

UNDERSEA FEATURE NAME PROPOSAL

(Sea NOTE overleaf)

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

Name Proposed:	Alpha Crucis Seamount	Ocean or Sea:	Atlantic Ocean
-----------------------	-----------------------	----------------------	----------------

Geometry that best defines the feature (Yes/No) :						
Point	Line	Polygon	Multiple points	Multiple lines*	Multiple polygons*	Combination of geometries*
Yes		Yes				

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

Coordinates:	Lat. (e.g. 63°32.6'N)	Long. (e.g. 046°21.3'W)
	(Central Point) 27° 49.9' S	(Central Point) 37° 57.4' W
	27° 40.6' S	37° 54.9' W
	27° 40.0' S	37° 58.6' W
	27° 42.5' S	38° 04.8' W
	27° 45.8' S	38° 07.6' W
	27° 53.8' S	38° 07.8' W
	27° 58.0' S	38° 05.0' W
	27° 59.5' S	37° 57.5' W
	27° 58.8' S	37° 51.4' W
	27° 54.5' S	37° 47.0' W
	27° 48.8' S	37° 46.0' W
	27° 43.3' S	37° 49.1' W
27° 40.6' S	37° 54.9' W	

Feature Description:	Maximum Depth:	5080 m	Steepness :	30° to 3°
	Minimum Depth :	1995 m	Shape :	Conical
	Total Relief :	3085 m	Dimension/Size :	42 km X 40 km (approximately)

Associated Features:	Cruzeiro do Sul Rift, Bigarella Seamount, Bigarella Hill, Vema Seachannel
-----------------------------	---

Chart/Map References:	Shown Named on Map/Chart:	
	Shown Unnamed on Map/Chart:	
	Within Area of Map/Chart:	Nautical Chart 1 and 10

Reason for Choice of Name (if a person, state how associated with the feature to be named):	Alpha Crucis Seamount is aligned with the Cruzeiro do Sul Rift, in the Northwest direction. Alpha Crucis is a blue subgiant star located in the Cruzeiro do Sul constellation (in English: South Cross), in the southern hemisphere. Alpha Crucis, also known as Estrela de Magalhães in Portuguese, is the main and southern most star of the Cruzeiro do Sul constellation and marks the bottom of the South Cross, when you are facing south.
---	--

Discovery Facts:	Discovery Date:	Unknown
	Discoverer (Individual, Ship):	Unknown

	Date of Survey:	2011, 2017
--	-----------------	------------

Supporting Survey Data, including Track Controls:	Survey Ship:	RV Marion Dufresne and NPqHo Vital de Oliveira (Brazilian Continental Shelf Project)
	Sounding Equipment:	THOMSON TSM 5265B/ Seafalcon 11 and EM122/ EM710
	Type of Navigation:	GPS
	Estimated Horizontal Accuracy (nm):	
	Survey Track Spacing:	15 km - 4 km – Full bottom covered
Supporting material can be submitted as Annex in analog or digital form.		

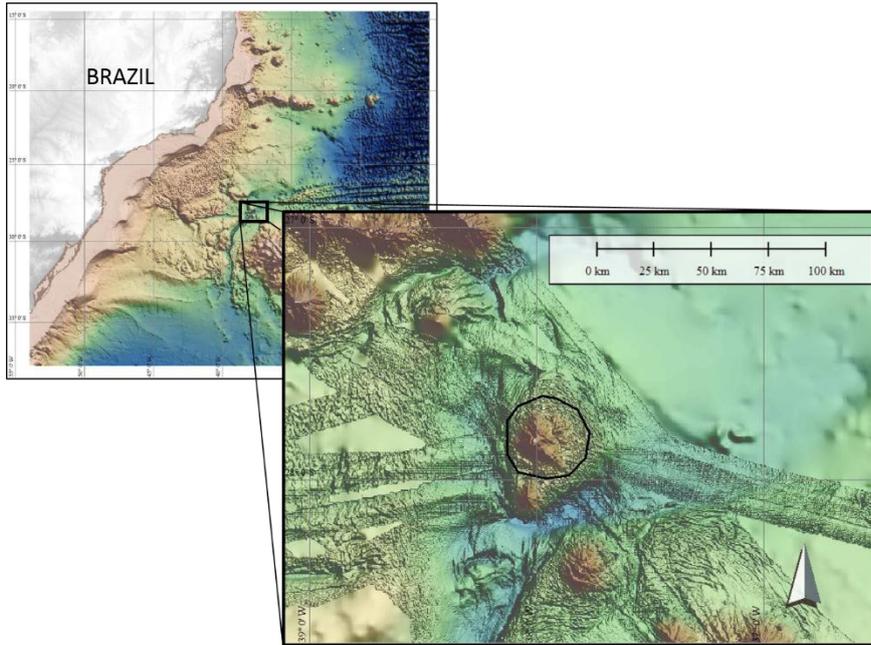


Fig. 1 – Alpha Crucis Seamount location.

