

UNDERSEA FEATURE NAME PROPOSAL
(SeaNOTE overleaf)

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

Name Proposed:	Niaoluo Knolls	Ocean or Sea:	Eastern Pacific Ocean
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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:	10°19.0'N (top)	152°01.1'W (top)
	10°20.5'N (top)	151°56.9'W (top)
	10°14.6'N (bottom)	151°59.1'W (bottom)
	10°15.3'N	152°00.1'W
	10°17.5'N	151°59.6'W
	10°17.4'N	152°00.8'W
	10°17.6'N	152°01.8'W
	10°19.2'N	152°04.8'W
	10°19.6'N	152°05.0'W
	10°20.2'N	152°04.6'W
	10°20.6'N	152°04.9'W
	10°20.7'N	152°05.8'W
	10°21.1'N	152°06.0'W
	10°21.6'N	152°06.1'W
	10°22.2'N	152°06.3'W
	10°22.8'N	152°06.0'W
	10°22.4'N	152°05.0'W
	10°21.5'N	152°04.5'W
	10°21.9'N	152°02.7'W
	10°22.2'N	152°00.8'W
	10°22.1'N	151°59.0'W
	10°21.4'N	151°56.9'W
	10°21.4'N	151°56.4'W
	10°20.1'N	151°55.5'W
	10°19.4'N	151°54.2'W
	10°19.5'N	151°53.5'W
	10°18.6'N	151°53.6'W
	10°17.8'N	151°55.3'W
	10°17.2'N	151°56.2'W
	10°16.4'N	151°55.8'W
10°15.5'N	151°56.0'W	
10°22.8'N	151°57.2'W	
10°21.9'N	151°57.5'W	
10°14.6'N	151°59.1'W	

Feature Description:	Maximum Depth:	5340 m	Steepness :	
	Minimum Depth :	4400 m	Shape :	
	Total Relief :	940 m	Dimension/Size :	24km×15km

Associated Features:	The planform of Niaoluo Knolls is irregular. Its maximum length is 24km and its maximum width is 15km. The Minimum depth is 4400m and the foothills is 5340m deep. Its elevation difference is 940m. Its hillsides are steep.
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Chart/Map References:	Shown Named on Map/Chart:	
	Shown Unnamed on Map/Chart:	GEBCO 5.07
	Within Area of Map/Chart:	

Reason for Choice of Name (if a person, state how associated with the feature to be named):	Niaoluo(cypress vine) comes from poem Kui Bian in SHI JING • XIAO YA. In the line ‘Niao (grossulariaceae) and Nv Luo (Uanea Longissima) cling to pine and cypress’, Niao and Luo are two kinds of commensal plants. They symbolize the solidarity among close siblings.
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Discovery Facts:	Discovery Date:	Oct. 1995
	Discoverer (Individual, Ship):	R/V Dayang Yihao

Supporting Survey Data, including Track Controls:	Date of Survey:	Oct. 1995
	Survey Ship:	R/V Dayang Yihao
	Sounding Equipment:	Seabeam2112.360
	Type of Navigation:	Sercel NR51 DGPS
	Estimated Horizontal Accuracy (nm):	≤0.08nm
	Survey Track Spacing:	5nm
	Supporting material can be submitted as Annex in analog or digital form.	

Proposer(s):	Name(s):	China Ocean Mineral Resources R&D Association(COMRA)
	Date:	Aug.2015
	E-mail:	comra@comra.org
	Organization and Address:	State Oceanic Administration, China No.1 Fuxingmenwai Ave. Beijing
	Concurrer (name, e-mail, organization and address):	

Remarks:	The proposal has been reviewed and approved by Sub-Committee on Undersea Feature Names of China Committee on Geographical Names (CCUFN) No.1 Fuxingmenwai Ave. Beijing 100860 heyunxu@sina.com
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Attachment

