

FEDERAL AGENCY OF MARITIME AND RIVER TRANSPORT

**COMMUNICATIONS INSTRUCTIONS
FOR ARCTIC NAVIGATION
2012 - 2013
ON THE NORTHERN SEA ROUTE**

Moscow - 2012

I. GENERAL PROVISIONS

1. These Communications Instructions for the Arctic Navigation 2012 – 2013 on the Northern Sea Route (hereinafter referred to as the Instructions) are binding upon all vessels that navigate on the Northern Sea Route (hereinafter referred to as the NSR) and operate in conformity with the Regulations of the Maritime Mobile and Maritime Mobile Satellite Radio Services of the Russian Federation (RD 31.64.54-2001) as well as coastal communication centres and radio stations providing radio communication with vessels on the NSR.

2. General hydrometeorological information (including weather forecasts and warnings about hazardous hydrometeorological events) prepared by Arctic Administrations of Hydrometeorological Monitoring Services (Centres of hydrometeorology and monitoring of environment) passed on by radiocentres of Roshydromet (Federal Hydrometeorological and Environmental Monitoring Service) shall be rendered to the users (consumers) at a charge reimbursing costs for its preparation and relay by means of electric switched networks (article 4 of the Regulations on information services related to hydrometeorology and environment pollution monitoring approved by Resolution of the Government of the Russian Federation No. 1425 as of 15.11.1997).

3. Arctic radiocentres and coastal stations (excluding radiocentres of Roshydromet) shall provide hustle-free and chargeless transmitting of priority messages, unscheduled navigation notifications and gale warnings to addressees regardless of their departmental affiliation.

4. For the purpose of the fleet operations control the Northern Sea Route is divided into the regions of West and East:

- Region West stretches from the western entrances to the straits of Novaya Zemlya and Cape Zhelaniya to 125°E meridian, including the water area of the Francis Joseph's Land Archipelago and other islands, as well as the areas of the Yenisey to the port of Igarka, the Khatanga to the port of Khatanga and the Gulf of Ob to the line that connects capes Kamenniy and Trekhbugorniy;

- Region East stretches from 125°E meridian to the Bering Strait, including all islands and areas of the Kolyma to the port of Zelyoniy Mys (Green Cape).

5. Vessels navigating on the Northern Sea Route shall be equipped with GMDSS devices as described in the rules on equipment of vessels determined by the Classification.

6. In accordance with Articles 7.3.1, 7.3.5 of Section 7 Technical Facilities for Navigation and Communication, Requirements to the Design, Equipment and Supply of Vessels Navigating the Northern Sea Route (Instructions for through navigation of vessels on the Northern Sea Route, issued by Chief Directorate for Navigation and Oceanography at the Ministry of Defence of the Russian Federation, 1995) all vessels that operate on the NSR shall have onboard INMARSAT ship earth station and VHF radiotelephone stations to communicate with aircrafts, helicopters and vessels in convoy (use of portable radiotelephone stations is allowed).

River ships that navigate in convoy following after an ice-breaker or escorted by a vessel with INMARSAT ship earth station are allowed not to have INMARSAT ship earth station onboard during navigation of 2012 – 2013.

7. Besides DSC GMDSS watch, vessels of OAO FESCO (OAO Far East Shipping Company) shall use frequencies of 6306khz and 16787khz for ship-to-ship calls in DSC mode, the enhanced group calling for vessels of OAO FESCO is 027314000.

Vessels of OAO MSCO (Murmansk Shipping Company) and OAO GMK Norilsk Nickel on the Northern Sea Route in addition to DSC GMDSS watch for ship-to-ice-breaker calls in DSC mode shall carry out watch on frequencies 2177; 4208; 6312,5; 8415; 12577,5; 16805 khz and keep communications with ice-breakers in MF/HF band at frequency of 4149khz.

8. Information about coastal stations, ice-breakers and transmission schedules is given in the following annexes:

- Annex 1. List of Arctic coastal stations and ports that have satellite communications stations (SCS), automated telegraph, telex, e-mail;

- Annex 2. Coastal stations providing communications with other vessels on the Northern Sea Route;

- Annex 3. List of USB-stations (Port, Pier) located at the Arctic stations and maintaining radio-watch at frequency of 156.8MHz (channel 16);
- Annex 4. Schedule of coastal warning transmissions to the mariners;
- Annex 5. Information for communication with the pilot subdivisions on the rivers of Yenisey, Khatanga, Anabar, Kolyma;
- Annex 6. List of ice-breakers involved in Arctic navigation;
- Annex 7. Information about Gosmorspassluzhba (State Maritime Rescue Service) of Russia;
- Annex 8. Schedule for transmission of information about safety of navigation by means of INMARSAT SafetyNET.

9. FSUE Hydrographic Enterprise transmits information about safety of navigation (hereinafter referred to as ISN¹) through international service SafetyNET of INMARST for the regions of West and East of the Arctics in accordance with Annex 8.

II. PROCEDURES FOR ARRANGEMENT AND PROCESSING OF TRAFFIC CONTROL REPORTS

10. Information from vessels' hydrometeorological surveys shall be transmitted to the coastal stations within the following terms: 0000-0020, 0600-0620, 1200-1220, 1800-1820 UTC (art. 217 of the Regulations of the Maritime Mobile and Maritime Mobile Satellite Radio Services of the Russian Federation).

11. Masters of vessels operating on the Northern Sea Route shall regularly transmit relevant traffic control reports, reports on loading-unloading operations, vessels' routes, and information about arrivals and departures from ports as well as other practical data. All stated information shall be issued in the form of radio telegrams with a priority mark on a traffic control report (hereinafter referred to as TCR).

12. Masters of vessels departing from the western ports to the Arctics shall transfer TCR to Murmansk NM specifying amount of cargo onboard to each port of destination.

When crossing the Murmansk meridian upon departure to the Arctics the TCR on approach to straits or convoy meeting point shall be transmitted to the same addresses.

13. Masters of vessels after departure from the ports of Dudinka and Igarka shall transmit TCR to Murmansk NM on the amount of cargo onboard, port of destination, date and time of departure from the port.

14. Masters of vessels that depart from the Far East ports to the Arctics shall transmit TCR to Vladivostok NM with information on departure from the last port of loading specifying amount of cargo loaded at each port according to ports of destination, information on expected date when the vessel will pass Cape Dezhnev, and the reason for calling in case the vessel will call at the port of Provideniya.

