

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:	Duanqiao Hill	Ocean or Sea:	Indian Ocean
-----------------------	---------------	----------------------	--------------

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:	37°37.42'S (Top)	50°27.79'E (Top)
	37°37.1'S (Bottom)	50°27.8'E (Bottom)
	37°37.1'S	50°27.5'E
	37°37.4'S	50°27.3'E
	37°37.6'S	50°27.2'E
	37°37.8'S	50°27.4'E
	37°37.8'S	50°27.8'E
	37°37.7'S	50°28.1'E
	37°37.6'S	50°28.3'E
	37°37.4'S	50°28.3'E
	37°37.2'S	50°28.2'E
	37°37.1'S	50°28.0'E
	37°37.1'S	50°27.8'E

Feature Description:	Maximum Depth:	1800 m	Steepness :	
	Minimum Depth :	1500 m	Shape :	Near circular
	Total Relief :	300 m	Dimension/Size :	2 km * 1.5 km

Associated Features:	This hill is located at Southwest Indian Ridge and has a near circular shape.
-----------------------------	---

Chart/Map References:	Shown Named on Map/Chart:	
	Shown Unnamed on Map/Chart:	GEBCO 5.09
	Within Area of Map/Chart:	

Reason for Choice of Name (if a person, state how associated with the feature to be named):	An undersea hydrothermal field was found in this area in 2008 and was named "Duanqiao Hydrothermal Field". It develops in the geomorphic unit which is low-lying in both sides and ridgy in the middle relatively, just like a bridge connecting north and south. This hill was found near the hydrothermal field based on AUV topography exploration in 2016 and named "Duanqiao Hill".
--	--

Discovery Facts:	Discovery Date:	2016
	Discoverer (Individual, Ship):	Chinese Qianlong Erhao AUV

Supporting Survey Data, including	Date of Survey:	2016
--	-----------------	------

Track Controls:	Survey Ship:	Chinese Qianlong Erhao AUV
	Sounding Equipment:	bathymetric side-scan sonar (BSSS)
	Type of Navigation:	Phins + DVL + LBL
	Estimated Horizontal Accuracy (nm):	0.1 m
	Survey Track Spacing:	400 m
	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:	jin@comra.org
	Organization and Address:	Fuxingmenwai Street No.1, Xicheng District, Beijing, China China Ocean Mineral Resources R&D Association (COMRA)
	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 Street, Xicheng District, Beijing, China, 100860 heyunxu@sina.com
-----------------	---

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 <u>Principality of MONACO</u> 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/
--	--

