International Hydrographic Organization



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

HSSC11

Cape Town, South Africa – 06-09 May 2019

IHO Secretariat (GI Registry Manager)

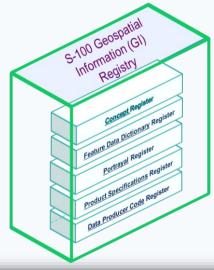
Introduction

- IHO Geospatial Information(GI) Registry is the entire information system in which the collection of hydrographic-related Registers are located.
 - <u>Current Registers:</u> Feature Concept Dictionary; Portrayal;
 <u>Metadata</u>; Product Specification; and Data Producer Code.
 - Other Components: Feature Catalogue Builder (FCB); Portrayal Catalogue Builder (PCB); DCEG Builder.

NOTE: Red text = "Beta" Registry

• KHOA continues to support the development of the new Registry

Korea Hydrographic and Oceanographic Agency



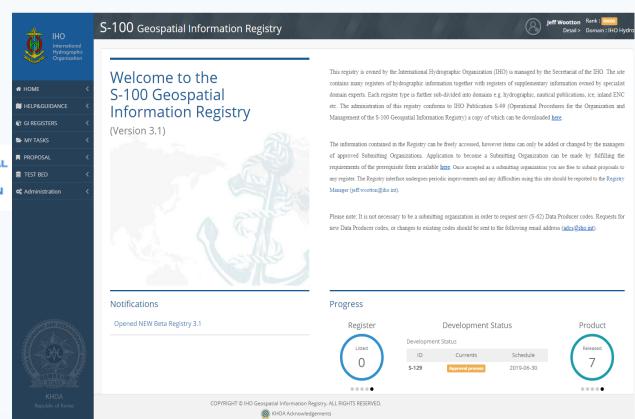


http://registry.iho.int/















Some statistics:

- **Total number of items = 7758** [6371]
- Features (Geo/Meta) = 971 [860]
- Information = **29** [18]
- Simple Attributes = **1076** [908]
- Enumerates = 4612 [4237]
- Complex Attributes = **196** [154]
- Codelists = **22** [20]
- Codelist Values = 185 [174]
- **Portrayal Items** = **667** [658]

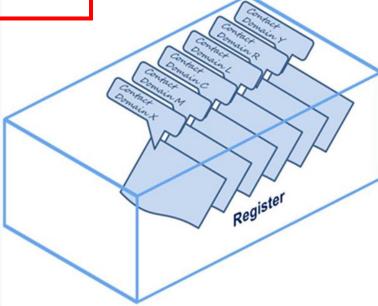
> Feature Concept Dictionary Register according to S-100								> Portrayal Register					
No.	Туре	Valid	8	Supersede	d	Retired		No.	Туре	Valid	Superseded	Retired	
1	Feature Type	<u>373</u>		<u>310</u>		<u>288</u>		1	Symbol	<u>582</u>	0	0	
2	Information Type	<u>28</u>		<u>1</u>		0		2	Line Style	<u>55</u>	0	0	
3	Simple Attribute Type	<u>637</u>		<u>281</u>		<u>158</u>		3	Area Fill	<u>26</u>	0	0	
4	Enumerated Type	<u>2792</u>		<u>832</u>		<u>988</u>		4	Font	<u>4</u>	0	0	
5	Complex Attribute Type	<u>90</u>		<u>66</u>		<u>40</u>	· '						
6	Code List Type	<u>9</u>		<u>2</u>		<u>11</u>							
7	Code List Value Type	<u>84</u>		<u>2</u>		<u>99</u>							

• FCD Register:

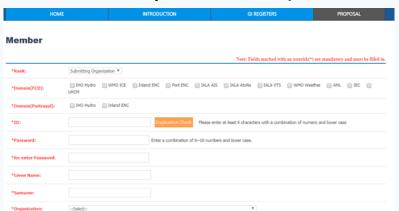
- Valid items = **4013** [4610]
- Superseded items = **1494** [1190]
- Retired items = **1584** [571]
- No. of proposals Apr 18 Apr 19 = **1127** [624]

