INTERNATIONAL HYDROGRAPHIC ORGANIZATION

Germany; retiree in about 1981, living in Hamburg.

Professional activities:

INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION (of UNESCO)

IHO/IOC Form No. 1

UNDERSEA FEATURE NAME PROPOSAL

(See NOTE overleaf)

Ocean or Sea: Scotia Sea		Name proposed: Schrick Knoll			
Coordinates:	A - of midpoint or summit : Lat. 55	°22'21" S ,	Long. 42°39'07" W		
	kilometres in		direction from		
and/or	B - extremities (if linear feature):				
	Lat Long	} to {	Lat Long		
Description (kind	l of feature) : Knoll				
Identifying or cat	regorizing characteristics (shape, din	nensions, total re	elief, least depth, steepness, etc.):		
Total relief: 27:	shape Dimensions: about 50 to 2020 m Least depth: about a rather circular shape, suggesting	ıt 2020 m	ter (1.9 M)		
	res : is surrounded by moat. Larger seame circular and conical shape, shape sug				
Shown but not	me on chart No.: none named on chart No.: unknown within area covered by chart No.: 5	11 GEBCO Plot	ting Sheet 1,000,000		
Schrick The professiona Association: to Hydrographiscl Officer and Dir sea, navigation, The feature lies	al domain of this person: Position de professional work: Schrick was mer nes Institut), in Hamburg, Germany sector for Hydrography and Data Prography.	termination at sember of the Gern for more than 20 cessing. Schrick boxed survey of	nan Hydrographic Office (Deutsches years, his last position was the Technical was involved in position determination at precise swath data of good quality for		
Short biography	y of person (at November 1999):				
Prof. DrIng. K	Karl Wilhelm Schrick - 26 Februar	y 1921 born in l	Meinerzhagen (30 km NE of Cologne),		

1953 Ph.D. at the university Bonn, Germany. 1953-1958 Research Associate at the Observatory Bonn, Germany; 1958 at Boyden Observatory, Bloemfontein, South Africa; 1958-1967 Technical Officer for Geodetic Astronomy at the Institut fuer Angewandte Geodäsie (IFAG, Institute of Applied Geodesy), Frankfurt am Main, Germany; 1967 - 1977 Technical Officer for Navigation at DHI (Deutsches Hydrographisches Institut, German Hydrographic Office), Hamburg, Germany; 1977-???? (about 1981) Technical Officer and Director for Hydrography and Data Processing at DHI.

Lecturer:

1962-1967 "Astronomy" at the University Mainz, Germany; 1967- ca.1981 "Geodetic Astronomy" and "Positioning at Sea" at the University Hannover, Germany.

Publications inter alia:

Astronomy (1953), Chronometer and position determination by optical measurements of star passages (1959-1973), by Loran C (1970), by artificial satellites (1970), Radio navigation methods in hydrography (1970, 1971), Applied Kalman filter technique (1977), Status of hydrography (1988).

Address:

Schrick, Prof. Dr.-Ing. Karl Wilhelm, Gaensestieg 18, D-22549 Hamburg, Germany.

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)

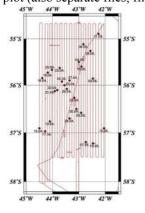
Description of survey (track spacing, line crossing, grid network, etc.): boxed survey

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:

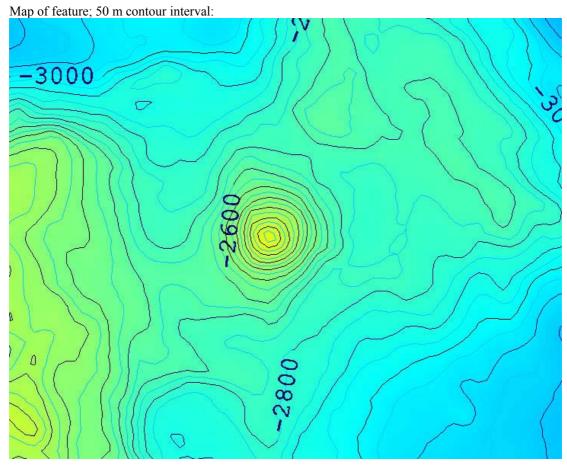
Publication/s: not yet published.

