20th Conference of MBSHC

4 – 6 July 2017 (Herceg Novi, Montenegro)

IHO Work Programme 1 – "Corporate Affairs"

Information Management (IHO Website, IHO GIS,…)

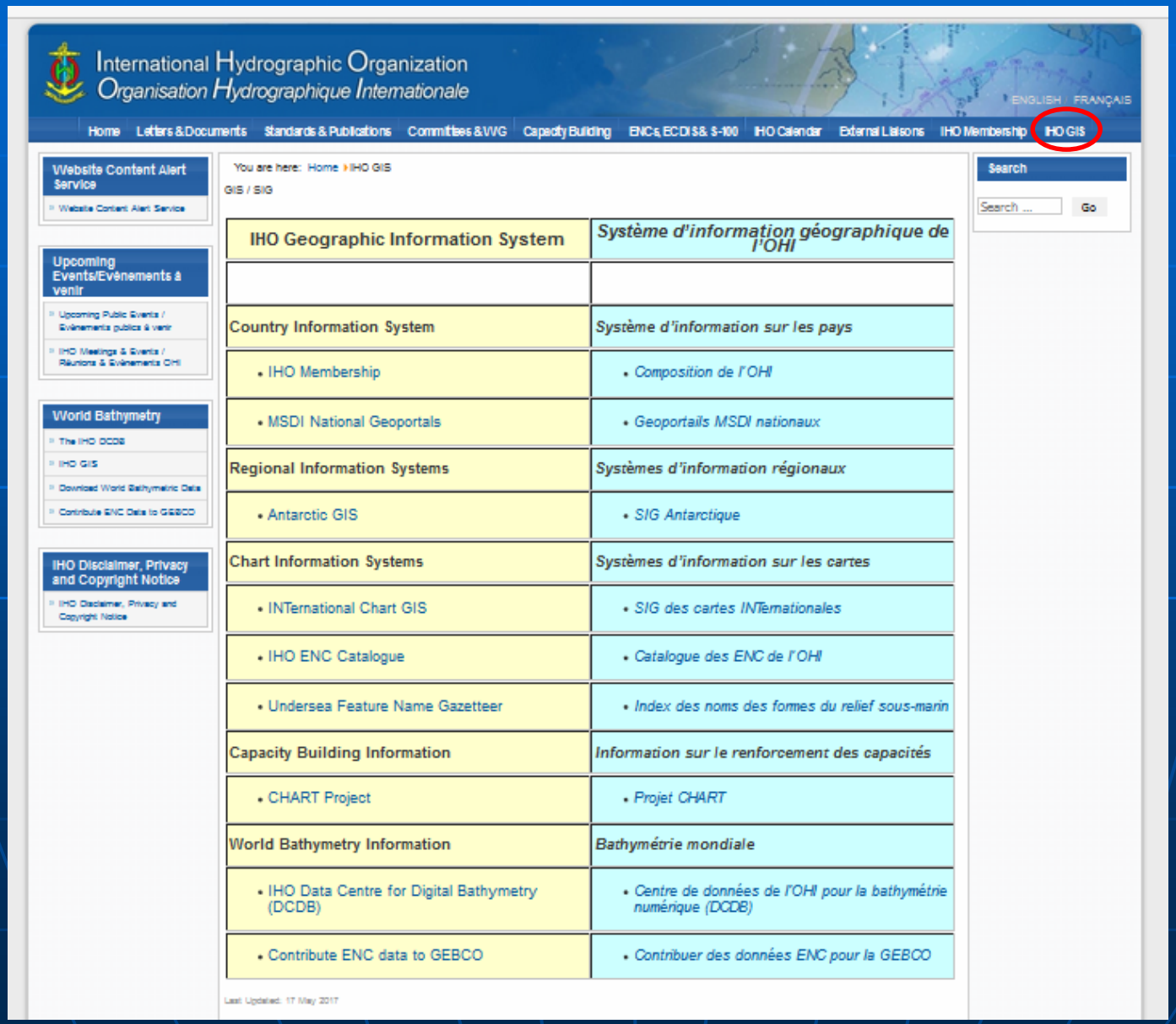
(Agenda items MBSHC20-04.2)

IHO Secretariat

Contents

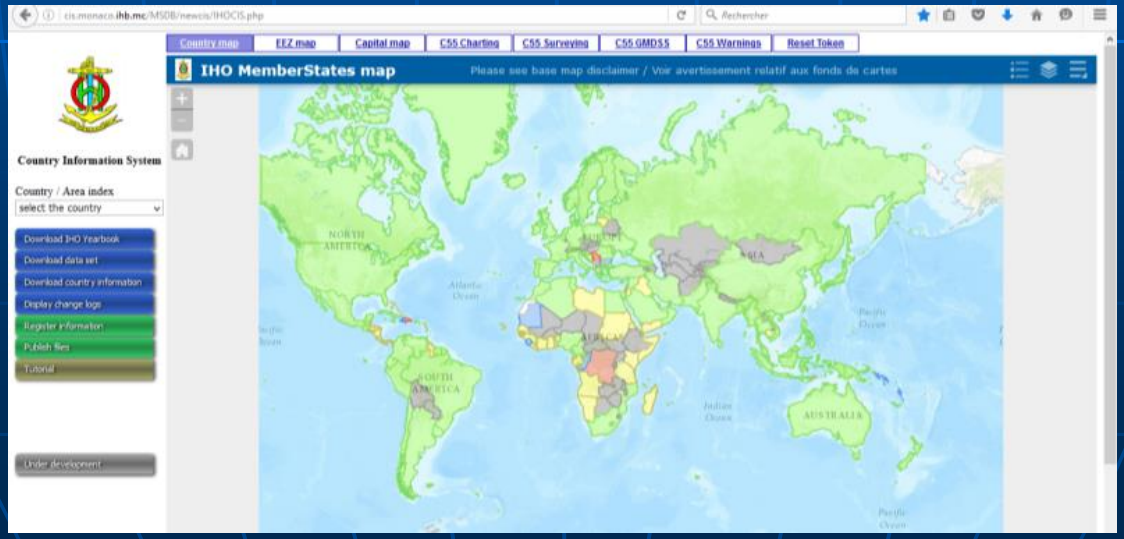
- Single Interface to IHO GIS Applications
- IHO Country Information Database
- IHO Regional Information Database
- IHO ENC Coverage Catalogue
- INToGIS
- On-Line Registration Service for IHO Meetings
- Action required of MBSHC

