

Charting of Irish Waters Membership of the IHO

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Topics

- SOLAS Requirements
- IHO membership.
- Irish Hydrographic Office.
- UK Hydrographic Office.
- Flag State and Port State ECDIS requirements.
- IMO ECDIS carriage requirements.

SOLAS Requirements

Chapter V Regulation 9

- Hydrographic services
1. Contracting Governments undertake to arrange for the collection and compilation of hydrographic data and the publication, dissemination and keeping up to date of all nautical information necessary for safe navigation.

SOLAS Requirements contd

2. In particular, Contracting Governments undertake to cooperate in carrying out, as far as possible, the following nautical and hydrographic services, in the manner most suitable for the purpose of aiding navigation:
 - 1) to ensure that hydrographic surveying is carried out, as far as possible, adequate to the requirements of safe navigation;
 - 2) to prepare and issue nautical charts, sailing directions, lists of lights, tide tables and other nautical publications, where applicable, satisfying the needs of safe navigation;

SOLAS Requirements contd

- 3) to promulgate notices to mariners in order that nautical charts and publications are kept, as far as possible, up to date; and
- 4) to provide data management arrangements to support these services.

SOLAS Requirements contd

3. Contracting Governments undertake to ensure the greatest possible uniformity in charts and nautical publications and to take into account, whenever possible, relevant international resolutions and recommendations.
4. Contracting Governments undertake to co-ordinate their activities to the greatest possible degree in order to ensure that hydrographic and nautical information is made available on a world-wide scale as timely, reliably, and unambiguously as possible.

International Hydrographic Organization

- Intergovernmental consultative and technical organization.
- Established in 1921
- Supports the safety in navigation and the protection of the marine environment.
- Headquarters in the Principality of Monaco

International Hydrographic Organization

Objectives of the IHO

- Coordination of the activities of hydrographic offices;
- Uniformity in nautical charts and documents;
- Adoption of reliable and efficient methods of carrying out and exploiting hydrographic surveys;
- Development of the sciences in the field of hydrography and the techniques employed in descriptive oceanography.

International Hydrographic Organization

- Ireland became the 80th member of the International Hydrographic Organization (IHO) on 4th June 2007 and was represented as an observer at the XVIIth International Hydrographic Conference in Monaco in early May 2007.
- Ireland is also a member of the North Sea Hydrographic Commission, which is one of the 14 regional hydrographic commissions of the IHO.

International Hydrographic Organization

- **Definition of Hydrography**

- Hydrography is that branch of applied sciences which deals with the measurement and description of the features of the seas and coastal areas for the primary purpose of navigation and all other marine purposes and activities, including – inter alia – offshore activities, research, protection of the environment and prediction services.
- www.iho.shom.fr

Irish Maritime Administration

- Irish Hydrographic Office will be established within the IMA of the DOT.
- Hydrographer will be appointed.

- **Main Tasks**

- Collection of Data
- Survey Planning
- Publication of Nautical Information
- UKHO matters.
- IHO matters

Irish Maritime Administration

- Based in Drogheda
- Hydrography matters will feed into Safe Seas Ireland (SSI) Project.
- SSI is part of the Vessel Traffic Monitoring and Information System (VTMIS). EU Dir 2002/59 (Safe Sea Net).
- Overseen by EMSA
- Hydrographic Services is possibly one of the areas which will be included in the Voluntary IMO Member State Audit Scheme

UK Hydrographic Office

- The UKHO will continue to produce nautical charts, publications, ENC`s, etc
- Updating will be through UKHO Weekly Notices to Mariners
- At present there is an ad-hoc arrangement with the UKHO.
- Consideration being given to the establishment of a co-operation agreement between the IMA of the DOT and the UKHO

Flag State ECDIS requirements.

- ECDIS allowed in SOLAS V/19
- ECDIS must meet the requirements of IMO resolution A.817 (19), as amended. This includes back up arrangements.
- If back up is a second ECDIS, then the vessel is permitted to operate, without the use of paper charts, in areas where Electronic Navigational Charts (ENC`s) are available, installed and operational on board the vessel.

Flag State ECDIS requirements.

- In areas where ENC`s are not available, Raster Navigational Charts (RNC`s) may be used in conjunction with an appropriate up to date folio of paper charts of the areas.
- All charts, whether paper or electronic (ENC or RNC), must be issued by or on the authority of a Government, authorised hydrographic office or other relevant government institution.
- All charts, whether paper or electronic (ENC or RNC), must be kept corrected up to date.

Flag State ECDIS requirements.

- ECDIS Operator training
- Shipowner responsible – STCW & ISM codes.
- Generic training IMO Model Co. 1.27
- Type specific ECDIS familiarisation
- Training documented
- Checked by PSC
- Facts about electronic charts and carriage requirements
- www.IC-ENC.org
- www.Primar-stavanger.org

ECDIS -- PSC

- Paris MOU guidelines
 - Checks may include
 - ECDIS documentation
 - ECDIS used for primary navigation? ENC or RCDS?
 - Written procedures
 - Operator training – documented
 - Charts are latest edition
 - Charts up to date
 - Back up arrangements

IMO ECDIS carriage requirements.

- MSC 82 -- Revised HSC Codes
- ECDIS compulsory
 - for new build craft from 1 July 2008 and
 - for existing craft from 1 July 2010

Future IMO ECDIS carriage requirements?

- Nav 53 meeting
- Discussions took place regarding a timetable for the introduction of a mandatory carriage requirement for ECDIS on all vessels.
- Formal Safety Assessment on ECDIS by number of countries showed positive benefit
- ENC global coverage estimated 82% –94%

Future IMO ECDIS carriage requirements?

- Discussions will continue at Nav 54
- Focus on implementation dates for different ship types and also on tonnage thresholds.
- It has been suggested that the effective date of implementation for all new ships should be July 2010 with existing ships to follow suit between July 2011 and July 2013, depending on ship type.
- The suggested tonnage thresholds vary considerably.

Thank you