

UNDERSEA FEATURE NAME PROPOSAL
(See IHO-IOC Publication B-6 and NOTE overleaf)

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

Name Proposed:	Leyuan Guyot	Ocean or Sea:	Central 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:	20°16.3'N (Top)	172°08.6'E (Top)
	20°15.2'N (Bottom)	172°05.6'E (Bottom)
	20°13.4'N	172°06.1'E
	20°12.7'N	172°08.5'E
	20°13.3'N	172°10.9'E
	20°15.0'N	172°11.6'E
	20°15.8'N	172°12.7'E
	20°17.3'N	172°12.2'E
	20°19.1'N	172°11.1'E
	20°21.0'N	172°10.5'E
	20°22.9'N	172°09.8'E
	20°23.3'N	172°08.0'E
	20°22.7'N	172°05.8'E
	20°22.0'N	172°04.2'E
	20°20.3'N	172°04.8'E
	20°18.2'N	172°04.6'E
20°15.2'N	172°05.6'E	

Feature Description:	Maximum Depth:	3200 m	Steepness :	
	Minimum Depth :	1508 m	Shape :	
	Total Relief :	1692 m	Dimension/Size :	19 km * 11 km

Associated Features:	Leyuan Guyot has an irregular overlook plane shape and develops three ridges extending towards NW, NE, and E respectively. The length and width are 19 km and 11 km respectively. The top platform depth is about 1700 m and the minimum depth is 1508m. The piedmont depth is 3200 m, which makes the total relief being 1692 m. The top platform is flat while the slopes are steep.
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Chart/Map References:	Shown Named on Map/Chart:	
	Shown Unnamed on Map/Chart:	GEBCO 5.06
	Within Area of Map/Chart:	

Reason for Choice of Name (if a person, state how associated with the feature to be named):	Leyuan comes from a poem named Heming in Shijing·Xiaoya. Shijing is a collection of ancient Chinese Poems from 11 th century B.C. to 6 th century B.C. Heming is a scenic and lyric poetry. One poem depicts a landscape painting by a combination of green mountain, deep river, flying crane, grey
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	trees and so on. This guyot is named "Leyuan", means the picturesque scenery, beautiful gardens.
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Discovery Facts:	Discovery Date:	Aug. 2001
	Discoverer (Individual, Ship):	Chinese R/V Dayang Yihao

Supporting Survey Data, including Track Controls:	Date of Survey:	Aug. 2001
	Survey Ship:	Chinese R/V Dayang Yihao
	Sounding Equipment:	Multi-beam Echo Sounding System (Seabeam2112.360)
	Type of Navigation:	Oministar DGPS
	Estimated Horizontal Accuracy (nm):	0.0053 sea mile
	Survey Track Spacing:	5 nm
	Supporting material can be submitted as Annex in analog or digital form: see Annex	

Proposer(s):	Name(s):	China Ocean Mineral Resources R&D Association (COMRA)
	Date:	July 1, 2017
	E-mail:	jjin@comra.org
	Organization and Address:	Fuxingmenwai Street No.1, Beijing, China China Ocean Mineral Resources R&D Association
	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). And the proposal has also been published in "Chinese Gazetteer of Undersea Features on the International Seabed(2016)". No.1, Fuxingmenwai Street, Xicheng District, Beijing, China, 100860 heyunxu@sina.com
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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 Publication B-6) or, if this does not exist or is not known, either to the IHO 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 IHO or to the IOC, at the following addresses :

International Hydrographic Organization (IHO) 4, Quai Antoine 1er B.P. 445 MC 98011 MONACO CEDEX Principality of MONACO Fax: +377 93 10 81 40 E-mail: info@iho.int Web: www.iho.int	Intergovernmental Oceanographic Commission (IOC) UNESCO Place de Fontenoy 75700 PARIS France Fax: +33 1 45 68 58 12 E-mail: info@unesco.org Web: http://ioc-unesco.org/
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ANNEX

