

UNDERSEA FEATURE NAME PROPOSAL
(Sea NOTE overleaf)

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

Name Proposed: **Polarstern Trough** Ocean or Sea: **Central Scotia Sea**

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:	-57°15.4 S	-42°38.5 W
	-56°43.5 S	-44°13.0 W
	-56°10.5 S	-44°11.5 W
	-56°17.2 S	-43°48.4 W
	-56°21.3 S	-43°09.8 W
	-56°23.2 S	-42°57.3 W
	-56°14.1 S	-42°34.9 W
	-56°02.6 S	-42°19.6 W
	-56°40.6 S	-42°15.6 W

Feature Description:	Maximum Depth:	4,605 m	Steepness :	38°
	Minimum Depth :	1,905 m	Shape :	Wide and long depression in E-W direction
	Total Relief :	2,700 m	Dimension/Size :	100 x 70 km²

Associated Features: **450 km SW of South Georgia**

Chart/Map References:	Shown Named on Map/Chart:	
	Shown Unnamed on Map/Chart:	GEBCO 5.16, GDA Vers. 2
	Within Area of Map/Chart:	

Reason for Choice of Name (if a person, state how associated with the feature to be named):	During the Antarctic Expedition ANT XXII/4 the German ice-breaking RV Polarstern conducted a complete areal survey of this area in order to study the potential field (magnetics, gravity, bathymetry) in the Central Scotia Sea
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Discovery Facts:	Discovery Date:	April 2005
	Discoverer (Individual, Ship):	Dr. Hans Werner Schenke, Polarstern Expedition ANT XXII/4

Supporting Survey Data, including Track Controls:	Date of Survey:	April 2005
	Survey Ship:	RV Polarstern
	Sounding Equipment:	Multibeam, Hydrosweep DS-2
	Type of Navigation:	D-GPS
	Estimated Horizontal Accuracy (nm):	< 10 m
	Survey Track Spacing:	5.5 km
		Supporting material can be submitted as Annex in analog or digital form.

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

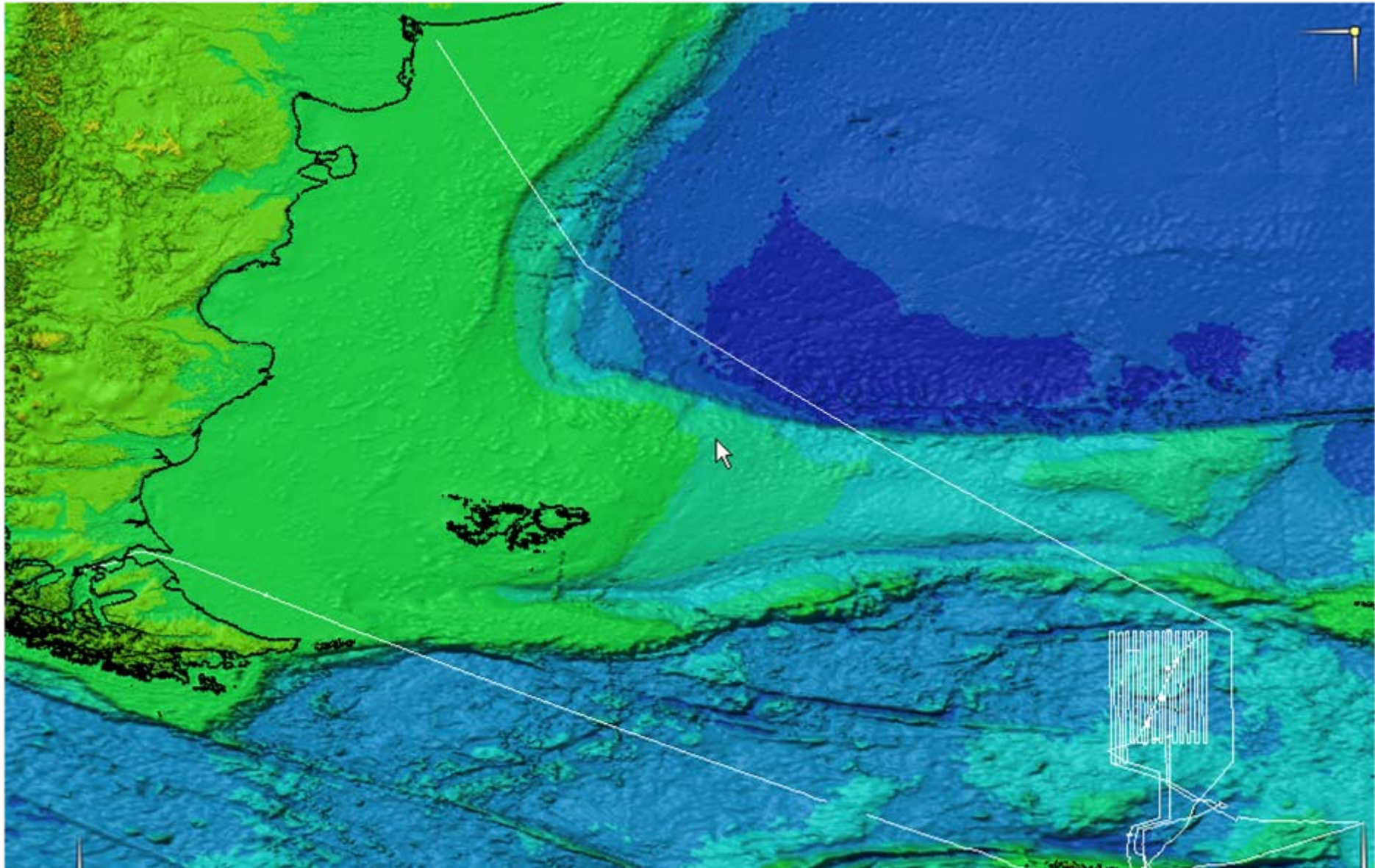
Remarks:

NOTE : This form should be forwarded, when completed :

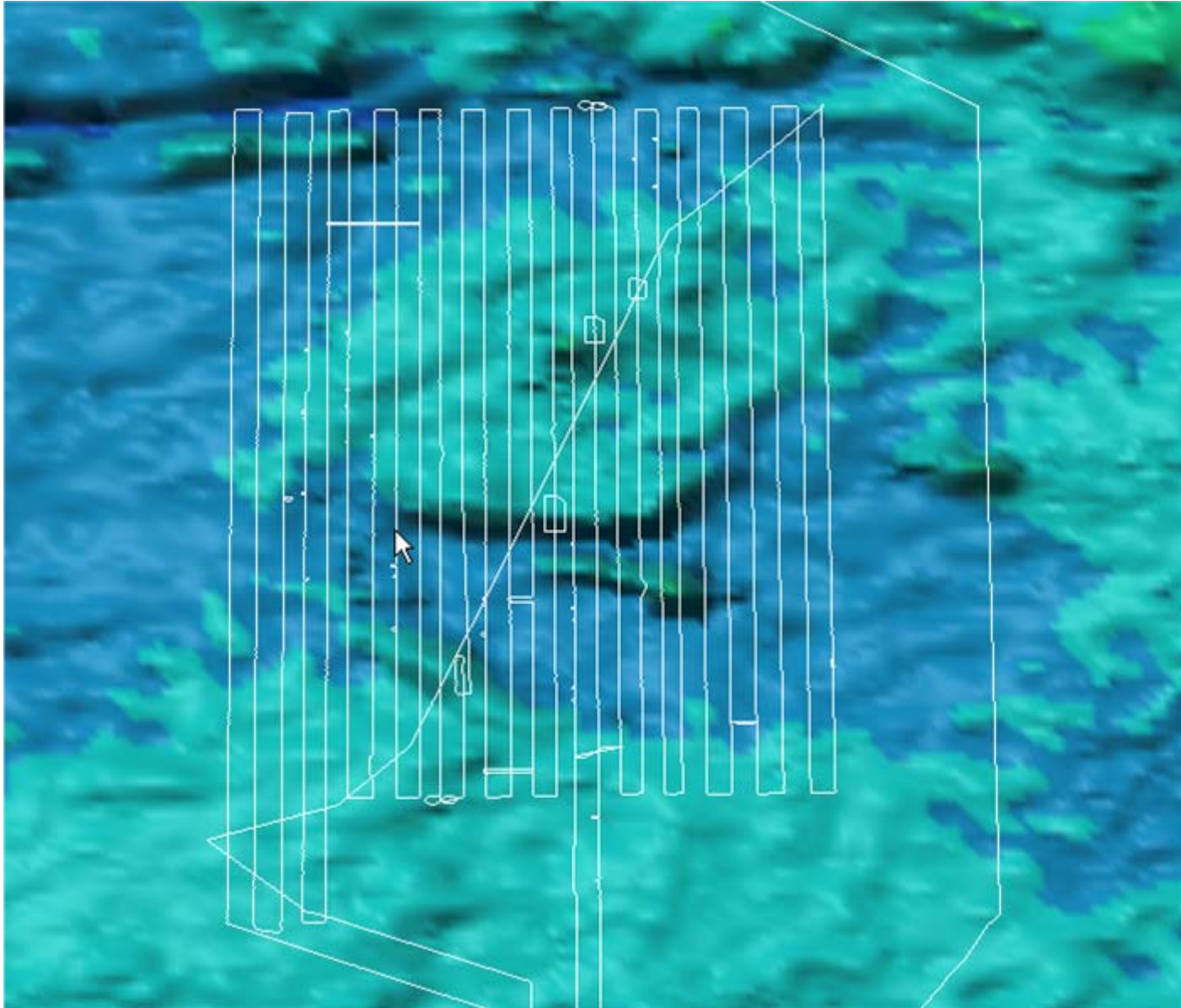
- a) **If the undersea feature is located inside the external limit of the territorial sea :-**
to your "National Authority for Approval of Undersea Feature Names" (see page 2-9) or, if this does not exist or is not known, either to the IHB or to the IOC (see addresses below);
- b) **If at least 50 %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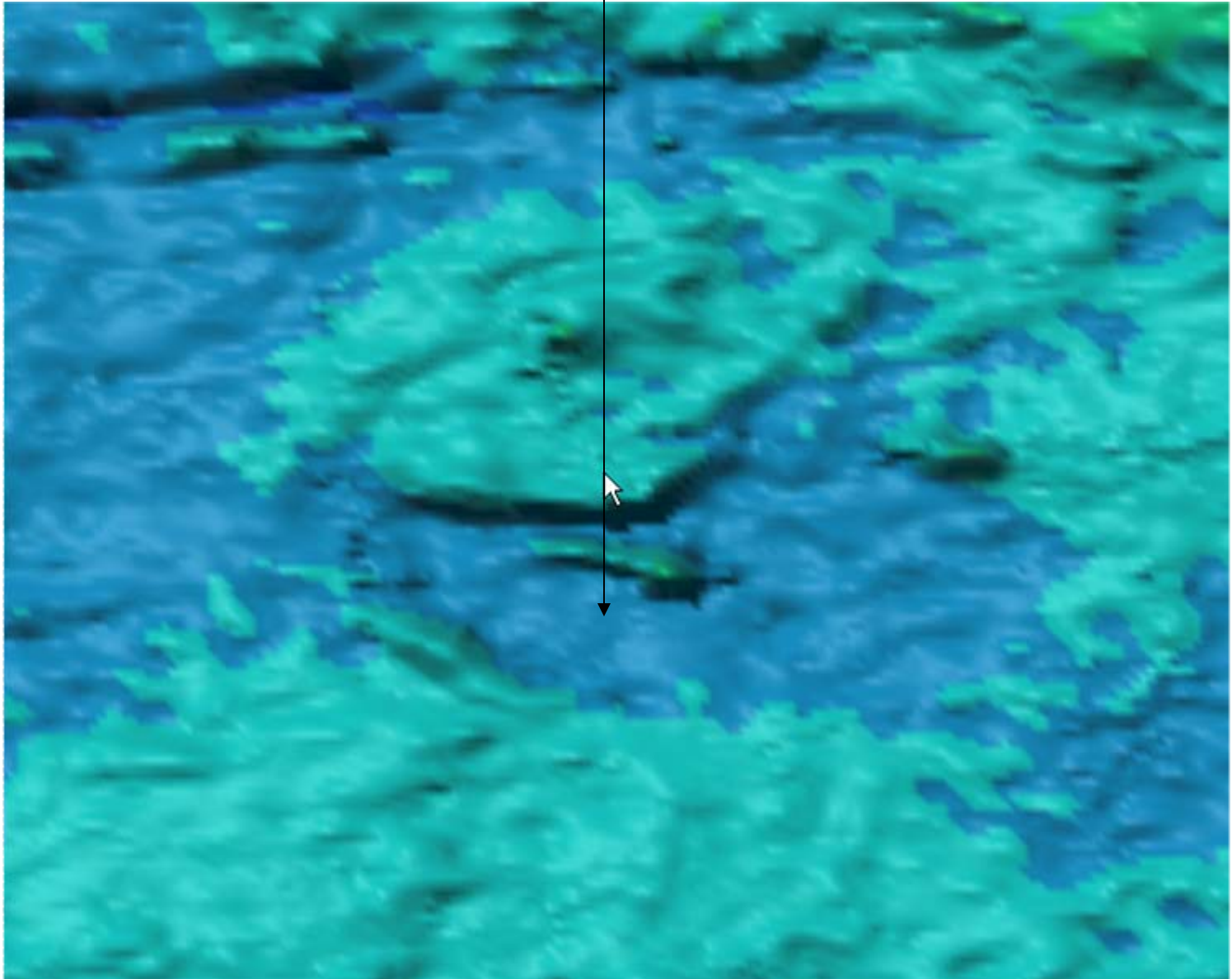
Polarstern Trough



