

**Status of the Nautical Hydrographic Information System (NAUTHIS) for the
Integrated Production of Nautical Publications from a Common Database at the
BSH**

The Nautical Hydrographic Information System (NAUTHIS) forms a single product-independent geo-information system allowing the production and maintenance of ENC's, paper charts, nautical publications and Additional Military Layers (AML) from a common data base. NAUTHIS also provides BSH's new WMS-services as part of the public geo-data infrastructure with geo-referenced hydrographic data. The structure of the so called Hydrographic Data Base HPD used in NAUTHIS is in conformance with S-57. The database itself is maintained with CARIS HPD software. The HPD component of NAUTHIS is now sufficiently populated with source data for the eastern part of the German Bight and the sea areas between the Weser and Ems estuaries. The coverage is continuously growing, mainly through processing of source data.

For those areas which are already completely covered within HPD, regular production of ENC's and paper charts has now started successfully using the CARIS software components **ENC- PE and PCE**. The production of selected AML-layers has been successfully tested as well.

The definition of data structures for the incorporation of sailing directions' content into the HPD and subsequent extraction as data sets and for printed products is the objective of a pilot project executed in cooperation with Jeppesen Marine. The primary goal of this pilot project is the development of a data model for nautical publications as contribution to the work of the IHO Standardization of Nautical Publications Working Group (SNPWG) in this area. BSH has begun restructuring the text in its sailing directions to support this data model.

More recent information on the NAUTHIS implementation will be provided at the Conference.