

UNDERSEA FEATURE NAME PROPOSAL

(Sea NOTE overleaf)

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

Name Proposed:	Gierloff-Emden Seamount	Ocean or Sea:	South East Atlantic
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Geometry that best defines the feature (Yes/No) :						
Point	Line	Polygon	Multiple points	Multiple lines*	Multiple polygons*	Combination of geometries*
No	No	Yes	No	No	No	No

* 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	(Summit) 1°18.1' S	(Summit) 011° 26.9' W
	-1.42818384° S	-11.58506796° W
	-1.40624554° S	-11.39293951° W
	-1.30181750° S	-11.32237012° W
	-1.18790533° S	-11.39834711° W
	-1.20988031° S	-11.56766934° W
	-1.35647418° S	-11.64263699° W

Feature Description:	Maximum Depth:	5000 m	Steepness :	> 20°
	Minimum Depth :	680 m	Shape :	Steep round shape
	Total Relief :	4320 m	Dimension/Size :	40 km diameter

Associated Features:	
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Chart/Map References:	Shown Named on Map/Chart:	
	Shown Unnamed on Map/Chart:	
	Within Area of Map/Chart:	South of Bode Verde F.Z. and 80 km WSW of Dampier Seamount

Reason for Choice of Name (if a person, state how associated with the feature to be named):	<p>Hans-Günter Gierloff-Emden (born <u>22. Mai 1923</u> in <u>Wilhelmshaven</u> – died 1. July 2011 in Hamburg) emeritus Professor for Geography and Geographic Remote Sensing at the Ludwig-Maximilians University in Munich. During the Second Worldwar he was Captain of the German Submarine U-88. He discovered his relatedness to the ocean environment during that time. Thus he studied later Oceanography and Geography at the University Hamburg. He spent several years in the United States and in South America doing marine researches. He is author of 19 monographs and educational books of highest quality. His contribution "The topography of the ocean floor" in the Landolt-Boernstein New Series, Volume 3, Oceanography: is an outstanding publication and of high scientific importance.</p>
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Discovery Facts:	Discovery Date:	October 17, 2000
	Discoverer (Individual, Ship):	German RV Polarstern ANT XVII/1

Supporting Survey Data, including	Date of Survey:	October 17, 2000
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Track Controls:	Survey Ship:	German RV Polarstern50 ANT XVIII/1
	Sounding Equipment:	Hydrosweep
	Type of Navigation:	GPS
	Estimated Horizontal Accuracy (nm):	0.05
	Survey Track Spacing:	Single multibeam profile
	Supporting material can be submitted as Annex in analog or digital form.	

Proposer(s):	Name(s):	Prof. Dr. Hans Werner Schenke
	Date:	5 July 2011
	E-mail:	Hans-Werner.Schenke@AWI.de
	Organization and Address:	Alfred Wegener Institute for Polar and Marine Research POB 120161 27515 Bremerhaven Germany
	Concurrer (name, e-mail, organization and address):	

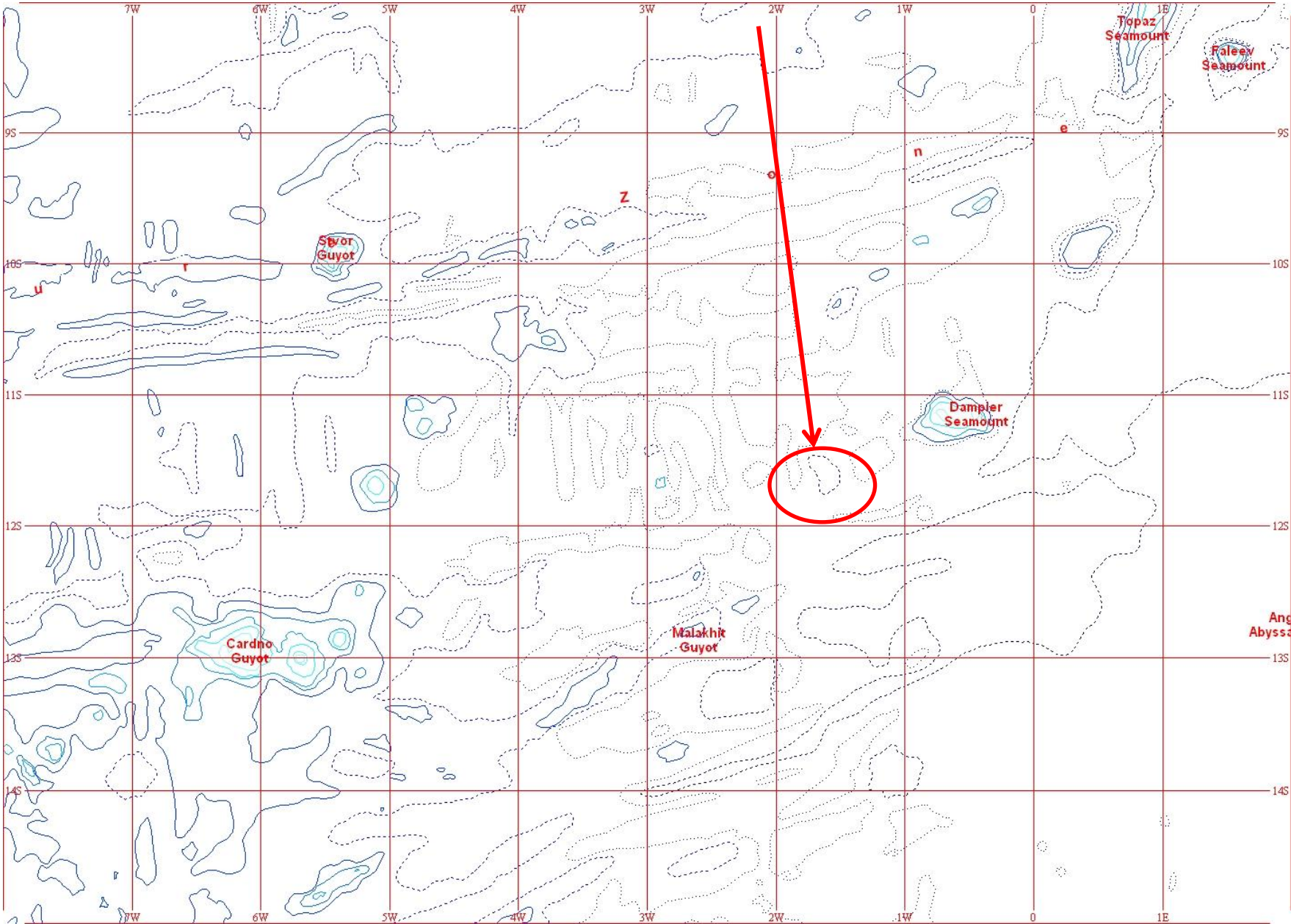
Remarks:	The complete survey of the seamount will be done during the next Transit of Polarstern from Bremerhaven to Cape Town in November 2011
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NOTE : This form should be forwarded, when completed :

