

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:	Yixing Seamount	Ocean or Sea:	South China Sea (SCS)
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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:	16°58.6'N (summit)	116°13.9'E (summit)
	16°59.0'N (bottom)	116°09.8'E (bottom)
	17°01.4'N	116°12.7'E
	17°01.7'N	116°15.2'E
	17°01.4'N	116°17.0'E
	16°59.8'N	116°18.7'E
	16°58.2'N	116°19.3'E
	16°56.9'N	116°19.2'E
	16°55.4'N	116°17.1'E
	16°54.8'N	116°14.3'E
	16°55.0'N	116°12.8'E
	16°57.1'N	116°10.9'E
	16°57.6'N	116°10.1'E
	16°59.0'N	116°09.8'E

Feature Description:	Maximum Depth:	4045m	Steepness :	12 °-18 °
	Minimum Depth :	2307m	Shape :	
	Total Relief :	1738m	Dimension/Size :	15.5km ×11km

Associated Features:	Yixing Seamount lies in the north of the SCS Basin. The peak of the seamount is sharp. The seamount is small.
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Chart/Map References:	Shown Named on Map/Chart:	Atlas of Geology and Geophysics of the South China Sea (1 : 2 000 000) , published in 2015
	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):	Yixing Seamount is named after Yixing (AD 683-727), a Buddhist scholar and astronomer of Tang Dynasty in China. Yixing translated a variety of Indian Buddhist scriptures, then becoming the leader of Buddhist Tantric. Yixing presided over the writing of "Da Yan calendar", a significant astronomical book of ancient China. Yixing also contributed on both the manufacture of astronomical instruments and observation of the astronomical phenomena. This seamount is named after Yixing in memory of his important contribution to astronomy.
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Discovery Facts:	Discovery Date:	2005
	Discoverer (Individual, Ship):	R/V Haiyang Sihao

Supporting Survey Data, including Track Controls:	Date of Survey:	Mar.-Sep., 2005
	Survey Ship:	R/V Haiyang Sihao
	Sounding Equipment:	Multi-beam sounding system (Seabeam2112)
	Type of Navigation:	DGPS
	Estimated Horizontal Accuracy, in nautical miles (M):	<=0.08 nm
	Survey Track Spacing:	5.5nm
	Supporting material can be submitted as Annex in analog or digital form.	