Single Interface to IHO GIS Applications



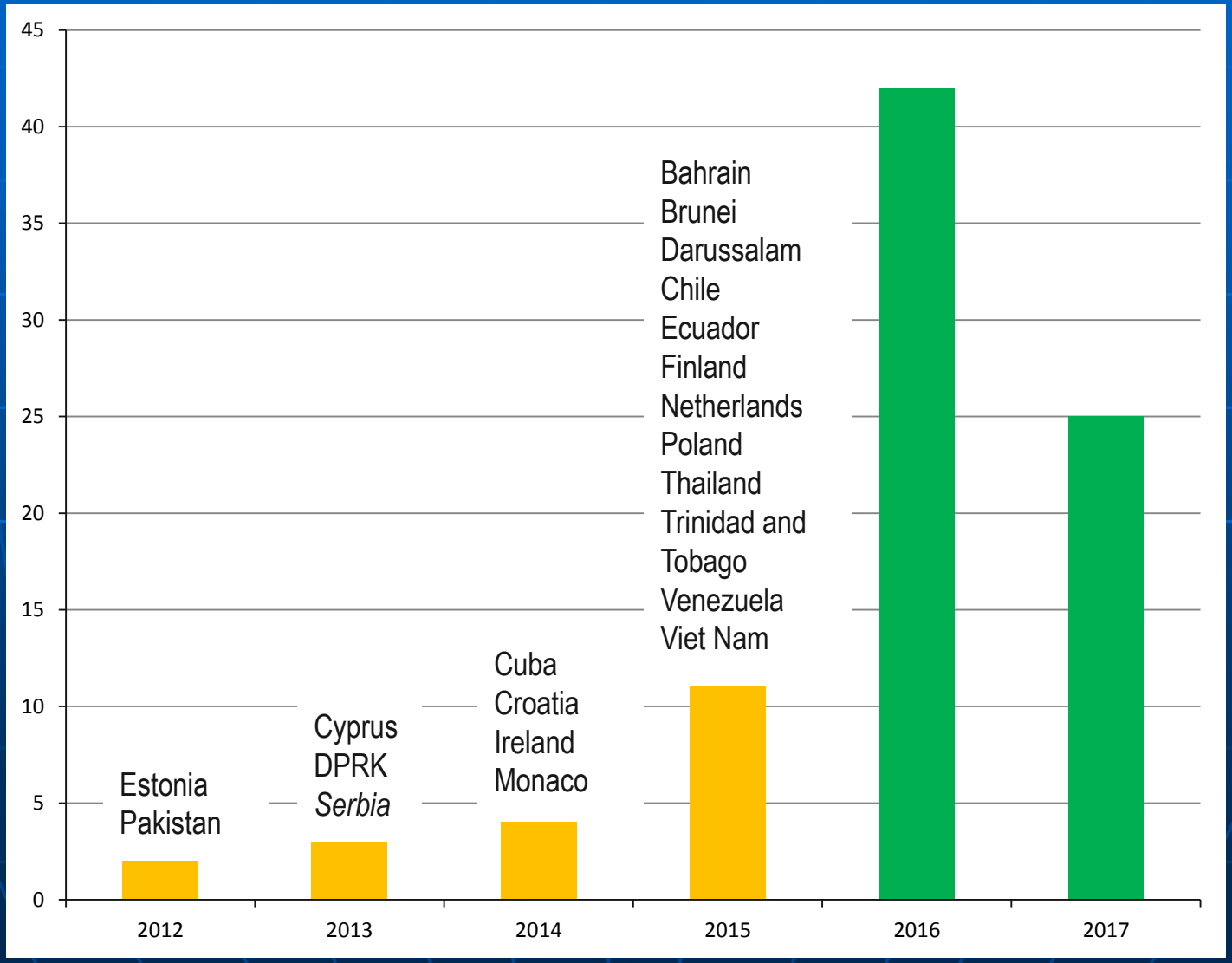
IHO Country Information Database

- Upgrade of the database to include additional information including
  - the date of signature of the SOLAS Convention, when applicable
  - the existence of a Nominated Hydrographic Authority
  - the existence of an MSI Capability, and
  - the identification of the Primary Charting Authority



IHO Country Information Database

- Currency of the information available in P-5



IHO Country Information Database

- Statistics on the status of hydrographic services

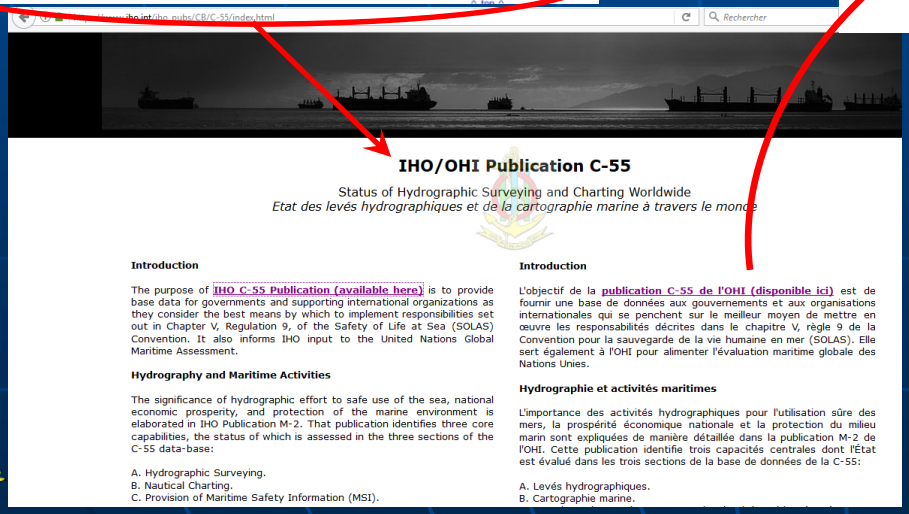
Capability	Number of IHO coastal States*	Number of other UN coastal States	Total
	86	64	150
Signatory to SOLAS	86 (100%)	58 (91%)	144 (96%)
MSI Capability	76 (88%)	14 (22%)	90 (60%)
Nominated Hydrographic Authority	86 (100%)	51 (80%)	137 (91%)
Own Charting Authority	65 (76%)	3 (5%)	68 (45%)

