INTERNATIONAL HYDROGRAPHIC **ORGANIZATION**

INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION (of UNESCO)

UNDERSEA FEATURE NAME PROPOSAL (Sea NOTE overleaf)

Note: The boxes will expand as you fill the form.

Name Proposed:	Varenius Hills		Ocean o	r Sea:	Arctic Ocea	n	
Point Point	defines the feature (Y Line P	res/No) : olygon	: Multiple points	Multiple lin	es* Multi _l		
			Yes		1 70		
* Geometry should b	e clearly distinguishe	ed when _i	providing the coordinat	tes below.			
Coordinates:		Lat. (e.g. 63°32.6′N) 79°08′ N 79°11′ N		Long. (e.g. 046°21.3′W) 0°57′ W 1°01.8′ W			
Coordinates.			77 11 10	_			
	Maximum De	pth:	2,600 m	Steep	ness :	10°	
Feature Description:	Minimum Depth:		2,029 m/2,134 m	Shape :		Oval shape,	
	Total Relief :		~ 500 m	Dimen	sion/Size :	conic form 20 km x 5 km	
Associated Fea	tures:	Locate	ed 15 naut. miles NW	of the Gre	enland-Spitsbe	ergen Sill	
		Shown	Named on Map/Chart:		581-20-04 (0	n Plotting Sheet 581)	
Chart/Map References:		Shown Unnamed on Map/Chart: Within Area of Map/Chart:					
Reason for Choice person, state how as feature to be named	ssociated with the		ard Varenius (1622-1 ography "Geographic			of modern	
Discovery Facts:		Discovery Date: Discoverer (Individual, Ship):			May 2004 RV "Polarstern" T. Hartmann Expeditions ARK-IV/3 1987, ARK-XVIII/2 2002		
Supporting Survey Data, including Track Controls:		Date of Survey: Survey Ship: Sounding Equipement: Type of Navigation: Estimated Horizontal Accuracy (nm Survey Track Spacing: Supporting material is submitted as		, , ,	RV "Polarstern" Multibeam Hydrosweep DS-2 GPS (SPS) m): < 100 m Full coverage of the feature as Annex in analog and digital form.		
Proposer(s):		Name(s): Date: E-mail:			Hans Werner Schenke 27 July 2010 Hans-Werner.Schenke@awi.de		

1	Organization and Address:	Alfred Wegener Institute for Polar and
		Marine Research, POB 120161,
		Bremerhaven, Germany
	Concurrer (name, e-mail, organization	
	and address):	

Remarks:

The original proposal from 14 May 2004 is withdrawn, it is replaced by this name proposal

NOTE: This form should be forwarded, when completed:

- a) If the undersea feature is located <u>inside the external limit</u> of the territorial sea :to your "National Authority for Approval of Undersea Feature Names" (see page 2-9) or, if this
 does not exist or is not known, either to the IHB or to the IOC (see addresses below);
- b) If at least 50 % of the undersea feature is located <u>outside the external limits</u> of the territorial sea :- to the IHB or to the IOC, at the following addresses :

International Hydrographic Bureau (IHB)

4, Quai Antoine 1er

B.P. 445

MC 98011 MONACO CEDEX <u>Principality of MONACO</u> Fax: +377 93 10 81 40

E-mail: <u>info@ihb.mc</u>

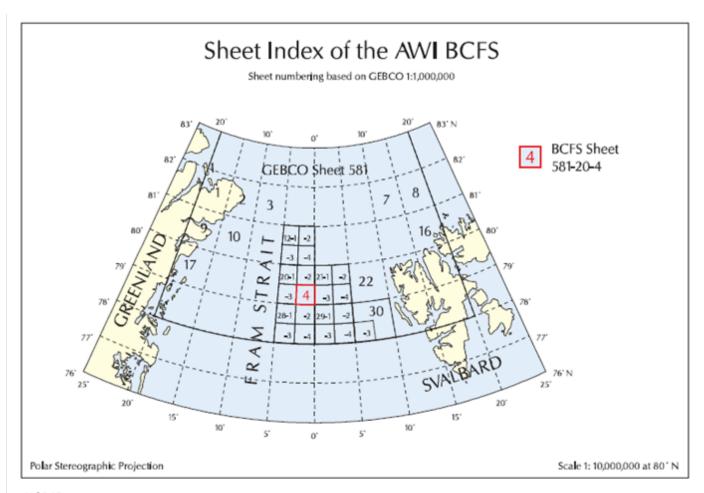
Intergovernmental Oceanographic Commission (IOC)

