



16th Meeting of the Hydrographic Services and Standards Committee

Proposal by Canada

Canadian S-100 Sea Trial Area

Agenda Item HSSC16-05.1H

HSSC-16, Tokyo, Japan, 27 – 31 May 2024



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INTRODUCTION

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International Designated Area

Canada's proposal for an international designated area for crucial tests is aimed at testing and validating the S-100 suite in real-world scenarios, to ensure that it meets the required standards and specifications.

S-100 Sea Trial Area

The St-Lawrence River in Québec, Canada, is proposed for a S-100 sea trial area for 2025 due to its diverse conditions and high traffic, providing an ideal testing ground for the S-100 route monitoring layers.



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ANALYSIS/DISCUSSION

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The successful implementation of the S-100 suite requires a collaborative effort from various stakeholders, including government agencies, industry players, and standardization bodies.

The trial aims to test real-world scenarios to assess how the systems portray different datasets in an integrated fashion. It will also test all operational versions of S-100 route monitoring layers in preparation for the official launch in January 2026.

S-101 Electronic Navigational Charts

S-102 High-Resolution Bathymetry

S-104 Water Levels

S-111 Surface Currents

S-124 Navigational Warnings

S-128 Catalog

S-129 Underkeel Clearance Management Data



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DISCUSSION / CONCLUSION

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The trial is open to all IHO Member States, stakeholders and manufacturers of ECDIS/PPU/Nav app. It will provide full coverage of all Route monitoring S-100 layers and potentially more. Data will be freely available from June 2025 to November 2025, utilizing the latest encrypted and digital signature technology in S-100. For the purpose of this trial, 500 accounts will be created, and participants are expected to provide formal feedback.

Successes and issues will be documented and reported to the IHO and IMO.



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ACTIONS REQUESTED FROM HSSC

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1. Endorse the proposed area as a ***IHO Designated International S-100 Sea Trial Area.***
2. Include specific work plan items in S-100WG relative to the coordination of these tests and feedback loop
3. HSSC to task the design real-time SPI relative to product specification readiness. This could be posted in prominent location on IHO web site
4. HSSC to task design automated geospatial process using S-128 from MS to enable real-time IHO SPI 1.1.1 to be posted on IHO web site in a prominent location.