** Serbia not included*

IHO Country Information Database

- Transfer to the CIS of the data supporting C-55
- New on-line pdf version of C-55 generated automatically from the database

Reference/ Référence	Description	Downloads/ Téléchargement
C-6	**Reference Texts for Training in Hydrography.**(In preparation) *Textes et journaux de référence pour la formation en hydrographie (en préparation)*	
C-13	**Manual on Hydrography**, 1st Edition (Corrections to February 2011) *Manuel d'Hydrographie, 1ère édition (A jour de février 2011)* *Manual de Hidrografía, 1a edición (Actualización de Febrero del 2011)* *Manual de Hidrografia, 1a Edição (correções até Febrero 2011)*	ENGLISH FRANÇAIS ESPAÑOL PORTUGUÊS
C-16	**National Hydrographic Regulations.** January 2008 *Règlements hydrographiques nationaux. Janvier 2008* *C-16- Template (See IHO CL 09/2016 - Voir LC 09/2016 de l'OHI)*	
C-17	**Spatial Data Infrastructures: "The Marine Dimension" - Guidance for Hydrographic Offices**, Edition 1.1.0, February 2011 *Infrastructure des données spatiales: "La dimension maritime" - Guide à l'usage des Services hydrographiques, édition 1.1.0, février 2011*	ENGLISH
C-33	**Reference book about tide theory and practice (SHOM)** *Ouvrage de référence sur la théorie et la pratique de la marée (SHOM)*	ENGLISH FRENCH
C-47	**Training Courses in Hydrography and Nautical Cartography** (7th edition) *Cours de formation en hydrographie et en cartographie marine*	ENGLISH
C-51	**Manual on Technical Aspects of the UN Convention on the Law of the Sea.** (english Ed.5 & spanish Ed.4). *french version to come.* *Manuel sur les aspects techniques de la Convention des Nations Unies sur le droit de la mer. (anglais Ed. 5 et espagnol Ed.4). Version française en préparation.* *Manual sobre los Aspectos Técnicos de la Convención de las Naciones Unidas sobre el Derecho del Mar (Inglés Ed.5 y Español Ed.4). Versión francesa en preparación.*	ENGLISH ESPAÑOL IHOS Animations
C-55	**Status of Hydrographic Surveying and Nautical Charting Worldwide** -Current update. *Etat des levés hydrographiques et de la cartographie marine dans le monde - mise à jour courante*	ENGLISH / FRANÇAIS



IHO/OHI Publication C-55

Status of Hydrographic Surveying and Charting Worldwide

Etat des levés hydrographiques et de la cartographie marine à travers le monde

Introduction

The purpose of IHO C-55 Publication (available here) is to provide base data for governments and supporting international organizations as they consider the best means by which to implement responsibilities set out in Chapter V, Regulation 9, of the Safety of Life at Sea (SOLAS) Convention. It also informs IHO input to the United Nations Global Maritime Assessment.

Hydrography and Maritime Activities

The significance of hydrographic effort to safe use of the sea, national economic prosperity, and protection of the marine environment is elaborated in IHO Publication M-2. That publication identifies three core capabilities, the status of which is assessed in the three sections of the C-55 data-base:

A. Hydrographic Surveying.
B. Nautical Charting.
C. Provision of Maritime Safety Information (MSI).

Introduction

L'objectif de la publication C-55 de l'OHI (disponible ici) est de fournir une base de données aux gouvernements et aux organisations internationales qui se penchent sur le meilleur moyen de mettre en œuvre les responsabilités décrites dans le chapitre V, règle 9 de la Convention pour la sauvegarde de la vie humaine en mer (SOLAS). Elle sert également à l'OHI pour alimenter l'évaluation maritime globale des Nations Unies.

Hydrographie et activités maritimes

L'importance des activités hydrographiques pour l'utilisation sûre des mers, la prospérité économique nationale et la protection du milieu marin sont expliquées de manière détaillée dans la publication M-2 de l'OHI. Cette publication identifie trois capacités centrales dont l'État est évalué dans les trois sections de la base de données de la C-55:

A. Levés hydrographiques.
B. Cartographie marine.

INTERNATIONAL HYDROGRAPHIC ORGANIZATION

ORGANISATION HYDROGRAPHIQUE INTERNATIONALE

ORGANIZACION HIDROGRAFICA INTERNACIONAL

IHO/OHI Publication C-55

Status of Hydrographic Surveying and Charting Worldwide

Etat des levés hydrographiques et de la cartographie marine à travers le monde

Estado de los Levantamientos Hidrográficos y de la Cartografía Náutica a nivel mundial

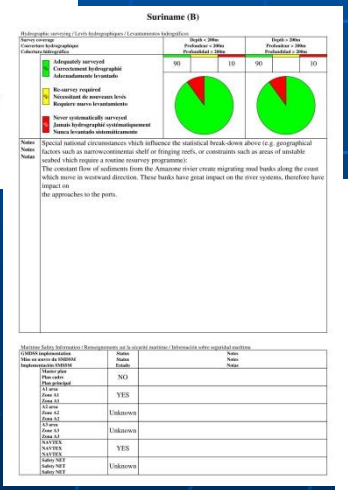
5 June / juin / junio 2017

Published by the International Hydrographic Organization

Publié par l'Organisation hydrographique internationale

Publicado por la Organización Hidrográfica Internacional

MONACO



Suriname (B)