UNESCO

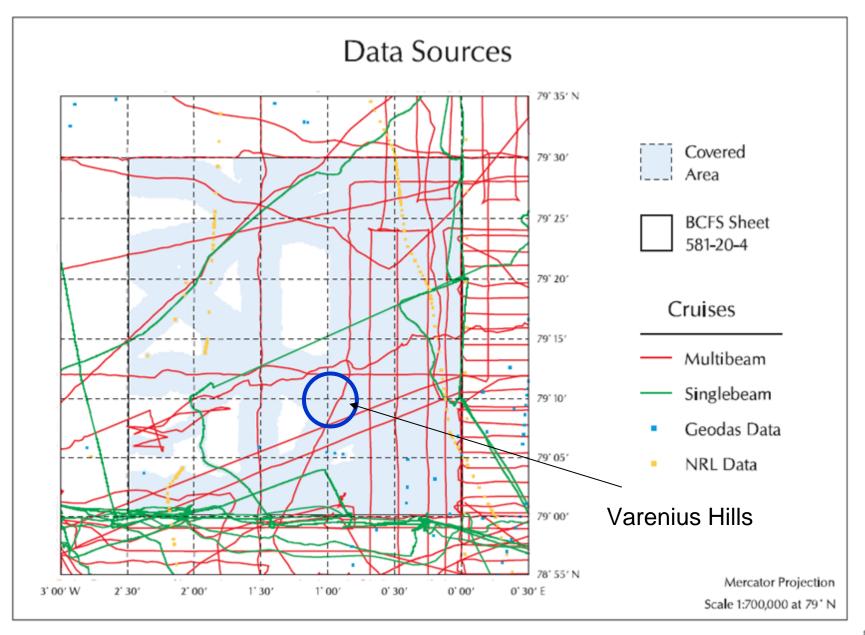
Place de Fontenoy 75700 PARIS

France

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



AWI BCFS 581-20-4



Data Sources and References

Data Sources

RV "Polarstern" cruises (Singlebeam):

ARK XVI/2, ARK XV/3, ARK XIV/2, ARK IX/3, ARK IX/2, ARK IX/1, ARK VII/2.

RV "Polarstern" cruises (Multibeam): ARK XIX/4, ARK XVIII/2, ARK XVIII/1,

ARK XV/2, ARK XIII, ARK XI/2, ARK X/I, ARK VIII/3, ARK VIII/4, ARK IV/3, ARK IV/1, ARK III/3, ARK III/2, ARK III/4.

Geodas and NRL data

Data Editing

After the depths had been edited, contour lines with 50m intervalls were generated. These contour lines were checked and then transferred to a raster. From of this DTM, contours with 20m interval were generated.

Data Processing

Depth editing, DTM modeling, GIS processing, and cartography by Thomas Hartmann.

Preferred Reference to this Map

Hartmann, T. & Klenke, M. (Eds.): AWI Bathymetric Chart of the Fram Strait 1:100,000. Sheet 581-20-4 (AWI BCFS 581-20-4), Alfred Wegener Institute for Polar and Marine Research, Bremerhaven, 2004.

References

Geodas Volume 1, Version 4.1. U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA).

NRL: U.S. Nava Research Laboratory.

Vertical reference system: Mean sea level (MSL). Vertical datum: Instantaneous sea level.