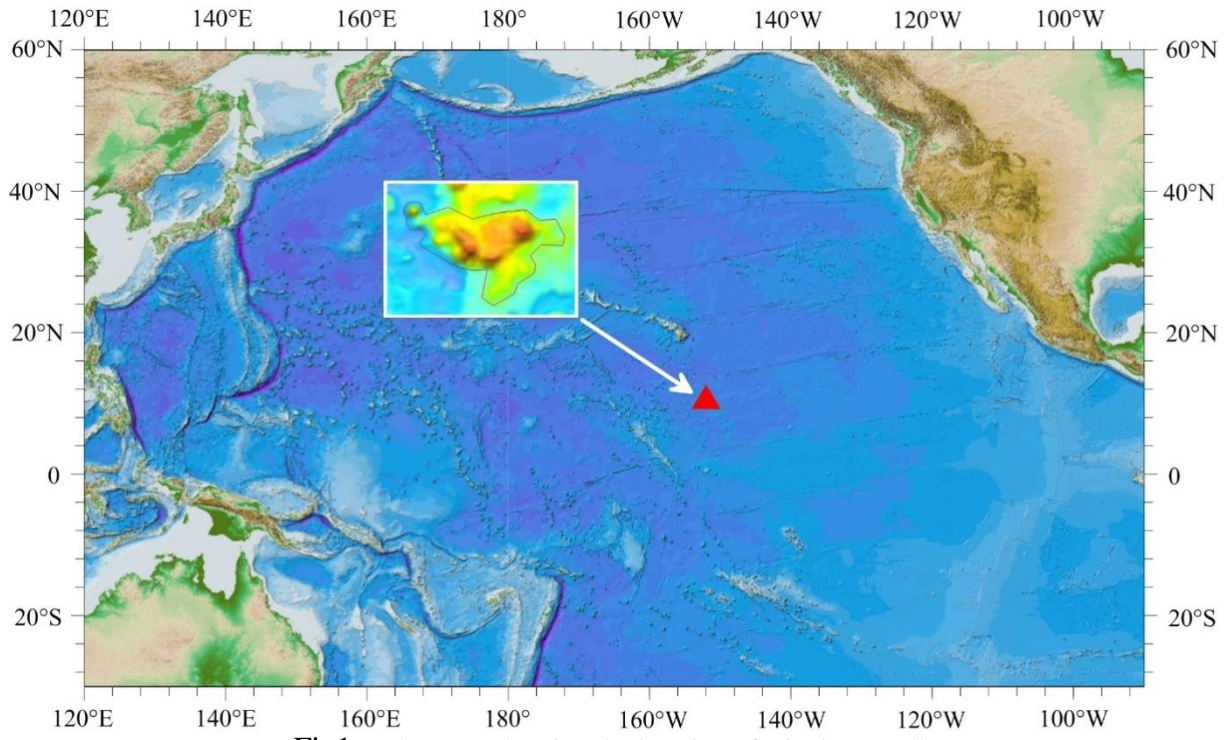


Fig1. Index map showing the location of Niaoluo Knolls