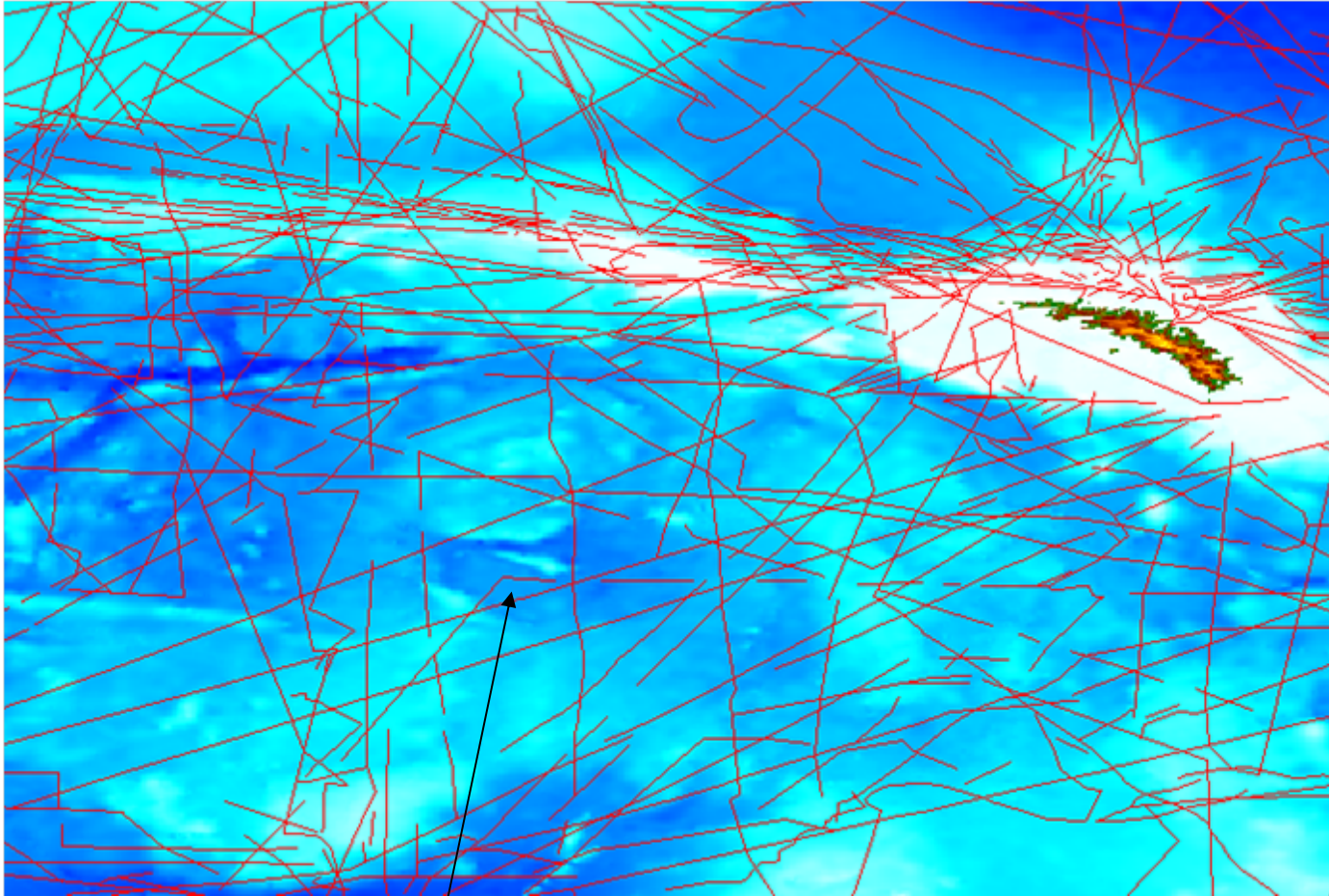
Polarstern Trough



Polarstern Trough

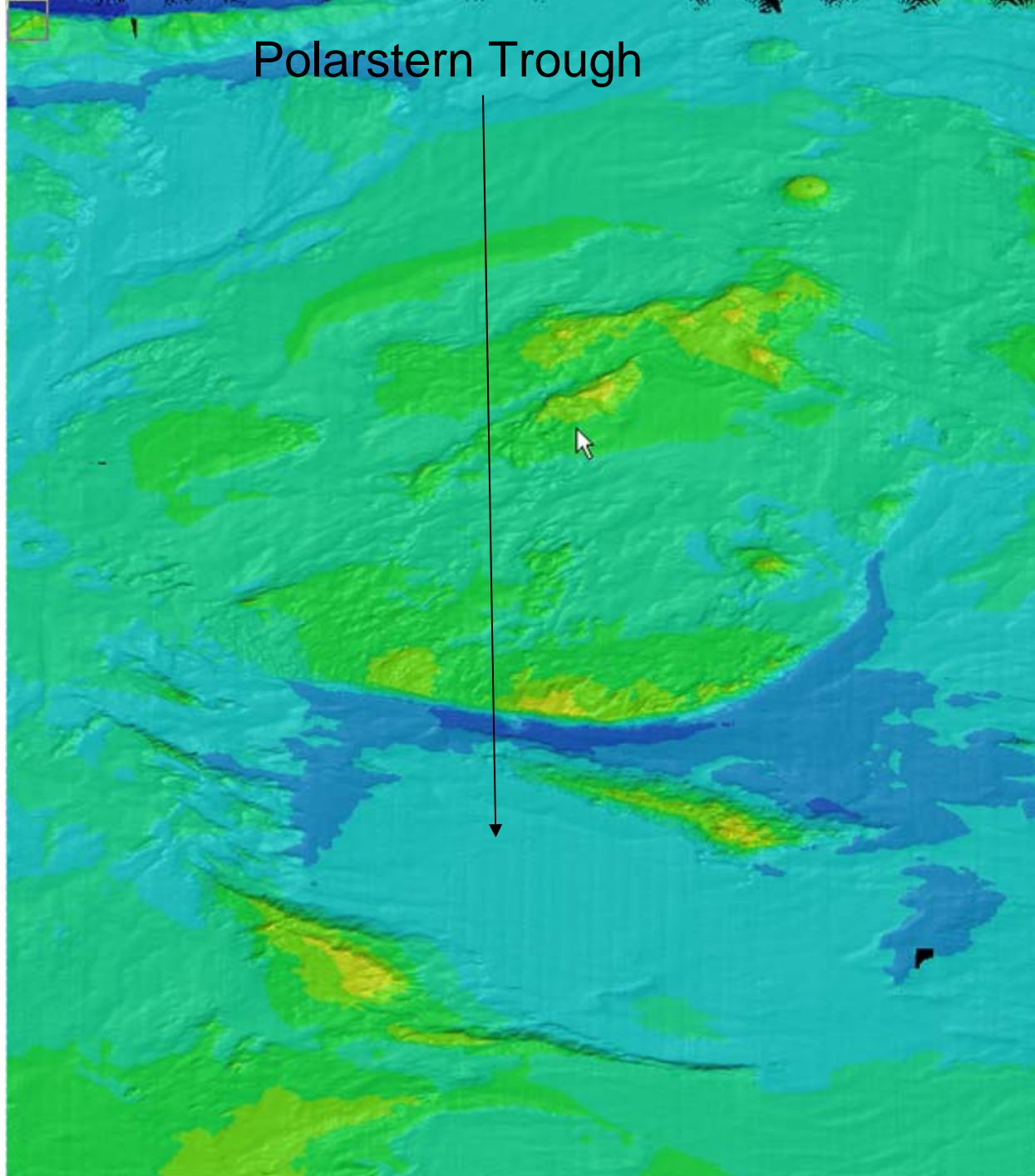