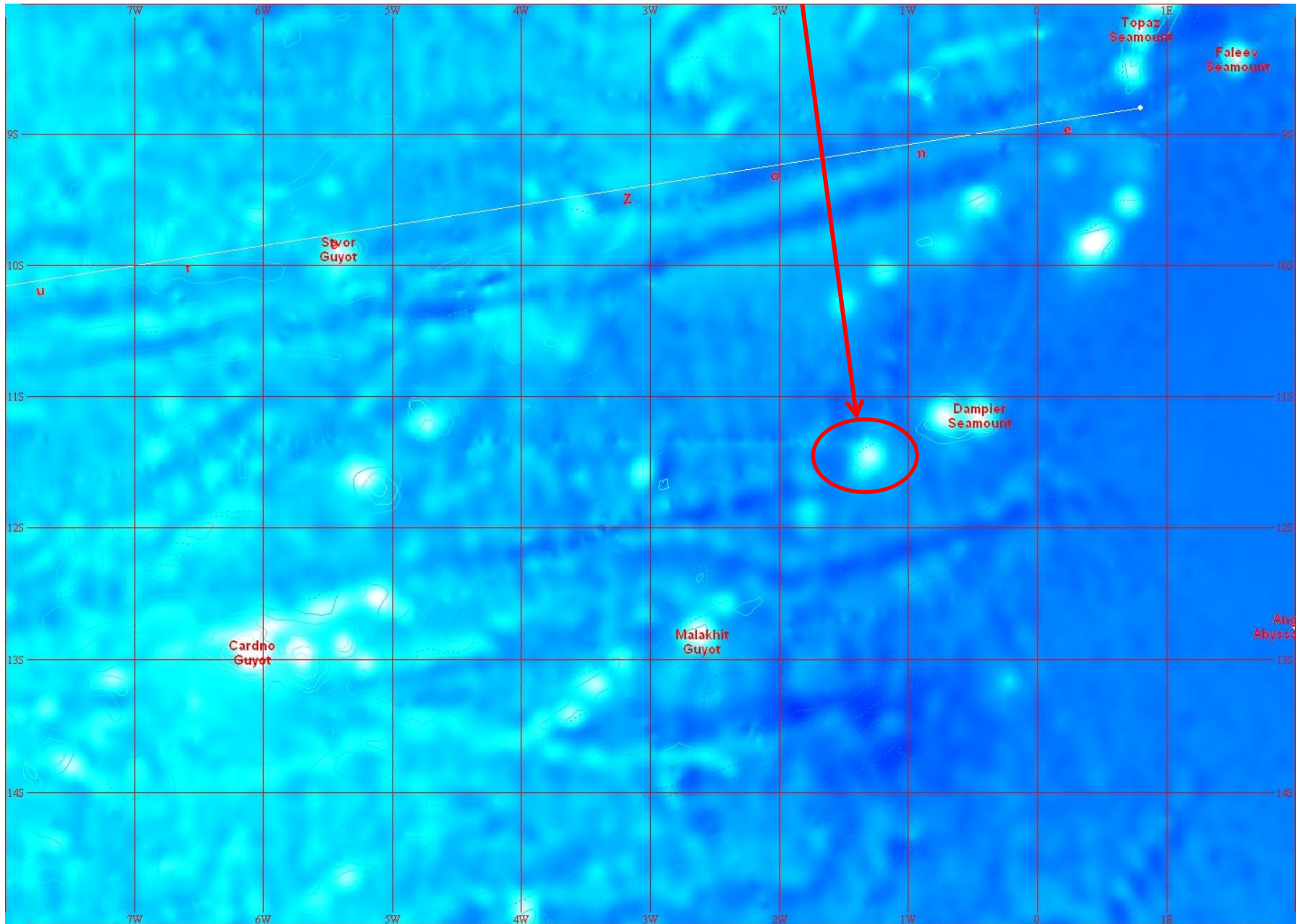
- a) If the undersea feature is located inside the external limit of the territorial sea :-
to your "National Authority for Approval of Undersea Feature Names" (see page 2-9) or, if this does not exist or is not known, either to the IHB or to the IOC (see addresses below);
- b) If at least 50 % of the 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 <u>France</u> Fax: +33 1 45 68 58 12 E-mail: info@unesco.org
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Proposal: Gierloff-Emden Seamount