Annex

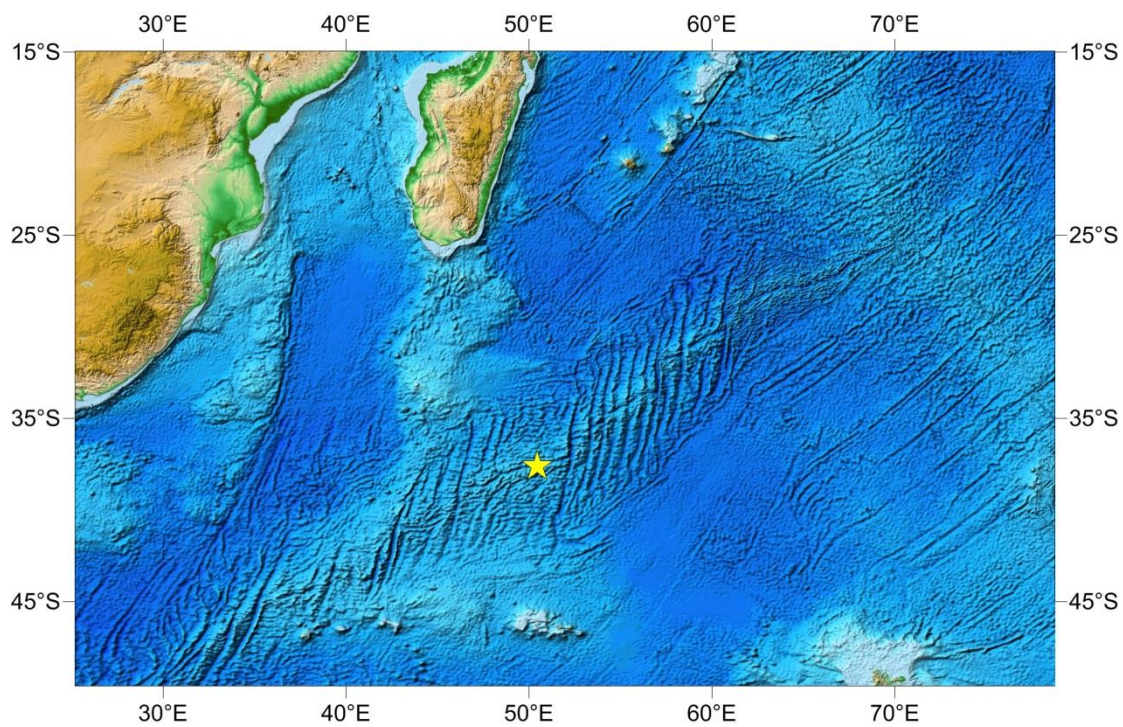


Fig. 1 Location of Duanqiao Hill

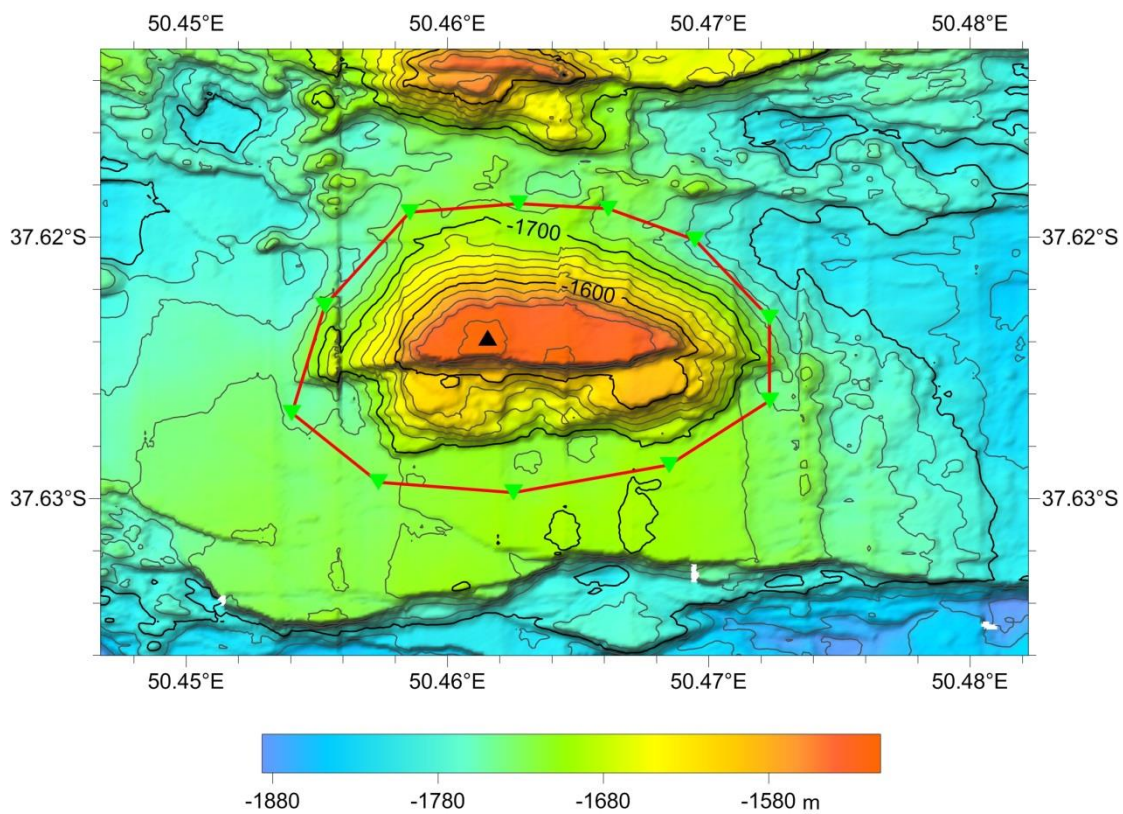


Fig. 2 Bathymetric map of Duanqiao Hill (Contours are in 20 m)

