IMO's role and developments on GNSS

Seventeenth Meeting of the International Committee on Global Navigation Satellite Systems

Madrid, Spain
23 to 25 May 2023

IMO INTERNATIONAL MARITIME ORGANIZATION

Established in 1948 by adoption of the IMO Convention

Headquarters in London, United Kingdom

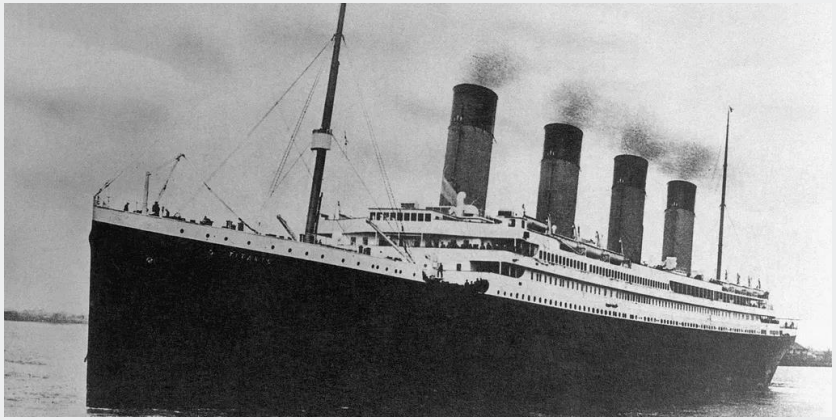
More than 300 internationally recruited staff

Assembly
Council
5 Committees
7 Sub-Committees

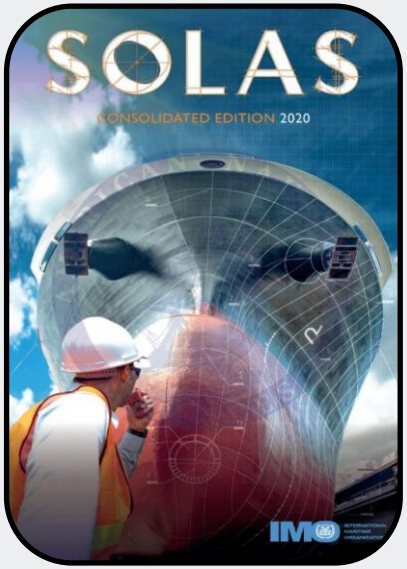
175 Member States and three Associate Members

In charge of 50 international Conventions and Protocols

Regulatory framework



15 April 1912



SOLAS regulation V/19 requires ships to have a receiver for a global navigation satellite system or a terrestrial radionavigation system, or other means, suitable for use at all times throughout the intended voyage to establish and update the ship's position by automatic means.

Regulatory framework *(continued…)*

IMO is the competent international organization that can recognize a GNSS as a component of the IMO World-Wide Radionavigation System (WWRNS).

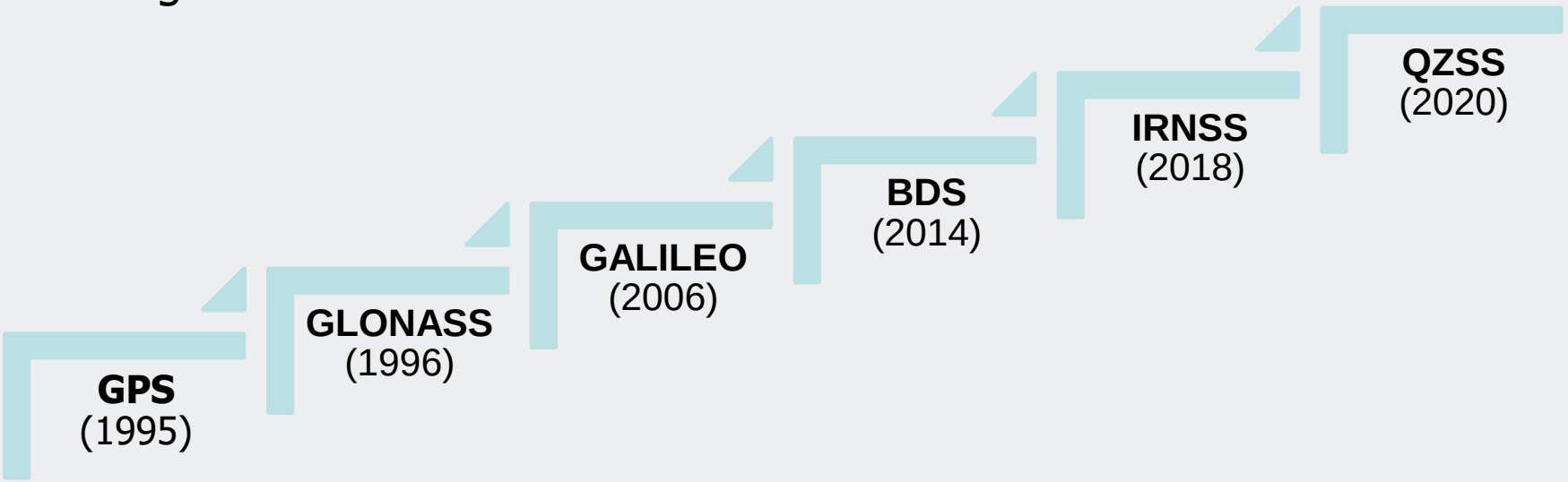
Resolution A.915(22) *Revised maritime policy and requirements for a future global navigation satellite system (GNSS)* (adopted in 2001)

Resolution A.1046(27) *Revised Report on the Study of a Worldwide Radionavigation System* (adopted in 2011)

GNSSs recognized by IMO

IMO recognition process

- Application
- Evaluation
- Development of equipment performance standards
- Recognition



Performance standards for shipborne GNSS receiving equipment

Resolutions A.819(19) and MSC.112(73)

Performance standards for shipborne Global Positioning System (GPS) receiver equipment

Resolutions MSC 53(66) and MSC.113(73)

Performance standards for shipborne GLONASS receiver equipment

Resolutions MSC 74(69), annex I, and MSC.115(73)

Performance Standards for shipborne combined GPS/GLONASS receiver equipment

Resolution MSC 233(82)

Performance standards for Shipborne GALILEO receiver equipment

Performance standards for shipborne GNSS receiving equipment *(continued…)*

Resolution MSC 379(93)

Performance standards for shipborne BDS receiver equipment

Resolution MSC.401(95) *(as amended by resolution MSC.432(98))*

Performance standards for multi-system shipborne radionavigation receivers

Resolution MSC 449(99)

Performance standards for shipborne IRNSS receiver equipment

Resolution MSC 480(102)

Performance standards for shipborne Japanese Quasi-Zenith Satellite System (QZSS) receiver equipment

Ongoing work at IMO

Development of generic performance standards for shipborne satellite navigation system receiver equipment

Proposal for development of a terrestrial positioning system (VDES R-Mode) as a backup for GNSS

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