

Hydrographic Services and Standards Committee

Report of the Hydrographic Surveys Project Team (HSPT)

Christophe Vrignaud (Chair)
Nickolas Roscher (Vice Chair) – David Wyatt (Secretary)



Reminders

- HSPT created in March 2017 (review of the S-44)
- [First meeting in Paris](#) (kick-off, June 2017)
- 10 limitations on the S-44 have been defined + Spreadsheet to gather members comments
- Online Questionnaire about S-44 (published from Sept. to Nov. 2017)
- Nov 2017 - HSSC9/37: **HSSC** encouraged the HSPT to continue its work following the course of actions submitted at HSSC-9, with the view of submitting a draft 6th Edition of S-44 for endorsement in 2019-20.



Principal activities and achievements

- Questionnaire Results (March 2018):

Designed by the HSPT and administrated by IFHS
Disseminated by IFHS, IHO, FIG and HSPT members
From mid-August to the end of November 2017

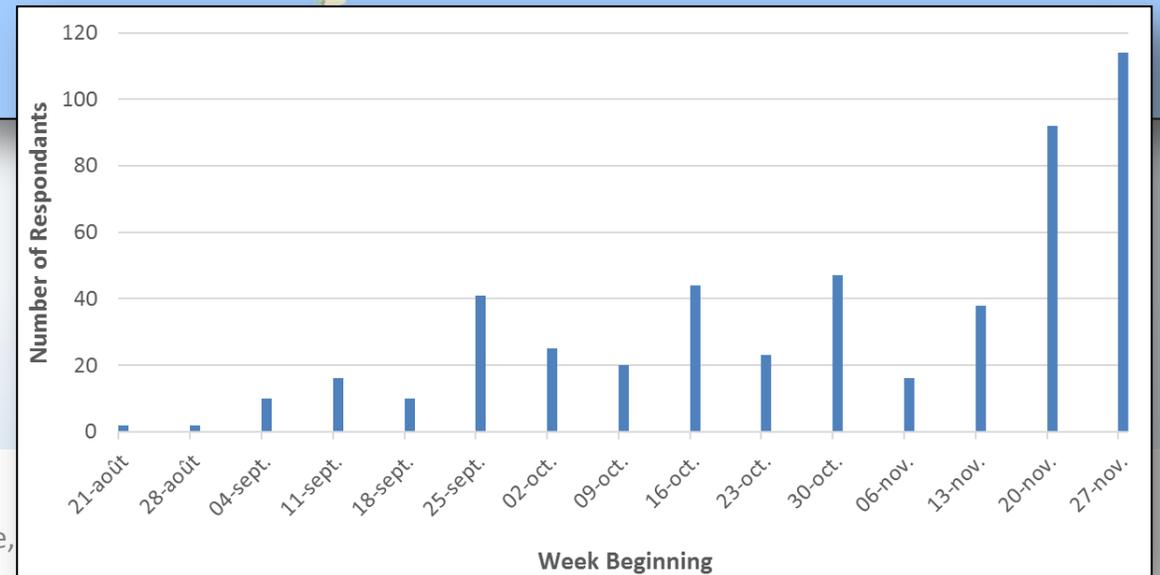
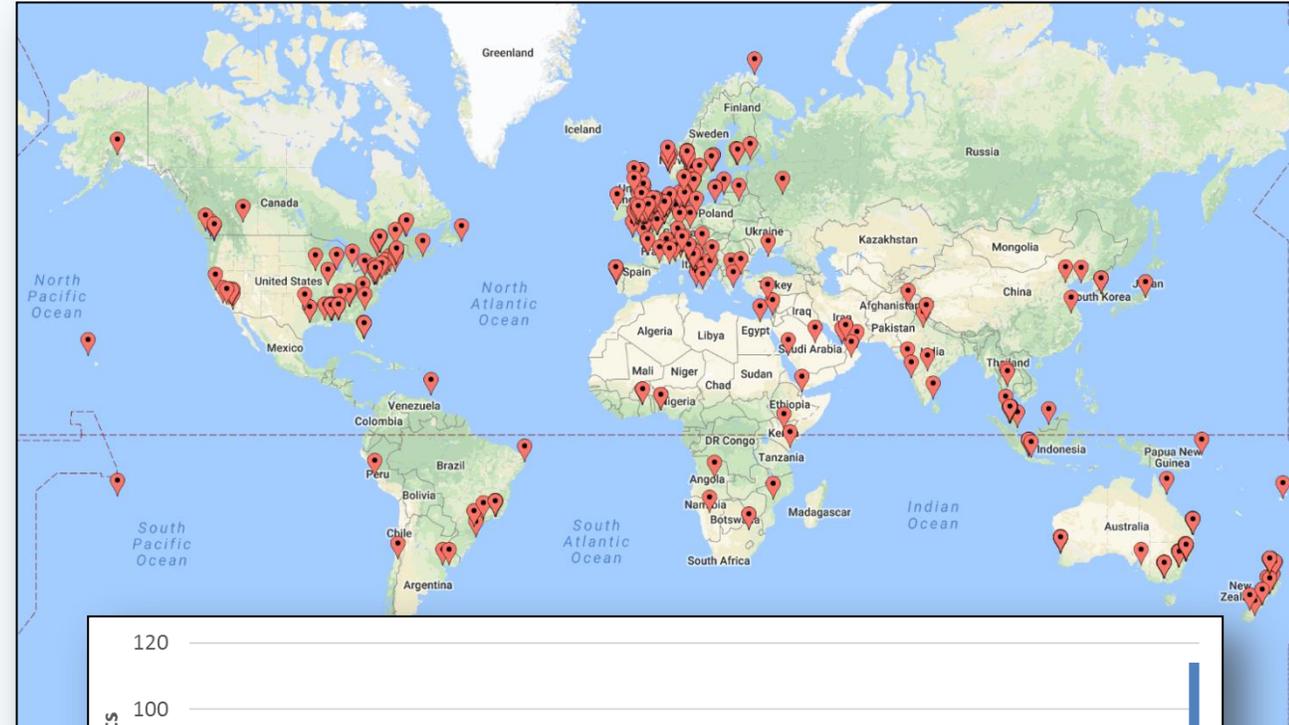
38 Questions

