

International Hydrographic Organization



Summary of the Activities of the IHO Geospatial Information (GI) Registry

S-101PT3

IHO Secretariat, Monaco – 19-21 June 2018

IHO Secretariat

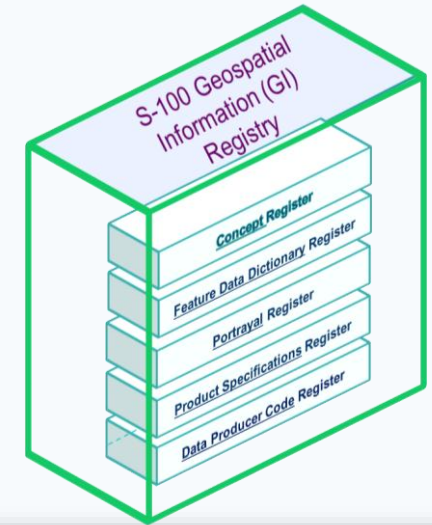


Introduction

- **IHO Geospatial Information(GI) Registry** is the entire information system in which the collection of hydrographic-related Registers are located.
 - Current Registers: Feature Concept Dictionary; Portrayal; [Metadata]; **Product Specification**; and **Data Producer Code**.
 - Other Components: Feature Catalogue Builder (FCB); Portrayal Catalogue Builder (BCB).
- **KHOA has continued to support the development of the new Registry**



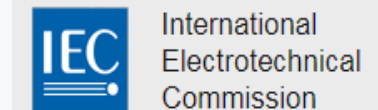
Korea Hydrographic and
Oceanographic Agency



<http://registry.iho.int/>



Summary of Activities of the IHO GI Registry



Welcome to the S-100 Geospatial Information Registry (Version 2.1)

This registry is owned by the International Hydrographic Organization (IHO) is managed by the Secretariat of the IHO. The site contains many registers of hydrographic information together with registers of supplementary information owned by specialist domain experts. Each register type is further sub-divided into domains e.g. hydrographic, nautical publications, ice, inland ENC etc. The administration of this registry conforms to IHO Publication S-99 (Operational Procedures for the Organization and Management of the S-100 Geospatial Information Registry) a copy of which can be downloaded [here](#).

The information contained in the Registry can be freely accessed, however items can only be added or changed by the managers of approved Submitting Organizations. Application to become a Submitting Organization can be made by fulfilling the requirements of the prerequisite form available [here](#). Please note: It is not necessary to be a submitting organization in order to request new (S-62) Data Producer codes. Requests for new Data Producer codes, or changes to existing codes should be sent to the following email address (adcs@iho.int).

Once accepted as a submitting organization you are free to submit proposals to any register. The Registry interface undergoes periodic improvements and any difficulties using this site should be reported to the [Registry Manager](#).

* Go to [Portrayal Catalogue Builder](#)

> Feature Concept Dictionary Register according to S-100

No.	Type	Valid	Superseded	Retired
1	Feature Type	321	270	269
2	Information Type	17	1	0
3	Simple Attribute Type	577	236	95
4	Enumerated Type	3400	631	206
5	Complex Attribute Type	104	49	1
6	Code List Type	19	1	0
7	Code List Value Type	172	2	0

> Portrayal Register

No.	Type	Valid	Superseded	Retired
1	Symbol	572	0	0
2	Line Style	55	0	0
3	Area Fill	26	0	0
4	Font	4	0	0

Registry Owner

Registry Manager

Register Managers



Summary of Activities of the IHO GI Registry

- Some statistics:

- Total number of items = 6371**

- Features (Geo/Meta) = 860**

- Information = 18**

- Simple Attributes = 908**

- Enumerates = 4237**

- Complex Attributes = 154**

- Codelists = 20**

- Codelist Values = 174**

- Portrayal Items = 658**

Feature Concept Dictionary Register according to S-100

No.	Type	Valid	Superseded	Retired
1	Feature Type	321	270	259
2	Information Type	17	1	0
3	Simple Attribute Type	577	236	95
4	Enumerated Type	3400	631	206
5	Complex Attribute Type	104	49	1
6	Code List Type	19	1	0
7	Code List Value Type	172	2	0