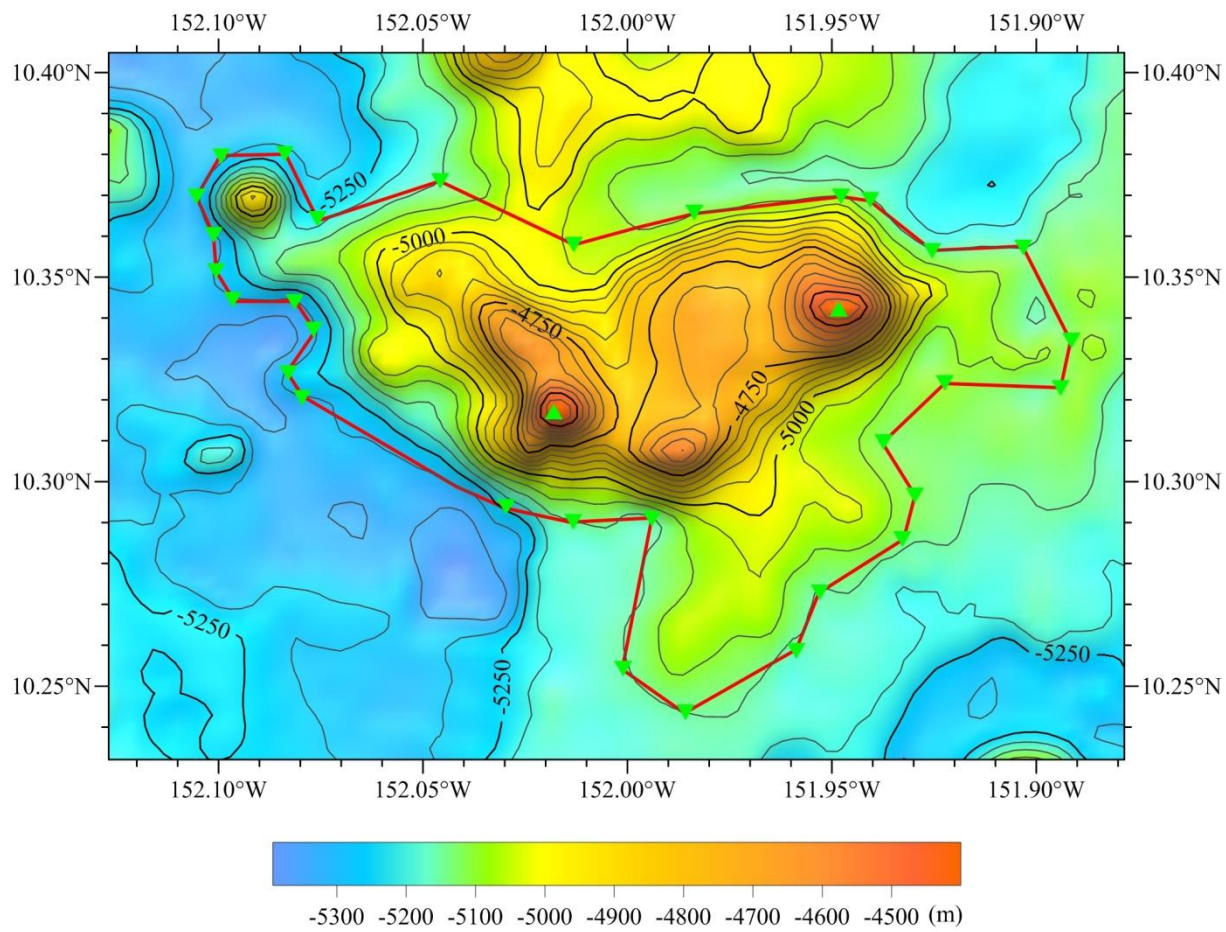


Fig2. Bathymetric map of Niaoluo Knolls

(Contours are in 50 m)

