





Royal Netherlands Navy Hydrographic Service

32nd NSHC Conference

Agenda item D.1:

Report of the Resurvey Working Group

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June 2016



Meetings

- The 5th NSHC-RWG meeting was held in Plymouth (UK), directly after Shallow Survey 2015 (18 September 2015).
- Observers: BSHC, IHB, MCA.
- The 6th NSHC-RWG is to be planned (Hydro16 Rostock?).
- Vacancy for chair after 6th NSHC-RWG.
- Special thanks to Shallow Survey 2015!



Alternative survey techniques (Conclusion 97)

- New technologies should be evaluated using existing standards (IHB report on S-44 to HSSC7)
- <u>Satellite-derived bathymetry</u>: requires worldwide guidelines.
- <u>LIDAR</u>: used in shallow, clear areas. MBES finds objects that LiDAR does not.
- <u>Crowd-sourced bathymetry</u>: a means to get information on depth where there is none or where it is very old.
 - <u>Autonomous surveying</u>: monitored, but not yet applied. UKHO will perform a feasibility study.



North Sea Bathymetry Database (Conclusion 113)

- First results are available at www.nshc.pro.
- The English Channel will be included, the Irish Sea could be included at the request of UK and IE.



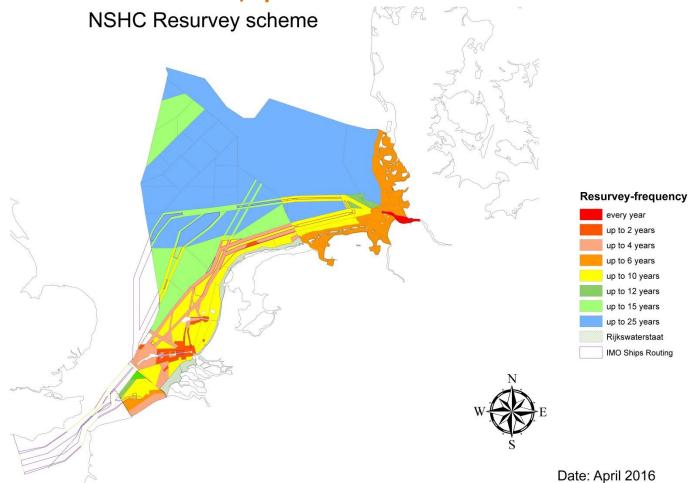
North Sea wide risk assessment (Conclusion 112)

This conclusion reflects that:

- each MS has its own survey strategy, based on the physics of its part of the North Sea, the particularities of usage, and its own capacities;
- it is necessary to verify the consistency of the national strategies;
- RWG is expected to undertake an analysis for the entire NSHC region, in line with recent developments on risk assessment.



Conclusion 112, part 1





Conclusion 112, part 2

The data sets could include:

- depth (as provided by the NSBD)
- morphological characterisation, including expected dynamics
- resurvey frequency (example: map 2)
- applied S-44 order
- date of last survey (example: map 3)
- applied sensors (example: map 4)
- shipping intensity (example: map 5)
- maximum shipping draught (example: map 6)
- administrative and usage areas

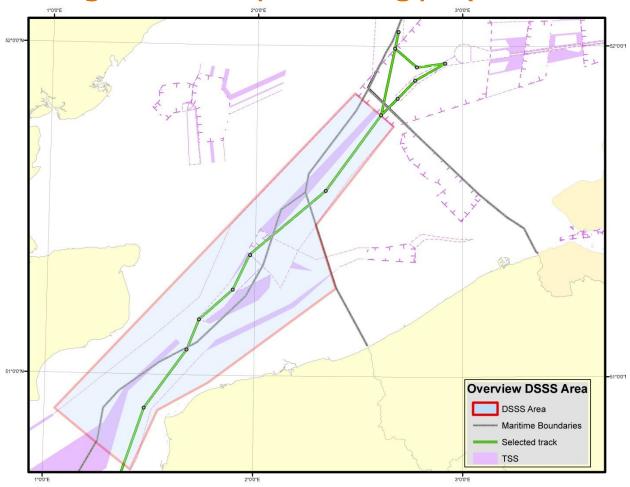


Conclusion 112, part 3

- no resources
- lack of insight into the relevant data sets
- focus on the national level first



Dover Straight Survey Strategy (Conclusion 111)





Dover Straight Survey Strategy (Conclusion 111)

- In a letter of 15 July 2015 to BE, FR and UK, NL concluded that all are in favour of merging the BE/FR/NL/UK DSSSWG with the NSHC RWG
- NL disbanded the DSSSWG
- NL tasked the RWG to suggest updates to the Agreement, building upon the work that has been done by FR
- UK recently proposed "that the Agreement should be formally withdrawn by the four signatories" and "pertinent elements from the Agreement should be reflected in the ToRs of the WG"



Requested guidance by the RWG

- To note this report;
- To consider a candidacy for WG chair;
- To provide feedback to the first NSBD results.

Risk Assessment:

- to confirm information exchange (part 1 of conclusion 112);
- to discuss mutual verification (part 2 of conclusion 112);
- not to pursue a common approach (part 3 of conclusion 112).

