

WORLD-WIDE NAVIGATIONAL WARNING SERVICE SUB-COMMITTEE 11th Meeting (WWNWS 11)

Halifax, 26 – 31 August 2019

IMSO Update

**Moin Ahmed
Director General
International Mobile Satellite Organization**

About IMSO

- 105 Member States
- Assembly of Parties
 - *Meets once in every two years*
- Advisory Committee
 - Meets twice in a year
- Headquarters
 - *4 Albert Embankment, London (UK)*



IMSO – Main responsibilities

- **Article 3 of the IMSO Convention**

Ensuring the provision, by each Provider (so far Inmarsat), of maritime mobile satellite communications services for the GMDSS according to the legal framework set up by IMO (IMO Res.A.1001(25))

- **Article 4 of the IMSO Convention**

Performing the functions and/or duties of LRIT Coordinator as per Resolution MSC.275(85)

- Participating in the work of IMO and other international bodies/fora on GMDSS and LRIT-related matters

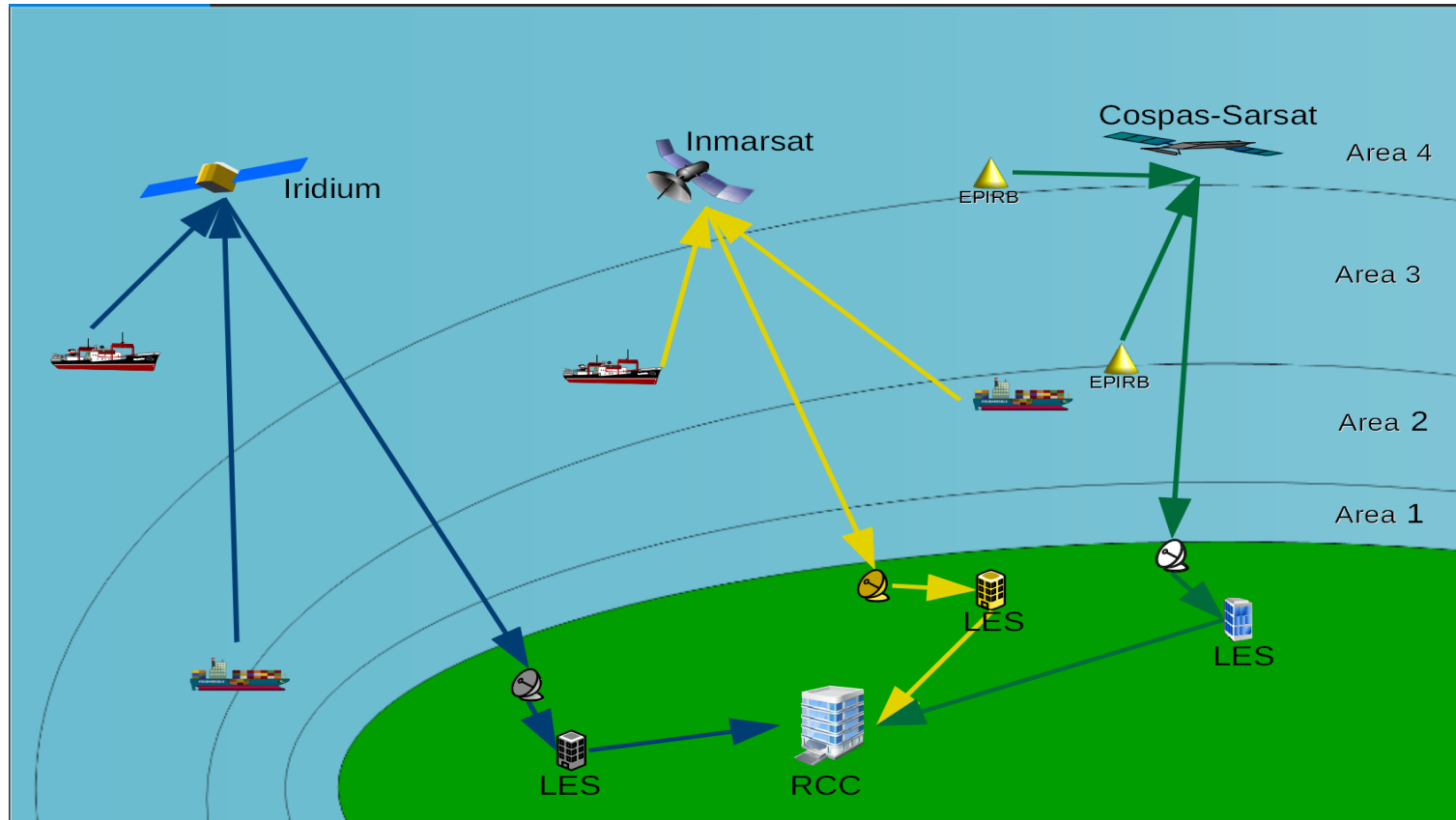


IMSO relationships with other organizations

- **United Nations and Specialized Agencies**
 - *ITU, ICAO, IMO, WMO, and UNOOSA*
- **Intergovernmental Organizations**
 - *IHO, COSPAS-SARSAT, EC, ITSO, EUTELSAT IGO, and Intersputnik,*
- **Non-Governmental Organizations**
 - *ISO, CTO, IALA, CIRM, and ICS*
- **Cooperation Agreements and MoUs signed with:**
 - *ICAO, WMO, IHO, ISO, IALA, CIRM, ICS, and Intersputnik*



GMDSS



Mobile satellite communication systems

- Until now, Inmarsat is the only recognized mobile satellite communication service provider in the GMDSS. Iridium is expected to start providing services from 01 January 2020.
- Ships equipped with mobile satellite earth station terminals rely on companies providing recognized communication services for distress and safety-related communications
- IMSO is responsible for oversight of companies providing public safety services



GMDSS oversight - legal instruments

- **IMSO Convention**
- **IMO Assembly Resolution 1001(25)**
Criteria for the provision of mobile satellite communication systems in the global maritime distress and safety system (GMDSS)
- **Public Services Agreement (PSA)***
Between IMSO and companies providing recognized satellite communication services in the GMDSS
* The 25th Assembly (November 2018) approved the Reference PSA



Requirements for a GMDSS provider

- Provide satellite communication capabilities for:
 - distress communications in the ship-to-shore & shore-to-ship directions;
 - search & rescue coordinating communications;
 - transmission & reception of Maritime Safety Information (**MSI**);
 - general communications with shore facilities and other ships.
- Ability to maintain the contracted coverage through:
 - continuous availability (> 99.9 %) of service over coverage areas;
 - availability of spare satellite capacity;
 - capability to restore services within 60 minutes.