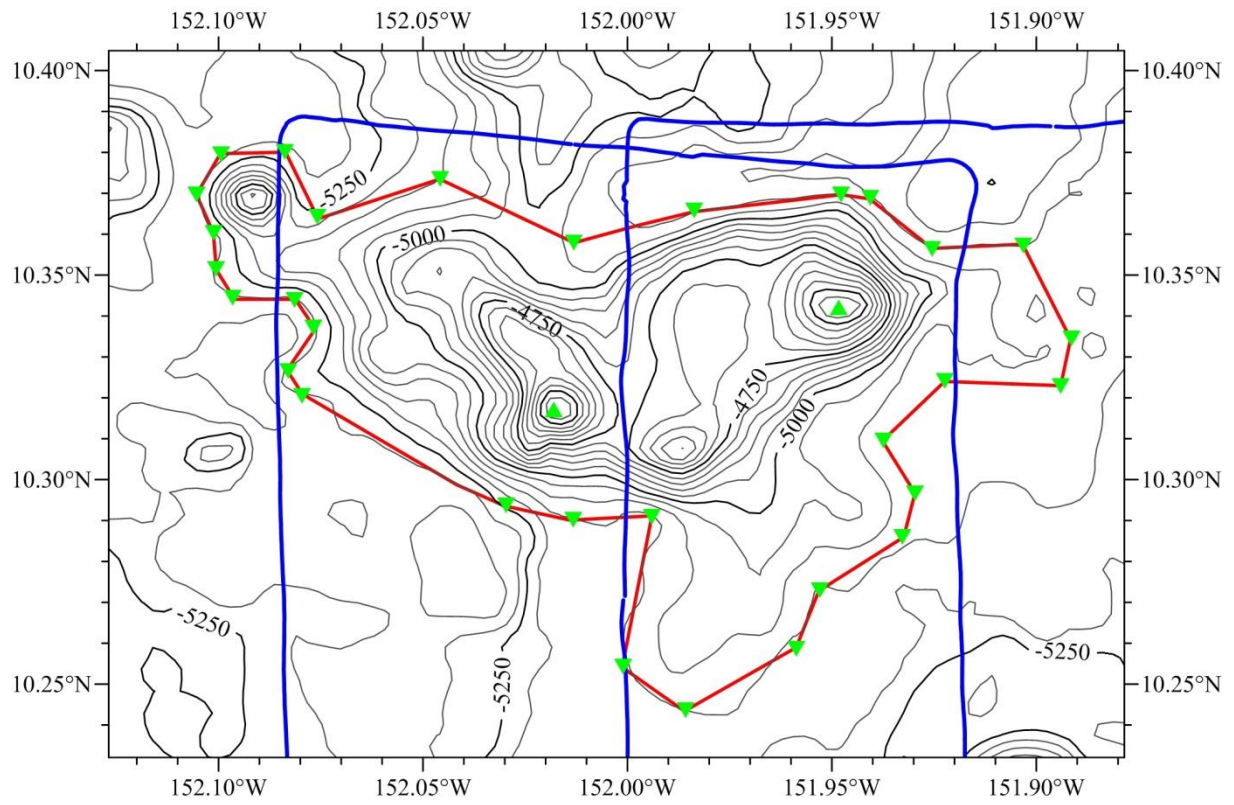


Fig.3 Bathymetric map of Nialuo Knolls, showing track lines

(Contours are in 50 m, blue lines are survey lines)

