

Impact Study for S-102 Ed 3.0.0

The S-102 Project Team has been advancing the development of the S-102 Product Specification for a number years. Edition 3.0.0 has been designed for navigation use and will be the first version that mariners will be able to legally use for navigation post January 2026. This product specification will provide high definition bathymetric surface data to ensure more precise bathymetric information and allow mariners to better choose a safety contour that better matches their individual vessels.

The primary objective of this Impact Study is to gauge stakeholder readiness, and impacts related to the change in version for data producers and distributors, as this will be the first version that will be legally usable aboard ship for navigation.

Stakeholders

Given that S-102 is high definition bathymetry, the spectrum of stakeholders is extensive, as the production and use of this data is relevant for many. For navigation, the use of S-102 is heavily linked to the use of S-101, hence the list of stakeholders is similar to S-101 users.

- Data producers
- Regulators
- Product/data distributors
- RENCs
- VARs
- Equipment manufacturers
- Non-navigation user community

This S-102 light Impact study was conducted through email for distribution and response via project team members. The survey

period was from July 31st, 2024 – August 9th, 2024. Overall 11 respondents replied to the survey.

Member States

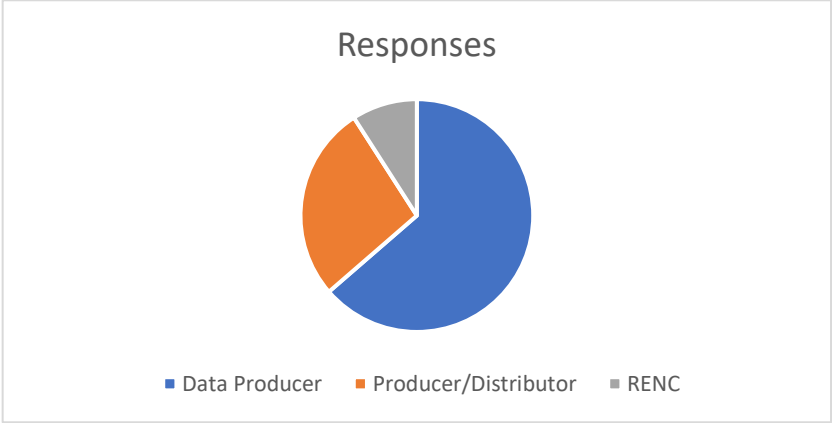
- ✓ New Zealand
- ✓ UK
- ✓ Germany
- ✓ Netherlands
- ✓ USA
- ✓ France
- ✓ Denmark

