



Baltic Marine Environment Protection Commission

Expert Group on environmental risks of hazardous
submerged objects
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SUBMERGED 3-2015

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Background

The attached document contains a draft outline of the chapter on wrecks of the SUBMERGED Assessment.

Action required

The Meeting is invited to consider and further develop the draft outline on wrecks.

Draft 0

Outline of Chapter on Wrecks in the Baltic Sea of HELCOM SUBMERGED Assessment

General structure of contents – wording of individual section headings subject to future refinement

- **Introduction**
 - **Wrecks in the Baltic Sea**
 - A general introduction, i.a.:
 - Definition of wrecks (ship wrecks, aircraft wrecks, other structures?)
 - Scope of contamination (fuel, cargo+++)
 - National wreck registers
 - **Former reports**
 - Regarding managerial activities and investigations, i.a.:
 - Wreck mapping activities in the Baltic
 - Relevant wreck studies made elsewhere – Lessons Learned
 - Differences to this report (widened scope)
 - **National activities**
 - Grouped according to MS:
 - Databases development
 - **International activities**
 - managerial activities and investigations, i.a.:
 - IMO conventions – Nairobi Convention
- **Geographic distribution**
 - **Limits and quality of information**
 - Description of how the presented data was collated
 - especially: 'Disclaimer' regarding incomplete data basis and uncertainties associated with currently available historic information
 - **Introduction of wrecks into the Baltic Sea**
 - Short general description of shipping history and other historical periods from which wrecks originate
 - General description to different wreck types and eras (accidental wrecks, battle wrecks)
 - **Areas of concern**
 - Maps & profiles for special areas of interest (including historic context), i.a.:
 - thematic map on number of wrecks sites
 - but also maps and descriptions showing overlap of other
 - List of main known wrecks will likely be suitable for placing in the annex
- **Environmental issues**
 - Threat of oil pollution
 - (applicable hazards should be described in this chapter => description of likelihood and resulting risk will be addressed under 'risk assessment')
 - **Hazards related to fuel and cargo oils**
 - To
 - **Other hazards related to wrecks – not to be handled in this context ?**
 - ?

- **Risk assessment**
 - (Wreck prioritization/ risk assessment)

- **Remediation/salvage measures**
 - **Principal considerations**
 - (also discussing mitigation measures, e.g. with regard to marine mammals)
 - **Techniques**
 - i.a. action by divers, ROV and other recovery systems
 - **Lessons learned**
 - (From past measures)

- **(Conclusions and recommendations)**
 - (Likely to be placed at the end of the complete SUBMERGED report)
screening the national registers using selected risk assessment tool (VRAKA)
selecting the “hot spots” using the unified risk matrix with preselected parameters
screening up the locations of the objects with the HELCOM sensitivity maps
selecting an appropriate amounts of objects for further measures
conducting hydrodynamic studies and additional measures to validate the studies carried out and to get justification for the original analyses
selecting the hot spots and transfer data to the proper GIS database /HELCOM ?
creating programme to follow up the selected objects (additional satellite images in August – November, etc...)