Portrayal Register

No.	Type	Valid	Superseded	Retired
1	Symbol	573	0	0
2	Line Style	55	0	0
3	Area Fill	26	0	0
4	Font	4	0	0

- FCD Register:

- Valid items = 4610**

- Superseded items = 1190**

- Retired items = 571**

- No. of proposals Apr 17 – Apr 18 = 624**

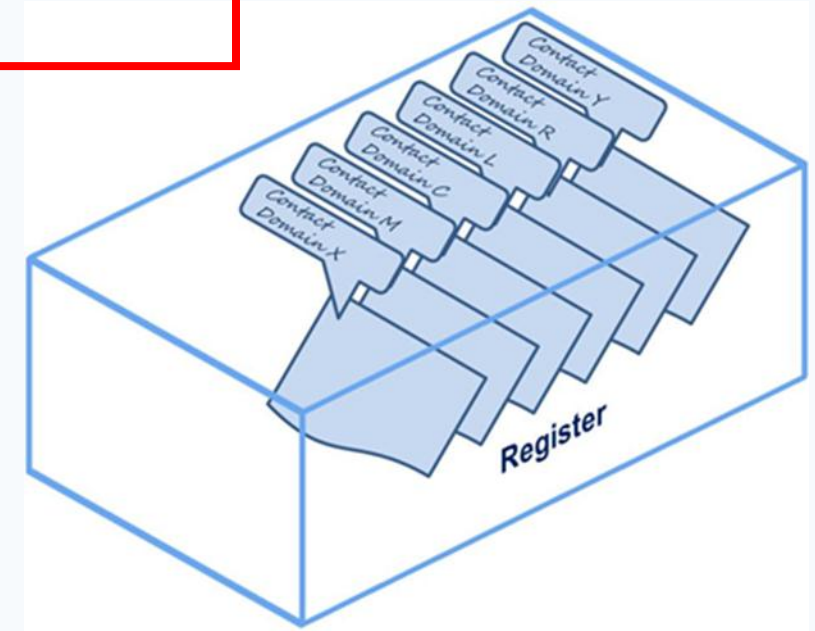
FCD Register



Summary of Activities of the IHO GI Registry

- Domains (FCD Register):

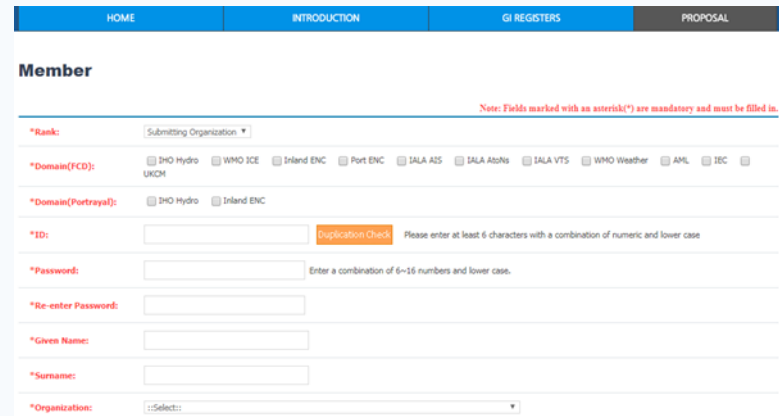
- IHO Hydrographic – (IHO Working Groups (S-100WG, NIPWG, S101PT, TWCWG, WWNWS Sub-WG,))
- Inland ENCs – (IEHG)
- Sea Ice – (WMO)
- Weather – (WMO)
- IALA AtoNs – (IALA)
- IALA VTS – (IALA)
- IALA AIS – (IALA)
- IEC – (IEC)
- Under Keel Clearance Management – (UKCM Project Team)



Summary of Activities of the IHO GI Registry

- Submitting Organizations (FCD Register):