FCD Register

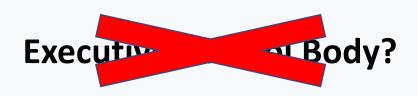
- Domains (FCD Register):
 - IHO Hydrographic (IHO Working Groups (S-100WG, NIPWG, S101PT, S-102PT, S-121PT, TWCWG, WWNWS Sub-WG) (UKCMPT)
 - Inland ENCs (IEHG)
 - Sea Ice (WMO)
 - Weather (WMO)
 - IALA AtoNs (IALA)
 - IALA VTS (IALA)
 - IALA AIS (IALA)
 - IEC (IEC)
 - Under Keel Clearance Management (UKCM Project Team)



- Submitting Organizations (FCD Register):
 - IHO, IEC, IALA, WMO, IEHG
 - S-100WG (KHOA, NOAA, SMA, Spanish HO)
 - NIPWG (BSH, UNH)
 - UKCMPT (AMSA)
 - S-121PT



- Domain Control Body (FCD Register):
 - IHO, IEC, IALA, WMO, IEHG
 - S-100WG, NIPWG



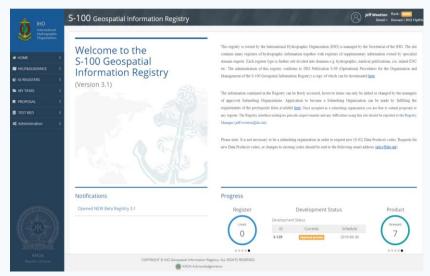
- Submitting Organizations (Portrayal Register):
 - IHO, IALA, IEHG
 - S-100WG (KHOA, NOAA, SMA, Spanish HO)
 - NIPWG (BSH), TWCWG

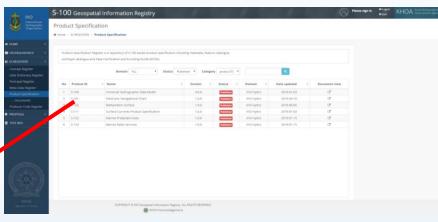
- Domain Control Body (Portrayal):
 - IHO, IEHG
 - S-100WG, NIPWG

- "Beta" Registry:
 - Portrayal, Product Specification, Data Producer Code and Metadata Registers now active
 - Includes links to Test Bed, guidance and tools (FCB, PCB, DCEG Builder, S-57 to S-101 Converter, S-100 viewers)
 - All IHO web site links to published S-100 based Product Specifications link to the associated item in the Product Specification Register
 - "Clean-up" of current FCD Register content in progress for transition to Concept Register