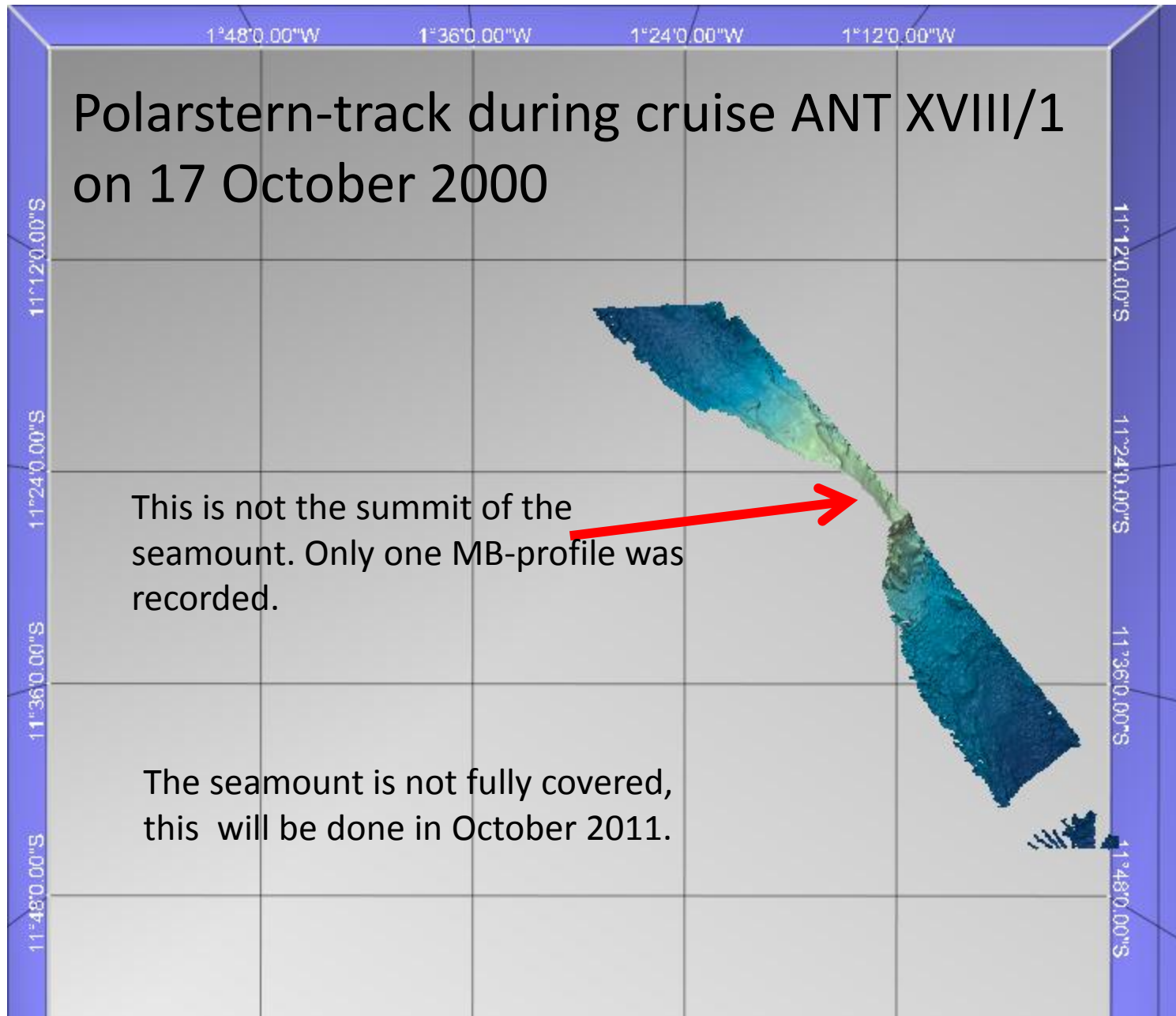
Proposal: Gierloff-Emden Seamount



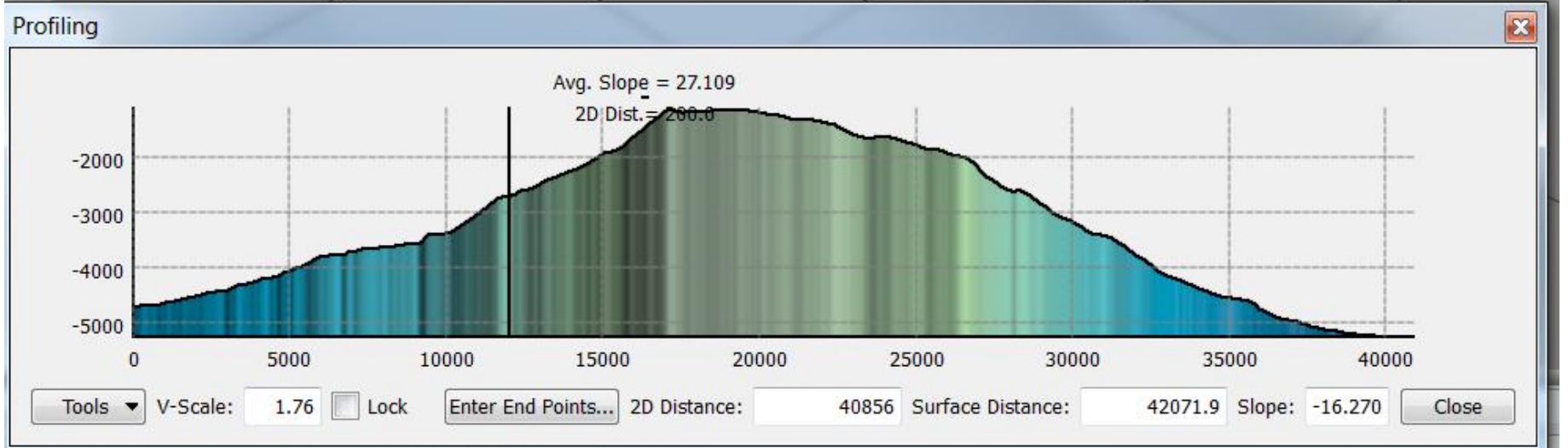
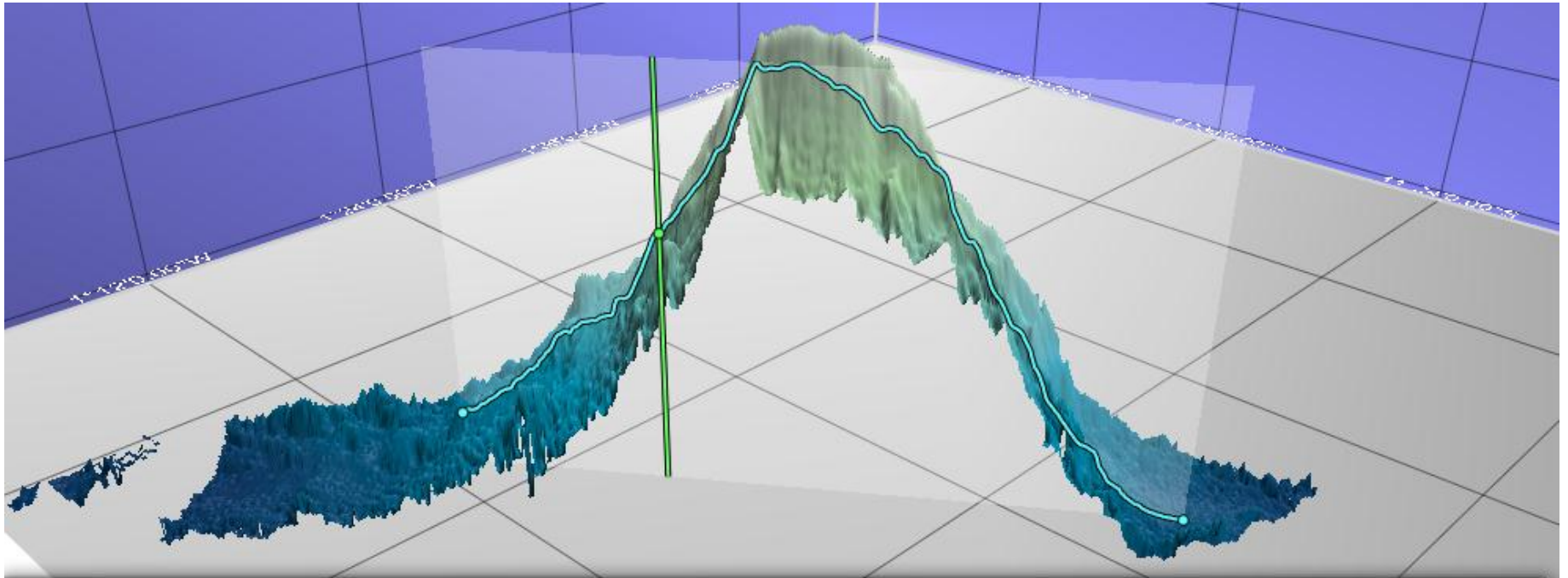
Polarstern-track during cruise ANT XVIII/1 on 17 October 2000