RENC

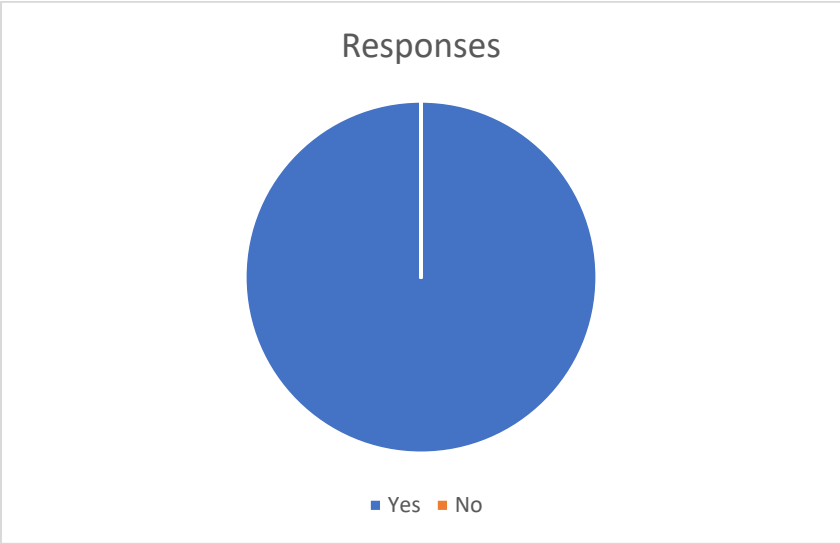
- ✓ PRIMAR

Questions

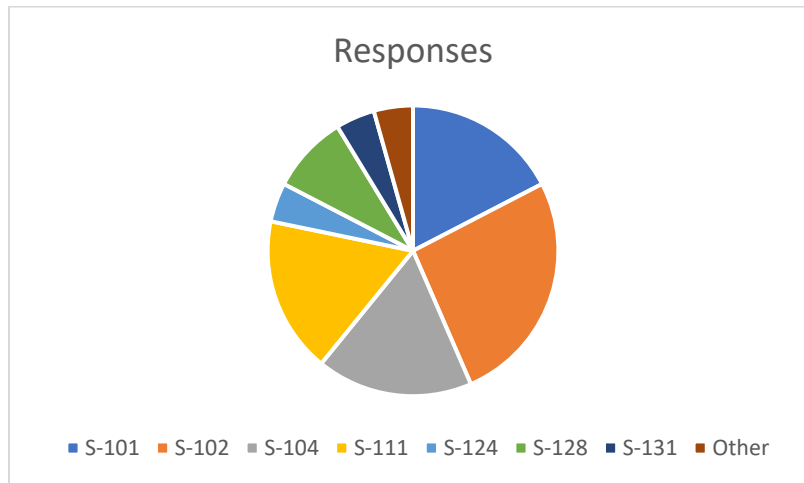
1. How do you see yourself?



2. Do you plan to produce S-100 datasets?



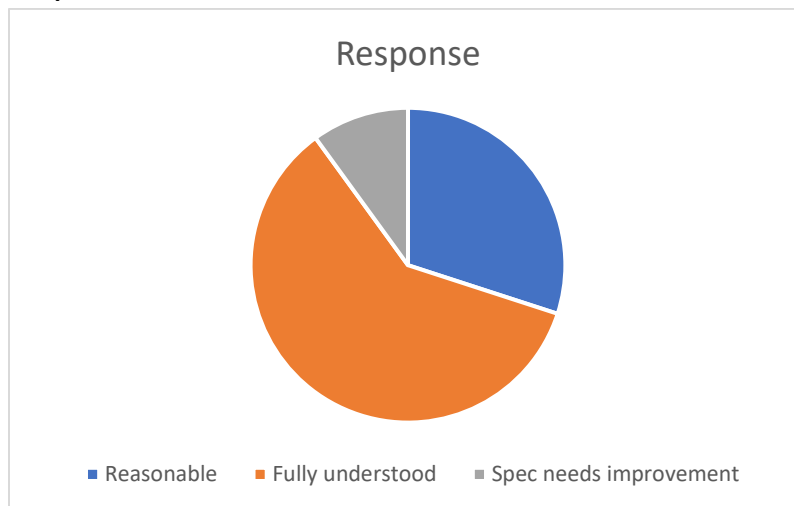
3. Which S-100 Product will you produce?