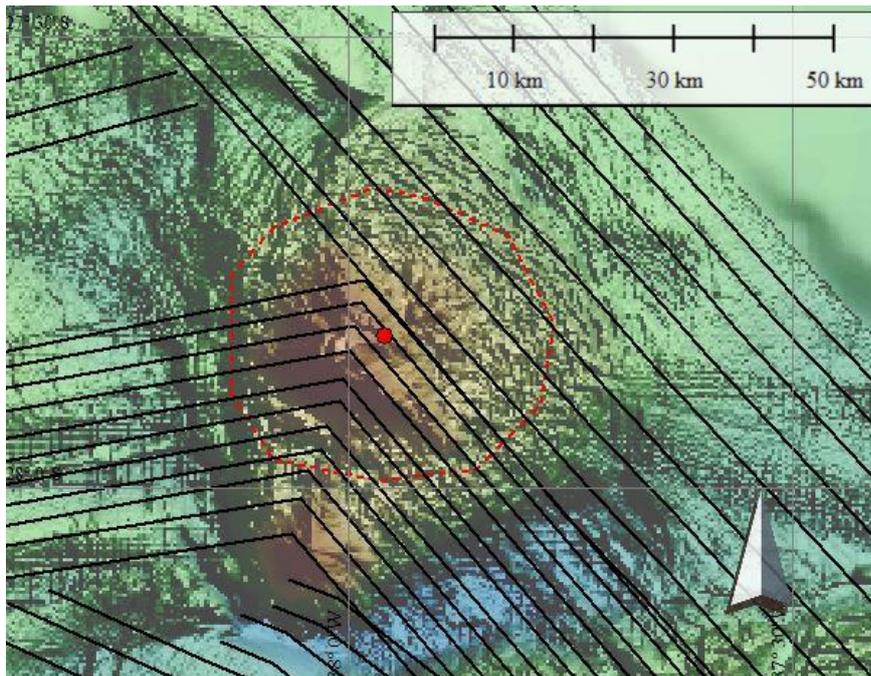


Fig. 2 – Track line. Black lines: multibeam data; Red dot: Alpha Crucis Seamount central point.

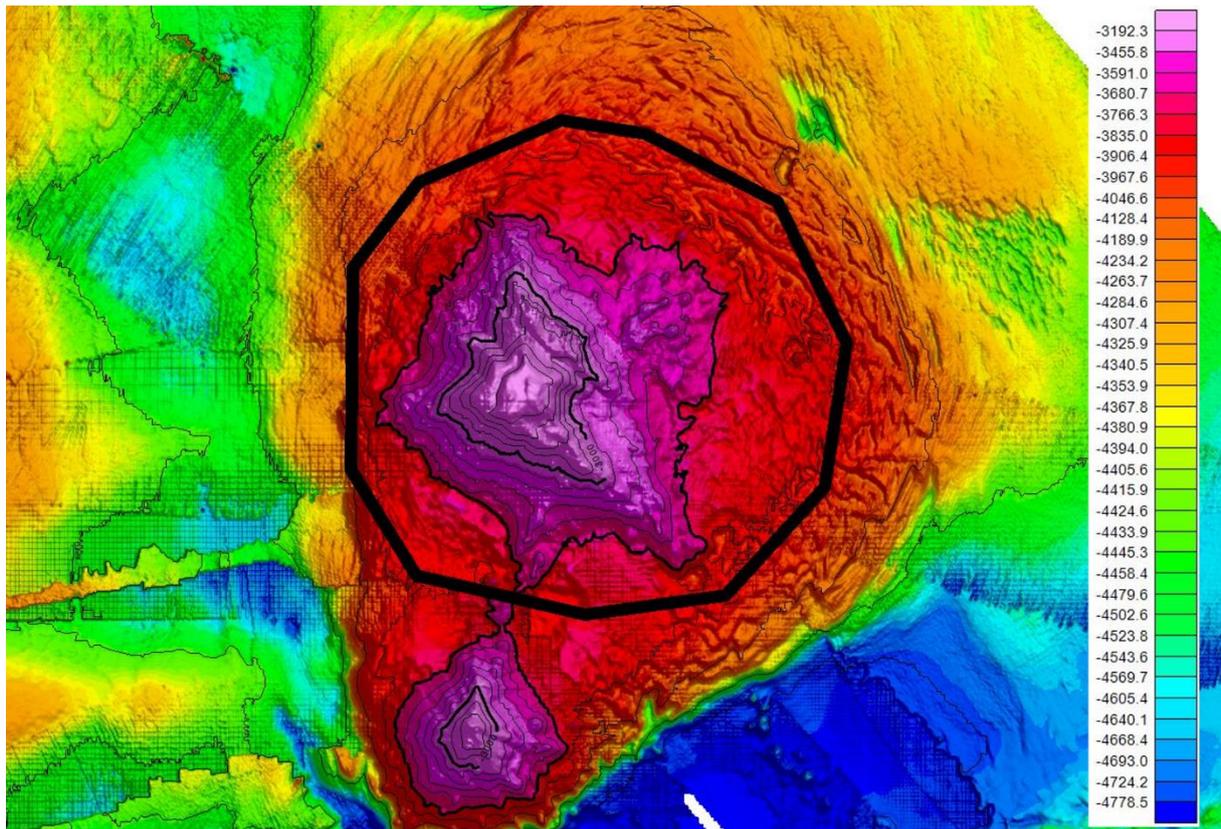


Fig. 3 – Bathymetric grid, contour Line (interval: 200 m) and the polygon.