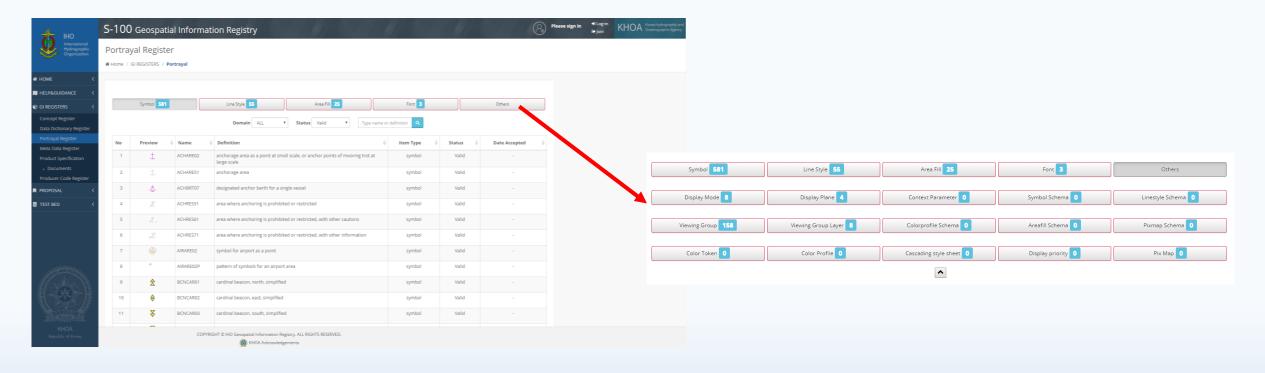






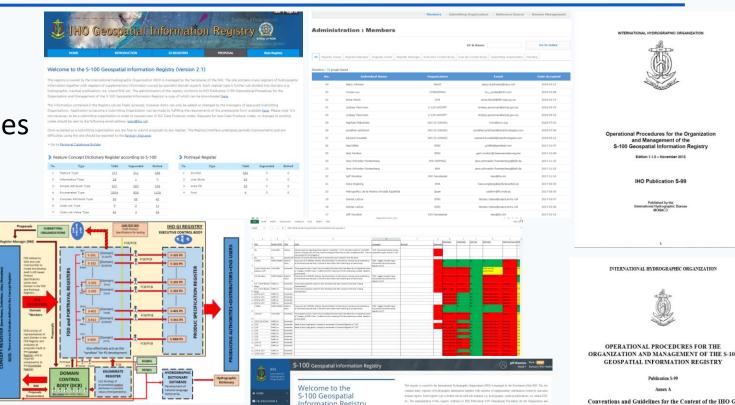


- "Beta" Registry:
 - Portrayal Register: Additional 15 types added to support all Product Specification portrayal requirements in ECDIS



- "IHO GI Registry Workshop"
 - Overview and familiarity
 - Registry roles and responsibilities
 - Registry structure
 - Registry content
 - "Beta" Registry
 - Tools
 - Feature Catalogue Builder
 - Portrayal Catalogue Builder
 - DCEG Builder
 - Documentation (S-99, S-99 Annex A, S-100 Part 2)





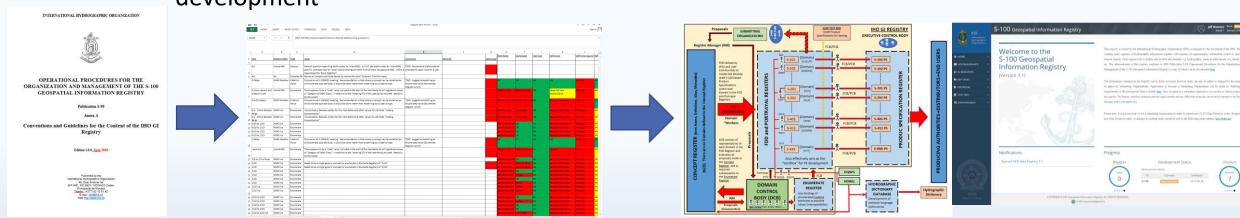
- "IHO GI Registry Workshop" outcomes
 - Common understanding of the structure and processes of the IHO GI Registry
 - Further work required to finalize the final structure of the "Beta" Registry (TSM6)
 - Agreement on fundamental conventions for FCD (Concept) Register content
 - Demonstration of Registry associated tools (FCB, PCB, DCEG Builder)
 - Commitment to progress the review of Registry management-related documentation (S-100 Part 2, S-99, S-99 Annex A) (TSM6 and S-100WG5)
 - Enhancement and confirmation of membership of the IHO GI Registry Project Team (GIRegPT)

Gl Registry – Way Forward

- Progressive improvement:
 - Complete Conventions and Guidelines document (in progress);
 - Apply approved fundamental guidelines and conventions to content of the FCD Register (in progress);
 - Populate "new" Concept Register and Data Dictionary Registers with consistent, "clean" concepts (late 2019).

Minimum impact on Product Specifications in development

Consultation – GI Registry PT and DCB



Activities of the IHO GI Registry

- Actions for HSSC11:
 - Note the activities of the IHO GI Registry since April 2018.

Activities of the IHO GI Registry

THANK YOU

Activities of the IHO GI Registry



For more information: https://www.iho.int

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