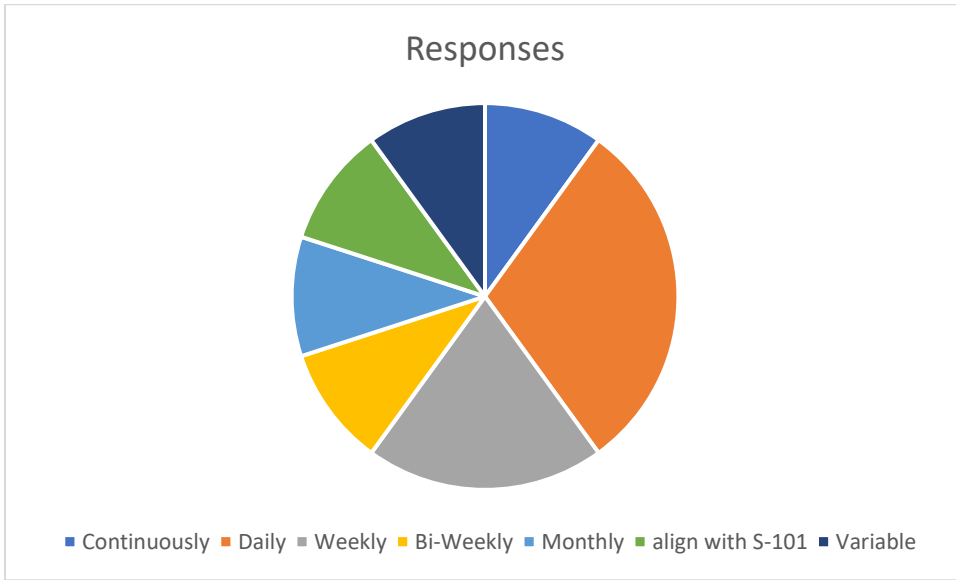
4. Do you plan to produce S-102 products?

Of the 6 responses that indicated they were going to produce S-100 products, all 6 indicated they will produce S-102.

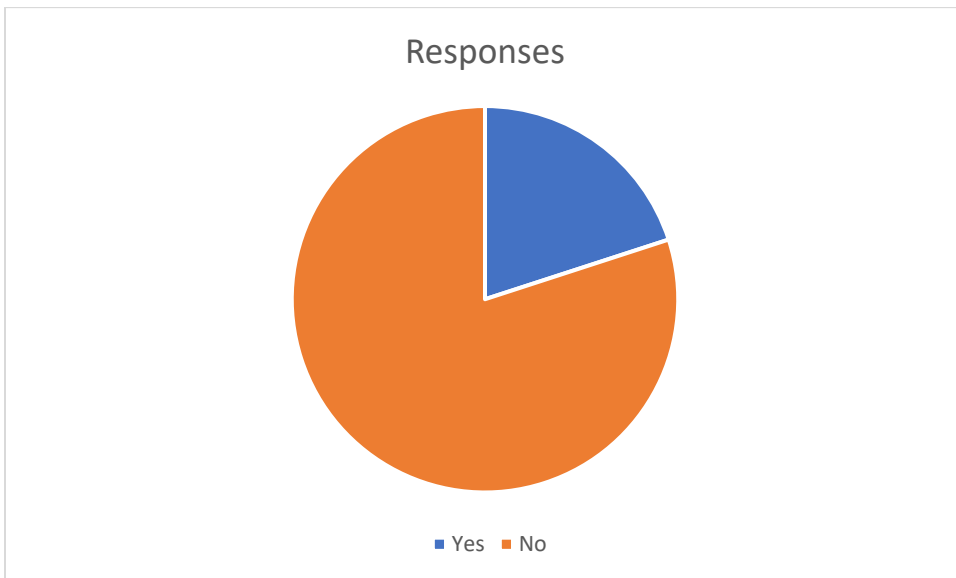
5. How confident are you that you understand how to implement S-102?



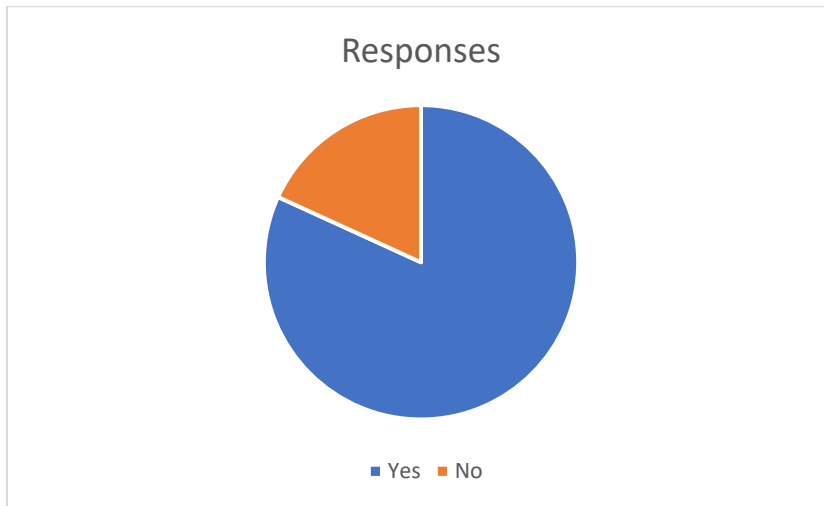
6. How frequently do you plan to update your S-102 datasets?