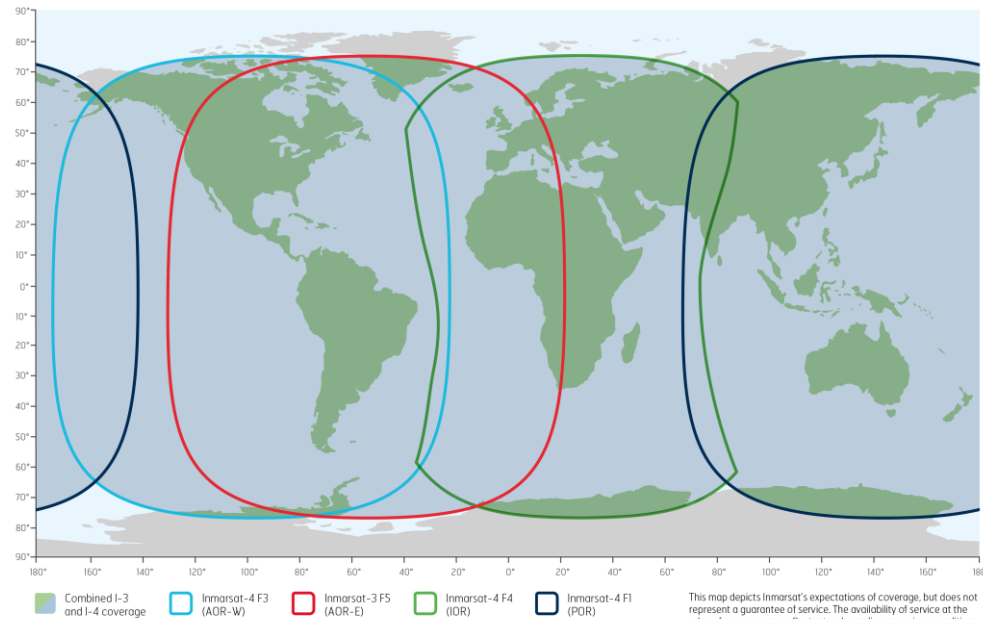
GMDSS oversight activities

- Public Services Committee meetings
- Satellite contingency exercises
- Request regular reports on availability statistics
- Request report on any satellite outage
- Act as a link between Member States and Companies
- Report to IMO on an annual basis



Updates on Inmarsat:

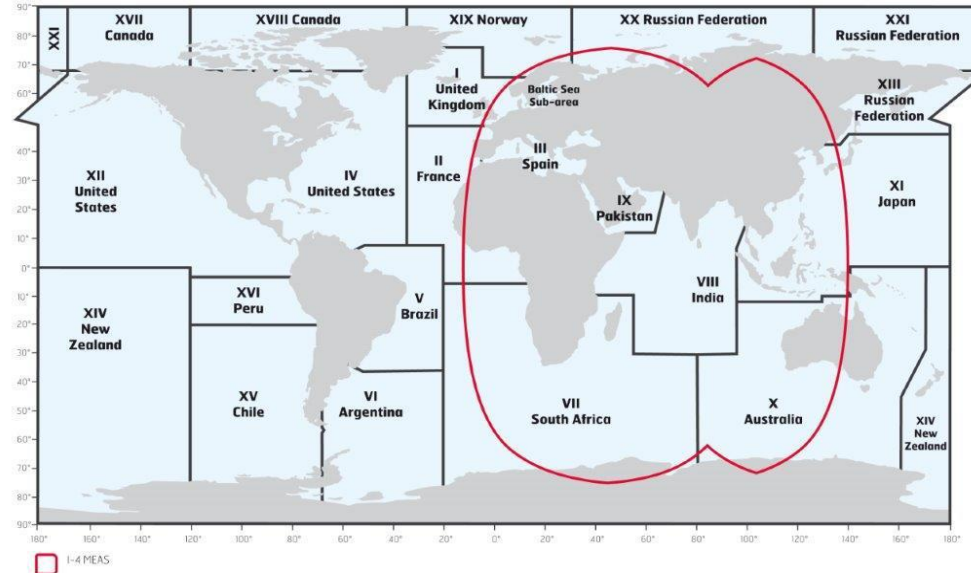
- Recognized services
 - Inmarsat C



This map depicts Inmarsat's expectations of coverage, but does not represent a guarantee of service. The availability of service at the edge of coverage areas fluctuates depending on various conditions. Inmarsat C and Mini C coverage January 2019.

Updates on Inmarsat:

- Recognized services
 - Fleet Safety - Resolution MSC.450(99) on the Statement of Recognition of Maritime Satellite Services provided by the Inmarsat Global Ltd (Jun/2018).



Updates on Inmarsat:

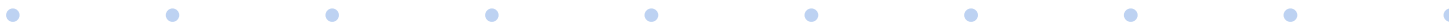
- Closure of Fleet-77 service will cease on 01 December 2020.
- Migration of Inmarsat GMDSS services from the I-3 to I-4 generation satellites completed on 12 December 2018.
- Satellite contingency exercises under the I4 configuration have been successfully conducted, as planned:

Date	Region	Location	Status
8th Feb	IOR	Burum	Completed
21st May	POR	London	Completed
31st July	AORE	Burum	Completed
14th Oct	AORW	London	Planned

