CHAPTER 3

RADIO NAVIGATIONAL WARNINGS

PART I TYPES OF NAVIGATIONAL BROADCASTS

300A.	Global Maritime Distress and Safety System (GMDSS)	
300B.	Local Warnings	
300C.	Coastal Warnings	3-4
300D.	NAVAREA/METAREA Warnings	3-18
300E.	NAVAREA Messages	3-18
300F.	METAREA Messages	3-25
300G.	Navigational Warnings for the Military	3-31
300H.	Special Warnings and MARAD Advisories	3-32
300I.	North American Ice Service Iceberg Information and Services	3-33
300J.	International Ice Warnings	3-37
300K.	Baltic Sea Ice Codes	3-38

PART II BROADCAST STATION LIST

300L.	Summary	. 3-50
300M-DR	Country Station List.	. 3-51

CHAPTER 3

RADIO NAVIGATIONAL WARNINGS

PART I TYPES OF NAVIGATIONAL BROADCASTS

300A. Global Maritime Distress and Safety System (GMDSS)

The GMDSS is a global communications service based upon automated systems, both satellite based and terrestrial, to provide distress alerting and promulgation of Maritime Safety Information (MSI) for mariners. This chapter focuses on MSI broadcasts, for Distress including Search and Rescue see Chapter 4.

Definitions:

- -<u>Coast Earth Station (CES)</u> is a fixed station on land to link satellite transmission to users.
- -<u>CAMSLANT-</u> Communications Area Master Station Atlantic. Provides rapid, reliable and secure communications support and services to U.S. Coast Guard operational commanders, other government agencies, military and civilian organizations throughout the world.
- -<u>CAMSPAC-</u> Communications Area Master Station Pacific. Delivers record message traffic and voice communications services to U.S. Coast Guard Units world wide. Provides extensive weather warnings and safety information to commercial and recreational vessels and acts as a distress notification center.
- -<u>COGARD NAVCEN-</u> The U.S. Coast Guard Navigation Center. Provides maritime navigation and information services that enhance the safety, security, and efficiency of U.S. waters.
- -<u>COMPAS-SARSAT-</u> a satellite-based search and rescue distress alert detection and information distribution system.
- -Digital Selective Calling (DSC) equipment that allows mariners to instantly send or receive automatically formatted distress alerts to vessels and coast stations in the area.
- -<u>High Frequency Narrow Band Direct Printing (HF</u> <u>NBDP) -</u> an automated direct printing service using High Frequency.

300B. Local Warnings (Sea Area A1)

Sea Area A1, is mainly for local navigational warnings-inland waters extending out to about 30nm (56km)-40nm (74km) from the coast. Vessels are required to only carry VHF radio equipment with continuous DSC alerting available.

-To obtain NOAA <u>WEATHER</u> broadcasts for <u>A1</u> in U.S. waters:

VHF Channel: 22A (157.1 MHz)

-To obtain USCG <u>NAVIGATIONAL</u> broadcasts for <u>A1</u> in U.S. waters:

VHF Channel: 22A

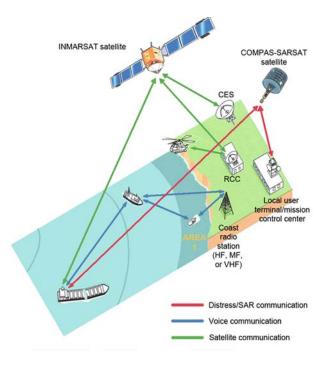
-<u>INMARSAT</u> - International Maritime Satellites. A company that owns and operates mobile voice and data communication satellites all around the world where terrestrial networks are not operational.

– International Hydrographic Organization (IHO) - Coordinates the activities of national hydrographic offices, promotes standards and provides advice to developing countries in the fields of hydrographic surveying and production of nautical charts and publications.

- -<u>International Ice Patrol (IIP)</u>- provides the latest information on iceberg positions and computer prediction of the extent of the iceberg danger zone to mariners in the North Atlantic Ocean. Areas of study include iceberg detection, drift and deterioration, surface object drift and currents in the Grand Banks Region.
- -<u>International Maritime Organization (IMO)</u> is the specialized agency of the United Nations responsible for maritime safety and efficiency of navigation.
- -<u>Maritime Mobile Service Identity (MMSI)</u>- is a series of nine digits which are sent in digital form over a radio frequency channel that uniquely identifies the user.
- -<u>Maritime Safety Information (MSI)</u>- navigational and meteorological warnings, meteorological forecasts and other urgent safety-related messages broadcast to ships.
- -<u>Mobile Earth Station (MES)</u>- an antenna that is not in a fixed location that communicates with a satellite, normally located on a vessel.
- -<u>NAVTEX-</u> an automated direct printing service using 424, 490 and/or 518 kHz.
- -<u>SafetyNET</u> an international service using satellites to promulgate urgent and safety related messages to vessels.
- -<u>World Meteorological Organization (WMO)</u>- is the specialized agency of the United Nations for meteorology (weather and climate), operational hydrology and related geophysical sciences. This is the organization responsible for coordinating weather forecasts and alerts to vessels out to sea.

MF Channel: 2670 kHz (single side band) *Website:* https://homeport.uscg.mil

<u>NOAA Weather Radio</u> is a service providing specialized weather broadcasts for maritime users along the U.S. coastline, Great Lakes, Puerto Rico, the Virgin Islands, Guam and Saipan. It provides continuous broadcasts of the latest weather information directly from National Weather Service (NWS) offices. Taped weather messages are repeated every four to six minutes and are routinely revised every one to three hours, or more frequently if needed.



Sea Area 1

During severe weather, NWS forecasters can interrupt the routine weather broadcasts and substitute special warning messages.

NOAA Weather Radio broadcasts are received on 1one of seven VHF channels listed below. These channels are

300C. Coastal Warnings (Sea Area A2)

Sea Area A2 are coastal navigational warnings, such as NAVTEX, extending out to about 200nm from the coast. Vessels are required to carry the same equipment from A1 as well as MF radio communications (with continuous DSC alerting available).

NAVTEX is an international automated medium frequency direct-printing service informing mariners of navigational and meteorological warnings and forecasts, as well as urgent marine safety information. NAVTEX is part of the GMDSS system, however not all countries use NAVTEX broadcasts to warn mariners of safety information along the coast. NAVAREA V (Brazil), NAVAREA X (Australia), and NAVAREA XIV (New Zealand) broadcast their coastal warning via the International EGC Service.

International NAVTEX service is the coordinated broadcast and reception on 518 kHz of maritime safety information by means of narrow band direct printing telegraphy using the English language.

generally designated on marine VHF equipment as WX-1 through WX-7. These broadcasts usually can be received within 25 miles of the antenna site.

NOAA Weather Radio VHF Channels					
WX-1	162.550 MHz				
WX-2	162.400 MHz				
WX-3	162.475 MHz				
WX-4	162.425 MHz				
WX-5	162.450 MHz				
WX-6	162.500 MHz				
WX-7	162.525 MHz				

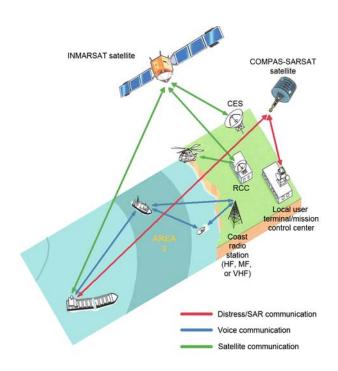
A list of broadcast stations and frequencies may be obtained from the NOAA Weather Radio Website at: http://www.nws.noaa.gov/nwr/

or from the NWS at the following address:

NATIONAL WEATHER SERVICE ATTN: W/OS21 NOAA 1325 EAST WEST HIGHWAY SILVER SPRING MD 20910

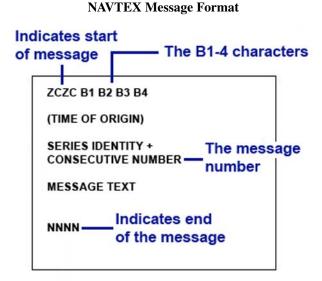
Marine Product Dissemination Information may be obtained from the NWS Marine Forecasts Homepage at: http://www.nws.noaa.gov/om/marine/home.htm

Information available includes forecasts and warnings, up-to-date marine weather charts, including those broadcast by the Coast Guard over HF radiofacsimile, and the NOAA Weather Radio Guide.



NAVTEX messages basic format

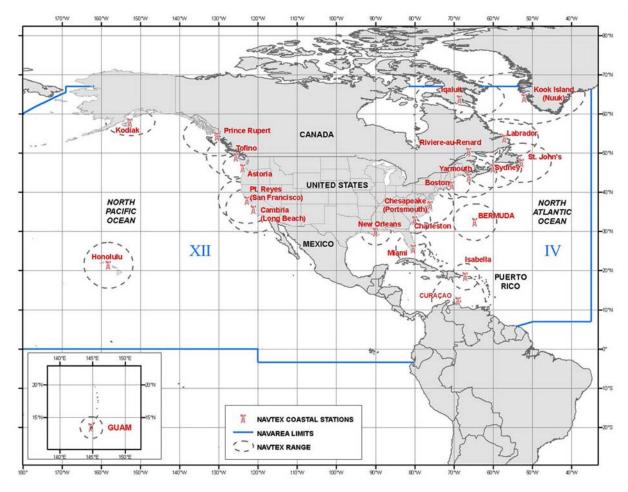
- SUBJECT INDICATOR CHARACTERS (B₁): is a single letter allocated to each NAVTEX shore station transmitter. For example, NAVTEX station Miami's B₁ character is A.
- SUBJECT INDICATOR CHARACTERS (B₂): is used by the receiver to identify different classes of messages.
- A: Navigational warnings¹
- B*: Meteorological warnings1
- C: Ice reports
- D: Search and rescue information, piracy warnings, tsunamis and other natural phenomena¹
- E: Meteorological forecasts
- F*: Pilot service messages
- G: AIS
- H: LORAN messages
- I: Spare
- J: GNSS system messages regarding PRN status
- K: Other electronic navaid messages
- L: Navigational warnings (additional to A)²
- V to Y: Special services (allocation by NAVTEX Panel)
- Z: No messages on hand
- ¹: Cannot be rejected by the receiver
- ²: Should not be rejected by the receiver
- *Normally not used in the United States



SUBJECT INDICATOR CHARACTERS (B_4) and (B_4): each message within each subject group is allocated a two digit sequential serial number, beginning at 01 and ending at 99. The B₃ & B₄ message numbering characters together are often referred to as the "NAVTEX number". The NAVTEX number is solely allocated as a component of the NAVTEX message identity and should not be confused with (and bears no correlation to), the series identity and consecutive number of the coastal warning contained in the message. Messages broadcast using NAVTEX number $B_3B_4 = 00$ cannot be rejected and will automatically override any selection of B_1 transmitter identification characters as well as any B_2 subject indicator characters selected on the NAVTEX receiver.

To obtain NOAA WEATHER and USCG NAVIGATIONAL broadcasts for A2 in U.S. waters:

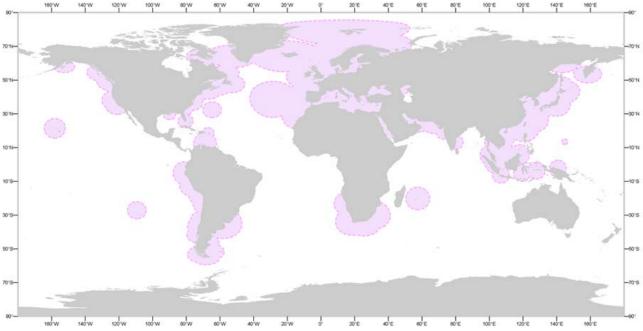
VHF Channel:22A MF Channel: 2670 kHz (single side band) NAVTEX:518 kHz Web site:http://www.nws.noaa.gov/om/marine/navtex.htm



U.S. NAVTEX Coverage

	300C.1 U.S. NAVTEX Stations									
NAVTEX Coast Station (ID)	Position	Range (NM)	kHz	Transmitter Identification (B ₁) Character	Broadcast Time (UTC)					
Boston (NMF)	41-43N 070-30W	200	518	F	00, 04, 08, 12, 16, 2050					
NOTE: Nav Warnings in	clude International Id	ce Patrol B	ulletins (Fe	b-July)						
Remotely controlled from	m USCG COMMCO	MM (NMN	I) MMSI: (03669991 Phone: +	1 757 421 6240					
Portsmouth/ CAMSLANT (NMN)	36-43N 076-00W	280	518	Ν	02, 06, 10, 14, 18, 2210					
MMSI: 003669995 Phot	ne: +1 757 421 6240 I	Fax: +1 757	7 421 6225							
Charleston (NME)	32-51N 079-59W	200	518	Е	00, 04, 08, 12, 16, 2040					
NOTE: Right Whale War	rnings on receipt		•							
Remotely controlled from USCG COMMCOMM (NMN) Phone: +1 757 421 6240										
Miami (NMA)	25-37N 080-23W	240	518	А	00, 04, 08, 12, 16, 2000					
Remotely controlled from	m USCG COMMCO	MM (NMN	I) MMSI: (03669997 Phone: +	1 757 421 6240					
Isabella (NMR)	18-28N 067-04W	200	518	R	02, 06, 10, 14, 18, 2250					

300C.1 U.S. NAVTEX Stations								
NAVTEX Coast Station (ID)	Position	Range (NM)	kHz	Transmitter Identification (B ₁) Character	Broadcast Time (UTC)			
MMSI: 003669992, Pho	ne: +1 787 289 2041,	Fax: +1 78	87 729 670	6				
New Orleans (NMG)	29-53N 089-57W	200	518	G	01, 05, 09, 13, 17, 2100			
Remotely controlled from	m USCG COMMCO	MM (NMN	I) MMSI: 0	003669998 Phone: +	1 757 421 6240			
Cambria (NMQ)	35-31N 121-03W	350	518	Q	02, 06, 10, 14, 18, 2240			
Remotely controlled from	m CAMSPAC (MNC) MMSI: 00	03669912 H	Phone: +1 415 669 2	20 47			
Point Reyes RCF (San Francisco) CAMSPAC (NMC)	37-55N 122-44W	350	518	С	00, 04, 08, 12, 16, 2020			
MMSI: 003669990 Phot	ne: +1 415 669 20 47,	Fax: +1 4	15 669 20 9	6, E-mail: rccalame	eda@uscg.mil			
Astoria (NMW)	46-10N 123-49W	216	518	W	03, 07, 11, 15, 19, 2340			
Remotely controlled from	m CAMSPAC (NMC)) MMSI: 00	03669910,	Phone: +1 415 669	20 47			
Kodiak (NOJ) Areas EAST of Kodiak	57-46N 152-34W	200	518	J	01, 05, 09, 13, 17, 2130			
Kodiak (NOX) Areas WEST of Kodiak	57 1010 152 5110	200	510	Х	03, 07, 11, 15, 19, 2350			
MMSI: 003669899, Pho	MMSI: 003669899, Phone: +1 907 487 57 78, Fax: +1 907 487 54 30 E-mail: jrccjuneau@uscg.mil							
Honolulu (NMO)	21-25N 158-09W	350	518	0	02, 06, 10, 14, 18, 2220			
Remotely controlled from CAMSPAC (NMC) MMSI: 003669993, Phone: + 1 415 669 20 47								



Worldwide NAVTEX Coverage

		300C.2 Worldw	vide NAV	TEX Sta	tions				
Country	NAVTEX Coast Station (ID)	Position	Range (NM)	kHz	Transmitter Identification (B ₁) Character	Broadcast Time (UTC)			
	-				-	-			
Algeria	Bordj-el-Kiffan	36-44N 003-10E	150	490	V (French)	03, 07, 11, 15, 19, 2230			
	(7TA)	50 111 005 102	100	518	В	00, 04, 08, 12, 16, 2010			
Argentina				490	D (Spanish)	01, 05, 09, 13, 17, 2120			
7 ingentinu	Bahia Blanca (L2I)	38-43S 062-06W	280	518	P	02, 06, 10, 14, 18, 2230			
	Phone: (54-291) 457335	55			_				
			280	490	F (Spanish)	00, 04, 08, 12, 16, 2050			
	Buenos Aires (L2B)	34-36S 058-22W		518	R	02, 06, 10, 14, 18, 2250			
	Phone: (54-11) 457 67657, Fax: (54-11) 45767556, E-mail: info@perfecturanaval.gov.ar								
	Comodoro Rivadavia	45-51S 067-25W	280	490	C (Spanish)	00, 04, 08, 12, 16, 2020			
	(L2W)			518	0	02, 06, 10, 14, 18, 2220			
	Phone: (54-297) 4462167, Fax: (54-297) 4473863								
	Maria dal Diata (LOD)	20.025.055 2 2 11	290	490	E (Spanish)	00, 04, 08, 12, 16, 2040			
	Mar del Plata (L2P)	38-03S 057-32W	280	518	Q	02, 06, 10, 14, 18, 2240			
	Phone: (54-223) 4803100, Fax: (54-223) 4803006								
	Die Celleges (L2D)	51-318 065-03W	280	490	B (Spanish)	00, 04, 08, 12, 16, 2010			
	Rio Gallegos (L3D)	51-515 005-05 W	280	518	N	02, 06, 10, 14, 18, 2210			
	Phone: (54-2966) 42037	75			·				
	Uchucie (I 2K)	54-48S 068-18W	280	490	A (Spanish)	00, 04, 08, 12, 16, 2000			
	Ushuaia (L3K)	J4-403 000-18W	280	518	М	02, 06, 10, 14, 18, 2200			
	Phone: (54-2901) 42238	32, Fax: (54-2901) 42	21425			-			

		300C.2 Worldw	vide NAV	TEX Sta	tions				
Country	NAVTEX Coast Station (ID)	Position	Range (NM)	kHz	Transmitter Identification (B ₁) Character	Broadcast Time (UTC)			
Azores	Horta (CTH)	38-32N 028-38W	640	490	J (Portuguese)	01, 05, 09, 13, 17, 2130			
				518	F	00, 04, 08, 12, 16, 2050			
	Phone: +351 292 20 86	20, Fax: +351 292 2	0 86 69						
Belgium	1		55	490	B (Dutch)	00, 04, 08, 12, 16, 2010			
Beigium			150		V (Navigational				
	Oostende (OST)	51-11N 002-48E		518	Warnings only)	03, 07, 11, 15, 19, 2330			
	NO. (GL 002020400 DL	22.50.242.402	55	518	Т	03, 07, 11, 15, 19, 2310			
	MMSI: 002050480, Pho	one: +32 59 342 493	Fax:						
Bahrain	Bahrain (A9M)	26-09N 050-28E	300	518	В	00, 04, 08, 12, 16, 2010			
			1						
Bermuda	Bermuda (ZBR)	32-23N 064-41W	280	518	В	00, 04, 08, 12, 16, 2010			
	MMSI: 003100001, Tel	ex: 581 431010110 I	Phone: +4	41 297 1	0 10 Fax: +441 297	15 30			
	-		-						
Bulgaria	Varna (LZW)	43-04N 027-46E	350	518	J	01, 05, 09, 13, 17, 2130			
C	1	1	1	400	V (Essente)	02 07 11 15 10 2220			
Canada	Chebogue(VAR-9)	43-44N 066-07W	300	490 518	V (French)	03, 07, 11, 15, 19, 2330 03, 07, 11, 15, 19, 2320			
	S18 O 05, 07, 11, 15, 19, 2520 MMSI: 003160015, Telex: 21 1922510 Phone: +1 902 426 97 50 Fax: +1 506 636 50 00								
			10. +1 70.						
	Iqaluit (VFF)	63-43N 068-33W	300	490 518	S (French)	03, 07, 11, 15, 19, 2300 03, 07, 11, 15, 19, 2310			
	Operates Jun-Dec MMS		le: +1 867		1				
	Cartwright (VOK)	53-42N 057-11W	300	518	X	03, 07, 11, 15, 19, 2350			
	<i>Ice included in warning</i>								
		~	300	518					
	Prescott (XMJ 329) <i>Ice included in warning</i>	44-56N 081-14W			H	01, 05, 09, 13, 17, 2110			
		s auring ice season I		5100025	, Filolie. +1 418 22	3 21 94			
	Amphitrite Point (Prince Rupert)	48-55N 125-33W	300	518	Н	01, 05, 09, 13, 17, 2110			
	MMSI: 003160013, Pho	one: +1250 627 30 74	4, Email:	mctsprin	cerupert@dfo-mpo-	-gc.ca			
	Mosie (VCK)	50-12N 066-07W	300	490	D (French)	00, 04, 08, 12, 16, 2035			
			300	518	С	00, 04, 08, 12, 16, 2020			
	Ice included in warning	s during ice season							
	Robin Hood Bay (VON)	47-37N 052-40W	300	518	0	02, 06, 10, 14, 18, 2220			
	Ice included in warning	s during ice season l	MMSI: 00)3160020	Phone: +1 709 772	2 21 82			
	Port Caledonia			490	J (French)	01, 05, 09, 13, 17, 2130			
	(VCO)	46-11N 059-54W	300	518	Q	02, 06, 10, 14, 18, 2240			
	Ice included in warning	s during ice season l	MMSI: 00		=				
	Thunder Bay (CAN)	48-34N 088-39W	300	518	Р	02, 06, 10, 14, 18, 2230			
		1	200		-	. ,			

Ice included in warnings during ice season

300C.2 Worldwide NAVTEX Stations								
Country	NAVTEX Coast Station (ID)	Position	Range (NM)	kHz	Transmitter Identification (B ₁) Character	Broadcast Time (UTC)		
	Digby Island (Prince Rupert)	54-18N 130-25W	300	518	D	00, 04, 08, 12, 16, 2030		
	MMSI: 003160013, Phone: +1 250 627 30 74, Email: mctsprincerupert@dfo-mpo-gc.ca							

Canary Islands	Las Palmas (EAL)	28-25N 016-23W	400	490	A (Spanish)	00, 04, 08, 12, 16, 2000		
				518	Ι	01, 05, 09, 13, 17, 2120		
	MMSI: 2240995, Telex: +52 95003 SALPA, Phone: +34 956 68 47 40, Fax: +34 956 68 06 06							
Cape Verde		16-51N 025-00W	250	490	P (Portuguese)	02, 06, 10, 14, 18, 2230		
				518	U	03, 07, 11, 15, 19, 2320		
	MMSI: 617000, Phone: +238 23 22 158, Fax: +238 23 22 263, E-mail: s.movelmaritimo@cvtelecom.cv							

		300	518	H (Spanish)	00, 08, 1600		
Antofagasta (CBA)	23-37S 070-25W		518	A	04, 12, 2000		
Icle de Deceue (CDV)	27 005 100 25W	200	518	G	00, 08, 1650		
Isla ue rascua (CD1)	27-093 109-23 W	300	518	F (Spanish)	04, 12, 2000		
Magallanes (CBM)	53-098 070-58W	300	518	L (Spanish)	00, 08, 1640		
	55-075 070-58 W	500	518	E	04, 12, 2040		
Puerto Montt (CBP)	41-308 072-58W	300	518	K (Spanish)	00, 08, 1630		
	11 305 072 30 0	500	518	D	04, 12, 2030		
Talcahuano (CBT)	36-438 073-07W	300	518	J (Spanish)	00, 08, 1620		
	30 135 073 07 1		518	E	04, 12, 2020		
Valparaiso (CBV)	32-48S 071-29W	300	518	I (Spanish)	00, 08, 1610		
			518	В	04, 12, 2010		
Dalian (XSZ)	38-51N 121-31E	250	518	R	02, 06, 10, 14, 18, 2250		
Fuzhou (XSL)	26-02N 119-18E	250	518	0	02, 06, 10, 14, 18, 2220		
in English and Chinese							
Guangzhou (XSQ)	23-09N 113-29E	250	518	Ν	02, 06, 10, 14, 18, 2210		
Hong Kong (VRX)	22-13N 114-15E	400	518	L	01, 05, 09, 13, 17, 2150		
Sanya (XSI)	18-15N 109-30E	250	518	М	02, 06, 10, 14, 18, 2200		
Shanghai (XSG)	31-07N 121-33E	250	518	Q	02, 06, 10, 14, 18, 2240		
			10.0				
	Dalian (XSZ)Fuzhou (XSL)in English and ChineseGuangzhou (XSQ)Hong Kong (VRX)Sanya (XSI)	Isla de Pascua (CBY) 27-09S 109-25W Magallanes (CBM) 53-09S 070-58W Puerto Montt (CBP) 41-30S 072-58W Talcahuano (CBT) 36-43S 073-07W Valparaiso (CBV) 32-48S 071-29W Dalian (XSZ) 38-51N 121-31E Fuzhou (XSL) 26-02N 119-18E in English and Chinese Guangzhou (XSQ) 23-09N 113-29E Hong Kong (VRX) 22-13N 114-15E Sanya (XSI)	Isla de Pascua (CBY) 27-09S 109-25W 300 Magallanes (CBM) 53-09S 070-58W 300 Puerto Montt (CBP) 41-30S 072-58W 300 Talcahuano (CBT) 36-43S 073-07W 300 Valparaiso (CBV) 32-48S 071-29W 300 Dalian (XSZ) 38-51N 121-31E 250 Fuzhou (XSL) 26-02N 119-18E 250 in English and Chinese 400 Sanya (XSI) 18-15N 109-30E 250	Isla de Pascua (CBY) 27-09S 109-25W 300 518 518 Magallanes (CBM) 53-09S 070-58W 300 518 518 Puerto Montt (CBP) 41-30S 072-58W 300 518 518 Talcahuano (CBT) 36-43S 073-07W 300 518 518 Valparaiso (CBV) 32-48S 071-29W 300 518 518 Dalian (XSZ) 38-51N 121-31E 250 518 518 Fuzhou (XSL) 26-02N 119-18E 250 518 518 Hong Kong (VRX) 22-13N 114-15E 400 518 518	Antofagasta (CBA) 23-37S 070-25W 300 100		

Columbia	Santa Maria	11-03S 074-14W	300	490	K (Spanish)	01, 05, 09, 13, 17, 2140
		11-055 074-14 W	500	518	E	00, 04, 08, 12, 16, 2020
	Buenaventura	03-54N 077-04W	300	518	C (Spanish)	00, 04, 08, 12, 16, 2040
	Duchaventura	03-3411 077-04 1	500	518	0	02, 06, 10, 14, 18, 2220
Croatia	Split (9AS)	43-11N 016-26E	85	518	Q	02, 06, 10, 14, 18, 2240
Cyprus	Cyprus (5BA)	35-03N 033-17E	200	518	М	02, 06, 10, 14, 18, 2200

		300C.2 Worldw	vide NAV	TEX Sta	tions	
Country	NAVTEX Coast Station (ID)	Position	Range (NM)	kHz	Transmitter Identification (B ₁) Character	Broadcast Time (UTC)
Ecuador	Ayora (HCY)	00-43S 090-19W	400	490 518	A (Spanish) L	00, 04, 08, 12, 16, 2000 01, 05, 09, 13, 17, 2150
Egypt	Al Quseir (SUK)	26-06N 034-17E	400	518	V	03, 07, 11, 15, 19, 2330
	Alexandria (SUH)	31-12N 029-52E	350	518	Ν	02, 06, 10, 14, 18, 2210
L	Ismailia (SUZ)	30-28N 032-22E	400	518	Х	03, 07, 11, 15, 19, 2350
Estonia	Tallinn (ESA)relayed by MSI Sweden,	59-30N 024-30E /Stockholm radio	250	518	U	03, 07, 11, 15, 19, 2320
Faroe Island	Torshavn (OXJ)	62-01N 006-48W		518	D	00, 04, 08, 12, 16, 2030
France	Corsen (FRC)	48-28N 005-03W	300	490 518	E (French) W	00, 04, 08, 12, 16, 2040 03, 07, 11, 15, 19, 2340
	MMSI: 2275300, Telex: E-mail: corsen.mrcc@e), Phone: -	+33 (0)2	98 89 31 31, Fax: +3	33 (0)2 98 89 65 75,
	La Garde(FRL)	43-06N 005-59E	250	490	S (French)	03, 07, 11, 15, 19, 2300
Germany	Haburg (DDH-49)	53-40N 009-49E	250	490	L (German) S	01, 05, 09, 13, 17, 2150 03, 07, 11, 15, 19, 2300
Greece	Kerkyra (SVK)	39-37N 019-55E	280	518	K	01, 05, 09, 13, 17, 2140
	Irakleio(SVH)	35-20N 025-07E	280	518	Н	01, 05, 09, 13, 17, 2110
	Limnos (SVL)	34-52N 025-04E	280	518	L	01, 05, 09, 13, 17, 2150
Greenland	Kook Island (OXI) Phone: +229 691911 Fa	64-04N 052-01W x: +299 691949	300	518	W	03, 07, 11, 15, 19, 2340
	Simiutaq (OXF)	60-41N 046-36W	300	518	М	02, 06, 10, 14, 18, 2200
	Phone: +299 364010 (JJ	RCC Greenland) Fax	: +299 69	1949	ł	
<u> </u>	Upernavik (OYN)	72-47N 056-12W		518	Ι	01, 05, 09, 13, 17, 2120
Guam	Guam (NRV)	13-29N 144-50E	100	518	V	03, 07, 11, 15, 19, 2330
	NOTE: Broadcasts cont	rolled from U.S. Coa	ist Guard	CAMSPA	AC (Point Reyes)	
		1		490	K (Icelandic)	01, 05, 09, 13, 17, 2140
Iceland	Grindavik (TFK)	63-47N 022-31W		518	X	03, 07, 11, 15, 19, 2350

	300C.2 Worldwide NAVTEX Stations								
Country	NAVTEX Coast Station (ID)	Position	Range (NM)	kHz	Transmitter Identification (B ₁) Character	Broadcast Time (UTC)			
India	Mumbai (Bombay)(VWB)	19-05N 072-50E	250	518	G	01, 05, 09, 13, 17, 2100			
	Chennai (Madras)(VWM)	13-05N 080-17E	250	518	Р	02, 06, 10, 14, 18, 2230			
Indonesia	Ambon (PKE)	03-42S 128-12E	300	518	В	00, 04, 08, 12, 16, 2010			
	Jakarta (PKX)	06-06S 106-54E	300	518	Е	00, 04, 08, 12, 16, 2040			
	Jayapura (PNK)	02-31S 140-43E	300	518	А	00, 04, 08, 12, 16, 2000			
	Makassar (PKF)	05-06S 119-26E	300	518	D	00, 04, 08, 12, 16, 2030			

Iran (Is- lamic Re- public of)	Busherhr (EQM)	28-59N 050-49E	300	490	D (Farsii)	00, 04, 08, 12, 16, 2030
				518	А	00, 04, 08, 12, 16, 2000
	Abbas Radio (EQI)	27-06N 056-03E	300	490	I (Farsii)	01, 05, 09, 13, 17, 2120
	Abbas Kaulo (EQI)	27-001 030-03E	300	518	F	00, 04, 08, 12, 16, 2050
	Fereydoonkenar	36-42N 052-33E	250	490	J (Farsii)	01, 05, 09, 13, 17, 2130
	(EQO)	50-421 052-55E	250	518	G	01, 05, 09, 13, 17, 2100

Ireland	Malin Head (EJM)	55-22N 007-21W	400	490	А	00, 04, 08, 12, 16, 2000
		55-221 007-21 W		518	Q	02, 06, 10, 14, 18, 2240
	490kHz broadcasts inst	ore water weather fo	recasts			
	Valentia (EJK)	51-56N 010-21W	400	518	W	03, 07, 11, 15, 19, 2340
Israel	rael Haifa (4XO) 32	32-49N 035-00E	200	518	P (Weather)	00, 04, 08, 12, 16, 2020
1		52-491(055-00L			P (MSI)	02, 06, 10, 14, 18, 2230

Italy	Augusta (IQA)	37-14N 015-14E	320	518	V	03, 07, 11, 15, 19, 2230
	Cagliari (IDC)	39-13N 009-14E	320	518	Т	03, 07, 11, 15, 19, 2210
	Rome (IAR)	41-37N 012-29E	320	518	R	02, 06, 10, 14, 18, 2250
	Trieste (IQX)	45-41N 013-46E	320	518	U	03, 07, 11, 15, 19, 2320

Japan	Kushiro (JNX)	42-57N 144-36E	400	424	K (Japanese)	01, 05, 09, 13, 17, 2108		
		42-5710 144-50L		518	K	01, 05, 09, 13, 17, 2140		
	424 & 518kHz ice broadcasts Jan-Apr: 09, 1330. Tsunami warnings issued when needed.							
	Moji (JNR)	34-01N 130-56E	400	424	H (Japanese)	00, 04, 08, 12, 16, 2017		
		54-011 150-50L		518	Н	01, 05, 09, 13, 17, 2110		
	Ice and tsunami warnings issued when needed.							

	•	300C.2 Worldw	ade NAV	IEA Sta		
Country	NAVTEX Coast Station (ID)	Position	Range (NM)	kHz	Transmitter Identification (B ₁) Character	Broadcast Time (UTC)
	Naha (JNB)	26-05N 127-40E	400	424	G (Japanese)	00, 04, 08, 12, 16, 2000
				518	G	01, 05, 09, 13, 17, 2100
	Ice and tsunami warnin	gs issued when need	ed.			
	Otaru (JNL)	43-19N 140-27E	400	424	J (Japanese)	00, 04, 08, 12, 16, 2051
		4J-1910 140-2712	400	518	J	01, 05, 09, 13, 17, 2130
	Ice and tsunami warnin	gs issued when need	ed.		•	·
		25 14N 120 55E	100	424	I (Japanese)	00, 04, 08, 12, 16, 2034
	Yokohama (JGC)	35-14N 139-55E	400	518	Ι	01, 05, 09, 13, 17, 2120
	Ice and tsunami warnin	gs issued when need	ed.			
Madeira	Porto Santo (CTQ)	33-04N 016-21W		490	M (Portuguese)	01, 05, 09, 13, 17, 2100
	Porto Santo (CTQ)			518	Р	02, 06, 10, 14, 18, 2230
	Phone: +351 212 91 98	01 50, Fax: +351 21	2 91 98 0	1 69		
Malaysia	Miri (9WR)	04-25N 114-01E	350	518	Т	03, 07, 11, 15, 19, 2310
	Penang (9MG)	05-26N 100-24E	350	518	U	03, 07, 11, 15, 19, 2320
	Sandakan (9WS)	05-54N 118-00E	350	518	S	03, 07, 11, 15, 19, 2300
Malta	Malta (9HD)	35-59N 014-32E	350	518	Т	03, 07, 11, 15, 19, 2310
Mauritius	Mauritius (3BM)	20-11S 057-28E	400	518	C	00, 04, 08, 12, 16, 2020
	Phone: +91 135 274736	8, Fax: +91 135 274	8373, E-n	nail: <mark>inh</mark> o	o@dataone.in, inho	_marinesafety@dataone.i
Morocco	Casablanca (CNP)	33-36N 007-38W	180	518	М	02, 06, 10, 14, 18, 2200
Namibia	Walvis Bay (V5W)	23-03S 014-38E	378	518	В	00, 04, 08, 12, 16, 2010
Nether- lands	Den Helder (PBK)	52-57N 004-47E		518	Р	02, 06, 10, 14, 18, 2230
	1	1	1		1	
Nether- lands An- tilles	Curacao (PJC)	12-10N 068-52W	400	518	Н	01, 05, 09, 13, 17, 2110
	MMSI: 003061000 Pho	ne: +559 94637733,	Fax: +559	9 946379	50	1
Nigeria	Lagos (5OW)	06-26N 003-19E	1 1	518	S	03, 07, 11, 15, 19, 2300
rugena						
	Port Harcourt (5OZ)	04-23N 007-10E		518	Е	00, 04, 08, 12, 16, 2040

North Korea	Hungnam (HMH)	39-50N 127-41E	490	E (Korean)	00, 04, 08, 12, 16, 2240
			518	E	00, 04, 08, 12, 18, 2240
	Pyongyang (HMZ)	39-00N 125-43E	490	D (Korean)	00, 04, 08, 12, 16, 2230
	i yongyang (IIIVIZ)	57-001 125 - 45E	518	D	00, 04, 08, 12, 16, 2230

	300C.2 Worldwide NAVTEX Stations									
Country	NAVTEX Coast Station (ID)	Position	Range (NM)	kHz	Transmitter Identification (B ₁) Character	Broadcast Time (UTC)				
Norway	Bodo (LGP)	67-16N 014-23E	450	518	В	00, 04, 08, 12, 16, 2010				
	Phone: +47 75 52 89 25	, Fax: +47 75 52 58 9	96, E-mai	il: bodo.r	adio@telenor.com					
	Orlandet (LGD)	63-40N 009-33E	450	518	Ν	02, 06, 10, 14, 18, 2210				
	Rogaland (LGQ)	58-39N 005-36E	450	518	L	01, 05, 09, 13, 17, 2150				
	Vardo (LGV)	70-22N 031-06E	450	518	V	03, 07, 11, 15, 19, 2330				
	Phone: +47 75 52 89 25	, Fax: +47 75 52 58 9	96, E-mai	l: bodo.r	adio@telenor.com					
Oman	Muscat (A4M)	23-36N 058-30E	270	518	М	02, 06, 10, 14, 18, 2200				
					•					
Pakistan	Karachi (ASK)	24-51N 067-03E	400	518	Р	02, 06, 10, 14, 18, 2230				

Peru	Callao (OBC-3)	12-02S 077-07W	400	518	U	03, 07, 11, 15, 19, 2320				
	Phone: (01) 420-0177/9	Phone: (01) 420-0177/9999-25383								
	Mollendo (OBF-4)	17-01S 072-01W	400	518	W	03, 07, 11, 15, 19, 2340				
	Phone: (054) 53-4383/9	Phone: (054) 53-4383/9590-36759								
	Paita (OBY-2)	05-05S 081-07W	400	518	S	03, 07, 11, 15, 19, 2300				
	Phone: (073) 21-1670/9695-20961									

Philip- pines	Davao (DWT)	07-04N 125-36E	320	518	K	01, 05, 09, 13, 17, 2140
	Manila (DZS)	14-35N 121-03E	320	518	J	01. 05. 09. 13. 17. 2130
	Puerto Princesa (DVS)	09-44N 118-43E	320	518	Ι	01, 05, 09, 13, 17, 2120

Portugal	Monsanto (CTV)	38-44N 009-11W	520	490	G (Portuguese)	01, 05, 09, 13, 17, 2100
				518	R	02, 06, 10, 14, 18, 2250
	Phone: +351 217 78 67	56, Fax: +351 217 78	3 67 56			

Romania	Constanza (YQV)	44-06N 028-37E	400	490	G (Romanian)	01, 05, 09, 13, 17, 2150
Russian Federa- tion	Archangel (UGE)	64-33N 040-32E	300	518	L	00, 04, 08, 12, 16, 2050
	Astrakhan (UJB)	46-18N 047-58E	250	518	W	03, 07, 11, 15, 19, 2340
Russian Federa- tion	Kholmsk (UFO)	47-02N 142-03E	300	518	В	00, 04, 08, 12, 16, 2010
	Magadan (UIB)	59-41N 150-09E	120	518	D	00, 04, 08, 12, 16, 2030

