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:	Hegemann Hill	Ocean or Sea:	Arctic Ocean

Geometry that best defines the feature (Yes/No) :

Point	Line	Polygon	Multiple points	Multiple lines*	Multiple polygons*	Combination of geometries*
Yes						

** Geometry should be clearly distinguished when providing the coordinates below.*

	Lat. (e.g. 63°32.6'N)	Long. (e.g. 046°21.3'W)
Coordinates:	79°33.8' N	2°53.9' W

Feature Description:	Maximum Depth:	2,500 m	Steepness :	~ 8°
	Minimum Depth :	1,976 m	Shape :	Oval shape, conic form
	Total Relief :	~ 500 m	Dimension/Size :	8 km x 4 km

Associated Features:	Located ~ 35 naut. miles W of Molloy Ridge

Chart/Map References:	Shown Named on Map/Chart:	581-20-01 (on Plotting Sheet 581)
	Shown Unnamed on Map/Chart:	
	Within Area of Map/Chart:	

Reason for Choice of Name (if a person, state how associated with the feature to be named):	Paul Friedrich August Hegemann, born in Hooksiel, Oldenburg, was the Captain of the 30 m long German supply ship "HANSA" that got lost at the second German North-Polar-Expedition in the year 1869 near East Greenland. The crew of the *Hansa* consisted of 13 men. In October 1869, the ship was milled by the ice and finally sank on October 22 at a position 70°32'N, 21°W approximately 10 km from the East Greenland coast. The crew managed to survive the winter in a shelter, while drifting on the sea ice southward along the eastern coast of Greenland. In June 1870, the crew got to the coast by boat and reached the Moravian *Herrnhut* mission at Frederiksdal/Friedrichsthal near Cape Farewell, from where they got back to Germany.

Discovery Facts:	Discovery Date:	May 2004
	Discoverer (Individual, Ship):	RV "Polarstern" T. Hartmann Expeditions ARK-XI/2 1994 ARK-XIII/3 1997 ARK-XVIII/2 2002

Supporting Survey Data, including Track Controls:	Date of Survey:	div.
	Survey Ship:	RV "Polarstern"
	Sounding Equipement:	Multibeam Hydrosweep DS-2
	Type of Navigation:	GPS (SPS)

	Estimated Horizontal Accuracy (nm):	< 100 m
	Survey Track Spacing:	Full coverage of the feature
	Supporting material is submitted as Annex in analog and digital form.	

Proposer(s):	Name(s): Date: E-mail: Organization and Address: Concurrer (name, e-mail, organization and address):	Hans Werner Schenke 27 July 2010 Hans-Werner.Schenke@awi.de Alfred Wegener Institute for Polar and Marine Research, POB 120161, Bremerhaven, Germany

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 inside the external limit 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);