This is not the summit of the
seamount. Only one MB-profile was
recorded.

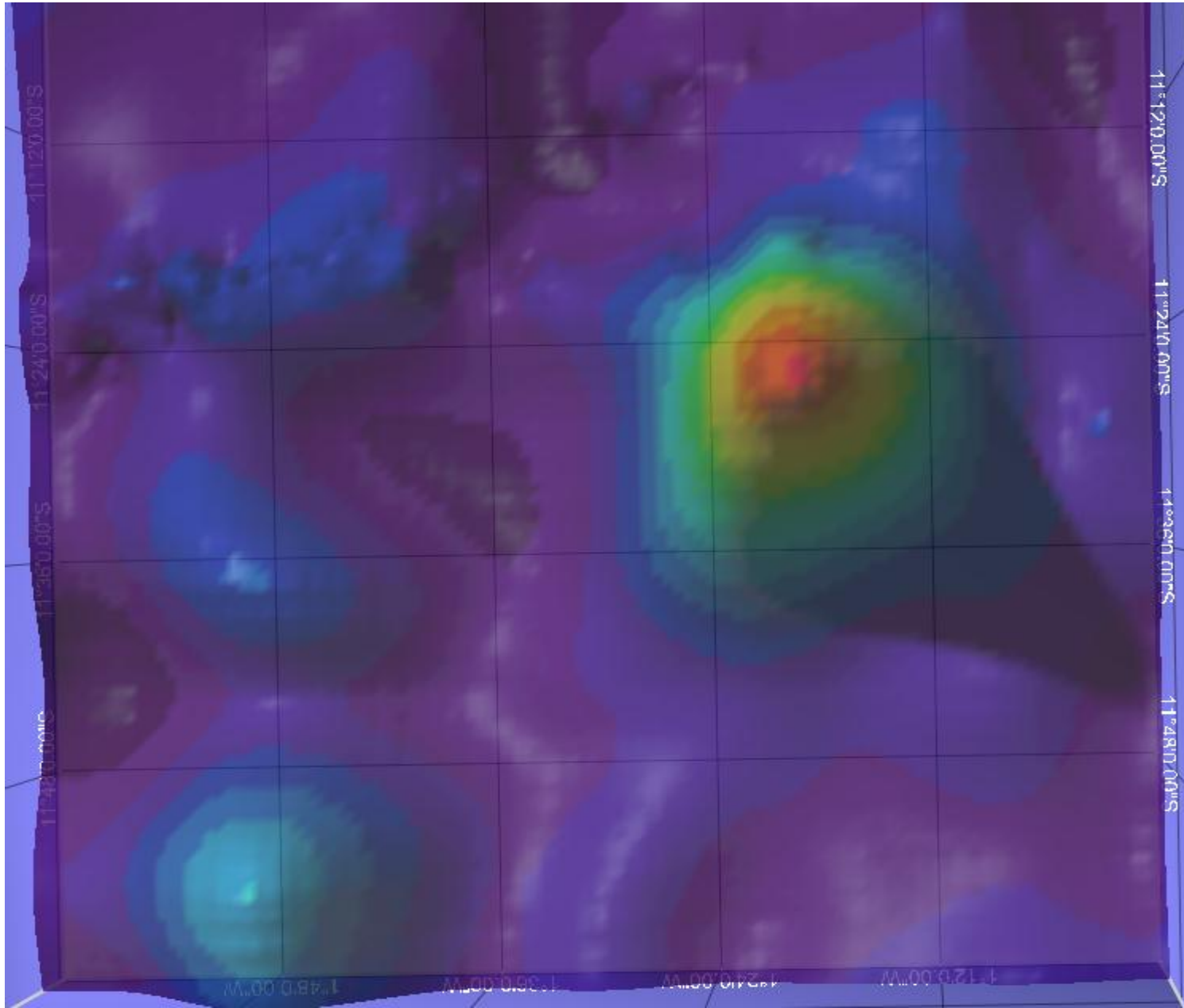
The seamount is not fully covered,
this will be done in October 2011.