7. Do you rely on other parties to products S-102 datasets with your data?



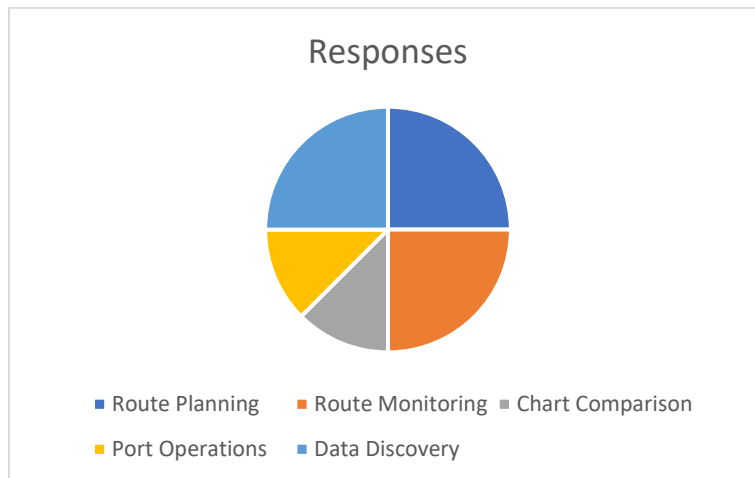
8. Do you plan to use S-102 datasets?



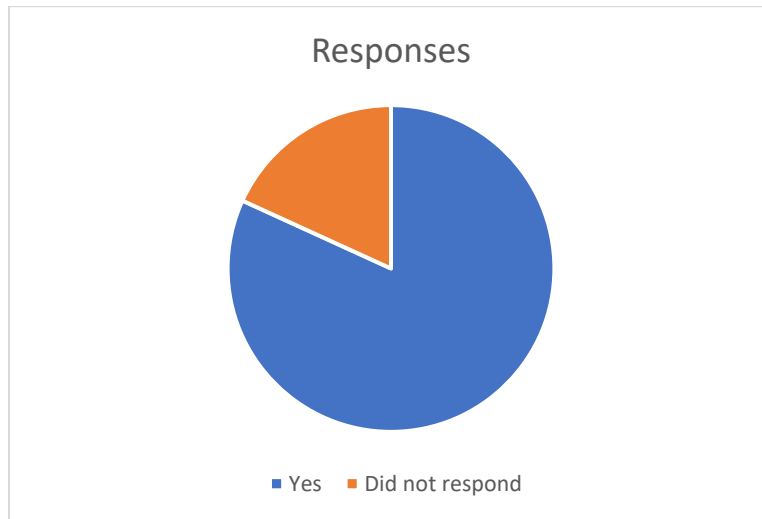
9. Under what conditions do you plan to use S-102 datasets?

Only 2 responses were populated, one referred to non-navigational use and the other referred to facilitation of data display and data discovery for S-100 service operation.

10. For which cases do you plan to use S-102 datasets?



11. Do you know where to obtain S-102 datasets?



12. Additional information

The following concerns were raised in the comment section of the Impact Study:

- the Impact Study should have included user based questions
- a concern related to distribution to shipping agencies and customers other than pilots, as the datasets are quite large and the frequencies of updates being daily for that respondent.
- The vertical datum LAT is not currently supported but would be needed behind ship locks and regulated water basins.