Proposer(s):	Name(s):	Huang Wenxing, Zhu Benduo
	Date:	Aug. 1st, 2017
	E-mail:	Zhubenduo@163.com
	Organization and Address:	Guangzhou Marine Geological Survey, China Geological Survey. No.188 Guanghai Rd., Huangpu District, Guangzhou, China
	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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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) 4b, 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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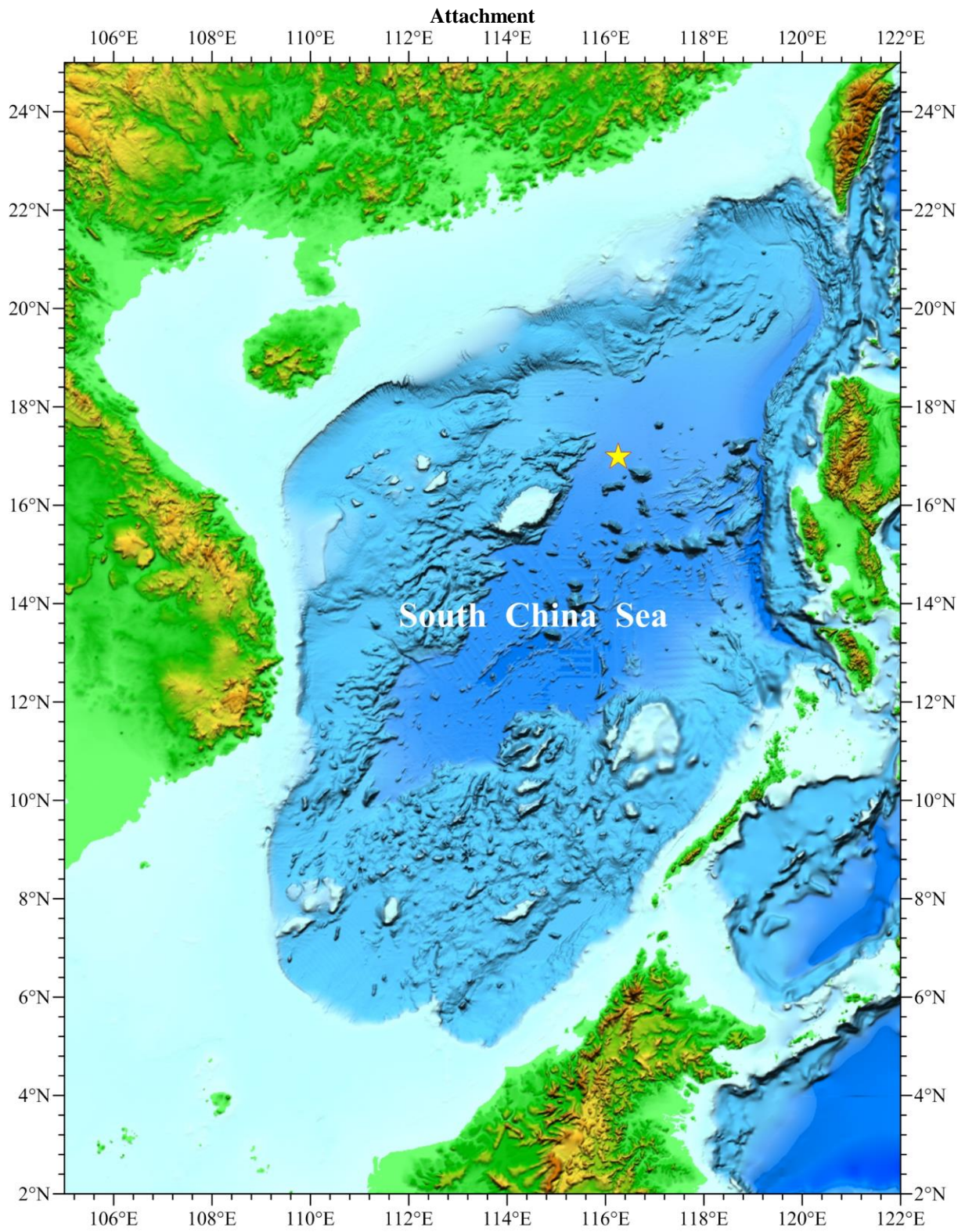