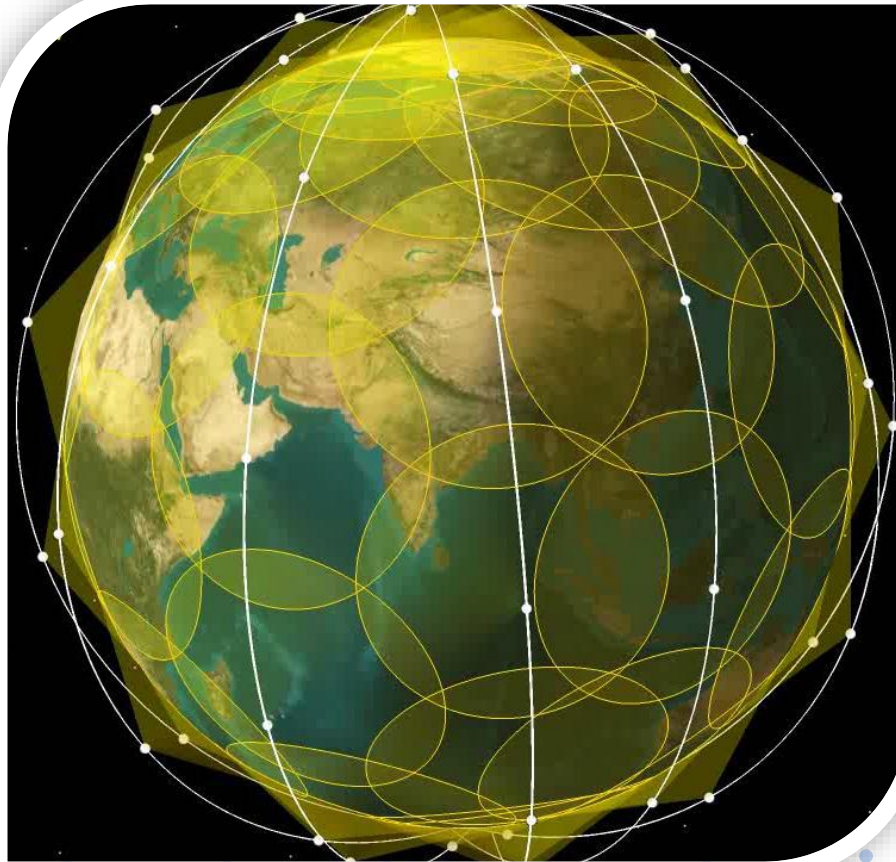


Updates on Inmarsat:

- A short outage occurred on 24 January 2019, which affected messages sent over the POR satellite. No messages were lost in the event.
- SafetyNet II
- Fleet Safety
- MSI transmission
- The proposed acquisition of Inmarsat plc by the Connect Bidco Limited Consortium



Update on Iridium



 **iridium**[®]
Everywhere



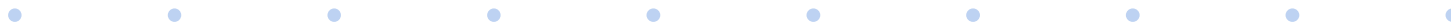
Update on Iridium

- Jun 2018 – MSC 99 adopted resolution MSC.451(99) on the Statement of Recognition of Maritime Satellite Services provided by Iridium Satellite LLC, subject however to IMSO monitoring the implementation of services and verifying that all elements had been brought into service satisfactorily;



Update on Iridium

- March 2019 – IMSO’s Director-General signed a Public Services Agreement (PSA) between IMSO and Iridium Satellite LLC on 12 March 2019.
- This PSA will enter into force on the date IMSO issues the ***Letter of Compliance*** to Iridium in respect to the services specified in resolution MSC.451(99).



Update on Iridium

- The key implementation issues were identified by NCSR 5 in paragraphs 14.45 to 14.47 of NCSR 5/23, and include:
 - confirmation of availability statistics and spare satellite capacity;
 - completion of the terminal type-approval procedures;
 - development of design and installation guidelines consistent with the performance standard;
 - launching the Iridium Safety Voice service;
 - implementation of the Iridium enhanced group call service, as verified by operational trials;
 - (.....)



