

**Paper for Consideration by the  
Joint TSMAD26 and DIPWG5 Meeting.**  
Silver Spring, Maryland, USA (10-14 June 2013)

**Report from the Surface Current Working Group**

|                           |  |
|---------------------------|--|
| <b>Submitted by:</b>      | SCWG Report  |
| <b>Executive Summary:</b> | Report on the activities of the SCWG and discussion / outcomes of the last meeting that took place in Silver Spring, Maryland, USA from the 29 <sup>th</sup> to 31 <sup>st</sup> May 2013. |
| <b>Related Documents:</b> | ?  |
| <b>Related Projects:</b>  | S-101, S-102, and e-Navigation   |

### **Introduction / Background**

The Surface Current Working Group held its 1<sup>st</sup> meeting in Silver Spring, Maryland, USA from the 29<sup>th</sup> to the 31<sup>st</sup> of May 2013. Please include some domestic info about office bearers here. Brief mention of some of the important issues ....

SCWG discussed how surface current information could be provided such that it could be used in ECDIS. The meeting discussed the production of a separate surface product specification that could be used as an additional information layer. It concluded that a bathymetric grid or triangulated irregular network TIN surface, based high resolution survey data would better suite the requirement. This would allow current variations (based on a tidal modal) to be applied to the data encoded in the grid/TIN. These values could be used to generate a time variable layer display directions and rates. The proposed scope for the product is copied below.

### *Proposed Scope for Dynamic Surface Currents in ECDIS*

#### Basic Outline Scope and Requirement

*Generate a time variable layer which displays the surface current on an ENC in an ECDIS.*

*Rate variability should be based on the available gridded bathymetric surface or triangulated irregular network (TIN) surface, with surface current predictions or near real-time observations, generated from single point, simple zone model, complex zone model or co-tidal models. Also it should be based on forecast meteorological surge where these are available.*

*The display should be capable of showing predicted surface currents for voyage planning and near real-time surface currents for voyage execution.*

*The metadata associated with the display should be available with the delivered surface current data.*

*Deliver this information with an ENC, or make it available to be applied to an ENC in an ECDIS.*

### **Analysis/Discussion**

An analysis and/or discussion of the issues involved.

In analysing the issues, the following should be considered and addressed as appropriate:

- is the subject addressed by the paper within the scope of IHO objectives?
- is the subject of the paper within the scope of an item of the current IHO work programme?
- do adequate industry standards exist?
- do the benefits justify the proposed action?
- are there any potential cost impacts on the maritime industry, Member States or other involved parties?

**Conclusions**

Any conclusions that may be drawn from the analysis/discussion.

**Recommendations**

Any resultant recommendations.

**Justification and Impacts**

Justification for any proposed action or recommendations. This should include:

- identifying the benefits which would accrue from any proposed action;
- identifying any resource implications resulting from the recommendations, such as the number of working group sessions, expertise, need for expert consultants, funding, et cetera;
- identifying which HSSC working group(s) are essential to completing any proposed new work items; and
- the date when any proposed new work item is expected to be completed;
- the proposed priority (high, medium, low);
- any related activities that may impact on a proposed work item or decision.

**Action Required of TSMAD**

The TSMAD is invited to:

- a. endorse .....
  - b. agree .....
  - c. note .....
- et cetera.