- IHO, IEC, IALA, WMO, IEHG
- S-100WG (KHOA, NOAA, SMA, Spanish HO)
- NIPWG (BSH, UNH)
- UKCMPT (AMSA)



The screenshot shows the 'Member' registration form on the IHO GI Registry website. The form is titled 'Member' and includes a note: 'Note: Fields marked with an asterisk(*) are mandatory and must be filled in.' The form fields are: *Rank (dropdown menu), *Domain(FCD) (checkboxes for IHO Hydro, UKOH, WMO ICE, Inland ENC, Port ENC, IALA AIS, IALA Atoms, IALA VTS, WMO Weather, APL, IEC), *Domain(Portrayal) (checkboxes for IHO Hydro, Inland ENC), *ID (text input with a 'Duplication Check' button and a note: 'Please enter at least 6 characters with a combination of numeric and lower case'), *Password (text input with a note: 'Enter a combination of 6-16 numbers and lower case'), *Re-enter Password (text input), *Given Name (text input), *Surname (text input), and *Organization (dropdown menu).

- Domain Control Body (FCD Register):

- IHO, IEC, IALA, WMO, IEHG
- S-100WG, NIPWG

~~Executive Body?~~

- Submitting Organizations (Portrayal Register):

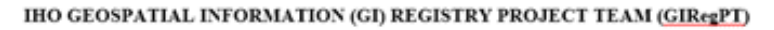
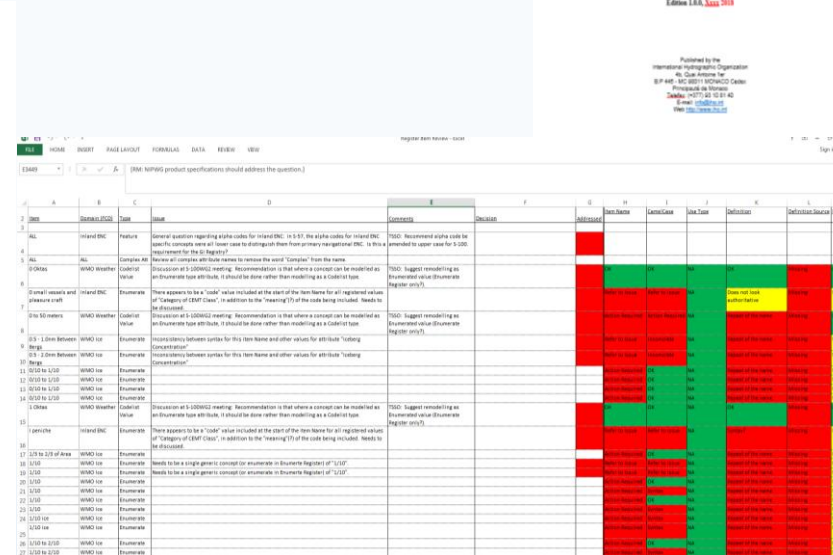
- IHO, IALA, IEHG
- S-100WG (IIC, KHOA, NOAA, SMA, Spanish HO)
- NIPWG (BSH)

- Domain Control Body (Portrayal):

- IHO, IEHG
- S-100WG, NIPWG



- The “IHO GI Registry Project Team”:
 - S-100WG2 Action 22 – ToRs Approved S-100WG3
 - Registry structure and management
 - Registry Content
 - Conventions and Guidelines



Reference: 2nd S-100WG Meeting (Genoa, Italy, March 2017)
3rd S-100WG Meeting (Singapore, April 2018)

- a) To provide expertise and assistance to the IHO Geospatial Information (GI) Registry Manager for the development and maintenance of the IHO GI Registry infrastructure.
- b) To provide expertise to assist the IHO Secretariat in the development and maintenance of IHO publication S-99 - *Operational Procedures for the Organization and Management of the S-100 Geospatial Information Registry*.

This Project Team (GIRegPT) is a subsidiary of the S-100 Working Group (S-100WG). Its work will be guided by the rolling Work Plan established by the S-100WG and subject to its approval.