15. Masters of vessels operating on the NSR, being loaded or unloaded in the port of the Arctics or inshore stations of Karataikha, Kara, Harasavey, New Port, Cherskiy as well as at other stations, including continental shore of the Pechora Sea to the east from 50° meridian to the island of Vaygach, shall prepare TCRs as of 0000 and 1200 Moscow time.

TCSs shall be addressed to the Marine Operations Headquarters of the corresponding Arctic region where the vessel is located at the moment of TCR dispatch.

16. Masters of vessels belonging to OAO LORP (Joint Stock Lena United River Shipping Company) after departure from a port of loading/unloading to the NSR and navigating coastal routes of the NSR to the rivers of Olenek, Anabar, Khatanga, Yana, Indigirka and Kolyma shall provide information on the time of departure from the port, points of destination and vessel's whereabouts to the Marine Operations Headquarters of the corresponding Arctic region and shall transmit TCR to Yakutsk ChOR^{**}.

¹ Information on safety of navigation includes navigational and meteorological warnings, meteorological forecasts and other emergency announcements pertaining to safety which are conventionally transferred from vessels or to vessels, between vessels and between coastal radio-stations or coastal earth stations. (ITU Radio Regulations)

^{**} ChOR – chief of the shipping company service (department)

Masters of sea and river vessels operating in the Kolyma River and remaining off the harbour from the offshore bar shall additionally address a copy of TCR to Zeleniy Mys PM.

17. Masters of vessels coming from western ports to eastern Arctic ports shall transmit TCR about loadings, ports of destination and estimated date when the vessel will pass by 125° meridian to the East to Vladivostok NM.

18. Masters of vessels coming from the East to the ports and stations of the Western Arctics shall submit an additional TCR to Murmansk NM when passing by 135° meridian.

19. Apart from the corresponding Marine Operations Headquarters, masters of vessels belonging to FSUE Hydrographical Enterprise shall submit TCR to the General Director of FSUE Hydrographic Enterprise, Saint Petersburg AGP, Hydrographic bases AGP (pursuant to subordination).

20. Masters of runner vessels shall prepare TCR as of 0000 and 1200 Moscow time and submit them to:

- Vladivostok NM if vessel navigates in the Eastern Arctic region in the areas of Yana – Indigirka and Kolyma;
- Arctic traffic control station at OAO LORP if vessel navigates in the areas of Lena – Tiksi, Tiksi – Yana and Lena – Olenek, and in the Anabar;
- Murmansk NM if vessel navigates in the Western Arctic region.

21. TCRs from vessels shall be:

- submitted to the ship station not later than 0030 and 1230 Moscow time correspondingly;
- addressed to: Murmansk NM, Vladivostok NM (depending on the region of navigation);
- delivered to the corresponding Marine Operations Headquarters not later than 0500, 1600.

22. Masters of ice-breakers shall prepare TCR as of 0000 and 1200 Moscow time and shall submit them to:

- Marine Operations Headquarters Murmansk NM, Vladivostok NM (pursuant to subordination);
- Moscow ASP;
- Vladivostok ChM (pursuant to subordination).

Upon request of the Northern Sea Route Administration (hereinafter referred to as NSRA) and Marine Operations Headquarters (hereinafter referred to as MOH) traffic control reports as an exceptional case shall be submitted in conformity with the procedures established by NSRA or MOH marking radio-telegram as Priority.

23. Only the main ice-breaker in the convoys shall submit TCR as of 0000 and 1200 to MOH and NSRA specifying the convoy arrangement. Terms for submission of TCR as well as submission addresses are similar to those in art.21.

24. Traffic control reports DISP/1 as of 1200 Moscow time shall be prepared and submitted from vessels belonging to marine shipping companies, including vessels and ice-breakers in convoys, only to their own shipping companies.

25. Marine Operations Headquarters shall submit traffic control reports DMA-1:

from the Western Arctic Headquarters to

- Moscow NSRA
- Vladivostok NM
- Saint Petersburg AGP
- Arkhangelsk ChM (if AO NSC vessels are located on the NSR)
- Murmansk MSKC
- Saint Petersburg AANII ANLC

from the Eastern Arctic Headquarters to

- Moscow NSRA
 - Saint Petersburg AANII ANLC
 - Murmansk NM
 - Vladivostok ChM, SKC
 - Nakhodka ChM
 - Kholmsk ChM
-

The Western Marine Operations Headquarters shall submit report DMA-1 to the Eastern Marine Operations Headquarters, not including vessels that take part in operations on the Yenisey River as well as hydrographic vessels that operate in the Western region.

26. Traffic control reports DMA-1 ArkMP shall be submitted to:

- Moscow NSRA
- Vladivostok NM
- Murmansk NM

27. Traffic control reports DM-2 from the Arctic marine ports shall be prepared on a daily basis, transmitted before 2400 Moscow time of the current day and submitted to the Main Computer Centre for the following addresses:

- from Amderma: Priority 2 offices MOSCOW MURMANSK (or Arkhangelsk depending to whom it may concern) ACS=
- from Tiksi: Priority 3 offices MOSCOW MURMANSK VLADIVOSTOK ACS=
- from Khatanga: Priority 2 offices MOSCOW MURMANSK ACS =
- from Pevek: Priority 2 offices MOSCOW VLADIVOSTOK ACS =
- from Provideniya: Priority 2 offices MOSCOW VLADIVOSTOK ACS=

III. PROCEDURES FOR ARRANGEMENT AND SUBMISSION OF NAVIGATIONAL AND HYDROGRAPHIC INFORMATION

28. FSUE Hydrographic Enterprise collects information on safety of navigation in marine geographic areas NAVAREA XX and XXI, including the areas of the NSR. Based on the information received navigational warnings NAVAREA XX, NAVAREA XXI and coastal warnings (PRIP) that are handed over to International Safety Net Service SafetyNET using INMARSAT service (Annex 8) are issued. PRIPs are issued for two areas: West and East, and referred to as PRIP West and PRIP East. NAVAREA and PRIP shall be submitted to:

PRIP West (NAVAREA XX)

- Head of the Department of Notices to Mariners at the Administration of Navigation and Hydrography of the Ministry of Defence of the Russian Federation (ANH RF MD);
- Head of the Northern Fleet Hydrographic Office;
- FSI Administration of Sea Port Murmansk – harbour master;
- FSI Administration of Sea Port Arkhangelsk – harbour master;
- Director of the Arkhangelsk Hydrographic Base;
- Director of the Igarka Hydrographic Base;
- Director of the Dikson Hydrographic Base;
- Director of the Khatanga Hydrographic Base.

