

## 12<sup>th</sup> Southern Africa and Islands Hydrographic Commission (SAIHC) Meeting

Dar-es-Salaam (22- 23 September 2015)

### C-55 - Status of Hydrographic Surveying and Charting in SAIHC

**Submitted by:**

IHB

**Executive Summary:**

This report provides information about the continuing improvement of IHO Publication C-55 - *Status of Hydrographic Surveying and Charting Worldwide* and associated initiatives and seeks updated information from each country represented in the region.

#### Introduction

1. IHO publication C-55 is intended to provide information that will help governments and supporting international organizations to prioritize their national hydrographic requirements including meeting the international obligations set out in Chapter V, Regulation 9, of the Safety of Life at Sea (SOLAS) Convention regarding the provision of nautical charting services.
2. Currently information in C-55 is divided into the following main categories: *Surveys, Nautical Charts, Marine Safety Information (MSI)* and *Global Maritime Distress and Safety System (GMDSS)*.
3. Each category is further subdivided into more specific categories (fields) such as *passage chart, coastal charts* and *port charts*. With the exception of the *Surveys* category, which uses the 200 metre depth area as an approximate spatial extent, none of the other information fields provide any spatial context (other than being located in a certain country or RHC area). This is a limitation that the IHB is attempting to address.
4. CATZOC (Category of zone of confidence) coverage information extracted from ENCs, has the potential to provide a spatial quality indicator for the C-55 categories *Surveys* and *Nautical Chart*.
5. The provision of relevant CATZOC information was discussed at the 7<sup>th</sup> IRCC meeting in Mexico in June where it was agreed to; “*seek the consent of member HOs and others that distribute their ENCs through a RENC, to provide CATZOC information to the IHB on their behalf for inclusion in the IHO Publication C-55*” and “*report the results of their consultations with their members to provide CATZOC information to the IHB as soon as permission is received*”.
6. The IHB issued Circular Letter 52/2015 requesting Member States to make CATZOC information available either directly or via their RENC organizations to the IHB for use in C-55. Figure 1 shows how CATZOC information can provide an indication of the underlying quality of information in INT chart area H.

#### Other GIS Layers

7. The IHB is assembling other GIS (resources) layers that will be useful to enhance the existing information in C-55. These include:
  - The ENC catalogue - which provides ENC data coverage information for all six usage bands.
  - The INTtoGIS project (due to be completed in January 2016). This will contain INT chart coverage information extracted from IHO publication S-11 Part B. (This will be available as an online resource).
  - The World port information database – containing port information.
  - Shipping traffic density information.
  - The IHO Country information database – containing contact and resource information for each Member State and non-Member coastal State.

These resources will be used to provide web map service layers, and for analysis purposes.

8. Figure 1 below shows INT Chart limits, overlaid on CATZOC areas B, C and D. Their classifications (as defined in S-57) are;

- CATZOC B (blue) - areas covered by controlled, systematic survey to standard accuracy
  - CATZOC C (orange) - low accuracy survey or data collected on an opportunity basis such as soundings on passage
  - CATZOC D - poor quality data or data that cannot be quality assessed due to lack of information
- Areas where no CATZOC is available are shown as white

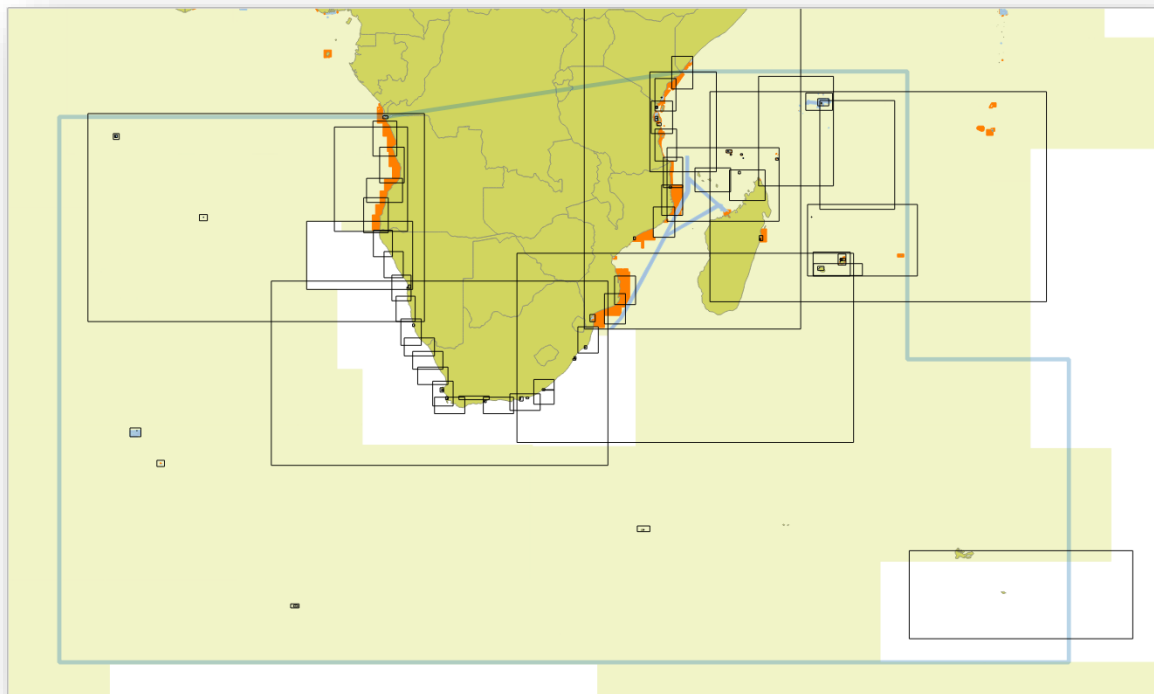


Figure 1 - INT Chart limits (Area H) overlaid on CATZOC data.

#### Action Requested of SAIHC Members

1. **Note** this report;
2. **Confirm** that the published C-55 information shown in the supplement to this report (SAIHC12-5.4 Supp) is correct and provide updated information where it is not correct.
3. **Provide** CATZOC information, (or provide permission for RENCs to provide CATZOC information) to the IHB for use in C-55 as a quality indication. (See CL 52/2015).