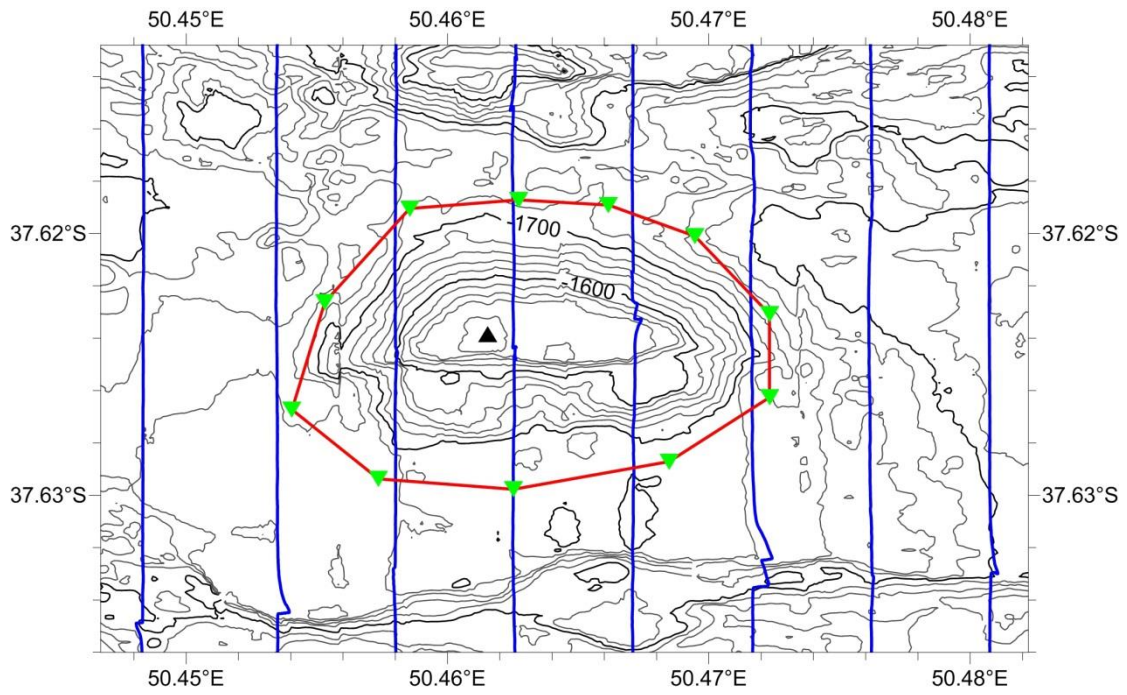


Fig. 3 Bathymetric and survey line map of Duanqiao Hill (Contours are in 20 m, blue ones are survey lines)

