

1st meeting of the S-100 Working Group (S-100WG)

Tokyo, Japan (17-18 March 2016)

Paper for consideration by S-100 WG**Establishment of the Under Keel Clearance Maintenance and Maritime Limits and Boundaries Project Teams**

Submitted by:	IHB
Executive Summary:	In accordance with the new structure for HSSC Working Groups, the 7 th HSSC meeting approved the formation of Project Teams to develop Product Specifications for Undersea Keel Clearance Management and Maritime Limits and Boundaries (S-121). This paper invites the S-100WG to establish the Project Teams and instruct them as appropriate.
Related Documents:	Consolidated HSSC Work Plan 2016-17 (Version 5 January 2016) S-100 - IHO Universal Hydrographic Data Model
Related Projects:	Draft S-101 - Electronic Navigational Chart (ENC) Product Specification, and associated Data Classification and Encoding Guide.

1 Introduction/Background

At the 7th HSSC Meeting (Busan, Republic of Korea, 10-13 Nov 2015), Australia submitted a proposal to develop an S-100 based “*Under Keel Clearance Management Information*” Product Specification (PS) (ref paper HSSC7-05.1D). The proposal was agreed and Terms of Reference and Rules of Procedure (TOR) were drafted and approved. The TOR are included at Annex A. This resulted in the following HSSC7 actions:

- HSSC7/09 S-100WG to set up a project team for developing a product specification for under keel clearance management information
- HSSC7/10 IHB to issue a CL inviting IHO MS and Expert Contributors to participate in the Under Keel Clearance Management Information Project Team (UKCM PT) created at HSSC-7, and provide support to the S-100WG accordingly.

At its 5th meeting in 2013, the HSSC had endorsed the development of S-121 - *Maritime Limits and Boundaries Product Specification* as an IHO product specification based on S-100 and agreed that Geoscience Australia would be responsible for developing and maintaining the product specification on behalf of the IHO. Since that time Canada has joined Australia in the S-121 development programme. Canada reported at HSSC-7 that Australia and Canada had worked together in producing the draft S-121 PS, providing a possible official digital exchange format, recognized by the United Nations, and supporting MSDI requirements (ref. HSSC7-06.1B INF2). The Committee noted that further work was required and invited Canada to submit a paper for the creation of an S-121 project team to the next S-100WG meeting. Draft TOR for this PT are available at Annex B. The Committee invited also the members to consider the possibility of providing some support to this task. This resulted in the following HSSC7 action:

- HSSC7/31 IHB to issue a CL inviting IHO Member States to support the development of S-121 product specification within a project team under the S-100WG.

2 Analysis/Discussion

IHO Circular Letter 84/2015 invited Member States, Observer Organizations and Expert Contributors to consider participating in the new project teams and to propose candidates for office bearer (Chair, Vice-Chair, Secretary). As at 16 February 2016, the following nominations have been received.

The only nominations for office bearers for the UKCM PT are: Australia - Nick Lemon (Chair), Alec Millett (Vice-Chair).

Other nominations are: Korea (Rep of) (KMOU), Dr Seojeong Lee, Sweden - Caroline Johansson, USA (NOAA) - Micah Wengren, USA (NGA) – Casie Carrott, Russian Federation - Sergey Egorov, OMC International - Chris Hens, KRISO - Sewong Oh and Finland - Stefan Engström.

The only nominations for office bearers for the S-121 PT are; Australia - Mark Alcock (Chair), Canada – Sébastien Durand (Vice-Chair).

Other nominations are: France– Dominique Carval, Belgium - Karolyn Hondeghem, Sweden - Lars Jakobsson, USA (NOAA) – Tare Wallace, USA (NOAA) – Meredith Westington, USA (SPAWAR) – Robert Greer, USA (NGA) Jimmy Nerantzis, Russian Federation – Sergey Egorov, Greece - Christos Kastrisios and Japan - Shingo Samejima.

A repository of documents has been allocated to each Project Team and can be accessed from the S-100 WG page of the IHO website (Home > Committees & WG > HSSC > S-100WG / Project Teams).