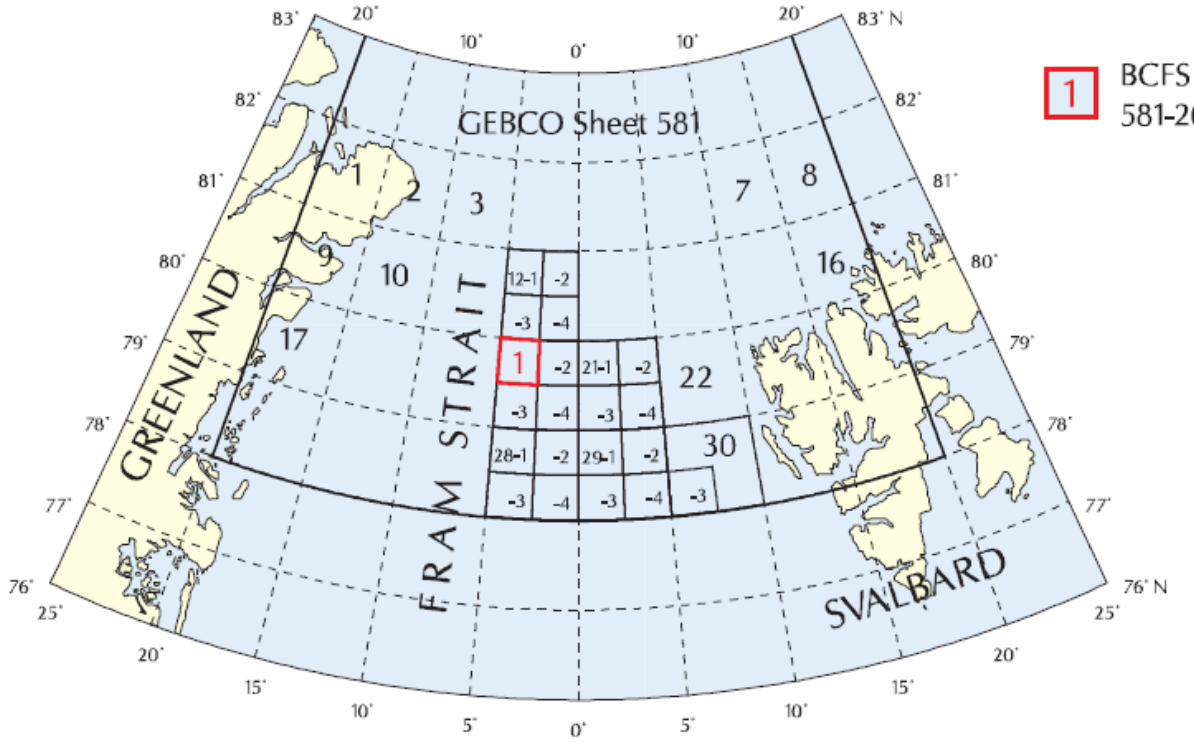
b) If at least 50 % of the undersea feature is located outside the external limits of the territorial sea :-
to the IHB or to the IOC, at the following addresses :

International Hydrographic Bureau (IHB) 4, Quai Antoine 1er B.P. 445 MC 98011 MONACO CEDEX Principality of MONACO Fax: +377 93 10 81 40 E-mail: info@ihb.mc	Intergovernmental Oceanographic Commission (IOC) UNESCO Place de Fontenoy 75700 PARIS France Fax: +33 1 45 68 58 12 E-mail: info@unesco.org