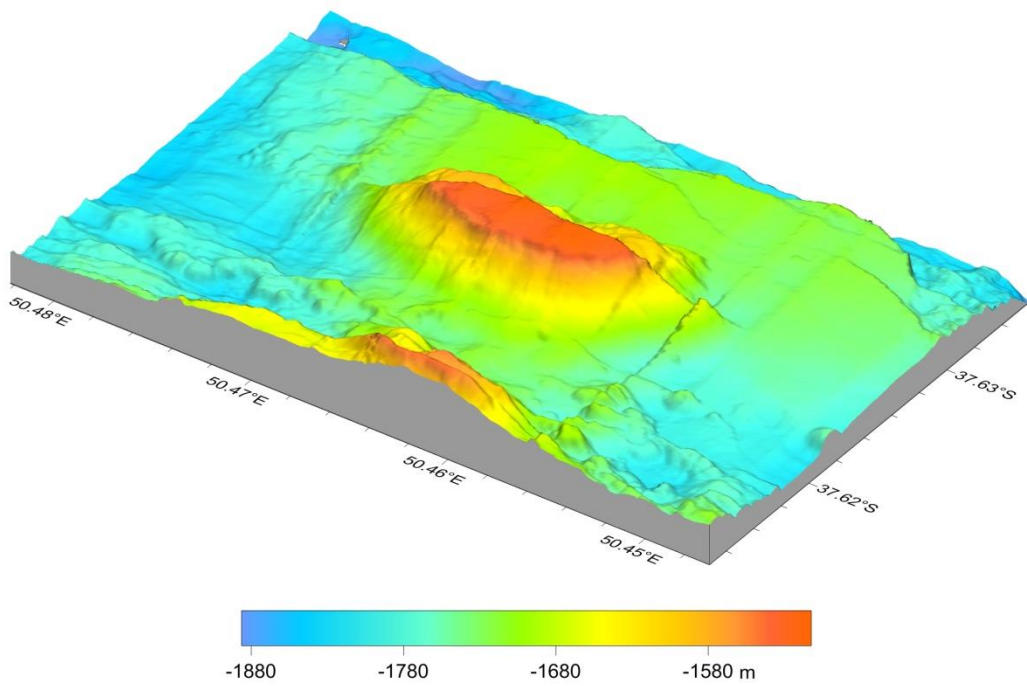


Fig. 4 3-D topography map of Duanqiao Hill

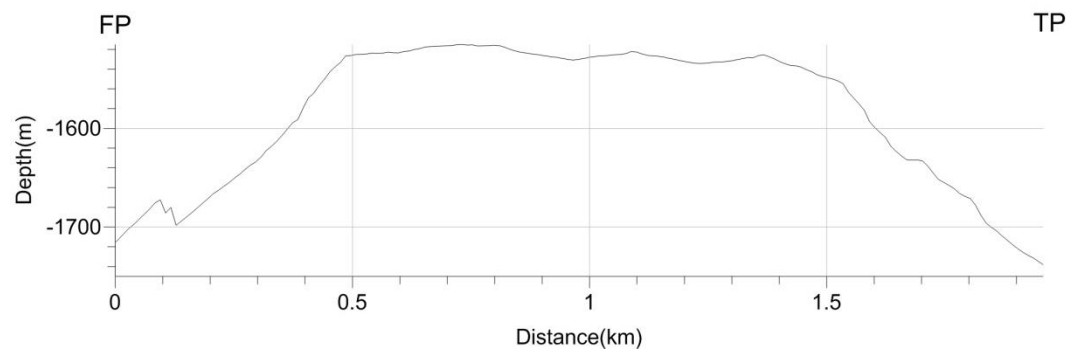
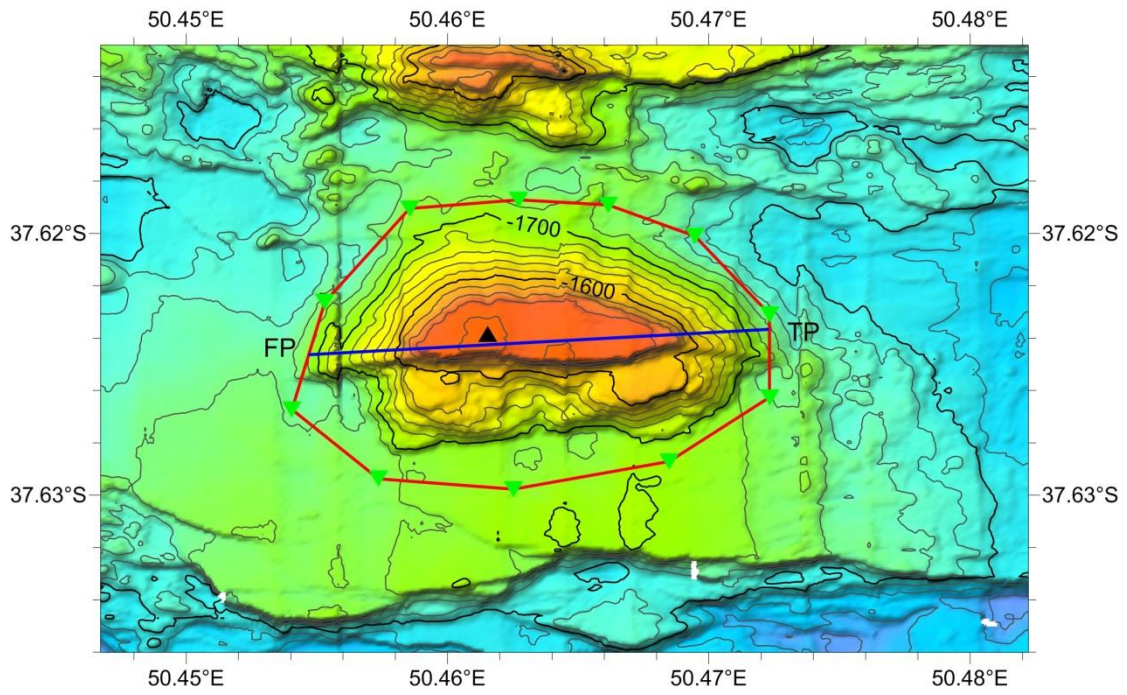


Fig. 5 profile map of Duanqiao Hill