Update on Iridium

- The key implementation issues were identified by NCSR 5 in paragraphs 14.45 to 14.47 of NCSR 5/23, and include:
 - completion of hot back-up facility;
 - development of operational procedures related to the provision of the recognized mobile satellite services in the GMDSS;
 - development of procedures for contingency exercises to test critical system functions based on the operational procedures; and
 - bringing into force the Public Services Agreement with IMSO.



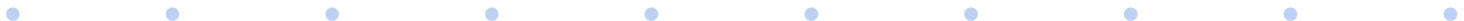
Update on Iridium

- Interim SafetyCast manual
- MSI integration
- Iridium will provide EGC capability for polar regions



Update on BeiDou

- China presented the document NCSR 6/14/3 on the *Status and plans of BDMSS for recognition and use in GMDSS*, informing its intention to submit a BDMSS self-assessment report, in accordance with resolution A.1001(25), to the Sub-Committee at its seventh session in 2020, and specific work related to the assessment will be carried out with IMSO.



GMDSS – multiple providers issues

All issues remain outstanding:

- Financial impacts
- Operational implications
- Monitoring issues

GMDSS Master Plan

- The current presentation of the GMDSS Master Plan in IMO GISIS may require an update to incorporate the SafetyCast and consequential information.



GMDSS – multiple providers issues

- Resolution A.1001(25) provides the Criteria for the provision of mobile satellite communication systems in the Global Maritime Distress and Safety System (GMDSS).
- MSC 101 approved a new planned output in the post-biennial agenda to update the Resolution, under the NCSR coordination.

