



Hydrographic Services and Standards Committee

Proposal

to

HSSC-4, September 2012

New Work Item for a Surface Current Product
Specification

Proposal Objective

- ✦ To develop a layered Product Specification for navigationally significant surface currents (e.g. depth 0-10m that impact navigation) designed to work with S-101 Electronic Navigational Charts or stand alone.



Background

- ✦ Surface current information for tactical optimization of navigational decision-making
- ✦ Valuable contribution to e-navigation
- ✦ Complimentary to S-102 dynamic waterlevels
- ✦ CHS has undertaken preliminary work (current model development, etc.)



Proposed implementation



- ✦ To be represented as vector gridded coverage
- ✦ With orientation and intensity references at each grid point



Proposed Implementation Continued

- ✦ Flexible in a gridded fashion to be tiled as required for given coverage
- ✦ Uncertainty factor may be included for each grid point for intensity and direction.
- ✦ Meta-data compliant with S-100/ISO 19115



Action required of HSSC

- ✦ Note this initiative to include surface currents dynamically in navigational system
- ✦ Assign the development of a S-10x Product Specification as a work Item to TSMAD