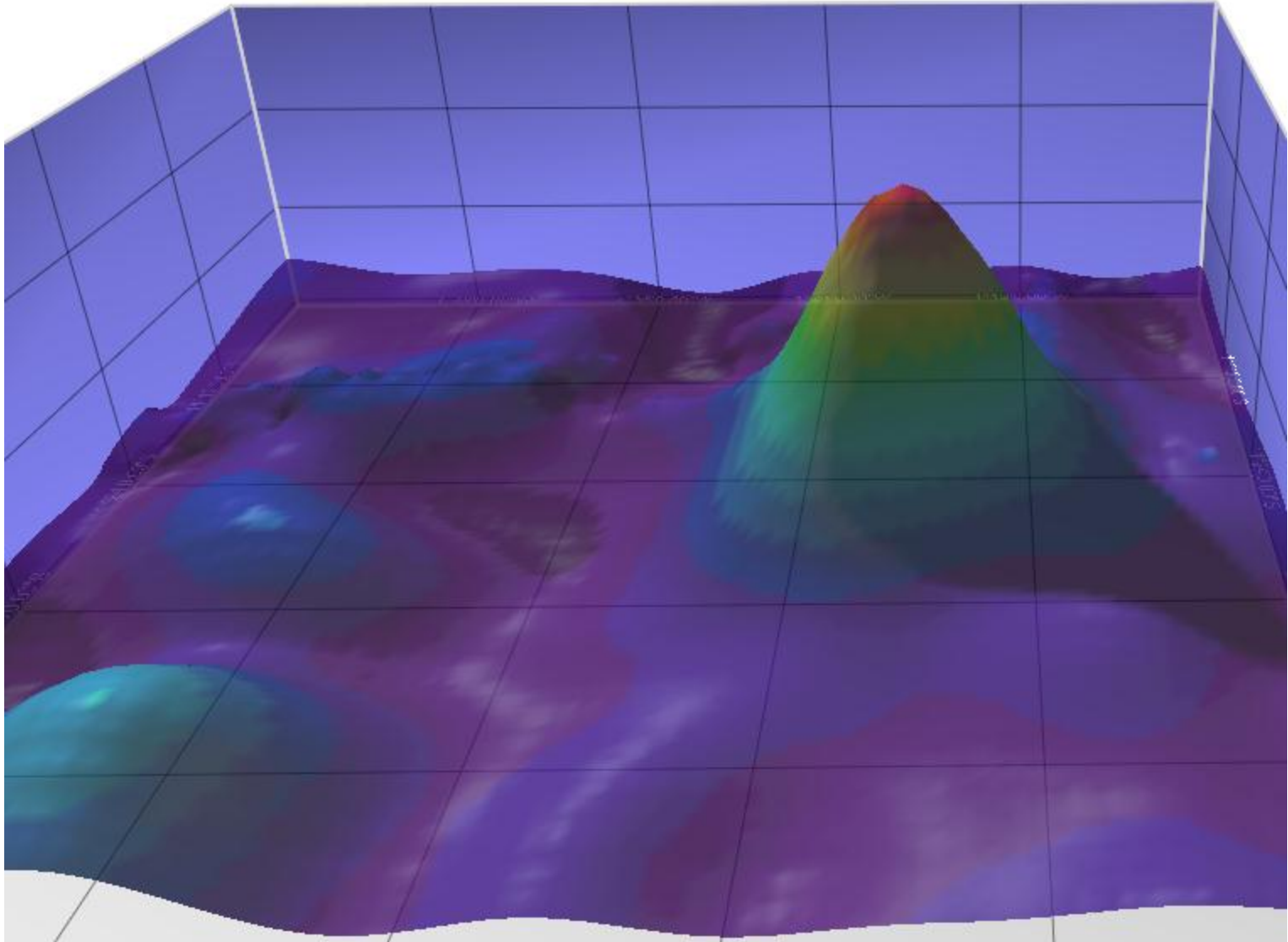
The Seamount has very steep slopes.