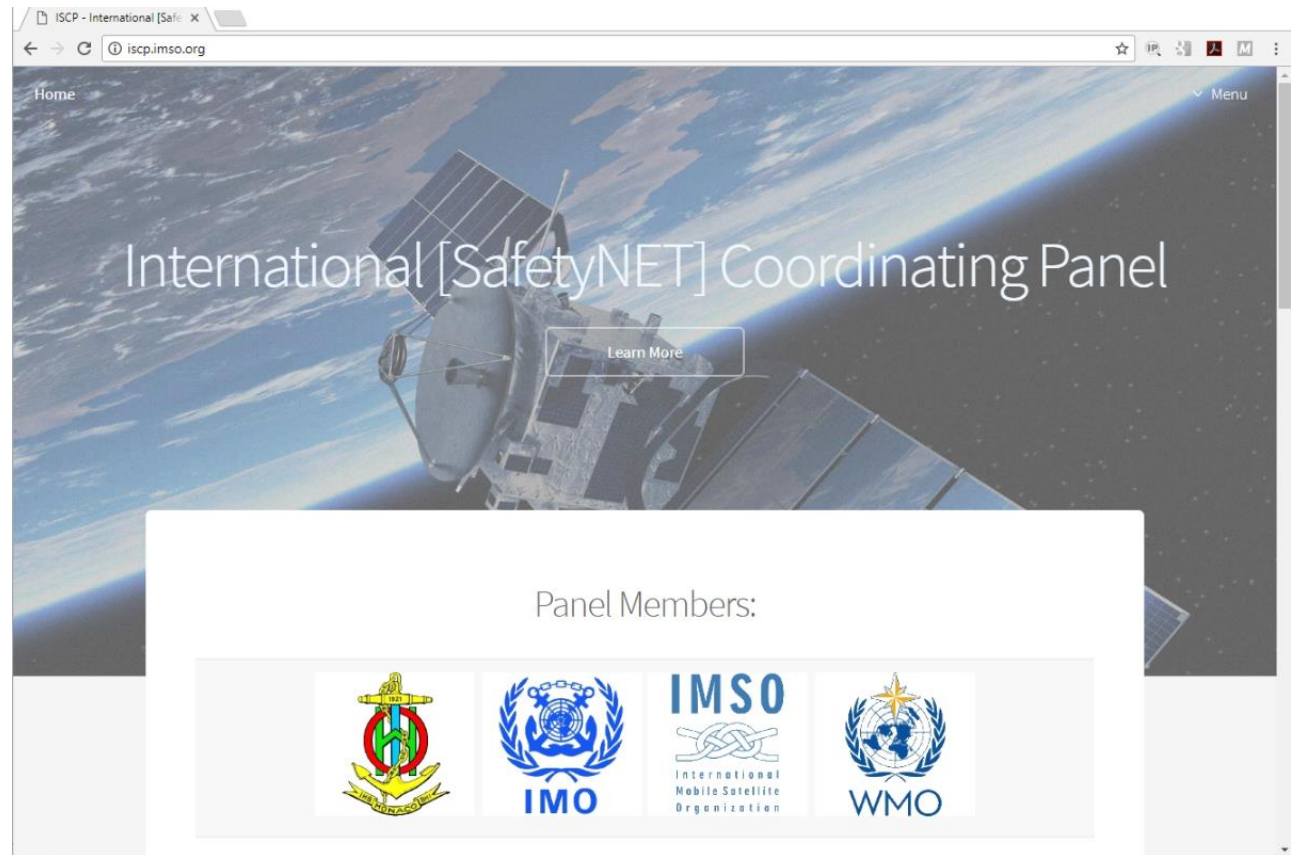


L-Band issue

- The IMO-ITU EG 15 discussed the issue, as reflected in its report to the ITU-R and NCSR.
- WRC-19