300C.2 Worldwide NAVTEX Stations								
Country	NAVTEX Coast Station (ID)	Position	Range (NM)	kHz	Transmitter Identification (B ₁) Character	Broadcast Time (UTC)		
	Murmansk (UHY)	68-46N 032-58E	300	518	K	00, 04, 08, 12, 16, 2020		
	Novorossiysk (UDN)	44-36N 037-58E	300	518	А	03, 07, 11, 15, 19, 2300		
	Okhotsk (UCV-2)	59-22N 143-12E	300	518	G	01, 05, 09, 13, 17, 2100		
	Petropavlovsk (UBE-2)	53-15N 158-25E	300	518	С	00, 04, 08, 12, 16, 2020		
	Vladivostok (UIK)	43-23N 131-54E	230	518	А	00, 04, 08, 12, 16, 2000		
Saudi Arabia	Jeddah (HZH)	21-23N 039-10E	390	518	Н	07, 13, 1905		
Senegal	Dakar (6VA)	14 46N 017 20W	200	490	М	02, 06, 10 ,14, 18, 2200		
	Dakar (6VA)	14-46N 017-20W	200	518	С	00, 04, 08, 12, 16, 2020		
Singapore	Singapore (9VG-49)	01-21N 103-59E	400	518	С	00, 04, 08, 12, 16, 2020		
South Africa	Cape Town (ZSC)	33-40S 018-43E	300	518	С	00, 04, 08, 12, 16, 2020		
	Durban (ZSD)	29-48S 030-49E	300	518	0	02, 06, 10, 14, 18, 2220		
	Port Elizabeth (ZSQ)	34-02S 025-33E	300	518	Ι	01, 05, 09, 13, 17, 2120		
South Korea	Chukpyon (HL)	37-03N 129-26E		490	V	03, 07, 11, 15, 19, 2330		
				518	V	03, 07, 11, 15, 19, 2330		
	Pyonsan (HL)	35-36N 126-29E		490 518	W W	03, 07, 11, 15, 19, 2340 03, 07, 11, 15, 19, 2340		
Spain	Cabo de la Nao (EAV)	38-43N 000-09E	300	490 518	M (Spanish) X	02, 06, 10, 14, 18, 2200 03, 07, 11, 15, 19, 2350		
	Coruna (EAR)	43-22N 008-27W	400	490 518	W (Spanish) D	03, 07, 11, 15, 19, 2340 00, 04, 08, 12, 16, 2030		
	MMSI: 2240992, Phone	: +34 981 20 95 48,	Fax: +34	981 20 9	5 18			
	Tarifa (EAC) 36-01N 005-35W		400	490 518	T (Spanish) G	03, 07, 11, 15, 19, 2310 01, 05, 09, 13, 17, 2100		
	MMSI: 2240994, Telex:	+34 926 68 47 40, I	Phone: +3		-			
Svalbard	Svalbard (LGS)	78-04N 013-37E		518	А	00, 04, 08, 12, 16, 2000		
	Phone: +47 75 52 89 25	, Fax: +47 75 52 58	96, E-mai	l: bodo.r	adio@telenor.com	<u> </u>		

Sweden	Hanosand (SAH)	64-28N 021-36E	300	518	Н	01, 05, 09, 13, 17, 2110

	300C.2 Worldwide NAVTEX Stations								
Country	NAVTEX Coast Station (ID)	Position	Range (NM)	kHz	Transmitter Identification (B ₁) Character	Broadcast Time (UTC)			
	Stockholm (SDJ)	55-29N 014-19E	300	518	J	01, 05, 09, 13, 17, 2130			
	Varberg (SAS)	57-07N 012-24E	300	518	Ι	01, 05, 09, 13, 17, 2120			
Taiwan	Chi-Lung (XSX)	25-09N 121-44E		518	Р	06, 14, 2230			
	Linyan (XSW)	22-29N 120-25E		518	Р	02, 10, 1800			
	Broadcasts are remotely	controlled from Chi	-Lung.						
Thailand	Bangkok (HAS)	13-01N 100-01E	200	518	F	00, 04, 08, 12, 16, 2050			
Tunisia	Tunis (3VX)	36-53N 010-11E		518	V	03, 07, 11, 15, 19, 2330			

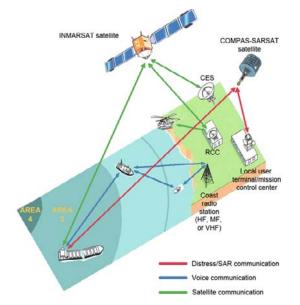
Turkey		26 0001 022 265		490	D (Turkish)	00, 04, 08, 12, 16, 2030
·	Antalya (TAL)	36-09N 032-26E		518	F	00, 04, 08, 12, 16, 2050
	Istanbul (TAH)	41-04N 028-57E	250-	490	B (Turkish)	00, 04, 08, 12, 16, 2010
	Istanbul (IAH)	41-04N 028-37E	400	518	D	00, 04, 08, 12, 16, 2030
	Izmir (TAN)	38-16N 026-16E	250-	490	C (Turkish)	00, 04, 08, 12, 16, 2020
		56-1010 020-10L	400	518	D	01, 05, 09, 13, 17, 2120
	Samsun (TAF)	41-23N 036-11E	250-	490	A (Turkish)	00, 04, 08, 12, 16, 2000
	Samsun (1711)	41 251 050 112	400	518	E	00, 04, 08, 12, 16, 2040
T T1 '		1		400	T T	
Ukraine	Kerch (UUO)	45-22N 036-29E	120	490	U	03, 07, 11, 15, 19, 2320
				518	G	01, 05, 09, 13, 17, 2100
	Odessa (UUT)	46-29N 030-44E	280	490	Х	03, 07, 11, 15, 19, 2350
		10 2911 050 112	200	518	C	00, 04, 08, 12, 16, 2020
	1					
United Kingdom	Cullercoats (GCC)	55-02N 001-26W	270	490	U	07, 1920
				518	G	01, 05, 09, 13, 17, 2100
	_			490	Ι	05, 1720
	Niton (GNI)	50-35N 001-18W	270	490	Т	03, 07, 11, 15, 19, 2310
		50 551 001 10 0	270	518	E	00, 04, 08, 12, 16, 2040
				510	K	01, 05, 09, 13, 17, 2140
	Portpatrick (GPK)	54-51N 005-07W	270	490	С	04, 08, 2020
	Torpatrick (GFK)	54-5110 005-07 W	270	518	0	02, 06, 10, 14, 18, 2220

Uruguay	La Paloma	34-40S 054-09W	280	490	A (Spanish)	00, 04, 08, 12, 16, 2000
	(CWM-27)	34-405 054-09W	200	518	F	00, 04, 08, 12, 16, 2050
	Phone: (598-2) 309 775/3861, Fax: (598-2) 307 1777					

	300C.2 Worldwide NAVTEX Stations								
Country	NAVTEX Coast Station (ID)	Position	Range (NM)	kHz	Transmitter Identification (B ₁) Character	Broadcast Time (UTC)			
Vietnam	Da Nang (XVT)	16-04N 108-13E	400	518	K	01, 05, 09, 13, 17, 2140			
	Hai Phong (XVG)	20-44N 106-44E	400	490	W (Vietnamese)	03, 07, 11, 15, 19, 2340			
	Ho Chi Minh Ville (XVS)	10-47N 106-40E	400	518	Х	03, 07, 11, 15, 19, 2350			

	300C.3 INMARSAT-C Coastal Warnings							
Country	Warning Name	Coverage	Satellite and Times (UTC)					
	AUSCOAST	Northern North Eastern						
Australia	Sea Safety	High Seas C Port Hedand O Port Hedand O Port Hedand O Broken Hill O Broken Hill O Broken Hill O Broken Hill O Broken Hill Sydney C Adelaine Sydney C Melbaume Hooart D South Eastern High Seas	IOR, POR: 0700, 1900					
	NAVAREA V N							
	NAVAREA V E	NORTH						
	NAVAREA V S	AMAZON BASIN						
Brazil	NAVAREA V I	EAST COAST NAVAREA V SOUTH COAST	AOR-E: 0730, 1930					
New	Coastal Navigation Warning (CNW)	New Zealand waters	POR: 0900, 2100					
Zealand	Maritime New Zealand (MNZ)	New Zealand waters	1 510 5700, 2100					

300D. NAVAREA/METAREA Warnings (Sea Areas A3 and A4)



Sea Area 3 is the area that lies between latitude 76 North and 76 South outside of Sea Areas 1 and 2 and uses satellite equipment for communications. Sea Area 4 is the area outside of areas 1, 2, & 3. In parts of the Arctic north of 75N warnings are broadcast via High Frequency Narrow Band Direct Printing (HF NBDP). NAVAREA and METAREA broadcasts cover these areas for ocean-going mariners. See Sea Area 2-Coastal, for coastal broadcasts including NAVTEX and coastal warnings issued via INMARSAT SafetyNET.

300E. NAVAREA Messages (Sea Areas A3 and A4)

NAVAREA Message Criteria

As per the International Maritime Organization and the International Hydrographic Organization guidance documentation, the following subjects are suitable for broadcast as a NAVAREA warning:

- casualties to lights, fog signals, buoys and other aids to navigation affecting main shipping lanes;
- the presence of dangerous wrecks in or near main shipping lanes and, if relevant, their marking;
- establishment of major new aids to navigation or significant changes to existing ones when such establishment or change, might be misleading to shipping;
- the presence of large unwieldy tows in congested waters;
- drifting hazards (including derelict ships, ice, mines, containers, other large items, etc);
- areas where search and rescue (SAR) and anti pollution operations are being carried out (for avoidance of such areas);
- the presence of newly discovered rocks, shoals, reefs and wrecks likely to constitute a danger to shipping, and, if relevant, their making;
- unexpected alteration or suspension of established routes;

- the employment of manned or unmanned submersibles, or other underwater operations constituting potential dangers in or near shipping lanes; the astablishment of research or scientific instruments in
- the establishment of research or scientific instruments in or near shipping lanes;
- the establishment of offshore structures in or near shipping lanes;
- significant malfunctioning of radio-navigation services and shore-based maritime safety information radio or satellite services;
- information concerning special operations which might affect the safety of shipping, sometimes over wide areas, e.g. naval exercises, missile firings, space missions, nuclear tests, ordnance dumping zones etc.;
- acts of piracy and armed robbery against ships;
- tsunamis and other natural phenomena such as abnormal changes to sea level;
- World Health Organization (WHO) health advisory information; and
- security related requirements.
- cable or pipe laying activities, the towing of large submerged objects for research or exploration purposes,

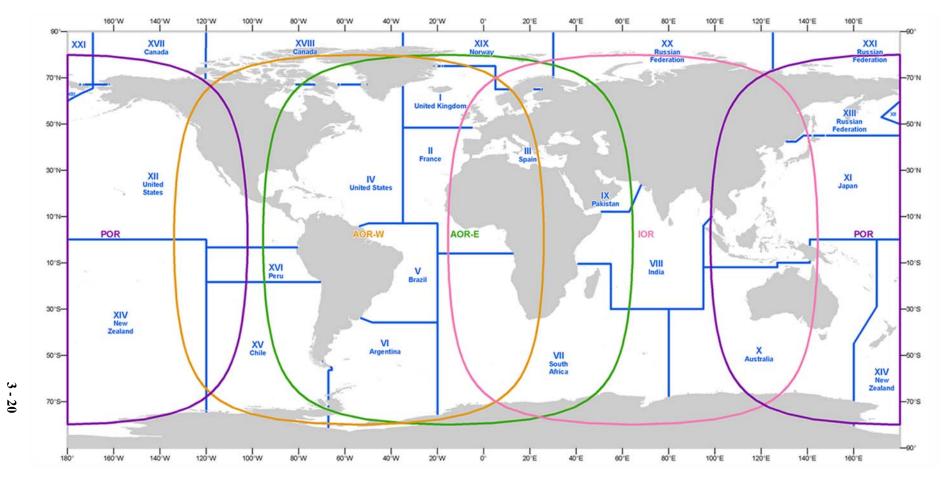
It is important that where the degree of hazard is known, this information is included in the relevant warning. Whenever possible such warnings should be originated not less than five days in advance of the scheduled event and reference may be made to relevant national publications in the warning.

Links to NAVAREA web sites can be found at:

http://www.iho-ohi.net/mtg_docs/com_wg/CPRNW/CPRNW_Misc/RNW_on_the_web.htm

- Note 1: Some NAVAREAs are not available online
- Note 2: The web site for NAVAREA IV & XII is only updated M-F, excluding weekends and Federal Holidays
- Note 3: The navigational warnings obtained using websites does not relieve Masters/Captains of the requirement to receive Navigational Warnings via IMO/IHO approved broadcast systems, as websites are not continuously updated and not necessarily monitored for correctness

	INMARSAT-C LES Stations								
Satellite	SAC	Name of Station	Location	Operator	LES ID				
AOR-E	41	Goonhilly	50-02-53N 005-10-55W	Stratos	102				
AOR-E	41	Southbury	41-27-04N 073-17-20W	Vizada	101				
AOR-E	41	Station 12 (Burum)	53-17-04N 006-12-55E	Stratos	112				
AOR-E	41	Thermopylae	38-49-22N 022-41-10E	Otesat	120				
AOR-E	41	Aussaguel	43-25-45N 001-29-52E	Vizada	121				
AOR-E	41	Fucino	41-58-44N 013-36-07E	Telecom Italia	105				
AOR-E	41	Yamagushi	34-13-00N 131-33-00E	KDDI	103				
AOR-E	41	Nudol	56-06-00N 036-31-00E	Morsviazsputnik	117				
AOR-E	41	Eik (Oslo)	58-32-18N 006-28-03E	Vizada	104				
AOR-W	41	Goonhilly	50-02-53N 005-10-55W	Stratos	002				
AOR-W	41	Southbury	41-27-04N 073-17-20W	Vizada	001				
AOR-W	41	Station 12 (Burum)	53-17-04N 006-12-55E	Stratos	012				
AOR-W	41	Yamagushi	34-13-00N 131-33-00E	KDDI	003				
AOR-W	41	Aussaguel	43-25-45N 001-29-52E	Vizada	021				
AOR-W	41	Eik (Oslo)	58-32-18N 006-28-03E	Vizada	004				
IOR	41	Yamagushi	34-13-00N 131-33-00E	KDDI	303				
IOR	41	Eik (Oslo)	58-32-18N 006-28-03E	Vizada	304				
IOR	41	Thermopylae	38-49-22N 022-41-10E	Otesat	305				
IOR	41	Pune	19-09-03N 073-57-26E	Tata Communications	306				
IOR	1241	Station 12 (formerly Perth)	53-17-04N 006-12-55E	Stratos	312				
IOR	41	Aussaguel	43-25-45N 001-29-52E	Vizada	321				
IOR	41	Sentosa	01-14-51N 103-50-07E	Singapore Telecom	328				
IOR	41	Beijing	40-07-00N 116-13-40E	MCN	311				
IOR	41	Fucino	41-58-44N 013-36-07E	Telecom Italia	335				
IOR	41	Hai Phong	20-48-03N 106-42-38E	Vishipel	330				
IOR	41	Nudol	56-06-00N 036-31-00E	Morsviazsputnik	317				
IOR	41	Goonhilly	50-02-53N 005-10-55W	Stratos	302				
IOR	41	Santa Paula	34-24-06N 119-04-24W	Vizada	301				
POR	41	Yamaguchi	34-13-00N 131-33-00E	KDDI	203				
POR	41	Santa Paula	34-24-06N 119-04-24W	Vizada	201				
POR	41	Sentosa	01-14-51N 103-50-07E	Singaprore Telecom	210				
POR	1241	Station 12 (formerly Perth)	53-17-04N 006-12-55E	Stratos	212				
POR	41	Auckland	36-44-53S 174-41-45E	Stratos	202				
POR	41	Beijing	40-07-00N 116-13-40E	MCN	211				
POR	41	Nakhodka	42-51-32N 132-47-25E	Morsviazsputnik	217				
POR	41	Eik (Oslo)	58-32-18N 006-28-03E	Vizada	204				
POR	41	Aussaguel	43-25-45N 001-29-52E	Vizada	221				



World-Wide Navigational Warning Service NAVAREA Coverage

	WWNWS NAVAREA Boundaries and Contact Information								
NAVAREA	Coverage	Co-ordinator	Satellite & Times	Report MSI (Maritime Safety Information)					
I	North Atlantic Ocean, Greenland coastline along 035W meridian until 48-27N then east to French coastline. 75N 005W south until 65N east to Norwegian coastline (including the North Sea and Baltic Sea sub-area)	United Kingdom	AOR-E: 0530, 1730	UKHO Radio Navigational Warnings Phone: +44 (0) 1823 353448 Fax: +44 (0) 1823 322352 E-mail: navwarnings@btconnect.com					

	WWNWS NAVAREA Boundaries and Contact Information							
NAVAREA	Coverage	Co-ordinator	Satellite & Times	Report MSI (Maritime Safety Information)				
П	Atlantic waters east of 35W, from 7N to 48-27N, and east of 20W from 7N to 6S, including the Straits of Gibraltar	France	AOR-E, AOR-W, IOR: 1630	NAVAREA II, Service hydrographique et oceanographique de la marine (SHOM), 13 rue du Chatellier-B.P. 30316, 29603 Brest Cedex Telex: +42 940861 Phone: +33 (0) 2 98 22 16 67 Fax: +33 (0) 2 98 22 14 32 E-mail: coord.navarea2@shom.fr				
Ш	The Mediterranean and Black Seas, east of the Straits of Gibraltar	Spain	AOR-E: 1200, 2400	Hazard Notice of Navigation (Office of Notices to Mariners) Telex: 76,102- MEDCO-E Phone: +34 956 599 409 Fax: +34 956 599 396 E-mail: avisosihm@fn.mde.es				
IV	Western North Atlantic Ocean eastwards from the North American coast to 35W, from 7N to 67N, including the Gulf of Mexico and Caribbean Sea	USA	AOR-W: 1000, 2200	NGA Navsafety NGA Maritime Safety Office, Attn: WWNWS Mail Stop: N64-SH, 7500 Geoint Dr, Springfield, VA 22150-7500 Phone: 1 571 557 6841, 1 800 362 6289 Fax: 1 571 558 3426 E-mail: navsafety@nga.mil				
V	Atlantic waters west of 20W from 35-50S to 7N, narrowing in the coastal strips at the extremities to Uruguay/Brazil frontier in 33-45S and the French Guyane/Brazil frontier in 4-30N	Brazil	AOR-E: 0030, 1230	NAVAREA V Co-ordinator E-mail: cartografia@chm.mar.mil.br				
VI	South Atlantic & Southern Oceans, south of 35-50S, from 20W to the longitude of Cape Horn, 67-16W	Argentina	AOR-W: 0200, 1400	Servicio de Hidrografia Naval Av. Montes de Oca 2124, CP1270ABV Buenos Aires, Rep. Argentina Phone: (54-11) 4301 0061, (54-11) 4301 0067 Fax: (54-11) 4301 2249 E-mail: snautica@hidro.gov.ar				
VII	South Atlantic and Southern Oceans south of 6S from 20W to the coast of Africa, thence south to the Cape of Good Hope; the South Indian and Southern Oceans south of 10-30S from the Cape to 55E, thence south of 30S to 80E	South Africa	AOR-W, IOR: 1940	SA Navy NAVAREA VII Co-ordinator Hydrographer, Private Bag X1, Tokai 7966, South Africa Telex: 95 527946 (Ans back: NAVY SA) Fax: 021 787 2228 E-mail: ncom.cape@sanavy.co.za				
* High Frequency	Narrow Band Direct Printing (HF NBDP) is used for areas	outside of INMARSAT r	ange	·				

3 - 21

	WWNWS NAVAREA Boundaries and Contact Information							
NAVAREA	Coverage	Co-ordinator	Satellite & Times	Report MSI (Maritime Safety Information)				
VIII	The East African coast along10-30S, thence to 55E, to 30S, to 95E, to 6N, thence NE'wards to the Myanmar/Thailand frontier in 10N 98-30E	India	IOR: 1000	National Hydrographic Office, Maritime Safety Information Service 107-A, Rajpur Road, Dehradun-248001, India Phone: +91 135 2747360 65 Fax: +91 135 2748373 E-mail: ncdm-inho-navy@nic.in				
IX	The Red Sea, Gulf of Aden, Arabian Sea and Persian Gulf, north of Area VIII	Pakistan	IOR: 0800	Hydrographic Department, NAVAREA IX, Naval Headquarters 11, Liaquat Barracks, Karachi-75530, Pakistan Phone: 92 021 48506151-4 Fax: 92 021 9201623 or 9203246 E-mail: hydropk@paknavy.gov.pk				
Х	The South Indian and Southern Oceans east of 80E and south of 30S to 95E, to 12S, to 127E; thence the Timor Sea, South Pacific and Southern Oceans south of 10S to 141E to the equator, to 170E, to 29S, thence SW'wards to 45S in 160E, then the 160E meridian	Australia	IOR, POR: 0700, 1900	NAVAREA X AMSA, GPO Box 2181, Canberra City, ACT 2601 Phone: 1800 641 792, +612 6230 6811 E-mail: go to www.amsa.gov.au/contact_us				
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 Korean/Russian Federation frontier in 42-30N 130E, thence to 135E, NE'wards to 45N 138E, to 45N 180	Japan	IOR, POR: 0005, 0805, 1205	NAVAREA XI, Navigational Warnings Phone: 03 5500 7165 E-mail: tuho@jodc.go.jp				
XII	Eastern part of Pacific Ocean, west of the North and South American coast and east of 120W, from 3-24S to the equator, thence to 180 to 50N thence NW' wards to 53N 172E, NE' wards following the marine frontier between United States and Russian Federation waters to 67N	USA	AOR-W, POR: 1030, 2230	NGA Navsafety NGA Maritime Safety Office, Attn: WWNWS Mail Stop: N64-SH, 7500 Geoint Dr, Springfield, VA 22150-7500 Phone: 1 571 557 6841, 1 800 362 6289 Fax: 1 571 558 3426 E-mail: navsafety@nga.mil				
* High Frequency	Narrow Band Direct Printing (HF NBDP) is used for areas	outside of INMARSAT	range					

3 - 22

WWNWS NAVAREA Boundaries and Contact Information							
NAVAREA	Coverage	Co-ordinator	Satellite & Times	Report MSI (Maritime Safety Information)			
XIII	Sea areas enclosed north of area XI and west of Area XII; also all Arctic waters from 170W westwards to 20E	Russian Federation	POR: 0930, 2130	NAVAREA XIII, Chief, Notice to Mariners Division Department of Navigation and Oceanography, Ministry of Defense, 8, 11 liniya, B-34, St Petersburg, 199034, Russian Federation Phone/Fax: +7 812 717 59 00 E-mail: navarea13@gunio.ru			
XIV	The South Pacific and Southern Oceans, along equator to 170E south to 29S, 45S 160E south to Antarctica; The equator south along 120 W meridian to Antarctica	New Zealand	POR: 0900, 2100	NAVAREA XIV Co-ordinator Phone: +64 4 460 0110 Fax: +64 4 460 0161 E-mail: NAVAREAXIV@linz.govt.nz			
XV	The South Pacific and Southern Oceans south of 18-21S following the coast of Chile to the longitude of Cape Horn in 67-16W and 120W	Chile	AOR-W: 0210, 1410	NAVAREA XV Servicio Hidrografico y Oceanografico de la Armada de Chile, Casilla 324, Valparaiso, Chile Phone: +56 32 226666, 2266520 Fax: +56 32 2266542 E-mail: shoa@shoa.cl			
XVI	The South Pacific Ocean between 18-21S and 3-24S bounded by the coast of Peru and 120W	Peru	AOR-W: 0519, 1119, 1719, 2319	Chief of NAVAREA Office Phone: (51) 613-6767 Annex 6480 Fax: (51) 613-6759 E-mail: rrojas@dhn.mil.pe			
XVII	The Arctic Ocean, 67-00N 168-58W east to Alaskan coast and north to 90-00N; 90N, 120W south to Canadian coastline		POR: 1130, 2330 HF(NBDP)*: 0330, 1530	MCTS Iqaluit (Jun-Nov) PO Box 189, Iqaluit, NV, X0A 0H0 Phone: 867 979 5269			
XVIII	The Arctic Ocean, 67-00N 168-58W east to		AOR-W: 1100, 2300 HF(NBDP)*: 0330, 1530	 Fax: 867 979 4264 Northern Canada Vessel Traffic Services Zone (NORDREG) Telex: 063 15529 Phone: 867 979 5724 Fax: 867 979 4264 E-mail: iqanordreg@innav.gc.ca MCTS Prescott (off season contact) Phone: 613 925 4519 Fax: 613 925 4519 E-mail: iqanordreg@innav.gc.ca 			

3 - 23

WWNWS NAVAREA Boundaries and Contact Information						
Coverage	Co-ordinator	Satellite & Times	Report MSI (Maritime Safety Information)			
The Arctic Ocean, boarders XVII at 035W; Norwegian coastline 65N west to 65N 005W, north to 75N, west to Greenland coastline; the border between Norway and Russia to 69-47-68N 030-49-16E, 69-58-48N 031-06-24E, 70-22-00N 031-43-00E, 71-00-00N 030-00-00E north to 90N	Norway	AOR-E: 0630, 1830	NAVAREA XIX, Vardoe VTS Center Phone: +47 78 94 30 00 Fax: +47 78 98 98 99 E-mail: navarea19@kystverket.no			
The Arctic Ocean, from the border between Norway and Russia to 69-47-68N 030-49-16E, 69-58-48N 031-06-24E, 70-22-00N 031-43-00E, 71-00-00N 030-00-00E north to 90N. 90N south to Russian coastline along 125E meridian	Russian	IOR: 0530, 1730 HF(NBDP)*: 0530, 1730	NAVAREA XX and NAVAREA XXI The Russian Federation, Chief of MSI Division, Federal State Unitary Hydrographic Department, Moskovsky pr. 12, St Petersburg, 190031,			
The Arctic Ocean, from Russian coastline north along 125E meridian to 90N, 90N 168-58W south along 168-58W meridian to 67N, west to Russian coastline	recertation	POR: 0630, 1830 HF(NBDP)*: 0630, 1830	Russian Phone/Fax: +7 812 570 3466 E-mail: ibm@hydrograph.spb.su			
	CoverageThe Arctic Ocean, boarders XVII at 035W; Norwegian coastline 65N west to 65N 005W, north to 75N, west to Greenland coastline; the border between Norway and Russia to 69-47-68N 030-49-16E, 69-58-48N 031-06-24E, 70-22-00N 031-43-00E, 71-00-00N 030-00-00E north to 90NThe Arctic Ocean, from the border between Norway and Russia to 69-47-68N 030-49-16E, 69-58-48N 031-06-24E, 70-22-00N 031-43-00E, 71-00-00N 030-00-00E north to 90N. 90N south to Russian coastline along 125E meridianThe Arctic Ocean, from Russian coastline north along 125E meridian to 90N, 90N 168-58W south along 168-58W meridian to 67N, west to Russian	CoverageCo-ordinatorThe Arctic Ocean, boarders XVII at 035W; Norwegian coastline 65N west to 65N 005W, north to 75N, west to Greenland coastline; the border between Norway and Russia to 69-47-68N 030-49-16E, 69-58-48N 031-06-24E, 70-22-00N 031-43-00E, 71-00-00N 030-00-00E north to 90NNorwayThe Arctic Ocean, from the border between Norway and Russia to 69-47-68N 030-49-16E, 69-58-48N 031-06-24E, 70-22-00N 031-43-00E, 71-00-00N 030-00-00E north to 90N. 90N south to Russian coastline along 125E meridianRussian FederationThe Arctic Ocean, from Russian coastline north along 125E meridian to 90N, 90N 168-58W south along 168-58W meridian to 67N, west to RussianRussian	CoverageCo-ordinatorSatellite & TimesThe Arctic Ocean, boarders XVII at 035W; Norwegian coastline 65N west to 65N 005W, north to 75N, west to Greenland coastline; the border between Norway and Russia to 69-47-68N 			

High Frequency Narrow Band Direct Printing (HF NBDP) is used for areas outside of INMARSAT range

3 - 24

IHO Commission on Promulgation of Radio Navigational Warnings-Chairman contact information:

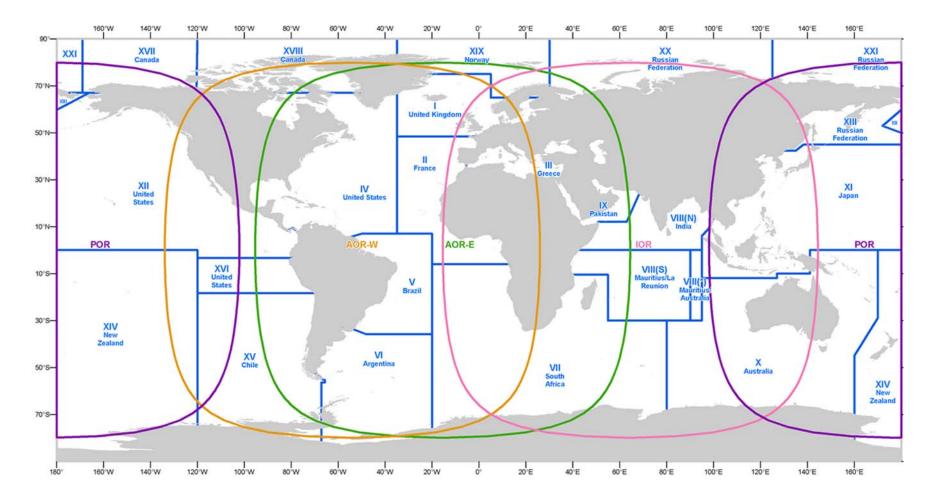
Address: IHO Commission on Promulgation of Radio Navigational Warnings Chairman, 4 quai Antoine 1er, B.P. 445, MC 98011 MONACO CEDEX, Principality of Monaco

- Telex: 479164 MC INHORG
- Telephone: 337 93 10 81 00

Facsimile: 337 93 10 81 40

E-mail: info@ihb.mc

Web site: http://www.iho.shom.fr



World-Wide Navigational Warning Service METAREA Coverage

Marine meteorological information is broadcast to ships at sea using the INMARSAT-C SafetyNET service using Enhanced Group Calling (EGC). There are 21 METAREAs and four INMARSAT-C satellites for world-wide coverage.

To obtain METAREA messages other than automatically via GMDSS:

Website: http://weather.gmdss.org

Note 1: some METAREAs are not available online

Note 2: The meteorological warnings obtained using websites does not relieve Masters/Captains of the requirement to receive Navigational Warnings via IMO/IHO approved broadcast systems, as websites are not continuously updated and not necessarily monitored for correctness

METAREA	Coverage	Co-ordinator	Satellite & Times (UTC)	Contact
Ι	North Atlantic Ocean, Greenland coastline along 035W meridian until 48-27N then east to French coastline. 75N 005W south until 65N east to Norwegian coastline (including the North Sea and Baltic Sea sub-area)	United Kingdom & Northern Ireland	AOR(E): 0930, 2130	Mr Nick Ashton Address: Met Office, 127 Clerkenwell Rd, Londo EC1R 5LP, United Kingdom Phone: +44 1392 885402 Fax: +44-20 720 7479 E-mail: nick.ashton@metoffice.gov.uk
Π	Atlantic waters east of 35W, from 7N to 48-27N, and east of 20W from 7N to 6S, including the Straits of Gibraltar	France	AOR(E/W): 0900, 2100	Mr Henri Savina Address: Meteo-France Direction de la Prevision Division Marine et Oceanographie, 42 avenue Gaspard Coriolis, 31057 Toulouse, Cedex 1, Fran Phone: +33-5 61 07 82 91 Fax: +33-5 61 07 82 09 E-mail: henri.saving@metro.fr
III	The Mediterranean and Black Seas, east of the Straits of Gibraltar	Greece	AOR(E): 1000, 2200	Mr Michael Myrsilidis Head, Marine Meteorology Section, Hellenic National Meteorological Service, El. Venizelou 1 16777 Athens, Greece Phone: +30 210 9699013 Fax: +30 210 9628952 E-mail: mmirsi@hnms.gr
IV	Western North Atlantic Ocean eastwards from the North American coast to 35W, from 7N to 67N, including the Gulf of Mexico and Caribbean Sea	USA	AOR(W) ¹ : 0430, 1030, 1630, 2230	Mr Timothy Rulon Marine & Coastal Weather Services, National Weather Service/NOAA, 1325 East-West Hwy, Silver Spring, MD 20910, USA Phone: +1 301 713 1677 (ext 128) Fax: +1 301 713 1520 E-mail: timothy.rulon@noaa.gov
V	Atlantic waters west of 20W from 35-50S to 7N, narrowing in the coastal strips at the extremities to Uruguay/Brazil frontier in 33-45S and the French Guyane/Brazil frontier in 4-30N	Brazil	AOR(E): 0730, 1930	Lieutenant Commander Marcelo Fricks Cavalcante Centro de Hidrografia da Marinha, Divisao de Informacoes Oceanograficas, Rua Barao de Jaceg S/N, Ponta d'Areia, Niteroi-RJ, CEP 24048-900, de Janeiro, Brazil Phone: (55)(21) 2189 3025 Fax: (55)(21) 2189 3226 E-mail: marcelo@chm.mar.mil.br

METAREA	Coverage	Co-ordinator	Satellite & Times (UTC)	Contact
VI	South Atlantic & Southern Oceans, south of 35-50S, from 20W to the longitude of Cape Horn, 67-16W	Argentina	AOR(W): 0230, 1730	Mr Claudio David Castro Servicio Meteorologico Nacional, 25 de Mayo 658 1002 BUENOS AIRES, Argentina Phone: +54 11 5167 6711/09 Fax: +54 11 4555 3808 E-mail: aliciagcejas@hotmail.com, susyb@smm.gov.ar
VII	South Atlantic and Southern Oceans south of 6S from 20W to the coast of Africa, thence south to the Cape of Good Hope; the South Indian and Southern Oceans south of 10-30S from the Cape to 55E, thence south of 30S to 80E	South Africa	AOR(E) (west of 20E): 0940, 1940 IOR ² (east of 20E): 0940, 1940	Mr Johan Stander Regional Manager, South African Weather Service Head Office, Weather Office, PO Box 21, Cape Town International Airport, Cape Town 7525 Sout Africa Phone: + 27 (21) 934 0450 (office), + 27 (83) 281 0993 (mobile) Fax: + 27 (21) 934 4590 E-mail: johan.stander@weathersa.co.za
VIII(N)	North of the Equator: The area of the Indian Ocean enclosed by lines from the Indo-Pakistan frontier in 23-45N 68E to 12N 63E, thence to Cape Gardafui; the east African coast south to the Equator, thence to 95E, to 6N, thence NE'wards to the Myanmar/Thailand frontier in 10N 98-30E	India	IOR: 0900, 1800	Mr M.C. Rastogi India Meteorological Department, Mausam Bhavar Lodi Road, NEW DELHI 110 003, India Phone: +91-11 246 2 4486 Fax: +91-11 246 9 9216, +91-11 246 2 3220 E-mail: rastogi@imdmail.gov.in
VIII(S)	South of the Equator: The East African coast from the equator south to 10-30S, thence to 55E, to 30S, to 90E, to the Equator, to the east African coast	Mauritius/ La Reunion (via France)	IOR: 0130, 1330	Mr Mohamudally Beebeejaun, Divisional Meteorologist Mauritius Meteorological Services, Saint Paul Rd, VACOAS, Mauritius Phone: +230 686 1031 Fax: +230 686 1033 E-mail: mbeebeejaun@mail.gov.mu
VIII(*)	Tropical Cyclone warnings: East of 90E	La Reunion (via France)	IOR (as needed): 0000, 0600, 1200, 1800	Mr Paul Remois Meteo France, Paris BP 4, 97491 STE. CLOTILD France Phone: +33-2 62 92 11 00 Fax: +33-2 62 93 11 47 E-mail: paul.remois@meteo.fr

		WWNWS ME	TAREA Boundaries	s and Contact Information	n
M	ETAREA	Coverage	Co-ordinator	Satellite & Times (UTC)	Contact
	IX	The Red Sea, Gulf of Aden, Arabian Sea and Persian Gulf, north of Area VIII	Pakistan	IOR: 0700	Mr Sarfaraz Kahn, Director General Pakistan Meteorological Department, University Road, Karachi-75270, Pakistan Phone: 8 499 252 45 11 Fax: 8 499 795 20 90 E-mail: arifmahmood1984@hotmail.com, sarfarazmet@hotmail.com
	Х	The South Indian and Southern Oceans east of 80E and south of 30S to 95E, to 12S, to 127E; thence the Timor Sea, South Pacific and Southern Oceans south of 10S to 141E to the equator, to 170E, to 29S, thence SW'wards to 45S in 160E, then the 160E meridian	Australia	IOR: 1030, 2330 POR: 1100, 2300	Mr Neal Moodie, National Manager Marine Weather Service, Australian Bureau of Meteorology, 700 Collins St, Docklands, GPO Box 1289, Melbourne, VIC 3001, Australia Phone: +61-3 9 669 4768 Fax: +61-3 9 669 4695 E-mail: N.Moodie@bom.gov.au
		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 Korean/Russian Federation frontier in 42-30N 130E, thence to 135E, NE' wards to 45N 138E, to 45N 180	China	IOR: 0330, 1015, 1530, 2215	Mr Bi Baogui China Meteorological Administration, Baishiqiaolu No. 46, 100081 Haidian District, Beijing, China Phone: +86-10 6840 7205 Fax: +86-10 6217 2962 E-mail: bibg@cma.gov.cn
	XI		Japan	POR: 0230, 0830, 1430, 2030	Mr Naoyuki Hasegawa Head, Office of International Affairs, Japan Meteorological Agency, Tokyo, 1-3-4 Otemachi Chiyoda-ku, 100-8122, Tokyo, Japan Phone: +81-3 3211 4966 Fax: +81-3 3211 2032 E-mail: jao-jma@met.kishou.go.jp
			Australia (south of equator)	POR: 0815, 2015	Mr Neal Moodie, National Manager Marine Weather Service, Australian Bureau of Meteorology, 700 Collins St, Docklands, GPO Box 1289, Melbourne, VIC 3001, Australia Phone: +61-3 9 669 4768 Fax: +61-3 9 669 4695 E-mail: N.Moodie@bom.gov.au

	WWNWS ME	TAREA Boundaries	and Contact Information	n
METAREA	Coverage	Co-ordinator	Satellite & Times (UTC)	Contact
XII	Eastern part of Pacific Ocean, west of the North and South American coast and east of 120W, from 3-24S to the equator, thence to 180 to 50N thence NW'wards to 53N 172E, NE'wards following the marine frontier between United States and Russian Federation waters to 67N	USA	AOR-W, POR ¹ : 0545, 1145, 1745, 2345	Mr Timothy Rulon Marine & Coastal Weather Services, National Weather Service/NOAA, 1325 East-West Hwy, Silver Spring, MD 20910, USA Phone: +1 301 713 1677 (ext 128) Fax: +1 301 713 1520 E-mail: timothy.rulon@noaa.gov
XIII		Russian Federation	POR: 0930, 2130	Mr Valeriy Martyschenko, Deputy Director Federal Service for Hydrometeorology and Environmental Monitoring, Moscow, Novovagankovsky Per., 12 Moscow, Russian Federation 123995 Phone: 8 499 252 45 11 Fax: 8 499 795 20 90 E-mail: martyschenko@mcc.mecom.ru
XIV	The South Pacific and Southern Oceans, along equator 170E south to 29S, 45S 160E south to Antarctica; The equator south along 120 W meridian to Antarctica	New Zealand	POR: 0130 ³ , 0330 ⁴ , 0930, 1330 ³ , 1530 ⁴ , 2130	Mr Steve Ready Meteorological Service of New Zealand, 30 Salamanca Rd, Kelburn, Wellington 6012, New Zealand Phone: +64 4 470 0737 Fax: +64 4 473 5231 E-mail: steve.ready@metservice.com
XV	The South Pacific and Southern Oceans south of 18-21S following the coast of Chile to the longitude of Cape Horn in 67-16W and 120W	Chile	AOR-W:1845	Captain de Fragata, Gonzalo Espinosa Doggenweiler Jefe Servicio, Meteorologico de la Armada, Subida Cementerio 300, Playa Ancha, Valparaiso, Chile Phone: +56 32 220 8620 Fax: +56 32 814019
XVI	The South Pacific Ocean between 18-21S and 3-24S bounded by the coast of Peru and 120W	USA	AOR-W: 0515, 1115, 1715, 2315	Mr Timothy Rulon Marine and Coastal Weather Services, National Weather Service/National Oceanic and Atmospheric Administration, 1325 East-West Hwy, Silver Spring, MD 20910, USA Phone: +1 301 713 1677 (ext 128) Fax: +1 301 713 1520 E-mail: timothy.rulon@noaa.gov

¹ High Seas forecasts containing tropical storm warnings also broadcast over AOR-E. Hurricane & Tropical Storm advisories are sent as required, up to 4 times daily per active tropical storm. Tsunami warnings are sent as required on AOR-W and AOR-E.