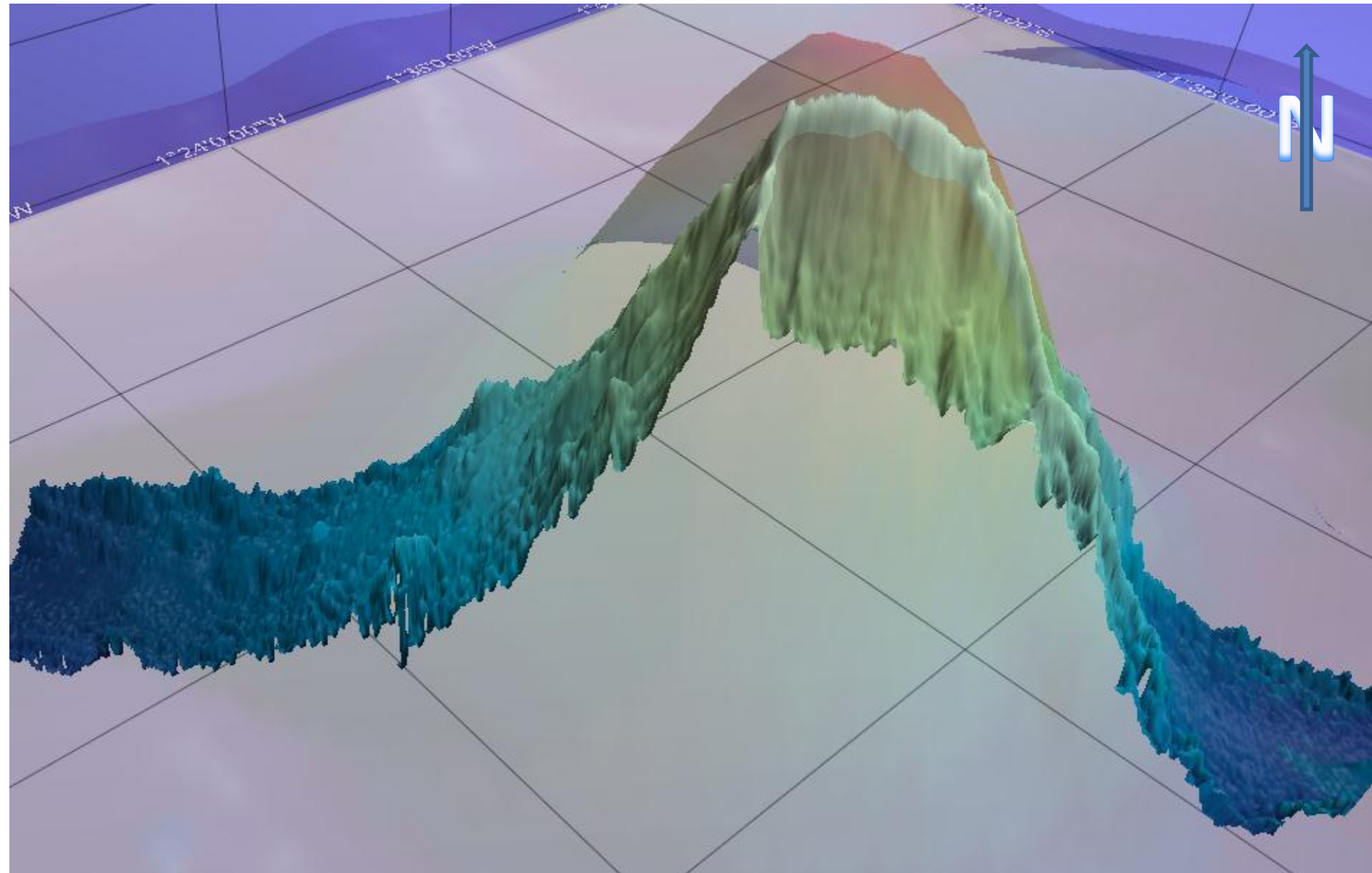
Gierloff-Emden Seamount



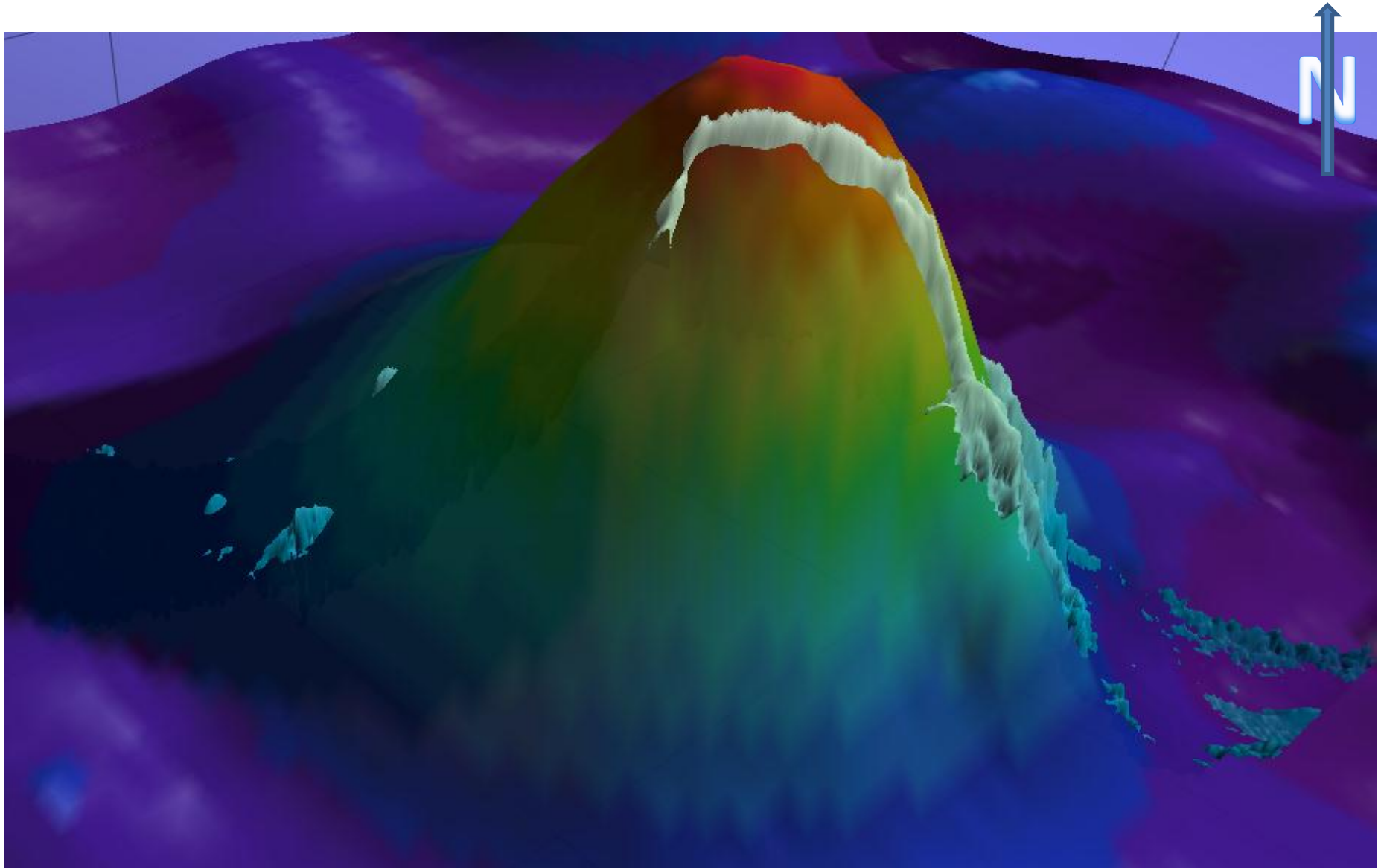
Gierloff-Emden Seamount