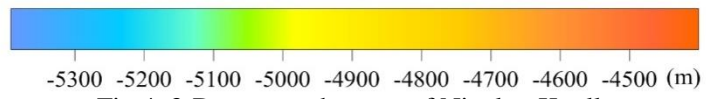
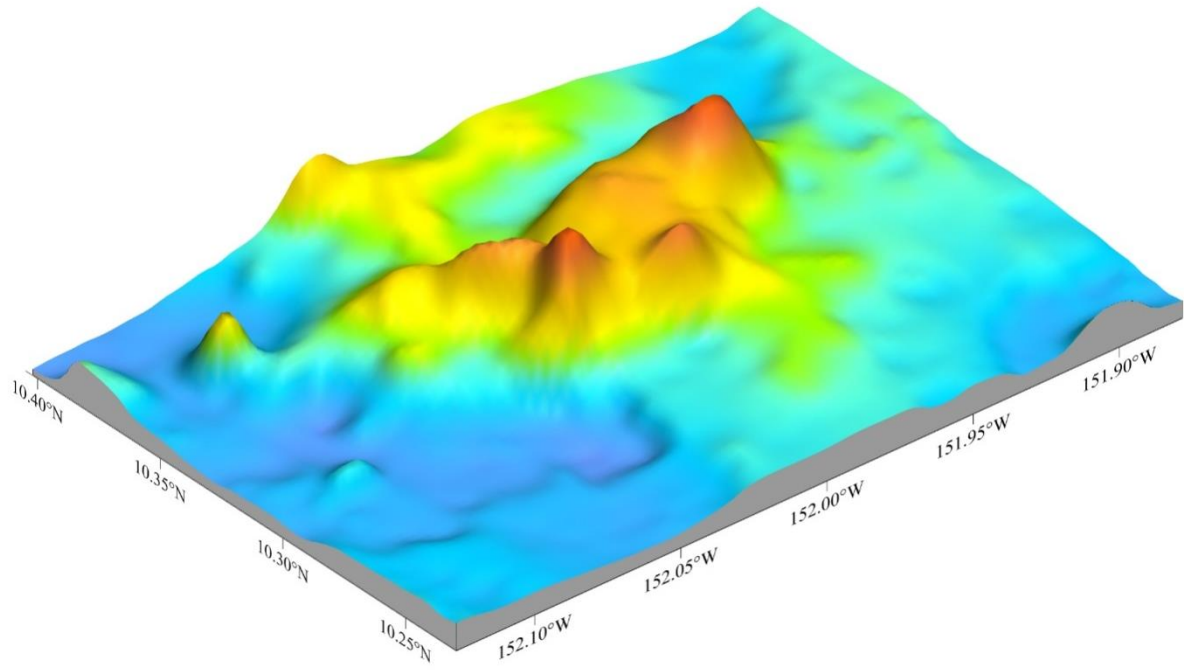


