18TH MEETING OF THE IHO-CAPACITY BUILDING SUB-COMMITTEE
IHO CBSC16

ONLINE, 2-3 JUNE 2020

Paper for Consideration by CBSC18

Update of the C-55RPT

Submitted by:	C-55RPT Chair and IHO Secretariat
Executive Summary:	This paper presents the update from the C-55RPT.
Related Documents:	CBSC18-08.3A, CBSC17-08.3B and CBSC16-08.3B

1. Introduction / Background

The IHO Publication C-55 presents the Status of Hydrographic Surveying and Nautical Charting Worldwide. It is updated regularly by Member States and Primary Charting Authorities. The Status of Hydrographic Surveying is reported from Member States or from Primary Charting Authorities in three categories that sum up to 100%:

a) Adequately surveyed

b) Re-survey required

c) Never systematically surveyed

This is done for both shallow waters (less than 200m) and deep waters (more than 200m).

Inconsistencies are observed in C-55 as different methods are used to report. The C-55RPT was established by the CBSC to address these inconsistencies and also to identify the way forward regarding to data quality. In the short term, the CBSC adopted the use of CATZOC as proposed by France and UK (doc. CBSC16-08.3B).

2. Analysis / Discussion

The discussion within the C-55RPT led to the adoption of the following procedure to extract the CATZOC data to input to C-55.

a. Use the EEZ shapefile to determine the overall area.
b. Draw a polygon around the land mass and minus this from the total area to determine the overall territorial and EEZ waters.
c. Create polygons for each depth range, to calculate the overall area of each depth range.
d. Calculate the area of each CATZOC coverage within each depth range.

The process generates a table like in the following example:

	KM^2 Total	KM^2 < 200m	KM^2 > 200m	% <200m	%>200m
Total Area					
Land Mass					
Territorial & EEZ					
CATZOC A1					
CATZOC A2					
CATZOC B					
CATZOC C					
CATZOC D					
CATZOC U					

Observations:

a) The above process will be applied to the database provided by PRIMAR. Any country not present in the database will be kept as a manual entry as currently done.
b) Areas not covered by medium- or large-scale ENCs could be considered as unsurveyed and this is still to be decided.
c) For areas beyond national jurisdiction, a proper definition needs to be established, in conjunction with GEBCO and/or the DCDB

Once the above table is completed, the following table is applied to derive the final input to C-55:

C-55 Status of hydrographic surveying	CATZOC	Comment
Depth < 200m		
A Adequately surveyed	A1 A2 B for depth > 50m	50m threshold adopted by Shom in accordance with the national hydrographic survey scheme. Can be adapted to 40m for consistency with the S-44
B Re-surveyed required	B for depth < 50m C D U	50m threshold, see previous comment. CATZOC C & D & U: limited to systematic surveys only. Ideally, the bathymetric database should not contain surveys without CATZOC (U). However, the CATZOC of some old surveys remains to be defined at the base level. When calculating the C-55 indicator, surveys without CATZOC (U) of significant area are analyzed and assigned a CATZOC.
C Never systematically surveyed		All that is not C-55 A or B.
Depth > 200m		
A Adequately surveyed	(A1) (A2) B C	The database should not contain qualified CATZOC A1 or A2 surveys in this depth range. CATZOC C: limited to systematic surveys only
B Re-surveyed required	D U	CATZOC D & U: limited to systematic surveys only See also previous comment about CATZOC U.
C Never systematically surveyed		All that is not C-55 A or B.

3. Action Requested of CBSC

CBSC is invited to:

- **Note** this report,
- **Endorse** the proposed process to derive the input to C-55 from CATZOC,
- **Take any actions** as considered appropriate.