PRIP East (NAVAREA XXI)

- Head of the Department of Notices to Mariners at the ANH RF MD;
- Head of the Pacific Fleet Hydrographic Office;
- Director of the Tiksi Hydrographic Base;
- Director of the Kolyma Hydrographic Base;
- Director of the Pevek Buoy and Hydrographic Brigade;
- Director of the Provideniya Hydrographic Base.

Vessels calling at the Arctic ports can receive copies of effective NAVAREA and PRIP at the hydrographic bases where available.

To continually provide vessels with the information on safety of navigation data pertaining to area between 113° - 125°E shall be transferred simultaneously for PRIP West and PRIP East.

29. As a rule one and same information related to any specific geographical area cannot be transmitted simultaneously to PRIP West and PRIP East but only one of them.

Information pertaining to both areas on the NSR as follows from its context is an exception.

30. Numbers assignment of PRIP West and PRIP East shall be performed beginning with No. 1

on 1st of January of each year. Regular monitoring of PRIP delivery and control over the sequence of numbers is provided onboard vessels. In case some PRIP are found missing, actions shall be taken to additionally receive a lacking PRIP.

31. Masters of vessels navigating on the NSR that have located a danger of navigation shall immediately transmit an unscheduled warning to:

- all vessels at sea;
- Saint Petersburg FSI HE (E-mail: hydep@hydrograph.spb.su Copy to ibm@hydrograph.spb.su);
- Moscow NSRA;
- Murmansk NM;
- Vladivostok NM.

(depending on the area of navigation where the vessel located a danger of navigation).

32. PRIP can be repeated upon requests from ship-owners.

IV. PROCEDURES FOR METEOROLOGICAL SUPPORT OF HELICOPTER FLIGHTS FROM ICE-BREAKERS ON THE NORTHERN SEA ROUTE

33. Helicopter flights from ice-breakers shall be provided by weather forecasts for the area of flights in conformity with the requirements in Section 9 Field manual for meteorological support of civil aviation (hereinafter referred to as FM NOTAM).

34. Weather forecasts for the areas of flights shall be prepared by airport Aviation Weather Reporting Stations (civil) (hereinafter referred to as AWRS) at radio meteorological centres of Administrations/Centres for Hydrometeorological and Environmental Monitoring (AHM/CHEM).

35. Requests to receive weather forecasts shall be submitted from ice-breakers by e-mails to AWRS.

A helicopter commander shall prepare a request and submit it to the vessel's radio-station at least 4 hours prior to the flights commence. The request shall contain flights commence and completion times, geographical references of the flight area, weather minimum of the helicopter's commander as well as weather conditions at the location of an ice-breaker.

Information exchange between AWRS and ice-breakers shall be carried out via radio centres and Arctic coastal stations in compliance with these Instructions.

36. Since request submission and until flights are complete observations and an hourly transmission of information about actual weather conditions to AWRS shall be provided onboard an ice-breaker. Weather observations shall be performed by the information exchange manager (from the helicopter crew) at 00 minutes of each hour as well as upon the request of the helicopter crew. Observations results shall be registered at the vessel's log book.

In between the hourly timeframes observations for a specific type of helicopter shall be carried out under criteria of Section 4 of FM NOTAM.

38. Data from hourly observations as well as gale warnings about dangerous weather events (conditions) shall be transmitted as a plain text to the helicopter as well as via the ice-breaker's radio-station to AWRS.

Radiotelegrams containing data on hourly weather conditions shall be transmitted with Avia priority category, gale warnings shall bear Gale priority category.

39. AWRS shall prepare weather forecasts in form of plain messages and shall transmit them to an ice-breaker 2 hours prior the flights commence.

Forecast validity period shall constitute 6 hours. If the flight lasts more than 3 hours, a new 6-hour forecast shall be prepared every 3 hours.

40. If any weather events (conditions) that have not been stipulated in an earlier issued forecast are expected to pose a threat to the helicopters' flights, AWRS shall prepare and transmit a gale warning.

V. RADIOPHONE AND RADIOTELEGRAPH COMMUNICATIONS

BETWEEN VESSELS, AIRCRAFTS AND COASTAL STATIONS

41. Depending on the conditions for passing of radio-waves transport vessels and ice-breakers that navigate on the NSR can liaise with the radiocentre of the respective shipping company or can be serviced by FSUE Main Communications and Satellite Systems Centre (hereinafter referred to as the Service Radiocentre) which will be involved in communication exchange pursuant to the terms specified in the contract awarded between the Service Radiocentre and the ship-owner.

42. To provide safety of navigation a ship-owner is obliged to regularly carry out monitoring over its fleet movements.

For purpose of monitoring vessels on the NSR shall transmit a control position report to the ship-owner twice during 24 hours. The master of the vessel shall be liable for transmission of the control report.

For all vessels at sea, including vessel on the NSR, two time periods for transmission of control reports shall be established, namely from 1200 until 1800 and from 2200 until 0400 Moscow time.

In exceptional circumstances control reports are allowed to be transmitted 1 hour earlier than the established terms.

Non-receipt of a control report within the established terms shall be considered as an emergency event.

A control report shall be transmitted in the form stipulated by the ship-owner. Date, time, geographic references and Emergency mark in the address line are binding.

Control reports obtained for further transmission via radio channels of the Ministry of Communications and Mass Media of the Russian Federation shall be marked Priority and contain address stipulated in accordance with the effective rules of the Ministry of Communications and Mass Media of the Russian Federation.

Should the direct transmission of the control report to the service radiocentre fail, the radio-operator of the vessel's station regardless of his duty time is obliged to transmit to a ship-owner a control report containing location references as of 1200 or 2200 (depending on the time of transmission) using alternative means of communication.

43. Transport vessels as a part of a convoy can use their radio-transmitters in high frequency mode only by authority of the main ice-breaker. Such decisions shall be agreed using inter-convoy communications system in VHF mode.

44. The inter-convoy radio-communications shall be carried out in the Arctics in VHF mode only.

45. Vessels moored at the roadsteads of sea ports shall have their VHF radio-stations turned on for listening watch at calling frequency of 156.8MHz (channel 16).