³ In local time & NZ coast only. The Bass Strait bulletins are Coastal Warnings and Forecasts transmitted on to SafetyNET Coastal Area D in Navarea X.

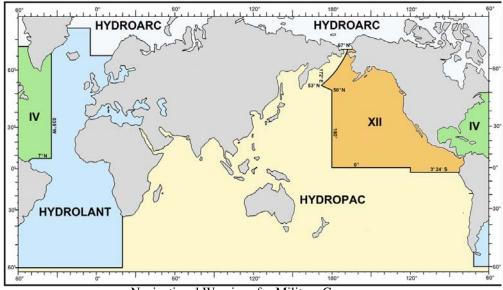
⁴ Storm warnings only.

METAREA	Coverage	Co-ordinator	Satellite & Times (UTC)	Contact
XVII	The Arctic Ocean, 67-00N 168-58W east to Alaskan coast and north to 90-00N; 90N, 120W south to Canadian coastline	Canada⁵	POR: 0300, 1500 8416.5 kHz ⁶ : 0330, 1530	Mr John Parker, Canadian METAREAs Coordinator Meteorological Service of Canada Environment Canada, 45 Alderney Dr, Dartmouth (Nova Scotia
XVIII	The Arctic Ocean, 90-00N 120-00W south to Canadian coastline; 90N 035-00W, northern boarder of IV is along 67N	Canada	AOR-W: 0300, 1500 8416.5 kHz ⁷ : 0330, 1530	B2Y 2N6, Canada Phone: +1 902 426 3836 Fax:+1 902 490 0259 E-mail: john.k.parker@ec.gc.ca
XIX	The Arctic Ocean, boarders XVII at 035W; Norwegian coastline 65N west to 65N 005W, north to 75N, west to Greenland coastline; the border between Norway and Russia to 69-47-68N 030-49-16E, 69-58-48N 031-06-24E, 70-22-00N 031-43-00E, 71-00-00N 030-00-00E north to 90N	Norway	AOR-E: 1100, 2300	Mr Helge Tangen Norwegian Meteorological Institute, Forecasting Division of Northern Norway, (Vervarslinga for Nord-Norge) P.box 6314, N-9293 Tromso, Norwa Phone: +47 77 62 13 00 Fax: +47 77 62 13 01 E-mail: helge.tangen@met.no
XX	The Arctic Ocean, from the border between Norway and Russia to 69-47-68N 030-49-16E, 69-58-48N 031-06-24E, 70-22-00N 031-43-00E, 71-00-00N 030-00-00E north to 90N. 90N south to Russian coastline along 125E meridian	Russian Federation	IOR, POR: 0600, 1800	Mr Valeriy Martyschenko, Deputy Director Federal Service for Hydrometeorology and Environmental Monitoring, Moscow, Novovagankovsky Per., 12 Moscow, Russian Federation 123995
XXI	The Arctic Ocean, from Russian coastline north along 125E meridian to 90N, 90N 168-58W south along 168-58W meridian to 67N, west to Russian coastline	rederation		Phone: 8 499 252 45 11 Fax: 8 499 795 20 90 E-mail: martyschenko@mcc.mecom.ru

⁵ The USA issues marine forecasts for its jurisdictional coast and offshore waters north of Alaska.

⁶North of 75N and east of 141W (Sea Area A4) are broadcast by Canadian Coast Guard from Iqaluit via High Frequency Narrow Band Direct Printing (HF NBDP) during the operational season.

⁷North of 75N (Sea Area A4) are broadcast by Canadian Coast Guard from Iqaluit via High Frequency Narrow Band Direct Printing (HF NBDP) during the operational season.



Navigational Warnings for Military Coverage

In support of the Global Maritime Distress and Safety System (GMDSS), Broadcast Warnings are promulgated by the Worldwide Navigational Warning Service (WWNWS) to provide information critical to navigation and safety of life at sea. NGA NAVSAFETY disseminates this information via various message types through the Automated Message Handling System (AMHS) using a Plain Language Address (PLA) to afloat and shore units. There are no specific broadcast times; however, within 30 minutes of receipt of a source message and analysis, it may be broadcast as a NAVAREA IV, HYDROLANT, NAVAREA XII, HYDROPAC and/or HYDROARC warning. Coastal NAVTEX messages and weather forecasts and warnings are not retransmitted via AMHS.

		To start receiving these messages send (not an email service). Please include the PLA that needs to be added.			
Message Type	Description	E-mail to NGA NAVSAFETY at navsafety@nga.mil requesting to be added to	Message to our PLA "NGA NAVSAFETY (UC)" requesting to be added to		
HYDROLANT	For vessels traveling in area shown on graphic above. Distress messages within NAVAREA IV are sent as HYDROLANT messages.	AL 4501 or AIG 4501	AL 4501 or AIG 4501		
NAVAREA IV	These are the messages broadcasted on the GMDSS, this doesn't include local and coastal warnings from the U.S. Coast Guard and distress messages.	AL 4501 01 AIG 4501	AL 4501 01 AIG 4501		
HYDROPAC	For vessels traveling in area shown on graphic above, including all of Antactica. Distress messages within NAVAREA XII are sent as HYDROPAC messages.	AL 4557 or AIG 4557	AL 4557 or AIG 4557		
NAVAREA XII	These are the messages broadcasted on the GMDSS, this doesn't include local and coastal warnings from the U.S. Coast Guard and distress messages.	AL +337 01 ALC +337	AL 4337 61 AIG 4337		
HYDROARC	For vessels traveling in the Arctic.	HYDROARC distribution	HYDROARC distribution		

300H. U.S. Maritime Advisory System

The Maritime Security Inter-agency Policy Committee agreed to an examination of the processes by which the U.S. Government notifies the U.S. maritime industry, including U.S mariners, of identified threats. A multi-agency examination of the current notification process highlighted the need for an updated, expeditious, inter-agency coordinated U.S government process for notifying threats to U.S mariners and other stake holders. The examination which included a review of the now-superseded 1976 Memorandum of Understanding (MOU) between the Departments of State, Defense, Commerce, and the Central Intelligence Agency, culminated in the development of the Maritime Operational Threat Response (MOTR) Plan.

To facilitate prompt and accurate notification to the U.S. maritime industry of identified threats, the Department of State's "SPECIAL WARNINGS TO MARINER," the Department of Transportation's "U.S. MARITIME ALERTS AND ADVISORIES," and the Department of Homeland Security's global "MARINE SAFETY INFORMATION BULLETINS" have been combined to form a single U.S Maritime Advisory System. This new U.S Maritime Advisory System consists of two distinct notifications: a U.S Maritime Alert and a U.S Maritime Advisory. Coordination under this plan will occur in accordance with the Maritime Operational Threat Response (MOTR) Plan and its protocols.

It is in the interest of national security for the U.S. Government to inform the U.S. Maritime industry expeditiously when a threat to its interest is identified. Such incidents may include but are not limited to:

-Threats by foreign military forces;

-Threats by other military, insurgent, terrorist, or criminal agents;

-A declaration of hostilities affecting U.S-flagged vessels and/or persons;

-A failure to recognize the sovereign immunity of the U.S Government vessels, including training ships and U.S. Government-chartered vessels;

-Threats to seize U.S.-flagged vessels for contraband, sanctions, or other allegations;

-Excessive maritime claims, e.g. unlawful territorial sea claims;

-Temporary closures of internationally recognized sea lanes;

-Other unusual circumstances inconsistent with international law or standard international maritime practice; or -Other immediate and significant maritime security threats or events.

<u>U.S Maritime Alert</u>: A "U.S. Maritime Alert" provides basic information on maritime threats to the U.S. maritime industry and is limited to information on who, what, when and where of a maritime security incident. In some situations, it may be necessary to issue such a message to refute unsubstantiated claims. A Maritime Alert is silent on policy statements and devoid of recommendations for specific course of action. A Maritime Alert may be followed by a U.S. Maritime Advisory that elaborates of specific threat information as it becomes available. The goal is to release a Maritime Alert within two hours of a threat notification, or a soon as possible thereafter. A Maritime Alert will expire in seven days unless re-issued, and may be followed by a subsequent Maritime Alert or Advisory.

<u>U.S. Maritime Advisory</u>: A "U.S. Maritime Advisory" provides detailed information on maritime threats to the U.S. Maritime industry. A Maritime Advisory describes the nature of the maritime security incident, including specific U.S. Government guidance on specific recommended courses of action. The goal is to release a U.S. Maritime Advisory as soon as possible following threat notification. The Advisory should normally be limited to one page or less, with hyper links to any amplifying information. U.S. Maritime Advisories are in effect for six months from the date of issuance, unless revoked or extended by the C2G, and may precede or follow the issuance of a U.S. Maritime Alert.

MSCI Portal: MARAD hosts a public-facing website where current and archived U.S. Maritime Alerts and Advisories are posted upon release by NGA. This website contains a description of the U.S. Maritime Alerts and Advisory System and additional instructions for reporting identified threats to the U.S maritime industry.

To obtain U.S Maritime Alerts/Advisories:				
E-mail to	NGA NAVSAFETY at navsafety@nga.mil requesting to be added to the U.S Maritime Advisory distribution. Please include the PLA that needs to be added.			
Message to	PLA "NGA NAVSAFETY (UC)" requesting to be added to the U.S Maritime Advisory distribution. Please include the PLA that needs to be added.			
World-Wide Web	https://msi.nga.mil/NavWarnings and select "U.S Maritime Advisory System"			

300I. North American Ice Service Iceberg Information and Services



The North American Ice Service (NAIS), a partnership comprised of the International Ice Patrol (IIP), the Canadian Ice Service (CIS), and the U.S. National Ice Center (USNIC), with support from the Danish Meteorological Institute (DMI) and the National Weather Service - Alaska Region, provides year-round maritime safety information on iceberg and sea ice conditions in the vicinity of the Grand Banks of Newfoundland and the east coast of Labrador, Canada. The daily NAIS Iceberg Limit, valid for 0000 UTC day, is distributed as a NAVAREA IV (*see section 300E*) warning in the format of a text Iceberg Bulletin. A Graphic Iceberg Chart is also published daily in accordance with Table 1 below.

The purpose of the NAIS Iceberg Bulletin and Chart is to advise mariners of the estimated iceberg extent within the region. On the Chart, numbers within each grid 1° latitude x 1° longitude grid sector inside the Iceberg Limit are intended to provide mariners an awareness of the relative density of icebergs. For more information on the Iceberg Bulletin and Iceberg Chart visit https://www.navcen.uscg.gov/iipCharts. NAIS reconnaissance is focused near the Grand Banks of Newfoundland and the east coast of Labrador, ice conditions south of Greenland are monitored by (NANWARN) (For iceberg conditions south of Greenland visit http://www.dmi.dk/dmi/en/gronland/iskort.htm. While NAIS strives to be as accurate as possible in reporting the presence of icebergs to mariners, it is not possible to ensure that all icebergs are detected and reported. There is no substitute for due vigilance and prudent seamanship, especially when operating near sea ice and icebergs.

Reports of icebergs in the North Atlantic originate from various sources, including passing ships, reconnaissance flights, and spaceborne reconnaissance. Once position, time, size, and shape of icebergs sighted are received, the data is entered into a computer model that predicts iceberg drift and deterioration. As the time after sighting increases, so does the uncertainty in estimated positions. This uncertainty is taken into account when the Iceberg Limit is determined.

If an iceberg or radar target is detected and reported

outside the published NAIS Iceberg Limit, a Navigational Warning (NAVWARM) will be sent by the Canadian Coast Guard Marine Communications and Traffic Service (MCTS) and an urgent NAVAREA IV message will be distributed on SafetyNET via the U.S. National Geospatial-Intelligence Agency (NGA) as the NAVAREA IV Coordinator. These warnings will remain in effect for 24 hours. Iceberg products will be revised shortly after notification between 1200Z and 0000Z or by 1400Z if reported between 0000Z and 1200Z.

Ships are encouraged to immediately report sightings of icebergs or stationary radar targets that may likely be icebergs to the nearest Canadian Coast Guard MCTS Station or through INMARSAT using Service Code 42, as there is no charge when using this code. See Table 2 below for MCTS contact information. Vessels participating in a Voluntary Observing Ship (VOS) program should continue to report weather and sea surface temperature (SST) to their respective programs. Vessels interested in providing weather and SST reports to U.S. National Oceanic and Atmospheric Administration's VOS program can contact vos@noaa.gov or visit http://www.vos.noaa.gov for guidance.

When making iceberg reports, please include SHIP NAME and CALL SIGN, ZULU TIME, SHIP POSITION (latitude, longitude), COURSE, SPEED, VISIBILITY, ICEBERG/RADAR TARGETS POSITION (Specify either the geographic coordinates or range/bearing from ship's position), ZULU TIME OF SIGHTING, METHOD OF DETECTION (Visual, Radar, or Both), LENGTH (in meters) (see Table 4 below), SHAPE OF ICEBERG (see Table 3 below), and VESSEL CONTACT INFORMATION.

International Ice Patrol in New London, CT



Phone: 860 271 2626 Fax: 860 271 2773 E-mail: iipcomms@uscg.mil Web: https://www.navcen.uscg.gov/II

Office Hours: 1200Z-0000Z

Canadian Ice Service in Ottawa, ON



Phone: 613 971-2090 E-mail: cis-scg.client@ec.gc.ca Web: http://www.ice-glaces.ec.gc.ca Office Hours: 0730-1730 EST

Table 1: NAIS Broadcasts						
Transmission Means	Broadcast Station	Broadcast Times (UTC)	Additional Information			
	NAIS NAVAREA IV	ICEBERG BULLETIN				
SafetyNET Broadcasts as NAVAREA IV messages	AOR-W Satellite	1000, 2200 Urgent Broadcasts of targets outside limits sent upon receipt	SafetyNET			
NAVTEX Broadcast	Canadian CG Marine Communications and Traffic Service St. John's/VON	1820 (Winter), 2220 (Summer) *Changes with DST Urgent Broadcasts of targets outside limits sent upon receipt	518 Khz F1B			
SITO/NBDP	USCG Communication Station	0140-0230	6314, 8416.5, 12579 Khz F1B			
Broadcast	Boston/NMF	1630-1720	08416.5, 12579, 16806.5 Khz F1B			
	International Ice Patrol Website		http://www.navcen.uscg.gov/iip			
Internet	Automated e-mail	Updated daily by 2200	https://radioaid.rdc.uscg.gov/mail man/listinfo/iceberg_bulletin			
	National Geospatial-Intelligence Agency Website		https://msi.nga.mil			
	NAIS ICE	BERG CHART	·			
	USCG Communication Station	0438, 1039	4235, 6340.5, 9110 Khz F3C			
	Boston/ NMF	1600, 2239	6340.5, 9110, 12750 Khz F3C			
Radio Facsimile Broadcast	Diamath and DDV		3855, 7880, 13882.5 Khz F1C			
	Canadian CG Marine Communications and Traffic Service Sydney/VCO	1741	6915.10 Khz J3C			
	International Ice Patrol Website		http://www.navcen.uscg.gov/iip			
	Automated e-mail	Updated daily by 2200	https://radioaid.rdc.uscg.gov/mail man/listinfo/iceberg_bulletin			
	National Weather Service Website	opulated daily by 2200	http://www.weather.noaa.gov/pub/ fax/PIEA88.gif			
Internet	E-mail on demand*		ftpmail@ftpmail.nws.noaa.gov			
	*To prompt e-mail on demand:	Subject line- anything	Body (case sensitive)- open cd fax "get piea88.gif"or "get piea88.tif" quit			
	FI	CN10				
Radio Telephone	Canadian CG Marine Communications and Traffic	0107, 0907, 1907 and as required	2589 Khz J3E			
*	Service St. Anthony/VCM	Continuous	VHF Channel 21B and 83B			

Table 2: Report Receiving Stations				
The following Canadian Coast Guard Marine Communications & Traffic Service (MCTS) Centers (Receiving Station) monitor and transmit on VHF 16 & HF 2182 J3E: Bold indicates the Coast Guard Radio call name				
St. Johns NL (VON)St. Anthony NL (VCM)Phone: 709 772 2106Phone: 709 454 3852E-mail: ecaregsnf@innav.gc.caE-mail: ecasny@innav.gc.ca				
Labrador NL (VOK)Placentia NL (VCP)Phone: 709 896 2252Phone: 709 227 2181E-mail: ecagoy@innav.gc.caE-mail: ecapla@innav.gc.ca				
Port aux Basques NL (VOJ) Phone: 709 695 2167 E-mail: paxtfc@innav.gc.ca	Sydney NS (VCO) Phone: 902 564 7751 E-mail: ccgops@elsmail.net			
Dartmouth/Halifax NS (VCS)Saint John/Fundy NB (VAR)Phone: 902 426 9750Phone: 506 636 4696E-mail: ccgops@elsmail.netE-mail: ccgops@elsmail.net				
	e.shtml for instructions on sending INMARSAT r all iceberg reports use access code 42.			

	Table 3: Iceberg Shapes							
Shape	Example	Description	Shape	Example	Description			
Tabular		Flat topped iceberg with length-height ratio greater than 5:1	Non-Tabular	120	Does not meet any of the below characteristics			
Domed		Rounded top	Pinnacled	1 and	At least 1 spiral or pyramid on it			
Wedged		Steep vertical side on 1 end and sloping on the other	Dry-dock		Eroded with U-shaped slot or channel			
Blocky		Flat top with vertical sides	Ice Island		Very large ice flows			

Table 4: Iceberg Size							
Very Large Large Medium Small Bergy Growle Bit							
Description	Heigh	t		Length			
Growler	< 1m			< 5m			
Bergy Bit	1 to < 5	m	5	to < 15m			
Small Iceberg	5 to 15	m	1	5 to 60m			
Medium Iceberg	16 to 45	m	6	1 to 120m	1		
Large Iceberg	46 to 75	m	12	21 to 200r	n		
Very Large Iceberg	> 75m	1		> 200m			

300J. International Ice Warnings

Information About Ice Conditions (Outside of Northwest Atlantic Region)		
Country	Authority	Contact information
Denmark	Danish Ice Service	Phone: +45 89433412/89433099 Fax: +45 89433427 E-mail: opsstaff@sok.dk Web: http://www.forsvaret.dk/SOK
Estonia	Estonian Meteorological & Hydrological Institute (EMHI)	Phone: +372 6660914 Fax: +372 6660911 E-mail: mere@emhi.ee Web: http://www.emhi.ee
Finland	Ice Service of The Finnish Meteorological Institute	Phone: +358 919293464 Fax: +358 919293413 E-mail: ice@fmi.fi Web: http://www.iceservice.fi
Germany	The Eisdienst (Ice Service) of Bundesamt fur Seeschifffahrt and Hydrographie (BSH)	Phone: +49 3814563780 Fax: +49 3814563949 E-mail: ice@bsh.de Web: http://www.bsh.de/en/Marine_data/Observations/Ice/in dex.jsp
Latvia	Harbor Master Riga	Phone: +371 67082000/67082035 Fax: +371 67323117 E-mail: captain@rok.bkc.lv
	Icebreaker VARMA	Phone: +371 29341982 Fax: +371 29344270
Lithuania	Harbor Master Klaipeda State Seaport	Phone: +370 46499688 Fax: +370 46499666 E-mail: ukt@port.lt
Netherlands	Inland Water Information Center	Phone: +31 (0)320298888 Fax: +31 (0)320298580 E-mail: infocentrum@rws.nl Web: http://www.infocentrum-binnenwateren.nl
Norway	Norwegian Ice Service	Phone: +47 37019759/37019725 Cell: +47 91741522/90077605 Fax: +47 37019701 E-mail: ismelding@kystverket.no Web: http://www.kystverket.no
Poland	Institute of Meteorology & Water Management (IMGW)	Phone: +48 586201641/586288146 Fax: +48 586201641 E-mail: hydrologia_gdynia@imgw.pl Web: http://www.imgw.pl/www.baltyk.pogodynka.pl
Russia	Port Authority St. Petersburg, Headquarters of Ice Operations	Phone: +7 8123213018/8123213019 Fax: +7 8123236048 E-mail: meteo@meteo.nw.ru Web: http://www.meteo.nw.ru
Sweden	Swedish Ice Service	Phone: +46 114958533 Fax: +46 114958053 E-mail: ice@smhi.se Web: http://www.smhi.se

300K. Baltic Sea Ice Codes

This code is used by the following countries: Denmark, Finland, Germany, Netherlands, Norway, Poland, Sweden, Russia, Estonia, Lithuania, and Latvia.

The general form of the message code is:

ICE: AA1AbSbTbKb

Table V	7	Table I	Table II	Table III	Table IV
AA	1 AB		Sb	Тв	Кв
BB	1	Ab	Sb	Тв	Кв
CC etc.	1	Ab	Sb	Тв	Кв

2AbSbTbKb ...

AA1AbSbTbKb

Notes:

-When a section is free of ice, the corresponding group may be omitted from the report. It should, however, always be coded as n0//KB the first 2 days after it has become ice-free and only omitted the third day if the ice-free conditions continue.

-When all sections within a district are ice-free, the whole district shall be omitted from the report.

-The districts for which ice information is issued by countries using this code are indicated for each country in the following pages.

	AB - Amount and arrangement of sea ice										
0	Ice-free										
1	Open water - concentration less than 1/10										
2	Very open ice - concentration 1/10 to less than 4/10										
3	Open ice - concentration 4/10 to 6/10										
4	Close ice - concentration 7/10 to 8/10										
5	Very close ice - concentration 9/10 to 9+/10*										
6	Compact ice, including consolidated ice - concentration 10/10										
7	Fast ice with drift ice outside										
8	Fast ice										
9	Lead in very close or compact drift ice or along the ice edge										
/	Unable to report										
*	9+/10 means 10/10 ice concentration with openings										
No	te: The higher code figure has greater priority in reporting.										

Table I

	SB - Stage of ice development											
0	New ice or dark nilas (less than 5 cm thick)											
1	Light nilas (5 to 10 cm thick) or ice rind											
2	Grey ice (10 to 15 cm thick)											
3	Grey-white ice (15 to 30 cm thick)											
4	White ice, first stage (30 to 50 cm thick)											
5	White ice, second stage (50 to 70 cm thick)											
6	Medium first-year ice (70 to 120 cm thick)											
7	Ice predominantly thinner than 15 cm with some thicker ice											
8	Ice predominantly 15 to 30 cm with some ice thicker than 30 cm											
9	Ice predominantly thicker than 30 cm with some thinner ice											
/	No information or unable to report											
No	te: If $AB = 0$, SB should be reported as /.											

Table II

	TB - Topography or form of ice										
0	Pancake ice, ice cakes, brash ice—less than 20 m across										
1	Small ice floes - 20 to 100 m across										
2	Medium ice floes - 100 to 500 m across										
3	Big ice floes - 500 to 2000 m across										
4	Vast or giant ice floes - more than 2000 m across, or level ice										
5	Rafted ice										
6	Compacted slush or shuga, or compacted brash ice										
7	Hummocked or ridged ice										
8	Thaw holes or many puddles on the ice										
9	Rotten ice										
/	No information or unable to report										
wit cor	tes: Figures 0 to 4 only to be used if ice concentration is less than 7/10 th no compacted ice present (TB = 4: vast floes). 4 to 9 to be used if ice incentration is greater 7/10 (TB = 4: level ice). If $AB = 0$, TB should be ported as /.										

<u>Table III</u>

Table IV

	KB - Navigation conditions in ice										
0	Navigation unobstructed										
1	Navigation difficult or dangerous for wooden vessels without ice sheathing										
2	Navigation difficult for unstrengthened or low-powered vessels built of iron or steel; navigation for wooden vessels even with ice sheathing not advisable										
3	Navigation without icebreaker assistance possible only for high-powered vessels of strong construction and suitable for navigation in ice										
4	Navigation proceeds in lead or a broken ice-channel without the assistance of icebreaker										
5	Icebreaker assistance can only be given to vessels suitable for navigation in ice and of special size										
6	Icebreaker assistance can only be given to vessels of special ice class and of special size										
7	Icebreaker assistance can only be given to vessels after special permission size										
8	Navigation temporarily closed										
9	Navigation has ceased										
/	Unknown										

[Table V												
ĺ	Denmark												
Ī		1	Sea area N of Hammaren		1	Sea area W of Ven		1	Sea area off Møn lighthouse		1	Agersøsund—Stignæs	
		2	Fairway to Rønne		2	Sea area E of Ven		2	Sea area S of Gedser		2	Storebælt channel, westernpart	
	AA	3	Sea area between Rønne and Falsterbo	BB	3	Sea area off Helsingør	CC	3	Sea area S of Rødby, harbor	DD	3	Storebælt channel, eastern part	
		4	Sea area off Falsterbo	DD	4	Sea area off Nakkehoved		4	Sea area SE of Keldsnor	DD	4	Sea area E of Romsø	
		5	Fairway through Drogden		5	Sea area S of Hesselø		5	Sea area off Sprodsbjerg		5	Fairway to Kalundborg oil harbor	
		6	Fairway to København		6	Fairway to Isefjorden-Kyndbyværket		6	Sea area W of Omø		6	Sea area W of Røsnaes	
		1	Sea area W of Sjællands rev		1	Southern entrance to Lillebælt, Skjoldnæs		1	Fairway at Fredericia to the bridges		1	Sea area off Fornæs	
		2	Sea area W of Hesselø		2	Sea area off Helnæs		2	Sea area N of Æbelø		2	Fairway to Randers	
	EE	3	Sea area E of Anholt	FF	3	Fairway to Åbenrå—Enstedværket	GG	3	Fairway to Odense	НН	3	Entrance at Hals Barre	
	EE	4	Sea area W of Fladen Lighthouse		4	Sea area off Assens		4	Sea area at Vesborg lighthouse	1111	4	Fairway to Alborg	
3 - 40		5	Sea area NW of Kummelbank		5	Kolding Yderfjord to the bridges		5	Sea area S of Sletterhage		5	Sea area NW of Læsø	
		6	Sea area N of Skagen		6	Fairway to Esbjerg		6	Fairway to Åarhus		6	Sea area off Hirsholmene	

r											
	Estonia										
	1	Narva-Joesuu - Kunda		1	Pärnu, harbor and bay	CC	1	Muhuväin (Moonsund)			
	2	Kunda, harborand bay	BB	2	Pärnu - Irben Strait						
	3	Kunda, harbor - Tallinn		3	Irben Strait						
AA	4	Muuga, harbor and bay			•						
AA	5	Tallinn, harbor and bay									
	6	Tallinn, harbor - Osmussaar									
	7	Osmussaar - Ristna									
	8	Ristna - Irben Strait									

Table V												
						Fin	land					
		1	Röytta - Etukari		1	Oulu harbors - Kattilankalla		1	Raahe harbor - Heikinkari		1	Rahja harbor - Välimatala
		2	Etukari - Ristinmatala		2	Kattilankalla - Oulu 1		2	Heikinkari—Raahe lighthouse	DD	2	Sea area from Välimatala to the line Ulkokalla - Ykskivi
		3	Ajos—Ristinmatala	BB	3	Sea area SW of Oulu 1	СС	3	Raahe lighthouse—Nahkiainen		3	The high sea between latitudes of Ulkokalla and Pietarsaari
AA	A	4	Ristinmatala—Kemi 2	-	4	The high sea N of latitude of Marjaniemi	-	4	The high sea between latitudes of Marjaniemi and Ulkokalla			
		5	Kemi 2 - Kemi 1							-		
		6	Sea area SW of Kemi 1									
		7	Kemi 2 - Ulkokrunni - Virpiniemi									
		1	Ykspihlaja - Repskär		1	Sea area NE of Nordvalen	1Kaskinen - SälgrundGG2Sea area off Sälgrund		1	From Pori harbors to the line Pori lighthouse - Säppi		
	ſ	2	Repskär—Kokkola lighthouse		2	Sea area from Nordvalen to W of Norrskär		2	Sea area off Sälgrund	НН	2	Sea area W of the line Pori lighthouse - Säppi
EE	E	3	Sea area off Kokkola lighthouse	FF	3	Vaskiluoto - Ensten		3	The high sea N of latitude of Yttergrund		3	The high sea between the latitudes of Yttergrund and Rauma
	Ī	4	Pietarsaari - Kallan		4	Ensten - Vaasa lighthouse						
	Ī	5	Sea area off Kallan		5	Vaasa lighthouse - Norrskär						
	-	6	The high sea between latitude of Pietarsaari to ENE of Nordvalen		6	Sea area SW of Norrskär						
		1	Rauma harbor - Kylmäpihlaja		1	Uusikaupunki harbor - Kirsta		1	Sea area N of Sälskär		1	Maarianhamina - Marhällan
П	Ī	2	Kylmäpihlaja - Rauma lighthouse	JJ	2	Kirsta - Isokari	KK	2	Sea area N of Märket	LL	2	Sea area off Nyhamn and Marhällan
11	Π	3	Sea area W of Rauma lighthouse	33	3	Isokari - Sandbäck		3	Sea area W of Märket		3	The middle Åland Sea
		4	The high sea S of latitude of Rauma		4	Sea area off Sandbäck		4	Sea area S of Märket		4	Sea area off Lågskär

	<u>Table V</u>											
	Finland (con't)											
MM	1	Naantali and Turku - Rajakari		1	Lövskär - Korra		1	Lövskär - Grisselborg		1	Hanko harbor - Hanko 1	
	2	Rajakari—Lövskär		2	Korra - Isokari	00	2	Grisselborg-Norparskär	PP	2	Sea area S of Hanko 1	
			NN	3	Lövskär - Berghamn	00	3	Sea area at Vidskär		3	Hanko - Vitgrund	
				4	Berghamn - Stora Sottunga		4	Utö - Suomen Leijona		4	Vitgrund - Utö	
				5	Stora Sottunga - Ledsär		5	Sea area S of Suomen Leijona				
				6	Sea area off Rödhamn							
QQ	1	Koverhar - Hästö Busö	RR	1	Inkoo and Kantvik harbor - Sea area at Porkkala		1	Helsinki harbor - Harmaja		1	Porvoo harbor - Varlax	
	2	Hästö Busö - Ajax		2	Sea area at Porkkala		2	Harmaja—Helsinki lighthouse		2	Varlax - Porvoo lighthous	
	3	Sea area S of Ajax		3	Sea area S of Porkkala lighthouse		3	Helsinki lighthouse - sea area S of Porkkala lighthouse		3	Porvoo lighthouse - Kalbådagrund	
						SS	4	Archipelago fairway Helsinki - Porkkala - Rönnskär	TT	4	Sea area Kalbådagrund - Helsinki lighthouse	
							5	Helinski, Vuosaarir - Eestilioto		5	Valkom harbor - Täktam	
							6	Eestilioto - Helinski lighthouse		6	Archipelago fairway Bois - Glosholm	
										7	Archipelago fairway Glosholm - Helsinki	

	1	Kotka - Viikari
	2	Viikari - Orrengrund
	3	Orrengrund - Tiiskeri
UU	4	Tiiskeri - Kalbådagrund
	5	Hamina - Suurmusta
	6	Suurmusta - Merikari
	7	Merikari—Kaunissaari

ſ	Table V											
F						Geri	nany					
		1	Stralsund - Palmer Ort		1	Wolgast - Peenemünde		1	Rostock - Warnemünde		1	Wismar - Walfisch
		2	Palmer Ort - Freesendorfer Haken		2	Peenemünde - Ruden		2	Rostock, overseas harbors		2	Walfisch -Timmendorf
	AA	3	Osttief	BB			CC	3	Warnemünde, sea channel	DD	3	Timmendorf - approach bouy "Wismar"
		4	Landtiefrinne					4	Warnemünde, sea area		4	Lübeck - Travemünde
		5	Fährhafen Sassnitz, harbor and vicinity					5	Approach buoy "Rostock", sea N		5	Travemünde, harbor
		6	Fährhafen Sassnitz, sea area					6			6	Travemünde, sea area
Г												Hamburg -
	EE	1	Holtenau - Laboe		1	Flensburg - Holnis		1	Holtenau, canal apporach		1	Landungsbrücken, Elbe
		2	Bülk, sea area	FF	2	Holnis - Neukirchen	GG	2	Kiel canal, Holtenau - Rendsburg	НН	2	Stadersand, Elbe
		3	Lighthouse "Kiel", sea area NE		3	Neukirchen - Kalkgrund		3	Kiel canal, Brunsbüttel - Rendsberg		3	Brunsbüttel, Elbe
		4	Westermarkeldorf, sea area		4	Falshöft , sea area		4	Brunsbüttel, canal approach		4	Cuxhaven - Neuwerk
		5	Marienleuchte, sea area								5	Approach bouy "Elbe"
		6	Fehmarnbelt, entrance E									
3 - 43		1	Bremen, Weser		1	Wilhelmshaven, harbor entrance		1	Emden, Ems and outer harbor			
		2	Brake, Weser	КК	2	Wilhelmshaven, oil jetty(Jade)	LL	2	Emden - Randzelgat			
	II	3	Bremerhaven, Weser		3	Schillig, Jade		3	Borkum, Randzelgat			
		4	Lighthouse "Hohe Weg", channel		4	Wangerooge channel		4	Borkum, Westerems			
		5	Alte Weser, channel									
		6	Neue Weser, channel									

	<u>Table V</u>												
	Latvia												
	1	Port of Riga		1	Port of Ventspils		1	Port of Liepaja					
	2	Shipping route from the port of Riga to the Cape of Mersrags	BB	2	Shipping route from the Irben Strait to the port of Ventspils	CC	2	Shipping route from Ventspils to the port of Liepaja					
AA	3	Shipping route from the Cape of Mersrags to the Irben Strait					3	Shipping route from the port of Liepaja to the sea border of Lithuania					
	4	Shipping route in the Irben Strait	1										

	1	Port of Klaipeda							
AA	2	Shipping route from the port of Klaipeda to the sea border of Latvia							
	3	Shipping route from the port of Klaipeda to the sea border of Russia							

	Netherlands													
	1	Delfzijl harbor		1	Harlingen harbor		1	Den Helder harbor		1	Branch canal G and Zaandam harbors			
	2	Eemshaven		2	Along Pollendam	CC	2	Texelstroom and Marsdiep		2	Amsterdam East harbors			
AA	3	Eems: Oterdum - Eemshaven	BB	3	Blauwe Slenk		3	Schulpengat	DD	3	Amsterdam West harbors			
	4	Eems: Eemshaven - Hubertgat		4	Vliestroom and Stortemelk				UU	4	Branch canal A (Beverwijk)			
						-				5	North Sea Canal			

Ijmuiden locks - fairway buoy

	<u>Table V</u>												
					Netherlar	nds (co	n't)						
	1	Nieuwe Maas and harbors		1	Moerdijk harbor		1	Antwerp harbors					
	2	Botlek harbors	-	2	Moerdijk - Dordrecht		2	Schelde: Antwerpen - Hansweert					
EE	3	Europoort	FF	3	Dordrecht harbor	66	3	Schelde: Hansweert - Flushing roads					
	4	New Waterway		4	Oude Maas	GG	4	Sloe harbor					
	5	Hoek of Holland - fairway buoy		5	Noord		5	Oostgat					
							6	Wielingen	1				
							7	Canal Terneuzen - Gent	1				

Γ						Nor	way					
		1	Sekken (Halden)		1	Østerelv (Fredrikstad)		1	Oslo - Steilene - Spro beacon		1	Langgrunn (Horten)
	_	2	Singlefjorden (Halden)	-	2	Leira (Fredrikstad)		2	Spro beacon - Fagerstrand - Dröbak		2	Gullholmen lighthouse - Mefjordbåen
ઝ	AA	3	Svinesund - Halden	BB	3	Vesterelva (Fredrikstad)	CC	3	Drøbak—Filtvet lighthouse	DD	3	Mefjordbåen - Fulehuk lighthouse
- 45		4	Torbjørnskjaer lighthouse	-	4	Rauøyfjorden		4	Filtvet - Gullholmen lighthouse		4	Fulehuk - Ferder lighthouse
		5	Struten lighthouse		5	Verlebukta - Moss		5	Dramsfjorden		5	West of Færder
		6	Løperen (Fredrikstad)		6	Mossesundet		6	Breiangen (north of Horten)		6	South of Færder
Γ		1	Torgersøygapet (Tønsberg)		1	Tjömekjæla		1	Brevikfjorden		1	Kragerofjørden
		2	Husøysund - Tønsberg channel	-	2	Sandefjord (Sandefjord)		2	Frierfjorden (Porsgrunn, Skien)		2	Grønholmgapet (Risør)
	FF	3	Tønsberg inner harbor	FF	3	Inside Svenner lighthouse	GG	3	Jomfrulandsrenna	HH	3	Stangholmgapet (Risør)
	EE -	4	Vestfjord (Tønsberg)	1.1.	4	Off Svenner lighthouse		4	Off Jomfruland	1111	4	Lyngørfjorden
		5	Leistensløpet		5	Larviksfjorden (Stavern - Larvik)	-	5	Skåtøysundet (Kragerø)		5	Off Lyngør
		6	Vrengen		6	Langesundsbukta		6	Langårsund (Kragerø)		6	Tvedestrandsfjord

	<u>Table V</u>												
					Norway	v (con't)							
	1	Tromsøysundet (Arendal)		1	Off Homborsund light								
	2	Galtesund (Arendal)		2	Lillesand								
II	3	Inside Torungen light (Arendal)	JJ	3	Kristiansandsfjorden								
11	4	Off Torungen light (Arendal)		4	Off Oksøy light (Kristiansand)								
	5	Grimstad											
	6	Inside Homborsund light											

					Pol	and			
	1	Krynica Morska, sea		1	Rozewie lighthouse, sea		1	Zalew Szczecinski	
	2	Gdansk, maritime harbor		2	Ustka, harbor		2	Szczecin, harbor	
	3	Gdansk, Port Polnocny	חח	3	Ustka, sea	CC	3	Passahe Swinoujscie - Szczecin	
	4	Gdansk, sea	BB	4	Darlowo, harbor		4	Swinoujscie, harbor	
AA	5	Gdynia, harbor		5	Darlowo, sea		5	Swinoujscie, sea	
	6	Gdynia, sea		6	Kolobrzeg, harbor				
	7	Hel lighthouse, sea to south		7	Kolobrzeg, sea				
	8	Hel lighthouse, sea to east				-			
	9	Hel lighthouse, sea to north							

	Table V													
	Russia (Baltic Coast and Gulf of Finland Coast)													
	1	Sankt Petersburg harbor		1	Vyborg, harborand bay		1	Luga bay		1	Kaliningrad harbor			
	2	St. Petersburg - Kotlin (eastern point)		2	Vichrevoj - Sommers	CC	2	Approaches to Luga bay, line Mošènyj - Sepelevskij	DD	2	Kaliningrad to Lithuanian sea border			
٨٨	3	Kotlin (eastern point) Tolbuhkin lighthouse	BB	3	Berkezund					3	Kaliningrad to Polish sea border			
AA	4	Tolbukhin lighthouse- Sepelevskij lighthouse		4	Bol'šoj Berezovyj (eastern point) - Sepelevskij									
	5	Sepelevskij lighthouse- Seskar		•										
	6	Seskar - Sommers												
	7	Sommers - Gogland (southern point)												
	8	Gogland (southern point) longitude of Kunda	1											

						Swe	eden					
		1	Karlsborg - Malören		1	Haraholmen - Nygrån		1	NE of Nordvalen		1	Fairway to Husum
		2	Sea area off Malören		2	Sea area off Nygrån		2	SW of Nordvalen		2	Örnsköldsvik - Hörnskaten
1		3	Luleå - Björnklack	BB	3	Skelleftehamn - Gåsören	CC	3	Western Quark (W of Holmöarne)	DD	3	Hörnskaten - Skagsudde
	AA	4	Björnklack - Farstugrunden		4	Sea area off Gåsören		4	Umeå - Väktaren		4	Sea area off Skagsudde
		5	E and SE of Farstugrunden		5	Sea area off Bjuröklubb		5	SE of Väktaren		5	Fairway W of Ulvöarna
		6	Sandgrönn fairway					6	NE and SE of Sydostbrotten		6	Sea area E of Ulvöarna
		7	Rödkallen - Norströmsgrund		-							-

ſ	Table V											
Ē						Sweder	ı (con'	t)				
		1	Ångermanälven north Sandö bridge		1	Hudiksvallsfjärden		1	Gävle - Eggegrund		1	Passage at Understen
		2	Ångermanälven south Sandö bridge		2	Iggesund - Agö		2	Sea area off Eggegrund		2	Sea area off Svartklubben
		3	Härnösand - Härnön		3	Sea area off Agö	GG	3	Sea area off Örskär	HH	3	Hallstavik - Svartklubben
	EE	4	Sea area off Härnön	FF	4	Sandarne—Hällgrund		4	Öregrundsgrepen		4	Sea area off Söderarm and Tjärven
		5	Sundsvall - Draghällan		5	Sea area off Hällgrund		5	Passage at Grundkallen		5	Sea area off Svenska Högarna
		6	Draghällan - Åstholmsudde		6	Ljusnefjärden - Storjungfrun						
		7	Off Åstholmsudde and Brämön		7	Sea area off Storjungfrun						
		1	Trälhavet - Furusund - Kapellskär		1	Köping - Kvicksund		1	Norrköping - Hargökalv		1	Sea area W of Gotska Sandön
		2	Kappelskär - Söderarm		2	Västerås - Grönsö		2	Hargökalv - Vinterklasen - N Kränkan		2	Sea area off Visby
	п	3	Stockholm - Trälhavet - Krövholmen	KK	3	Grönsö - Södertälje	LL	3	Oxelösund harbor	MM	3	W of Stora Karlsö
3-4	Π	4	Sea area off Sandhamn		4	Stockholm - Sodertälje		4	Järnverket - Lillhammaren - N Kränkan		4	Sea area off Hoburgen
48		5	Trollharan - Långgarn		5	Sodertälje - Fifong	5 Sea area off Gustaf Dalen			5	Sea area off Magö (Slite)	
		6	Mysingen		6	Fifong - Landsort					6	Sea area off Fårö
		7	Nynäshamn - Landsort	_								
		8	Sea area S of Landsort									
		1	Västervik - Marsholmen - Idö		1	Blå Jungfrun - Kalmar		1	Karlskrona - Aspö		1	Sea area N of Falsterbo Rev
		2	Sea area off Idö	00	2	Kalmar - Utgrunden		2	Sea area off Aspö		2	Drogden passage
	NN	3	Oskarshamn - Furön	00	3	Utgrunden - Ölands Södra Udde	PP	3	Fairway to Karlshamn	DD	3	Flintrännan
		4	Furön - Ölands Norra Udde		4	SE of Ölands Södra Udde		4	Fairway to Åhus	RR	4	Fairway to Malmö
		5	Off Ölands Norra Udde					5	Sea area off Sandhammaren		5	The Sound, Malmö - Ven
_								6	Fairway to Trelleborg		6	The Sound, E of Ven
								7	Sea area SE of Falsterbo Rev		7	The Sound, off Halsingborg
											8	W and S of Kullen

					Ta	ble V		
					Swede	en (con'	t)	
	1	Fairway to Halmstad		1	Uddevalla - Stenungsund		1	Göta river
	2	Fairway to Valberg	-	2	Stenungsund - Hätteberget		2	Trollhatte canal - Dalbo bridge
	3	Sea area W of Nidingen		3	Sea area off Hätteberget		3	Vänersborgsviken
SS	4	Knippelholmen - Böttö (Göteborg)	TT	4	Sea area off Måseskär	TIT	4	Fairway through Lurö archipelago
	5	Vinga Sand and Danafjord		5	Brofjorden - Dynabrott	UU	5	Fairway to Gruvön
	6	Buskär - Trubaduren - Vinga		6	Off Dynabrott and Gäven		6	Fairway to Karlstad
	7	Off Trubaduren and Vinga		7	Kosterfjorden		7	Fairway to Kristinehamn
	•		1	8	Sea area off Nordkoster		8	Fairway to Otterbäcken
					•		9	Fairway to Lidköping

PART II BROADCAST STATION LIST

300L. Summary

The stations in the following list broadcast navigational, weather and ice warnings including stations listed in Part I above. Broadcasts are in English unless otherwise indicated. For information and schedules of marine weather broadcasts made primarily in English, refer to the Selected Worldwide Marine Weather Broadcasts (WWMARWETHRBC), a joint publication of the National Weather Service (NWS) and Naval Oceanography Command.