Fig.1 Index map showing the location of Yixing Seamount

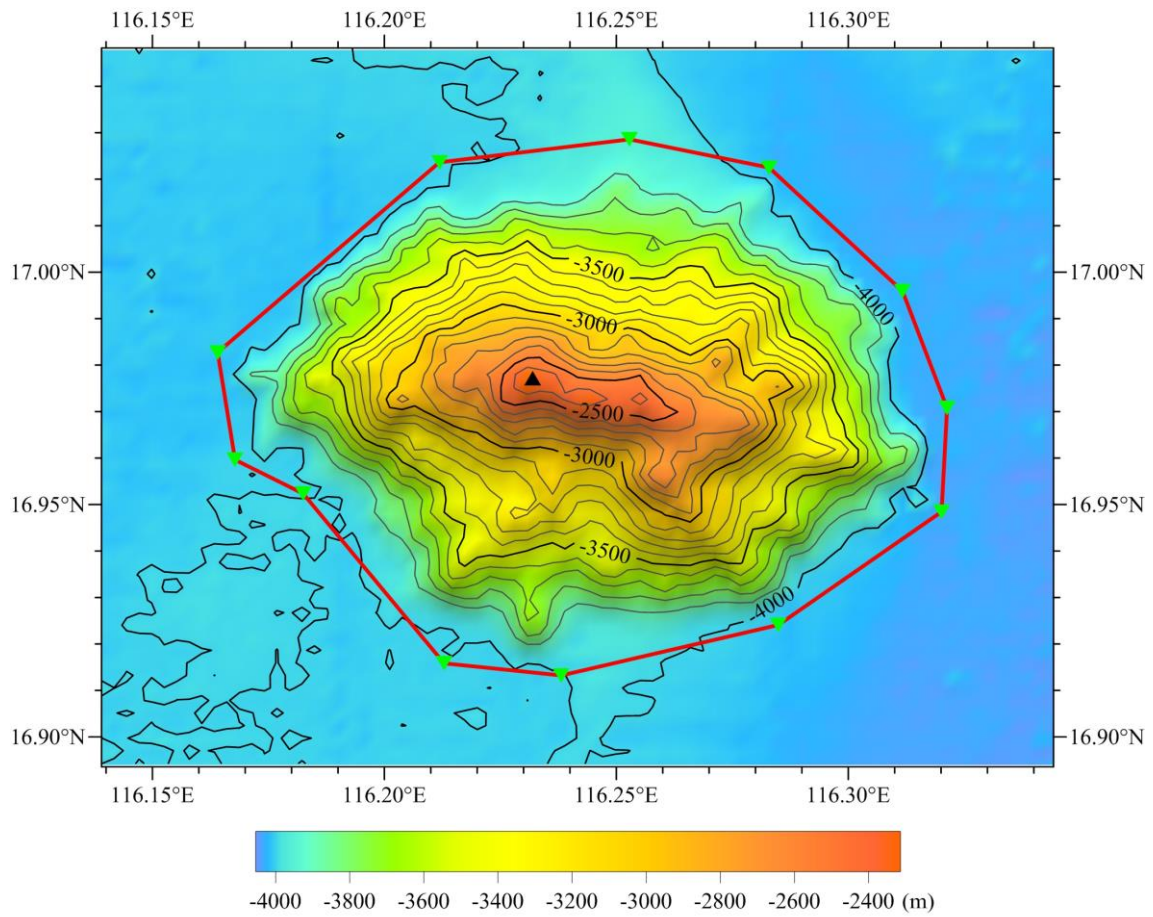


Fig.2 Bathymetric map of Yixing Seamount(Contours are in 100m)