Website for the EGC Panel

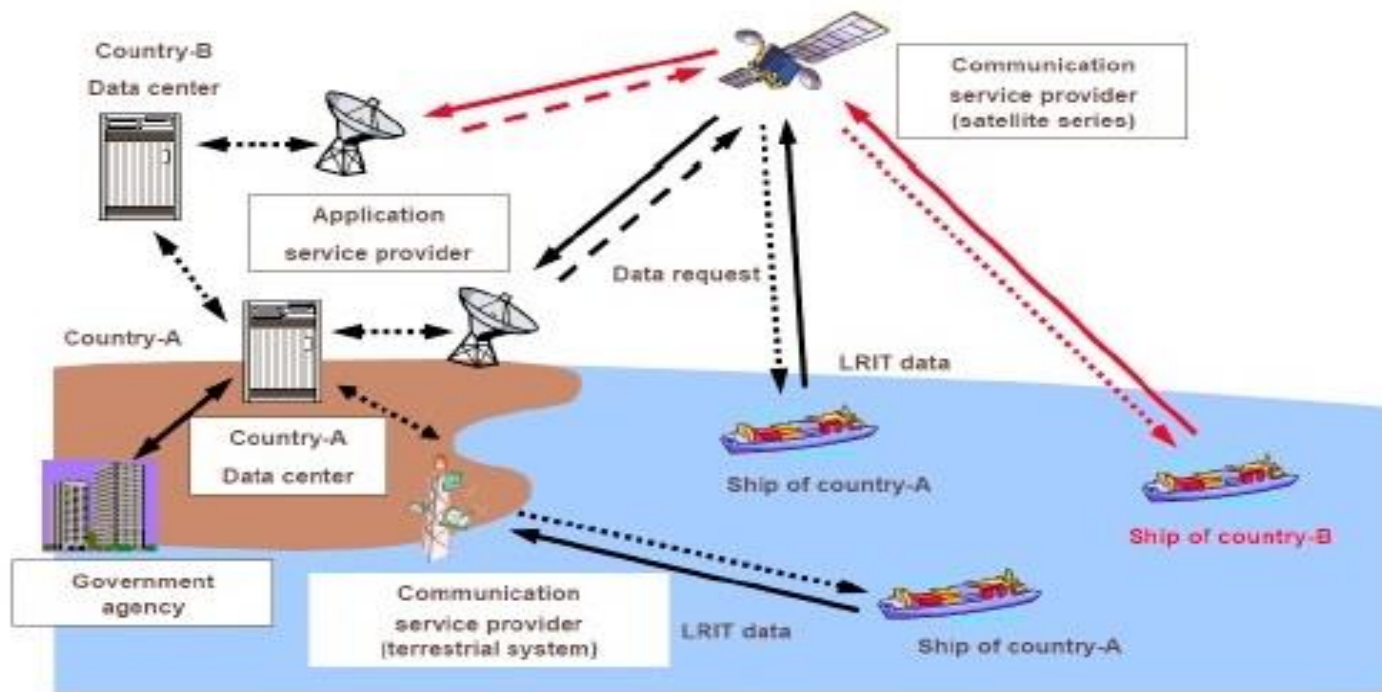


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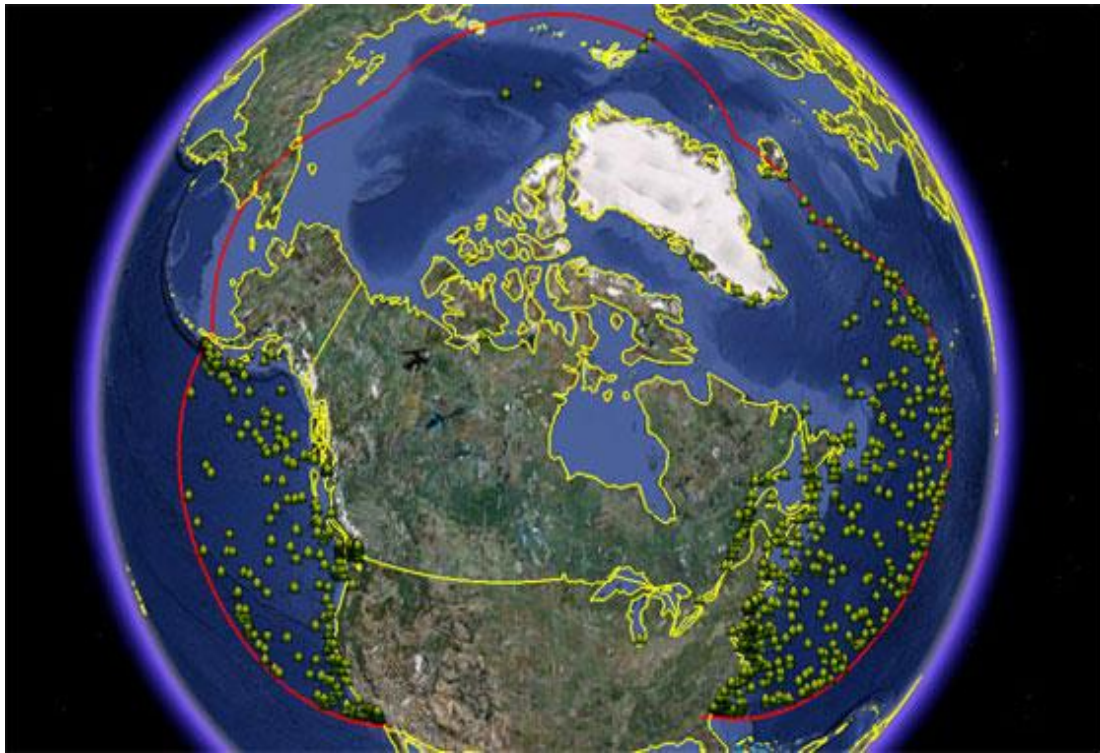
- Skeleton of the website is ready
- The URL for the website is iscp.imso.org



LRIT System



LRIT System



LRIT System

- Long-Range Identification and Tracking of Ships (LRIT) system was established by IMO and SOLAS Regulation V/19-1 entered into force on 1 Jan 2008
- LRIT's main purpose is to improve maritime security, safety and environment protection
- LRIT is based on collection of geographical location and identity information from ships and distribution of that information with entitled LRIT Data Users through a gateway
- IMSO has been appointed as the "LRIT Coordinator" to audit the performance of all components of the system and ensure the uniform implementation of the system worldwide (resolution MSC.275(85))





THANK YOU FOR YOUR ATTENTION

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