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ANTARCTIC GIS

Progress Report, September 2012 IHB

1. General

A "Antarctic GIS" is being developed at the IHB, which will comprise a number of layers of information relating to Hydrography, e.g. surveys, INT charts or ENCs. It will provide metadata and geometry for each layer. Assistance in this development is provided by an officer kindly seconded to the IHB by Japan (JHOD).

Currently, the layers of information being considered include:

- ✓ Hydrographic Surveys:
 - Systematic surveys (areas defined by closed polygons).
 - Enroute surveys / Soundings on passage.
- ✓ INT Charts :
 - o Agreed scheme
 - Charts published / not published / planned
- ✓ ENCs:
 - Agreed scheme for all Usage Bands
 - ENCs published / not published / planned
- ✓ RNCs:
 - o RNCs produced or published.
- ✓ Geographical Names:
 - Undersea Feature Names, e.g. from GEBCO-SCUFN Gazetteer
 - Other maritime names, e.g. from S-23
 - Land Toponomy, e.g. from SCAR Composite Gazetteer on Antarctica
- ✓ Tide records
- ✓ Scientific Stations

A draft Antarctic GIS can be seen here (to be used with e.g. Google Earth)...

2. Data Model

As part of the Antarctic GIS development process, a Data Model is being prepared. See <u>Excel table showing the</u> metadata which will be presented for each layer of information.

3. Survey Metadata

General information on hydrographic surveys carried out in Antarctica (soundings along passage and systematic polygonal maintained areas) is at the IHB in an Excel file. See http://www.iho.int/mtg_docs/rhc/HCA/HCA_Misc/GIS_Antarctica/GIS_Antarctica.htm for more However, survey metadata available is largely outdated and HCA members are invited to make use of the sample Excel file available on the IHO website to provide survey metadata updates to the IHB.