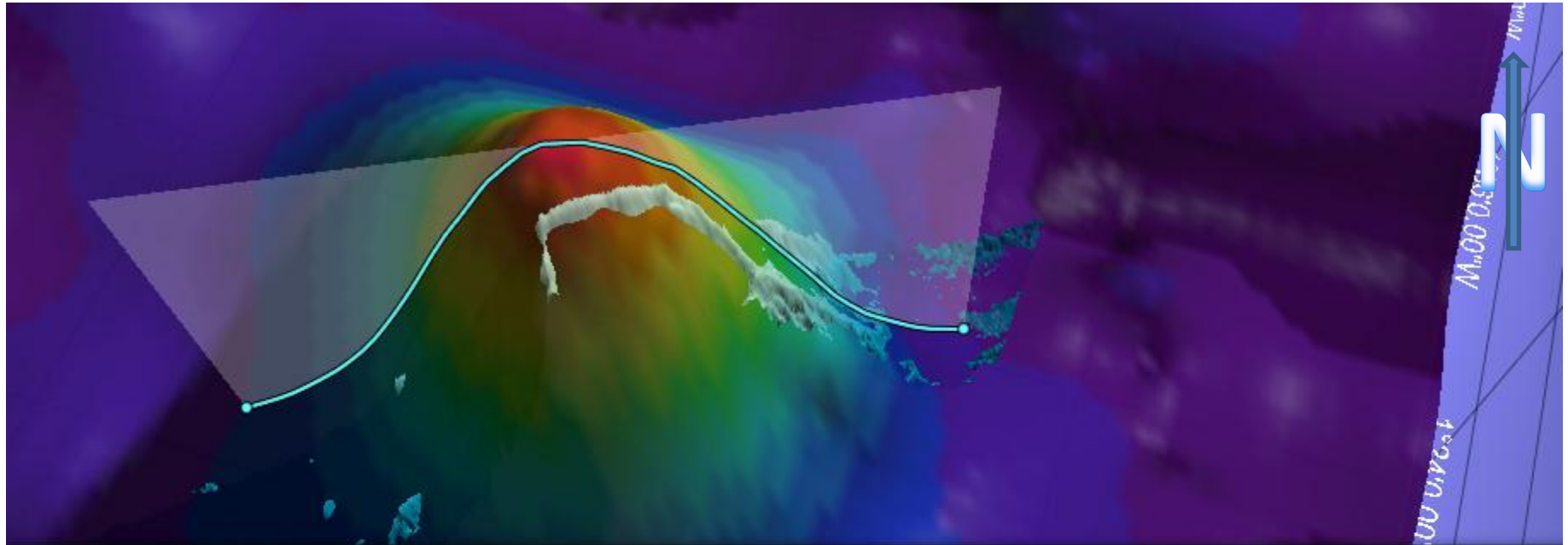
Gierloff-Emden Seamount



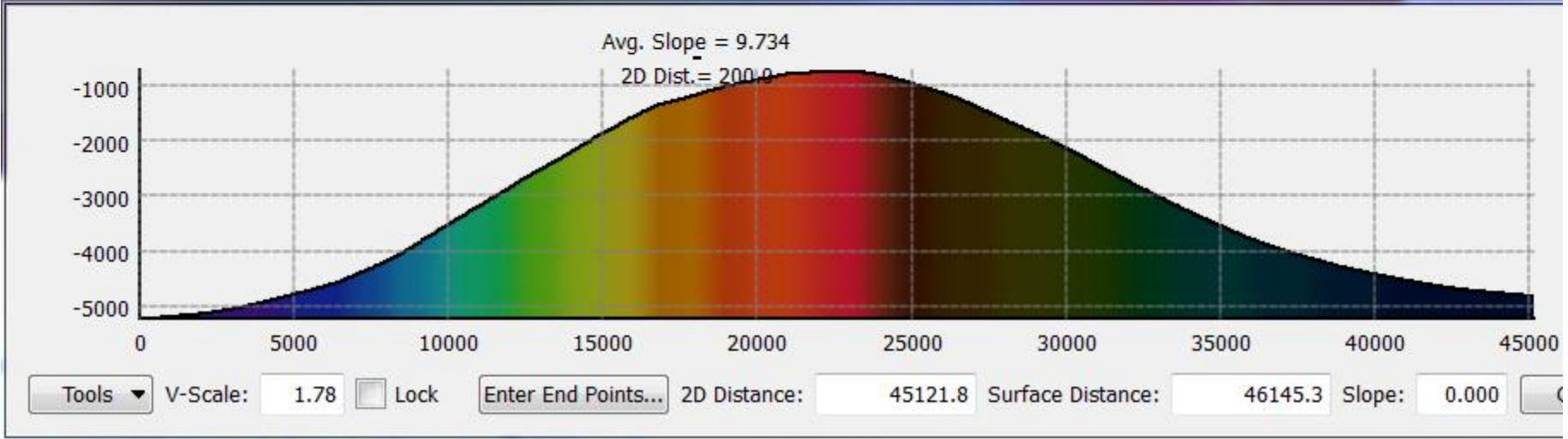
Gierloff-Emden Seamount