AWI Bathymetric Chart of the Fram Strait, 1:100 000 at 79° N

Sheet Index of the AWI BCFS

Sheet numbering based on GEBCO 1:1,000,000

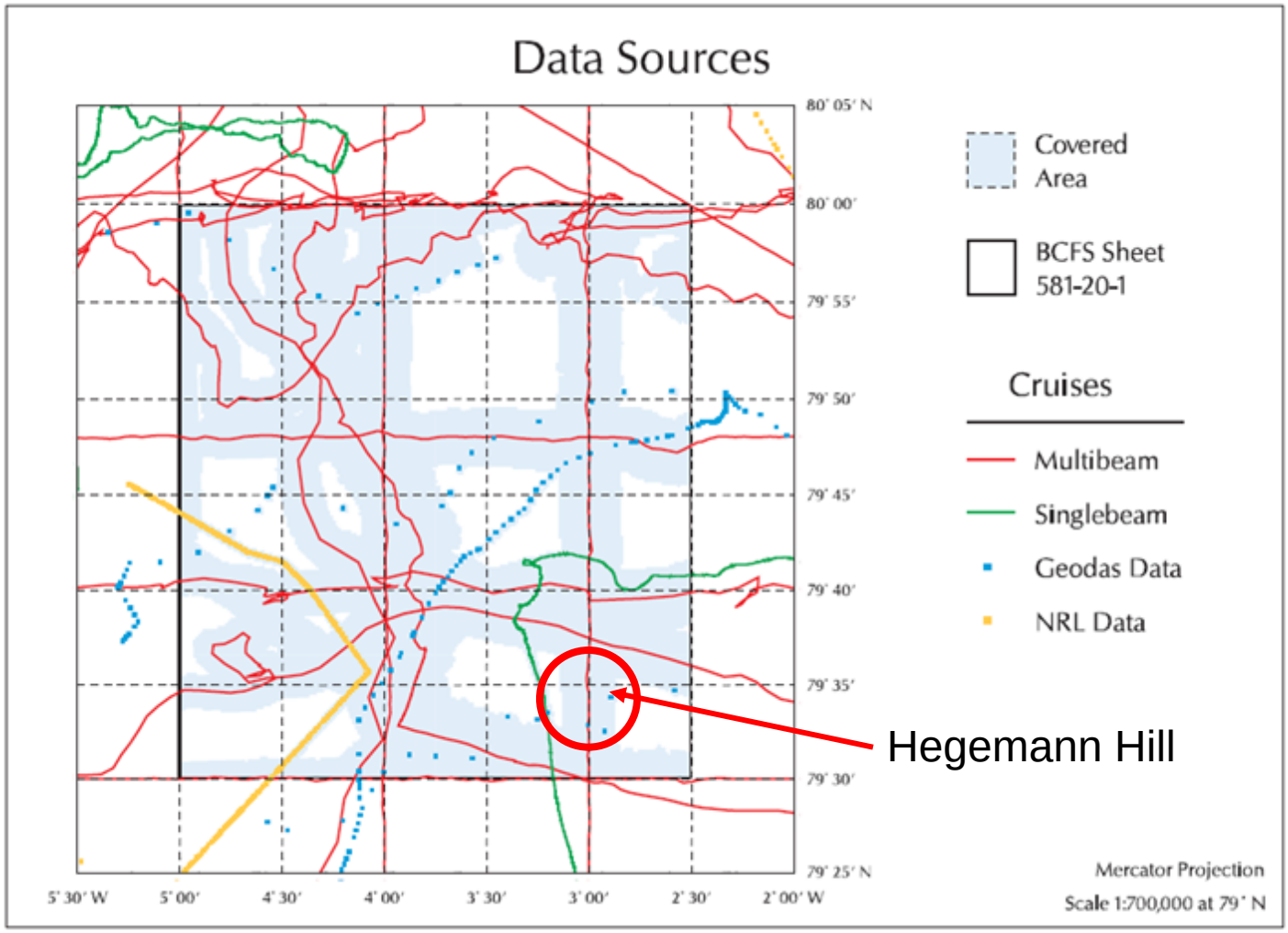


1 BCFS Sheet 581-20-1

Polar Stereographic Projection

Scale 1: 10,000,000 at 80° N

AWI BCFS 581-20-1


Data Sources
80° 05′ N
80° 00′
79° 55′
79° 50′
79° 45′
79° 40′
79° 35′
79° 30′
79° 25′ N
5° 30′ W
5° 00′
4° 30′
4° 00′
3° 30′
3° 00′
2° 30′
2° 00′ W
Covered Area
BCFS Sheet 581-20-1
Cruises
Multibeam
Singlebeam
Geodas Data
NRL Data
Hegemann Hill
Mercator Projection
Scale 1:700,000 at 79° N

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/1, ARK VIII/3, ARK VII/4, ARK IV/3, ARK IV/1, ARK III/3, ARK III/2, ARK II/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 581-20-1 (AWI BCFS 581-20-1), 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. Naval 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.