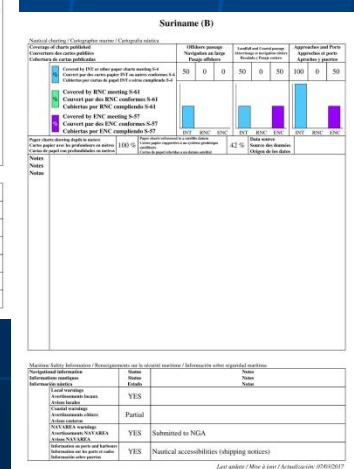
Hydrographic surveying / Levés hydrographiques / Levantamientos hidrográficos

Survey coverage / Couverture hydrographique / Cobertura hidrográfica	Depth < 200m / Profondeur < 200m / Profundidad < 200m	Depth > 200m / Profondeur > 200m / Profundidad > 200m
Adequately surveyed / Correctement hydrographié / Adecuadamente levantado	90	90
Resurvey required / Nécessitant de nouveaux levés / Requiere nuevo levantamiento	10	10
Never systematically surveyed / Jamais hydrographié systématiquement / Nunca levantado sistemáticamente		

Notes / Notes / Notas: Special national circumstances which influence the statistical break-down above (e.g. geographical factors such as narrowcontinental shelf or fringing reefs, or constraints such as areas of unstable seabed which require a routine resurvey programme):
The constant flow of sediments from the Amazone river create migrating mud banks along the coast which move in westward direction. These banks have great impact on the river systems, therefore have impact on
the approaches to the ports.

Maritime Safety Information / Renseignements sur la sécurité maritime / Información sobre seguridad marítima

GMDSS implementation / Mise en œuvre du SMDSM / Implementación SMDSM	Status / Statut / Estado	Notes / Notes / Notas
Master plan / Plan cadre / Plan principal	NO	
A1 area / Zone A1 / Zona A1	YES	
A2 area / Zone A2 / Zona A2	Unknown	
A3 area / Zone A3 / Zona A3	Unknown	
NAVTEX / NAVTEX / NAVTEX	YES	
Safety NET / Safety NET / Safety NET	Unknown	



Suriname (B)

Nautical charting / Cartographie marine / Cartografía náutica

Coverage of charts published / Couverture des cartes publiées / Cobertura de cartas publicadas	Offshore passage / Navigation au large / Pasaje offshore	Landfall and Coastal passage / Interrogage et navigation côtiers / Recalada y Pasaje costero	Approaches and Ports / Approches et ports / Aproches y puertos
Covered by INT or other paper charts meeting S-61 / Couvert par des cartes papier INT ou autres conformes S-61 / Cubiertas por cartas de papel INT o otras cumpliendo S-61	50	50	100
Covered by RNC meeting S-61 / Couvert par des RNC conformes S-61 / Cubiertas por RNC cumpliendo S-61	0	0	0
Covered by ENC meeting S-57 / Couvert par des ENC conformes S-57 / Cubiertas por ENC cumpliendo S-57	0	50	0
	INT RNC ENC	INT RNC ENC	INT RNC ENC

Paper charts showing depth in meters / Cartes papier avec les profondeurs en mètres / Cartas de papel con profundidades en metros: 100 %

Paper charts referenced to a satellite datum / Cartes papier rapportées à un système géodésique satellite / Cartas de papel referidas a un datum satelital: 42 %

Data source / Source des données / Origen de los datos

Notes / Notes / Notas

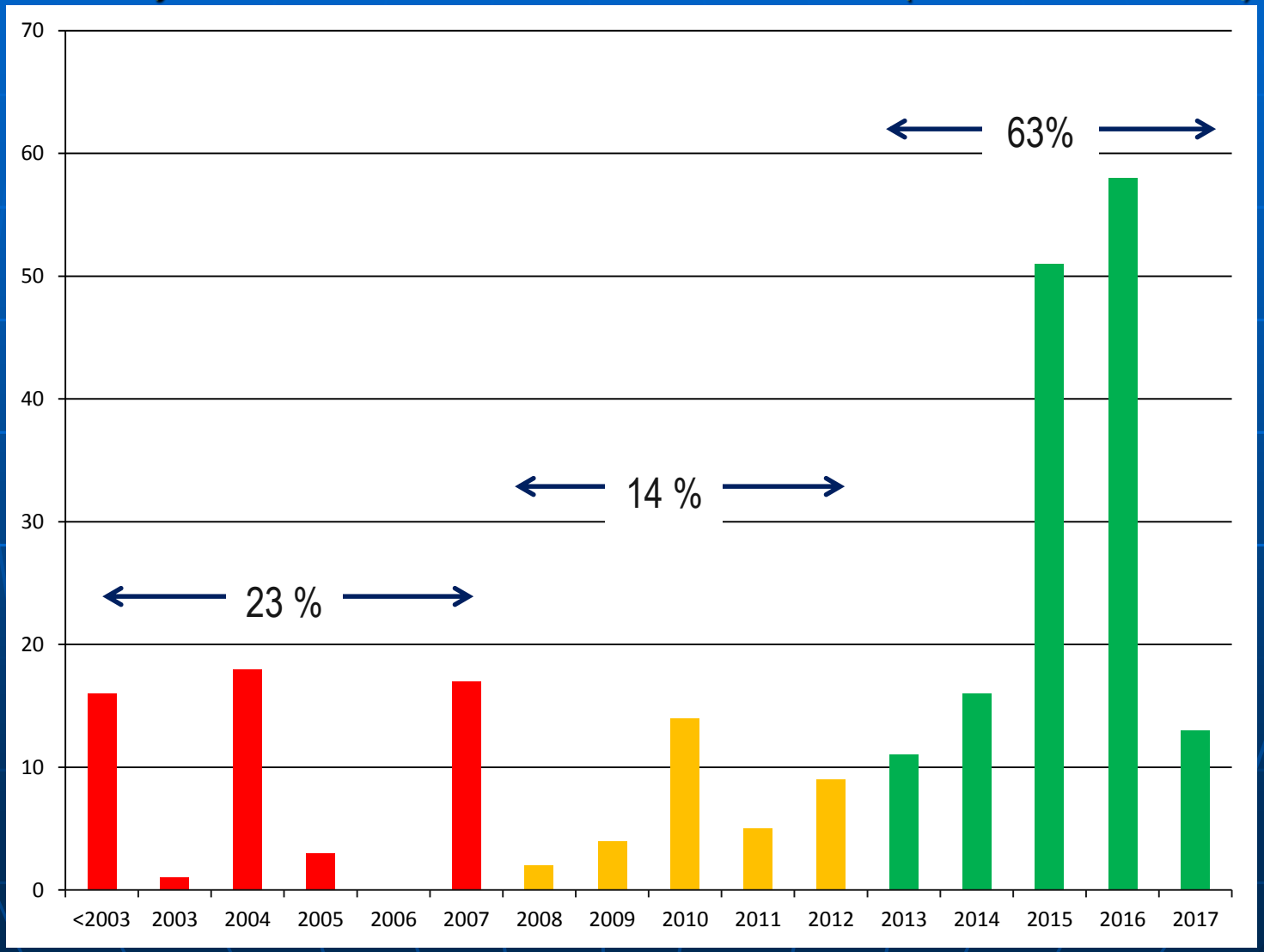
Maritime Safety Information / Renseignements sur la sécurité maritime / Información sobre seguridad marítima