500 replies

Responses were received from all over the world

→ Results statistically relevant!

Thanks to **Iain Slade** (IFHS/Fugro) and **Simon IronSide** (FIG/Eliot Sinclair)



Principal activities and achievements

Link – HSPT Web page: [Questionnaire Results](#)

(note: 9 slides at the end of the presentation about the
Questionnaire results)



Problems or outstanding issues

- Possible concern:

A spreadsheet (Excel file) on identified limitations was circulated in October 2017.

A reminder was sent in November 2017 and also in March 2018.

To date, progress on inputting into this file has been slow.

→ This spreadsheet will be a major focus in the lead-up to the HSPT2 meeting in Niterói.



Future work programme

- June 2018: Merge of the spreadsheet contributions by the Coordinating Editors

- July 2018: [HSPT Second meeting](#) (Niteroi / Brazil)



- 2019: draft v1.0 of a sixth edition submitted to the HSSC (or Stakeholders - New “Review Cycle”), and proposal for a **HSWG** (if it need be).



Action requested of HSSC

- Request endorsing continued work of HSPT
- Remind the link of the questionnaire result (HSSC10 report)
- For HSSC10 report: Stress the “importance of the HSPT intersessional works, especially from inputs to the spreadsheet which will be a major focus in the lead-up to the HSPT2 meeting in Niterói”.



Next: 9 slides about the 'Questionnaire'

- One of the goal of the questionnaire is to see how the S44 is used, but also, to give guidance on how to update the document for the future.
- These 9 slides give a snapshot of some of the results of the survey.
- For a more comprehensive view, we recommend Hydrographic Offices review the entire results.



IHO Hydrographic Services and Standards Committee (HSSC)
Project Team on Standards for Hydrographic Surveys (HSPT)
S-44 Questionnaire

This questionnaire is intended to gauge the views of users and stakeholders on a range of topics that will help to inform the decision-making processes of the IHO HSSC Project Team on Standards for Hydrographic Surveys (HSPT) on the future evolution of IHO Standards for Hydrographic Surveys Special Publication No. 44 (S-44). The current (5th) edition was adopted in February 2008, a copy can be downloaded free-of-charge from the IHO website: https://www.iho.int/iho_pubs/standard/S-44_5E.pdf

We greatly value your opinions and hope that you will find 10 minutes to complete the online questionnaire, all completed questionnaires will be treated in the strictest confidence and processed anonymously. However, if you don't mind providing your name and email address the final question allows you to do so.

The closing date for responses is Friday 17th November 2017.

Section 1 is compulsory. Please answer all of the remaining questions as appropriate.

Section 1: About you

* 1. To the nearest whole year, how long have you been involved in hydrography, or an allied industry or profession?

<input type="radio"/> 0 - 5	<input type="radio"/> 16 - 20	<input type="radio"/> 31 - 35
<input type="radio"/> 6 - 10	<input type="radio"/> 21 - 25	<input type="radio"/> 36 - 40
<input type="radio"/> 11 - 15	<input type="radio"/> 26 - 30	<input type="radio"/> 41+

* 2. In which industry sectors(s) are you currently working and/or have you previously worked? (Tick all that Apply)