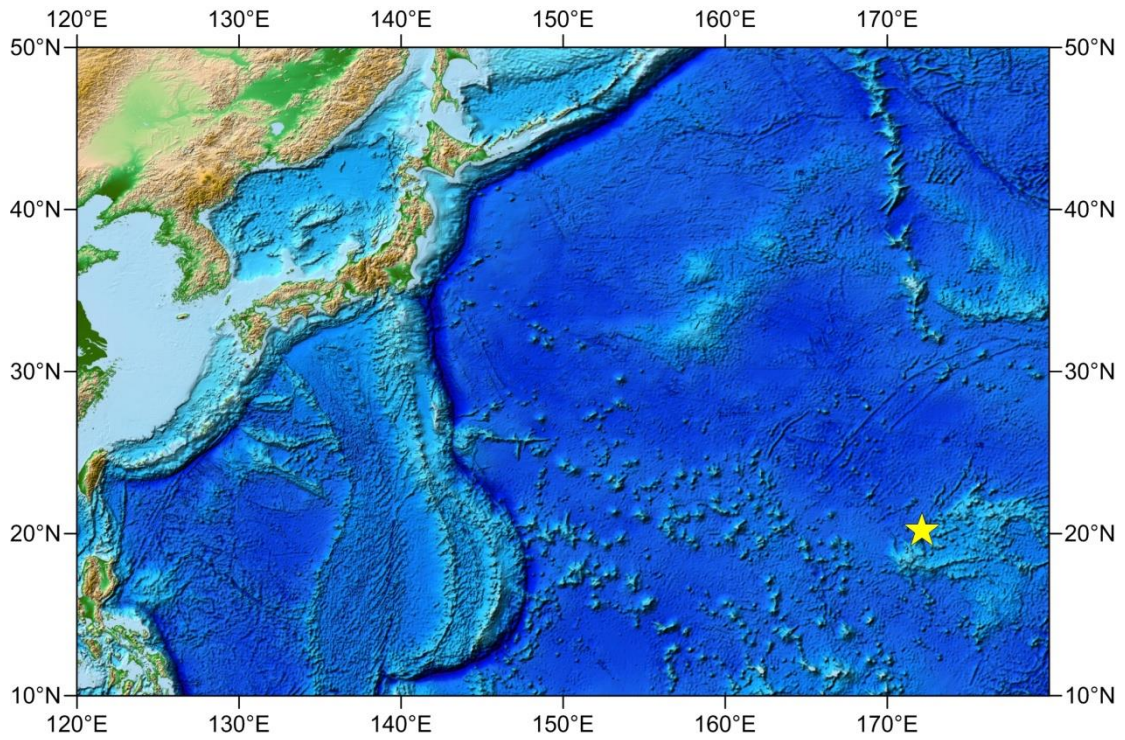
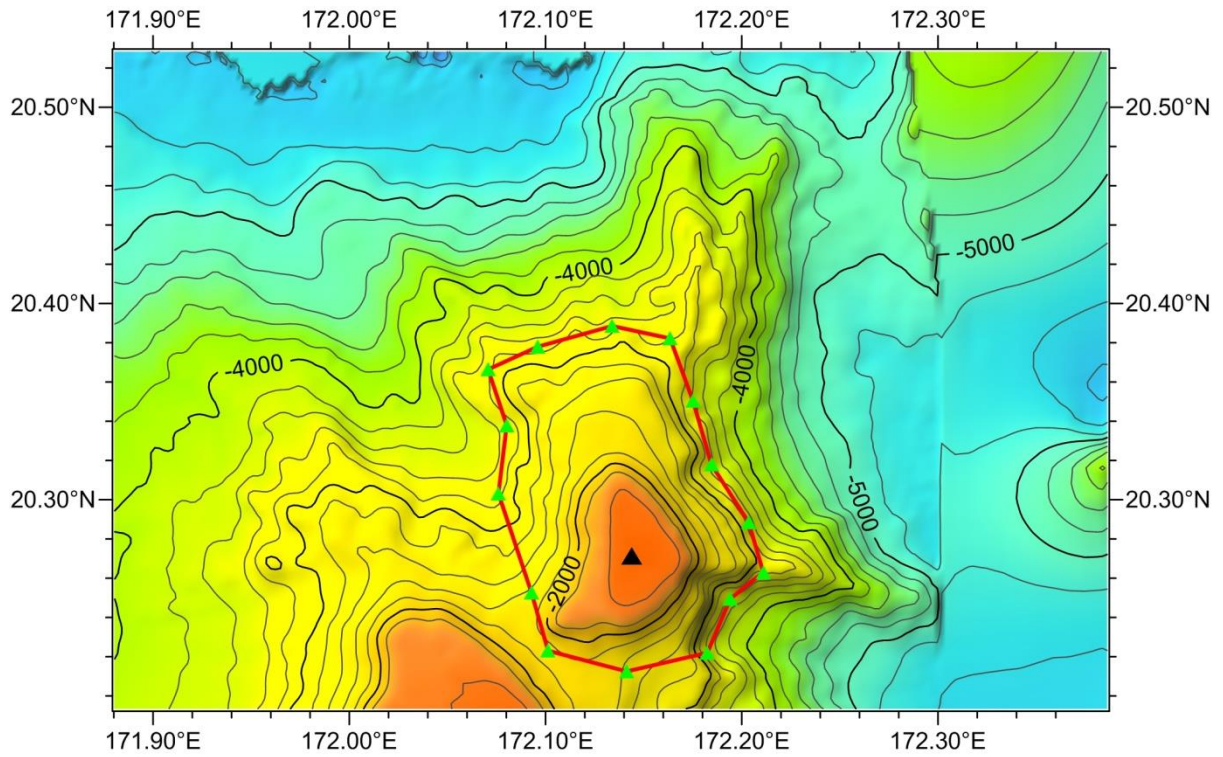