3 Recommendations

It is recommended that the S-100 WG approves the nominations for Chair and Vice-Chair of the UKCMPT and invites the PT to commence its work in accordance with the work plan agreed by the HSSC. The PT should be requested to provide a progress report to the next S-100WG meeting.

It is recommended that the S-100 WG reviews and agrees the S-121 TOR and work plan, approves the nomination for Chair and Vice-Chair of the PT, and invite the PT to commence its work. The PT should be requested to provide a progress report to the next S-100WG meeting.

5 Actions Requested

The S-100WG is invited to:

- approve the nominations for Chair and Vice-Chair for both PTs;
- review and agree the S-121 TOR and work plan;
- instruct both PTs to commence their work as directed by their TOR and in accordance with their work plans.
- instruct both PTs to provide a progress report to the next S-100 WG meeting;
- take any actions considered necessary.

**PROJECT TEAM TO DEVELOP AN S-100 PRODUCT SPECIFICATION FOR UNDER
KEEL CLEARANCE MANAGEMENT (UKCM) INFORMATION (UKCM PT)**

Terms of reference and rules of procedure

Reference: 7th HSSC Meeting (Busan, Republic of Korea, 9 to 13 November 2015)

1. Objective

To develop an IHO S-100 based product specification for Under Keel Clearance Management (UKCM) information to enable the outputs of UKCM services to be displayed for users.

2. Authority

This Project Team (UKCM PT) is a subsidiary of the S-100 Working Group (S-100 WG). Its work will be guided by the 2016-18 Work Plan established by the S-100 WG and subject to its approval.

3. Composition and Chair

- a) The Project Team (UKCM PT) shall comprise representatives of IHO Member States (MS), Expert Contributors (EC) and observers from accredited NIOs. The IHO Secretariat may also be represented. 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 UKCM PT. ECs shall seek approval of their membership from the Chair of the UKCM PT.
- c) EC membership may be withdrawn, in the event that a majority of UKCM PT members agree that an EC's continued participation is either irrelevant or not constructive to the work of the UKCM PT.
- d) The Chair of the UKCM PT is designated by the parent body.
- e) If a Secretary is required, he/she should normally be drawn from a member of the UKCM PT.

4. Procedures

- a) The UKCM PT should work primarily by written correspondence and teleconferences.
- b) Decisions should be made by consensus. Dissenting opinions, if any, should be reflected in the UKCM PT report.
- c) The UKCM PT should liaise with other IHO bodies, international organizations, end users and industry to ensure the relevance and currency of its work.
- d) The UKCM PT should report to the S-100WG in accordance with its Work Plan.

S-121 PROJECT TEAM (S-121PT)**Draft Terms of reference and Rules of Procedure****1. Objective**

To develop IHO S-121 Maritime Limits and Boundaries Product Specification. The product specification should take into account the following:

- i) Defining a proposed data model
- ii) Create an S-100 conformant product specification for Maritime Limits and Boundaries to support Law of the Sea Submissions.
- iii) Determine if S-100 needs to be extended to support Law of the Sea issues.

2. Authority

This Project Team (S-121PT) is a subsidiary of the S-100 Working Group (S-100 WG). Its work will be guided by the 2016-18 Work Plan established by the S-100 WG and subject to its approval.

3. Composition and Chair

- a) The Project Team (S-121PT) shall comprise representatives of IHO Member States (MS), Expert Contributors (EC) and observers from accredited NGIOs. The IHO Secretariat may also be represented. 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 S-121PT. ECs shall seek approval of their membership from the Chair of the S-121PT.
- c) EC membership may be withdrawn, in the event that a majority of S-121PT members agree that an EC's continued participation is either irrelevant or not constructive to the work of the S-121PT.
- d) The Chair of the S-121PT is designated by the parent body.
- e) If a Secretary is required, he/she should normally be drawn from a member of the S-121PT.

4. Procedures

- a) The S-121PT should work primarily by written correspondence and teleconferences.
- b) Decisions should be made by consensus. Dissenting opinions, if any, should be reflected in the S-121PT report.
- c) The S-121PT should liaise with other IHO bodies, international organizations, end users and industry to ensure the relevance and currency of its work.