GEBCO Digital Atlas Vers. 2



Polarstern Trough

Polarstern Trough

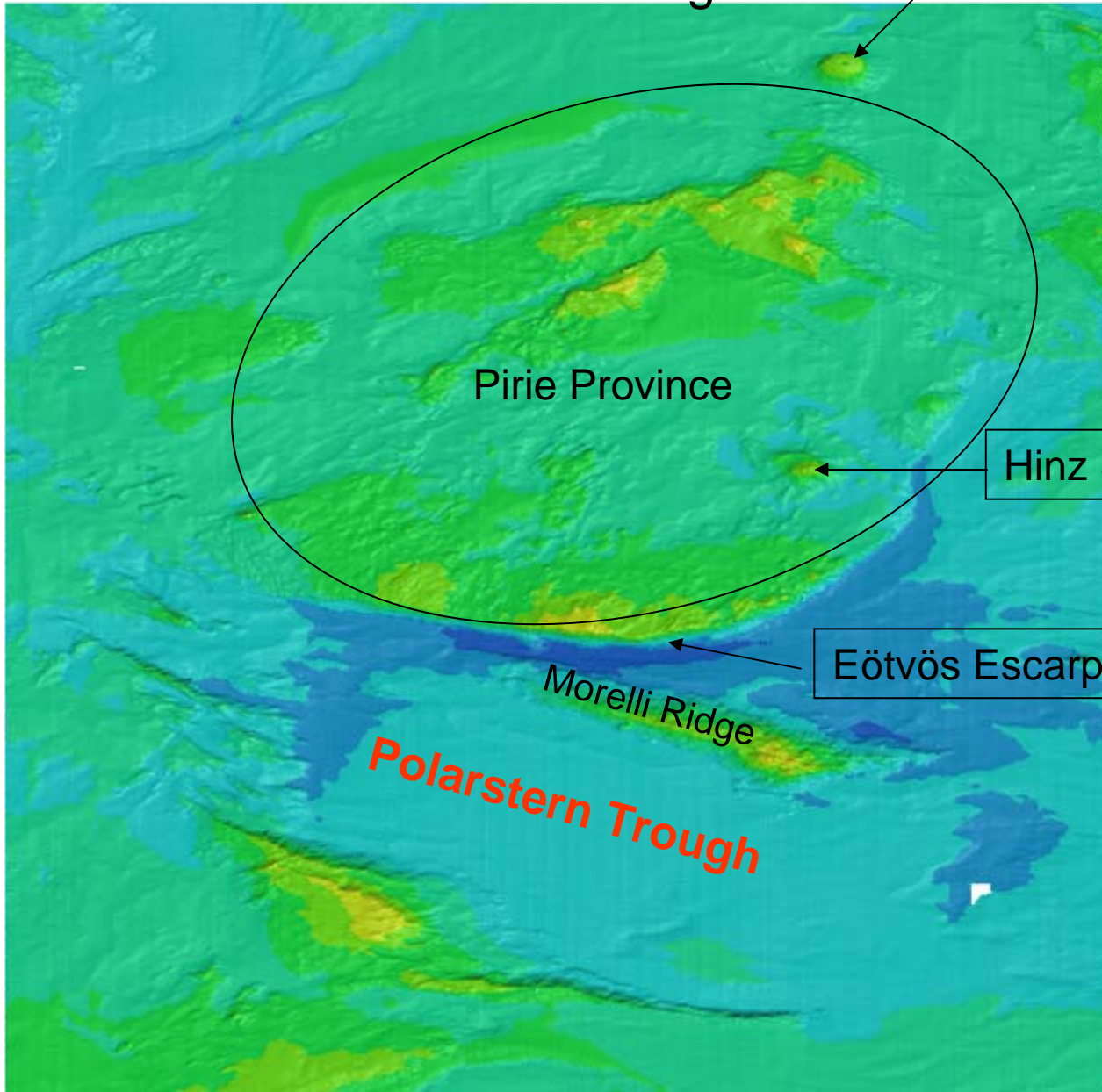


New name proposals:

Polarstern Trough

Kurentsova Seamount

New names
in red color



Pirie Province

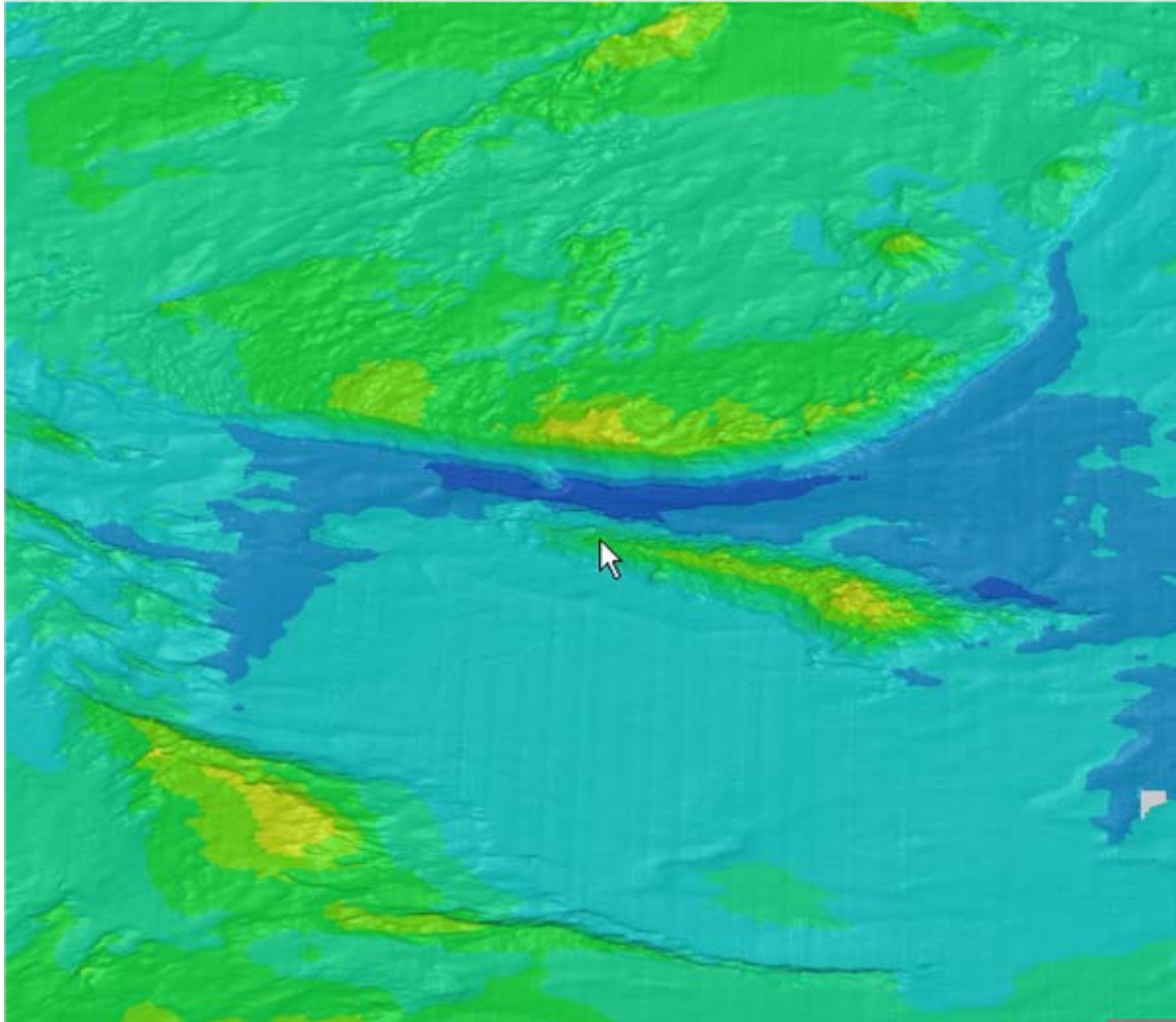
Hinz Seamount