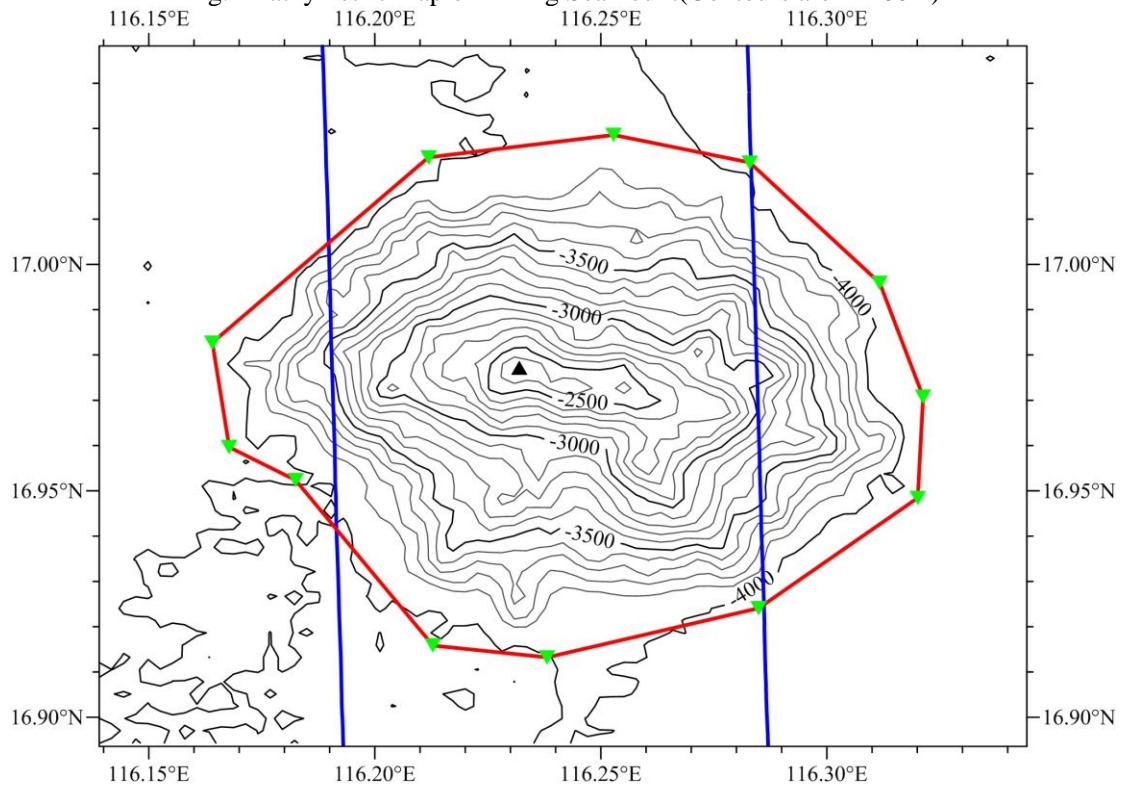


Fig.3 Bathymetric map of Yixing Seamount overlain with track lines(Contours are in 100m,blue lines for the track lines)