Fig. 1 Location of Leyuan Guyot




-6000 -5000 -4000 -3000 -2000(m)
Fig. 2 Bathymetric map of Leyuan Guyot (Contours are in 200 m)

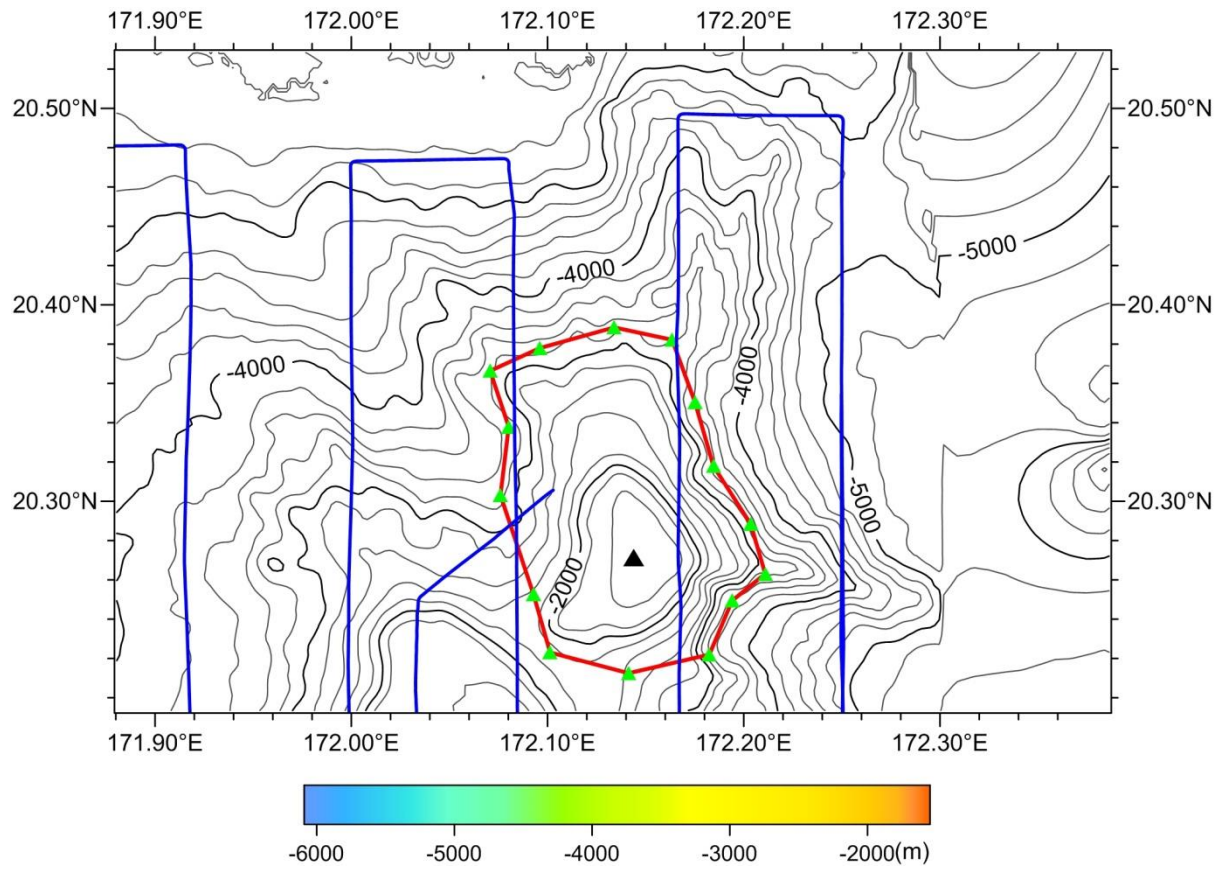


Fig. 3 Bathymetric and survey line map of Leyuan Guyot (Contours are in 200 m, blue ones are survey lines)