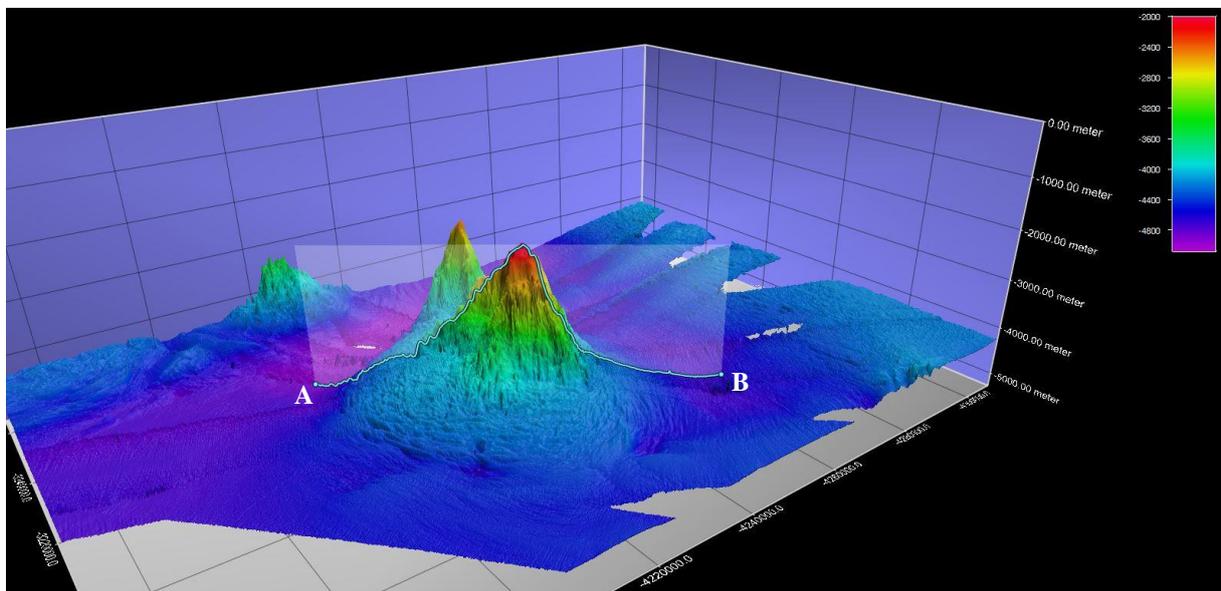


Fig. 4 – 3D - Digital Terrain Model, Bathymetric grid and profile (Application: Fledermaus 7.2.1a).

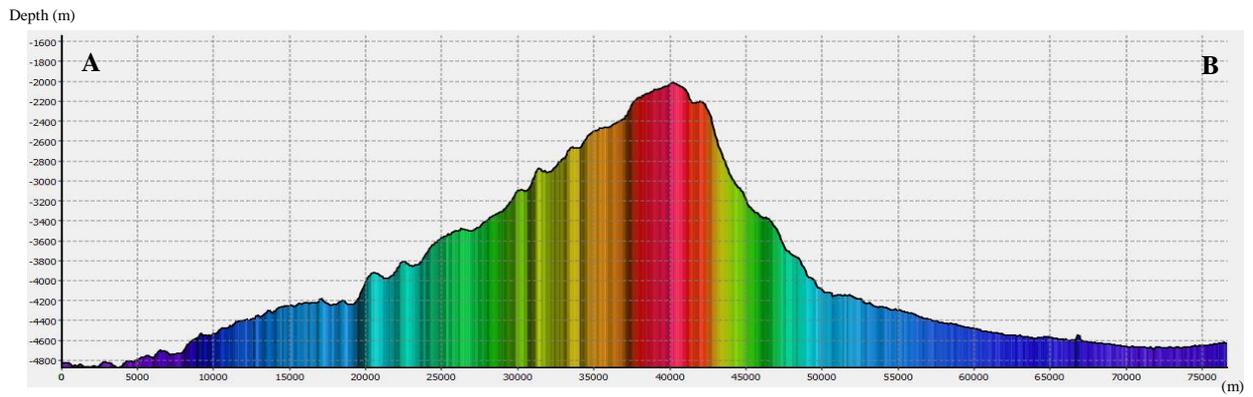


Fig. 5 – Bathymetric profile (Application: Fledermaus 7.2.1a).

Proposer(s):	Name(s):	Directorate of Hydrography and Navigation
	Date:	May 2019
	E-mail:	lorena.sampaio@marinha.mil.br
	Organization and Address:	Directorate of Hydrography and Navigation Barão de Jaceguay Street – Ponta da Armação – Niterói – Rio de Janeiro – Brazil - ZIP code: 24.048-900
	Concurrer (name, e-mail, organization and address):	