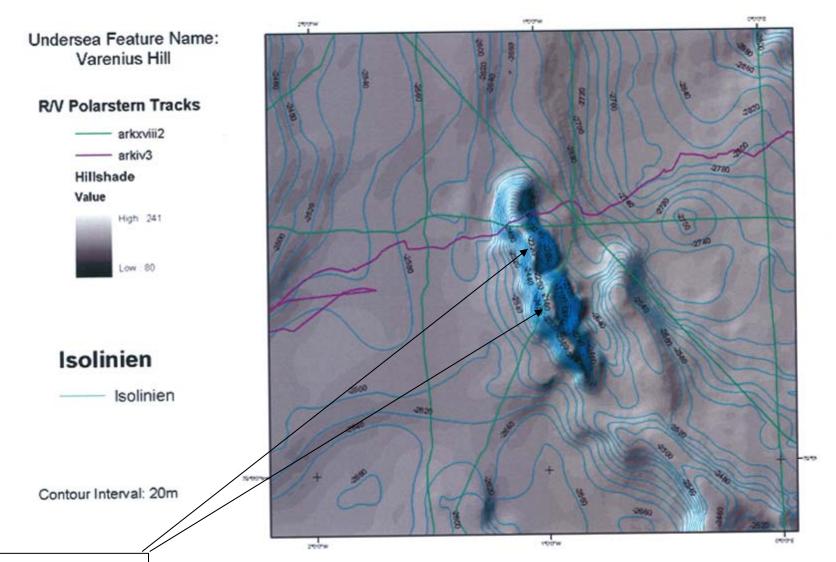
Depth is shown in meters assuming a sound velocity in water of 1500 m/s.

To achieve depth in feet multiply by 3.2808. To achieve depth in fathoms multiply by 0.5468.

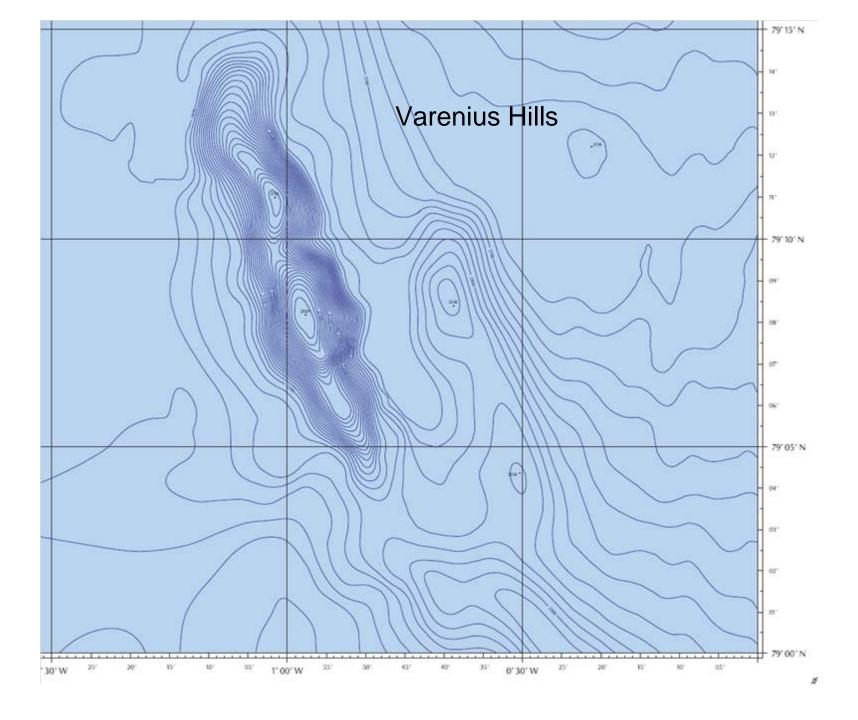
This product is not intended for navigational purposes.

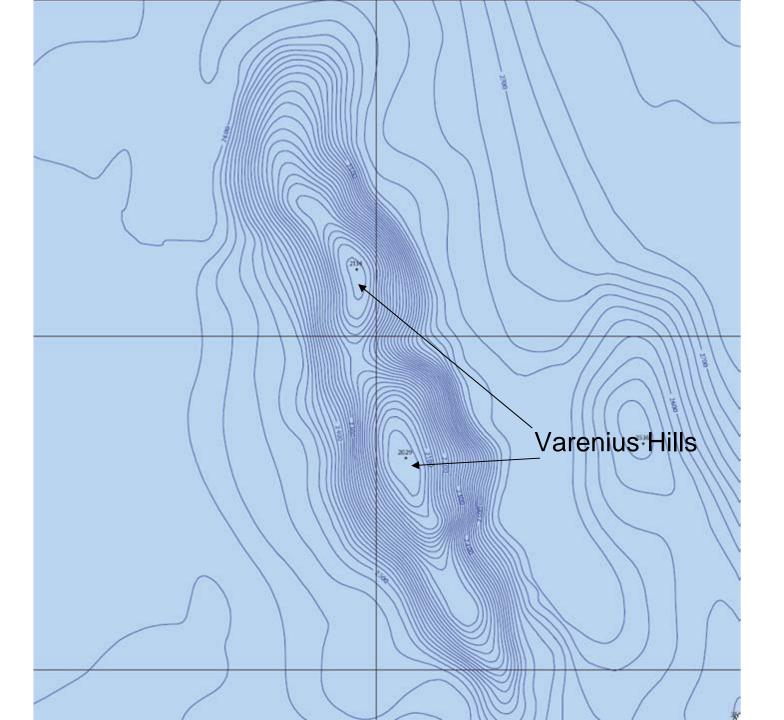
Reproduction in any form without the written permission of the publisher is prohibited.

