expertise and close familiarity with the characteristics of many types of vessel.



**FORMS FOR NEW OR UPDATED MATERIAL**



























**CHAPTER 4 – FOCAL POINT CONTACT INFORMATION**  
**PART A – METAREA COORDINATORS**  
**WMO Worldwide Met-Ocean Information and Warning Service**

(Other formats can be provided – contact: [jbest@wmo.int](mailto:jbest@wmo.int))

<b>Metarea:</b>	
<b>Country:</b>	
<b>Name:</b>	
<b>Address:</b>	
<b>Telephone 1:</b>	
<b>Telephone 2:</b>	
<b>Telefax:</b>	
<b>Email 1:</b>	
<b>Email 2:</b>	
<b>Date of update:</b>	



**CHAPTER 4 – FOCAL POINT CONTACT INFORMATION**  
**PART B – Port Meteorological Offices**

(Other formats can be provided – contact: [jbest@wmo.int](mailto:jbest@wmo.int))

<b>Metarea:</b>	
<b>Country:</b>	
<b>Name:</b>	
<b>Address:</b>	
<b>Telephone 1:</b>	
<b>Telephone 2:</b>	
<b>Telefax:</b>	
<b>Email 1:</b>	
<b>Email 2:</b>	
<b>Date of update:</b>	



CHAPTER 4 – FOCAL POINT CONTACT INFORMATION  
PART C – Ship Weather Routing Services

(Other formats can be provided – contact: [jbest@wmo.int](mailto:jbest@wmo.int))

<b>Metarea:</b>	
<b>Country:</b>	
<b>Name:</b>	
<b>Address:</b>	
<b>Telephone 1:</b>	
<b>Telephone 2:</b>	
<b>Telefax:</b>	
<b>Email 1:</b>	
<b>Email 2:</b>	
<b>Date of update:</b>	