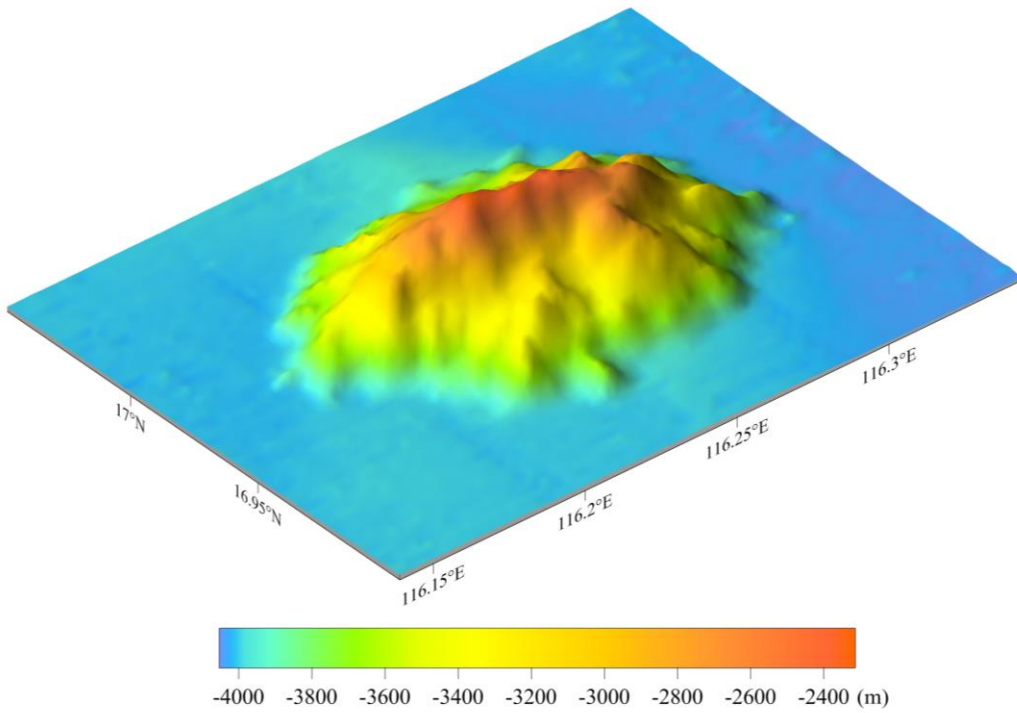


Fig.4 3-D Bathymetric map of Yixing Seamount

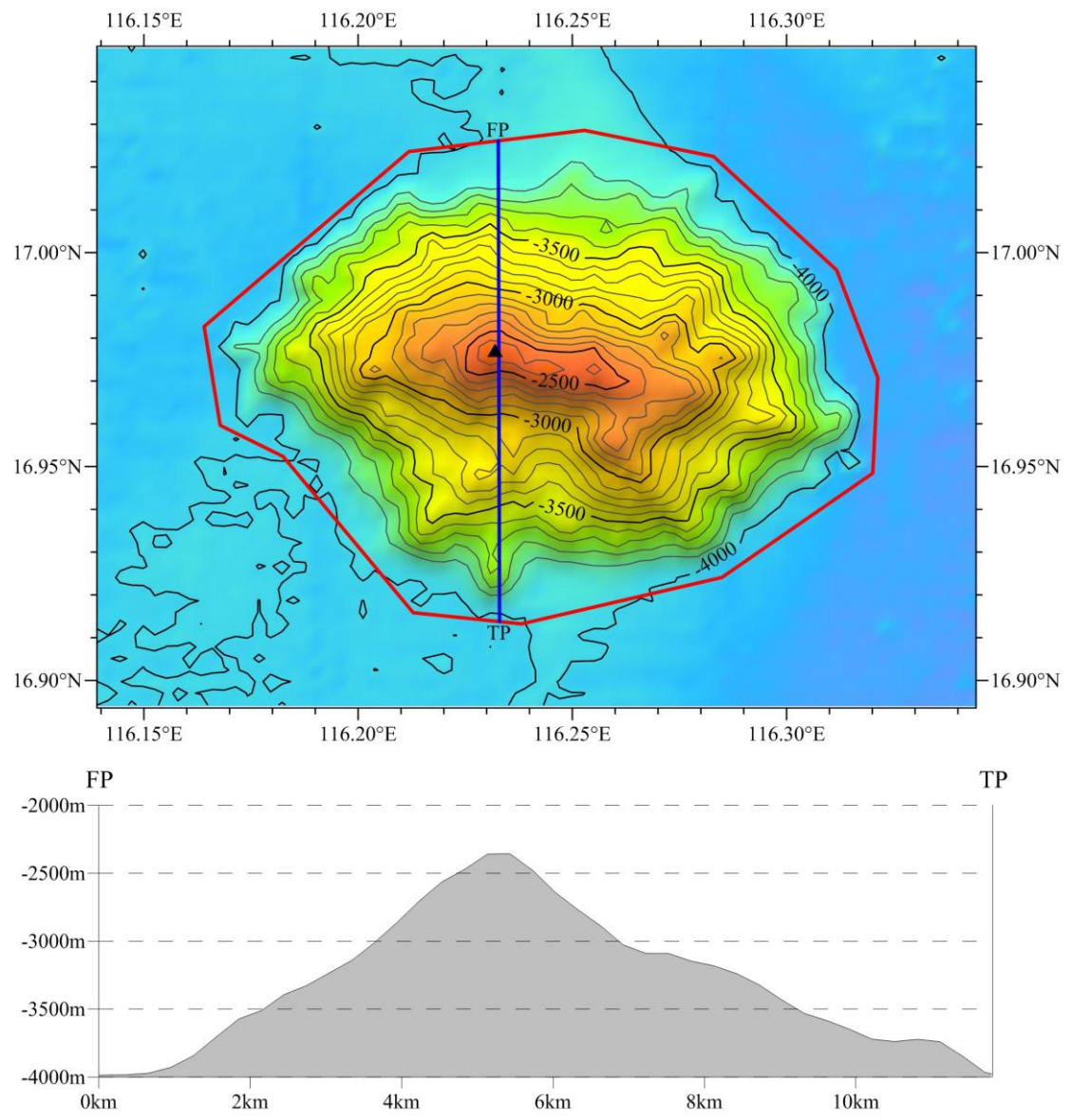


Fig.5 Profile map of Yixing Seamount