<input type="checkbox"/> Academia	<input type="checkbox"/> Geophysical	<input type="checkbox"/> Oil & Gas
<input type="checkbox"/> Coastal	<input type="checkbox"/> Geotechnical	<input type="checkbox"/> Ports & Harbours
<input type="checkbox"/> Construction	<input type="checkbox"/> Instrumentation	<input type="checkbox"/> Renewables
<input type="checkbox"/> Dredging	<input type="checkbox"/> Military	<input type="checkbox"/> Research & Development
<input type="checkbox"/> Environmental	<input type="checkbox"/> Navigation/Charting	<input type="checkbox"/> Seismic
<input type="checkbox"/> Fisheries	<input type="checkbox"/> Oceanography	<input type="checkbox"/> Subsea Engineering
<input type="checkbox"/> Other (please specify)		



Principal activities and achievements

- Questionnaire Results - about respondents “Experience” (Q1)

Only 11% of respondents have been involved in hydrography less than 5 years → **the questionnaire responses are based on considered professional opinion.**

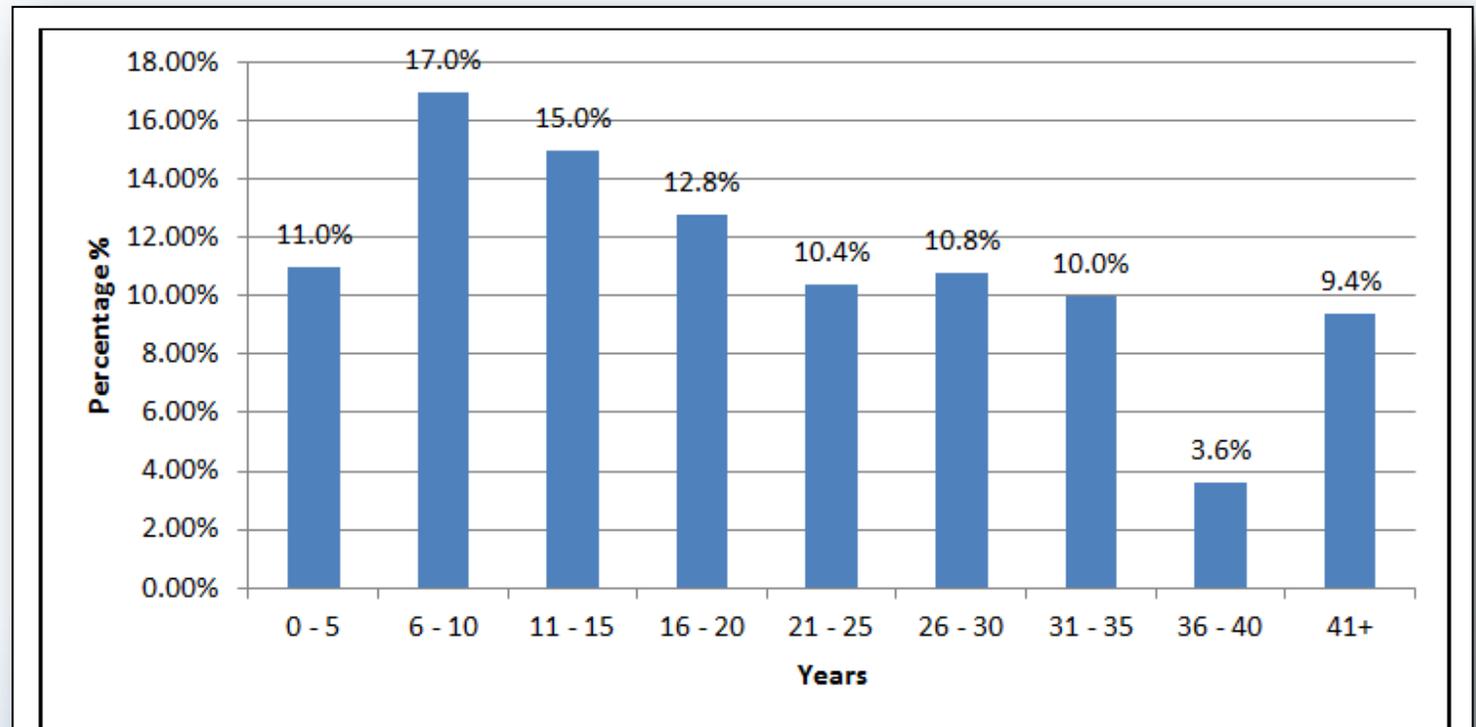


Figure 3.1: Q1 Questionnaire Respondents Years of Hydrography or Allied Experience.



Principal activities and achievements

- Questionnaire Results - about respondents “Industry Sectors” (Q2)

Respondents identified their principal industry sectors as **Navigation and Charting for Safety**.