	Station Name (Call Sign(s))														
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information											
VHF															
RT (MF)															
RT (HF)															
Radio-Telex	Navigational, weather, ice, tsunami	Frequency, channel or satellite to	Time broadcast	includes language if not in English and											
Radio-Facsimile	warnings	tune into	starts	any other specific details the mariner should know about the broadcast.											
NAVTEX															
METAREA															
NAVAREA															

Aulona-Vlore (ZAV3)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
VHF	Navigational warnings and weather	Ch. 18, 85	0600, 1800	in Albanian, English, Italian and Greek

300N. Algeria

Alger (7TA)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
VHF	Local navigational warnings and weather	Ch. 84	0730, 2330	in French and English
RT (MF)	Local navigational warnings and weather	1792 kHz	0903, 1703	in French and English

3 - 5	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
51	VHF	Local navigational warnings and weather	Ch. 24	0703, 2303	in French and English
	RT (MF)	Local navigational warnings and weather	1911 kHz	0850, 1850	in French and English

	Bejaia (7TG)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Local navigational warnings and weather	Ch. 26	0733, 2333	in French and English	

	Bordj-el-Kiffan (7TA)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
NAVTEX	B1 Character: V Range: 150nm	490 kHz	0330, 0730, 1130, 1530, 1930, 2330	in French		
	B1 Character: B Range: 150nm	518 kHz	0010, 0410, 0810, 1210, 1610, 2010			

Oran (7TO)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Local navigational warnings and weather	Ch. 24	0703, 2303	in French and English	
RT (MF)	Local navigational warnings and weather	2719 kHz	0835, 1835	in French and English	

		Skikda (7TS)					
3 -	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
52	VHF	Local navigational warnings and weather	Ch. 26	0703, 2303	in French and English		

	Tenes (7TN)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings and weather	Ch. 26	0733, 2333	in French and English		

	Oran (7TO)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings and weather	Ch. 24	0703, 2303	in French and English		
RT (MF)	Local navigational warnings and weather	2719 kHz	0835, 1835	in French and English		

Luanda (D3E)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
VHF	Local navigational warnings	Ch. 24	0233, 0633, 1033, 1433, 1833, 2233	in Portuguese

300P. Antarctica (Argentina)

	Centro Meteorologico Base Marambio (LLU)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
	Weather	4807, 10870 kHz	0020, 0320, 0620			
Dadia Talar	Weather	10870, 16209.5 kHz	0920, 1220, 1820, 2120			
Radio-Telex	Weather	10870, 20732 kHz	1520			
	Ice	10870, 16209.5 kHz	2120 (Tue., Thu.)			

	Centro Meteorologico Antartico Presidente Eduardo Frei Montalva (CAN6D)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
Radio-Telex	Weather for Antarctic	5302.5, 11662.5, 15470.5 kHz	0030, 0330, 0630, 0930, 1230, 1530, 1830, 2130			
	Weather for Drake Passage and Bellingshausen Sea	5302.5, 11662.5, 15470.5 kHz	1530, 2130			

	Bahia Fildes, King George Island-South Shetland Islands (CBZ22)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Antarctic weather for the Bahia Fildes	Ch. 14	0155, 1355	in Spanish. After prior announcement on 2182 kHz and VHF Ch 16.		
RT (MF)	Antarctic weather for the Bahia Fildes	2738 kHz	0150, 1350	in Spanish. After prior announcement on 2182 kHz and VHF Ch 16.		

	Bahia Blanca (L2N)						
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information			
VHF	Local navigational warnings and weather	Ch. 15	0010, 0410, 0810, 1210, 1610, 2010	in Spanish			
	Water level reports	Ch. 15	Every hour +05m	in Spanish			
NAVTEY	B1 Character: D Range: 280nm	490 kHz	0030, 0430, 0830, 1230, 1630, 2030	in Spanish			
NAVTEX	B1 Character: P Range: 280nm	518 kHz	0230, 0630, 1030, 1430, 1830, 2230	in Spanish			

	Buenos Aires (L2C)					
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
		Local navigational warnings and weather	Ch. 15	0010, 0410, 0810, 1210, 1610, 2010	in Spanish	
ຜ VE	VHF	Local navigational warnings and weather	Ch. 21	Every hour +00m, +15m, +30m, +45m	in Spanish	
		Water level reports	Ch. 15	Every hour +05m	in Spanish	
		Navigational warnings	4210, 8416.5, 12579, 16806.5 kHz	0030, 1530, 2100	in Spanish and English	
		Local and coastal navigational warnings	4210, 8416.5, 12579 kHz	1000	in Spanish and English	
	Radio-Telex	Local and coastal navigational warnings including numbers of warnings in force	4210, 8416.5, 12579, 16806.5 kHz	1900	in Spanish and English	
		Weather bulletins and wave prognosis	4210, 8416.5, 12579 kHz	0300	in Spanish and English	
		Weather bulletins and wave prognosis	4210, 8416.5, 12579, 16806.5 kHz	1400	in Spanish and English	

	Buenos Aires (L2C)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
NAVTEV	B1 Character: F Range: 280nm	490 kHz	0050, 0450, 0850, 1250, 1650, 2050	in Spanish		
NAVTEX	B1 Character: R Range: 280nm	518 kHz	0250, 0650, 1050, 1450, 1850, 2250			

	Comodoro Rivadavia (L2W)					
Тур	e	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHI	F	Local navigational warnings and weather	Ch. 15	0350, 0750, 1050, 1650, 2250	in Spanish	
RT (M	4F)	Local and coastal navigational warnings	2065 kHz	0440*, 0740	in Spanish. *Weather only.	
	IE)	Local navigational warnings and weather	4149 kHz	0440*, 0740, 1740*, 2040**	in Spanish. *Weather only. **Includes in force message.	
RT (HF)	1F)	Local and coastal navigational warnings	8294 kHz	1740*, 2040**	in Spanish. *Weather only.**Includes in force message.	
		Local and coastal navigational warnings. *Weather bulletins and wave prognosis	4210, 8416.5, 12579 kHz	0530*, 2300	in Spanish and English	
Radio-Telex	Felex	Local and coastal navigational warnings including numbers of warnings in force. *Weather bulletins and wave prognosis	8416.5, 12579, 19680.5 kHz	1300, 1830*	in Spanish and English	
NAVT		B1 Character: C Range: 280nm	490 kHz	0020, 0420, 0820, 1220, 1620, 2020	in Spanish	
INAV I	EA	B1 Character: O Range: 280nm	518 kHz	0220, 0620, 1020, 1420, 1820, 2220		

Mar del Plata (L2T, L2U)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Local navigational warnings and weather	Ch. 15	0230, 0530, 1130, 1730, 2330	in Spanish	
	Weather	2065 kHz	0310	in Spanish	
RT (MF)	Local navigational warnings and weather	2065 kHz	0010	in Spanish	
	Weather	4149kHz	0310, 1610	in Spanish	
	Weather	8294 kHz	1610	in Spanish	
RT (HF)	Local and coastal navigational warnings	4149 kHz	0010	in Spanish	
	Local and coastal navigational warnings including in force warnings	4149, 8294 kHz	1210	in Spanish	
NAVTEV	B1 Character: E Range: 280nm	490 kHz	0040, 0440, 0840, 1240, 1640, 2040	in Spanish	
NAVTEX	B1 Character: Q Range: 280nm	518 kHz	0240, 0640, 1040, 1440, 1840, 2240		

	Puerto Madryn (L4S)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Local navigational warnings, weather and water level reports	Ch. 15	0010, 0410, 0810, 1210, 1610, 2010	in Spanish	

	Quequen (L5B)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Local navigational warnings and weather	Ch. 15	0010, 0410, 0810, 1210, 1610, 2010	in Spanish	

	Rawson					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings and weather	Ch. 15	0010, 0410, 0810, 1210, 1610, 2010	in Spanish		

	Recalada Rio de la Plata (L3Z)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings and weather	Ch. 15	0040, 0440, 0840, 1240, 1640, 2040	in Spanish		
	Water level reports	Ch. 15	Every hour +05m	in Spanish		

	Rio Gallegos (L3I-VHF, L3D-NAVTEX)					
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
•••	VHF	Local navigational warnings	Ch. 15	0010, 0410, 0810, 1210, 1610, 2010	in Spanish	
3 - 57	NAVTEY	B1 Character: B Range: 280nm	490 kHz	0010, 0410, 0810, 1210, 1610, 2010	in Spanish	
	NAVTEX -	B1 Character: N Range: 280nm	518 kHz	0210, 0610, 1010, 1410, 1810, 2210		

	San Antonio Oeste					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings and weather	Ch. 15	0010, 0410, 0810, 1210, 1610, 2010	in Spanish		

	Ushuaia-MRCC (L3P-VHF, L3K-NAVTEX)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings	Ch. 15	0010, 0410, 0810, 1210, 1610, 2010	in Spanish		

	Ushuaia-MRCC (L3P-VHF, L3K-NAVTEX)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
NAVTEX	B1 Character: A Range: 280nm	490 kHz	0000, 0400, 0800, 1200, 1600, 2000	in Spanish		
	B1 Character: M Range: 280nm	518 kHz	0200, 0600, 1000, 1400, 1800, 2200			

	METAREA VI				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
METAREA	Weather	AOR-W	0230, 1730		

	NAVAREA VI					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
NAVAREA	Navigational warnings	AOR-W	0200, 1400			

3 - 58	300S. Austi	ralia					
		Adelaide					
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
	RT (HF)	Navigational warnings	8176 kHz	on receipt, 0357, 0757	for auscoast sea areas D, E, and F		

	Broome				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Local and coastal weather, warnings	Ch. 72	0415, 0815, 2215	After prior announcement on VHF Ch 16.	

	Cairns					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Coastal weather	Ch. 81	0145, 0545, 2145, 2345	Warnings after prior announcement on VHF Ch 16. For Australia sea area 2.		
RT (HF)	Navigational warnings	8176 kHz	on receipt, 1257, 2357	for auscoast sea areas H, A and B		

	Carbarvon					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local coastal weather	Ch. 73	0405, 0805, 2205	After prior announcement on VHF Ch 16.		

		Charleville (V	MC)	
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
RT (HF)	Weather warnings for coastal waters of Queensland, New South Wales, Victoria, Tasmania and South Australia. Weather warnings for High Seas Areas Northern, North Eastern and South Eastern Australia	2201 kHz (0800-2100UTC), 4426 kHz (2100-0800UTC), 6507 kHz (0800-2100UTC), 8176 kHz, 12365 kHz, 16546 kHz (2100-0800UTC)	Every hour +00m	
	Special announcements	2201 kHz (0800-2100UTC), 4426 kHz (2100-0800UTC), 6507 kHz (0800-2100UTC), 8176 kHz, 12365 kHz, 16546 kHz (2100-0800UTC)	Every hour +55m	
	Weather forecasts for coastal waters of South Australia and Tasmania	2201 kHz (0800-2100UTC), 4426 kHz (2100-0800UTC), 6507 kHz (0800-2100UTC), 8176 kHz, 12365 kHz, 16546 kHz (2100-0800UTC)	0030, 0430, 0830, 1230, 1630, 2030	
	Weather forecasts for coastal waters of Queensland and Northern Territory east of Cape Don	2201 kHz (0800-2100UTC), 4426 kHz (2100-0800UTC), 6507 kHz (0800-2100UTC), 8176 kHz, 12365 kHz, 16546 kHz (2100-0800UTC)	0130, 0530, 0930, 1330, 1730, 2130	
	Weather forecasts for High Seas Areas Northern, North Eastern and South Eastern Australia	2201 kHz (0800-2100UTC), 4426 kHz (2100-0800UTC), 6507 kHz (0800-2100UTC), 8176 kHz, 12365 kHz, 16546 kHz (2100-0800UTC)	0230, 0630, 1030, 1430, 1830, 2230	
	Weather forecasts for coastal waters of New South Wales and Victoria	2201 kHz (0800-2100UTC), 4426 kHz (2100-0800UTC), 6507 kHz (0800-2100UTC), 8176 kHz, 12365 kHz, 16546 kHz (2100-0800UTC)	0330, 0730, 1130, 1530, 1930, 2330	

	Cooktown					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Coastal weather	Ch. 11	0633, 2033			

	Darwin					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Weather for Darwin Harbor and coastal waters between Daly River and Cape Don	Ch. 67	0833, 2233			
	Local weather	Ch. 28	0903, 2233	Remote site: Gove		
RT (HF)	Navigational warnings	8176 kHz	on receipt, 0157, 0957	for auscoast sea areas G, H, A		

Γ	Esperance				
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
3	VHF	Local coastal weather	Ch. 72	0415, 0815, 2215	After prior announcement on VHF Ch 16.
61					
Geraldton					
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
	VHF	Local coastal weather	Ch. 73	0415, 0815, 2215	After prior announcement on VHF Ch 16.

	Gladstone				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
RT (HF)	Navigational warnings	8176 kHz	on receipt, 1157, 2257	for auscoast sea areas A, B, and C	

	Hobart (VMT-232)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
	Weather forecasts	Ch. 67, 68, 69	0345, 0633, 0903, 2145	After prior announcement on VHF Ch 16 Warnings sent on receipt.		
VHF	Weather forecasts	Ch. 82	0803, 2233	After prior announcement on VHF Ch 16 Warnings sent on receipt.		
	Navigational warnings	Ch. 69	2303	After prior announcement on VHF Ch 1		
RT (MF)	Weather forecasts	2524 kHz	0345, 0633, 0903, 2145, 2303*	After prior announcement on RT (MF) 2182 kHz. *Navigational warnings only.		
KI (MI [*])	Weather warnings	2524 kHz	On receipt (2115-0945)	After prior announcement on RT (MF) 2182 kHz.		
	Weather forecasts	4146, 6227 kHz	0345, 0903, 2145	After prior announcement on RT (HF) 4125, 6215 kHz.		
RT (HF)	Weather forecasts	4535, 4620 kHz	0633	After prior announcement on RT (HF) 4125, 6215 kHz.		
КІ (ПГ)	Weather warnings	4146, 6227 kHz	On receipt (2115-0945)	After prior announcement on RT (HF) 4125, 6215 kHz.		
	Navigational warnings	4146, 6227 kHz	2303	After prior announcement on RT (HF) 4125, 6215 kHz.		

	Mackay				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Local coastal weather	Ch. 21, 80	0215, 0645, 2015	After prior announcement on VHF Ch 16.	

	Melbourne					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings and weather	Ch. 67	0448, 2248	Warnings preceded by an announcement on VHF Ch 16. Remote sites at Port Philip and Western Port Bays.		
RT (HF)	Navigational warnings	8176 kHz	on receipt, 0257, 2157	for auscoast sea areas C, D and E		

	Newcastle				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Local navigational warnings and weather	Ch. 67	0733, 2133	Warnings sent on receipt.	

Perth					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Local navigational warnings and weather	Ch. 67	1118, 2318	Remote site: Water Police	
	Severe weather warnings	Ch. 67	Every 2 hours	Remote site: Water Police	
RT (HF)	Navigational warnings	8176 kHz	on receipt, 0657, 1057	for auscoast sea areas E, F and G	

	Port Hedland						
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
ა -	RT (HF) Navigational warnings 8176 kHz on receipt, 0457, 0857						
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~	KI (III)	Navigational warnings	8170 KHZ	on receipt, 0457, 0857				
5								
	Port Kembla							
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information			
	VHF	Local navigational warnings and weather	Ch. 67	0733, 2133				
		Local severe weather warnings	Ch. 67	On receipt and then every hour				

	Rockhampton					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Coastal weather	Ch. 21	0210, 0705, 2120			
VIII	Weather for Keppel Bay	Ch. 82	0140, 0640, 2040			

	Sydney					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings and weather	Ch. 67	0733, 2133			
	Local severe weather warnings	Ch. 67	On receipt and then every hour			
RT (HF)	Navigational warnings	8176 kHz	on receipt, 0057, 1357	for auscoast sea areas B, C and D		

	Townsville				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Coastal weather	Ch. 72, 80	0215, 0715, 2215	After prior announcement on VHF Ch 16.	

	Wiluna (VMW)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
RT (HF)	Weather warnings for coastal waters of Queensland (Gulf of Carpentaria), Northern Territory, Western Australia and South Australia. Weather warnings for High Seas Areas Northern, Western and South Eastern Australia	2056 kHz (1000-2300UTC), 4149 kHz (2300-1000UTC), 6230 kHz (1000-2300UTC), 8113 kHz, 12362 kHz, 16528 kHz (2300-1000)	Every hour +00m			
	Special announcements	2056 kHz (1000-2300UTC), 4149 kHz (2300-1000UTC), 6230 kHz (1000-2300UTC), 8113 kHz, 12362 kHz, 16528 kHz (2300-1000)	Every hour +55m			
	Weather forecasts for coastal waters of Western Australia	2056 kHz (1000-2300UTC), 4149 kHz (2300-1000UTC), 6230 kHz (1000-2300UTC), 8113 kHz, 12362 kHz, 16528 kHz (2300-1000)	0030, 0430, 0830, 1230, 1630, 2030			
	Weather forecasts for coastal waters of South Australia and Northern Territory	2056 kHz (1000-2300UTC), 4149 kHz (2300-1000UTC), 6230 kHz (1000-2300UTC), 8113 kHz, 12362 kHz, 16528 kHz (2300-1000)	0130, 0530, 0930, 1330, 1730, 2130			
	Weather forecasts for High Seas Areas Northern and Western Australia, coastal waters of Queensland (Gulf of Carpentaria)	2056 kHz (1000-2300UTC), 4149 kHz (2300-1000UTC), 6230 kHz (1000-2300UTC), 8113 kHz, 12362 kHz, 16528 kHz (2300-1000)	0230, 0630, 1030, 1430, 1830, 2230			
	Weather forecasts for High Seas Areas South Eastern Austrialia	2056 kHz (1000-2300UTC), 4149 kHz (2300-1000UTC), 6230 kHz (1000-2300UTC), 8113 kHz, 12362 kHz, 16528 kHz (2300-1000)	0330, 0730, 1130, 1530, 1930, 2330			

3 - 65

	METAREA X					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
ΜΕΤΛΡΕΛ	Weather	IOR	1030, 2330			
METAREA	weatter	POR	1100, 2300			

	METAREA XI					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
	Weather via China	IOR	0330, 1015, 1530, 2215			
METAREA	Weather via Japan	POR	0230, 0830, 1430, 2030			
	Weather via Australia (south of equator)	POR	0815, 2015			

	NAVAREA X					
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
3 - 6	NAVAREA	Navigational warnings	IOR, POR	0700, 1900		

300T. Azores

	Ponta Delgada					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings and weather	Ch. 11	0830, 2000 local time	in Portuguese and English		

	Horta (CTH)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings and weather	Ch. 11	0900, 1000, 1900, 2100 local time	in Portuguese and English		
RT (MF)	Coastal navigational warnings and weather	2657 kHz	0935, 2135	in Portuguese and English		

	Horta (CTH)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
NAVTEX	B1 Character: J Range: 640nm	490 kHz	0130, 0530, 0930, 1330, 1730, 2130	in Portuguese		
	B1 Character: F Range: 640nm	518 kHz	0050, 0450, 0850, 1250, 1650, 2050			

300U. Bahrain

	Bahrain (A9M)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
NAVTEX	B1 Character: B Range: 300nm	518 kHz	0010, 0410**, 0810, 1210, 1610**, 2010	** nav & weather (when all are not selected)		

300V. Barbados

ა		Barbados Coast Guard-MRSC					
8 - 67	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
	VHF	Storm warnings for Caribbean Sea, Antilles and adjacent Atlantic waters	Ch. 16, 26	on receipt, 0050, 1250, 1650, 2050			

300W. Belgium

	Antwerpen (OSA)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings and weather	Ch. 24	Every hour +48m, +55m	in Dutch and English. After prior announcement on VHF Ch 16.		

	Oostende (OSU)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
	Navigational warnings	Ch. 27	0233, 0633, 1033, 1433, 1833, 2233 after the first hour +03m and +33m	in Dutch and English. After prior announcement on frequencies VHF Ch 16, DSC VHF Ch 70.		
VHF	Weather	Ch. 27	0820, 1720 (0720 local time), warnings on receipt	After prior announcement on frequencies VHF Ch 16, DSC VHF Ch 70.		
	Ice	Ch. 27	0103, 0503, 0903, 1303, 1703, 2103	After prior announcement on frequencies VHF Ch 16, DSC VHF Ch 70.		
	Navigational warnings	2761 kHz	0233, 0633, 1033, 1433, 1833, 2233 after the first hour +03m and +33m	in Dutch and English. After prior announcement on frequencies RT (MF) 2182 and 2484(Dutch) kHz.		
RT (MF)	Weather	2761 kHz	0820, 1720 (0720 local time), warnings on receipt	After prior announcement on frequencies RT (MF) 2182 and 2484(Dutch) kHz.		
	Ice	2761 kHz	0103, 0503, 0903, 1303, 1703, 2103	After prior announcement on frequencies RT (MF) 2182 and 2484(Dutch) kHz.		
	B1 Character: B Range: 55nm	490 kHz	0010, 0410, 0810, 1210, 1610, 2010	in Dutch.		
NAVTEX	B1 Character: M Range: 150nm	518 kHz	0200, 0600, 1000, 1400, 1800, 2200	no weather bulletins.		
	B1 Character: T Range: 55nm	518 kHz	0310, 0710**, 1110, 1510, 1910**, 2310	** nav & weather (when all are not selected)		

300X. Bermuda

	Bermuda Radio (ZBM)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VIIE	Local navigational warnings and weather. Tropical weather advisories for 18N to 42N and 50W to 80 W from 01 Jun to 30 Nov	Ch 27	0035, 0435, 0835, 1235, 1635, 2035	After prior announcement on frequencies VHF Ch 16. Latest US National Weather Service High Seas forecast for METAREA IV on request.		
VHF	Local navigational warnings and weather. Tropical weather advisories for 18N to 42N and 50W to 80 W from 01 Jun to 30 Nov	162.4 MHz (WX2)	Continuous	Broadcasts are repeated every 4-6 min and recordings are updated at 0000, 0600, 1200, 1800 local time as required.		

	Bermuda Radio (ZBM)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
RT (MF)	Local weather. Tropical weather advisories (01 Jun to 30 Nov) and US National Hurricane Center tropical weather outlook	2582 kHz	0035, 0435, 0835, 1235, 1635, 2035	After prior announcement on frequencies RT (MF) 2182 kHz. Latest US National Weather Service High Seas forecast for METAREA IV on request.		
NAVTEX	B1 Character: B Range: 280nm	518 kHz	0010, 0410, 0810, 1210, 1610, 2010	Tropical weather advisories 01 Jun thru 30 Nov.		

300Y. Brazil

	Rio de Janeiro Naval (PWZ-33)						
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information			
Radio-Telex	Navigational/Coastal warnings and SAR information	4266*, 6448, 8580, 12709, 16974 kHz	0400, 1430, 2130	in Portuguese and English. Local warnings in Portuguese. *4266 kHz on request			
د	Weather	4266*, 6448, 8580, 12709, 16974 kHz	0230, 0600, 1845	in Portuguese and English. *4266 kHz on request			
3	METAREA V						
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information			
METAREA	Weather	AOR-E	0730, 1930				

	NAVAREA V				
Type Nature of Broadcast Frequency/ Channel Times (UTC) Additional In				Additional Information	
NAVAREA	Navigational warnings	AOR-E	0030, 1230		

300Z. Bulgaria

	Bulgaria					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings and weather	Ch. 26	on receipt, 0733, 1333*, 1933	in Bulgarian and English. *Weather only.		
RT (MF)	Local navigational warnings and weather	3740 kHz	on receipt, 0733, 1333*, 1933	in Bulgarian and English. *Weather only.		
NAVTEX	B1 Character: J Range: 350nm	518 kHz	0130, 0530**, 0930**, 1330, 1730**, 2130**	** nav & weather (when all are not selected)		

Myeik				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
VHF	Local navigational warnings and weather	Ch. 12, 16	on receipt, 0915, 1715	

3 -	Yangon (XYR)				
70	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
	VHF	Local navigational warnings and weather	Ch. 12, 16	on receipt, 0915, 1715	

300AA. Canada

	Comox, B.C (VAC)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings and weather	WX1 (162.55 MHz), WX3 (162.475 MHz), Ch. 21B	Continuous (interrupted during live broadcasts at 0420, 1520, 2120)	Continuous marine broadcast information available, Phone: +1 250 3390748, +1 250 9745305. Remote stations: AlertBay, Port Hardy, Cape Lazo, Discovery Mountain, Texada Island.		

	Fundy (VFF)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
NAVTEX	B1 Character: V Range: 300nm	490 kHz	0335, 0735, 1135, 1535, 1935, 2335			
	B1 Character: U Range: 300nm	518 kHz	0320, 0720*, 1120*, 1520, 1920*, 2320*	*Weather only		

	Halifax, N.S (VCS)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings	Ch. 21B, 83B	0240, 1110, 1540	Remote stations: Ecum Secum, Fox Island, Sambro.		
vпг	Weather	Ch. 21B, 83B	Continuous except during live broadcasts 0240, 1540	Remote stations: Ecum Secum, Fox Island, Sambro.		
RT (MF)	Navigational warnings and weather	2749 kHz	0240, 0810*, 1540, 2010*	* Weather only. Remote station: Sambro.		

ઝ		Inuvik, N.W.T. (VFA)					
. 71	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
		Weather and navigational warnings	Ch. 26	0235, 1435	Inuvik and remote station Parson's Lake open during navigation season only, May - Oct. Remote station Cambridge Bay open July - Oct.		
	VHF	Weather and navigational warnings for NORDREG waters east of 106W and along the Labrador Coast southward to 58N	Ch. 26	0205*, 1240, 1410, 1705*, 2235, 2310	in English and French. Canadian Coast Guard. Station open during navigation season only, Jun Dec. Remote stations Coral Harbor and Resolute operational mid Jul to late Oct (approximately). *Ice only.		
		Ice reports	Ch. 26	On request	Inuvik and remote station Parson's Lake open during navigation season only, May - Oct. Remote station Cambridge Bay open July - Oct.		

		Inuvik, N.W.T	C. (VFA)	
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
DT (ME)	Weather and navigational warnings for NORDREG waters east of 106W and along the Labrador Coast southward to 58N	2514 kHz	0110, 0205*, 1320, 1410, 1705*, 2235	in English and French. Canadian Coast Guard. Station open during navigation season only, Jun Dec. Remote stations Coral Harbor and Resolute operational mid Jul to late Oct (approximately). *Ice only.
RT (MF)	Weather and navigational warnings for NORDREG waters east of 106W and along the Labrador Coast southward to 58N	2582 kHz	0205*, 1240, 1410, 1705*, 2235, 2310	in English and French. Canadian Coast Guard. Station open during navigation season only, Jun Dec. Remote stations Coral Harbor and Resolute operational mid Jul to late Oct (approximately). *Ice only.
	Weather and navigational warnings for NORDREG waters east of 106W and along the Labrador Coast southward to 58N	4363 kHz	0205*, 1240, 1410, 1705*, 2235, 2310	in English and French. Canadian Coast Guard. Station open during navigation season only, Jun Dec. Remote stations Coral Harbor and Resolute operational mid Jul to late Oct (approximately). *Ice only.
RT (HF)	Weather and navigational warnings for NORDREG waters east of 106W and along the Labrador Coast southward to 58N	6507 kHz	0110,0205*,1320,1410,1705*, 2235	in English and French. Canadian Coast Guard. Station open during navigation season only, Jun Dec. Remote stations Coral Harbor and Resolute operational mid Jul to late Oct (approximately). *Icc only.
	Weather and navigational warnings	4363, 6218.6 kHz	0235, 1435	Inuvik and remote station Parson's Lake open during navigation season only, Ma - Oct. Remote station Cambridge Bay open July - Oct.
	Ice reports	4363, 6218.6 kHz	On request	Inuvik and remote station Parson's Lake open during navigation season only, Ma - Oct. Remote station Cambridge Bay open July - Oct.
Radio-Telex	METAREA and NAVAREA XVII and XVIII weather forecasts for arctic waters that are not covered by the INMARSAT SafetyNet service	8416.5 kHz	0330, 1530	Canadian Coast Guard. Station open during navigation season only, Jun - Dec

	Inuvik, N.W.T. (VFA)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
NAVTEX	B1 Character: S Range: 300nm	490 kHz	0300*, 0700*, 1100, 1500*, 1900*, 2300	Operational Jun - Dec. *Weather only.		
	B1 Character: T Range: 300nm	518 kHz	0310*, 0710*, 1110, 1510*, 1910*, 2310	Operational Jun - Dec. *Weather only.		

	Labrador, Labr. (VOK)					
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
	VHF	Local navigational warnings, weather and ice	Ch. 21B, 83B	Continuous	Remote stations: Cartwright, Goose Bay, Hopedale, and Nain	
3 - 73	RT (MF)	Local weather & Ice	2598 kHz	0137, 1007, 1437*, 2037*	Remote stations: Cartwright and Hopedale. * Ice only	
	KI (MF)	Local navigational warnings	2598 kHz	1107, 2307	Remote stations: Cartwright and Hopedale.	
	NAVTEX	B1 Character: X Range: 300nm	518 kHz	0350*, 0750*, 1150, 1550*, 1950*, 2350	Operational Jul - Oct. *Weather only.	
		B1 Character: X Range: 300nm. Weather only.	518 kHz	0910, 2110	Arctic. Operational Jul - Oct.	

Les Escoumins, Que. (VCF)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
VHF	Local navigational warnings, weather and ice	Ch. 21B, 83B	Continuous	in English and French. Remote stations: Cap a l'Est, Grosses-Roches, Lac Daigle, Mont-Joli, Mont-Louis, Sacre Coeur. Hourly weather observations for specific locations, weather synopsis and MAFOR in English and French.

Montreal, Que. (VFN)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Local navigational warnings, weather and ice	Ch. 21B, 25B, 83B	Continuous	in English and French. Remote station L'Acadie (Ch. 83B) operational May - Oct. Remote station Mont Rigaud operational Mar - Dec. Other remote stations: Mont St. Bruno and Sorel. Hourly weather observations for specific locations, weather synopsis and MAFOR in English and French.	

	Placentia, Nfld. (VCP)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings and weather	Ch. 21B, 23B, 28B, 83B	Continuous	Placentia and Approches, Ferryland Head to Cape St. Mary's on VHF Ch. 23B only.		
RT (HF)	Local navigational warnings and weather	2598 kHz	0048, 0737, 1137*, 1607, 1807*, 2137	*Local navigational warnings only. Placentia and Approaches, Ferryland Head to Cape St. Mary's on VHF Ch. 23B only.		

3 - 74

	Port aux Basques, Nfld. (VOJ)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings, weather and ice	Ch. 21B, 28B, 83B	Continuous	Remote stations: Bonne Bay, Mount Moriah, Pine Tree, Pointe Riche, Ramea Island, Table Mountain.		
RT (MF)	Local navigational warnings and weather	2598 kHz	0207, 0807, 1207*, 1507, 1837*, 2107	*Local navigational warnings only. Remote station: Stephenville.		
	Ice	2598 kHz	0807, 1837			

	Prescott, Ont. (VBR)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings, weather, water levels and ice	Ch. 21B, 83B	Continuous	in English. Remote stations: Cardinal (operational Mar - Dec), Kingston, Cobourg, Fonthill, Orillia.		
	Local navigational warnings, weather, water levels and ice	Ch. 23B	Continuous	in French. Remote stations: Cardinal (operational Mar - Dec), Kingston.		
NAVTEX	B1 Character: H Range: 300nm	518 kHz	0110, 0510*, 0910*, 1310, 1710*, 2110*	Ice included in navigational warnings during ice season. *Weather only.		

		Prince Rupert, B.C. (VAJ)					
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
3 - 7.	VHF	Local navigational warnings and weather	WX1 (162.55 MHz), WX2 (162.40 MHz), WX3 (162.475 MHz), Ch. 21B	Continuous (interrupted during live broadcasts at 0115, 0715, 1315, 1915)	Continuous marine broadcast information available, Phone: +1 250 6249009. Remote stations: Barry Inlet, Calvert Island, Cumshewa, Dundas Island, Kitimat, Klemtu, Mount Dent, Mount Gil, Mount Hays, Naden Harbour, Rose Inlet, Van Inlet.		
U) -	RT (MF)	Local navigational warnings and weather	2054 kHz	0115, 0715, 1315, 1915	Continuous marine broadcast information available, Phone: +1 250 6249009. Remote stations: Hunter Point, Prince Rupert.		
	NAVTEX	B1 Character: D Range: 300nm	518 kHz	0030*, 0430, 0830*, 1230*, 1630, 2030*	*Weather only.		

Quebec, Que. (VCC)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Local navigational warnings, weather and ice	Ch. 21B, 83B	Continuous	in English and French. Hourly weather observations for specific locations, weather synopsis and MAFOR in English and French on request. Remote stations: Lauzon, Montmagny, Riviere-du-Loup, Trios-Rivieres.	

Riviere-au-Renard, Que. (VCG)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Local navigational warnings, weather and ice	Ch. 21B, 25B, 83B	Continuous	in English and French.* Weather only. Remote stations: Cap-aux-Meules, Carleton, Forillon, Harrington Hr, Havre St-Pierre, Heath Point, La Romaine, Natashquan, Newport. Hourly weather observations for specific locations, weather synopsis and MAFOR in English and French.	
RT (MF)	Local navigational warnings and ice	2598, 2749 kHz	0437*, 0847*, 0937, 1407*, 1737, 2317*	in English and French.* Weather only. Remote stations: Cap-aux-Meules, Carleton, Forillon, Harrington Hr, Havre St-Pierre, Heath Point, La Romaine, Natashquan, Newport. Hourly weather observations for specific locations, weather synopsis and MAFOR in English and French.	
NAVTEV	B1 Character: D Range: 300nm	490 kHz	0035**, 0435, 0835*, 1235*, 1635, 2035*	*Weather only. **Ice included in weather messages during ice season.	
NAVTEX	B1 Character: C Range: 300nm	518 kHz	0020**, 0420, 0820*, 1220*, 1620, 2020*	*Weather only. **Ice included in weather messages during ice season.	