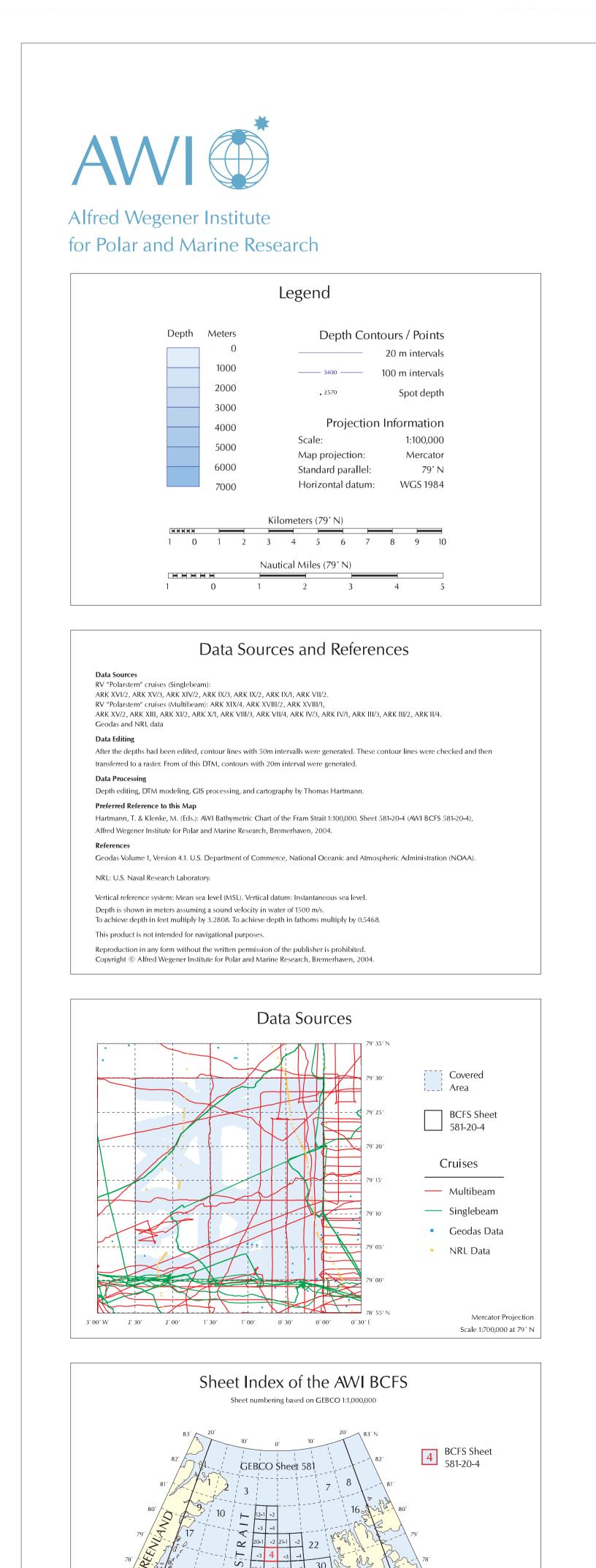
Copyright @ Alfred Wegener Institute for Polar and Marine Research, Bremerhaven, 2004.



Varenius Hills







Polar Stereographic Projection

AWI BCFS 581-20-4

Scale 1: 10,000,000 at 80° N