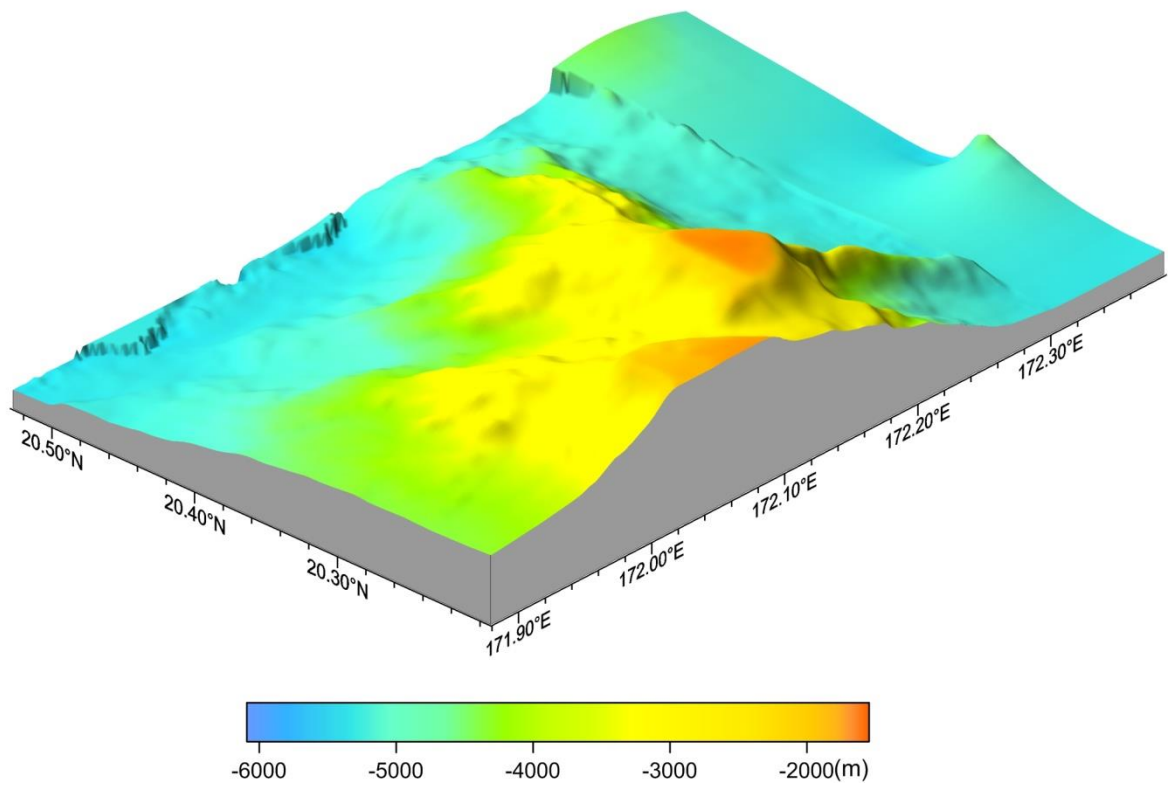


Fig. 4 3-D topography map of Leyuan Guyot