46. Calls to coast radio-stations can be performed at frequencies stipulated in Annex 2 to these Instructions.

47.1 Service radiotelephone communications between vessels, ice-breakers, ice reconnaissance aircrafts and coastal radio-stations shall be carried out only upon service necessity and shall be exact and brief.

47.2 Radiotelephone conversations are allowed to officials stated in art.60 of these Instructions and in Annexes 1 and 2 to the List of codes of officials to Order No.41 as of 07 June, 1994, issued by the Department of Marine Transport.

47.3 Vessels that independently follow through an ice channel in the Yenisey Bay on the Yenisey River shall transmit to the ice-breakers operating in this area information on the condition of the ice channel specifying areas of defect*.

47.4 Reading of notices from ice-breakers and liaison with them shall be performed at 0900 and 1800 Moscow time at the frequency of 4149khz in telephone mode.

48. Under radiotelephone communications vessels shall use their names as call signs or international call letters and shall work in this case at frequencies allowed for radiotelephony.

49. Crews of aircrafts under radiotelephone communications shall use side numbers of aircrafts

* Defects of the channel shall be considered as visible changes of the channel's edge structure due to actions of other vessels or facilities.

(helicopters) as call signs. Under aural radiotelegraphy they shall apply five-letter call letters assigned to each aircraft.

Coastal radio-stations shall use call signs stated in the permits issued by FSUE General Radio Frequency Centre (FSUE GRFC) under radio telephone communications.

50. If vessels and coastal radio-stations possess USB radio-stations (Annex 3) radiotelephone communications is preferred to be used there.

The following frequencies shall be applied for VHF radio-stations on the Northern Sea Route:

- 156.80MHz – international call and emergency frequency;

(channel 16)

- 156.30MHz – operating frequency for calls between vessels;

(channel 6)

It is prohibited to use frequency of 137.5MHz within a 50-mile radius of Amderma, Dikson, Tiksi, Pevek and Schmidt Cape.

51. Radio communications between aircrafts and marine vessels shall be carried out:

- beyond line-of-sight range within short-wave band given that relevant equipment is available.

Moreover, marine vessels shall be called using frequency pursuant to prior arrangement (marine fleet vessels work at frequencies assigned to them).

Aircrafts without medium frequency radio-stations beyond line-of-sight range shall carry out radio communications in HF range on frequencies assigned to marine fleet vessels' stations.

In addition, crews of aircrafts are allowed to carry out communications in medium-wave band with the Arctic coastal radio-stations on frequencies specified in Annex 2 to these Instructions.

52. Official information to be transmitted through departmental communication channels as well as private and official telegrams to be further transmitted via the channels of the Ministry of Communications of the Russian Federation shall be prepared and handled in conformity with the requirements stipulated by the Regulations of the Maritime Mobile and Maritime Mobile Satellite Radio Services of the Russian Federation (RD 31.64.54-2001).

53. Information related to support of flights and flight operations of aircrafts from the decks of marine vessels as well as information about emergency situations, damages to aircrafts onboard a marine vessel, restrictions and prohibitions of flights, preliminary flight programmes, touch-downs and take-offs (start and finish of flights), violations of flight procedures and rules shall be transmitted by vessels through any radio-centres marking such radiotelegrams as Priority.

Airports shall transmit stated radiotelegrams and deliver them pursuant to DC category.

Marine vessels shall transmit radiotelegrams with an Accident mark in case they receive messages and mayday calls or distress signals from aircrafts as well as about aircrafts that lost communication and failed to arrive onboard a marine vessel or any other aircraft emergency situations.

Airports shall transmit stated radiotelegrams and deliver them pursuant to SS category.

54. When entering 20-mile observation area of radio-radar departments (hereinafter referred to as RRD) of the FSB Border Service of Russia (Table 1) vessels shall transmit following information to the RRD:

- name, side number (if available), flag, port of registration;

- route, masters surname, crew size;

- propulsion plant type, nature of goods.

RRD shall specify to vessels route environment.

Radiotelephone exchange with RRD shall be carried out in accordance with the rules identified within the Maritime Mobile Satellite Radio Service. RRD shall be called at VHF channel 16 with further information exchange at the operating channels subject to agreement.

Table 1.

Item No.	RRD References	RRD Call Signal	RRD Working Period
1	70°45'N 057°30'E	Lebed – Menshikovo	24 hours
2	70°27'N 059°05'E	Lebed – Vaygach	24 hours

3	69°45'N 061°40'E	Lebed – Amderma	24 hours
4	71°07'N 066°45'E	Lebed – Harasavey	24 hours
5	71°15'N 072°04'E	Lebed – Sabetta	24 hours
6	68°27'N 073°35'E	Lebed – Kamenniy	24 hours
7	73°30'N 080°30'E	Lebed – Dikson	24 hours
8	77°43'N 104°14'E	Lebed – Tcheluskin	24 hours

VI. PRACTICAL ARRANGEMENTS OF COMMUNICATIONS

55. During the Arctic navigation the Marine Operations Headquarters shall carry out management of radio coverage with vessels, aircrafts, different organisations and officials.

56. In case radio communication with one of the radio-stations on the NSR fails, alternative channels of radio communication shall be used.

57. Directors of hydrographic bases within their responsibility shall monitor work of all maintained radio-navigational equipment and shall ensure its correct working conditions (in accordance with the RRD Rules and Procedures).

Director of hydrographic base shall immediately report about all violations of the working conditions of the maintained RRD to FSUE Hydrographic Enterprise for them to issue PRIP.

58. Main Radio Meteorological Centre (MRMC) shall submit all official telegrams received from the Arctic coastal stations to the Main Communications and Satellite Systems Centre (hereinafter referred to as FSUE MCSSC).

59. Monitoring over timely delivery of operative and control information shall be imposed on Service Radiocentres and NSRA.