Navigational information / Information nautique / Información náutica	Status / Statut / Estado	Notes / Notes / Notas
Local warnings / Avertissements locaux / Avisos locales	YES	
Coastal warnings / Avertissements côtiers / Avisos costeros	Partial	
NAVAREA warnings / Avertissements NAVAREA / Avisos NAVAREA	YES	Submitted to NGA
Information on ports and harbours / Information sur les ports et cadres / Información sobre puertos	YES	Nautical accessibilities (shipping notices)

Last update / Mise à jour / Actualización: 07/03/2017

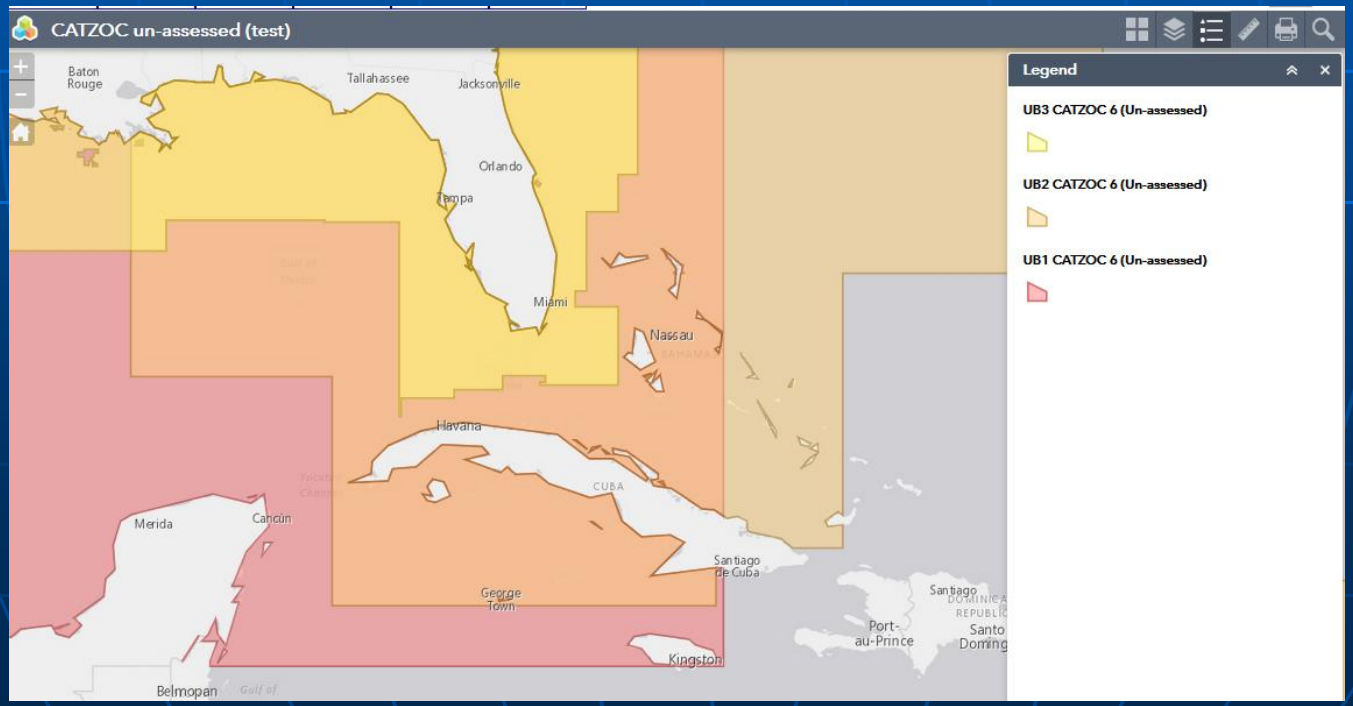
IHO Country Information Database

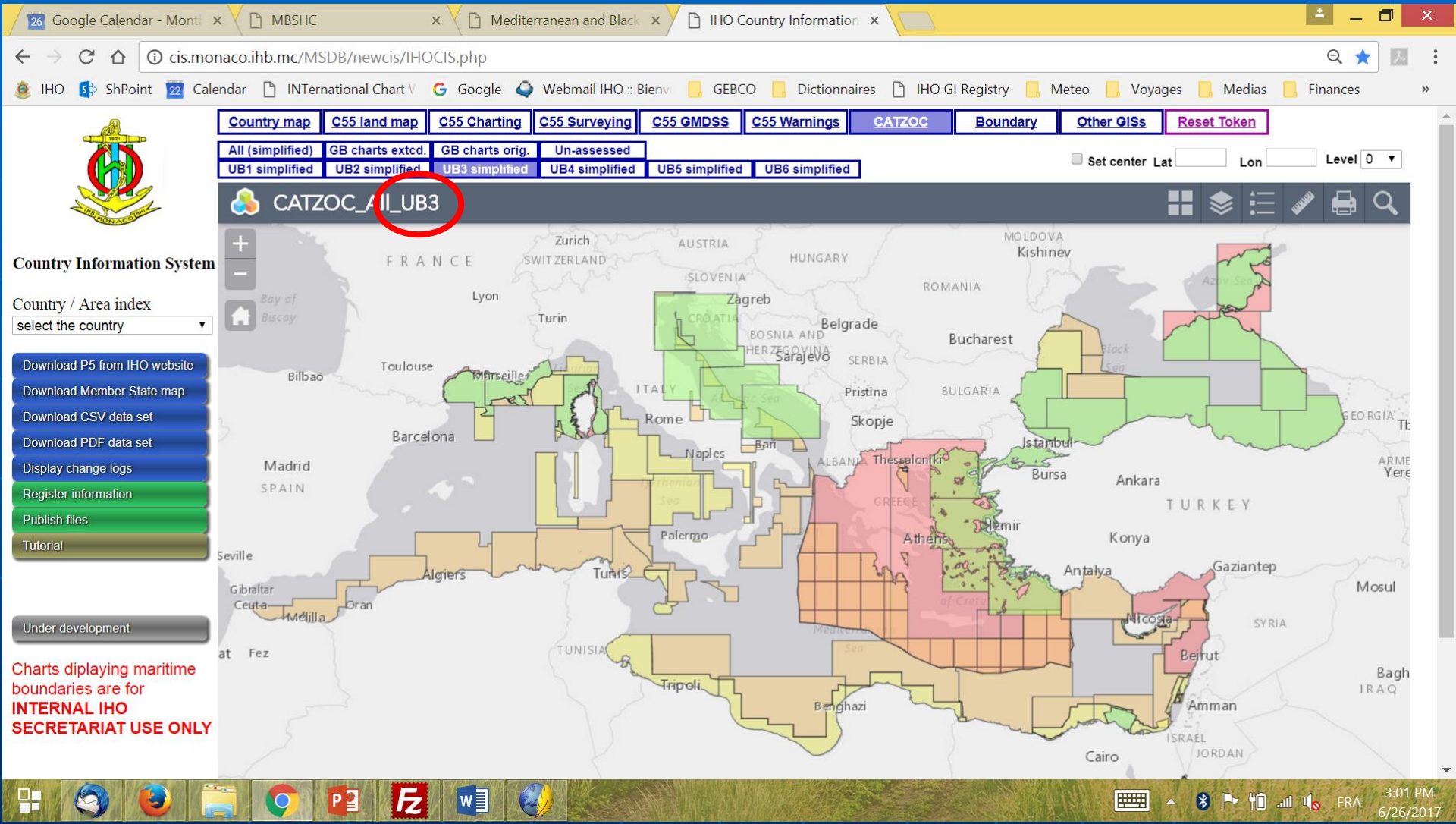
- Currency of the information available in C-55 *(number of areas)*



IHO Regional Information Database

- On-going development of GIS outputs derived from C-55 data (for internal use of the Secretariat)
- Use of composite CATZOC reports to brief RHC meetings: subject to the approval of RENC members (see action WENDWG7/09)




Google Calendar - Mont
MBSHC
Mediterranean and Black
IHO Country Information
cis.monaco.ihb.mc/MSDB/newcis/IHOCIS.php
IHO
ShPoint
Calendar
INTernational Chart V
Google
Webmail IHO :: Bienv
GEBCO
Dictionnaires
IHO GI Registry
Meteo
Voyages
Medias
Finances
Country map
C55 land map
C55 Charting
C55 Surveying
C55 GMDSS