Eötvös Escarpment

Morelli Ridge

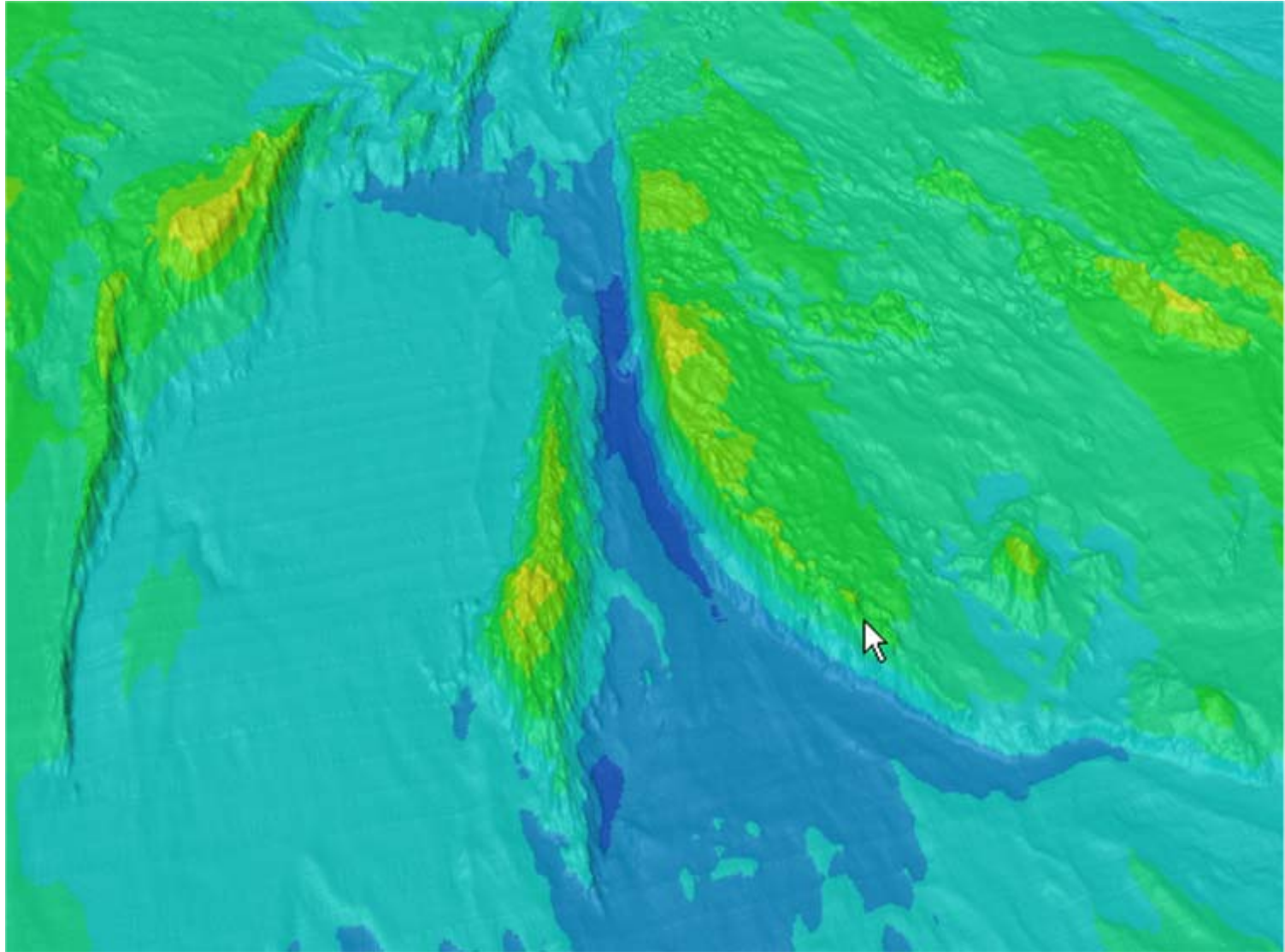
Polarstern Trough

Polarstern Trough



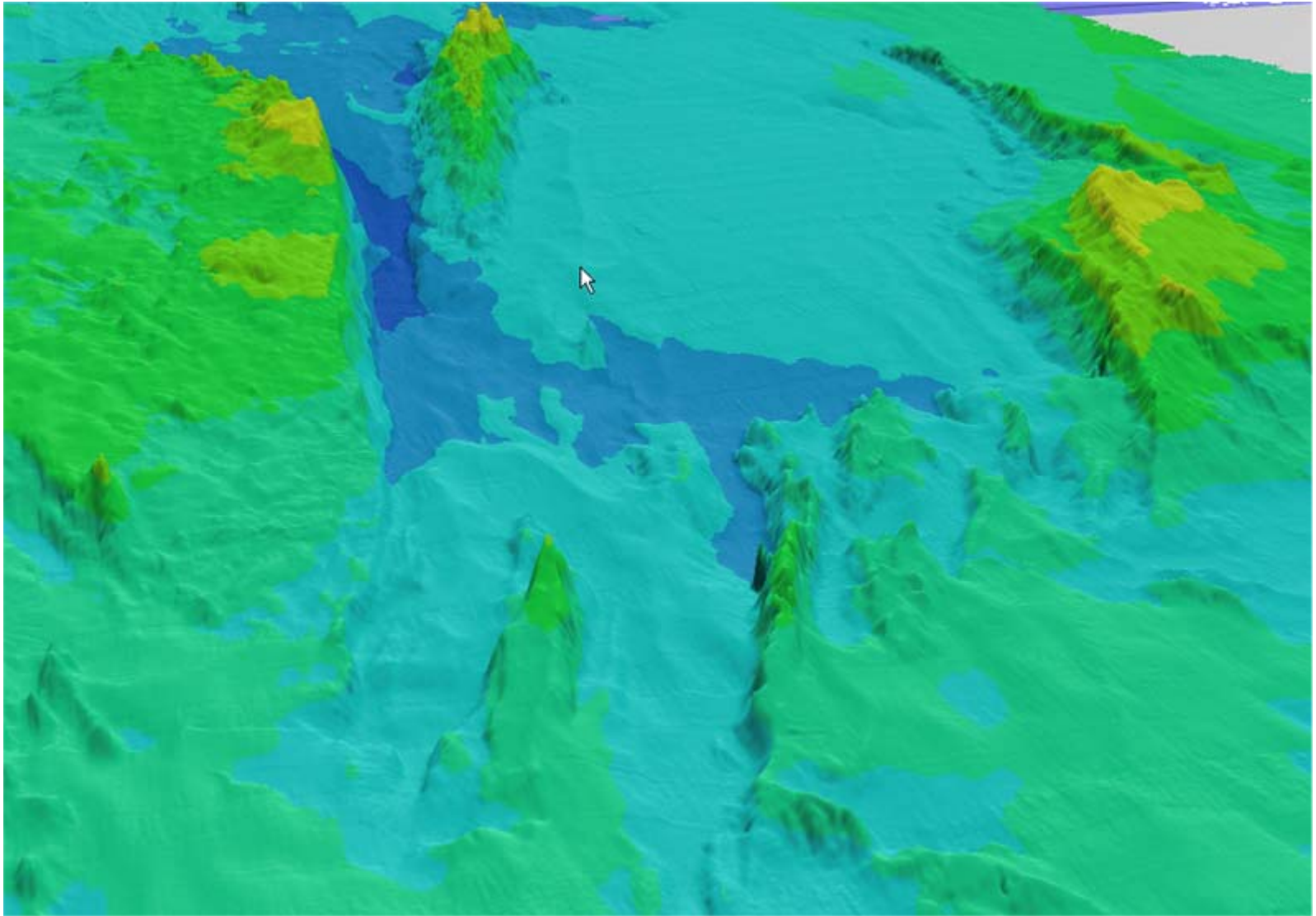