	Saint John, N.B. (VAR)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings	Ch. 21B, 83B	0140, 1240, 1640	in English and French. Remote stations: Cape Blomidon, Lockeport, Yarmouth.		
VIII [*]	Weather	Ch. 21B, 83B	Continuous except during live broadcasts 0140, 1640	in English and French. Remote stations: Cape Blomidon, Lockeport, Yarmouth.		
RT (MF)	Navigational warnings and weather	2749 kHz	0140, 1040*, 1640, 2040*	in English and French. * Weather only. Remote station: Yarmouth.		

	Sarnia, Ont. (VBE)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings, weather, water levels and ice	Ch. 21B, 83B	Continuous	Remote stations: Kincardine, Sarnia, Leamington, Port Burwell.		

	St. Anthony, Nfld. (VCM)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local weather and ice	Ch. 21B, 83B	Continuous			
RT (MF)	Local navigational warnings and weather	2598 kHz	0107, 0907, 1237*, 1337, 1907*, 1937	*Local navigational warnings only. Remote station: St. Anthony		

		St. John's, Nfld. (VON)				
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
<u>ى</u>	VHF	Local navigational warnings, weather and ice	Ch. 21B, 28B, 83B	Continuous	Remote stations: Cape Bonavista, Lumsden, Victoria.	
3 - 77	RT (MF)	Local navigational warnings, weather and ice	2598 kHz	0007, 0837, 1307*, 1637, 2007, 2207*	*Local navigational warnings only.	
	NAVTEX	B1 Character: O Range: 300nm	518 kHz	summer: 0220*, 0620*, 1020, 1420*, 1820*, 2220, winter: 0220*, 0620, 1020*, 1420*, 2220*	*Weather only.	

Sydney, N.S. (VCO)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Navigational warnings	Ch. 21B, 83B	0040, 1010, 1440	in English and French. Remote stations: Cape Egmont, Cape North, Montague, Point Escuminac, Port Caledonia.	
VIII	Weather	Ch. 21B, 83B	Continuous except live broadcasts at 0040, 1440	in English and French. Remote stations: Cape Egmont, Cape North, Montague, Point Escuminac, Port Caledonia.	
RT (MF)	Navigational warnings and weather	2749 kHz	0040, 0740*,1440, 2010*	in English and French. *Weather only. Remote station: Port Caledonia.	

	Sydney, N.S. (VCO)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
	B1 Character: J Range: 300nm	490 kHz	0255, 0655*, 1055*, 1455, 1855*, 2255*	*Weather only. Ice included during ice season.	
NAVTEX	B1 Character: Q Range: 300nm	518 kHz	summer: 0240, 0640*, 1040*, 1440, 1840*, 2240* winter: 2240	*Weather only. Ice included during ice season.	

	Thunder Bay, Ont. (VBA)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Local navigational warnings, weather, water levels and ice.	Ch. 21B, 83B	Continuous	Remote stations: Bald Head, Horn, Sault Ste. Marie, Thunder Bay, Killarney, Meaford, Pointe au Brail, Silver Water, Tobermory.	
NAVTEX	B1 Character: P Range: 300nm	518 kHz	0230*, 0630, 1030*, 1430*, 1830, 2230*	Ice included during ice season. *Weather only.	

3 - 78	Tofino, B.C. (VAE)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings and weather	WX1 (162.55 MHz), WX2 (162.40 MHz), WX3 (162.475 MHz), Ch. 21B	Continuous (interrupted during live broadcasts at 0050, 0650, 1250, 1850)	Continuous marine broadcast information available, Phone: +1 250 7263415. Remote stations: Eliza Dome, Esperanza, Estevan Point, Holberg, Mount Ozzard, Nottka, Port Alberni.		
RT (MF)	Local navigational warnings and weather	2054 KHz	0050, 0650, 1250, 1850	Continuous marine broadcast information available, Phone: +1 250 7263415. Remote station: Amphitrite Point.		
NAVTEX	B1 Character: H Range: 300nm	518 kHz	0110*, 0510*, 0910, 1310*, 1710*, 2110	*Weather only.		

	Vancouver				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Local navigational warnings and weather	WX1 (162.550 MHz), Ch. 83B	Continuous (except during live broadcasts 0530, 1530, 2130)	Continuous marine broadcast information available, Phone: +1 604 6663655. Remote station: Watts Point.	

	Victoria, B.C (VAK)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Local navigational warnings and weather	WX3 (162.475 MHz), Ch. 21B	Continuous (interrupted during live broadcasts)	Continuous marine broadcast information available, Phone: +1 250 36365880, +1 250 3636492. Remote stations: Bowen Island, Mounte Parke, Mount Helmcken	

-	METAREA XVII				
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
3 - 79	METAREA	Weather	POR	0300, 1500	The USA issues marine forecasts for its jurisdictional coast and offshore waters north of Alaska.

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METAREA XVIII					
Туре	Type Nature of Broadcast Frequency/ Channel Times (UTC) Additional Information				
METAREA	Weather	AOR-W	0300, 1500		

	NAVAREA XVII					
Туре	Type Nature of Broadcast Frequency/ Channel Times (UTC) Additional Information					
NAVAREA	Navigational warnings	POR	1130, 2330			

	NAVAREA XVIII				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
NAVAREA	Navigational warnings	AOR-W	1100, 2300		

300AB. Canary Islands

	Las Palmas				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
RT (MF)	Local navigational warnings	1644, 1689 kHz	0803, 1903	After weather bulletin. Remote station: Arrecife.	
	Weather	1644, 1689 kHz	0803, 1233, 1903	in Spanish. Remote station: Arrecife.	

	Las Palmas (EAL)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
	B1 Character: A Range: 400nm	490 kHz	0000, 0400, 0800**, 1200**, 1600**, 2000	in Spanish. MMSI: 2240995. ** Navigational warnings & weather (when all are not selected).	
NAVTEX	B1 Character: I Range: 400nm	518 kHz	0120, 0520, 0920**, 1320**, 1720**, 2120	MMSI: 2240995. ** Navigational warnings & weather (when all are not selected).	

3 - 80	Tenerife					
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
	VHF	Local navigational warnings and weather	Ch. 20, 22, 23, 24, 25, 26, 27	0833, 1333*, 2033	in Spanish. *Weather only. Remote stations: Arrecife, Fuerteventura, Gomera, Hierro, La Palma, Las Palmas.	

	MRCC Tenerife					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
	Local navigational warnings	Ch. 74	On receipt	in Spanish and English.		
VHF	Weather	Ch. 74	0015, 0415, 0815, 1215, 1615, 2015	in Spanish and English.		

	Ribeira de Vinha (D4A)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
NAVTEY	B1 Character: P Range: 250nm	490 kHz	0230, 0630, 1030, 1430, 1830, 2230	in Portuguese.		
NAVTEX	B1 Character: U Range: 250nm	518 kHz	0320, 0720, 1120, 1520, 1920, 2320			

300AD. Channel Islands (UK)

	Jersey Coast Guard MRCC (GUD)					
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
3 - 81	VHF	Local navigational warnings	Ch. 82	0433, 0833, 1633, 2033	Broadcasts are made 1 hour later when daylight savings time is observed during broadcasts 0645, 0745, 0845 local time. Warnings after prior announcement on VHF Ch 16.	
	vHF	Weather	Ch. 82	0307, 0907, 1245, 1507, 1845, 2107, 2245, on request and receipt		

	Guernsey Coast Guard					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings and weather for Guernsey	Ch. 20	On request			

300AE. Chile

	Achao (CBP25)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Weather	Ch. 14	0120, 1320	in Spanish	

	Antofagasta (CBA)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Weather	Ch. 10	0055, 1305	in Spanish		
RT (MF)	Weather	2738 kHz	0045, 1250	in Spanish		
NAVTEX	B1 Character: H Range: 300nm	518 kHz	0000, 0800, 1600	in Spanish		
INAV IEA	B1 Character: A Range: 300nm	518 kHz	0400, 1200, 2000			

	MRSC Arica					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Weather	Ch. 14	0050, 1255	in Spanish		
RT (MF)	Weather	2738 kHz	0045, 1245	in Spanish		

		Bahia Felix (CBX)					
3	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
- 82	VHF	Weather	Ch. 14	0135, 1335	in Spanish		
	RT (MF)	Weather	2738 kHz	0215, 1415	in Spanish		

	Cabo Carranza, Faro					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Weather	Ch. 14	0150, 1350	in Spanish		
RT (MF)	Weather	2738 kHz	0145, 1345	in Spanish		

	MRSC Caldera					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Weather	Ch. 14	0045, 0645, 1245, 1845	in Spanish		
RT (MF)	Weather	2738 kHz	0040, 0640, 1240, 1840	in Spanish		

	MRSC Castro					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Weather	Ch. 14	0105, 1305	in Spanish		
RT (MF)	Weather	2738 kHz	0050, 1250	in Spanish		
RT (HF)	Weather	4146 kHz	0050, 1250	in Spanish		

	Chanarlal				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Weather	Ch. 14	0055, 1255	in Spanish	
RT (MF)	Weather	2738 kHz	0045, 1245	in Spanish	

	Constitucion				
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
.	VHF	Weather	Ch. 14	0255, 1455	in Spanish
83	RT (MF)	Weather	2738 kHz	0250, 1450	in Spanish

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MRSC Coquimbo				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
VHF	Weather	Ch. 14	0050, 1255	in Spanish
RT (MF)	Weather	2738 kHz	0045, 1245	in Spanish

	Diego Ramirez				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Weather for Drake Passage	Ch. 14	0110, 1310	in Spanish	
RT (MF)	Weather for Drake Passage	2738 kHz	0120, 1320	in Spanish	

	Huasco				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Weather	Ch. 14	0055, 1255	in Spanish	
RT (MF)	Weather	2738 kHz	0045, 1245	in Spanish	

	MRCC Iquique				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Weather	Ch. 14	0055, 1305	in Spanish	
RT (MF)	Weather	2738 kHz	0050, 1255	in Spanish	

	Isla Guafo, Faro					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Weather for Isla Guafo	Ch. 14	0350, 0950, 1550, 2150	in Spanish		
RT (MF)	Weather for Isla Guafo	2738 kHz	0340, 0940, 1540, 2140	in Spanish		
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	Isla Mocha, Faro				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Weather for Isla Mocha	Ch. 14	0210, 1410	in Spanish	
RT (MF)	Weather for Isla Mocha	2738 kHz	0205, 1405	in Spanish	

	Isla de Pascua-Easter Island (CBY)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Weather	Ch. 10, 14	0215, 1415, 1940	in Spanish	
RT (MF)	Weather	2738 kHz	0225, 1425, 1950	in Spanish	
NAVTEV	B1 Character: G Range: 300nm	518 kHz	0050, 0850, 1650	in Spanish	
NAVTEX	B1 Character: F Range: 300nm	518 kHz	0450, 1250, 2050		

	Isla Quiriquina, Faro				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Weather	Ch. 14	0155, 1355	in Spanish	

	Isla San Pedro				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Weather	Ch. 14	0120, 1320	in Spanish	
RT (MF)	Weather	2738 kHz	0105, 1305	in Spanish	

	Islote Fairway, Faro					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Weather	Ch. 14	0155, 1355	in Spanish		
RT (MF)	Weather	2738 kHz	0150, 1350	in Spanish		

3 - 85	Islotes Evangelistas, Faro				
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
	VHF	Weather	Ch. 14	0215, 1415	in Spanish
	RT (MF)	Weather	2738 kHz	0205, 1405	in Spanish

	Juan Fernandez					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Weather	Ch. 14	0205, 1405	in Spanish		
RT (MF)	Weather	2738 kHz	0220, 1420	in Spanish		

	Magallanes (CBM)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Weather	Ch. 10	0010, 1210	in Spanish		
RT (MF)	Weather	2738 kHz	0035, 1235	in Spanish		
RT (HF)	Weather	4146 kHz	0035, 1235	in Spanish		
NAVTEY	B1 Character: L Range: 300nm	518 kHz	0040, 0840, 1640	in Spanish		
NAVTEX	B1 Character: E Range: 300nm	518 kHz	0440, 1240, 2040			

	MRSC Puerto Aysen					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Weather	Ch. 14	0205, 1405	in Spanish		
RT (MF)	Weather	2738 kHz	0150, 1350	in Spanish		

Puerto Montt (CBP)					
- 86	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
	VHF	Weather	Ch. 10	1150, 2345	in Spanish.
Ī	RT (MF)	Weather	2738 kHz	1130, 2325	in Spanish.
Ī	RT (HF)	Weather	4146 kHz	1130, 2325	in Spanish.
Ī	NAVTEX	B1 Character: K Range: 300nm	518 kHz	0030, 0830, 1630	in Spanish.
	NAVIEA	B1 Character: D Range: 300nm	518 kHz	0430, 1230, 2030	

	Punta Corona, Faro					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Weather	Ch. 14	0050, 0650, 1250, 1850	in Spanish		
RT (MF)	Weather	2738 kHz	0045, 0645, 1245, 1845	in Spanish		

	Punta Delgada					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Weather	Ch. 14	0155, 1355	in Spanish		
RT (MF)	Weather	2738 kHz	0150, 1350	in Spanish		

	Punta Dungeness, Faro					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Weather	Ch. 14	0210, 1410	in Spanish		
RT (MF)	Weather	2738 kHz	0205, 1405	in Spanish		

	Quellon (CBP28)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Weather	Ch. 14	0130, 1330	in Spanish		
RT (MF)	Weather	2738 kHz	0115, 1315	in Spanish		

3 - 87

	MRSC San Antonio					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Weather	Ch. 14	0055, 1255	in Spanish		
RT (MF)	Weather	2738 kHz	0045, 1245	in Spanish		

	Talcahuano (CBT)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Weather	Ch. 10	0055, 1255	in Spanish		
RT (MF)	Weather	2738 kHz	0045, 1245	in Spanish		
NAVTEV	B1 Character: J Range: 300nm	518 kHz	0020, 0820, 1620	in Spanish		
NAVTEX	B1 Character: C Range: 300nm	518 kHz	0420, 1220, 2020			

	Tongoy				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Weather	Ch. 14	0150, 1350	in Spanish	

	Valparaiso Playa Ancha (CBV)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Weather	Ch. 10	1215, 2315	in Spanish.		
RT (MF)	Weather	2738 kHz	1235, 2335	in Spanish.		
RT (HF)	Weather	4357, 12583.5 kHz	1235, 2335	in Spanish.		
NAVTEX	B1 Character: Range: 300nm	B1 Character: I Range: 300nm	0010, 0810, 1610	in Spanish.		
	B1 Character: Range: 300nm	B1 Character: B Range: 300nm	0410, 1210, 2010			

		Wollaston				
3 - 88	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
	VHF	Weather	Ch. 14	0210, 1410	in Spanish	
	RT (MF)	Weather	2738 kHz	0205, 1405	in Spanish	

	METAREA XV					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
METAREA	Weather	AOR-W	1845			

	NAVAREA XV				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
NAVAREA	Navigational warnings	AOR-W	0210, 1410		

Dalian (XSZ)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
NAVTEX	B1 Character: R Range: 250nm	518 kHz	0250*,0650,1050*,1450,1850, 2250	*Weather only.	

	Fuzhou (XSL)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
NAVTEX	B1 Character: O Range: 250nm	518 kHz	0220, 0620, 1020, 1420, 1820, 2220	In English and Chinese. No weather bulletins.	

	Guangzhou (XSQ)					
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
		Weather	4219, 8431, 12622.5, 16854 kHz	1320		
3 -	Radio-Telex	Weather	6329, 8431, 12622.5, 16854 kHz	0120		
68		Local navigational warnings	6329, 8431, 12622.5, 16854 kHz	0720		
	NAVTEX	B1 Character: N Range: 250nm	518 kHz	0210*,0610,1010,1410*,1810, 2210	*Weather only.	

Hong Kong (VRX)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
NAVTEX	B1 Character: L Range: 400nm	518 kHz	0150, 0550, 0950, 1350, 1750, 2150	

	Tianjin (XSV)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
	Ice	4212.5, 8417.5, 12581.5 kHz	0500, 1200, 2300	in Chinese and English		
	Local navigational warnings	4212.5, 8417.5, 12581.5 kHz	0500, 1200, 2300	in Chinese.		
Radio-Telex	Weather	4212.5, 8417.5, 12581.5 kHz	0500, 0700, 1200, 1600, 2000, 2300			
	Local navigational warnings	4212.5, 8417.5, 12581.5 kHz	0700			

	Sanya (XSI)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
NAVTEX	B1 Character: M Range: 250nm	518 kHz	0200, 0600, 1000, 1400, 1800, 2200	no weather bulletins.	

		Shanghai (XSG)					
3	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
90	Radio-Telex	Local navigational warnings	4215, 6326, 8425.5, 12637.5, 16898.5 kHz	0250, 0650, 1350, 2350	in Chinese.		
	Radio-Telex	Local navigational warnings	4215, 6326, 8425.5, 12637.5, 16898.5 kHz	0250, 0850, 1350, 2350	in English.		
	NAVTEX	B1 Character: Q Range: 250nm	518 kHz	0240*, 0640, 1040*, 1440, 1840, 2240	*Weather only.		

300AG. Congo (Brazzaville)

	Pointe Noire (TNA)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
RT (MF)	Local navigational warnings of Congo	2705 kHz	0610, 0810, 1010, 1410, 1610	in French.	

	Rarotonga				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
RT (MF)	Coastal weather for Cook Islands	2207 kHz	0015, 0615, 1815		

300AI. Cote D'Ivore (Ivory Coast)

	Abidjan (TUA)			
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
RT (MF)	Local navigational warnings	2586 kHz	0848, 1248, 1948	in French.

300AJ. Croatia

		Split (9AS)					
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
3-91	VHF	Navigational warnings and weather	Ch. 07, 21, 23, 28, 81	0545, 1245, 1945	in Croatian and English. Remote stations: Celavac, Hum, Labistica, Sveti Mihovil, Vidova Gora.		
	NAVTEX	B1 Character: Q Range: 85nm	518 kHz	0240, 0640, 1040, 1440, 1840, 2240			

	Dubrovnik (9AD)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Navigational warnings and weather	Ch. 04, 07, 28, 85	0545, 1245, 1945	in Croatian and English. Remote stations: Gorica Sv. Vlaha, Hum, Ilijino Brdo, Uljenje.	

Rijeka (9AR)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
VHF	Navigational warnings and weather	Ch. 04, 20, 24, 81	0545, 1245, 1945	in Croatian and English. Remote stations: Kamenjak, Savudrija, Susak, Ucka.

	Habana (CLT)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
RT (MF)	Local navigational & military exercise warnings	2760 kHz	0205, 0605*, 1405, 1805*	in Spanish. *Military exercise warnings only.	

300AL. Curacao

	JRCC Curacao				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Weather	Ch. 16, 26, 27	On request		
RT (MF)	Weather	2182 kHz	On request		

300AM. Cyprus

ы ы	Cyprus (5BA)				
- 92	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
	VHF	Local navigational warnings and weather	Ch. 16	On receipt	
		Weather	Ch. 16	On request on VHF Ch. 16	
	RT (MF)	Local navigational warnings and weather	2700 kHz	On receipt	
	KI (WIF)	Weather	2700 kHz	On request on RT (MF) 2182 kHz	
	NAVTEX	B1 Character: M Range: 200nm	518 kHz	0200, 0600, 1000, 1400, 1800, 2200	

	Lyngby (OXZ)						
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information			
	Weather	Ch. 01-05, 07, 23, 61, 64-66, 83, 85	Forecasts on request, warnings on receipt	in Danish and English. Remote stations: Als, Anholt, Arsballe, Blavand, Bovbjerg, Fornaes, Frejlev, Hanstholm, Hirtshals, Karleby, Kobenhavn/Lynetten, Laeso, Mern, Rosnaes, Skagen, Svendborg, Vejby, Vejle.			
VHF	Navigational warnings	Ch. 01-05, 07, 23, 61, 64-66, 83, 85	0133, 0533, 0933, 1333, 1733, 2133	in Danish and English. Remote stations: Als, Anholt, Arsballe, Blavand, Bovbjerg, Fornaes, Frejlev, Hanstholm, Hirtshals, Karleby, Kobenhavn/Lynetten, Laeso, Mern, Rosnaes, Skagen, Svendborg, Vejby, Vejle.			
	Ice	Ch. 01-05, 07, 23, 61, 64-66, 83, 85	Every hour +05m while in force, 1305 (Report)	in Danish and English. Remote stations: Als, Anholt, Arsballe, Blavand, Bovbjerg, Fornaes, Frejlev, Hanstholm, Hirtshals, Karleby, Kobenhavn/Lynetten, Laeso, Mern, Rosnaes, Skagen, Svendborg, Vejby, Vejle.			
DSC MF	Navigational warnings, ice and weather	2187.5 kHz	On receipt	in Danish and English. Remote stations: Blavand, Skagen.			
	Weather	1704, 1734, 1758, 2586 kHz	Forecasts on request, warnings on receipt	in Danish and English. Remote stations: Blavand, Ronne, Skagen, Skamlebaek.			
RT (MF)	Navigational warnings	1704, 1734, 1758, 2586 kHz	0133, 0533, 0933, 1333, 1733, 2133	in Danish and English. Remote stations: Blavand, Ronne, Skagen, Skamlebaek.			
	Ice	1704, 1734, 1758, 2586 kHz	Every hour +05m while in force, 1305 (Report)	in Danish and English. Remote stations: Blavand, Ronne, Skagen, Skamlebaek.			

300AO. Ecuador

	Ayora (HCY)			
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
VHF	Local navigational warnings	Ch. 26	1350	

	Ayora (HCY)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
NAVTEX	B1 Character: A Range: 400nm	490 kHz	0000, 0400, 0800, 1200, 1600, 2000	Navigational warnings only.		
	B1 Character: L Range: 400nm	518 kHz	0150, 0550, 0950, 1350, 1750, 2150	Navigational warnings only.		

	Guayaquil (HCG)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Local navigational warnings	Ch. 26	0100, 1300, on request		
NAVTEX	B1 Character: M	518 kHz	0200, 0600, 1000, 1400, 1800, 2200		

300AP. Egypt

		Al Quseir						
3 - 94	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information			
	NAVTEX	B1 Character: V Range: 400nm	518 kHz	0330**, 0730, 1130, 1530**, 1930, 2330	**Navigational warnings & weather (when all are not selected)			

Alexandria				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
NAVTEX	B1 Character: N Range: 350nm	518 kHz	0210,0610,1010**,1410,1810, 2210**	**Navigational warnings & weather (when all are not selected)

	Ismailia				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
NAVTEX	B1 Character: X Range: 400nm	518 kHz	0350, 0750, 1150, 1550, 1950, 2350	Navigational warnings only.	

	Tallinn (ESA)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Navigational warnings and weather	Ch. 69	on receipt, 0233, 0433, 0633, 1033, 1333, 1433, 1833, 2233	After prior announcement on VHF Ch 16. Remote stations: Aabla, Dirhami, Eisma, Kopu, Merivalja, Orissaare, Ruhnu, Suurupi, Toila, Torgu, Tostamaa, Undva.		
RT (MF)	Weather	1650 kHz	0433, 1333	in English and Estonian. After prior announcement on RT (MF) 2182 kHz.		
KI (MIF)	Weather	3310 kHz	on receipt, 0233, 0633, 1033, 1433, 1833, 2233	in English and Estonian. After prior announcement on RT (MF) 2182 kHz.		
NAVTEX	B1 Character: U Range: 250nm	518 kHz	0320, 0720**, 1120, 1520, 1920**, 2320	Broadcasts are relayed by MSI Sweden/Stockholm radio ** Navigational warnings & weather (when all are not selected).		

300AR. Falkland Islands

3 - 9:		Falkland Islands Fisheries Department					
5	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
	RT (HF)	Local navigational warnings and weather	4066.1 kHz	0830 local time			

300AS. Faroe Islands

	Torshavn (OXJ)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings and weather	Ch. 23-26, 60-63	on receipt, every even hour +35m. Forecasts on request	in Faeroese and English. Remote stations: Eioiskollur, Fugloy, Halsurin, Kalsoy, Mykines, Sornfelli, Stoolafjall.		
RT (MF)	Local navigational warnings and weather	1641 kHz	on receipt, every even hour +35m. Forecasts on request	in Faeroese and English.		
NAVTEX	B1 Character: D	518 kHz	0030, 0430, 0830, 1230, 1630, 2030			

	Suva (3DP)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
RT (HF)	Coastal navigational warnings and weather	4372, 8746 kHz	0803, 1203, 1603, 2003 local time		
	Storm warnings	4372, 8746 kHz	Every hour +03m		

300AU. Finland

	Turku (OFK)					
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
3	VHF	Navigational warnings and weather	Ch. 01, 03-05, 07, 23-26, 28, 84	on receipt, 0233, 0633, 1033, 1433, 1833, 2233	Local navigatinal warnings in Finnish and Swedish. Remote stations: Espoo, Eurajoki, Geta, Hammarland, Hanko, Jarso, Kotka, Kristiinankaupunki, Kruunupyy, Kuivaniemi, Mustasaari, Nauvo, Raahe, Uto, Uusikaupunki, Virolahti.	
96		Ice	Ch. 01, 03-05, 07, 23-26, 28, 84	0803*, 1033, 1833	*Icebreaker locations only. Remote stations: Espoo, Eurajoki, Geta, Hammarland, Hanko, Jarso, Kotka, Kristiinankaupunki, Kruunupyy, Kuivaniemi, Mustasaari, Nauvo, Raahe, Uto, Uusikaupunki, Virolahti.	

		MRCC Corsen: CROSS					
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
		Weather	Ch. 79	on receipt, 0445, 0503, 0515, 0533, 0545, 0703, 0715, 0733, 0745, 0803, 1103*, 1115*, 1133*, 1145*, 1203*, 1533, 1545, 1603, 1615, 1633, 1903, 1915, 1933, 1945, 2003 local time, every hour +03m	in French. *01 May - 30 Sep. After prior announcement on frequencies VHF Ch 16. Remote stations: Bodic, Cap Frehel, Batz, Stiff, Le Raz.		
	VHF	Bulletins for Ouessant VTS	Ch. 79	Occasional. Every hour +10m, +40m	in French and English. Fog visibility when poor. After prior announcement on frequencies VHF Ch 16. Remotes stations: Bodic, Cap Frehel, Batz, Stiff, Le Raz.		
		Local navigational warnings	Ch. 10	0830, 0845, 0900, 0915, 0930, 1630, 1645, 1700, 1715, 1730 local time	in French.		
3 -	RT (MF)	Local navigational warnings	1650, 2677 kHz	0735, 1935 local time	in French. After prior announcement on frequencies RT (MF) 2182 kHz.		
97	RT (MF)	Weather	1650, 2677 kHz	on receipt, 0815, 2015 local time, every hour +03m	in French. After prior announcement on frequencies RT (MF) 2182 kHz.		
	NAVTEX	B1 Character: E Range: 300nm	490 kHz	0040, 0440, 0840, 1240, 1640, 2040	In French.		
Ì	NAVTEX	B1 Character: A Range: 300nm	518 kHz	0000, 0400, 0800, 1200, 1600, 2000			

	MRCC Etel: CROSS					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
	Local navigational warnings	Ch. 10	on receipt, 0830, 0845, 0900, 0915, 1630, 1645, 1700, 1715 local time	in French. After prior announcement on frequencies VHF Ch 16. Remote stations: Beg Meil, Cap Ferret, Les Baleines, Piriac, Beg Melen, Chassiron, Chemoulin, Messanges, Grave, Saint-Julien, Saint-Sauveur, Socoa, Le Talut.		
VHF	Weather	Ch. 79	on receipt, every hour +03m, 0703, 0715, 0733, 0745, 0803, 1533, 1545, 1603, 1615, 1633, 1903*, 1915, 1933*, 1945, 2003 local time	in French. After prior announcement on frequencies VHF Ch 16. *Firing practice warnings. Remote stations: Chassiron, Soulac, Cap Ferret, Contis, Biarritz.		
	Local navigational warnings and weather	Ch. 80	on receipt, every hour +03m, 0703, 0715, 0733, 0745, 0803, 0815, 1533, 1545, 1603, 1615, 1633, 1645, 1903, 1915, 1933, 1945, 2003, 2015 local time	in French.After prior announcement on frequencies VHF Ch 16. Remote stations: Penmarc'h, Groix, Belle-lle, Saint-Nazaire, Yeu, Les Sables-d'Olonne.		

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	MRCC Gris-Nez: CROSS			
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
	Weather	Ch. 79	on receipt, every hour +03m, 0703, 0710, 0720, 1533, 1545, 1603, 1903, 1910, 1920	in French. After prior announcement on frequencies VHF Ch 16. Remote stations: Dunkerque, L'Ailly, Saint-Frieux, St-Valery-en-Caux.
VHF	Special bulletins when visibility falls below 2nm	Ch. 79	Every hour +25m	in French and English. After prior announcement on frequencies VHF Ch 16. Remote stations: Dunkerque, L'Ailly, Saint-Frieux, St-Valery-en-Caux.
	Bulletins for Dover Strait	Ch. 79	Every hour +10m	After prior announcement on frequencies VHF Ch 16. Remote stations: Dunkerque, L'Ailly, Saint-Frieux, St-Valery-en-Caux.
RT (MF)	Local navigational warnings and weather	1650, 2677 kHz	on receipt, every hour +03m, 0833, 2033 local time	in French. After prior announcement on frequencies RT (MF) 2182 kHz.

	MRCC Jobourg: CROSS				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Weather	Ch. 80	on receipt, every hour +20m, +50m, on request	in French and English. After prior announcement on VHF Ch 16. Remote stations: Antifer, Granville, Port-en-Bessin.	
	Weather	Ch. 80	on receipt, 0703, 0715, 0733, 0745, 0803, 1533, 1545, 1603, 1615, 1633, 1903, 1915, 1933, 1945, 2003 local time, every hour +03m	in French. After prior announcement on VHF Ch 16. Remote stations: Antifer, Granville, Port-en-Bessin.	
RT (MF)	Local navigational warnings	1650 kHz	0915, 2115 local time	in French. After prior announcement on RT (MF) 2182 kHz.	

	MRCC La Garde: CROSS				
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
3 - 99		Weather	Ch. 79	on receipt, 0703, 0715, 1518, 1530, 1903, 1915 local time, every hour +03m	in French. After prior announcement on VHF Ch 16. Remote stations: Neoulos/Port Vendres, Agde.
9		Weather	Ch. 80	on receipt, 0733, 0745, 0746, 0803, 1548, 1600, 1601, 1618, 1933, 1945, 1946, 2003 local time, every hour +10m	in French. After prior announcement on VHF Ch 16. Remote stations: Planier, Coudon/Toulon, Pic de l'Ours/Cannes.
	VHF	Weather	Ch. 16	0733, 0745, 0803, 0815, 0833, 0845, 1518, 1530, 1548, 1600, 1618, 1630, 1933, 1945, 2003, 2015, 2033, 2045 local time.	in French. Remote stations: Bear, Cap Corse, Cepet, Pertusato, Leucate, Porquerolles, Sagro, Alistro, Camarat, Sete, Chiappa, Dramont, Espiguette, Couronne, La Garoupe, Parata, Bec de l'Aigle, Farrat, Ile Rousse.
		Local navigational warnings	Ch. 16	0915, 0930, 0945, 1000, 1015, 1030, 1400, 1415, 1430, 1445, 1500, 1515 local time.	in French. Remote stations: Bear, Cap Corse, Cepet, Pertusato, Leucate, Porquerolles, Sagro, Alistro, Camarat, Sete, Chiappa, Dramont, Espiguette, Couronne, La Garoupe, Parata, Bec de l'Aigle, Farrat, Ile Rousse.

MRCC La Garde: CROSS				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
	Weather	1696, 2677 kHz	1000, 1600, 2200	in French and English. After prior announcement on RT (MF) 2182 kHz.
RT (MF)	Weather	1696, 2677 kHz	on receipt, 0103, 0503, 0903, 1303, 1703, 2103 local time	in French and English. After prior announcement on RT (MF) 2182 kHz.
	Local navigational warnings	1696, 2677 kHz	0833, 1603 local time	in French and English. After prior announcement on RT (MF) 2182 kHz.
NAVTEV	B1 Character: S Range: 250nm	490 kHz	0300, 0700, 1100, 1500, 1900, 2300	
NAVTEX	B1 Character: W Range: 250nm	518 kHz	0300, 0700, 1100, 1500, 1900, 2340	
METAREA II				

	METAREA II			
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
METAREA	Weather	AOR-E, AOR-W	0900, 2100	
		NAVAREA II		
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
NAVAREA	Navigational warnings	AOR-E, AOR-W, IOR	1630	

ſ			Cross Antilles- Guyane, MI	RCC Fort de France	
Ī	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
	VHF	Weather	Ch. 64	0900, 1230, 2000, 2200 local time	in French. Remote station: Pic Paradis.
	VHF	Weather	Ch. 64	0820, 1150, 1920, 2120 local time	in French. Remote station: Marie-Galante.
	VHF	Coastal navigational warnings after weather and Guadeloupe Firing Practice Area warnings	Ch. 64	1150, 1920 local time	in French. Warnings after prior announcement on VHF Ch. 16. Scheduled broadcasts may be suspended whilst SAR action is in progress. Remote station: Marie-Galante.
3-	VHF	Coastal navigational warnings after weather	Ch. 64	1230, 2000 local time	in French. Warnings after prior announcement on VHF Ch. 16. Scheduled broadcasts may be suspended whilst SAR action is in progress. Remote station: Pic Paradis.
	VHF	Weather	Ch. 79	0720, 1050, 1820, 2020 local time	in French. Remote station: Le Marin.
101	VHF	Weather	Ch. 79	0740, 1110, 1840, 2040 local time	in French. Remote station: Grande Riviere.
	VHF	Weather	Ch. 79	0800, 1130, 1900, 2100 local time	in French. Remote station: Basse-Terre.
	VHF	Coastal navigational warnings after weather	Ch. 79	1050, 2020 local time	in French. Warnings after prior announcement on VHF Ch. 16. Scheduled broadcasts may be suspended whilst SAR action is in progress. Remote station: Le Marin.
	VHF	Coastal navigational warnings after weather	Ch. 79	1110, 2040 local time	in French. Warnings after prior announcement on VHF Ch. 16. Scheduled broadcasts may be suspended whilst SAR action is in progress. Remote station: Grande Riviere.

		Cross Antilles- Guyane, M	RCC Fort de France	
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
VHF	Coastal navigational warnings after weather and Guadeloupe Firing Practice Area warnings	Ch. 79	1130, 1900 local time	in French. Warnings after prior announcement on VHF Ch. 16. Scheduled broadcasts may be suspended whilst SAR action is in progress. Remote station: Basse-Terre.
VHF	Weather	Ch. 80	0730, 1100, 1830, 2030 local time	in French. Remote station: Bellefontaine.
VHF	Weather	Ch. 80	0750, 1120, 1850, 2050 local time	in French. Remote station: La Caravelle.
VHF	Weather	Ch. 80	0810, 1140, 1910, 2110 local time	in French. Remote station: Basse-Terre.
VHF	Weather	Ch. 80	0830, 1200, 1930, 2130 local time	in French. Remote station: Basse-Terre.
VHF	Coastal navigational warnings after weather	Ch. 80	1100, 2030 local time	in French. Warnings after prior announcement on VHF Ch. 16. Scheduled broadcasts may be suspended whilst SAR action is in progress. Remote station: Bellefontaine.
VHF	Coastal navigational warnings after weather	Ch. 80	1120, 2050 local time	in French. Warnings after prior announcement on VHF Ch. 16. Scheduled broadcasts may be suspended whilst SAR action is in progress. Remote station: La Caravelle.
VHF	Coastal navigational warnings after weather and Guadeloupe Firing Practice Area warnings	Ch. 80	1140, 1910 local time	in French. Warnings after prior announcement on VHF Ch. 16. Scheduled broadcasts may be suspended whilst SAR action is in progress. Remote station: Basse-Terre.
VHF	Coastal navigational warnings after weather and Guadeloupe Firing Practice Area warnings	Ch. 80	1200, 1930 local time	in French. Warnings after prior announcement on VHF Ch. 16. Scheduled broadcasts may be suspended whilst SAR action is in progress. Remote station: Basse-Terre.
VHF	Tropical storm wanings	Ch. 64, 79, 80	Every hour +30m	in French and English.Remote stations: Le Marin, Bellefontaine, Grande Riviere, La Caravelle, Marie-Galante, Pic Paradis.

	Cross Antilles- Guyane, MRCC Fort de France				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
MF (RT)	Tropical storm warnings	2545 kHz	Every hour +00m	in French and English. Warnings after prior announcement on 2182 kHz. Remote station: Martinique.	
	Storm warnings	2545 kHz	0933, 1815 local time	in French and English. Warnings after prior announcement on 2182 kHz. Remote station: Martinique	

300AX. French Polynesia

	MRCC Papeete				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Weather	Ch. 26, 27	0630, 1200, 1600, 2000 local time	in French. Warnings after prior announcement on VHF Ch. 16.	
RT (HF)	Weather	8803 kHz	0730, 1200, 1630, 2030 local time	in French.	

ω 300AY. Germany

	Haburg (DDH-49)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
NAVTEX	B1 Character: L Range: 250nm	490 kHz	0150, 0550, 0950, 1350, 1750, 2150		
NAVIEA	B1 Character: S Range: 250nm	518 kHz	0300, 0700, 1100, 1500, 1900, 2300		

	MRCC Bremen				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Local navigational warnings and weather	Ch. 16	On receipt, every hour +00m, +30m until canceled	Remote stations: Blumenthal, Borkum, Cuxhaven, Helgoland, Kampen, Norderney, Stade, Wangerooge, Westerhever, Bastorf, Damp, Darssar Ort, Greifswalder Oie, Holnis, Marienleuchte, Rugen, Stralsund, Travemunde, Waterneverstorf.	

	Offenbach/Pinneberg (DDH, DDK)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
	Weather	147.3, 11039, 14467.3 kHz	on request, 0000, 0300, 0500, 0600, 0900, 0950*, 1200, 1500, 1715*, 1800, 2100	*Local navigational warnings in German and English.	
	Weather	4583, 7646, 10100.8 kHz	on request, 0000, 0300, 0515*, 0600, 0900, 1200, 1500, 1715*, 1800, 2100	*Local navigational warnings in German and English.	
Radio-Telex	Weather	147.3, 11039, 14467.3 kHz	0005, 0020, 0030, 0055, 0125, 0130, 0135, 0200, 0235, 0305, 0320, 0325, 0350, 0425, 0430, 0435, 0505, 0520, 0530, 0535, 0605, 0620, 0630, 0700, 0725, 0730, 0734, 0755, 0820, 0840, 0905, 0920, 0930, 1010, 1025, 1030, 1035, 1100, 1120, 1145, 1205, 1220, 1230, 1300, 1325, 1330, 1420, 1440, 1505, 1520, 1530, 1545, 1610, 1625, 1630, 1635, 1735, 1805, 1820, 1830, 1900, 1925, 1930, 1934, 1955, 2020, 2040, 2105, 2120, 2130, 2155, 2225, 2230, 2235, 2305.	in German.	
	Weather	4583, 7646, 10100.8 kHz	0005, 0020, 0030, 0035, 0200, 0305, 0320, 0330, 0355, 0415, 0440, 0535, 0550, 0603, 0604, 0630, 0735, 0815, 0835, 0850, 0905, 0930, 0955, 1015, 1035, 1110, 1115, 1135, 1150, 1205, 1210, 1335, 1435, 1450, 1505, 1530, 1550, 1557, 1610, 1635, 1735, 1750, 1803, 1804, 1830, 1935, 2015, 2035, 2050, 2105, 2130, 2155, 2215, 2235, 2315.		

