

IHO HYDROGRAPHIC COMMITTEE ON ANTARCTICA (HCA)
9th Meeting, Simon's Town, Cape Town, South Africa (12 - 14 October 2009)
National Report –Germany–

General

One of Germany's area of responsibility for preparing INT Charts in Antarctica is the area off Dronning Maud Land, in particular the region which covers the Atka Iceport and the Ekstroemisen, on which the German wintering station Neumayer is situated. The German Research and Supply Vessel Polarstern visits the Neumayer Station at least two times the year for logistic and scientific reasons.

Following two nautical charts INT 9055 and INT 9057 were defined for safe approach, navigation and operation in this region.

- INT 9055 (DE 1701) „Atka Iceport to Trolltunga“
68°20'S - 71°00'S, 10°30'W - 01°30'E,
1:500 000 at a reference latitude of 66°S, Geodetic Datum: WGS 84

- INT 9057 (DE 1702) „Approaches to Atka Iceport“
69°30'40"S - 70°50'S 10°00'W - 05°00'W,
1:300 000 at a reference latitude: of 70°S, Geodetic Datum: WGS 84

The paper charts and the corresponding ENC's were produced in a joint project by Federal Maritime and Hydrographic Agency (BSH) as national HO, and the Alfred Wegener Institute for Polar and Marine Research (AWI) which holds most of the bathymetric and topographic source data for this region

Data evaluation and processing were carried out at the AWI. The editing of the data base for ENC and paper chart at the BSH could be finished in 2009 to publish the ENC's and paper charts this summer. Further updating of both paper charts and ENC's will be maintained under the regular BSH regime for such navigational publications.

Divided workings

AWI

- Post-processed bathymetry data (multibeam data from RV Polarstern) using CARIS HIPS
- extracted coastline, grounding line from RAMP and ADD4 and ADD5
- undersea features, land features from SCAR (CGA), SCUFN (GEBCO)
- features like Neumayer Station, emperor penguin and Weddell seals colonies
- ice concentration pictures and extracted lines (ice concentration from IFREMER)

BSH

- import of data and features in the Hydrographic Production Database (HPD)
- creation of the first test paper chart with cartographic layout
- definition of sea ice limits
- delivering of magnetic variation data
- verification and validation of depth data
- printing of the paper charts
- disposition of ENC's and paper charts

Further co-operation

There is planned further co-operation between AWI and BSH to produce INT chart 905 (DE 1700) in the Weddell Sea and corresponding ENC during the next two years.

Contact

Dr. Hans Werner Schenke

Dr. Hans Werner Schenke	phone: +49 (0)471 4831 1222/3
Bathymetry & Geodesy	fax : +49 (0)471 4831 1977
Alfred Wegener Institute	email: Hans-Werner.Schenke@AWI.de
for Polar and Marine Research	
P.O.B. 12 01 61	mobile: +49 (0)170 7844491
27515 Bremerhaven, Germany	priv.: +49 (0)471 200262

Dr. Mathias Jonas

Bundesamt fuer Seeschifffahrt und Hydrographie (BSH)
Dr. Mathias Jonas (N)
Neptunallee 5 Tel: +49 (0) 381 4563-775
18057 Rostock Fax: +49 (0) 381 4563-769
<http://www.bsh.de/> email: mathias.jonas@bsh.de

Sylvia Spohn

Bundesamt fuer Seeschifffahrt und Hydrographie (BSH)
Sylvia Spohn (N2001)
Neptunallee 5 Tel: +49 (0) 381 4563-767
18057 Rostock Fax: +49 (0) 381 4563-769
<http://www.bsh.de/> email: sylvia.spohn@bsh.de
