

SCWG

Item 4.1

Surface Current Product Spec

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TWLWG7

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Plan

- Introduction
- Chronology
- User's survey
- Draft spec status
- Issues still to be discussed



Introduction

- To develop standards for the delivery and presentation of navigationally significant surface current information.
- Top 25 meters

Chronology

- Information paper by Canada (CHS)
- Idon Technology draft spec (Doug O'brien)
- Creation of SCWG
- SCWG1 (Where are we going...)
- SCWG2 (Some earlywork being done...)
- SCWG3 (Time to refine and discuss...)
- Creation of TWCWG

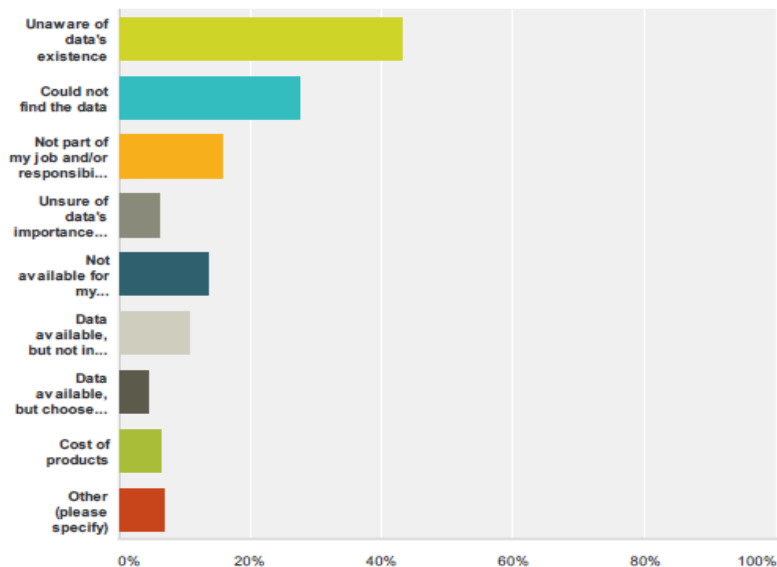
User's survey main messages

(commercial, recreational, pilots, route planners, HO's experts...)

Surface Currents User Survey

Q7 Select your reason(s) for not using surface currents data.

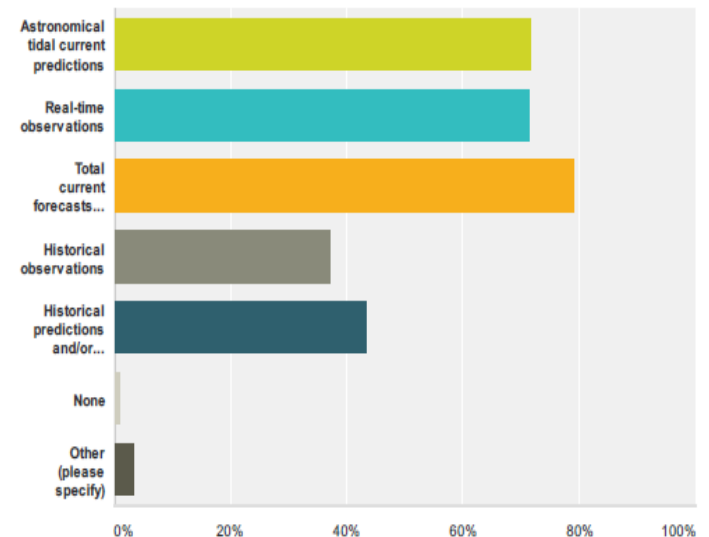
Answered: 290 Skipped: 1,111



Surface Currents User Survey

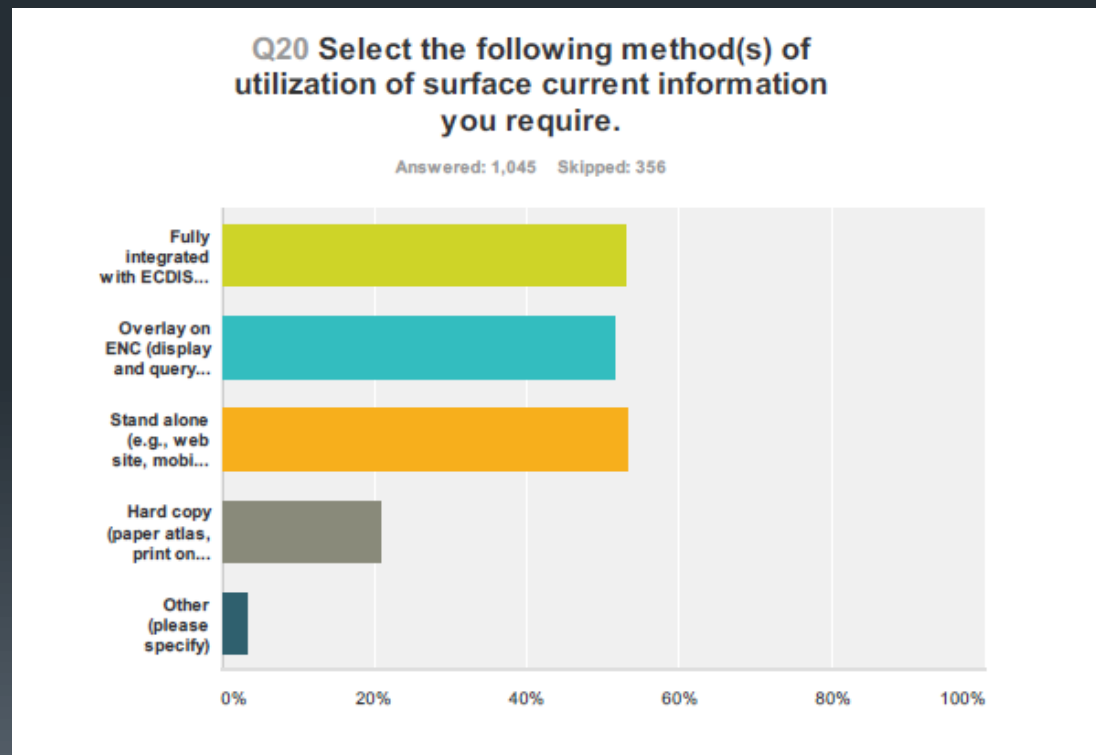
Q10 Select the type(s) of surface current data that you have used or would use.