60. The following officials using their code names are allowed to use radiotelegraphy as well as radiotelephony to keep communications with vessels during the Arctic navigation:

Head of the Northern Sea Route Administration	- ASP
Deputy Head of NSRA	- ASZP
Chief State Inspector of NSRA	- ASIP
Head of the State Marine Rescue Coordination Centre	- GKC
Head of the Rescue Coordination Centre	- SKC
Head of the Ice Fleet Service	- ChLFM
Head of the Marine Operations Headquarters	- NM
Deputy Head of the Marine Operations Headquarters	- ZNM
Director of the Operational Research Team at the Marine Operations Headquarters	- ANGO
Deputy Director of the Operational Research Team at the Marine Operations Headquarters	- ZANGO
Head of the Department of Arctic supply at the Procurement Service	- AOS
Head of the Automated Data Transfer Service of Arctic Hydrometeorological Monitoring Service	- GIMET
General Director of FSUE Hydrographic Enterprise	- AGP
Deputy General Director of FSUE Hydrographic Enterprise	- AGZP
Deputy General Director of FSUE Hydrographic Enterprise, Head of the Navigational Safety Service	- AGIP
Director of hydrographic base	- AGB
Chief Engineer of hydrographic base	- AGIB
Mission (unit, crew) Leader at FSUE Hydrographic Enterprise	- AE
Head of Polar Station	- APS
Commander of ice reconnaissance aircraft	- KK
Hydrologist of ice reconnaissance aircraft	- AGK

Head of Department (centre) of the Civil Aviation Department of Operation of Radio Equipment and Communications (ERTOS)	- UGA
Head of ERTOS Base at an Aviation Enterprise	- UGE
Head of Ice Information Centre at the Arctic and Antarctic Research Institute	- AANII - ANLC
Deputy General Director of FSUE Atomflot on Fleet Operations	- ChEZM
Director of Navigational Safety Department at OAO MSCO	- ChZMS

61. Ship-owners are obliged to provide all vessels departing for the Arctics with these Communication Instructions.

The Technical Administration at the Federal Service for Hydrometeorology and Environmental Monitoring, the Ministry of Natural Resources and Ecology of the Russian Federation and the Federal Air Transport Agency at the Ministry of Transportation of Russia shall provide their corresponding Arctic communications departments involved in navigational support with these Communications Instructions.

62. If vessels navigate beyond INMARSAT coverage area (indicatively, northward 75°N parallel) masters of vessels shall inform the Marine Operations Headquarters of the relevant Arctic region about estimated references for crossing 75°N parallel from south to north and from north to south.

63. In case vessels navigate northward of 75°N parallel the Marine Operations Headquarters shall take additional actions to provide vessels with radio communication (assign agents, support vessels (ice-breakers), develop communication charts to support high-latitude voyages and navigation to the North Pole using coastal radio-stations and vessels (ice-breakers) etc.). Information about assigned vessels – agents of the Marine Operations Headquarters shall be submitted to Marine Rescue Coordination Centres / Marine Rescue Coordination Subcentres pursuant to the area of responsibility.

64. The State Marine Rescue Coordination Centre shall exchange correspondence only with Marine Rescue Coordination Centres / Marine Rescue Coordination Subcentres and FSUE Main Communications and Satellite Systems Centre.

Deputy Director of Rosmorrechflot
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Yu.A. Kostin

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Approved by:
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E.A. Voitovskiy

Approved by:
Head of Department for Environmental
Monitoring, Polar and Marine Works at
Roshydromet



Z.A. Martyschenko

LIST
of Arctic Coastal Stations and Ports with Satellite Communication Stations (SCS),
Automated Telegraph (AT), Telex, E-mail

Name	Identification Number	AT No. and Auto-response, Telex and Fax Nos., E-mail
Arkhangelsk		AT: 242235 - OSTRVRU telex: 242111 MRF RU E-mail: shrsm@ansc.ru fax: (+7-8182)65-53-09
Amderma		Harbour Master: E-mail: amp-amdcma@mail.ru <u>Port Control</u> : tel.: (+7 42722) 2-25-25
Anadyr (Harbour Master)		E-mail: seaadm@chukotnet.ru
Dudinka (Harbour Master)		<u>Harbour Master</u> : tel.: (39191) 5-72-10; fax:(39191)5-62-12 E-mail: dudinkasvf09@rambler.ru
Dikson		288856 PGD RU AT 288856 PGD RU, Tel. Shift Supervisor In Charge: (39152) 2-40-99, fax of Dikson Branch of SE Arkhangelsk Meteorology and Environmental Monitoring centre with local functions: (39152) 2-49-53, E-mail: DIKSON@METEO.RU
Igarka (Hydrographic base) Harbour Master		tel./fax: General Dept. (39172)2-11-95; E-mail: iaarkahvdro@mail.ru <u>Harbour Master</u> : tel./fax: (39172) 2-13-16 E-mail: nord_port@mail.ru
Murmansk		<u>Marine Operations Headquarters</u> : Tel.: (7-8152) 553-040; (7-8152) 553-041 fax:(7-8152) 553-441; E-mail: shmo@rosatomflot.ru deynekasp@rosatomflot.ru
Tiksi (OAO ArkMP) Harbour Master	INMARSAT C 492500210	Fax: (7-41167) 52155 E-Mail: telegraft@arsco.sakha.ru <u>Harbour Master</u> : Fax: (41167) 5-25-65; Tel.: (41167)5-30-65 E-mail: ampv-tiksi@mail.ru
Tiksi RMC		135618 «Pogoda»
Tiksi (Arctic Control Section at OAO LORP)	INMARSAT C 492509089	E-mail: tiksi2@tiksi.sakha.ru Fax: (7-41167) 52404 Tel.: (7-41167) 52908 Control Officer (7-41167)52341
Khatanga		
Vladivostok (OAO FESCO)		<u>Marine Operations Headquarters</u> : Tel.: (7-4232) 52-14-09; fax: (7-4232) 52-14-15 E-mail: 80403@80.fesco.ru

Nakhodka (OAO PMP)		213846 «Tanker»
Yakutsk (OAO LORP)	INMARSAT C 492500195	135168 MAIAK.RU E-Mail: telecom@lorp.ru Fax: (7-4112) 341034 switchboard «Reka» Tel.: (7-4112) 42-02-63; Tel.: (7-4112) 42-23-00 Control Officer on Shift (7-4112) 42-59-67; (7-4112) 42-47-30

reconnaissance

1. FSUE Main Communications and Satellite Systems Centre**Radiostation Duty Officer (ShNRCM):**

Telephone: +7(495)626-90-31, +7(495)503-43-57

Fax: +7(495)626-94-43

E-mail: uat@cssc.ru

ATATELEX: 114710 SUDNO RU; 412659 RCSC RU

Call Sign ID	Working Mode	Frequency of response and transmission (khz)	Listening Frequency (khz)	Working Period	Work Procedures and Content of Transmission
1	2	3	4	5	6
Moscow - Radio	J3E	8731.0 13077.0 17257.0 22714.0	8207.0 12230.0 16375.0 22018.0	08.00 – 20.00 08.00 – 20.00 HX* HX	Out of stated working period channels work upon requests from vessels
3701 UAT	F1B	6327.5 8431.5 12599.5 12627.5 16813.0 16881.0	6281.5 8391.5 12497.5 12525.5 16689.5 16763.0	HX H24 H24 HX HX HX	Working channels are stated TFC-LIST every odd hour MSK
492500250 TAKE 492500250 TAKE 730**	INM-C LES-17 LES-04			H24	For further delivery to FAX, E-mail, AR/Telex, telegraph and mail addresses

Notes: Schedules of FSUE Main Communications and Satellite Systems Centre as of 01.05.2012.

