INTERNATIONAL HYDROGRAPHIC ORGANIZATION

## INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION (of UNESCO)

IHO/IOC Form No. 1

## **UNDERSEA FEATURE NAME PROPOSAL**

(See NOTE overleaf)

| Ocean or Sea: So   | cotia Sea   | Name propo   |  |                                     | osed: Kant Knoll  |  |  |
|--|---|--|--|-------------------------------------|---|--|--|
| Coordinates:   | A - of midpoint of  | or summit : Lat. 55°:  | 51'54" \$                                    | S ,                                 | Long. 42°23'26" W   |  |  |
|  |   | kilometres in _  |  |                                     | direction from  |  |  |
| and/or   | <b>B</b> - extremities (i   | f linear feature):   |  |                                     |   |  |  |
|  | Lat<br>Long   |  | } to   | {                                   | Lat<br>Long   |  |  |
| Description (kind  | d of feature) : Koll  |  |  |                                     |   |  |  |
| , ,  | r shaped<br>200 to 3100 m   | eristics (shape, dime<br>Dimensions: 8 km<br>Least depth: 3080                     | Í  |                                     | relief, least depth, steepness, etc.): 3 M)                               |  |  |
| Chart reference:<br>Shown with na<br>Shown but not   | :<br>nme on chart No. :<br>named on chart No                                    | none<br>o.: unknown  |  |                                     | otting Sheet 1,000,000  |  |  |
| The profession<br>Association: to<br>enlightenment;<br>The feature lie<br>seafloor; thus i | al domain of this poprofessional work<br>the teached geograss within an area wh | person: Philosophy, it: Kant was a philosophy, physics etc. at nich demands furthe | but also<br>opher, in<br>the univer<br>geoph | physi<br>ifluen<br>ersity<br>ysical | nced by new mathematical physics and                                      |  |  |
| Short biograph<br>Immanuel Kan   |   | 12 February 1804),   |  |                                     |   |  |  |
|  |   |  |  |                                     | East Prussia. He is regarded as one of the losopher of the Enlightenment. |  |  |

Kant enrolled in the University of Königsberg in 1740, at the age of 16. He studied the philosophy of Leibniz and Wolff under M. Knutsen, a rationalist who was also familiar with the developments of British philosophy

and science and who introduced Kant to the new mathematical physics of Isaac Newton.

Lectures on "Physial Geography" by Kant, continuously from the start of his professorship in 1755 until the end of his teaching in summer 1796; lectures were driven by Kant's own "dictatis" and not by a printed manual. Later, two volumes were edited in 1802: "Immanuel Kant's / physische Geographie." Immanuel Kant researched in philosophy and metaphysics, but he teached geography, physics etc. at the university in Königsberg too.

Quotations by Kant concerning geography: "It is not anything, which cultivates and forms the trained understanding more, as geography." - "Geography is the mother of the sciences!"

Kant wrote numerous philosophy publications, connected to natural sciences and mathematics is one important: The "Metaphysische Anfangsgründe der Naturwissenschaft" in 1786 (Metaphysical Foundations of Natural Science)

Reference inter alia:

http://en.wikipedia.org/wiki/Immanuel\_Kant http://www.bbaw.de/forschung/kant/geo/info.htm

Discovery facts:

Date 14 April 2005 – 17 May 2005 by (individuals or ship) Research Vessel "Polarstern" By means of (equipment): Mapping of swath sonar measurement and compilation of boxed survey Navigation used: GPS Two frequencies Trimble plus other data (gyro, inertial etc.) Estimated positional accuracy in nautical miles: 10 m to 30 m (0.005 M to 0.016 M)

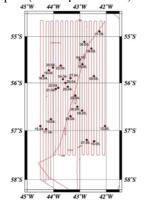
Description of survey (track spacing, line crossing, grid network, etc.): boxed survey

Nature and repository of other survey activities (dredge samples, cores, magnetics, gravity, photographs, etc.): geophysics: magnetics (ship-born; partially plus helicopter-born magnetics), gravity; oceanography: XBT, CTD; geology: cores

Supporting material: enclose, if possible, a sketch map of the survey area, profiles of the features, etc., with reference to prior publication, if any:

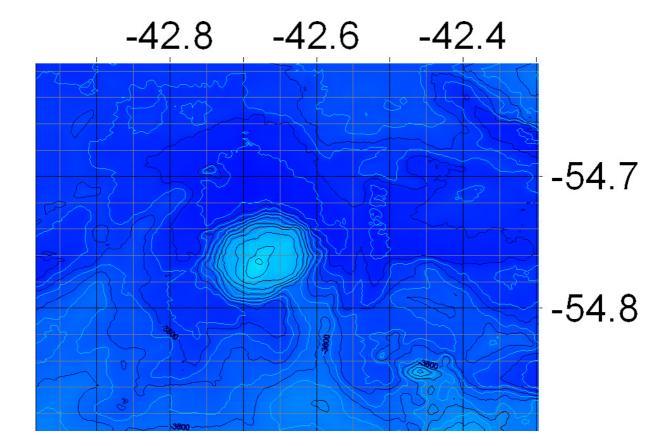
Publication/s: not yet published.