Answered: 1,117 Skipped: 284



User's survey main messages

(commercial, recreational, pilots, route planners, HO's experts...)



User's survey main messages

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Figure 1. Current vectors at grid points.

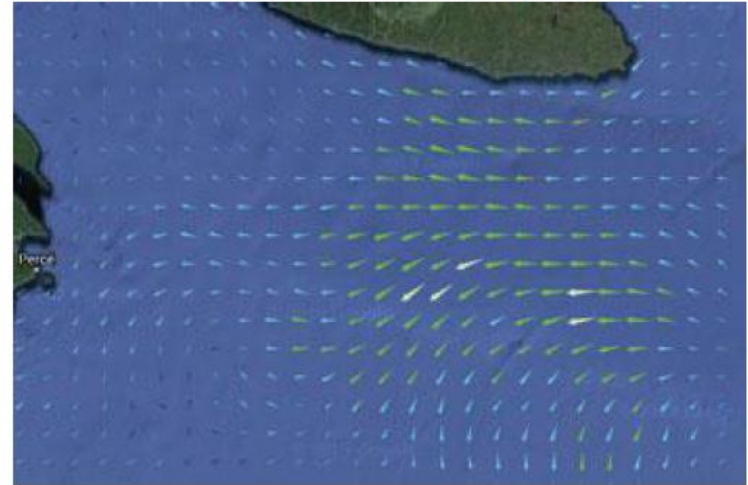
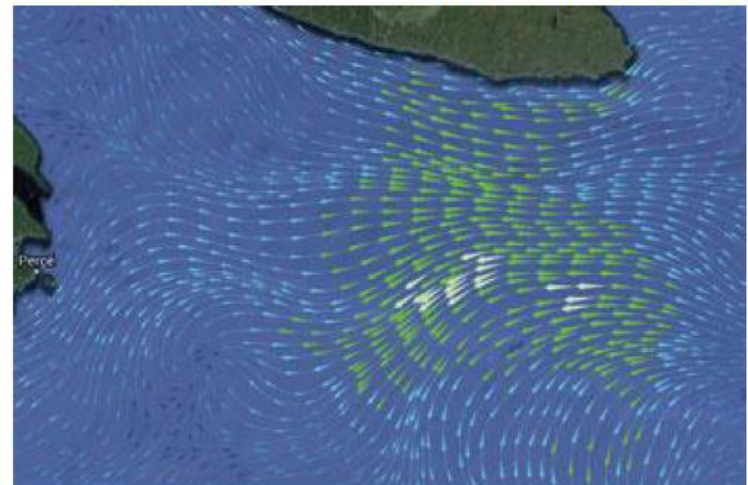


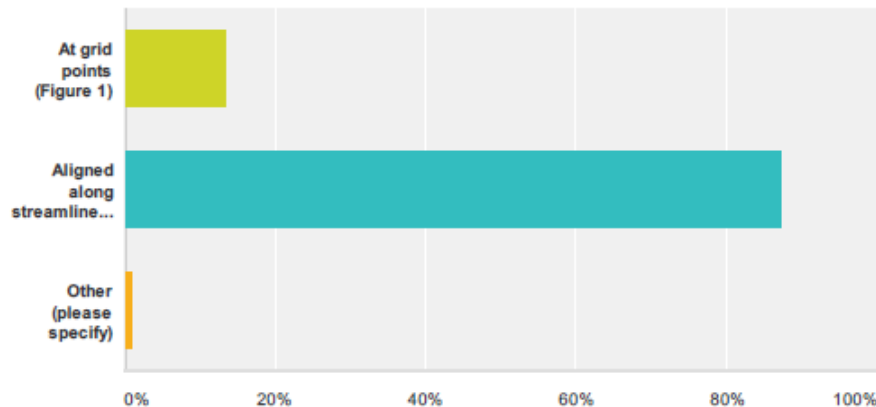
Figure 2. Current vectors aligned along streamlines.



Surface Currents User Survey

Q19 Which visualization(s) for surface current vectors do you prefer?

Answered: 1,050 Skipped: 351



Draft Spec status

- Draft version 1.4(many comments integrated)
- Conversion to S-100 template (version 1.5)
- Prediction,forecast,observation supported
- Gridded and point data supported
- HFD5 encoding
- Arrows on grid points (streamline to follow)



Issues still to be discussed/tested

- 3D currents vs average current (vertical reference)
- Uncertainty
- Historical vs real-time
- Gridded vs single point(1x1 array)
- Delivery...
- Interaction with other S-100 layers
- Liaise with industry
- ...