C55 Warnings
CATZOC
Boundary
Other GISs
Reset Token
All (simplified)
GB charts extcd.
GB charts orig.
Un-assessed
UB1 simplified
UB2 simplified
UB3 simplified
UB4 simplified
UB5 simplified
UB6 simplified
Set center Lat
Lon
Level 0
CATZOC_All_UB3
Country Information System
Country / Area index
select the country
Download P5 from IHO website
Download Member State map
Download CSV data set
Download PDF data set
Display change logs
Register information
Publish files
Tutorial
Under development
Charts diplaying maritime boundaries are for
INTERNAL IHO SECRETARIAT USE ONLY
FRANCE
SWITZERLAND
AUSTRIA
SLOVENIA
HUNGARY
ROMANIA
MOLDOVA
Kishinev
Zurich
Lyon
Turin
Zagreb
Belgrade
Bucharest
Sarajevo
Pristina
Skopje
Rome
Naples
Bari
Barcelona
Madrid
SPAIN
Bilbao
Toulouse
Marseille
ITALY
BULGARIA
Istanbul
Bursa
Ankara
TURKEY
Thessaloniki
Athens
Izmir
Konya
Antalya
Gaziantep
Mosul
Palermo
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Gibraltar
Ceuta
Melilla
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Google Calendar - Monti | MBSHC | Mediterranean and Black | IHO Country Information

cis.monaco.ihb.mc/MSDB/newcis/IHOCIS.php

IHO | ShPoint | Calendar | INTernational Chart V | Google | Webmail IHO :: Bienv | GEBCO | Dictionnaires | IHO GI Registry | Meteo | Voyages | Medias | Finances