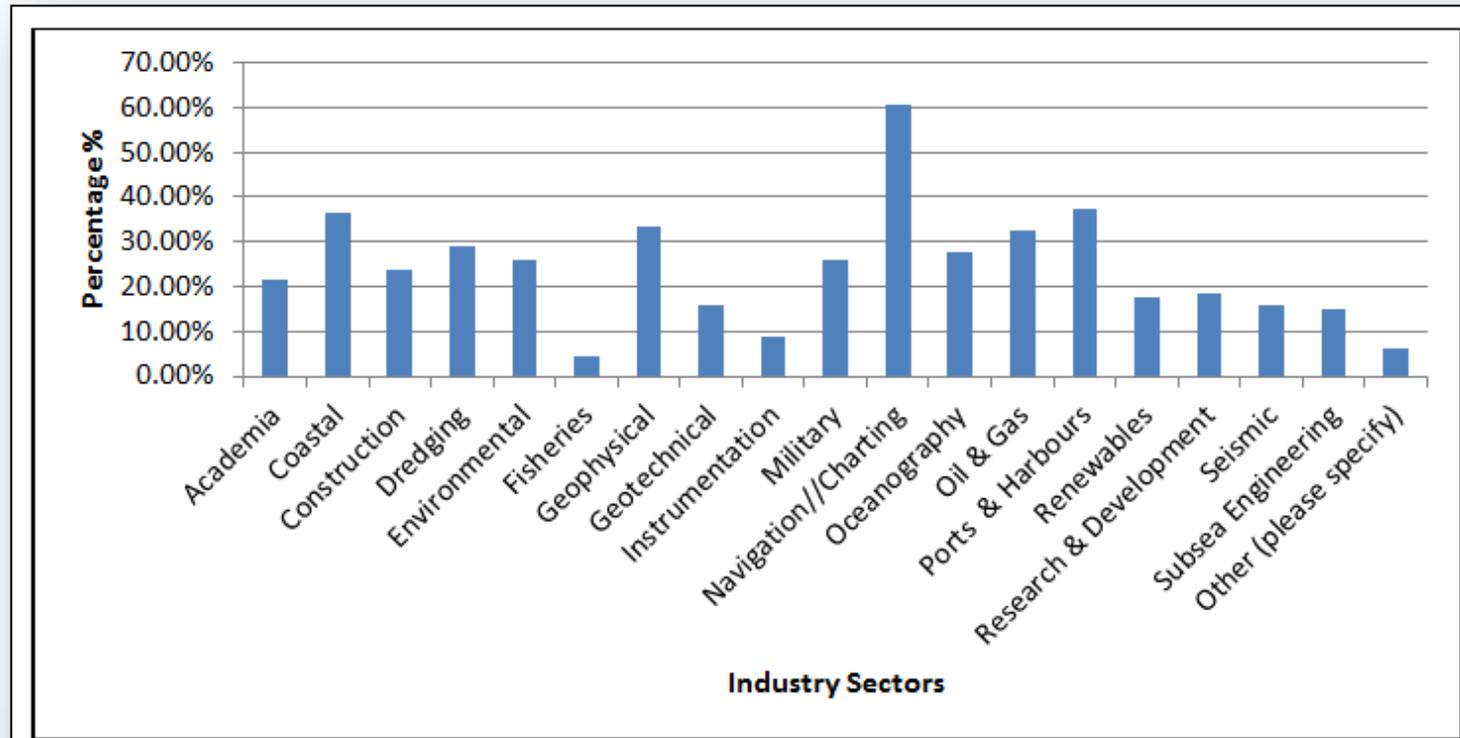


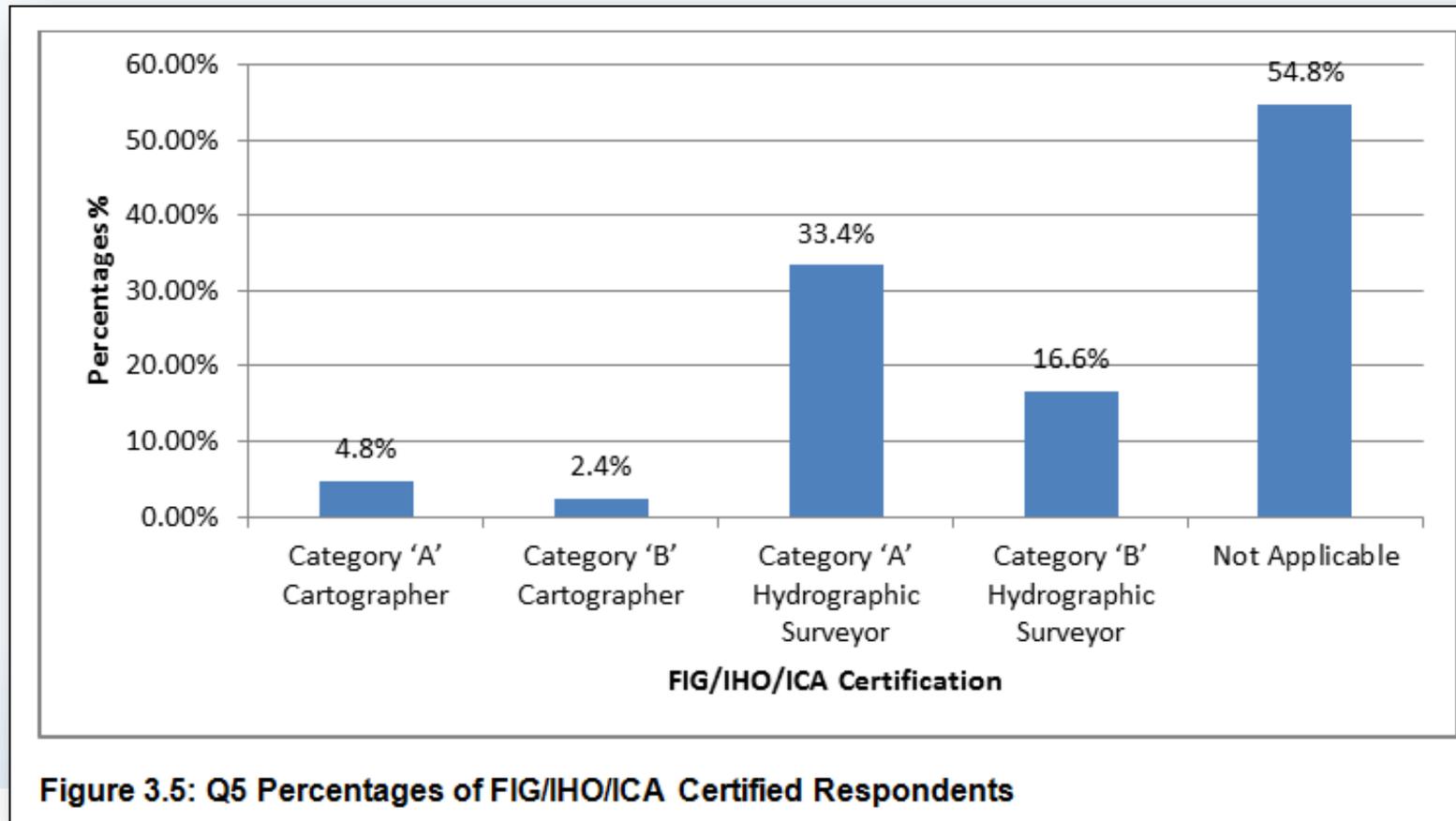
Figure 3.2: Q2 Industry Sectors where Questionnaire Respondents are or have Previously Worked.



Principal activities and achievements

- Questionnaire Results - about respondents “Certification” (Q5)

45.2% of respondents identified as IHO Certified Hydrographers or Cartographers (Cat. A/Cat. B)



Principal activities and achievements

- Questionnaire Results - about respondents (Q6)

72.6% of the respondents replied as an individual. 22.6% responded on behalf of company/organization and 4.8% responded on behalf of an IHO Member State (= 24 MS : India, Brazil, Germany, Finland, Denmark, Thailand, Oman, South Korea, Italy, (x2) Portugal, Sweden, Indonesia, France, Malaysia, USA (x5), Papua New Guinea).