- a) The Project Team (GIRegPT) shall comprise representatives of the IHO Secretariat, IHO Member States (MS), Expert Contributors (EC) and observers from accredited NGOs. A membership list shall be maintained and posted on the IHO website.
- b) EC membership is open to entities and organizations that can provide relevant and constructive contribution to the work of the GIRegPT. ECs shall seek approval of their membership from the Chair of the GIRegPT.
- c) EC membership may be withdrawn, in the event that a majority of GIRegPT members agree that an EC's continued participation is either irrelevant or not constructive to the work of the GIRegPT.
- d) The Chair of the GIRegPT shall be the IHO GI Registry Manager.
- e) If a secretary is required, the position should normally be filled by a member of the GIRegPT, approved by the Chair.

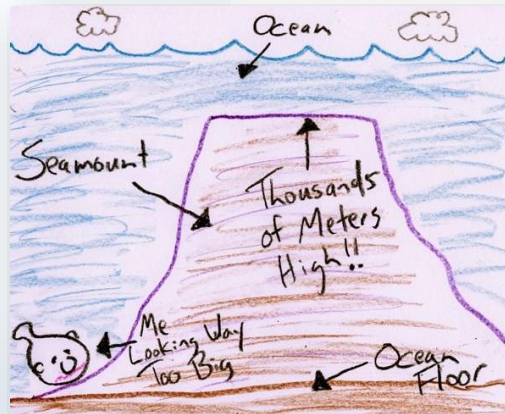
- The GIRegPT should work primarily by written correspondence and teleconferences. If a face to face meeting is required, it should be held in conjunction with a S-100WG meeting.
- Decisions should be made by consensus. Dissenting opinions, if any, should be reflected in the GIRegPT report.
- The GIRegPT should liaise with other IHO bodies, international organizations, end users and industry to ensure the relevance and currency of its work.
- The GIRegPT should identify a Work Programme for each year, including expected time frame for progressing tasks.
- The GIRegPT should report to the S-100WG in accordance with its Work Plan.