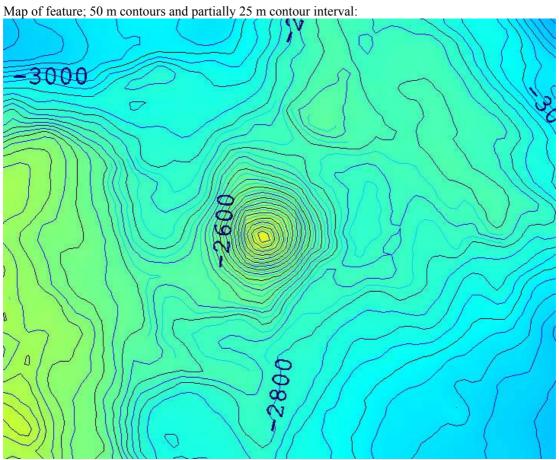
Report about the Antarctic expedition ANT XXII/4 of the research vessel "Polarstern" in 2005 will be published soon; Berichte zur Polarforschung / Reports on Polar Research, Bremerhaven, 2006. Track plot (also separate files, file names: ANTXXII-4-Kursplot.jpg, ANTXXII-4-Profile.jpg):

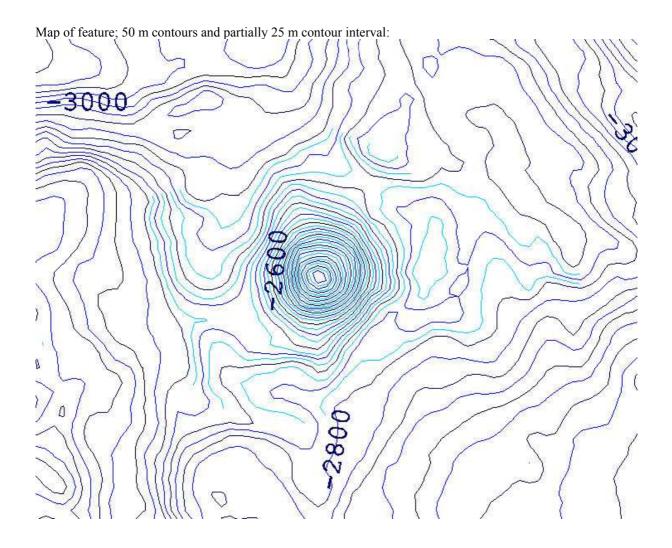


Maps etc. are produced from a DTM of about 300 m grid distance by Surfer and/or Fledermaus software (Golden Software; IVS)); higher resolutions and interpolation (e.g. Delaunay triangulation of swath data) will be processed by AWI soon.

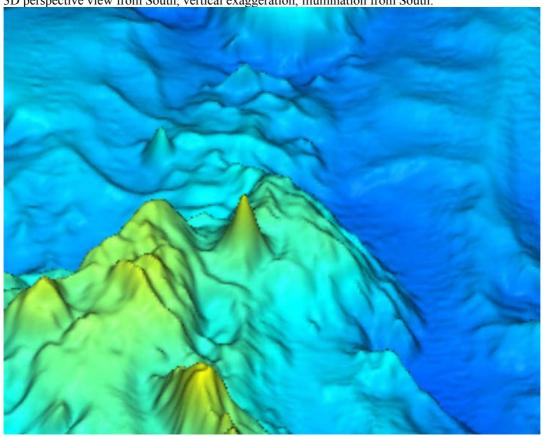
Map of feature; 100 m contour interval, red + marker at position of least depth: $-42.8 \quad -42.6$ -55.3

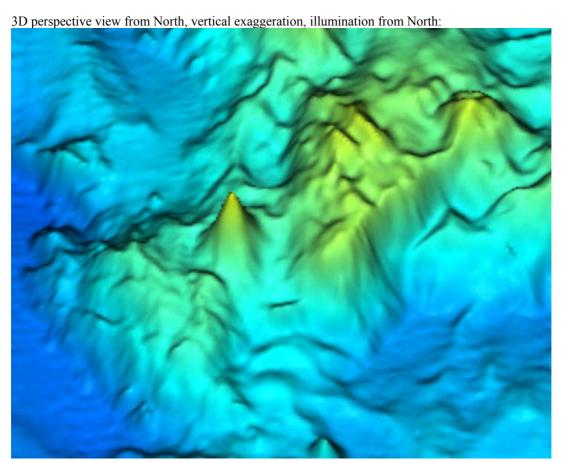






3D perspective view from South, vertical exaggeration, illumination from South:





Submitted by : Dr. Heinrich Hinze Date : 9 May 2006

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

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

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^{er}

B.P. 445

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Intergovernmental Oceanographic Commission

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Fax: +33 1 45 68 58 12 E-mail: <u>info@unesco.org</u>