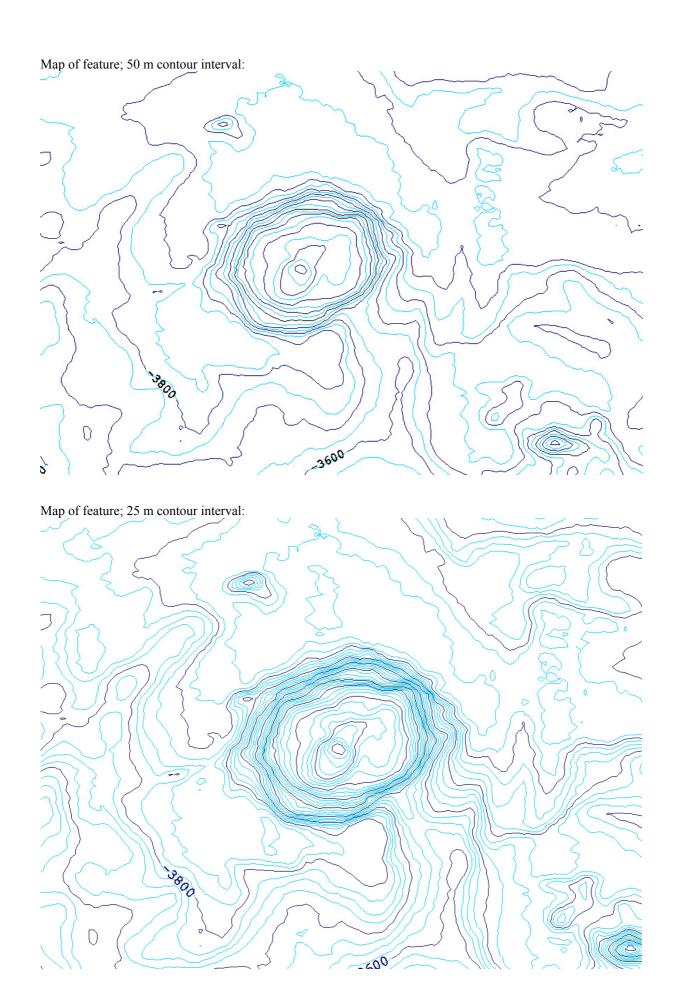
Report about the Antarctic expedition ANT XXII/4 of the research vessel "Polarstern" in 2005 will be published soon; Berichte zur Polarforschung / Reports on Polar Research, Bremerhaven, 2006. Track plot (also separate files, file names: ANTXXII-4-Kursplot.jpg, ANTXXII-4-Profile.jpg):



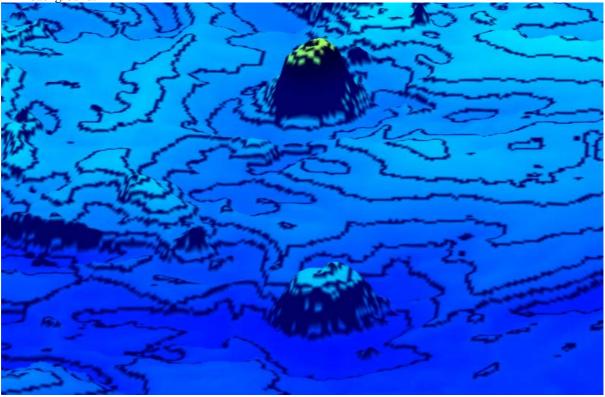
Maps etc. are produced from a DTM of about 300 m grid distance by Surfer and/or Fledermaus software (Golden Software; IVS)); higher resolutions and interpolation (e.g. Delaunay triangulation of swath data) will be processed by AWI soon.

Map of feature; 50 m contour interval:

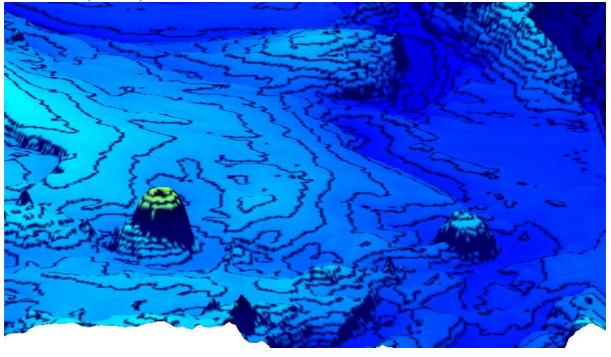




3D perspective view from North, vertical exaggeration, knoll feature is in the foreground, seamount is in the background:



3D perspective view from East, vertical exaggeration, knoll feature is at the right (Northern) side, seamount is at the left (Southern) side:



Submitted by : Dr. Heinrich Hinze Date : 9 May 2006 Concurred in by (if applicable):

Address:

National Authority (if any): Alfred Wegener Institute for Polar and Marine Research (AWI)
Address: AWI, D - 27515 Bremerhaven, Germany

AWI, Van Ronzelen Str. 2, D-27568 Bremerhaven, Germany

**NOTE**: This form should be forwarded, when completed:

- a) If the undersea feature is located in territorial waters:to your "National Authority for Approval of Undersea Feature Names" or, if this does not
  exist or is not known, either to the International Hydrographic Bureau or to the
  Intergovernmental Oceanographic Commission (see addresses below);
- b) If the undersea feature is located in international waters:to the International Hydrographic Bureau or to the Intergovernmental Oceanographic Commission, at the following addresses:

International Hydrographic Bureau 4, quai Antoine 1<sup>er</sup> B.P. 445 MC 98011 MONACO CEDEX <u>Principality of MONACO</u> Fax: +377 93 10 81 40

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