Country Information System

Country / Area index

select the country

- Download P5 from IHO website
- Download Member State map
- Download CSV data set
- Download PDF data set
- Display change logs
- Register information
- Publish files
- Tutorial

Under development

Charts diplaying maritime boundaries are for **INTERNAL IHO SECRETARIAT USE ONLY**

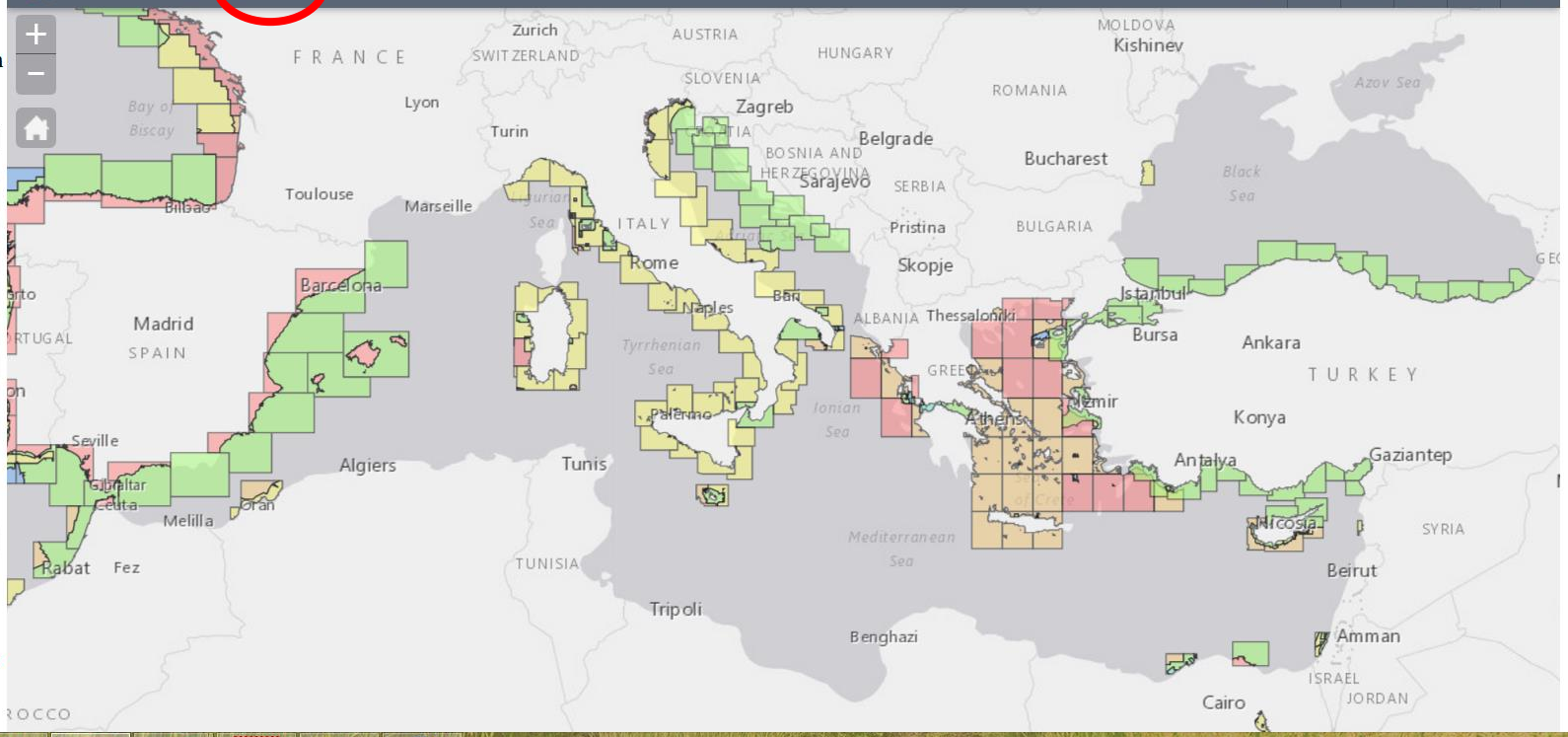
Country map | C55 land map | C55 Charting | C55 Surveying | C55 GMDSS | C55 Warnings | CATZOC | Boundary | Other GISs | Reset Token

All (simplified) | GB charts extcd. | GB charts orig. | Un-assessed

UB1 simplified | UB2 simplified | UB3 simplified | UB4 simplified | UB5 simplified | UB6 simplified