Undersea Feature Name:
Hegemann Hill

R/V Polarstern Multibeam

- arkxviii2
- arkxiii3
- arkxi2

Hillshade

Value

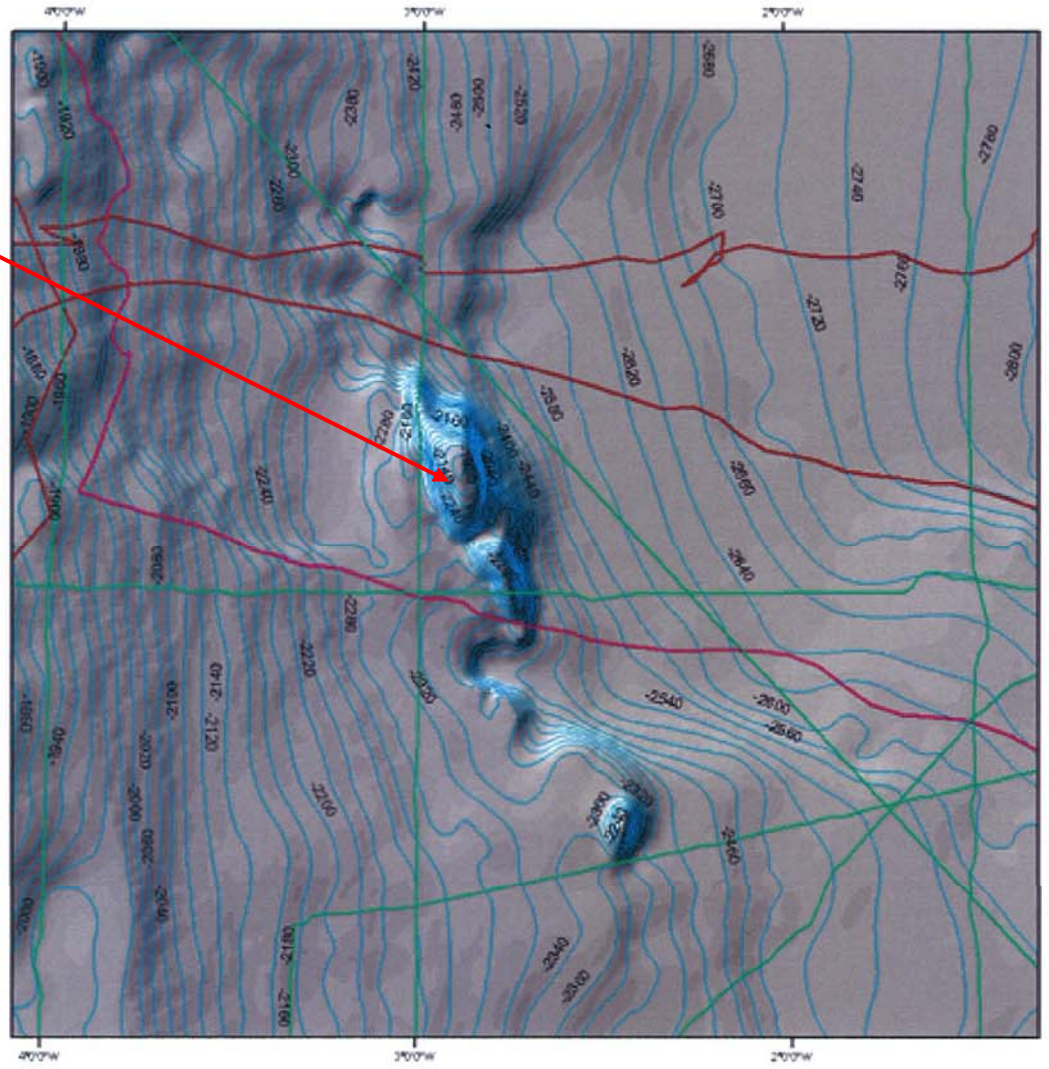
High : 241

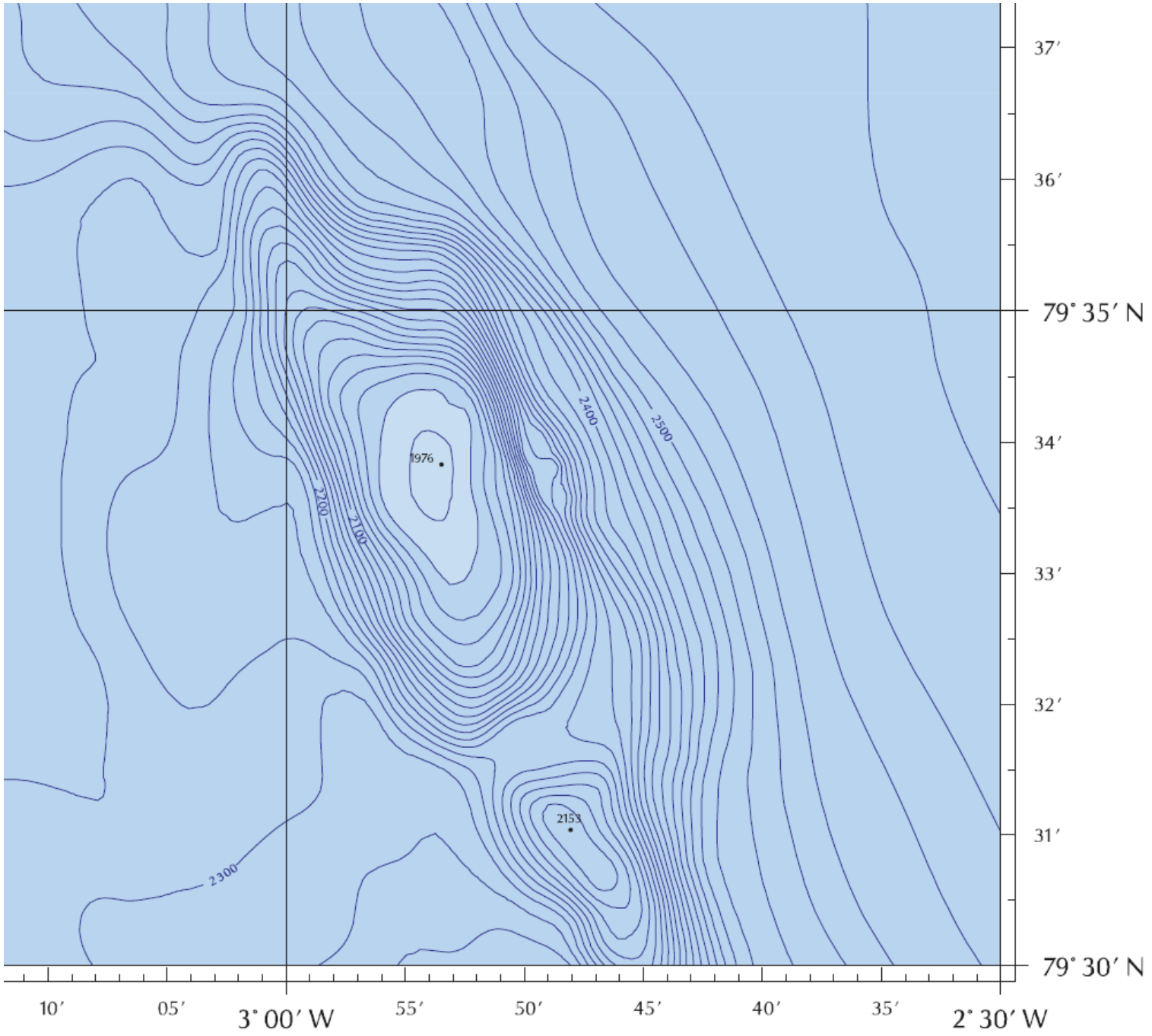
Low : 80

Isolinien

Isolinien

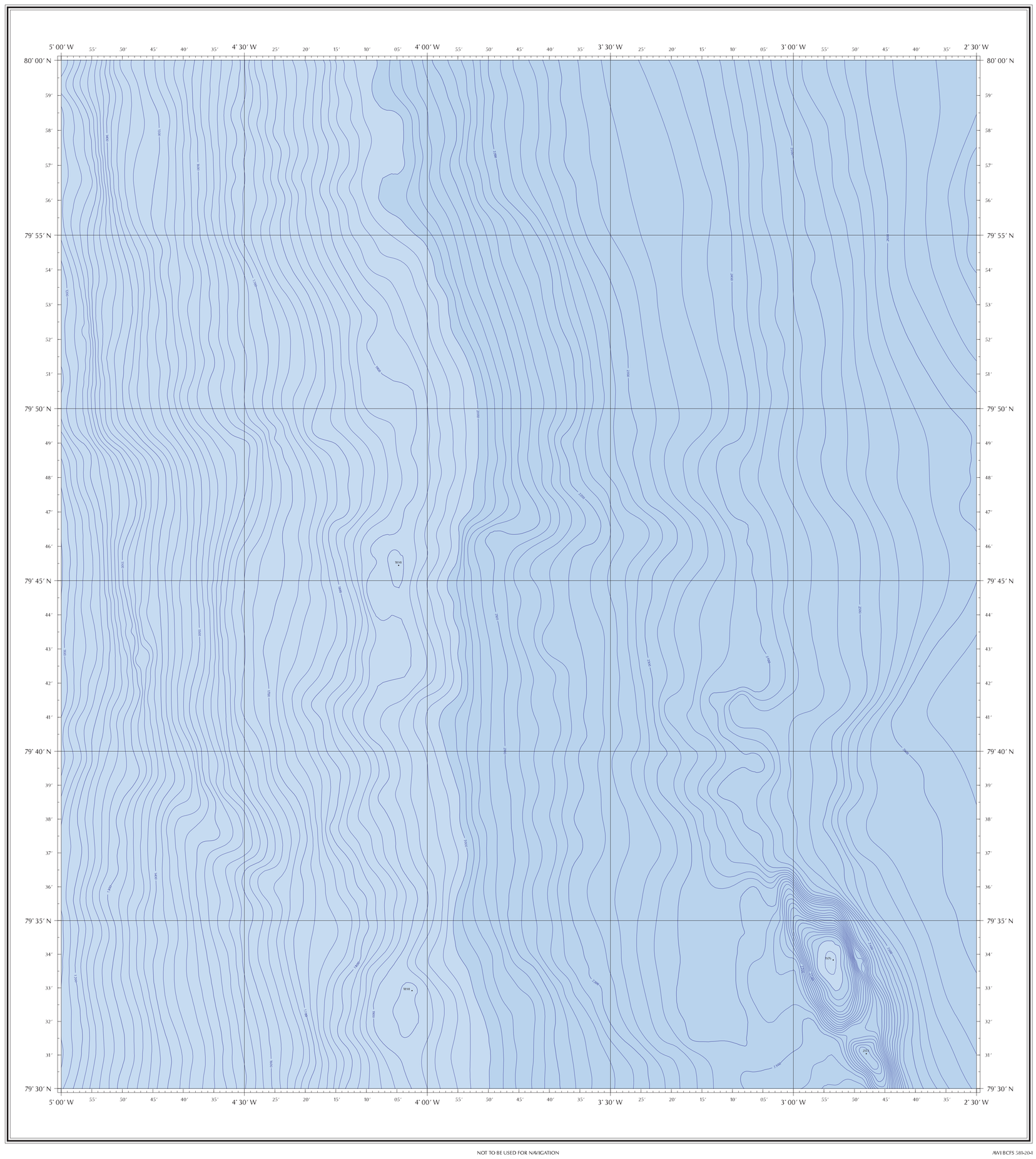
Contour Interval: 20m




37′
36′
79° 35′ N
34′
33′
32′
31′
79° 30′ N
2400
2500
1976
2200
2100
2153
2300
10′
05′
3° 00′ W
55′
50′
45′
40′
35′
2° 30′ W