*(HX) – time to be established by mutual agreement.

**(730) – short code for work via coastal earth stations Eik, Nudol.

2. Coastal Stations on the NSR

Coastal Station Name	Call Signal Emission Type	Working Frequencies of Coastal Station (khz)*	Working Frequencies of Vessels Station (khz)	Time and Frequency for Observation over Calls (khz)	Comments
Anderma	RSV-6			H24 2182	Radiotelephone Observation only
Dikson	UCI			H24 2182	Radiotelephone Observation only
Dudinka	RYVB	425/428	2310	0500 – 1300	
Igarka	RGZZ		2310 in radiotelephone mode	0400 – 1300	Radiotelephone Observation only
Khatanga	RGS	441	2310 in radiotelephone mode	0300 – 1500	
	Khatanga-radio J3E	2310		0300 – 1500	
Tiksi (OAO LORP)	Tiksi-2 J3E	4351	4015	H24	
Yakutsk (OAO LORP)	Yakutsk J3E	4375	4255	H24	
	Yakutsk J3E	6370	6225	H24	
	Yakutsk J3E	8719	8195	H24	
Nizhneyansk FSE Lena State Basin Administration of Waterways and Shipping	Nizhneyansk-1 J3E	4235	4180	0100 – 1000	
Yakutsk FSE Lena State Basin Administration of Waterways and Shipping	Zhatay-1 J3E	6510	6209	H24	
	Zhatay-1 J3E	8707	8158	H24	

Notes:

1. Coastal bases shall communicate with vessels pursuant to a schedule according to the contractual relations with shipowners.

2. Radio watch at mixed (river-sea-going) vessels belonging to OAO LORP is set at frequency of 6230khz (J3E) for one radio operator during following terms: 0200-0500, 0630-0930, 1200-1400 (Moscow time).

Ice-breakers Captain Babichev and Captain Borodkin keep H24 watch at the stated

frequencies.

3. Arkhangelsk keeps 24-hour watch: in radiotelephone mode at frequency 2182khz, call sign Arkhangelsk-radio-RCC.

4. Radio station Zhatay-1 transmits general messages until 0700 on behalf of the Basin Authority at the State Department at Inland Water Transport (BOGU), on behalf of the North-East Administration of State Marine and River Inspection at the Federal Transport Inspection (GOSMORRECHNADZOR) and on behalf of the Yakutsk Harbour Master.

5. Radio station Zhatay-1 receives official correspondence to BOGU, GOSMORRECHNADZOR and the Yakutsk Harbour Master 24 hours.

LIST
of USB-stations (Port, Pier) located in the Arctic stations and maintaining radio-watch at
frequency of 156.8 MHz (channel 16)

Station Name	Radio Station Location	Call Sign	Working Period and Channels
Amderma	Harbour Master	Amderma Harbour Master	During navigation: 0800 – 2000 daily VHF channel 16; Working 69.72
	Sea Port Operator	Amderma-Port	During navigation: H24 daily VHF channel 16; Working 6.69
i.Beliy	MG-2 after Popov	Ostrov Beliy-88	Upon agreement with approaching supply vessels on channel 9
i.Vaygach Bolvenskiy Cape	MG-2 after E.K. Fedorov	Vorobey	Upon agreement with approaching supply vessels on channels 6, 13, 14
i. Novaya Zemlya	MG-2 Malye Karmakuly	Fortuna	Upon agreement with approaching supply vessels on channels 6, 9, 12
Dikson	OGMS Dikson (Integrated Hydrometeorological Station)	Dikson-radio	Channel 16 0900 – 1800 local time
	Hydrographic base	Dikson-radio-23	0900 – 1800 local time
	Sea Port	Dikson-radio-1	No call via hydrographic base is available
	Sea Port	Portnadzor	
i.Medvezhiy	Control point GLONASS/GPS	Medvezhiy-radio	H24 channel 16
i.Wiese	MG-2 Wiese	Wiese-radio-2	Channel 16
Dudinka	Port Commission	Portnadzor	H24 channel 16 working 11
	Port Operational Manager	More-Port	H24 channel 16 working 14
	Customs Officers	Zastava	H24 channel 16 working 13

Igarka	Hydrographic Base Radio Office	Igarka-radio-23	Channel 16 0400 – 1300, except 0800 – 0900 Saturday, Sunday 0400 – 0800
	Port Commission	Portnadzor	H24 channel 16 working 14
	Sea Port	Pogruzka (Cargo Operations)	H24 channel 16 working 12
Lipatnikovo	Water Terminal	Lipatnikovo-radio-23	H24 channel 16 (temporarily out of order)
Karaul	Water Terminal	Karaul-radio-23	H24 channel 16
Tcheluskin Cape	OGMS after E.K. Fedorov	Tcheluskin-88	Channels 12, 16
Khatanga	Radio Centre	Khatanga-radio-1	H24 during navigation 15.06-1.10 Channel 16
	Port Operational Manager	Khatanga-radio-2	-<<>- Channel 14
	Harbour vessels station	Khatanga-radio-6	-<<>- 0800-2000 Channel 14
	Harbour Master	Khatanga-radio-4	-<<>-
	Hydrographic Base	Khatanga-radio-23	-<<>- As agreed with harbour vessels station
Murmansk	TsPR (Central Port Radio Station)	Murmansk-radio-1	H24 Channels 3, 16, 26, 27
Sopochnaya Karga	MG-2 Sopochnaya Karga	Sopochnaya Karga-88	Channels 9, 16
i.Heiss	OGMS after Krenkel	Heiss-88	Upon agreement with approaching supply vessels on channel 64
Nizhneyansk	Yana Region of Seaways and Shipping at FSE Lena State Basin Administration of Waterways and Shipping	Nizhneyansk-1	H24 channel 16 From 15.07.2012 until completion of the Arctic navigation
Noviy Port	substation	Noviy Port-88	-<<>- Channel 9
Tiksi	Harbour Master State Port Control Inspectorate	Tiksi AMPV	Channel 9 During navigation H24