Set center Lat Lon Level 0

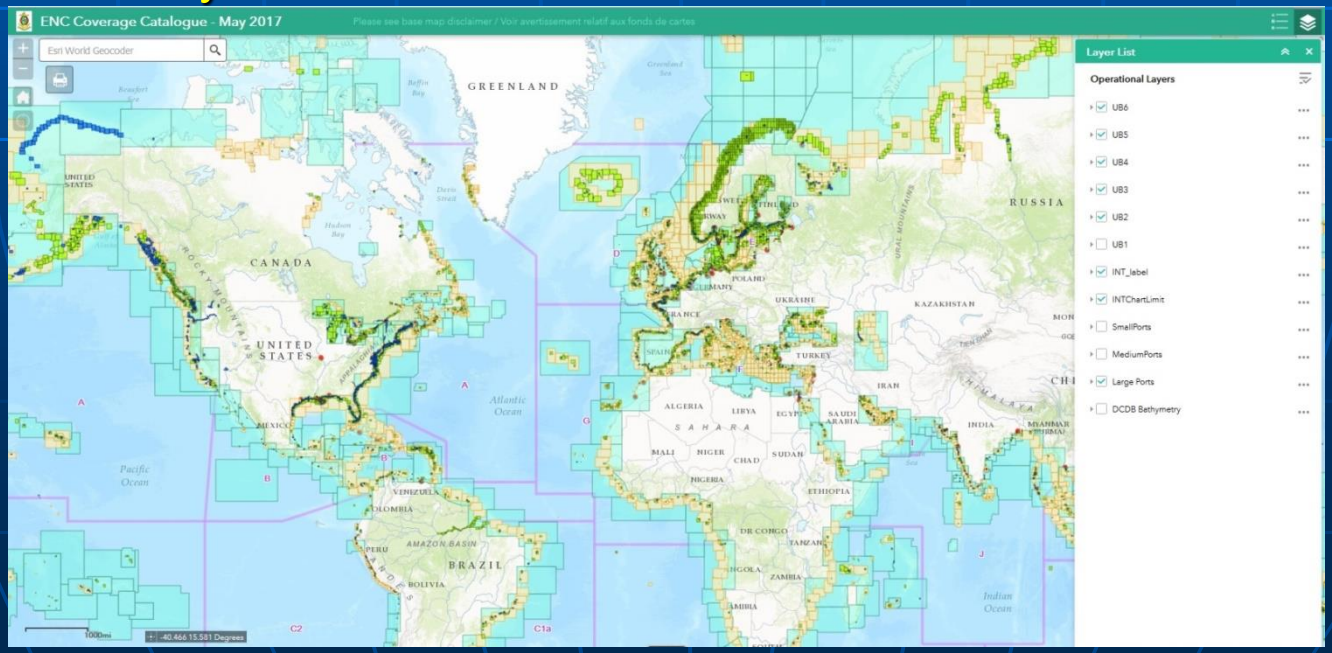
CATZOC_AI_UB4



FRA 3:03 PM 6/26/2017

IHO ENC Coverage Catalogue

- Additional layers
  - Limits of INT Chart Regions
  - Ports (from NGA Pub 150)
  - DCDB Bathymetry
- Work in progress to reflect the availability of ENCs in accordance with the “Diagram of ENC Data Flow Producers-RENCs-Distributors” maintained by the WENDWG

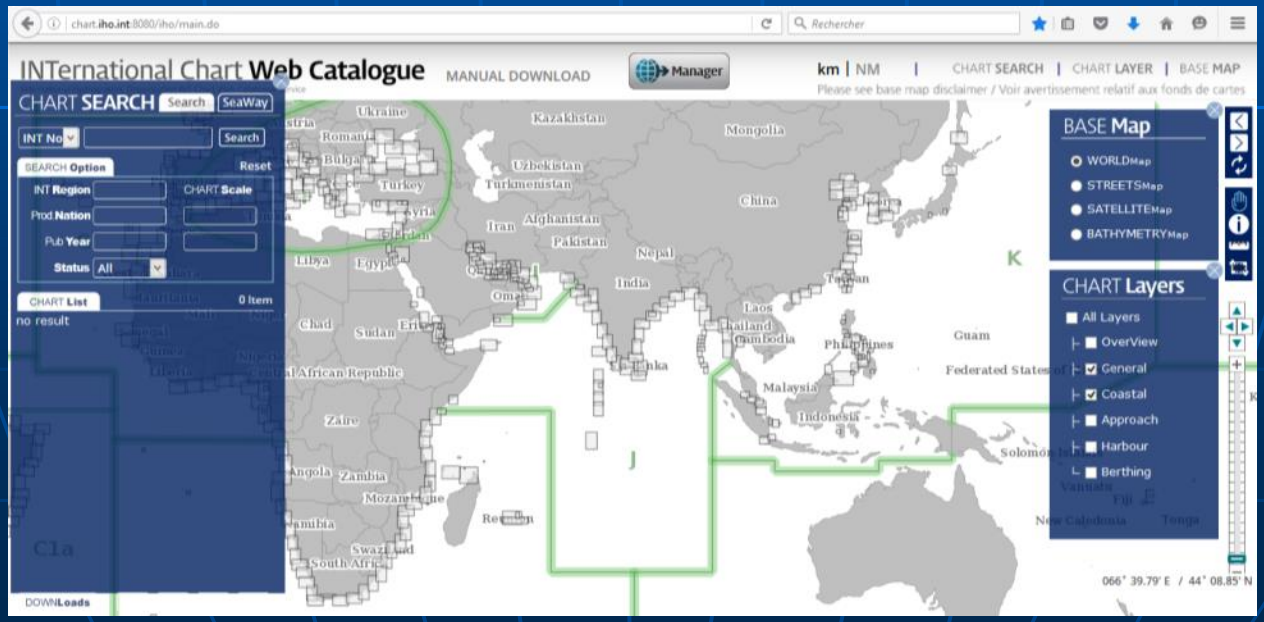


INToGIS

- On-line web-based interactive version of IHO Publication S-11 Part B - *Catalogue of INT Charts* made available in January 2016 (see IHO CL 89/2015)
- The INToGIS application well used in most Charting Regions (excepted Region K – East Asia, and Region C2 – SE Pacific)

Home> Standards & Publications> S-11> Part B (link)

Phase II to be launched from September 2017



On-Line Registration Service for IHO Meetings

- Service used successfully for HSSC-8 and A-1
- Upgrade requirements based on the lessons learned submitted to KHOA for further consideration
- On-line registration is now the preferred mode of registration for the meetings organized by the IHO Secretariat…
- …however, it is up to the Organizer to decide if preference should be given either to the on-line registration or traditional form

Action required of MBSHC

- MBSHC is invited to:
  - Note the report
  - Request RHCs to review entries related to their region in IHO C-55 and P-5 (Yearbook) at least annually;
  - Request RHCs to review entries related to ENC and INT charts (back-ups, national catalogues, etc.) on a regular basis;
  - Consider whether some data available in the Country Information System can be released on case-by-case basis for supporting MBSHC Conferences (CATZOC, etc.)
  - Provide guidance on further development of web-based applications that may be required to support its work;
  - Take any other actions as appropriate