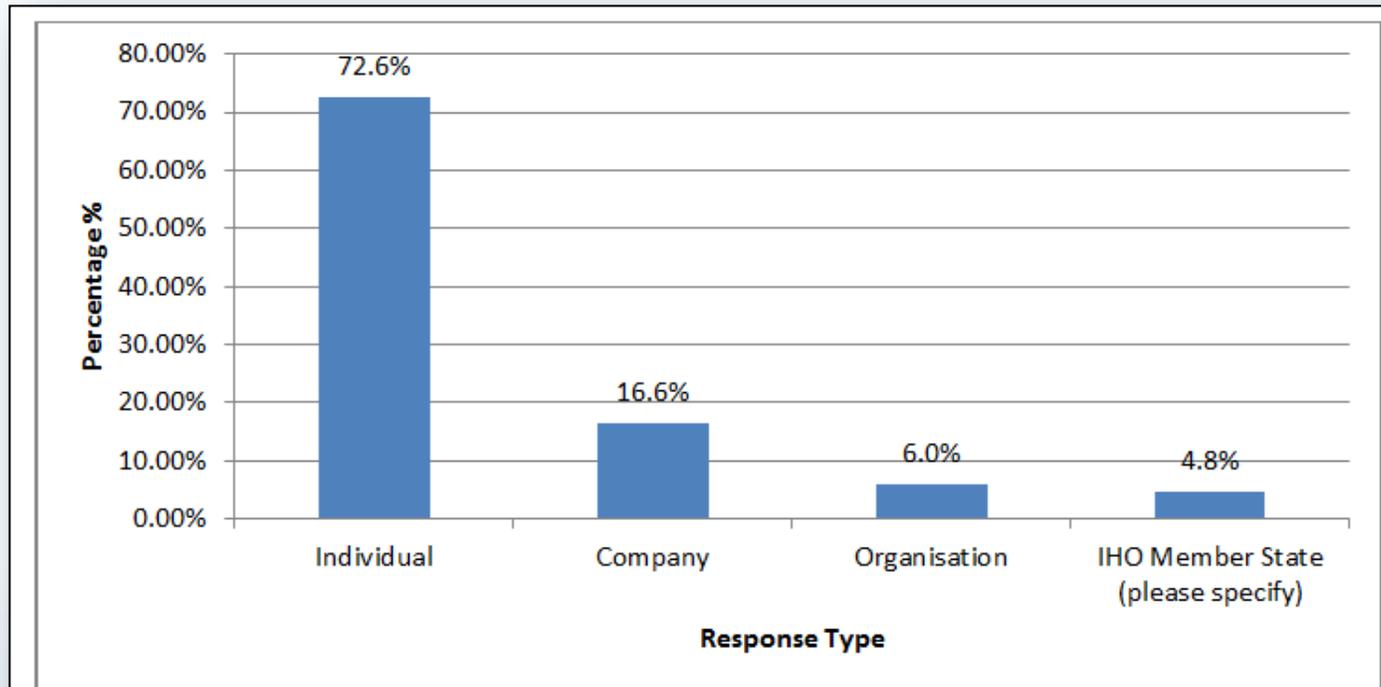


Figure 3.6: Q6 S-44 Questionnaire Response Type



Principal activities and achievements

- Questionnaire Results - about respondents “Most Used Platform” (Q9)

Nearshore and coastal vessel are the most commonly used platforms (71.6%) and use of autonomous vehicles is considered significant (Surface: 22.6%, Underwater: 24.6%, Aerial: 15.8%).

Multibeam Echosounder is the main sensor used by respondents.

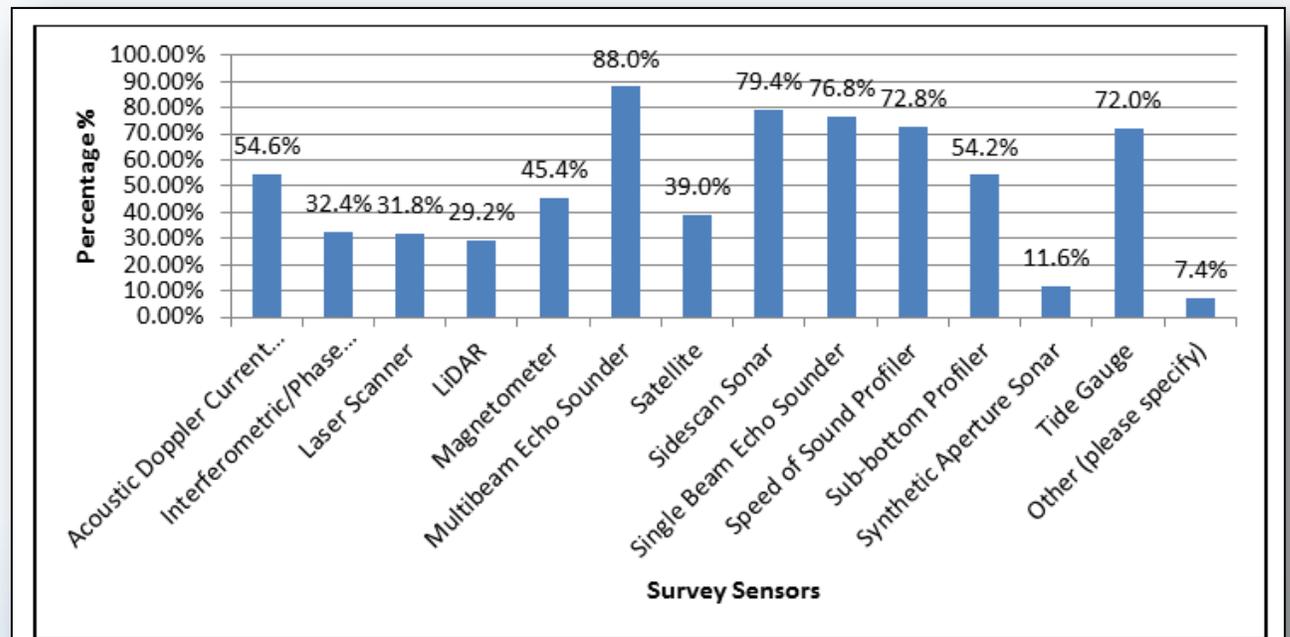


Figure 3.10 Q10 Survey Sensors Utilised.