AWI Bathymetric Chart of the Fram Strait, 1:100 000 at 79° N

AWI BCFS 581-20-1



Alfred Wegener Institute
for Polar and Marine Research

Legend

Depth / Meters

Depth	Meters
	0
	1000
	2000
	3000
	4000
	5000
	6000
	7000

Depth Contours / Points

20 m intervals

3400 — 100 m intervals

2570 — Spot depth

Projection Information

Scale:	1:100,000
Map projection:	Mercator
Standard parallel:	79° N
Horizontal datum:	WGS 1984

Kilometers (79° N)

1 0 1 2 3 4 5 6 7 8 9 10

Nautical Miles (79° N)

1 0 1 2 3 4 5

Data Sources and References

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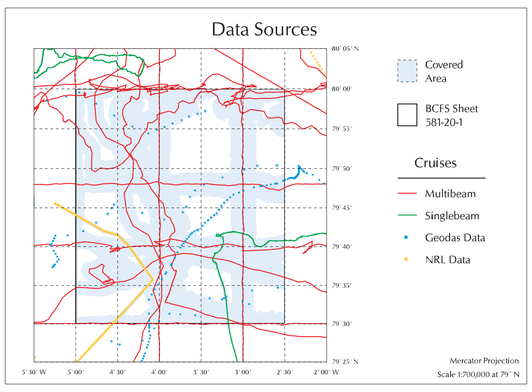
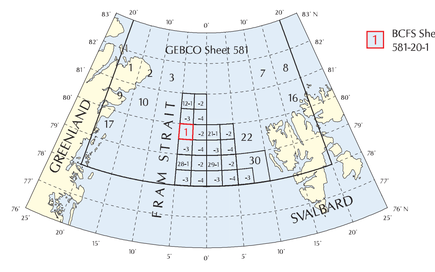


Mercator Projection
Scale 1:700,000 at 79° N

Sheet Index of the AWI BCFS

Sheet numbering based on GEBCO 1:1,000,000



Polar Stereographic Projection
Scale 1: 10,000,000 at 80° N

NOT TO BE USED FOR NAVIGATION

AWI BCFS 581-20-1