			After navigation 0200 – 1100 MSK
Tiksi (OAO ArkSCO)	Fleet Operations Department	Tiksi-radio-3	0300 – 1200 1.07- 1.11 Channel 9
Tiksi (OAO LORP)	Manager of Arctic Transportations and Minor Rivers Department	Tiksi	H24 Channel 14
Terpyay-Tumsa	Substation	Terpyay-Tumsa-88	-«»-
Pevek	Port Commission	Pevek-radio-5	H24
	Sea Port	Pevek-radio-2	H24
Provideniya	Port Operational Manager	Provideniya-radio-2	H24 channel 14
	Port Commission	Provideniya-radio-5	H24 channel 9
	Harbour vessels station	Provideniya-radio-6	0800 – 1700 local Channel 67
	Oil Base	Provideniya-radio-13	0800 – 1700 local Channel 29
	Hydrographic Base	Provideniya-radio-23	0800 – 1700 local To be agreed
Anadyr	Port Operational Manager	Anadyr-radio-2	H24 channel 9 15.06-15.11
	Port Commission Inspectorate, Harbour Master	Anadyr-radio-5	H24 channel 14 15.06-15.11
Beringovskiy	Port Operational Manager	Beringovskiy-radio-2	H24 During navigation channel 9
	Port Commission Inspectorate	Beringovskiy-radio-5	H24 channel 9
Schmidt Cape	Radio Center	Mys Schmidta-88	H24
	Captain-instructor	Neptun	On call via r/centre

Notes:

1. Due to the non-availability of equipment to work at the frequency of 156.8MHz at some particular polar stations, communications between vessels and these stations shall be carried out at medium frequencies upon the request via radio meteorocentres and radiocentres. Polar stations Kotelniy, Kigilyakh and Sannikov communicate with passing vessels at 4020khz HF.
2. Polar stations of SE Arkhangelsk Meteorology and Environmental Monitoring centre with local functions that are not stated in this Annex have got radiostations Pier (Prichal), requests for opening of the watch at which shall be transferred via SE Arkhangelsk Meteorology and Environmental Monitoring centre with local functions.
3. Obligatory Rules of the Port of Murmansk Maritime Administration (art. 4.12 Use of radio and wire communication means) shall be applied in the water area of the Murmansk Port.

SCHEDULE
of coastal warnings (PRIP) transmissions to the mariners

Name of Radio Station	Call Signal Emission Type	Frequency (khz)	Transmission Times (UTC)	Servicing Area	Content 3a Transmissions	PRIPs to be forwarded and delivered to
Murmansk NAVTEX	Transmitter identifier – K; F1B	518	0140 0540 0940 1340 1740 2140	Barents Sea (except for south-east region)	Meteo PRIP SAR	
Vladivostok (OAO FESCO)*	UFL F1B	According to agreement	According to agreement	Sea of Japan, Okhotsk Sea, coastal waters of Russia from the Korean Peninsular up to and including Chukotka.	Meteo PRIP Vladivostok PRIP Petropavlovsk-Kamchatskiy NAVAREA 13 Navip 10-14	Shall be sent to organisations and shipping companies upon their requests via agreed means of communication
Tiksi NAVTEX Period of work from 01 July until 30 October	Transmitter identifier – Q; F1B	518	0240 0640 1040 1440 1840 2240	Laptev Sea	Meteo PRIP	

* Stops working in 2013.

INFORMATION
for communication with pilot subdivisions
on the rivers of Yenisey, Khatanga, Anabar, Kolyma

Item No.	Whereabouts of pilot ship, pilot watch	Subordinacy of pilot watch	Where vessels shall apply for pilots to		Radiotelephone, e-mail, call signal*	Call sign, VHF channel of radio station
			Approaching from sea	Departing from port		
1	2	3	4	5	6	7
<u>Harbour Pilot Service on the Yenisey River</u>						
1	Mouth of the Yenisey, Oshmarino Cape 71°46'N 82°57'E	FSUE Hydrographical Enterprise	1. Saint Petersburg 2. Dudinka		H24 flot@hydrograph.spb.su H24 daps@bk.ru	
2	At Dudinka port			Dudinka Pilot watch	H24 daps@bk.ru Tel. (39191) 5-66-69	
3	At Igarka port			Dudinka Pilot watch	H24 daps@bk.ru Tel. (39191) 5-66-69	
<u>Harbour Pilot Service on the Rivers of Khatanga and Anabar</u>						
4	Khatanga Bay Entrance buoy (10.5 miles NE from c.Knyazevka) AGS Eridan	-“-	Khatanga, Director of hydrographic base			Eridan Channel 16
5	At Khatanga port	-“-		Khatanga, Director of hydrographic base		Eridan Channel 9
<u>Harbour Pilot Service on the Kolyma River</u>						
6	Bar on the Kolyma (2.5 miles N from c.Medvezhiy)	-“-	Kolyma hydrographic base, Director of AGS Iney KM			Iney Channel 16
7	Set. Zeleniy Mys	-“-		Kolyma hydrographic base, Director	H24	Iney Channel 9

Notes:

a) Master of a vessel coming to the Yenisey River from the sea shall submit a pilot request to addresses stated in column 4 at least 48 and 24 (second time) hours prior to approach of the pilot meeting venue with a subsequent transmission of an update 6 hours prior to the meeting by transmitting a message only to a pilot vessel specified in column 2. When departing from a port a pilot request shall be transmitted through VHF radio station 24 hours prior to the departure followed by a confirmation 6 and 2 hours ahead of the departure.

b) Master of a vessel approaching the Khatanga River from the sea shall request for pilotage to addresses stated in column 4 at least 48 and 24 (second time) hours prior to approach of the pilot meeting venue followed by an update 4 hours prior to the meeting. When departing from a port a pilot request shall be submitted 4 hours prior to the departure with a subsequent confirmation 2 hours ahead.

c) Master of a vessel approaching the Anabar River from the sea is recommended to submit a telegram request to the Khatanga Hydrographic Base about the whereabouts of a pilot vessel.

d) Master of a vessel approaching the bar on the Kolyma River from the sea shall request for pilotage to the address stated in column 4 at least 24 hours before coming to the pilot meeting venue with a subsequent update 4 hours ahead by transmitting a message to addresses specified in column 2 and 4. In case the passage from the last port of call to the bar on the Kolyma River takes less than 24 hours from departure, the master of a vessel shall submit a request at least 1 hour after the departure from the port and shall update the time of approach 4 hours ahead. When departing from the port of Zeleniy Mys and other stations on the Kolyma River the master of a vessel shall submit a pilot request 4 hours prior to the departure of a vessel followed by a confirmation 1 hour ahead.