View from S

Polarstern Trough



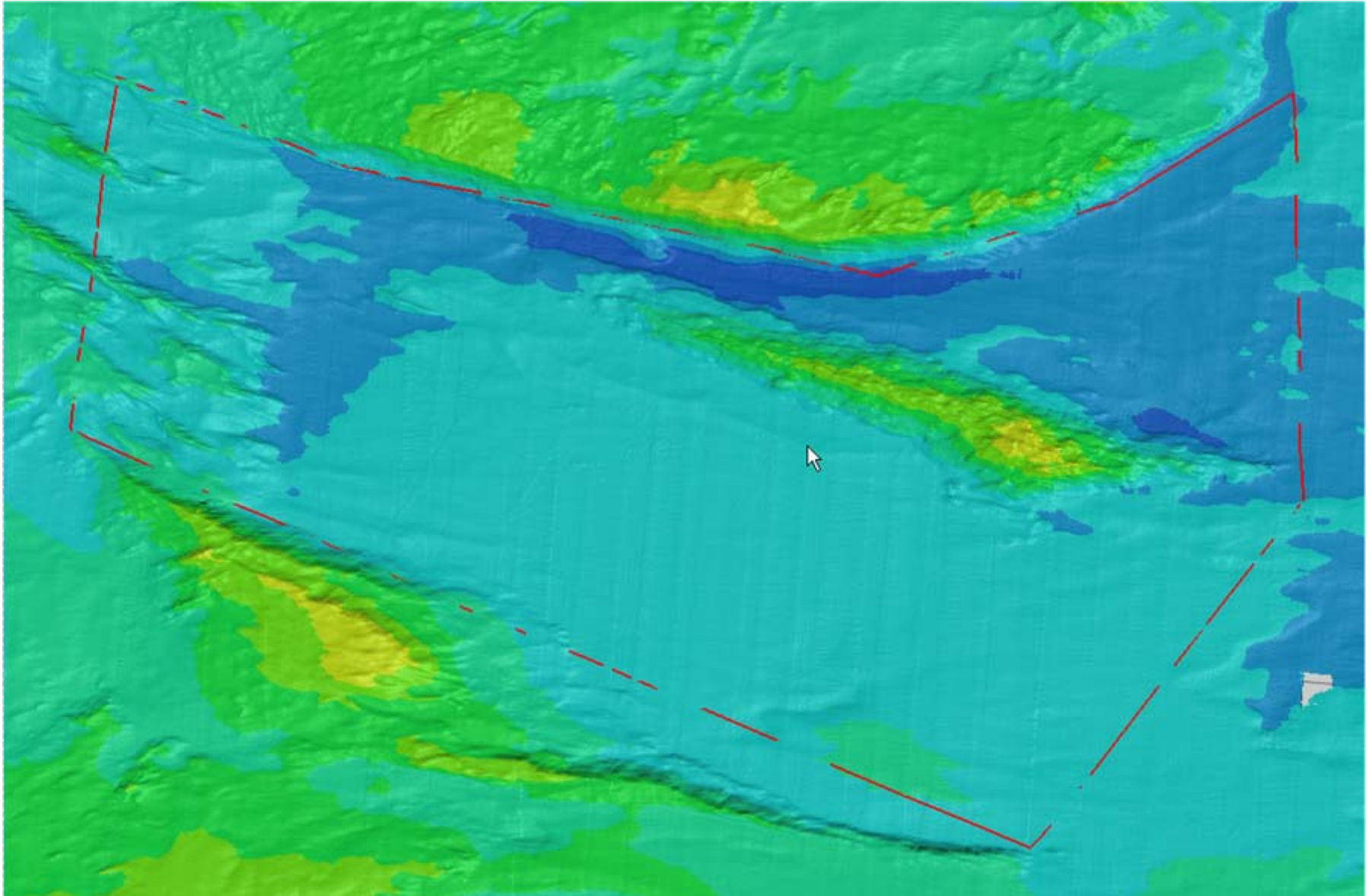
View from E

Polarstern Trough



View from W