Dover Strait Survey Strategy:

- to confirm the update of the Agreement, or withdraw it;
- to approve the suggested changes to the Agreement;
- to formulate additional input on the Agreement.

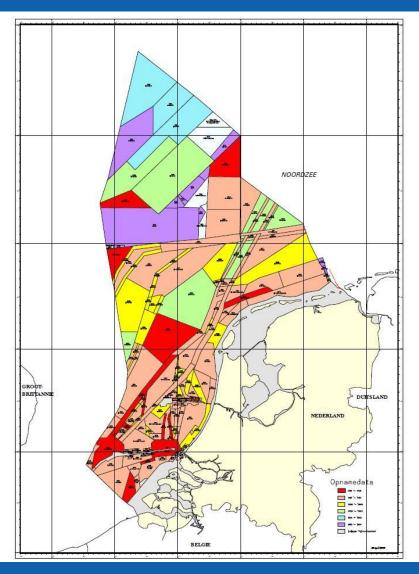


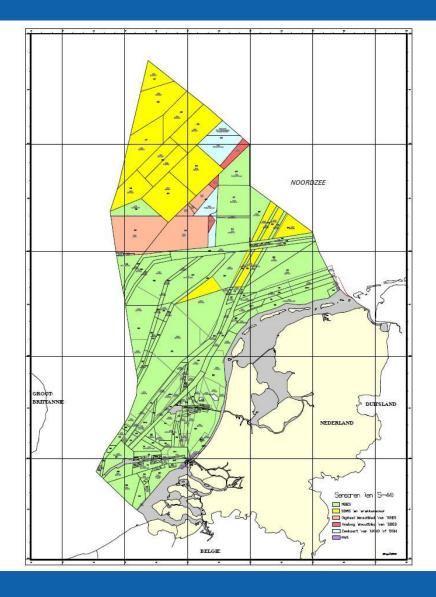
Bonus slides



survey dates

used sensors

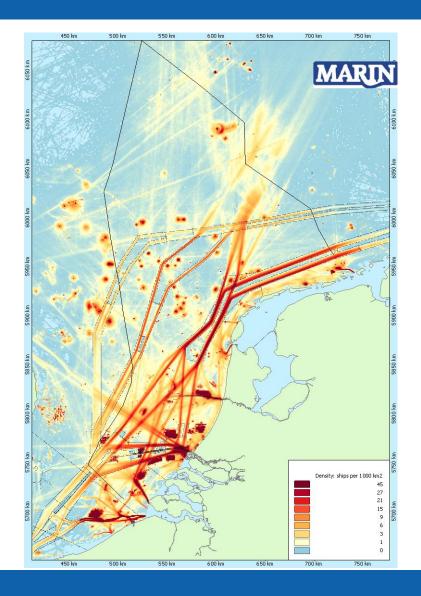


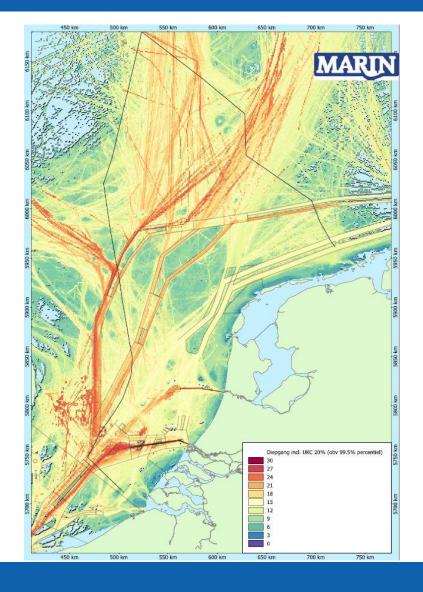




shipping intensity

draught







Scope RWG

With reference to NSHC conclusions nos. 28, 89 and 97,

and considering the need to monitor the implementation of the North Sea Hydrographic Commission's Member States re-survey plans,

the North Sea hydrographic Commission has established the NSHC Resurvey Working Group (RWG) with the following terms of Reference and Rules of procedure.



ToRs RWG

The NSHC Resurvey Working Group is tasked:

- To maintain and develop the North Sea Resurvey Scheme and present it on the internet.
- To maintain a resurvey metadata database where applicable.
- To follow up the implementation of the Resurvey Scheme.
- To identify possible problems and propose solutions or workarounds to them.
- To specify and propose updates and changes to the Resurvey Scheme.
- To liaise with national Maritime Administrations and other relevant organisations and groups regarding the North Sea Resurvey Scheme.
- To monitor and report on the development of aerial and satellite bathymetry.
- To report to the NSHC at the conferences, and whenever found nescessary.



RoPs RWG

- Each member state of NSHC shall nominate a representative to the RWG, if relevant to the scope and terms of reference. The representatives should be experts in the field of hydrographic survey planning.
- The RWG shall work mainly by correspondence, preferably by e-mail.
- Meetings shall be arranged when found feasible and at least once between two consecutive NSHC conferences. Hosting of the meetings takes turn between the members of the RWG.
- The RWG has a Chair and possibly a Vice-Chair.
- The Chair and Vice-Chair shall be members of the RWG and are nominated by the NSHC.
- With the Chair's approval non-members may attend the RWG meetings.
- Decisions should be made by consensus.