

# Hydrographic Surveys Project Team

## HSPT2 – Mid-Meeting Recap Christophe Vrignaud (Chair)

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# Standard Definition (ISO ref.)

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International Organization for Standardization

When the world agrees

*“An International Standard provides rules, guidelines or characteristics for activities or for their results, aimed at achieving the optimum degree of order in a given context.”*



# HSPT1 Reminders

**Surveyors face Technologies more and more efficient (coverage, accuracy, new features)**

- LIDAR
- MBES BS
- SDB
- Crowdsourcing Bat.
- ...

Does the S-44 need to be more constrained or at the opposite, more flexible in order to accommodate data that might be less accurate but remain priceless when information is missing?

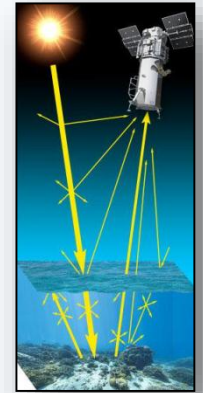
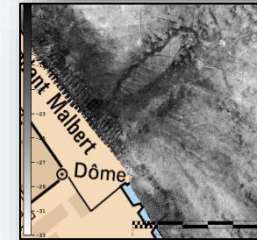
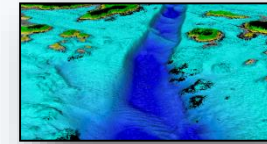
**Needs not only for safety of navigation**

- Oceanic studies
- Wind Farm
- UXO
- ...

Does the S-44 have to deal exclusively with safety of navigation or take into account other hydrographic needs?

**For public maritime policies: bathymetric Surveys sometimes done by un-experiented people, or using useless specifications for hydrography**

Knowledge of the hydrographic surveys standards is very important not only for the hydrographic community, but also for private/public contracting bodies.



# HSPT1 + HSPT2 Reminders: The Limitations

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#1 – Currently S-44 is focused only on a final objective, which is the nautical chart, with a depth classification (possible solution to consider: updated table or matrix)

→ **CA**, BR, NGA, FUGRO, IXBLUE

#2 - Difficulty to have an overview of all requirements (possible solution: updated table or matrix)

→ Liaise with #1

#3 - Limited number of definitions (possible solution: support and liaison with the DQWG and VIM3)

→ **AML**, GER, ARGANS(HDWG), FR

#4 – Misalignment/lack of connection between S-44 and CATZOC

→ Liaise with #1 + **NGA**, AUST, BR, CA



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#5 - Grid resolution and bathymetric surfaces not addressed

→ Liaise with #1 + **NOAA**, PRT, AUST, UNH, FUGRO

#6 - Confusion on S-44 use between a-priori TPU and a-posteriori Qualification

→ **NDL**, FRA, IXBLUE, UNH, CAN, NAVO, PRT, BRA, AML (rewrite Annexe A.. + Annexe B ?)

#7 - S-44 should remain technology neutral, be focused on the resultant data and not focus on specific systems or methods

→ **FUGRO**



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#8 - Confusion of attributes in metadata and the importance of metadata to support the resultant dataset

→ **AUST**, IXBLUE, FUGRO, FRA

#9 - Outdated chapters

→ Liaise to all limitations

10 - Annexes A & B could be placed in C-13 - Manual on Hydrography

→ Keep the Annexes, waiting for C-13 update (→ **HSWG**)



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- **HSPT2 breakout sessions (Episode 1):**

- Start to work on limitations, using dedicated groups, with one Point of Contact
- Think about “Chapters” of 6<sup>th</sup> Ed.



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- **The Matrix approach:**

- A complement for the “Table 1”
- Not a standard (not mandatory to be achieved for safety of navigation – except if “Orders” are specified)
- A tool for contracting bodies (or surveyors) to specify a survey, according to the real need
- A tool for Quality Control to qualify a survey, a posteriori
- The concept allows expansion and future growth

- **Key objective:**

- Stay focused on HYDROGRAPHIC Surveys
- Make it simple, practical and usable





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- **The Matrix consideration:**

- Keep the most relevant categories
- Keep the categories we can articulate
- descriptive categories are questionable (Slope, Seafloor Time variability)
- Remember that a future WG could be consider, tasked to upgrade the matrix in the future, if it need be.
- Thanks to HSPTS, The S-44 is going to be rewritten with all limitations considerations: stay focused on what we can reasonably achieved.

- **10 limitations assessed, including a matrix consideration: HSPT is going to do a great job! (do not be too greedy)**



- **This morning:**
  - Define Chapters for the 6 Ed.
  - Define Point of Contact to write these chapters

|                              |                                      |
|------------------------------|--------------------------------------|
| <a href="#">Preface</a>      | .....                                |
| <a href="#">Introduction</a> | .....                                |
| <a href="#">Chapter 1</a>    | Classification of Surveys.....       |
| <a href="#">Chapter 2</a>    | Positioning.....                     |
| <a href="#">Chapter 3</a>    | Depths .....                         |
| <a href="#">Chapter 4</a>    | Other Measurements .....             |
| <a href="#">Chapter 5</a>    | Data Attribution.....                |
| <a href="#">Chapter 6</a>    | Elimination of Doubtful Data.....    |
| <a href="#">Table 1</a>      | .....                                |
| <a href="#">Glossary</a>     | .....                                |
| <a href="#">Annex A</a>      | Guidelines for Quality Control.....  |
| <a href="#">Annex B</a>      | Guidelines for Data Processing ..... |



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- **HSPT2 breakout sessions (Episode 2):**
    - Continue the work, based on chapters
  - **Achieved a preliminary and consistent draft in 2019 (based on HSPT2&3)**
  - **Released a final version in 2020, to HSSC12**
  - **Think about HSWG!**