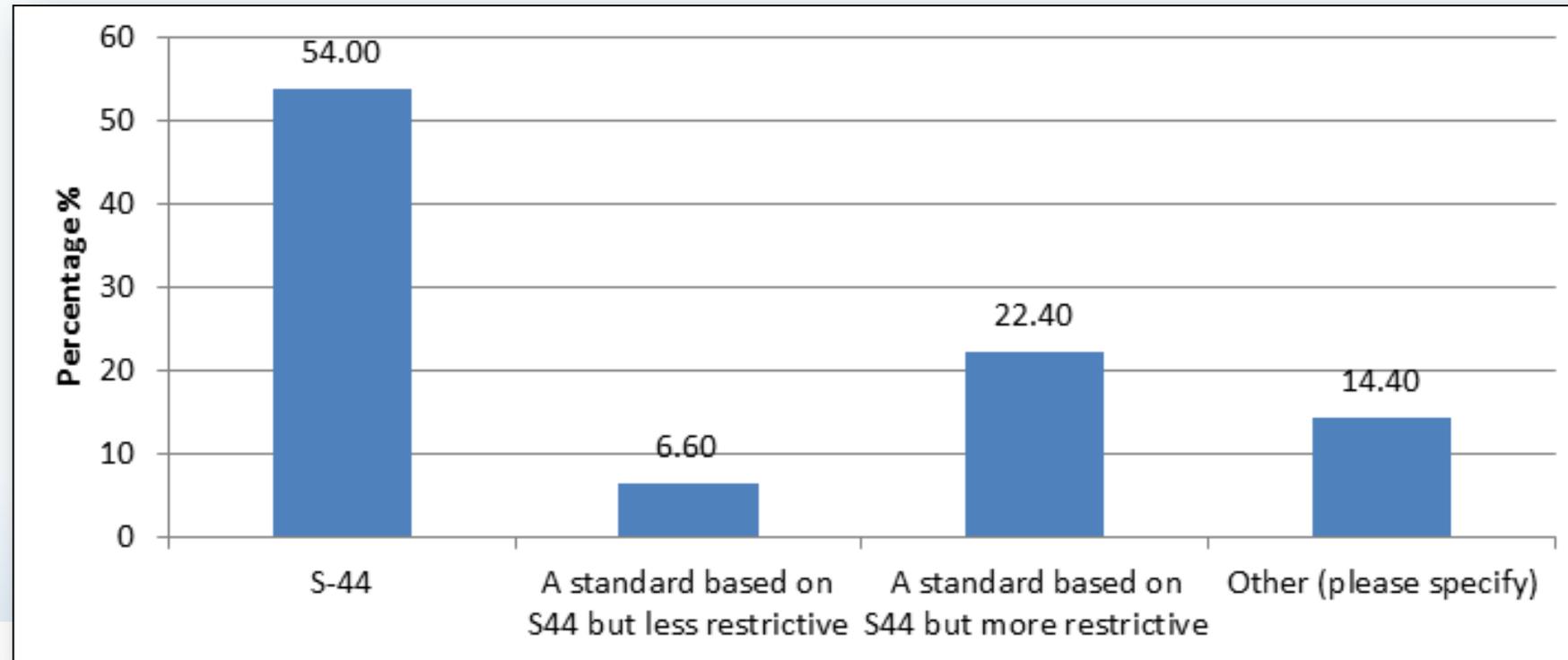


Principal activities and achievements

- Questionnaire Results: “Documented Standard?” (Q12)

A large majority of the surveys undertaken by respondents are based on a documented standard (81.3%).

Of those, 54% use S-44, 22.4% use a standard more restrictive based on S-44 and 6.6% use a standard less restrictive based on S44 (most mentioned criteria: client specifications, in-house standards, LINZ, USACE, NOAA specs.).