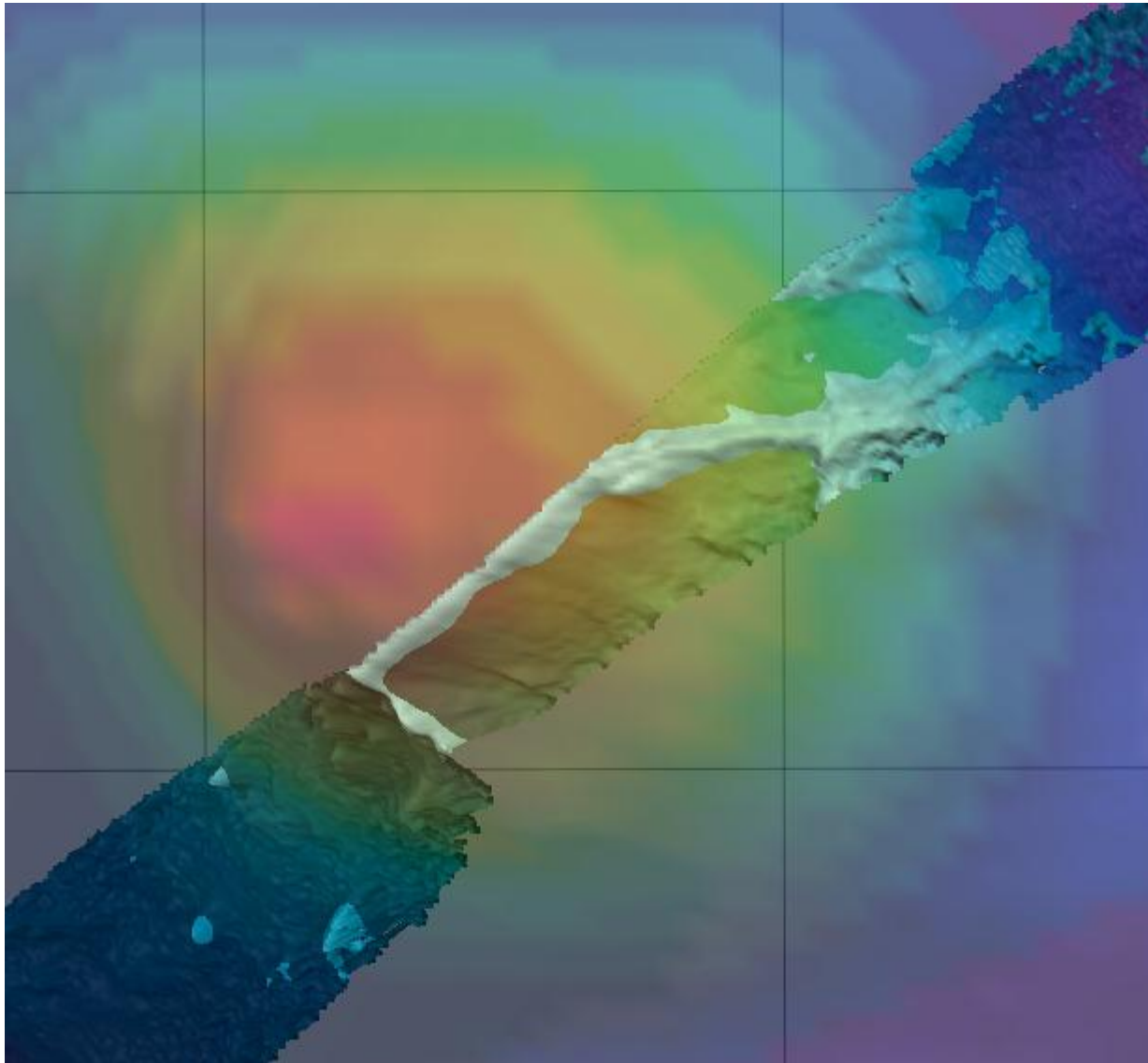
Gierloff-Emden Seamount



Profiling



Gierloff-Emden Seamount



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