

6<sup>TH</sup> MEETING OF THE HYDROGRAPHIC SERVICES AND STANDARDS COMMITTEE

Viña del Mar, Chile (11-14 November 2014)

Paper for Consideration by HSSC

## ISO activities affecting HSSC

<b>Submitted by:</b>	IHB
<b>Executive Summary:</b>	The IHO is a class A liaison member of the ISO Technical Committee 211 (ISO/TC211), and has contributed towards the development of the 19100 series of standards and technical specifications which have been used for the development of the IHO S-100 Standard and GII Registry.
<b>Related Documents:</b>	S-100 and all dependent product specifications.
<b>Related Projects:</b>	TSMAD, SNPWG, TWLWG, SCWG, MSDIWG and DQWG

**Introduction / Background**

The IHO is a class A liaison member of the ISO Technical Committee 211 (ISO/TC211) and has contributed towards the development of the 19100 series of standards and technical specifications. These ISO standards have been used for the development of the S-100 Universal Data Model, the IHO GII Registry and S-10X product specifications currently under development. Since the last HSSC meeting (5-8 November 2013), the IHO participated in the 37<sup>th</sup> and 38<sup>th</sup> ISO/TC211 plenary and working group meetings which took place in Redlands, USA (2-6 November 2013) and Berlin, Germany (2-6 June 2014) respectively. This document reports on developments relevant to HSSC.

**Analysis / Discussion**

The following new projects (NP) which will be of interest to the TSMADWG have been registered:

NP 19157-2, Geographic information – Data Quality – XML Schema Implementation of ISO 19157 (this will be of interest to the DQWG).

NP 19159-2, Geographic information – Calibration and validation of remote sensing imagery sensors – Part 2: Lidar.

The following existing standards / technical specifications are undergoing systematic reviews to ensure that they remain relevant:

- 19107:2003 Geographic information – Spatial schema
- 19127:2005 Geographic information – Geodetic codes and parameters
- 19130:2010 Geographic information – Imagery sensor models for geopositioning
- 19139:2007 Geographic information – Metadata – XML schema implementation

ISO TC 211 has initiated a preliminary new work item for the development of a technical report on geodetic references (to be published as document 19161). The document will cover topics such as geodetic datums, terrestrial reference systems and frames, geodetic ellipsoids, coordinate systems used for geo-referencing, map projections, gravity and geoid (gravity models, geoidal models), vertical reference systems and geodetic networks. The IHB has provided input on geodetic references for hydrography.

The 19100 standards and specifications are described using the Universal Modelling Language (UML), and the TC maintains a repository of harmonized UML models for each of the standards. These are maintained by the Harmonized Model Management Group (HMMG) and can be downloaded from the ISO/TC211 web site ([www.isotc211.org](http://www.isotc211.org)).

The TC also carries ad hoc tasks and studies via the formation of short duration working groups. An ad hoc working group has produced a report on "Metadata Management" which was presented at the 38<sup>th</sup> plenary meeting. A second ad hoc working group is compiling a report on "Best practices for UML modelling in ISO/TC 211." This report is to be presented to the 39<sup>th</sup> plenary meeting.

Together with the IHO and the Open Geospatial Consortium (OGC), ISO/TC211 have worked collaboratively in support of decision 3/106 of the United Nations Committee of Experts on Global Geospatial Information Management (UN-GGIM) to produce a "A Guide to the Role of Standards in Geospatial Information Management". ISO/TC 211 has established a task force to liaise with the IHO and OGC in order to draft this guide. The guide and its companion document are available from the MSDIWG page of the IHO website ([www.iho.int](http://www.iho.int) > Committees & WG > HSSC > MSDIWG) under "Miscellaneous".

"Standards in Action" workshops were held during the past two ISO/TC211 meetings during which presentations were provided on subjects such as; "Experiences with INSPIRE data and services" ; "Implementation of guidelines for Africa Mapping agencies"; "An Open-Source Registry Management Tool for the ISO Registry of Geodetic Codes & Parameters" and "Service modelling with ISO 19119".

The ISO Central Secretariat, which is responsible for setting the standards development procedures, has introduced new procedures aimed at improving the efficiency of the standards development process. Under the new guidelines, Committee Drafts (CD) ballots should take no longer than two months to complete, and Final Draft International Standards (FDIS) ballots will only be initiated when an editing committee, (in cooperation with the Technical Committee chair and secretariat), decide that an FDIS ballot is required.

Further information on the ISO/TC211 activities and associated working documents are available from the ISO/TC211 web site at <http://www.isotc211.org/>

## **Conclusions**

The IHB will continue to monitor and participate in the ISO/TC211 standards development work and report on relevant activities to IHO working groups and committees. IHO Member States are encouraged to liaise with their national standardization bodies to ensure that the IHO standards activities are understood and taken into account as appropriate at the national level.

## **Recommendations**

This paper is for information only; no action is required.

## **Action Required of HSSC**

The HSSC is invited to:

- a. note the paper, and
- b. agree that the IHB continues to monitor these activities.