AWI Bathymetric Chart of the Weddell Sea, Antarctica, 1:1 000 000 at 76°S

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Preferred reference to this map:

Scientific Compilation: Heinrich Hinze
Cartography: Ute Weihmüller & Bernd Hoppmann
Media Factory GbR, Bremerhaven
Printing: Bundesamt für Seeschiffahrt und Hydrographie, Hamburg
Publication: Alfred Wegener Institute, Bremerhaven, 1998

The map projection parameters are in accordance with the regulations of the IOC/IHO GEBCO

Vertical datum: Instantaneous Sea Level

Standard parallel: 76°S

The positional accuracy of bathymetric data, contour lines and features in relation to the graticule is approximately 250 m.

The bathymetric data contained in this chart is evaluated from various data sets of different quality, and, therefore, of varying accuracy. Compilation and contouring are in accordance with the IHO standards (IHB S-44), applied to Antarctic waters. Reported, but unconfirmed or suspect depths were omitted if they conflict with morphologic evidence from other sources.

Category of bathymetric data is indicated in accordance with the International Hydrographic Organization (IHO) S-57 standard. Categories have been determined under the existing constraints, e.g. inhomogeneous data and seabed roughness. Thus, categories for the accuracy of bathymetric data are indicated.

Accuracy of Bathymetric Depths

1. Mean depth error: accuracy e

   ed = a + b \cdot \tan \gamma

   (a=50 m, b=2000 m):

   eh = b + a \cdot \cot \gamma

   However, some suspect data may still be present.

   Despite an automatic accuracy estimation, a classification may reflect how closely the ideal has been approached under the existing constraints.

   An estimated depth accuracy of worse than 200 m, better than 200 m, better than 100 m, and better than 50 m are indicated.

   Due to incomplete survey coverage, dangers may exist, particularly within the 200 metre depth contour. For further information and glaciology, contact the SCAR. For further information on bathymetry, contact the IHB-IOC GEBCO Committee or AWI.