Fig 4. 3-D topography map of Niaoluo Knolls

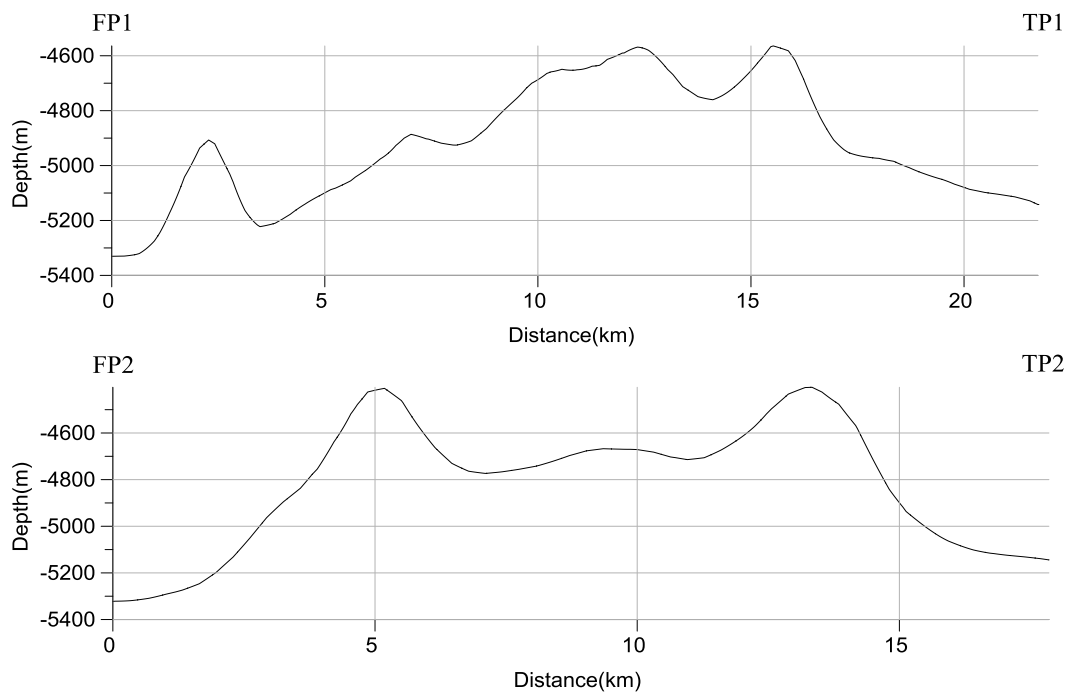
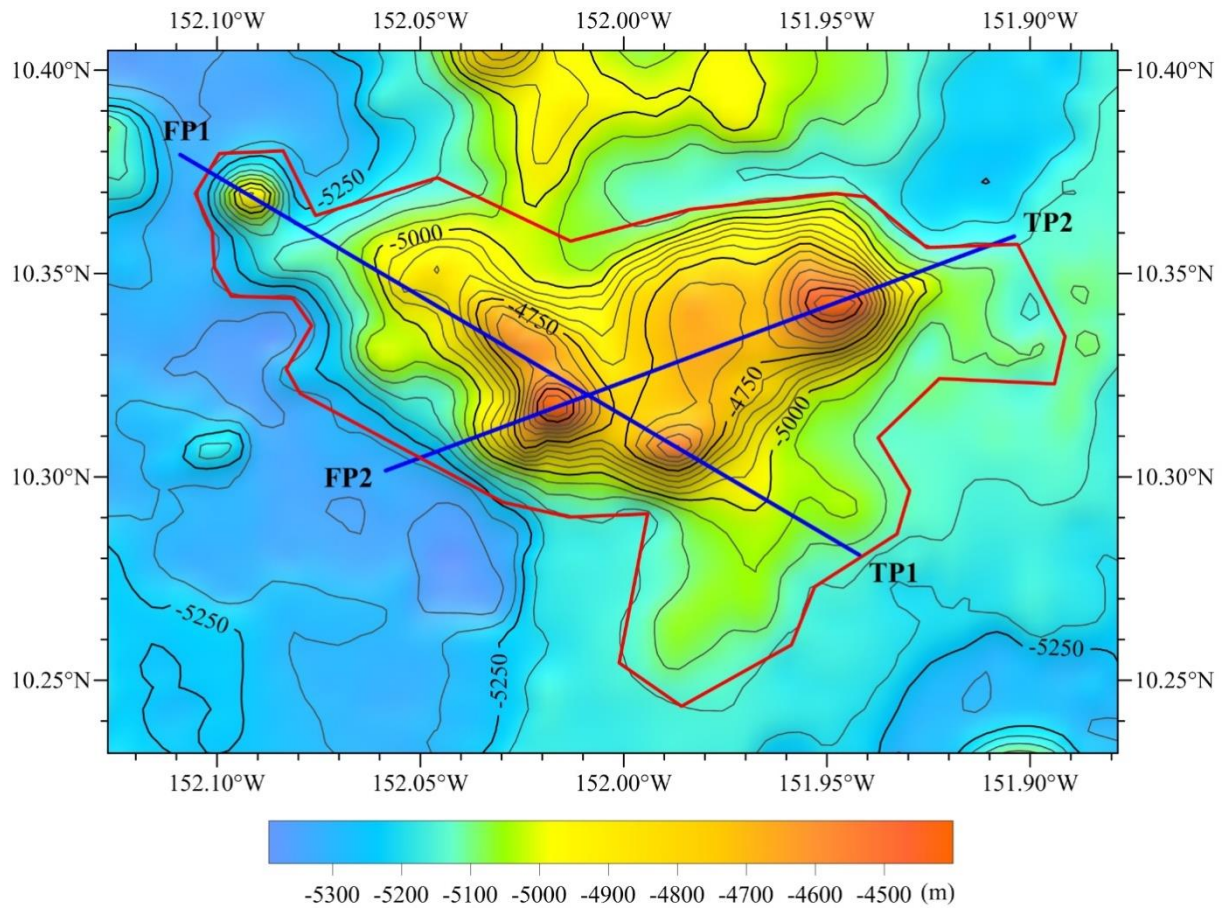


Fig.5 Bathymetric map and profile of Nialuo Knolls