	Offenbach/Pinneberg (DDH, DDK)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
Radio- Facsimile	Weather and ice	3855, 7880, 13882.5 kHz	0430, 0512, 0525, 0546, 0559, 0612, 0625, 0638, 0651, 0704, 0717, 0730, 0743, 0804, 0817, 0830, 0842, 0854, 0906, 0930*, 0945, 1007*, 1029, 1050, 1132, 1145, 1205, 1220, 1520*, 1540*, 1600, 1800, 1821, 1834, 1847, 1900, 1913, 1926, 1939, 2100*, 2115*, 2136, 2200 (Broadcast schedule at 1111)	* Ice only.		

	Seefiml (Hamburg) (DP07)					
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
3 - 105	VHF	Navigational warnings and weather	Ch. 23-27, 28, 60, 61, 66, 83	on receipt, 0745, 0945, 1245, 1645, 1945	in German. Operational Mar - Oct. After prior announcement on VHF Ch 16. Remote stations: Accumersiel, Borkum, Bremen, Elbe-Weser, Nordfriesland, Arkona, Flensburg, Kiel, Lubeck, Rostock.	

3 - 105

300AZ. Greece

	Corfu (SVK)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
NAVTEX	B1 Character: K Range: 280nm	518 kHz	0140, 0540, 0940, 1340, 1740, 2140		

	Heraklion (SVH)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
NAVTEX	B1 Character: H Range: 280nm	518 kHz	0110, 0510, 0910, 1310, 1710, 2110		

	Limnos (SVL)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
NAVTEX	B1 Character: L Range: 280 nm	518 kHz	0150, 0550, 0950, 1350, 1750, 2150		

	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
3 - 106	VHF	Weather	Ch. 01,02, 04, 23, 25, 27, 60, 63, 82, 83, 85	0600, 1000, 1600, 2200	in Greek and English. On request on Ch. 16. Remote stations: Astypalaia, Chios, Faistos, Kefallinia, Kerkyra, Knosos, Kythira, Limnos, Moustakos, Mytilini, Parnis, Patrai, Petalidion, Pilion, Rodos, Sfendamion, Siteia, Syros, Thasos.
	VHF	Navigational warnings	Ch. 01,02, 04, 23, 25, 27, 60, 63, 82, 83, 85	on receipt, 0500, 1100, 1730, 2330	in Greek and English. On request on Ch. 16. Remote stations: Astypalaia, Chios, Faistos, Kefallinia, Kerkyra, Knosos, Kythira, Limnos, Moustakos, Mytilini, Parnis, Patrai, Petalidion, Pilion, Rodos, Sfendamion, Siteia, Syros, Thasos.
		Weather	2624, 2799, 2730, 2830 kHz	on receipt, 0633, 0903, 1533, 2133	in Greek and English. Remote stations: Irakleio (SVH), Kerkyra (SVK), Limnos (SVL), Rodos (SVR).
	RT (MF)	Navigational warnings	2624, 2799 kHz	0703, 1133, 1733, 2333	in Greek and English. Remote stations: Irakleio (SVH), Kerkyra (SVK), Limnos (SVL), Rodos (SVR).
		Navigational warnings and weather	2730, 2830 kHz	0033, 0703, 1033, 1633	in Greek and English. Remote stations: Irakleio (SVH), Kerkyra (SVK), Limnos (SVL), Rodos (SVR).
	Radio-Telex	Weather	8424 kHz	0930, 2130	in Greek and English.
	Radio- Facsimile	Weather (Mediterranean and Aegean Sea).	4481, 8105 kHz	0845, 0857, 0909, 0921, 0933, 0945, 0957, 1009, 1021, 1033, 1044	Station operational 0845-1055 UTC.

	METAREA III				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
METAREA	Weather	AOR-E	1000, 2200		

		Aasiaat (OY	R)	
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
	Weather	Ch. 01-04, 23-28, 60, 63	0605, 1105, 1605, 2105 local time	in English, Dutch and Greenlandic. After prior announcement on VHF Ch 16. Remote stations: Angiit, Arsuutaa, Attup
VHF	Ice and weather	Ch. 01-04, 23-28, 60, 63	On request.	Vummannaa, Ikerasassuaq, Ilulissat, Illutalissuaq, Kangaamiut, Kangaarsuk, Maniitsoq, Nanortalik, Narsaq, Narsarsauq, Niaqornaq, Paamiut, Pingu, Qaarsorsuaq, Qaqatoqaq, Qaqortoq, Qingaaq, Quarmii Qaaja, Sermersooq, Simiutaq, Sermiligaaq, Sisimiut, Tinumanersuaq, Top 775, Uperniviup Qaqqaa, Uummannaq, Uunartuarsuup Qaqqaa.
	Navigational warnings	Ch. 01-04, 23-28, 60, 63	0035, 0335, 0635, 0935, 1235, 1535, 1835, 2135, on request	in English and Dutch. After prior announcement on VHF Ch 16. Remote stations: Angiit, Arsuutaa, Attup Uummannaa, Ikerasassuaq, Ilulissat, Illutalissuaq, Kangaamiut, Kangaarsuk, Maniitsoq, Nanortalik, Narsaq, Narsarsauq, Niaqornaq, Paamiut, Pingu, Qaarsorsuaq, Qaqatoqaq, Qaqortoq, Qingaaq, Quarmii Qaaja, Sermersooq, Simiutaq, Sermiligaaq, Sisimiut, Tinumanersuaq, Top 775, Uperniviup Qaqqaa, Uummannaq, Uunartuarsuup Qaqqaa.
	Weather	2116, 2129, 2265, 2400, 2225, 2250, 2304, 3125, 3276, 3280 kHz	0605, 1105, 1605, 2105 local time	in English, Dutch and Greenlandic. After prior announcement on RT (MF) 2182 kHz. Remote stations: Ikerasassuaq, Kook
RT (MF)	Ice and weather	2116, 2129, 2265, 2400, 2225, 2250, 2304, 3125, 3276, 3280 kHz	On request.	Island, Maniitsoq, Paamiut, Qeqertarsuaq, Simiutaq, Sisimiut, Tasiilaq, Upernavik, Uummannaq
	Navigational warnings	2116, 2129, 2265, 2400, 2225, 2250, 2304, 3125, 3276, 3280 kHz	0035, 0335, 0635, 0935, 1235, 1535, 1835, 2135, on request	in English and Dutch. After prior announcement on RT (MF) 2182 kHz. Remote stations: Ikerasassuaq, Kook Island, Maniitsoq, Paamiut, Qeqertarsuaq, Simiutaq, Sisimiut, Tasiilaq, Upernavik, Uummannaq

3 - 107

	Aasiaat (OYR)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
	Weather	6522, 4381 kHz	0605, 1105, 1605, 2105 local time	in English, Dutch and Greenlandic.		
RT (HF)	Ice and weather	6522, 4381 kHz	0605, 1105, 1605, 2105 local time	in English, Dutch and Greenlandic.		
	Navigational warnings	6522, 4381 kHz	0035, 0335, 0635, 0935, 1235, 1535, 1835, 2135, on request	in English and Dutch.		

	Island Commander Greenland				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Weather	Ch. 12	On receipt.	in English and Danish. Remote station: Groennedal.	

		Kook Island (Nuuk) (OXI)				
3 - 1	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
801	NAVTEX	B1 Character: W Range: 400nm	518 kHz	0340, 0740, 1140, 1540, 1940, 2340		

	Simiutaq (OXF)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
NAVTEX	B1 Character: M	518 kHz	0120, 0520, 0920, 1320, 1720, 2120		

	Upernavik (OYN)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
NAVTEX	B1 Character: I	518 kHz	0120, 0520, 0920, 1320, 1720, 2120		

Grenada Coast Guard (S. Georges), MRSC				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
VHF	Coastal weather	Ch. 16, 87	On request	

300BC. Guam (USA)

		Guam (NRV)				
Î	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
	VHF	Local Notice to Mariners and weather.	Ch. 22A	0900, 2100	U.S. Coast Guard.	
Ī	RT (MF)	Local Notice to Mariners and weather.	2670 kHz	0705, 2205	U.S. Coast Guard. Remote controlled by CAMSPAC (Point Reyes).	
Ĩ	RT (HF)	Maritime Safety Information (MSI), tsunami warnigns and weather.	6501, 13089 kHz	0330, 0930, 1530, 2130	U.S. Coast Guard. Remote controlled by CAMSPAC (Point Reyes).	
,	Radio-Telex	Weather for N Pacific Ocean West of 180 and the Indian Ocean.	12579, 16806.5, 22376 kHz	0230, 0500, 0900, 1500, 1900, 2315	U.S. Coast Guard.	
· 109	NAVTEX	B1 Character: V Range: 100nm	518 kHz	0100, 0500, 0900, 1300, 1700, 2100	U.S. Coast Guard.	

300BD. Iceland

	Grindavik (TFK)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
NAVTEX	B1 Character: K	518 kHz	0140, 0540, 0940, 1340, 1740, 2140		
	B1 Character: X	518 kHz	0350, 0750, 1150, 1550, 1950, 2350		

	Hornafjordur (Coast Guard Radio)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Weather	Ch. 25	on receipt, 0205, 0505, 0805, 1105, 1405, 1705, 2005, 2305	in Icelandic and English. After prior announcement on frequencies VHF Ch 16 and DSC VHF Ch 70. Broadcasts remotely controlled from Reykjavik. Remote station: Haoxl.		
RT (MF)	Weather	1659 kHz	on receipt, 0205, 0505, 0805, 1105, 1405, 1705, 2005, 2305	in Icelandic and English. After prior announcement on RT (MF) 2182 kHz. Broadcasts remotely controlled from Reykjavik.		

	Isafjordur (Coast Guard Radio)					
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
3 -	VHF	Weather	Ch. 23	on receipt, 0203, 0503, 0803, 1103, 1403, 1703, 2003, 2303	in Icelandic and English. After prior announcement on frequencies VHF Ch 16 and DSC VHF Ch 70. Broadcasts remotely controlled from Reykjavik. Remote station: Bolafjall.	
110	RT (MF)	Weather	2724 kHz	on receipt, 0203, 0503, 0803, 1103, 1403, 1703, 2003, 2303	in Icelandic and English. After prior announcement on RT (MF) 2182 kHz. Broadcasts remotely controlled from Reykjavik.	

	Neskaupstadur (Coast Guard Radio)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Weather	Ch. 23, 27	on receipt, 0203, 0503, 0803, 1103, 1403, 1703, 2003, 2303	in Icelandic and English. After prior announcement on frequencies VHF Ch 16 and DSC VHF Ch 70. Broadcasts remotely controlled from Reykjavik. Remote station: Graennipa, Hellisheioi.		
RT (MF)	Weather	1761 kHz	on receipt, 0203, 0503, 0803, 1103, 1403, 1703, 2003, 2303	in Icelandic and English. After prior announcement on RT (MF) 2182 kHz. Broadcasts remotely controlled from Reykjavik.		

	Reykjavik (TFA)						
Type Nature of Broadcast Frequency/ Channel Times (UTC)			Times (UTC)	Additional Information			
VHF	Weather	Ch. 26, 27	on receipt, 0205, 0505, 0805, 1105, 1405, 1705, 2005, 2305	in Icelandic and English. After prior announcement on frequencies VHF Ch 16 and DSC VHF Ch 70. Remote station: Haenuvik, Sandur, Thorbjorn.			
RT (MF)	Weather	1876 kHz	on receipt, 0205, 0505, 0805, 1105, 1405, 1705, 2005, 2305	in Icelandic and English. After prior announcement on RT (MF) 2182 kHz.			

	Saudanes (TFA)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
NAVTEX	B1 Character: E	518 kHz	0040, 0440, 0840, 1240, 1640, 2040			
NAVIEA	B1 Character: R	518 kHz	0250, 0650, 1050, 1450, 1850, 2250			

		Siglufjordur (Coast Guard Radio)					
చ	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
- 111	VHF	Weather	Ch. 24, 26, 27	on receipt, 0205, 0505, 0805, 1105, 1405, 1705, 2005, 2305	in Icelandic and English. After prior announcement on frequencies VHF Ch 16 and DSC VHF Ch 70. Broadcasts remotely controlled from Reykjavik. Remote station: Grimsey, Skagi, Vioarfjall.		
	RT (MF)	Weather	1883 kHz	on receipt, 0205, 0505, 0805, 1105, 1405, 1705, 2005, 2304	in Icelandic and English. After prior announcement on RT (MF) 2182 kHz. Broadcasts remotely controlled from Reykjavik.		

	Vestmannaeyjar (Coast Guard Radio)						
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information			
VHF	Weather	Ch. 26, 27	on receipt, 0203, 0503, 0803, 1103, 1403, 1703, 2003, 2303	in Icelandic and English. After prior announcement on RT (MF) 2182 kHz. Broadcasts remotely controlled from Reykjavik.			
RT (MF)	Weather	1713 kHz	on receipt, 0203, 0503, 0803, 1103, 1403, 1703, 2003, 2303	in Icelandic and English. After prior announcement on frequencies VHF Ch 16 and DSC VHF Ch 70. Broadcasts remotely controlled from Reykjavik. Remote station: Hafell, Klif.			

Chennai (Madras) (VWN)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
NAVTEX	B1 Character: P Range: 250nm	518 kHz	0230, 0630, 1030, 1430, 1830, 2230		

	Mumbai (Bombay) (VWB)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
NAVTEX	B1 Character: G Range: 250nm	518 kHz	0100, 0500, 0900, 1300, 1700, 2100			

	METAREA VIII					
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
	METAREA	Weather	IOR	0900, 1800	Northern part of AOR	
3 - 112				0130, 1330	Southern part of AOR. La Reunion.	
		Tropical Storm warnings	IOR	0000, 0600, 1200, 1800, as needed	East of 90E. La Reunion.	

	NAVAREA VIII				
Type Nature of Broadcast		Frequency/ Channel	Times (UTC)	Additional Information	
NAVAREA	Navigational warnings	IOR	1000		

300BF. Indonesia

	Amboina (PKE)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
NAVTEX	B1 Character: B Range: 300nm	518 kHz	0010, 0410, 0810, 1210, 1610, 2010		

	Jakarta (PKX)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
RT (MF)	Weather	2690 kHz	1100			
Radio-Telex	Weather and navigational warnings	8416.5 kHz	0000, 1130			
Radio-Telex	Weather and navigational warnings	16806.5 kHz	0030, 1200			
NAVTEX	B1 Character: E Range: 300nm	518 kHz	0040, 0440, 0840, 1240, 1640, 2040			

	Jayapura (PNK)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
NAVTEX	B1 Character: A Range: 300nm	518 kHz	0000, 0400, 0800, 1200, 1600, 2000		

	Makasar (PKF)				
з '	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
113	NAVTEX	B1 Character: D Range: 300nm	518 kHz	0030, 0430, 0830, 1230, 1630, 2030	

300BG. Iran

	Abbas Radio (EQI)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
	B1 Character: I Range: 300nm	490 kHz	0120, 0520, 0920, 1320, 1720, 2120	in Farsii.	
NAVTEX	B1 Character: F Range: 300nm	518 kHz	0050, 0450, 0850, 1250, 1650, 2050		

	Bandar Khomeyni (EQN)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings and weather	Ch. 18	0430*, 0500, 1230*, 1300	in English and Farsi. *Weather only. Broadcasts are made 1 hour later when daylight savings time is observed.		

	Bandar Raja'I (EQI)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings and weather	Ch. 18	0430*, 0500, 1230*, 1300	in English and Farsi. *Weather only. Broadcasts are made 1 hour later when daylight savings time is observed.		

	Bushehr (EQM)					
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
3-1	VHF	Local navigational warnings and weather	Ch. 18	0430*, 0500, 1230*, 1300	in English and Farsi. *Weather only. Broadcasts are made 1 hour later when daylight savings time is observed.	
14	NAVTEX	B1 Character: D Range: 300nm	490 kHz	0030, 0430, 0830, 1230, 1630, 2030	in Farsii.	
	NAVIEA	B1 Character: A Range: 300nm	518 kHz	0000, 0400, 0800, 1200, 1600, 2000		

Chabahar (EQJ)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
VHF	Local navigational warnings and weather	Ch. 18	0430*, 0500, 1230*, 1300	in English and Farsi. *Weather only. Broadcasts are made 1 hour later when daylight savings time is observed.

	Fereydoonkenar (EQO)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
	B1 Character: J Range: 300nm	490 kHz	0130, 0530, 0930, 1330, 1730, 2130	in Farsii.		
NAVTEX	B1 Character: G Range: 300nm	518 kHz	0100, 0500, 0900, 1300, 1700, 2100			

300BH. Ireland

	Dublin-Coastguard MRCC				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
	Local navigational warnings	Ch. 02, 04, 23, 83	on receipt, 0033, 0433, 0833, 1233, 1633, 2033	After prior announcement on VHF Ch 16. Remote stations: Carlingford, Mine Head, Rosslare, Wicklow Head.	
VHF	Weather	Ch. 02, 04, 23, 83	on receipt, 0033*, 0103, 0403, 0633*, 0703, 1003, 1233*, 1303, 1603, 1833*, 1903, 2203 local time	*Weather warnings. After prior announcement on VHF Ch 16. Remote stations: Carlingford, Mine Head, Rosslare, Wicklow Head.	

RADIO NAVIGATIONAL WARNINGS

3 - 115

	Malin Head-Coastguard MRSC (EJM)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Weather	Ch. 02, 23, 24, 26, 83	0033*, 0103, 0403, 0633*, 0703, 1003, 1233*, 1603, 1833*, 1903, 2203 local time	*Weather warnings. After prior announcement on VHF Ch 16.		
	Local navigational warnings	Ch. 02, 23, 24, 26, 83	on receipt, 0033, 0433, 0833, 1233, 1633, 2033	After prior announcement on VHF Ch 16.		
RT (MF)	Local navigational warnings	1677 kHz	on receipt, 0033, 0433, 0833, 1233, 1633, 2033	After prior announcement on RT (MF) 2182 kHz.		
NAVTEX	B1 Character: A Range: 400nm	490 kHz	0000, 0400, 0800, 1200, 1600, 2000	Inland weather.		
	B1 Character: Q Range: 400nm	518 kHz	0240, 0640, 1040, 1440, 1840, 2240			

Valentia-Coastguard MRSC (EJK)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Weather	Ch. 04, 23, 24, 26, 28	on receipt, 0033*, 0103, 0403, 0633*, 0703, 1003, 1233*, 1303, 1603, 1833*, 1903, 2203 local time	*Weather warnings. After prior announcement on VHF Ch 16.	
	Local navigational warnings	Ch. 04, 23, 24, 26, 28	on receipt, 0233, 0633, 1033, 1433, 1833, 2233	After prior announcement on VHF Ch 16.	
RT (MF)	Local navigational warnings	1752 kHz	on receipt, 0233, 0633, 1033, 1433, 1833, 2233		
KI (MF)	Weather	1752 kHz	on receipt, 0303, 0833, 0903, 1503, 2033, 2103		
NAVTEX	B1 Character: W Range: 400nm	518 kHz	0340, 0740, 1140, 1540, 1940, 2340		

300BI. Israel

ઝ		Haifa (4XO)					
- 116	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
	NAVTEX	B1 Character: P Range: 200nm	518 kHz	0020, 0230, 0420, 0630, 0820, 1030, 1220, 1430, 1620, 1830, 2020, 2230			

300BJ.	Italy
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		Roma	(IAR)	
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
	Weather	Ch. 01, 02, 04, 05, 07, 19-22, 25-28, 61-65, 79, 81-86	on receipt, 0135, 0735, 1335, 1935	in Italian and English. Remote stations: Abbate Argento, Bari, Monte Sardo, Casa d'Orso, Monte Calvario, Belvedere di Siracusa, Campo Lato Alto, Monte Lauro, Cefalu, Erice, Monte Pellegrino, Ustica, Forte Spuria, Gela, Mazara del Vallo, Monte San Calogero, Pantelleria, Grecale, lampedusa Ponente, Capo Colonna, Capo dell' Armi, Monteparano, Monte Titiolo, Punta Stilo, Monte Mancuso, Capri, Posillipo, Serra del Tuono, Varco del Salice, Silvi, Conconello, Forte Garibaldi, Monte Cero, Monte Conero, Monte Secco, Piancavallo, Ravenna, Badde Urbara, Margine Rosso, Monte Serpeddi, P. Campu Spina, Monte Limbara, Monte Moro, Monte Tului, Osilo, Porto Cervo, Castellaccio, Monte Bignone, Zoagli, Formia, Monte Argentario, Monte Cavo, Monte Paradiso, Gorgona, Monte Nero.
VHF	Navigational warnings	Ch. 01, 02, 05, 19-22, 25-27, 61, 62, 79, 81, 82, 84-86	on receipt, 0333, 0833, 1233, 1633, 2033	in Italian and English. Remote stations: Abbate Argento, Bari, Monte Sardo, Casa d'Orso, Monte Calvario, Belvedere di Siracusa, Campo Lato Alto, Monte Lauro, Cefalu, Erice, Monte Pellegrino, Ustica, Forte Spuria, Gela, Mazara del Vallo, Monte San Calogero, Pantelleria, Grecale, lampedusa Ponente, Capo Colonna, Capo dell' Armi, Monteparano, Monte Titiolo, Punta Stilo, Monte Mancuso, Capri, Posillipo, Serra del Tuono, Varco del Salice.
	Navigational warnings	Ch. 01, 02, 04, 07, 19, 20, 21, 25-28, 61, 62, 64, 65, 82, 83, 85	on receipt, 0403, 0803, 1133, 1603, 2003	in Italian and English. Remote stations: Silvi, Conconello, Forte Garibaldi, Monte Cero, Monte Conero, Monte Secco, Piancavallo, Ravenna, Badde Urbara, Margine Rosso, Monte Serpeddi, P. Campu Spina, Monte Limbara, Monte Moro, Monte Tului, Osilo, Porto Cervo, Castellaccio, Monte Bignone, Zoagli, Formia, Monte Argentario, Monte Cavo, Monte Paradiso, Gorgona, Monte Nero.
NAVTEX	B1 Character: R Range: 320nm	518 kHz	0250, 0650, 1050, 1450, 1850, 2250	

3 - 117

	Cagliari (IDC)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
RT (MF)	Navigational warnings and weather	2680 kHz	0135, 0403*, 0735, 0803*, 1203*, 1335, 1603*, 1935, 2003*	in Italian and English. * Navigational warnings only. Remote controlled by Roma Radio.	
NAVTEX	B1 Character: T Range: 320nm	518 kHz	0310, 0710, 1110, 1510, 1910, 2310		

	Augusta (IQA)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
RT (MF)	Navigational warnings and weather	2656 kHz	0135, 0333*, 0735, 0833*, 1233*, 1335, 1633*, 1935, 2033*	in Italian and English. * Navigational warnings only. Remote controlled by Roma Radio.	
NAVTEX	B1 Character: V Range: 320nm	518 kHz	0330, 0730, 1130, 1530, 1930, 2230		

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3-		Porto Torres (IZN)				
118	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
	RT (MF)	Navigational warnings and weather	2719 kHz	0135, 0403*, 0735, 0803*, 1203*, 1335, 1603*, 1935, 2003*	in Italian and English. * Navigational warnings only. Remote controlled by Roma Radio.	

	Ancona (IPA)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
RT (MF)	Navigational warnings and weather	2656 kHz	0135, 0403*, 0735, 0803*, 1203*, 1335, 1603*, 1935, 2003*	in Italian and English. * Navigational warnings only. Remote controlled by Roma Radio.	

RADIO NAVIGATIONAL WARNINGS

	Genova (ICB)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
RT (MF)	Navigational warnings and weather	2642 kHz	0135, 0403*, 0735, 0803*, 1203*, 1335, 1603*, 1935, 2003*	in Italian and English. * Navigational warnings only. Remote controlled by Roma Radio.	

	Livorno (IPL)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
RT (MF)	Navigational warnings and weather	1925 kHz	0135, 0403*, 0735, 0803*, 1203*, 1335, 1603*, 1935, 2003*	in Italian and English. * Navigational warnings only. Remote controlled by Roma Radio.	

	Civitavecchia (IPD)				
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
د 1-	RT (MF)	Navigational warnings and weather	1888 kHz	0135, 0403*, 0735, 0803*, 1203*, 1335, 1603*, 1935, 2003*	

3 - 119

	Napoli (IQH)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
RT (MF)	Navigational warnings and weather	2632 kHz	0135, 0333*, 0735, 0833*, 1233*, 1335, 1633*, 1935, 2033*			

	Messina (IDF)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
RT (MF)	Navigational warnings and weather	2789 kHz	0135, 0333*, 0735, 0833*, 1233*, 1335, 1633*, 1935, 2033*			

	Palermo (IPP)					
Type Nature of Broadcast		Frequency/ Channel	Times (UTC)	Additional Information		
RT (MF)	Navigational warnings and weather	1852 kHz	0135, 0333*, 0735, 0833*, 1233*, 1335, 1633*, 1935, 2033*			

	Mazara del Vallo (IQQ)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
RT (MF)	Navigational warnings and weather	2600 kHz	0135, 0333*, 0735, 0833*, 1233*, 1335, 1633*, 1935, 2033*	6 6		

Ī	Lampedusa (IQN)					
	Type Nature of Broadcast		Frequency/ Channel	Times (UTC)	Additional Information	
2 17	RT (MF)	Navigational warnings and weather	1876 kHz	0135, 0333*, 0735, 0833*, 1233*, 1335, 1633*, 1935, 2033*	in Italian and English. * Navigational warnings only. Remote controlled by Roma Radio.	

3 - 120

	Crotone (IPC)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
RT (MF)	Navigational warnings and weather	2663 kHz	0135, 0333*, 0735, 0833*, 1233*, 1335, 1633*, 1935, 2033*	in Italian and English. * Navigational warnings only. Remote controlled by Roma Radio.		

	Bari (IPB)					
Type Nature of Broadcast		Frequency/ Channel	Times (UTC)	Additional Information		
RT (MF)	Navigational warnings and weather	2579 kHz	0135, 0333*, 0735, 0833*, 1233*, 1335, 1633*, 1935, 2033*	in Italian and English. * Navigational warnings only. Remote controlled by Roma Radio.		

	San Benedetto del Tronto (IQP)					
Type Nature of Broadcast		Frequency/ Channel	Times (UTC)	Additional Information		
RT (MF)	Navigational warnings and weather	1855 kHz	0135, 0403*, 0735, 0803*, 1203*, 1335, 1603*, 1935, 2003*			

	Trieste (IQX)					
Туре	pe Nature of Broadcast Frequency/ Channel Times (UTC)		Additional Information			
RT (MF)	Navigational warnings and weather	2624 kHz	0135, 0403*, 0735, 0803*, 1203*, 1335, 1603*, 1935, 2003*	in Italian and English. * Navigational warnings only. Remote controlled by Roma Radio.		
NAVTEX	B1 Character: U Range: 320nm	518 kHz	0320, 0720, 1120, 1520, 1920, 2320			

300BK. Jamaica

3	Jamaica Coast Guard (6YX) MRCC				
- 121	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
	VHF	Navigational warnings and weather	Ch. 13	0130*, 1330, 1430*, 1830, 1900*	* weather only.
	VIII [,]	Hurricane and tropical storm warnings affecting Jamaica	Ch. 13	Every hour +30m	
Ĩ		Navigational warnings and weather	8291 kHz	1330, 1830	
	RT (HF)	Hurricane and tropical storm warnings affecting Jamaica	8291 kHz	Every hour +00m	

300BL. Japan

	Hiroshima (JNE) MRCC					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings and storm warnings	Ch. 16	on receipt, 1015, 1615 local time	in Japanese and English.		

	Hokkaido (JNL) MRCC					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings and storm warnings	Ch. 16	on receipt, 1025, 1625 local time	in Japanese and English.		

	Kagoshima (JNJ) MRCC					
Туј	be N	ature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VH	F Local nav storm war	igational warnings and nings	Ch. 16	on receipt, 1020, 1620 local time	in Japanese and English.	

	Kobe (JGD) MRCC				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Local navigational warnings and storm warnings	Ch. 16	on receipt, 1033, 1633 local time	in Japanese and English.	

3 - 12		Kushiro (JNX)					
22	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
	NAVTEX	B1 Character: K Range: 400nm	425 kHz	0140, 0540, 0940, 1340, 1740, 2140	In Japanese. Tsunami & ice warnings (Jan-April, 0930 & 1330) are issued when needed.		
		B1 Character: K Range: 400nm	518 kHz	0108, 0508, 0908, 1308, 1708, 2108	Ice: Jan-April, 0930 & 1330		

	Maizuru (JNC) MRCC				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Local navigational warnings and storm warnings	Ch. 16	on receipt, 1020, 1620 local time	in Japanese and English.	

	Moji (JNR) MRCC					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings and storm warnings	Ch. 16	on receipt, 1003, 1603 local time	in Japanese and English.		
NAVTEX	B1 Character: H Range: 400nm	425 kHz	0017, 0417, 0817, 1217, 1617, 2017	In Japanese. Tsunami & ice warnings are issued when needed.		
	B1 Character: H Range: 400nm	518 kHz	0110, 0510, 0910, 1310, 1710, 2110			

	Naha (JNB)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
NAVTEX	B1 Character: G Range: 400nm	425 kHz	0000, 0400, 0800, 1200, 1600, 2000	In Japanese. Tsunami & ice warnings are issued when needed.		
	B1 Character: G Range: 400nm	518 kHz	0100, 0500, 0900, 1300, 1700, 2100			

3 - 12		Nagoya (JNT) MRCC					
ы	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
	VHF	Local navigational warnings and storm warnings	Ch. 16	on receipt, 1010, 1610 local time	in Japanese and English.		

Niigata (JNV) MRCC					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Local navigational warnings and storm warnings	Ch. 16	on receipt, 1015, 1615 local time	in Japanese and English.	

	Okinawa (JNB) MRCC				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Local navigational warnings and storm warnings	Ch. 16	on receipt, 1010, 1610 local time	in Japanese and English.	

	Otaru (JLN)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
NAVTEX	B1 Character: J Range: 400nm	425 kHz	0051, 0451, 0851, 1251, 1651, 2051	In Japanese. Tsunami & ice warnings are issued when needed.		
	B1 Character: J Range: 400nm	518 kHz	0130, 0530, 0930, 1330, 1730, 2130			

	Shiogama (JNN) MRCC				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Local navigational warnings and storm warnings	Ch. 16	on receipt, 1033, 1633 local time	in Japanese and English.	

,		Yokohama (JGC)					
3 - 124	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
	VHF	Local navigational warnings and storm warnings	Ch. 16	on receipt, 1020, 1620 local time	in Japanese and English.		
	NAVTEY	B1 Character: I Range: 400nm	425 kHz	0034, 0434, 0834, 1234, 1634, 2034	In Japanese. Tsunami & ice warnings are issued when needed.		
	NAVTEX	B1 Character: I Range: 400nm	518 kHz	0120, 0520, 0920, 1320, 1720, 2120			

	NAVAREA XI					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
NAVAREA	Navigational warnings	IOR, POR	0005, 0805, 1205			

300BM. Jordan

Ababa (JYO)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
VHF	Navigational warnings and weather	Ch. 12, 77	On receipt	

Tarawa				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
RT (HF)	Local weather	4387 kHz	Every hour +00m	

300BO. Korea (Republic of)

Chukpyon (HL)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
NAVTEX	B1 Character: V	490 & 518 kHz	0330, 0730, 1130, 1530, 1930, 2330		
Gangneung (HLK)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
RT (MF)	Navigational warnings	2836 kHz	0903	in Korean and English.	
		Gunsan (HL	(N)		

Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
RT (MF)	Navigational warnings	2507 kHz	0403	in Korean and English.

Incheon (HLC)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
RT (MF)	Navigational warnings	2284 kHz	0003	in Korean and English.

	Jeju (HLE)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
RT (MF)	Navigational warnings	2299 kHz	0902, 1702	in Korean and English.	

Pyonsan (HL)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
NAVTEX	B1 Character: W	490 & 518 kHz	0340, 0740, 1140, 1540, 1940, 2340	

300BP. Kuwait

	Al Kuwayt (9KK)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
RT (MF)	Weather	2750 kHz	0530, 1730		

300BQ. Latvia

	Riga Rescue Radio (YLQ) MRCC					
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
3 - 126	VHF	Weather warnings	Ch. 71	Every hour +03m and +33m	in English and Latvian.After prior announcement on frequencies VHF Ch 16, DSC VHF Ch 70.	
	vпг	Local navigational warnings and weather	Ch. 71	0703, 1503 local time, on request	in English and Latvian. After prior announcement on frequencies VHF Ch 16, DSC VHF Ch 70.	

300BR. Lebanon

	Beyrouth					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Navigational warnings	Ch. 16	On request			
RT (MF)	Navigational warnings	2182 kHz	On request			

Tarabulus (Tripoli) (5AT)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
DT (ME)	Local navigational warnings	2182 kHz	on receipt, 0903, 1903	
RT (MF)	Weather	2197 kHz	0833, 1733	

300BT. Lithuania

Klaipeda (LYL) VTS				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
VHF	Weather	Ch. 09	on request	in Lithuanian, English and Russian. On request.

300BU. Madeira (Portugal)

3		Centro de Comunicacoes da Madeira (CTQ)				
- 127	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
	VHF	Local navigational warnings and weather	Ch. 11	1030, 1630 local time	in Portuguese and English.	
	RT (MF)	Local navigational warnings and weather	2657 kHz	0735, 1935	in Portuguese and English.	

	Porto Santo (CTQ)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
NAVTEX	B1 Character: M	490 kHz	0100, 0500, 0900, 1300, 1700, 2100	in Portuguese.		
NAVIEA	B1 Character: P	518 kHz	0230, 0630, 1030, 1430, 1830, 2230			

	Miri (9WR)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
NAVTEX	B1 Character: T Range: 350nm	518 kHz	0310**, 0710, 1110, 1510**, 1910, 2310	** Nav & weather (when all are not selected).		

	Penang (9MG)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Coastal navigational warnings	Ch. 16	0148, 0548, 0948, 1348, 1748, 2148	Remote stations: Kuantan, Port Klang.		
NAVTEX	B1 Character: U Range: 350nm	518 kHz	0320**, 0720, 1120, 1520**, 1920, 2320	** Nav & weather (when all are not selected).		

		Sandakan (9WS)					
ઝ	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
- 128	NAVTEX	B1 Character: S Range: 350nm	518 kHz	0300**, 0700, 1100, 1500**, 1900, 2300	** Nav & weather (when all are not selected).		

300BW. Malta

	RCC Malta						
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information			
VHF	Navigational warnings and weather	Ch. 01-04	0603*, 1003, 1603, 2103	* weather only. Warnings up to 10 days old are broadcast Mon-Sat. All warnings still in force are broadcast on Sun.			
RT (MF)	Navigational warnings and weather	2625 kHz	0603*, 1003, 1603, 2103	* weather only. Warnings up to 10 days old are broadcast Mon-Sat. All warnings still in force are broadcast on Sun.			
NAVTEX	B1 Character: O	518 kHz	0220, 0620, 1020, 1420, 1820, 2220				

	Valletta VTS					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Coastal weather	Ch. 11	0803, 1203, 1803, 2303 local time	After prior announcement on frequencies VHF Ch 12, 14 and 16.		

300BX. Mauritius

	Mauritius (3BM)					
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
	VHF	Weather	Ch. 14	on receipt, 0205, 1405	Warnings after prior announcement on VHF Ch 16. Cyclone warnings repeated every 2 hours.	
	RT (HF)	Weather	4402 kHz	0115, 0730*, 1315, 1930*	*Only when cyclone warning is in force. Cyclone warnings repeated every 2 hours. Warnings after prior announcement on RT (MF) 2182 kHz.	
3		Local navigational warnings	4402 kHz	0433, 1233, 1603	After prior announcement on RT (MF) 2182 kHz.	
	NAVTEX	B1 Character: C Range: 400nm	518 kHz	0020, 0420, 0820, 1220, 1620, 2020		

300BY. Mexico

Acapulco (XFA)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VIIE	Weather	Ch. 25	0335, 0935, 1535		
VHF	Navigational warnings	Ch. 26	0335, 0935, 1535		

Chetumal (XFP)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
VHF	Navigational warnings and weather	Ch. 26	0335, 0935, 1535	

	Ciudad Del Carmen (XFB)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Navigational warnings and weather	Ch. 26	0335, 0935, 1535			

	Coatzacoalcos (XFF)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Navigational warnings and weather	Ch. 26	0335, 0935, 1535			

Cozumel (XCF)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
VHF	Navigational warnings and weather	Ch. 26	0335, 0935, 1535	

		Ensenada (XFE)					
3 -	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
130	VHF	Weather	Ch. 25	0335, 0935, 1535			
	۷ПГ	Navigational warnings	Ch. 26	0335, 0935, 1535			

Lazaro Cardenas				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
VHF	Weather	Ch. 27	0335, 0935, 1535	
vпг	Navigational warnings	Ch. 26	0335, 0935, 1535	

Manzanillo (XFM)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
VHF	Weather	Ch. 25	0335, 0935, 1535	
VIII	Navigational warnings	Ch. 26	0335, 0935, 1535	

Mazatlan (XFL)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
VHF	Weather	Ch. 25	0335, 0935, 1535	
VHF	Navigational warnings	Ch. 26	0335, 0935, 1535	
RT (HF)	Navigational warnings	8514 kHz	0335, 0935, 1535	

Progreso				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
VHF	Navigational warnings and weather	Ch. 26	0335, 0935, 1535	
RT (HF)	Navigational warnings and weather	8514 kHz	0335, 0935, 1535	

	Puerto Vallarta				
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
3 - 131	VHF	Weather	Ch. 27	0335, 0935, 1535	
	VПГ	Navigational warnings	Ch. 26	0335, 0935, 1535	

Veracruz (XFU)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
VHF	Navigational warnings and weather	Ch. 26	0335, 0935, 1535	

300BZ. Monaco

	Monaco (3AC, 3AF)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Weather	Ch. 20, 23-25	Continuous. (Western Mediterranean 0930, 1403, 1903 local time)	in French and English.	

	Monaco (3AC, 3AF)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
RT (HF)	Weather	4363, 8728, 13146, 17260 kHz	0800, 0930, 1030 (Western Mediterranean 0930, 1403, 1903 local time)	in French and English.	

300CA. Montenegro

	Bar (40B)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Navigational warnings and weather	Ch. 24	0850, 1420, 2050	in Montenegrin and English. After prior announcement on frequencies VHF Ch 16, DSC VHF Ch 70.	
RT (HF)	Navigational warnings and weather	1720.4 kHz	0850, 1420, 2050	in Montenegrin and English. After prior announcement on RT (MF) 2182 kHz, DSC (MF) 2187.5 kHz.	

$_{\omega}$ 300CB. Morocco

- 132	Agadir (CND)					
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
	DT (ME)	Local navigational warnings	1911 kHz	1048, 1628	in French. After prior announcement on RT (MF) 2182 kHz.	
	RT (MF)	Weather	1911 kHz	on receipt, every hour +33m, 0935, 1615, on request	in French. After prior announcement on RT (MF) 2182 kHz.	