LIST
of ice-breakers involved in Arctic navigation

Item No.	Ice-breaker Name	Radiotelegraph Sign	Numbers of Vessel Earth Stations INMARSAT	DSC Code	Shipping Company
1.	Ice-breaker Admiral Makarov	UGSN	Inm-C 427320862 MINI-M 762137613- TEL 762137614-TEL 762137615-FAX FLEET 77 764626488-TEL 764626489-TEL	273148110	OAO FESCO
2.	NS Vaygach	UBNY	Inm-F77 764715293- 764715295-VO1CE 764715296-FAX	273133100	FSUE Atomflot
3.	Ice-breaker Captain Dranitsyn	UCJP	Inm-F77 761137871- 761137873-VOICE 761137874-FAX	273138300	FSUE Rosmorport
4.	Ice-breaker Captain Nikolaev	UCJS	Inm Mini-M 764025077- 764025078-VO1CE 764025079-FAX	273131400	FSUE Rosmorport
5.	NS Rossiya	UCIU	Inm-F77 761136033 761136035-VOICE 761136036-FAX	273133400	FSUE Atomflot
6.	NS Taimyr	UEMM	Inm-F77 761142068- 761142070-VOICE 761142071-FAX	273135100	FSUE Atomflot
7.	NS Yamal	UCJT	Inm-F77 761136943- 76II36945-VOICE 761136946-FAX	273132400	
8.	Ice-breaker Krasin	UIFY	Inm-C 427321058 Inm-B 327303038- TEL 327303039-TEL 327303040-FAX 327303041-TLX 327303042-data FLEET77 764596070- TEL 764596071- TEL	273143900	OAO FESCO
9.	NS 50 Let Pobedy	UGYU	Inm F77 764660542 Voice 4.8 764660543 Voice 4.8 761120938 Voice 4.8 761120939 Fax 9.6 Inm-C 427351996	273316240	FSUE Atomflot

**Information
about Subdivisions of Gosmorspassluzhba of Russia
(Russian State Maritime Rescue Service)**

Subdivision	Telephone	Fax	Inmarsat	E-mail	Telex
State Marine Rescue Coordination Centre at Gosmorspassluzhba of Russia (Moscow)	(7-495) 626-10-52 (7-495) 624-18-53	(7-495) 626-13-46* (7-495) 623-74-76	BGAN 772290024	od_smrcc@morflot.ru	
Marine Rescue Coordination Centre Murmansk	(7-8152) 42-83-07	(7-8152) 42-32-56	Inmarsat Mini-M	rcc@mapm.ru	
Marine Rescue Coordination Centre Vladivostok	(7-4232) 22-77-82 (7-4232) 52-11-63 (7-4232) 49-55-22	(7-4232) 49-58-95	Inmarsat Mini-M 761320633 Inmarsat-C 492500379	vldvmrcc@vld.pma.ru	213115 MRF RU
Marine Rescue Coordination Subcentre Arkhangelsk	(7-8182) 63-71-00	(7-8182) 20-89-21	Inmarsat-C 492509110	rcc@mapa.ru	
Marine Rescue Coordination Subcentre Tiksi	(7-41167) 530-65	(7-41167) 523-90	Inmarsat-C 427351446	mssp-tiksi@mail.ru	

SCHEDULE

for transmission of Information about Safety of Navigation by means of Inmarsat International Safety Net System (INMARSAT SafetyNET)

Geographical region for information transmission	Type of Information*	Transfer Period, Schedule of Transmissions (UIT)	CES Inmarsat, Ocean Region	Region Coordinator
<p>PRIP WEST: from the western entrances to the straits of Novaya Zemlya, including the Yugorskiy Strait, further along the coastline to Cape Zhelaniya, from Cape Zhelaniya along the meridian to 83°00'N parallel, including, including water area of the Francis Joseph's Land Archipelago, further along 83°00'N parallel to 125°00'E meridian, then along 125°00'E meridian to the coastline of the Russian Federation, including areas of the Yenisey to the port of Igarka, the Khatanga to the port of Khatanga and the Gulf of Ob to the line that connects capes Kamenniy and Trekhbugorniy.</p>	PRIP West	All year, on an on-going basis	Nudol (Russia) IOR	FSUE Hydrographical Enterprise
<p>PRIP EAST: From the point on the coastline of the Russian Federation along 125°00'E meridian, further along 125°00'E meridian to 80°00'N parallel, after that along 80°00'N parallel to 168°58'W meridian, then along 168°58'W meridian to 67°00'N parallel to the coast of the Russian Federation.</p>	PRIP East	All year, on an on-going basis	Nudol (Russia) POR	
<p>Region NAVAREA XX / METAREA XX: From the point of the coastal frontier between the Russian Federation and Norway, 69°47,68'N, 030°49,16'E, then 69°58,48'N, 031°06,24'E, then 70°22,00'N, 031°43,00'E, then 71°00,00N, 030°00,00'E, then along 30°00'E meridian to 90°00'N, 030°00'E (North Pole), then along 125°00'E meridian to the coast of the Russian Federation.</p>	NAVAREA XX	All year 0530, 1730	Nudol (Russia) IOR	
	METEO	All year 0600, 1800		
	Gale warnings	All year, on an on-going basis		
<p>Region NAVAREA XXI / METAREA XXI: From the point on the coastline of the Russian Federation along 125°00'E meridian,</p>	NAVAREA XX	All year 0630, 1830	Nudol (Russia) POR	
	METEO	July –		

then along 125°00'E meridian to 90°00'N, 125°00'E (North Pole), then along 168°58'W meridian to 67°00'N parallel, then along 67°00'N parallel to the coast of the Russian Federation.		October 0600, 1800		
	Gale warnings	July – October 0600, 1800 on an on- going basis		
	SAR	All year, on an on-going basis		