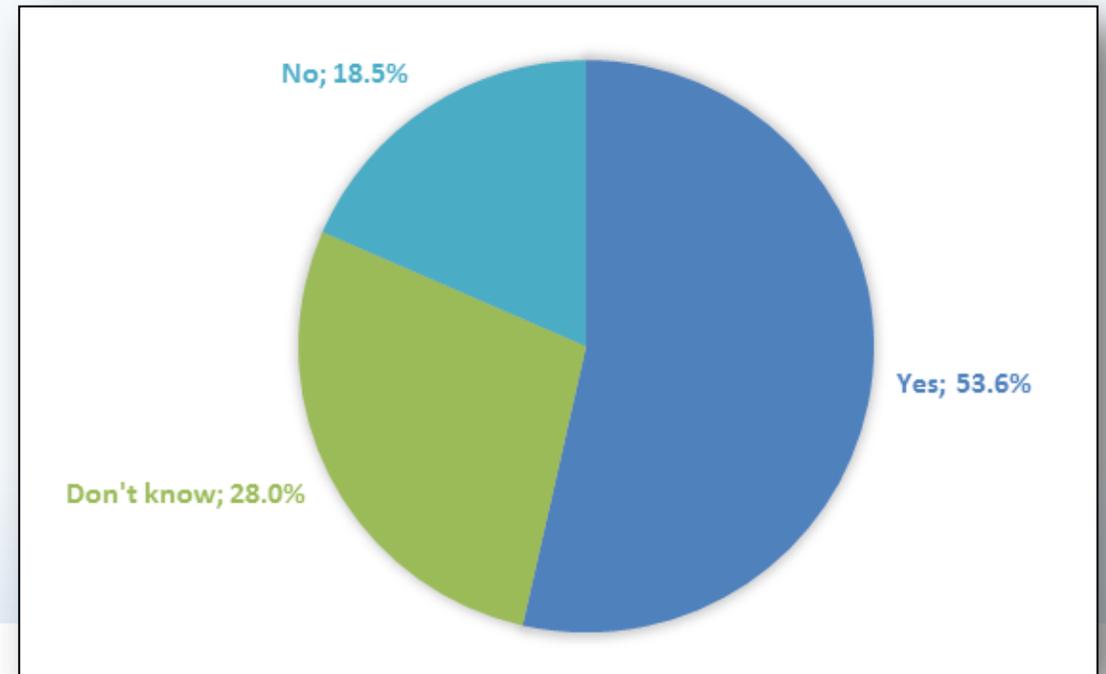


Principal activities and achievements

- Questionnaire Results: “S-44 relevant and S-44 Sufficiently Strict?” (Q15, Q17, Q19)

IHO recognised survey criteria would benefit for 86.1% of the respondents and 83.5% consider S-44 Edition 5 is relevant to them.

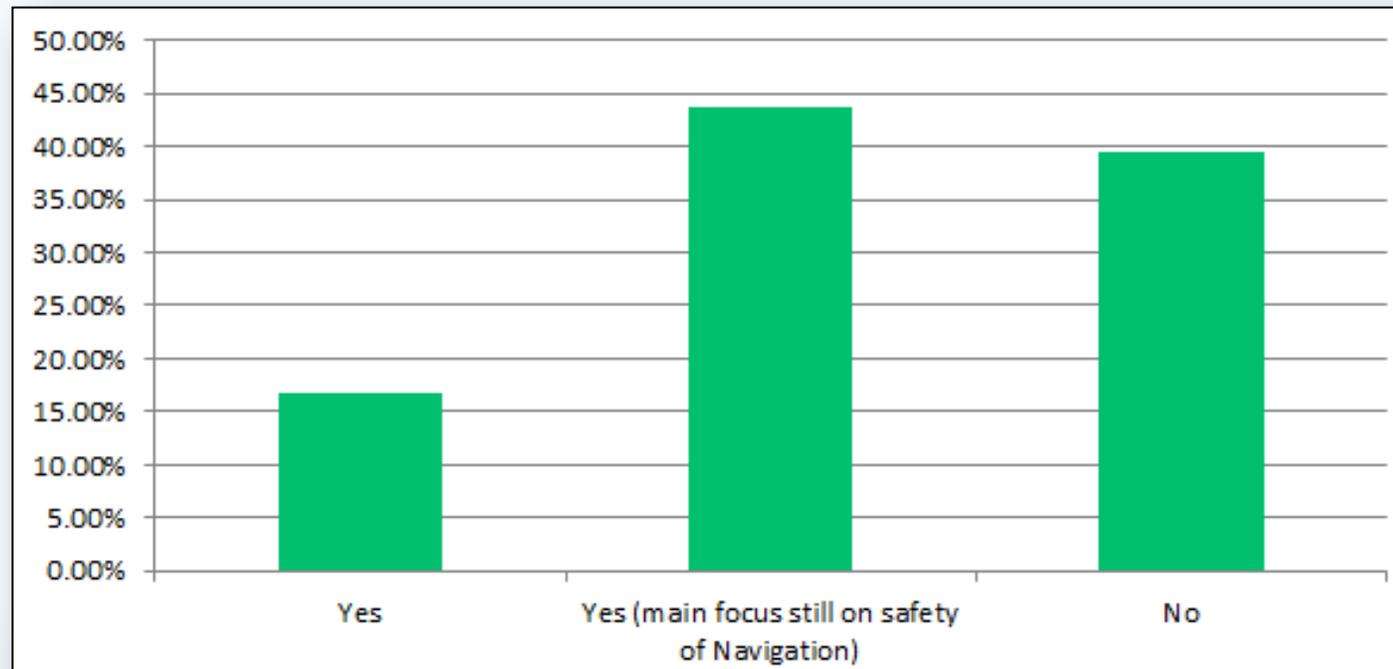
Furthermore, regarding the exclusive purpose of safety of navigation, the majority consider S-44 as sufficiently strict (53.5%).



Principal activities and achievements

- Questionnaire Results: “S-44 extended to other purposes” (Q25)

A majority (60.8%) consider S-44 should be extended for other purposes and includes 43.6% who think the S-44 focus must be safety of navigation.



Principal activities and achievements

- Questionnaire Results: “Manual on Hydrography C-13” (Q34, Q35)

72% of 333 respondents are aware of the C-13 ‘Manual on Hydrography’ and 20% use it

91.81% of the respondents, aware about C-13, consider it will be relevant to update C-13 in the future