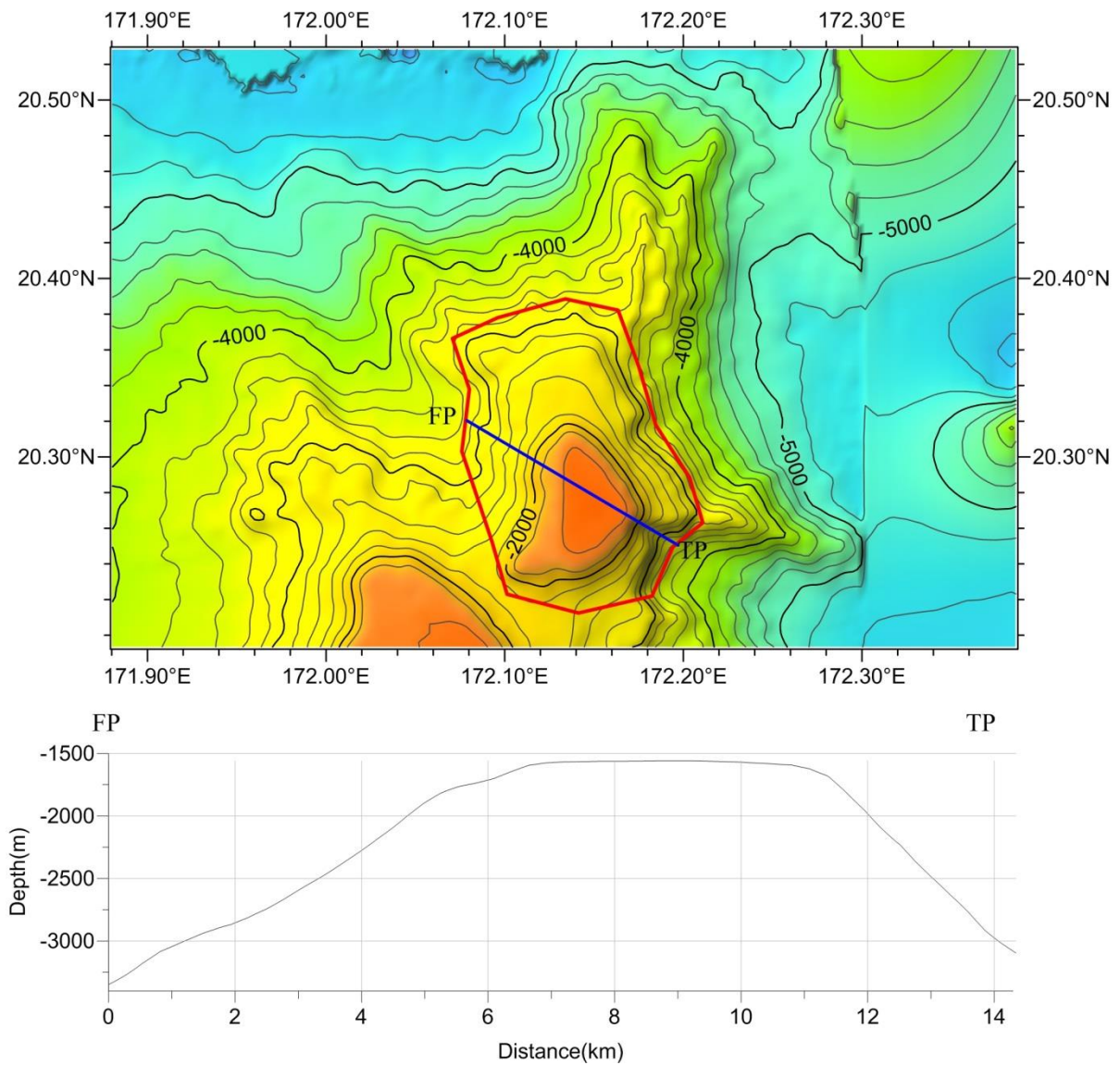


Fig. 5 profile map of Leyuan Guyot