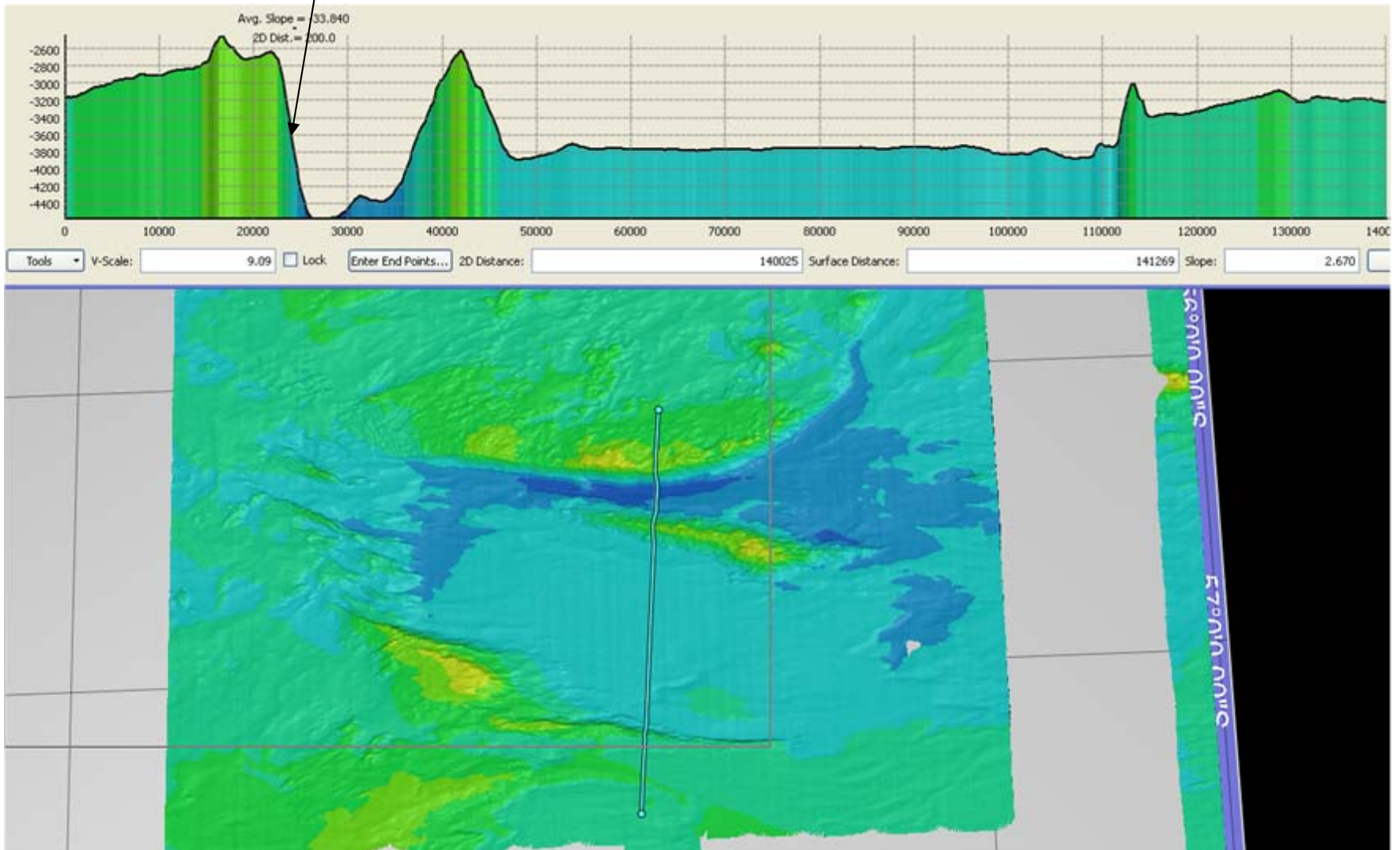
Polarstern Trough



Geogr. Boundaries of Polarstern Trough

Polarstern Trough

Max slope 38°



Polarstern Trough