Proposed Structure of the IHO GI Registry



Proposed Structure of the IHO GI Registry

Real World Feature

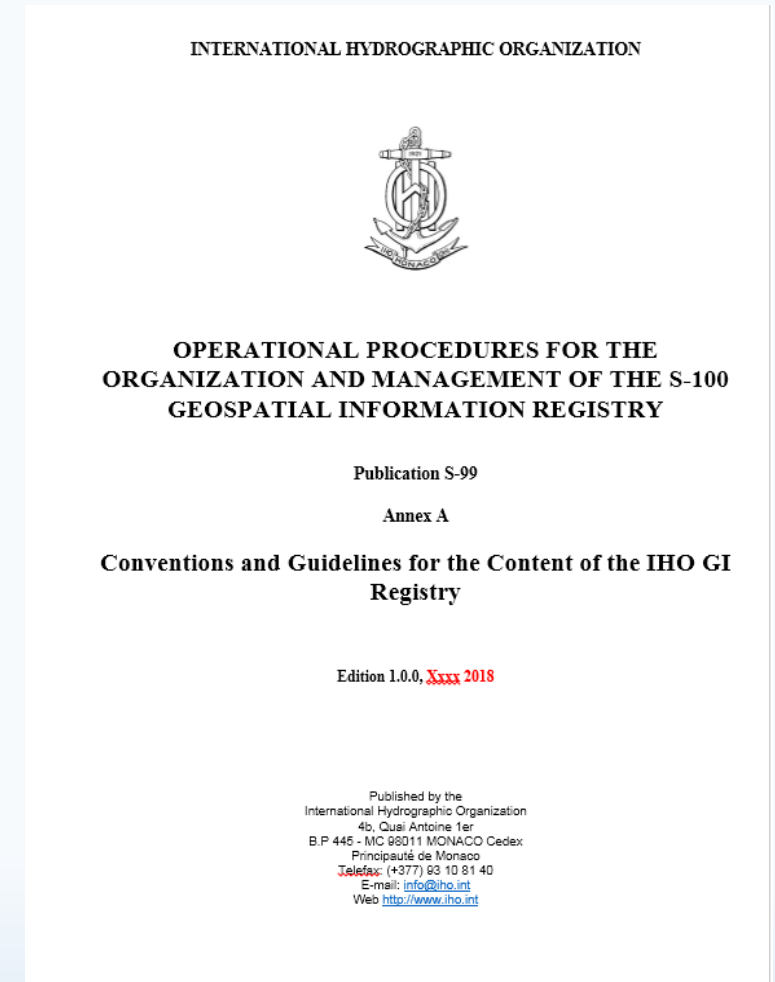


Domains / Users



Guidelines for Proposals to the IHO GI Registry

- *S-99 - Operational Procedures for the Organization and Management of the S-100 Geospatial Information Registry*
 - Provides high level operational guidance for the IHO GI Registry.
- **S-100WG2 Action 21:**
 - Develop draft guidelines for submission of proposals to the IHO GI Registry for Submitting Organizations, Domain Control Bodies and the Register Manager, for consideration of the S-100WG.
- Provisionally assigned S-99 Annex A – S-100WG3



- Initial review conducted 2017*
 - Initial results reviewed by GIRegPT
December 2017

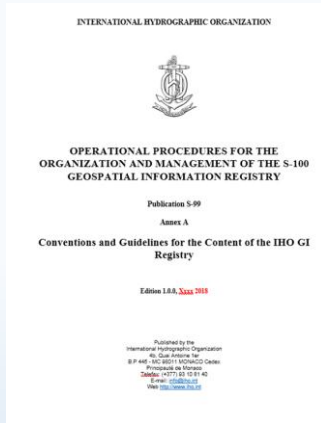
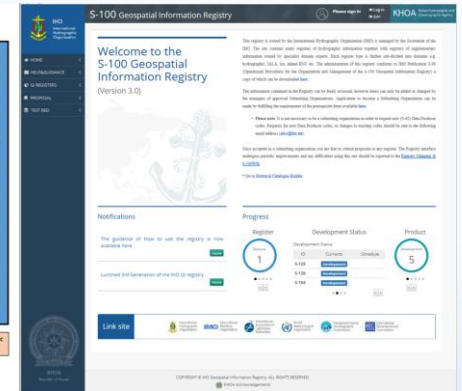
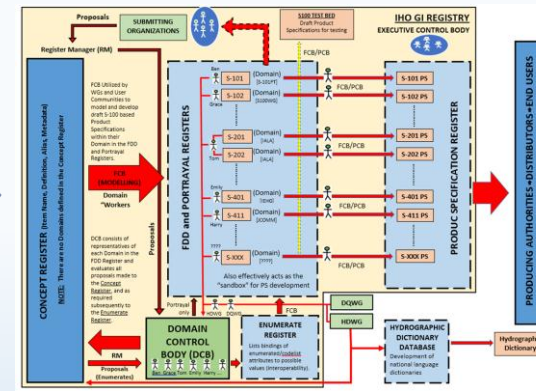
* Review criteria used were draft Guidelines and Conventions document



GI Registry – Way Forward

- Progressive improvement:
 - Complete Conventions and Guidelines document;
 - Apply guidelines and conventions to content review spreadsheet;
 - Populate “new” Concept Register and Enumerate/Codelist Registers with consistent, “clean” concepts.
 - Minimum impact on Product Specifications in development

Consultation – GI Registry Workshop

Activities of the IHO GI Registry

- Actions for S-101PT:
 - **Note** the activities of the IHO GI Registry since April 2017.
 - **Note** the intention to conduct a “IHO GI Registry Workshop” in conjunction with S-100WG4 (tentatively March 2019) and encourage any members of the PT that have been involved in the activities of the Registry to attend.



Activities of the IHO GI Registry

THANK YOU



Activities of the IHO GI Registry



For more information: <https://www.iho.int>
IHO Secretariat Contact: jeff.wootton@iho.int