	Casablanca (CNP)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
RT (MF)	Local navigational warnings	2586 kHz	0918, 2028	in French. After prior announcement on RT (MF) 2182 kHz.		
	Weather	2586 kHz	Every hour +33m, 0945, 1645	in French. After prior announcement on RT (MF) 2182 kHz.		

	Casablanca (CNP)					
Туре	Type Nature of Broadcast Frequency/ Channel Times (UTC) Additional Information					
NAVTEX	B1 Character: M Range: 180nm	518 kHz	0200, 0600, 1000, 1400, 1800, 2200			

300CC. Namibia

Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Weather	Ch. 23, 26, 27	0935, 1235, 1635	Remote station: Luderitz (Ch. 23)	
vпг	Local navigational warnings	Ch. 23, 26, 27	0905, 1605	Remote station: Luderitz (Ch. 23)	
RT (MF)	Weather	2182 kHz	On receipt.		
	Weather	4357, 8719, 13077 kHz	0935, 1235, 1635		
RT (HF)	Local navigational warnings	4357, 8719, 13077 kHz	0905, 1605		
NAVTEX	B1 Character: B Range: 378nm	518 kHz	0010, 0410, 0810, 1210, 1610, 2010		

	Curacao (PJC)				
Type Nature of Broadcast Frequency/ Channel Times (UTC) Additional Information					
NAVTEX	B1 Character: H Range: 400nm	518 kHz	0110, 0510, 0910, 1310**, 1710, 2110	** Nav & weather (when all are not selected).	

300CE. Netherlands

	Den Helder (PBK)				
Туре	Type Nature of Broadcast Frequency/ Channel Times (UTC) Additional Information				
NAVTEX	B1 Character: P	518 kHz	0230, 0630, 1030, 1430, 1830, 2230		

	Netherlands Coast Guard (PBK)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
	Weather	Ch. 23, 83	0805, 1305, 1905, 2305 local time	After prior announcement on VHF Ch 16. Remote stations: Huisduinen, Ijmuiden,Kornwerderzand, Renesse, Schiermonnikoog, Wezep, Woensdrecht, Appingedam, Hoorn, Scheveningen, Schoorl, Westkapelle, West-Terschelling.	
VHF	Navigational warnings	Ch. 23, 83	0333, 0733, 1133*, 1533, 1933, 2333	*Includes Ice. After prior announcement on VHF Ch 16. Remote stations: Huisduinen, Ijmuiden,Kornwerderzand, Renesse, Schiermonnikoog, Wezep, Woensdrecht, Appingedam, Hoorn, Scheveningen, Schoorl, Westkapelle, West-Terschelling.	
RT (MF)	Navigational warnings and weather	3673 kHz	0333, 0733, 0940*, 1133**, 1533, 1933, 2140*, 2333	*Weather only. ** Navigational warnings, ice and weather. After prior announcement on RT (MF) 2182, 3673 kHz.	

ω 300CF. New Caledonia

34	Noumea (FJP)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
	Weather	Ch. 23-26, 28, 82, 83, 87	0630, 0930, 1515, 1830 local time	in French and in English on request. Remote stations: Fayaoue/Ouvea, Kafeate, La Roche/Mare, Mandjelia, Mont Do, Mou/Lifou, Oungone.		
VHF	Local navigational warnings	Ch. 23-26, 28, 82, 83, 87	0415, 0730, 1930, 2230	in French and in English on request. Remote stations: Fayaoue/Ouvea, Kafeate, La Roche/Mare, Mandjelia, Mont Do, Mou/Lifou, Oungone.		

	Taupo Maritime Radio (ZLM)						
Туре	Type Nature of Broadcast Frequency/ Channel		Times (UTC)	Additional Information			
VHF	Local navigational warnings and weather for Chatham Islands.	Ch. 60, 62	0603, 1403, 1803, 2203 local time	Local time is 45m ahead of NZ standard time. Remote stations: Chatham Islands, Pitt Island. After prior announcement on VHF Ch 16.			
	Weather	Ch. 25, 67-69, 71	0133, 0533, 0733, 1033, 1333, 1733, 2133 local time	After prior announcement on VHF Ch 16.			
RT (MF)	Navigational warnings and weather	2207 kHz	0133, 0533, 0803, 1203, 1333, 1733, 2003 local time				
	Navigational warnings and weather	4146, 6224 kHz	0133, 0533, 0803*, 1203*, 1333, 1733, 2003* local time	* weather only.			
RT (HF)	Navigational warnings and weather	6224, 12356 kHz	0303, 0903, 1503, 2103 local time	Broadcasts are made 1 hour later when daylight savings time is observed.			
	Navigational warnings and weather	8297, 16531 kHz	0333, 0933, 1533, 2133 local time	Broadcasts are made 1 hour later when daylight savings time is observed.			

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	METAREA XIV					
Тур	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
METAF	EA Weather	POR	0130*, 0330**, 0930, 1330*, 1530**, 2130	*In local time & NZ coast only. The Bass Strait bulletins are Coastal Warnings and Forecasts transmitted onto SafetyNET Coastal Area D in NAVREA X. ** Storm warnings only.		

	NAVAREA XIV				
Type Nature of Broadcast Frequency/ Channel Times (UTC) Additional Information					
NAVAREA	Navigational warnings	POR	0900, 2100		

RADIO NAVIGATIONAL WARNINGS

300CH. Nigeria

	Lagos (5OW)				
Туре	Type Nature of Broadcast Frequency/ Channel Times (UTC) Additional Information				
NAVTEX	B1 Character: S	518 kHz	0300, 0700, 1100, 1500, 1900, 2300		

Port Harcourt (5OZ)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
NAVTEX	B1 Character: E	518 kHz	0040, 0440, 0840, 1240, 1640, 2040	

300CI. North Korea

		Hungnam (HMH)					
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
3 - 136	NAVTEY	B1 Character: E	490 kHz	0040, 0440, 0840, 1240, 1840, 2240	in Korean.		
	NAVTEX	B1 Character: E	518 kHz	0040, 0440, 0840, 1240, 1840, 2240			

Pyongyang (HMZ)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
NAVTEX	B1 Character: D	490 kHz	0030, 0430, 0830, 1230, 1630, 2230	in Korean.
	B1 Character: D	518 kHz	0030, 0430, 0830, 1230, 1630, 2230	

	Bodo (LGP)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Navigational warnings and weather	Ch. 01, 05, 07, 20-22, 27, 28, 60, 66, 78, 79, 81	on receipt, 0233, 0633, 1033, 1433, 1833, 2233	in English and Norwegian. Local weather and Ice on request. Remote stations: Andenes, Ramnan, Bjorndalen, Longyearbyen, Bjornoya, Ronvikfjell, Harstad, Harstadasen, Harstad, Sorollnes, Isfjord (Svalbard), Leirfjord, Horva, Lenvik, Kistefjell, Lodingen, Fenes, Meloy, Mo I Rana, Vattahaugen, Nesna, Raften/Svolvaer, Sorfold, Fornesfjell, Stamnes, Sortland, Steigen, Smatindane, Storheia/Hadsel, Tjeldsundet, Balstadasen, Traenfijord, Hestmannen, Tromso, Rostbakken, Hillesoy, Sandoy, Tonsnes, Tysfjord, Hellandsberg, Vaeroya, Vega, Gulsvagfjell, Veggen/Narvik, Vesteralen, Kraknes, Vestvagoy, Kvalnes, Vevelstad, Vistenfjord.		
	Navigational warnings and weather	1770 kHz	on receipt, 0233, 0633, 1033, 1433, 1833, 2233	in English and Norwegian. Ice on request.		
RT (MF)	Navigational warnings and weather	1659, 1731, 1743, 1710 kHz	on receipt, 0233, 0633, 1033, 1203, 1433, 1833, 2233, 2303	in English and Norwegian. Ice on request. Remote stations: Andenes, Isfjord (Svalbard), Jan Mayen, Sandnessjoen.		
RT (HF)	Navigational warnings and weather	4357 kHz	on receipt, 0233, 0633, 1033, 1203, 1433, 1833, 2233, 2303	in English and Norwegian. Ice on request. Remote station: Isfjord (Svalbard).		
NAVTEX	B1 Character: B Range: 450nm	518 kHz	0010, 0410, 0810, 1210, 1610, 2010			

	Floro (LGL)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Navigational warnings and weather	Ch. 01, 07, 20-22, 27, 28, 66, 78, 79, 81	on receipt, 0233, 0633, 1033, 1433, 1833, 2233	in English and Norwegian. Local weather and Ice on request.	
RT (MF)	Navigational warnings and weather	1680, 1782 kHz	on receipt, 0233, 0633, 1033, 1215*, 1433, 1833, 2233, 2315*	in English and Norwegian. * Weather only. Ice on request.	

3 - 137

Orlandet (LFO)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
NAVTEX	B1 Character: N Range: 450nm	518 kHz	0210, 0610, 1010, 1410, 1810, 2210	

Ī	Rogaland (LGQ)					
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
3 - 138	VHF	Navigational warnings and weather	Ch. 01, 07, 20-22, 27, 28, 60, 66, 78, 79, 81	on receipt, 0233, 0633, 1033, 1433, 1833, 2233	in English and Norwegian. Local weather and Ice on request. Remote stations: Bergen, Lindas, Gladihaug, Rundemanen, Bjerkreim, Urdalsnipa, Draupner (Rig), Ekofisk (Rig), Farsund, Frigg (Rig), Haugesund, Steinsfjeld, Heimdal (Rig), I.Hardanger, Grimo, Lifjell, Sandnes, Lindesnes, Skibmannsheia, Lista, Storefjell, Lyngdal, Kalaskniben, Mandal, Husheia, Sand, Prestasen, Sleipner A (Rig), Sotra, Pyttane, Stavanger, Ullandhaug, Stord, Kattnakken, Ula (Rig), Valhall (Rig), Y.Hardanger, Ljonesasen.	
	RT (MF)	Navigational warnings and weather	1728, 1785 kHz	on receipt, 0233, 0633, 1033, 1215*, 1433, 1833, 2233, 2315*	in English and Norwegian. Ice on request. * Weather only. Remote stations: Bergen, Farsund.	
	. /	Navigational warnings and weather	1692 kHz	on receipt, 0233, 0633, 1033, 1433, 1833, 2233	in English and Norwegian. Ice on request. Remote station: Vigre.	
Ì	NAVTEX	B1 Character: L Range: 450nm	518 kHz	0150, 0550, 0950, 1350, 1750, 2150		

	Tjome (LGT)						
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information			
VHF	Navigational warnings and weather	Ch. 01, 07, 20-22, 27, 66, 79, 81	on receipt, 0233, 0633, 1033, 1433, 1833, 2233	in English and Norwegian. Local weather and Ice on request. Remote stations: Arendal, Hisoya, Bangsberget, Mjosa, Drammen, Bukten, Halden, Hoyas, Horten, Kristiansand, Dolsveden, Lillesand, Justoya, Oslo, Tryvann, Porsgrunn, Vealos, Risor, Ranvikheia, Svendsheia, Sogne, Tjome, Tonsberg.			
RT (MF)	Navigational warnings and weather	1665 kHz	on receipt, 0233, 0633, 1033, 1433, 1833, 2233	in English and Norwegian. Ice on request.			

		Vardo (LGV)					
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
3 - 139	VHF	Navigational warnings and weather	Ch. 01, 07, 20-22, 27, 28, 60, 66, 78, 79	on receipt, 0233, 0633, 1033, 1433, 1833, 2233	in English and Norwegian. Local weather and Ice on request. Remote stations: Alta, Helligfjell, Batsfjord, Hamnefjell, Berlevag, Berlevagfjell, Hammerfest, Hammerfjell, Tyven, Hasvik, Fuglen, Havoysund, Havoygavlen, Karlsoy, Torsvag, Kirkenes, Lebesby, Oksen, Mehamn, Trollhetta, Nordkapp, Honningsvag, Skjervoy, Stussnesfjell, Trolltind, Tana, Algasvarre, Varangerfjord, Torsvarde, Vardo, Domen.		
	RT (MF)	Navigational warnings and weather	1635, 1695, 1713 kHz	on receipt, 0233, 0633, 1033, 1203*, 1433, 1833, 2233, 2303*	in English and Norwegian. Ice on request. * Weather only. Remote stations: Hammerfest, Berlevag.		
	Radio-Telex	METAREA XIX bulletins for arctic waters that are not covered by INMARSAT SafetyNet service	4210 kHz	0645*, 1115, 1845*, 2315	*includes ice. Remote station: Svalbard.		
	Kaulo-Telex	METAREA XIX bulletins for arctic waters that are not covered by INMARSAT SafetyNet service	8416.5 kHz	0630*, 1100, 2300*	* includes ice. Remote station: Svalbard.		
	NAVTEX	B1 Character: V Range: 450nm	518 kHz	0330, 0730, 1130, 1530, 1930, 2330			

METAREA XIX				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
METAREA	Weather	AOR-E	1100, 2300	

NAVAREA XIX				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
NAVAREA	Navigational warnings	AOR-E	0630, 1830	

300CK. Oman

Muscat (A4M)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
NAVTEX	B1 Character: M Range: 270nm	518 kHz	0200, 0600, 1000, 1400, 1800, 2200	

$_{\omega}$ 300CL. Pakistan

3 - 140	Karachi (ASK)					
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
	NAVTEX	B1 Character: P Range: 400nm	518 kHz	0230, 0630, 1030, 1430, 1830, 2230		

	METAREA IX				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
METAREA	Weather	IOR	0700		

	NAVAREA IX				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
NAVAREA	Navigational warnings	IOR	0800		

300CM. Papia New Guinea

	Port Moresby (P2M)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
DT (HE)	Local navigational warnings and weather	4405, 6510 kHz	On receipt, 0003, 0603. Gale warnings every hour +03m	Operating hours 2100 1200 LTC	
RT (HF)	Local navigational warnings		0603, 2203. Urgent warnings next even hour +03m	- Operating hours 2100 - 1200 UTC	

300CN. Peru

	Callao (OBC-3)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
NAVTEX	B1 Character: U Range: 400nm	518 kHz	0320, 0720*, 1120, 1520, 1920*, 2320	*Weather only	

3		Paita (OBY-2)					
- 141	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
	NAVTEX	B1 Character: S Range: 400nm	518 kHz	0300*, 0700, 1100, 1500*, 1900, 2300	*Weather only		

	Mollendo (OBF-4)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
NAVTEX	B1 Character: W Range: 400nm	518 kHz	0340, 0740, 1140*, 1540, 1940, 2340*	*Weather only	

	NAVAREA XVI				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
NAVAREA	Navigational warnings	AOR-W	0519, 1119, 1719, 2319		

	Manila (DZS-4)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings and weather.	Ch. 09, 16, 20	0030, 0330, 0630, 0930, 1230, on request			
RT (HF)	Local navigational warnings and weather.	8776.8 kHz	0030, 0330, 0630, 0930, 1230, on request			
NAVTEX	B1 Character: J Range: 320nm	518 kHz	0130, 0530, 0930, 1330, 1730, 2130			

Puerto Princesa (DVS)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
NAVTEX	B1 Character: I Range: 320nm	518 kHz	0120, 0520, 0920, 1320, 1720, 2120	

3 -		Davao (DWT)					
142	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
	NAVTEX	B1 Character: K Range: 320nm	518 kHz	0140, 0540, 0940, 1340, 1740, 2140			

	Monsanto (CTV)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
NAVTEX	B1 Character: G Range: 520nm	490 kHz	0100, 0500, 0900, 1300, 1700, 2100	in Portuguese		
	B1 Character: R Range: 520nm	518 kHz	0250, 0650, 1050, 1450, 1850, 2250			

RADIO NAVIGATIONAL WARNINGS

	Witowo (SPS)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Weather	Ch. 24-26	0135, 0735, 1335, 1935, on request			
	Coastal Navigational warnings	Ch. 24-26	0133, 0533, 0933, 1333, 1733, 2133, on request			
	Ice	Ch. 24-26	1035, 1335, on request	in English and Polish. After prior		
RT (MF)	Weather	2720 kHz	0135, 0735, 1335, 1935, on request	announcement on VHF Ch 16.		
	Coastal Navigational warnings	2720 kHz	0133, 0533, 0933, 1333, 1733, 2133, on request			
	Ice	2720 kHz	1035, 1335, on request			

	Slupsk VTS						
3 - 143	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
		Local navigational warnings	Ch. 10	0715, 1245, 1845, 2345 local time	in English and Polish. After prior announcement on VHF Ch 16, 71.		
	VHF	Weather. Ice reports on request	Ch. 12	0705, 1235, 1835, 2335 local time	in Polish. Ice can also be in Baltic Ice Code. After prior announcement on VHF Ch 16, 71.		

	Zatoka Gdansk VTS					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings and	Ch 66	0005, 0705, 1305, 1905 local time	in Polish. After prior announcement on VHF Ch 16, 71.		
VIII	weather	Ch. 66	0105, 0805, 1405, 2005 local time	in English. After prior announcement on VHF Ch 16, 71.		

	Swinoujscie VTS					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings	Ch. 71	0003, 0603, 1203, 1803 local time	in English and Polish. After prior announcement on VHF Ch 12.		

	Szczecin VTS					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings	Ch. 71	0533, 1133, 1733, 2333 local time	in English and Polish. After prior announcement on VHF Ch 69.		

300CQ. Portugal

	Alges								
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information				
	VHF	Local, Coastal navigational warnings	Ch. 11	0905, 2105	in Portuguese, repeated in English where possible.				
<u>א</u> '	RT (MF)	and weather	2657 kHz						
			Faro						
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information				
	VHF	Local, Coastal navigational warnings and weather	Ch. 11	0805, 2005	in Portuguese, repeated in English where possible.				

	Lisbon					
Туре	Type Nature of Broadcast Frequency/ Channel Times (UTC) Additional Information					
VHF	VHF Local navigational warnings Ch. 11 1100, 1630 local time in Portuguese.					

RADIO NAVIGATIONAL WARNINGS

	Leixoes					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local, Coastal navigational warnings and weather	Ch. 11	0705, 1905	in Portuguese, repeated in English where possible.		

	Setubal					
Type Nature of Broadcast Frequency/ Channel Times (UTC) Additional Information						
VHF	Local navigational warnings	Ch. 11	1100, 1630 local time	in Portuguese.		

300CR. Qatar

	Doha (A7D)					
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
	VHF	Weather	Ch. 24	0500, 1000, 1600		
3 -		Local navigational and weather warnings		On receipt.		
		Weather		0500, 1000, 1600		
	RT (MF)	Local navigational and weather warnings	2768 kHz	On receipt.		

		La Reunion-COSSRU, MRCC				
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
		Weather	Ch. 79	0705, 0735, 0805, 0835, 1205, 1235, 1305, 1335, 1805, 1835, 1905, 1935 local time	in French. After prior announcement on VHF Ch 16. Remote stations: Colorado, Le Plate, Manapany, Reservious.	
	VHF	Tropical Storm warnings		on receipt, every hour +05m, +20m, +35m, +50m	in French. After prior announcement on VHF Ch 16. Remote stations: Colorado, Le Plate, Manapany, Reservious.	
		Inshore and local navigational warnings		0715, 0730, 0745, 0800, 0945, 1000, 1015, 1030, 1300, 1315, 1330, 1345, 1500, 1515, 1530, 1545, 1800, 1815, 1830, 1845, 2000, 2015, 2030, 2045 local time	After prior announcement on VHF Ch 16. Remote stations: Colorado, Le Plate, Manapany, Reservious.	
		Weather		0830, 1430, 2030 local time	in French. After prior announcement on RT (MF) 2182 kHz.	
3 -	RT (MF)	Tropical Storm warnings	2600 kHz	on receipt, every hour +30m	After prior announcement on RT (MF) 2182 kHz.	
146		Inshore and local navigational warnings		0830, 1400, 1630 local time	After prior announcement on RT (MF) 2182 kHz.	

300CT. Romania

	Constanta (YQI)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Navigational warnings and weather	Ch.12, 24, 26	0703, 1003*, 1303, 1603*, 1903, 2203*	Weather in Romanian and English. Navigational warnings in English. *Navigational warnings only. After prior announcement on DSC VHF Ch 70.		
RT (MF)		2748 kHz	0733, 1033*, 1333, 1633*, 1933	Weather in Romanian and English. Navigational warnings in English. *Navigational warnings only. After prior announcement on DSC (MF) 2187.5 kHz.		

Constanta (YQI)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
NAVTEX	B1 Character: L Range: 400nm	490 kHz	0150, 0550, 0950, 1350, 1750, 2150	

300CU. Russia

Radio-Telex

Archangel (UGE)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
NAVTEX	B1 Character: L Range: 300nm	518 kHz	0050, 0450, 0850, 1250, 1650, 2050	

	Astrakhan (UJB)						
Ī	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
3	NAVTEX	B1 Character: W Range: 250nm	518 kHz	0340, 0740, 1140, 1540, 1940, 2340			
- 147		Beringovskiy					
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
	RT (MF)	Weather	2525, 3730 kHz	Continuous	Station open 15 May - 01 Dec.		
		, oution		Commuous	Station open is may of Dec.		

Kaliningrad (UIW)				
Type Nature of Broadcast		Frequency/ Channel Times (UTC)		Additional Information
Radio-Telex	Navigational warnings	4228, 8454, 12877.5, 16927 kHz	1000, 1620	

2182 kHz

Kholmsk (UFO)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
NAVTEX	B1 Character: B Range: 300nm	518 kHz	0010, 0410, 0810, 1210, 1610, 2010	

	Magadan (UIB)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
RT (MF)	Weather	2400 kHz	0203, 1233	in Russian.		
	Local navigational warnings		1303	in Russian.		
NAVTEX	B1 Character: D Range: 120nm	518 kHz	0030, 0430, 0830, 1230, 1630, 2030			

Murmansk (UDK, UDK2, UHY)					
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
3 - 148	Radio-Telex	Coastal warnings	- 13050 kHz	0400, 1730	in Russian. Broadcasts are made 1 hour later when daylight savings time is observed.
	Radio-Telex	Weather		0420, 1740	in Russian. Broadcasts are made 1 hour later when daylight savings time is observed.
	Radio-Facsimile	Weather and ice	6446, 7907 (1900-0600 UTC), 8444 kHz	0700, 0800, 1400, 1430, 2000 (Broadcast schedule at 1850)	
	NAVTEX	B1 Character: K Range: 300nm	518 kHz	0020, 0420, 0820, 1220, 1620, 2020	

Novorossiysk (UDN)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
NAVTEX	B1 Character: A Range: 300nm	518 kHz	0300, 0700, 1100, 1500, 1900, 2300	

	Okhotsk (UCV-2)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
RT (MF)	Weather	2560 kHz	0000, 0550, 1400, 2200	in Russian.	
NAVTEX	B1 Character: G Range: 300nm	518 kHz	0100, 0500, 0900, 1300, 1700, 2100		

Petropavlovsk (UBE-2)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
NAVTEX	B1 Character: C Range: 300nm	518 kHz	0020, 0420, 0820, 1220, 1620, 2020	

	Petropavlovsk-Kamchatskiy (UFH)				
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
		Navigational warnings and weather.	4255, 6405, 12825 kHz	0900, 2100	
3 1/0	Radio-Telex	Coastal Navigational warnings.	4323, 6360.5, 8451, 12603, 17045 kHz	0000, 0700	

Vladivostok (UFL, UFZ)						
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
		3165, 8595, 12729 kHz	1100, 2300			
	Navigational warnings and weather	3165, 8595, 12729 kHz	1130			
		3165, 8595, 12729, 17175.2 kHz	2330	Inforce message on Sundays.		
		4241, 6460 kHz	0900, 2300	in Russian.		
Radio-Telex		12799.5, 17155 kHz	2300	in Russian.		
		8643, 12799.5 kHz	0900	in Russian.		
		6314, 12579 kHz	0200, 1100			
		16806.5 kHz	0200			
		8416.5 kHz	1100			
NAVTEX	B1 Character: A Range: 230nm	518 kHz	0000, 0400, 0800, 1200, 1600, 2000			

	Yuzhno-Sakhalinsk				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
	Weather	4030, 6997 kHz	1900	in Russian.	
RT (HF)	weather	4480, 5170 kHz	0130, 0630	in Russian.	
	·				

	METAREA XIII				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
METAREA	Weather	POR	0930, 2130		

METAREA XX					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
METAREA	Weather	IOR	0600, 1800		

METAREA XXI					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
METAREA	Weather	POR	0600, 1800		

NAVAREA XIII				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
NAVAREA	Navigational warnings	POR	0930, 2130	

NAVAREA XX					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
NAVAREA	Navigational warnings	IOR	0530, 1730		

		NAVAREA XXI					
3	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
3 - 151	NAVAREA	Navigational warnings	POR	0630, 1830			

300CV. Saudi Arabia

Jiddah (HZH)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Local navigational warnings	On request			
V III	Weather	Ch. 25	On request		
	Local navigational warnings	- 1726 kHz	0333, 0733, 1133, 1533, 1933, 2333		
RT (MF)	Weather		0503, 0533, 1133, 1703, 1733, 2333		
NAVTEX	B1 Character: H Range: 390nm	518 kHz	0705, 1305, 1905		

Dakar (6VA)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
NAVTEX	B1 Character: M Range: 200nm	490 kHz	0200, 0600, 1000, 1400, 1800, 2200	
INAVIEA	B1 Character: C Range: 200nm	518 kHz	0020, 0420, 0820, 1220, 1620, 2020	

300CX. Seychelles

Seychelles				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
RT (HF)	Coastal weather	8770 kHz	0518, 1548	

300CY. Singapore

3 - 1	Singapore (9VG-49)				
52	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
	NAVTEX	B1 Character: C Range: 400nm	518 kHz	0020**, 0420, 0820, 1220**, 1620, 2020	** Nav & weather (when all are not selected)

300CZ. South Africa

	Cape Naval-NAVCOMCEN Cape (ZSJ)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
Radio-Facsimile	Weather	4014 (1600-0600 UTC), 7508, 13538, 18238(0600-1600 UTC) kHz	0430, 0500, 0630, 0730, 0800, 1030, 1100, 1530, 2230 (Broadcast schedule at 0430)	Only broadcast between Oct - Mar.	

	Cape Town (ZSC)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Navigational warnings and weather	Ch. 01, 03, 04, 23-28, 83-86	1015, 1333*, 1815	*Weather only. After prior announcement on VHF Ch 16. Remote stations: Albertinia, Alexander Bay, Bluff (Durban), Botha's Hill, Cape St. Lucia, Constantiagberg, Doringbaai, East London, Elandsbaai, Governorskop, Hermanus, Hondeklipbaai, Kareedouw, Knysna, Kosi Bay, Mazeppa Bay, Milnerton, Pearly Beach, Port Edward, Port Nolloth, Port Shepstone, Port St. Johns, Richards Bay, Saldanha Bay, Sodwana, Struisbaai		
RT (HF)		4375, 8740, 13146 kHz		*Weather only. After prior announcement on RT (MF) 2182 kHz.		
NAVTEX	B1 Character: C Range: 300nm	518 kHz	0020, 0420, 0820, 1220, 1620, 2020			

,	Durban (ZSD)				
5	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
	NAVTEX	B1 Character: O Range: 300nm	518 kHz	0220, 0620, 1020, 1420, 1820, 2220	

	Port Elizabeth (ZSQ)				
Туре	Type Nature of Broadcast Frequency/ Channel Times (UTC) Additional Information				
NAVTEX	B1 Character: I Range: 300nm	518 kHz	0120, 0520, 0920, 1320, 1720, 2120		

	METAREA VII				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
		AOR-W (west of 20E)			
METAREA	Weather	IOR (east of 20E)	0940, 1940	Forecasts for area 30S 50E and 50S 80E and tropical cyclone warnings are prepared by La Reunion.	

	NAVAREA VII				
Туре	Type Nature of Broadcast Frequency/ Channel Times (UTC) Additional Information				
NAVAREA	Navigational warnings	AOR-W, IOR	1940		

300DA. Spain

	MRSC Algeciras				
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
မ		Navigational warnings		On request	
154	VHF	Weather	Ch. 74	0315, 0515, 0715, 1115, 1515, 1915, 2315	in Spanish and English.

	MRCC Almeria				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Navigational warnings and weather	Ch. 74	Every odd hour +15m	in Spanish and English.	

	MRCC Barcelona				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
	Navigational warnings	Ch. 10	On receipt	in Spanish and English.	
VHF	Weather		0700, 1100, 1600, 2100 local time		

	MRCC Bilbao					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Navigational warnings and weather	Ch. 24, 26, 27, 60	0840, 1240*, 2010	in Spanish. *Weather only. Remote stations: Cabo Penas, Navia, Pasajes, Santandar		
VIII	Weather	Ch. 10, 74	on receipt, 0033, 0233, 0433, 0633, 0833, 1033, 1233, 1433, 1833, 2033, 2233	in Spanish and English.		
RT (MF)	Navigational warnings and weather	1677, 1707 kHz	0703, 1303*, 1903	in Spanish. *Weather only. Remote stations: Cabo Penas, Machinchaco		

		Cabo de la Nao	(EAV)			
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
NAVTEX	B1 Character: M Range: 300nm	490 kHz	0200, 0600, 1000, 1400, 1800, 2200	in Spanish		
	B1 Character: X Range: 300nm	518 kHz	0350, 0750, 1150, 1550, 1950, 2350			
	MRSC Cadiz					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings and weather	Ch. 74	on receipt, 0315, 0715, 1115, 1515, 1915, 2315	in Spanish and English.		

	MRSC Cartagena					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
	Navigational warnings	Ch. 10	On receipt	in Spanish and English.		
VHF	Weather		0115, 0515, 0915, 1315, 1715, 2115			

	MRSC Castellon					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
	Navigational warnings	Ch. 74	On receipt	in Spanish and English.		
VHF	Weather		0603, 0630, 1003, 1030, 1603, 1630, 2103, 2130 local time			

	MRSC Coruna (EAR)						
ľ	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
		Navigational warnings	Ch 10	0205, 0605, 1005, 1405, 1805, 2205	in Sponish and English		
VHF	VHF	Weather	Ch. 10	0005, 0405, 0805, 1205, 1605, 2005	in Spanish and English.		
		Navigational warnings and weather	Ch. 02, 21, 22, 26, 65	0840, 1240*, 2010	in Spanish. *Weather only. Remote stations: Cabo Ortegal, Finisterre, La Guardia, Vigo		
	RT (MF)	Navigational warnings and weather	1698, 1764 kHz	0703, 1303*, 1903	in Spanish. *Weather only. Remote station: Finisterre		
I56 NAV	NAVTEX	B1 Character: W Range: 400nm	490 kHz	0340, 0740, 1140, 1540, 1940, 2340	in Spanish		
	NAV IEA	B1 Character: D Range: 400nm	518 kHz	0030, 0430, 0830, 1230, 1630, 2030			

	MRCC Finisterre					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Navigational warnings	Ch. 11	0033, 0433, 0833, 1233, 1633, 2033	- in Spanish and English.		
	Weather		0233, 0633, 1033, 1433, 1833, 2233			

	MRCC Gijon					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHE	Navigational warnings	Ch. 10	Every hour +15m	- in Spanish and English.		
VHF	Weather		Every even hour +15m			

	MRSC Huelva					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHE	Navigational warnings	CL 10	On receipt	- in Spanish and English.		
VHF	Weather	Ch. 10	0415, 0815, 1215, 1615, 2015			

	Malaga					
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
3-	VHF	Navigational warnings and weather	Ch. 26, 27, 81	0833, 1133*, 2003	in Spanish. *Weather only. Remote stations: Cabo Gata, Cadiz, Malaga, Tarifa	
157	RT (MF)		1656, 1704 kHz	0733, 1233*, 1933	in Spanish. *Weather only. Remote stations: Chipiona, Tarifa	

	MRSC Palamos					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
	Navigational warnings	Ch. 74	On receipt	in Spanish and English.		
VHF	Weather		0830, 1030, 1130, 1530, 2030 local time	Operational 01 Jul - 30 Sep.		

	MRCC Palma					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Navigational warnings	Ch 10	On receipt	- in Spanish and English.		
VHF	Weather	Ch. 10	0735, 1035, 1535, 2035			

	MRSC Santander					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Navigational warnings	Ch. 74	0045, 0445, 0845, 1245, 1645, 2045	in Spanish and English.		
	Weather		0245, 0445, 0645, 0845, 1045, 1445, 1845, 2245			

	MRCC Tarifa						
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information			
	Navigational warnings		On receipt				
VHF	Weather including fog (visibility) warnings	Ch. 10, 67	Every even hour +15m	in Spanish and English.			
NAVTEX	B1 Character: T Range: 400nm	490 kHz	0310, 0710, 1110, 1510, 1910, 2310	in Spanish			
NAVIEA	B1 Character: G Range: 400nm	518 kHz	0100, 0500, 0900, 1300, 1700, 2100				
		MRSC Tarrag	ona				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information			
VHF	Navigational warnings	Ch. 74	On receipt	in Spanish and English			
νпг	Weather	CII. /4	0533, 0933, 1533, 2033	in Spanish and English.			

	MRCC Valencia					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Navigational warnings and weather	Ch. 01, 03, 04, 20, 23, 25, 60, 85	0910, 1410*, 2110	in Spanish. *Weather only. Remote Stations: Alicante, Bagur, Barcelona, Cabo de la Nao, Cartagena, Castellon, Ibiza, Menorca, Palma, Tarragona		
		Ch. 10, 11	Every hour +15m	in Spanish.		
RT (MF)		1755, 1767 kHz	0750, 1303*, 1950	in Spanish. *Weather only. Remote stations: Palma, Cabo Gata		

	MRSC Vigo					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHE	Navigational warnings	Ch. 10	0215, 0615, 1015, 1415, 1815, 2215	in Spanish and English.		
VHF	Weather		0015, 0415, 0815, 1215, 1815, 2015	in Spainsn and English.		

150	NAVAREA III				
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
	NAVAREA	Navigational warnings	AOR-E	1200, 2400	

300DB. Suriname

	Paramaribo					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
RT (MF)	Weather	2818 kHz	1233, 2133, on request			

	Port Sudan				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHE	Weather	Ch. 20	0810, 2010		
VHF	Navigational warnings		on reciept and every hour		

300DD. Svalbard

	Svalbard (LGS)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
NAVTEX	B1 Character: A	518 kHz	0000, 0400, 0800, 1200, 1600, 2000		

300DE. Sweden

3		Hanosand (SAH)					
- 160	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
	NAVTEX	B1 Character: H Range: 300nm	518 kHz	0110, 0510, 0910, 1310, 1710, 2110			

	Stockholm Radio (SDJ)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
	Navigational warnings and weather	Ch. 01, 21-28, 62, 64-66, 78, 81, 84	0200, 0600, 1000, 1400*, 1800, 2200	in Swedish and English. * Includes ice. Remote stations: Faro (Gotland), Gavle, Gotska Sandon, Harnosand, Hoburgen (Gotland), Hudiksvall, Kalix, Kalmar, Karlshamn, Karlskrona, Kivik, Kramfors, Lulea, Mjallom, Nacka (Stockholm), Norrkoping, Olands Sodra Udde, Ornskoldsvik, Osthammar, Skelleftea, Sodertalje, Sundsvall, Svenska Hogarna, Toro, Umea, Vaddo, Vasteras, Vastervik, Visby (Gotland).		
VHF	Weather	Ch. 01, 21-28, 62, 64-66, 78, 81, 84	0830, 0845, 0900, 0915, 0930, 1630, 1645, 1700, 1715, 1730, 2130, 2145, 2200, 2215, 2230 local time	in Swedish. Operational 01 May - 31 Oct. After prior announcement on VHF Ch 16. Remote stations: Faro (Gotland), Gavle, Gotska Sandon, Harnosand, Hoburgen (Gotland), Hudiksvall, Kalix, Kalmar, Karlshamn, Karlskrona, Kivik, Kramfors, Lulea, Mjallom, Nacka (Stockholm), Norrkoping, Olands Sodra Udde, Ornskoldsvik, Osthammar, Skelleftea, Sodertalje, Sundsvall, Svenska Hogarna, Toro, Umea, Vaddo, Vasteras, Vastervik, Visby (Gotland).		
RT (MF)	Navigational warnings and weather	1779, 1797, 1710, 2733, 1674 kHz	0200, 0600, 1000, 1400*, 1800, 2200	in Swedish and English. * Includes ice. Ice on request as well. Remote stations: Bjuroklubb, Gislovshammar, Grimeton, Harnosand, Tingstade.		
NAVTEX	B1 Character: J Range: 300nm	518 kHz	0130, 0530, 0930, 1330, 1730, 2130			

Varberg (SAS)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
NAVTEX	B1 Character: I Range: 300nm	518 kHz	0120, 0520, 0920, 1320, 1720, 2120		

	Al Ladhiqiyah (Latakia)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Navigational warnings	Ch. 13	0400, 0800, 1200, 1600, 2000,			
RT (MF)		3624 kHz	2400			

	Tartus (Tartous)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Navigational warnings	Ch. 20	0400 0800 1200 1600			
RT (MF)		2662 kHz	0400, 0800, 1200, 1600			

300DG. Taiwan

	Chi-Lung (XSX)				
3 - 1	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
162	NAVTEX	B1 Character: P	518 kHz	0630, 1430, 2230	

10101211		e ro mil	0000, 1100, 2200				
	Linyan (XSW)						
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information			
NAVTEX	B1 Character: P	518 kHz	0200, 1000, 1800	broadcasts are remotely controlled from Chi-Lung			

300DH. Thailand

	Bangkok				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
RT (HF)	Weather	6765.1, 8743 kHz	0000, 0300, 0600, 0900, 1200, 1500, 1800, 2100	in Thai and English.	

	Bangkok (HAS)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
NAVTEX	B1 Character: F Range: 200nm	518 kHz	0050**, 0450, 0850**, 1250, 1650, 2050	** Nav & weather (when all are not selected)		

300DI. Tonga

	Nuku'alofa					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
RT (MF)	Local weather	2080 kHz	0133, 0833, 2033			

300DJ. Trinidad & Tobago

	North Post (A3A)					
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
3 - 1	VHF	F Navigational warnings and weather	Ch. 14	1250, 1850*, storm warnings on receipt	* Weather only	
63	RT (MF)	broadcasts	2735 kHz	1340*, 2040, storm warnings on receipt	weather only	

300DK. Tunisia

	La Goulette Port (3VW)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
	Navigational warnings	2182 kHz	On receipt, 0003, 0403, 0603, 1003, 1303, 1803, 1903, 2103			
RT (MF)	Weather	2182 kHz	On receipt, every hour +03m	in French.		
		1743 kHz	0405, 1905			

	Tunis (3VT)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
RT (MF)	Navigational warnings	2670 kHz	On receipt, 0803, 1203, 2003. On request	in French.		
	Weather		0805, 1705			
NAVTEX	B1 Character: V	518 kHz	0330, 0730, 1130, 1530, 1930, 2330			

300DL. Turkey

	Antalya (TAL)					
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
3 -]		Weather	Ch. 67	On receipt, 0700, 1900	in English and Turkish. Remote stations: Anamur, Cobandede, Dilektepe, Kazakin, Markiz, Palamut, Yumrutepe.	
	VHF			0730, 0900, 0930, 1130, 1330, 1530, 1730, 1930	in Turkish. Remote stations: Anamur, Cobandede, Dilektepe, Kazakin, Markiz, Palamut, Yumrutepe.	
164	NAVTEX	B1 Character: D	490 kHz	0030, 0430, 0830, 1230, 1630, 2030	In Turkish	
	NAVIEA	B1 Character: F	518 kHz	0050, 0450, 0850, 1250, 1650, 2050		

	Istanbul (TAH)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Weather	4405, 8812, 13128 kHz	1000, 1800	- in English and Turkish.		
VПГ		4560, 8431, 12654 kHz	0800, 2000			
RT (HF)	Weather	4405, 8812, 13128 kHz	1000, 1800	in English and Taultish		
Radio-Telex	Weather	4560, 8431, 12654 kHz	0800, 2000	in English and Turkish.		

	Istanbul (TAH)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
NAVTEV	NAVTEX B1 Character: D Range: 250-400nm	490 kHz	0010, 0410, 0810, 1210, 1610, 2010	In Turkish		
		518 kHz	0030, 0430, 0830, 1230, 1630, 2030			

	Izmir (TAN)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
NAVTEV	B1 Character: C Range: 250-400nm	490 kHz	0020, 0420, 082, 1220, 1620, 2020	In Turkish		
NAVTEX	B1 Character: I Range: 250-400nm	518 kHz	0120, 0520, 0920, 1320, 1720, 2120			

	Samsun (TAF)					
3 - 1	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
165	VHF	Weather	Ch. 67	On receipt, 0700, 1900	in English and Turkish. Remote stations: Akabat, Kikmen, Dutmen, Inebolu, Inebolu, Pazar, Yildiztepe, Zonguldak	
	VHF			0730, 0900, 0930, 1130, 1330, 1530, 1730, 1930	in Turkish. Remote stations: Akabat, Kikmen, Dutmen, Inebolu, Inebolu, Pazar, Yildiztepe, Zonguldak	
	NAVTEX	B1 Character: A Range: 250-400nm	490 kHz	0000, 0400, 0800, 1200, 1600, 2000	In Turkish	
		B1 Character: E Range: 250-400nm	518 kHz	0040, 0440, 0840, 1240, 1640, 2040		

	Kerch (UUO)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
RT (MF)	Navigational warnings and weather	4143 kHz	0233**, 1033*, 1833	*Navigational warnings and Ice. ** Navigational warnings only.		
			0633, 1433*, 2233**	In Russian. *Navigational warnings and Ice. ** Navigational warnings only.		
NAVTEV	B1 Character: U Range: 120nm	490 kHz	0320, 0720, 1120, 1520, 1920, 2320			
NAVTEX	B1 Character: G Range: 120nm	518 kHz	0100, 0500, 0900, 1300, 1700, 2100			

		Odessa (UTT, UUI)					
3 - 166	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
	RT (MF)	Navigational warnings and weather	3310 kHz	0423**, 1223*, 2023	*Navigational warnings and Ice. ** Navigational warnings only.		
				0023, 0823**, 1623*	In Russian. *Navigational warnings and Ice. ** Navigational warnings only.		
	NAVTEV	B1 Character: X Range: 280nm	490 kHz	0350, 0750, 1150, 1550, 1950, 2350			
	NAVTEX	B1 Character: C Range: 280nm	518 kHz	0020, 0420, 0820, 1220, 1620, 2020			

300DN. United States

	Anchorage, AK				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Navigational warnings and weather	Ch. 22A	On receipt		

	Annette, AK					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Weather	Ch. 09	0050, 1500	Broadcasts are made 1 hour later when daylight savings time is observed. After prior announcement on VHF Ch 16.		
RT (HF)		4125 kHz	0040, 1600	Broadcasts are made 1 hour later when daylight savings time is observed.		

	Astoria, OR (NMW)						
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information			
VHF	(MF) Local navigational warnings and weather	Ch. 22A	on receipt, 0533, 1733	U.S. Coast Guard.			
RT (MF)		eather 2670 kHz					
NAVTEX		518 kHz	0340, 0740, 1140, 1540, 1940, 2340				

3 -		Atlantic City, NJ (NMK-2)				
167	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
_	VHFLocal navigational warnings and weatherRT (MF)weather	Ch. 22A	on magint 1102 2202	U.S. Coast Guard.		
		weather	2670 kHz	on receipt, 1103, 2303	U.S. Coast Guard.	

	Baltimore, MD (NMX)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Local navigational warnings and weather	Ch. 22A	on receipt, 0130, 1205	U.S. Coast Guard.	

	Barrow, AK					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	- Weather	Ch. 68	0300, 1600, 2100	Broadcasts are made 1 hour later when daylight savings time is observed. After prior announcement on VHF Ch 16.		
RT (HF)		4125 kHz	0400, 1530	Operational 01 Apr - 31 Oct. Broadcasts are made 1 hour later when daylight savings time is observed.		

	Bethel, AK					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Weather	Ch. 66	0100, 1630	Broadcasts are made 1 hour later when daylight savings time is observed. After prior announcement on VHF Ch 16.		

	Boston, MA (NMF, NIK, NMF-7)					
3 - 1	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
168	VHF	Local navigational warnings and	Ch. 22A	on receipt 1025 2225		
	RT (MF)	weather	2670 kHz	on receipt, 1035, 2235		
		Ice (seasonal)	6314, 8416.5, 12579 kHz	0030	U.S. Coast Guard. Remotely controlled	
			8416.5, 12579, 16806.5 kHz	1218	from CAMSLANT.	
	Radio-Telex	Weather for North Atlantic, West of	6314, 8416.5, 12579 kHz	1630		
		35W, including the Caribbean Sea and Gulf of Mexico	6314, 8416.5, 12579 kHz	0140		
	NAVTEX	B1 Character: F Range: 200nm	518 kHz	0050, 0450, 0850, 1250, 1650, 2050	Navigational warnings include International Ice Patrol Bulletins (Feb-Jul)	

	Buffalo, NY (NMD-47)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings and weather	Ch. 22A	on receipt, 0255, 1455	U.S. Coast Guard.		

	Cambria, CA (NMQ)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
NAVTEX	B1 Character: Q Range: 350nm	518 kHz	0240, 0640, 1040, 1440, 1840, 2240	U.S. Coast Guard.		

	Cape Hatteras, NC (NMN-13)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings and weather	Ch. 22A	on receipt, 0100, 1055	U.S. Coast Guard.		
RT (MF)		2670 kHz	on receipt, 0133, 1303	U.S. Coasi Guaiu.		

Cape May, NJ				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
VHF	Local navigational warnings and weather	Ch. 22A	on receipt	U.S. Coast Guard.

	Charleston, SC (NMB, NME)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings and	Ch. 22A	on receipt, 0420, 1620			
RT (MF)	weather	2670 kHz	on receipt, 1200, 2200	U.S. Coast Guard.		
NAVTEX	B1 Character: E Range: 200nm	518 kHz	0040, 0440, 0840, 1240, 1640, 2040			

Chesapeake, VA (NMN) CAMSLANT, Portsmouth				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
VHF		Ch. 22A	on receipt, 0230, 1120	
RT (MF)	Local navigational warnings and weather	2670 kHz	on receipt, 0203, 1333	
		17314 kHz	1715*, 1730	
		4426 kHz	0330, 0500, 0515*, 0930	
	Navigational warnings	6501 kHz	0330, 0500, 0930, 1130, 1600, 2200, 2330	*Weather only. U.S. Coast Guard.
RT (HF)		8764 kHz		
кі (пг)		13089 kHz	1130, 1600, 1730, 2200, 2330	
		6501 kHz	0330, 0515, 0930, 1115, 1530,	
	Weather	8764 kHz	2130, 2315	
		13089 kHz	1115, 1530, 1715, 2130, 2315	
NAVTEX	B1 Character: N Range: 280nm	518 kHz	0210, 0610, 1010, 1410, 1810, 2210	

Chincoteague, VA (NMN-70, NMN-71)

Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
VHF	Local navigational warnings and	Ch. 22A	on receipt, 0200, 1145	U.S. Coast Guard.
RT (MF)	weather	2670 kHz	on receipt, 0233, 1403	U.S. Coast Guard.

	Cold Bay, AK				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Weather	Ch. 09	0215, 1815	Broadcasts are made 1 hour later when daylight savings time is observed. After prior announcement on VHF Ch 16.	
RT (HF)		4125 kHz	0530, 1930	Broadcasts are made 1 hour later when daylight savings time is observed.	

	Corpus Christi, TX (NOY-8)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Local navigational warnings and weather	Ch. 22A	on receipt, 1040, 1240, 1640, 2240 U.S. Coast Guard.	U.S. Coast Guard	
RT (MF)		2670 kHz		U.S. Coast Guard.	

	Detroit, MI (NMD-25)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Local navigational warnings and weather	Ch. 22A	on receipt, 0135, 1335	U.S. Coast Guard.	

	Fort Macon, NC (NMN-37)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings and	Ch. 22A	on receipt, 0130, 1030	U.S. Coast Guard.		
RT (MF)	weather	2670 kHz	on receipt, 0103, 1233	U.S. Coast Guard.		

	Galveston, TX (NOY)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings and weather	Ch. 22A	on receipt, 1050, 1250, 1650,	U.S. Coast Guard.		
RT (MF)		2670 kHz	2250	U.S. Coast Guard.		

	Grand Haven, MI (NMD-32)				
Type Nature of Broadcast Frequency/ Channel Times (UTC) Additional Information					
VHF	Local navigational warnings and weather	Ch. 22A	on receipt, 0235, 1435	U.S. Coast Guard.	

RADIO NAVIGATIONAL WARNINGS

	Honolulu, HI (NMO, NMO-2)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF		Ch. 22A	0500, 1700		
RT (MF)	Navigational warnings, tsunami warnings and weather	2670 kHz	0545, 1145, 1745, 2345		
		6501, 8764 kHz	0600, 1200		
RT (HF)		8764, 13089 kHz	0005, 1800	U.S. Coast Guard. Broadcasts are remotely controlled from CAMSPAC	
Radio-Telex	Weather	8416.5, 12579, 22376 kHz	0130, 2030	(Point Reyes).	
Radio-Telex	veatuer weaturer	8416.5, 12579 kHz	0730, 1330		
NAVTEX	B1 Character: O Range: 350nm	518 kHz	0220, 0620, 1020, 1420, 1820, 2220		

Humboldt Bay, CA (NMC-11)						
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings and	Ch. 22A	on receipt, 1615, 2315	U.S. Coort Crowd		
RT (MF)	weather	2670 kHz	on receipt, 0303, 1503	– U.S. Coast Guard.		

	Juneau, AK (NMJ)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Navigational warnings and weather	Ch. 22A	On receipt	U.S. Coast Guard.	

	Key West, FL (NOK)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Local navigational warnings and weather	Ch. 22A	on receipt, 1200, 2200	U.S. Coast Guard.	

	King Salmon, AK					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Weather	Ch. 09	0115, 1530	Broadcasts are made 1 hour later when daylight savings time is observed. After prior announcement on VHF Ch 16.		
RT (HF)		4125 kHz	0130, 1830	Broadcasts are made 1 hour later when daylight savings time is observed.		

	Kodiak, AK (NOJ)					
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
	VHF	Weather	Ch. 09	0200, 1500	Weather Office. Broadcasts are made 1 hour later when daylight savings time is observed. After prior announcement on VHF Ch 16. U.S. Coast Guard.	
		Navigational warnings and weather	6501 kHz	0203, 1645	U.S. Coast Guard.	
3 - 1	RT (HF)	Weather	4125 kHz	0400, 1700	Weather Office. Broadcasts are made 1 hour later when daylight savings time is observed. U.S. Coast Guard.	
173	NAVTEX	B1 Character: J Range: 200nm	518 kHz	0130, 0530, 0930, 1330, 1730, 2130	Areas east of Kodiak. U.S. Coast Guard.	
	INAVILA	B1 Character: X Range: 200nm	<i>Э</i> 16 КПZ	0350, 0750, 1150, 1550, 1950, 2350	Areas west of Kodiak. U.S. Coast Guard.	

	Kotzebue, AK				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Weather	Ch. 68	0030, 1530	Weather Office. Broadcasts are made 1 hour later when daylight savings time is observed. After prior announcement on VHF Ch 16.	

	Long Beach, CA (NMC, NMQ-9)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings and weather	Ch. 22A	on receipt, 0200, 1800	U.S. Coast Guard.		
RT (MF)		2670 kHz	on receipt, 0503, 1303, 2103	U.S. Coast Guard.		

	Long Island Sound, CT (NMY-15)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Local navigational warnings and weather	Ch. 22A	on receipt, 1120, 2320	U.S. Coast Guard.	

	Mayport, FL (NMV)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings and weather	Ch. 22A	on receipt, 1215, 2215	U.S. Coast Guard.		
RT (MF)		2670 kHz	on receipt, 0620, 1820	U.S. Coast Gualu.		

Miami, FL (NMA, NCF)

Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
VHF	Local navigational warnings and	Ch. 22A	on receipt, 1230, 2230	
RT (MF)	weather	2670 kHz	on receipt, 0350, 1550	U.S. Coast Guard.
NAVTEX	B1 Character: A Range: 240nm	518 kHz	0000, 0400, 0800, 1200, 1600, 2000	

	Milwaukee, WI (NMD-9)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Local navigational warnings and weather	Ch. 22A	on receipt, 0255, 1455	U.S. Coast Guard.	

Mobile, AL (NOQ, WLO)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Local navigational warnings and	Ch. 22A	on receipt, 1020, 1220, 1620,		
RT (MF)	weather	2670 kHz	2220		
RT (HF)	Weather for Gulf of Mexico, Southwest North Atlantic and Caribbean	4369, 4396, 6519, 8788, 8806, 13110, 13152, 17260, 17362, 22804 kHz	0500, 1100, 1700, 2300	U.S. Coast Guard.	
Radio-Telex	National Weather Service products, not a free service	4213, 6317, 8419, 8421, 8423.5, 12581.5, 12584.5, 16809, 16814, 19685.5, 22383.5 kHz	On request using command "WX+"		

	Moriches, NY (NMY-42)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Local navigational warnings and weather	Ch. 22A	on receipt 0010 1210	U.S. Coast Guard.	
RT (MF)		2670 kHz	on receipt, 0010, 1210	U.S. Coast Guard.	

	New Orleans, LA (NMG)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings and weather	Ch. 22A	1035, 1235, 1635, 2235			
RT (MF)		2670 kHz	on receipt, 0550, 1035, 1235, 1635, 2235	U.S. Coast Guard.		
RT (HF)		4316, 8502, 12788 kHz	on receipt, 0330, 0515, 0930, 1115, 1530, 1715, 2130, 2315	U.S. Coast Guard. Broadcasts are remotely controlled from CAMSLANT.		
NAVTEX	B1 Character: G Range: 200nm	518 kHz	0100, 0500, 0900, 1300, 1700, 2100	U.S. Coast Guard.		

	New York, NY (NMY-3)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Local navigational warnings and weather	Ch. 22A	on receipt, 1050, 2250	U.S. Coast Guard.	

	Nome, AK					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Weather	Ch. 09	0400, 1600	Weather Office. Broadcasts are made 1 hour later when daylight savings time is observed.		
RT (HF)		4125 kHz	0630, 2030	Weather Office. Broadcasts are made 1 hour later when daylight savings time is observed. After prior announcement on VHF Ch 16.		

	North Bend, OR (NOE)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings and weather	Ch. 22A	on receipt, 0603, 1803	U.S. Coast Guard.		
RT (MF)		2670 kHz				

Point Reyes, CA- CAMSPAC/San Francisco (NMC, NMC-17)					
3 - 176	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
•		RT (HF) Weather	4426 kHz	0430, 1030	
	RT (HF)		8764, 13089 kHz	0430, 1030, 1630, 2230	
			17314 kHz	1630, 2230	U.S. Coast Guard.
	Radio-Telex		8416.5, 16806.5 kHz	0015, 1730	
	NAVTEX	B1 Character: C Range: 350nm	518 kHz	0020, 0420, 0820, 1220, 1620, 2020	

	Port Angeles, WA (NOW)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Local navigational warnings and weather	Ch. 22A	on receipt, 0615, 1815	U.S. Coast Guard.	
RT (MF)		2670 kHz			

	Portland, ME (NMF-31)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings and weather	Ch. 22A	on magint 1105, 2205	U.S. Coast Guard.		
RT (MF)		2670 kHz	on receipt, 1105, 2305	U.S. Coasi Guara.		

	Portland, OR (NMW-44)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Local navigational warnings and weather	Ch. 22A	on receipt, 1745	U.S. Coast Guard.	

	Saint Paul Island, AK					
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
,	VHF	Weather	Ch. 06, 09	0200, 1500, 1630, 2300	Weather Office. Broadcasts are made 1 hour later when daylight savings time is observed. After prior announcement on VHF Ch 16.	

San Diego, CA

Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings and weather	Ch. 22A	On receipt	U.S. Coast Guard.		

	San Francisco, CA					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings and weather	Ch. 22A	on receipt, 1630, 1900, 2130	U.S. Coast Guard.		
RT (MF)		2670 kHz	on receipt, 0203, 1403	U.S. Coast Guard.		

	San Juan (NMR, NMR-1)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Local navigational warnings and weather	Ch. 22A	1210, 2210. Urgent warnings on reciept			
RT (MF)		2670 kHz	0305, 1505. Urgent warnings on reciept	U.S. Coast Guard.		
NAVTEX	B1 Character: R Range: 200nm	518 kHz	0250, 0650, 1050, 1450, 1850, 2250			

Sault St. Marie, MI (NOG)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
VHF	Local navigational warnings and weather	Ch. 22A	on receipt, 0005, 1205	U.S. Coast Guard.

	Seattle, WA (KLB)					
3 - 178	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
	VHF	Local navigational warnings and weather	Ch. 22A	on receipt, 0630, 1830	U.S. Coast Guard.	
	RT (HF)	Weather	4405, 8731, 13101, 17311 kHz	0800, 1500, 2000	U.S. Coast Guard. Remotely controlled by Mobile (WLO).	
	Radio-Telex	National Weather Service products, not a free service.	6318, 12590.5 kHz	On request using command "WX+"	U.S. Coast Guard. Remotely controlled by Mobile (WLO).	

Southwest Harbor, ME (NMF-44)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
VHF	Local navigational warnings and weather	Ch. 22A	on receipt, 1135, 2335	U.S. Coast Guard.
RT (MF)		2670 kHz		

St. Petersburg, FL (NME)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
VHF	Local navigational warnings and weather	Ch. 22A	on receipt, 1300, 2300	U.S. Coast Guard.
RT (MF)		2670 kHz	on receipt, 0320, 1420	U.S. Coast Guard.

Woods Hole, MA (NMF-2, NMF-3)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
VHF	Local navigational warnings and weather	Ch. 22A	on receipt, 1005, 2205	U.S. Coast Guard.
RT (MF)		2670 kHz	on receipt, 0440, 1640	U.S. Coasi Guaiu.

Yakutat, AK					
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
3 - 17	VHF	Weather	Ch. 09	0230, 1530	Weather Office. Broadcasts are made 1 hour later when daylight savings time is observed. After prior announcement on VHF Ch 16.
79	RT (HF)		4125 kHz	0430, 1415	Weather Office. Broadcasts are made 1 hour later when daylight savings time is observed.

	METAREA IV					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
METAREA	Weather	AOR-W	0430, 1030, 1630, 2230	High Seas forecasts containing tropical storm warnings also broadcast over AOR-E. Hurricane & Tropical Storm advisories are sent as required, up to 4 times daily per active tropical storm. Tsunami warnings are sent as required on AOR-W and AOR-E.		

	METAREA XII					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
		AOR-W		High Seas forecasts containing tropical		
METAREA	Weather	POR	0545, 1145, 1745, 2345	storm warnings also broadcast over AOR-E. Hurricane & Tropical Storm advisories are sent as required, up to 4 times daily per active tropical storm. Tsunami warnings are sent as required on AOR-W and AOR-E.		

METAREA XVI				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
METAREA	Weather	AOR-W	0515, 1115, 1715, 2315	

	NAVAREA IV						
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
3 -	NAVAREA	Navigational warnings	AOR-W	1000, 2200			
80		NAVAREA XII					
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
Ē	NAVAREA	Navigational warnings	AOR-W, POR	1030, 2230			

	MRCC Aberdeen- Coastguard				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
	Weather	Ch. 23, 84, 86	0130, 0430, 0730, 1030, 1330, 1630, 1930, 2230 local time	After prior announcement on VHF Ch 16. WZ: Original reports to Hydrographer of the Navy, Radio Navigational Warnings, Ministry of Defence.	
VHF	Coastal navigational warnings (WZ) and weather		On receipt, 0730, 1930 local time	After prior announcement on VHF Ch 16. WZ: Original reports to Hydrographer of the Navy, Radio Navigational Warnings, Ministry of Defence.	
RT (MF)	Weather	2226 kHz	On receipt, 0730, 1930 local time	WZ: Original reports to Hydrographer of the Navy, Radio Navigational Warnings, Ministry of Defence.	
KI (MF)	Coastal navigational warnings (WZ) and weather		0130, 0730, 1330, 1930 local time	WZ: Original reports to Hydrographer of the Navy, Radio Navigational Warnings, Ministry of Defence.	

3 - 1		MRCC Belfast-Coastguard					
181	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
	VHF	Coastal navigational warnings (WZ) and weather	Ch. 23, 84, 86	On receipt, 0110*, 0410*, 0710, 1010*, 1310*, 1610*, 1910, 2210* local time	*Weather only. Remote stations: Black Mountain, Limavady, Navar, Orlock Head, Slieve Martin, West Torr. WZ: Original reports to Hydrographer of the Navy, Radio Navigational Warnings, Ministry of Defence.		
	MF (HF)		1883 kHz	On receipt, 0810, 0210*, 1410*, 2010 local time	*Weather only. Remote station: Tiree. WZ: Original reports to Hydrographer of the Navy, Radio Navigational Warnings, Ministry of Defence.		

	MRCC Brixham-Coastguard					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Coastal navigational warnings (WZ) and weather	Ch. 10, 23, 84, 86	0110*, 0410*, 0710, 1010*, 1310*, 1610*, 1910, 2210* local time	*Weather only. After prior announcement on VHF Ch 16. Remote stations: Berry Head, Dartmouth, East Prawle, Fowey, Rame Head. WZ: Original reports to Hydrographer of the Navy, Radio Navigational Warnings, Ministry of Defence.		

	MRCC Clyde-Coastguard						
Type Nature of Broadcast Frequency/ Channel Time					Additional Information		
_ بر	VHF	Coastal navigational warnings (WZ) and weather	Ch. 10, 23, 84, 86	On receipt, 0210*, 0510*, 0810, 1110*, 1410*, 1710*, 2010, 2310* local time	*Weather only. After prior announcement on VHF Ch 16. Remote stations: Glengorm, Kilchiaran, Law Hill, Rhu Staffnish, South Knapdale, Tiree, Torosay. WZ: Original reports to Hydrographer of the Navy, Radio Navigational Warnings, Ministry of Defence.		
<u>5</u> _	Cullercoats (GCC)						

	Cullercoats (GCC)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
NAVTEX	B1 Character: U Range: 270nm	490 kHz	0720, 1920		
	B1 Character: G Range: 270nm	518 kHz	0100, 0500, 0900, 1300, 1700, 2100		

	MRCC Dover-Coastguard					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Coastal navigational warnings (WZ) and weather	Ch. 84, 86	On receipt, 0110*, 0410*, 0710, 1010*, 1310*, 1610*, 1910, 2210* local time	*Weather only. After prior announcement on VHF Ch 16. Remote stations: Fairlight, Langdon Battery. WZ: Original reports to Hydrographer of the Navy, Radio Navigational Warnings, Ministry of Defence.		

RADIO NAVIGATIONAL WARNINGS

	MRCC Falmouth-Coastguard					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Coastal navigational warnings (WZ) and weather	Ch. 23, 84, 86	On receipt, 0110*, 0410*, 0710, 1010*, 1310*, 1610*, 1910, 2210* local time	*Weather only. After prior announcement on VHF Ch 16. Remote stations: Lizard, St. Mary's (Isles of Scilly), Trevose. WZ: Original reports to Hydrographer of the Navy, Radio Navigational Warnings, Ministry of Defence.		
RT (MF)		1880 kHz	On receipt, 0110*, 0710, 1310*, 1910 local time	*Weather only. Remote station: Lizard. WZ: Original reports to Hydrographer of the Navy, Radio Navigational Warnings, Ministry of Defence.		

	MRCC Holyhead-Coastguard				
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
3 - 183	VHF	Coastal navigational warnings (WZ) and weather	Ch. 23, 86	On receipt, 0150*, 0450*, 0750, 1050*, 1350*, 1650*, 1950, 2250* local time	*Weather only. After prior announcement on VHF Ch 16. Remote stations: Great Orme, South Stack. WZ: Original reports to Hydrographer of the Navy, Radio Navigational Warnings, Ministry of Defence.

	MRCC Humber-Coastguard				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Coastal navigational warnings (WZ) and weather	Ch. 23, 86	On receipt, 0150*, 0450*, 0750, 1050*, 1350*, 1650*, 1950, 2250* local time	*Weather only. After prior announcement on VHF Ch 16. Remote stations: Boulby, Cullercoats, Easington, Flamborough, Newton, Ravenscar. WZ: Original reports to Hydrographer of the Navy, Radio Navigational Warnings, Ministry of Defence.	
RT (MF)		1925 kHz	On receipt, 0150*, 0750, 1350*, 1950 local time	*Weather only. After prior announcement on VHF Ch 16. Remote stations: Flamborough. WZ: Original reports to Hydrographer of the Navy, Radio Navigational Warnings, Ministry of Defence.	

	MRCC Liverpool-Coastguard					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Coastal navigational warnings (WZ) and weather	Ch. 23, 84, 86	On request, 0130*, 0430*, 0730, 1030*, 1330*, 1630*, 1930, 2230* local time	*Weather only. After prior announcement on VHF Ch 16. Remote stations: Caldbeck, Langthwaite, Moel-y_parc, Snaefell. WZ: Original reports to Hydrographer of the Navy, Radio Navigational Warnings, Ministry of Defence.		

	MRCC Milford Haven-Coastguard						
	Туре	Additional Information					
	VHF	Coastal navigational warnings (WZ) and weather	Ch. 84, 86	On receipt, 0150*, 0450*, 0750, 1050*, 1350*, 1650*, 1950, 2250 local time	*Weather only. After prior announcement on VHF Ch 16. Remote stations: Blaenplwyf, Dinas Head, Monkstone Point, St. Ann's Head. WZ: Original reports to Hydrographer of the Navy, Radio Navigational Warnings, Ministry of Defence.		
184	Niton (GNI)						

3 - 184

84		Niton (GNI)					
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
		B1 Character: I Range: 270nm		0520, 1720			
NAVTI		B1 Character: T Range: 270nm	490 kHz	0310, 0710, 1110, 1510, 1910, 2310			
	NAVTEX	B1 Character: E Range: 270nm	518 kHz	0040, 0440, 0840, 1240, 1640, 2040			
		B1 Character: K Range: 270nm		0140, 0540, 0940, 1340, 1740, 2140			

	Northwood (GYA)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
Radio-Facsimile	Weather (North Atlantic)	2618.5 (2000-0600 UTC), 4610, 8040, 11085.5 (0600-2000 UTC)	Every 12m (Broadcast schedule at 0100, 1300 for North Atlantic)	WZ: Original reports to Hydrographer of the Navy, Radio Navigational Warnings, Ministry of Defence.	

	MRCC Portland-Coastguard					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Coastal navigational warnings (WZ) and weather	Ch. 84, 86	On receipt, 0130*, 0430*, 0730, 1030*, 1330*, 1630*, 1930, 2230* local time	*Weather only. After prior announcement on VHF Ch 16. Remote stations: Beer Head, Grove. WZ: Original reports to Hydrographer of the Navy, Radio Navigational Warnings, Ministry of Defence.		

3 - 185		Portpatrick (GPK)					
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
	NAVTEX	B1 Character: O Range: 270nm	490 kHz	0220, 0620, 1020, 1420, 1820, 2220			
		B1 Character: C Range: 270nm	518 kHz	0420, 0820, 2020			

	MRCC Shetland-Coastguard					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Coastal navigational warnings (WZ) and weather	Ch. 23, 84, 86	On receipt, 0110*, 0410*, 0710, 1010*, 1310*, 1610*, 1910, 2210* local time	*Weather only. After prior announcement on VHF Ch 16. Remote stations: Collafirth, Fitful Head, Lerwick, Saxa Vord, Wideford. WZ: Original reports to Hydrographer of the Navy, Radio Navigational Warnings, Ministry of Defence.		
MF (HF)		1770 kHz	On receipt, 0110*, 0710, 1310*, 1910 local time	*Weather only. After prior announcement on VHF Ch 16. Remote stations: Lerwick. WZ: Original reports to Hydrographer of the Navy, Radio Navigational Warnings, Ministry of Defence.		

Ī	MRCC Stornoway-Coastguard				
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
3 186	VHF	Coastal navigational warnings (WZ) and weather	Ch. 10, 23, 84, 86	On receipt, 0110*, 0410*, 0710, 1010*, 1310*, 1610*, 1910, 2210* local time	*Weather only. After prior announcement on VHF Ch 16. Remote stations: Arisaig, Barra, Butt of Lewis, Clettraval, Drumfearn, Forsnaval, Melvaig, Portnaguran, Rodel, Skriag. WZ: Original reports to Hydrographer of the Navy, Radio Navigational Warnings, Ministry of Defence.
	MF (HF)		1743 kHz	On receipt, 0110*, 0710, 1310*, 1910 local time	*Weather only. After prior announcement on VHF Ch 16. Remote station: Butt of Lewis. WZ: Original reports to Hydrographer of the Navy, Radio Navigational Warnings, Ministry of Defence.

3 - 186

	MRCC Solent-Coastguard					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Coastal navigational warnings (WZ) and weather	Ch. 23, 86	On receipt, 0130*, 0430*, 0730, 1030*, 1330*, 1630*, 1930, 2230* local time	*Weather only. After prior announcement on VHF Ch 16. Remote stations: Boniface Down, Needles, Newhaven. WZ: Original reports to Hydrographer of the Navy, Radio Navigational Warnings, Ministry of Defence.		

	MRCC Swansea-Coastguard				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Coastal navigational warnings (WZ) and weather	Ch. 23, 86	On receipt, 0150*, 0450*, 0750, 1050*, 1350*, 1650*, 1950, 2250 local time	*Weather only. After prior announcement on VHF Ch 16. Remote stations: Combe Martin, Hartland Point, Mumbles, St. Hilary, Severn Bridge. WZ: Original reports to Hydrographer of the Navy, Radio Navigational Warnings, Ministry of Defence.	

3 - 187

MRCC Thames-Coastguard						
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Coastal navigational warnings (WZ) and weather	Ch. 23, 84, 86	On receipt, 0110*, 0410*, 0710, 1010*, 1310*, 1610*, 1910, 2210* local time	*Weather only. After prior announcement on VHF Ch 16. Remote stations: Bawdsey, Bradwell, Shoeburyness, Walton on the Naze. WZ: Original reports to Hydrographer of the Navy, Radio Navigational Warnings, Ministry of Defence.		

	MRCC Yarmouth-Coastguard					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Coastal navigational warnings (WZ) and weather	Ch. 23, 86	On receipt, 0150*, 0450*, 0750, 1050*, 1650*, 1950, 2250* local time	*Weather only. After prior announcement on VHF Ch 16. Remote stations: Guy's Head, Langham, Lowestoft, Trimingham. WZ: Original reports to Hydrographer of the Navy, Radio Navigational Warnings, Ministry of Defence.		

METAREA I				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
METAREA	Weather	AOR-E	0930, 2130	

	NAVAREA I					
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
س	NAVAREA	Navigational warnings	AOR-E	0530, 1730		

 $\frac{1}{5}$ 300DP. Uruguay

	Atlantida Radio (CWC 43)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Navigational warnings and weather	Ch. 15	0533, 1333, 1933		

	Carmelo Prefectura Radio (CWC 22)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Navigational warnings and weather	Ch. 15	0303, 1503, 2133		

	Colonia Prefectura Radio (CWC-23)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	- Navigational warnings and weather	Ch. 15	0330 1330 2100		
RT (MF)		2722.1 kHz	0330, 1330, 2100		

	Fray Bentos Prefectura Radio (CWC 25)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Navigational warnings and weather	Ch. 15	0500, 1100, 1700, 2300		

	La Paloma Radio (CWC-30, CWS-27)					
	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
	VHF	Ch. 15				
	RT (MF)) Navigational warnings and weather	2722.1 kHz	0000, 0300, 1200, 1533, 2300		
3	RT (HF)		4146 kHz			
189	NAVTEV	B1 Character: A Range: 280nm	490 kHz	0000, 0400, 0800, 1200, 1600, 2000	in Spanish.	
	NAVTEX	B1 Character: F Range: 280nm	518 kHz	0050, 0450, 0850, 1250, 1650, 2050		

Montevideo Centro de Radio Prefectura (CWC-39)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
VHF	Navigational warnings and weather	Ch. 15	0833, 1603, 2203	

	Montevideo Trouville (CWC-39)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
RT (MF)	- Navigational warnings and weather	2722.1 kHz	0833, 1603, 2203			
RT (HF)		4146 kHz	0655, 1005, 2205			

Nueva Palmiraa Prefectura Radio (CWC-31)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
VHF	Navigational warnings and weather	Ch. 15	0000, 0900, 1500, 2100	

	Paysandu Prefectura Radio (CWC 32)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Navigational warnings and weather	Ch. 15	0300, 0900, 1500, 2100		

	Piriapolis Prefectura Radio (CWC 33)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Navigational warnings and weather	Ch. 15	0703, 1533, 2103		

	Puerto Sauce Prefectura Radio (CWC 27)					
3	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
190	VHF	Navigational warnings and weather	Ch. 15	0133, 1303, 1933		

	Punta Carretas (CWF)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
RT (MF)		2768.5 kHz				
RT (HF)	Navigational warnings and weather	4357.4, 6518.8, 8291.1, 13128.7, 17260.8, 22636.3 kHz	0003, 1403, 2103	in Spanish and English.		

	Punta del Este Prefectura Radio (CWC-34)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	- Navigational warnings and weather	Ch. 15	0133, 1503, 2133			
RT (MF)		2722.1 kHz				

	Rio Branco Prefectura Radio (CWC 36)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	- Navigational warnings and weather	Ch. 15	0933, 1703, 2333			
RT (MF)		2722.1 kHz	0955, 1705, 2555			

	Salto Prefectura Radio (CWC 37)				
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
VHF	Navigational warnings and weather	Ch. 15	0500, 1100, 1700, 2300		

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Times (UTC) Additional Information
0, 1600 local time in French, English and Bislama. Warnings on receipt after announcement on 4125 and 6215 kHz.

	Ben Thuy (XVB)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
DT (UE)	RT (HF) Weather	7906 kHz	Every even hour +50m	in Vietnamese and English.		
RT (HF)	weather	/ 900 KHZ	0050, 1250	in Vietnamese.		

	Ca Mau (XVA)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
RT (HF)	DT (IIF) Wasthar	7006 1-11-	Every odd hour +35m	in Vietnamese and English.		
	Weather	7906 kHz	1135, 2335	in Vietnamese.		

	Cam Ranh					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Weather	Ch. 16	1150, 2350 and every even hour +50m	in Vietnamese.		

	Can Tho (XVU)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF		Ch. 16	1120, 2320 and every even hour +20m	in Vietnamese.		
	Weather	7906 kHz	Every even hour +05m	in Vietnamese and English.		
RT (HF)		/ 900 KHZ	0205, 1405	in Vietnamese.		

Cua Ong (XVC)						
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Weather	Ch. 16	1105, 2305 and every even hour +05m	in Vietnamese.		

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192	

Da Nang (XVT)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
RT (HF)	Weather	7906, 8294 kHz	Every even hour +35m	35m in Vietnamese and English. in Vietnamese.	
	weather	7900, 8294 KHZ	0035, 1235		
NAVTEX	B1 Character: K Range: 400nm	518 kHz	0140*, 0540, 0940, 1340*, 1740, 2140	* Weather only.	

	Hai Phong (XVG)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
RT (HF)	Weather	7906, 8294 kHz	Every even hour +05m	in Vietnamese and English.		
	weatter	7900, 0294 NIIZ	Every even hour 405min Vietnamese and English.0005, 1205in Vietnamese.			

	Hai Phong (XVG)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
NAVTEX	B1 Character: W Range: 400nm	490 kHz	0340, 0740, 1140*, 1540, 1940, 2340*	In Vietnamese. * Weather only.		

	Ho Chi Minh Ville (XVS)					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
RT (HF)	Weather	7906, 8294 kHz	Every even hour +05m	in Vietnamese and English.		
	weather		0105, 1305	in Vietnamese.		
NAVTEX	B1 Character: X Range: 400nm	518 kHz	0350, 0750, 1150, 1550, 1950, 2350			

			Hon Gai (XV	Q)	
3 - 193	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information
	VHF		Ch. 16	1105, 2305 and every even hour +05m	in Vietnamese.
	Weather	7006 kHz	Every even hour +50m	in Vietnamese and English.	
	KI (III [*])	RT (HF)	7906 kHz	1050, 2250	in Vietnamese.

	Hue (XVD)						
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information			
VHF		Ch. 16	1105, 2305 and every even hour +05m	in Vietnamese.			
RT (HF)	Weather	7906 kHz	Every even hour +50m	in Vietnamese and English.			
KI (HF)			1050, 2250	in Vietnamese.			

	Kien Giang (XVK)						
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information			
VHF		Ch. 16	1135, 2335 and every even hour +35m	in Vietnamese.			
DT (UE)	Weather	7906 kHz	Every even hour +20m	in Vietnamese and English.			
RT (HF)			1020, 2220	in Vietnamese.			

	Mong Cai (XVM)					
Type Nature of Broadcast Frequency/ Channel Times (UTC) Additional Information						
DT (UE)	Weather	7906 kHz	Every odd hour +20m	in Vietnamese and English.		
RT (HF)	weather	7900 KHZ	0120, 1320	in Vietnamese.		

	NHA Trang (XVN)						
<u>س</u>	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
3 - 194	RT (HF)	Weather	7906 kHz	0005, 1205, every odd hour +05m & +50m	in Vietnamese.		

	Phan Rang						
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information			
VHF	Weather	Ch. 16	1135, 2335 and every even hour +35m	in Vietnamese.			
DT (LIE)		7906 kHz	Every even hour +20m	in Vietnamese and English.			
RT (HF)			0150, 1350	in Vietnamese.			

	Phan Thiet (XVP)						
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information			
VHF		Ch. 16	0120, 2320	in Vietnamese.			
DT (UE)	Weather 7906 kl		Every even hour +50m	in Vietnamese and English.			
RT (HF)		/ 900 KHZ	1105, 2305	in Vietnamese.			

	Phu Yen (XVY)						
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information			
VHF		Ch. 16	1105, 2305 and every even hour +05m	in Vietnamese.			
RT (HF)	Weather	7906 kHz	Every even hour +50m	in Vietnamese and English.			
		/ 900 KHZ	1105, 2305	in Vietnamese.			

	Quy Nhon (XVI)					
3 -	Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information	
195	VHF		Ch. 16	1120, 2320 and every even hour +20m	in Vietnamese.	
	RT (HF)	Weather	7906 kHz	Every even hour +35m	in Vietnamese and English.	
	КІ (ПГ)		/900 KHZ	1035, 2235	in Vietnamese.	

	Thanh HOA					
Туре	Nature of Broadcast	Frequency/ Channel	Times (UTC)	Additional Information		
VHF	Weather	Ch. 16	1135, 2335 and every even hour +35m	in Vietnamese.		

	Vung Tau (XVR)						
Type Nature of Broadcast Frequency/ Channel Times (UTC) Additional Infor							
DT (UE)	Weather	7906 kHz	Every even hour +20m	in Vietnamese and English.			
RT (HF)			0020, 1220	in Vietnamese.			