INTERNATIONAL HYDROGRAPHIC ORGANIZATION

INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION (of UNESCO)

UNDERSEA FEATURE NAME PROPOSAL

(Sea **NOTE** overleaf)

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

Name Proposed:	Tianhu Knoll	**Ocean or Sea:**	East Pacific 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:	08°28.3′N（summit）	145°44.7′W（summit）
	08 °30.5′N（bottom)	145 °43.6′W（bottom）
	08 °30.9′N	145 °44.4′W
	08 °30.9′N	145 °45.5′W
	08 °30.1′N	145 °46.5′W
	08 °28.8′N	145 °46.6′W
	08 °27.9′N	145 °46.2′W
	08 °27.3′N	145 °45.3′W
	08 °27.4′N	145 °44.1′W
	08 °27.8′N	145 °43.4′W
	08 °29.6′N	145 °43.0′W
	08 °30.5′N	145 °43.6′W

Feature Description:	Maximum Depth:	5400m	Steepness :	
	Minimum Depth :	4480m	Shape :	
	Total Relief :	920m	Dimension/Size :	7km ×7km

Associated Features:	This knoll lies in the abyssal plain with a caldera on its top.

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)**:**	Tianhu, which means being blessed by the Heaven, comes from a verse in SHI JING • XIAO YA (SHI JING is a collection of ancient Chinese poems)--"We the descendants are of Yu, blessed by Heaven long and true". It means that the endless generations will be blessed by the Heaven. This sea knoll is named Tianhu to represent Chinese people's best wishes for the future generation.

Discovery Facts:	Discovery Date:	Aug. 1995
	Discoverer (Individual, Ship):	R/V Dayang Yihao

Supporting Survey Data, including Track Controls:	Date of Survey:	Aug. 1995
	Survey Ship:	R/V Dayang Yihao
	Sounding Equipment:	Multi-beam sounding system （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):	Haiwen Zhang
	Date:	14 May 2014
	E-mail:	heyunxu@sina.com
	Organization and Address:	Sub Committee on Undersea Feature Names of China Committee on Geographical Names No.1 Fuxingmenwai Ave. Beijing

Remarks:	

Attachment

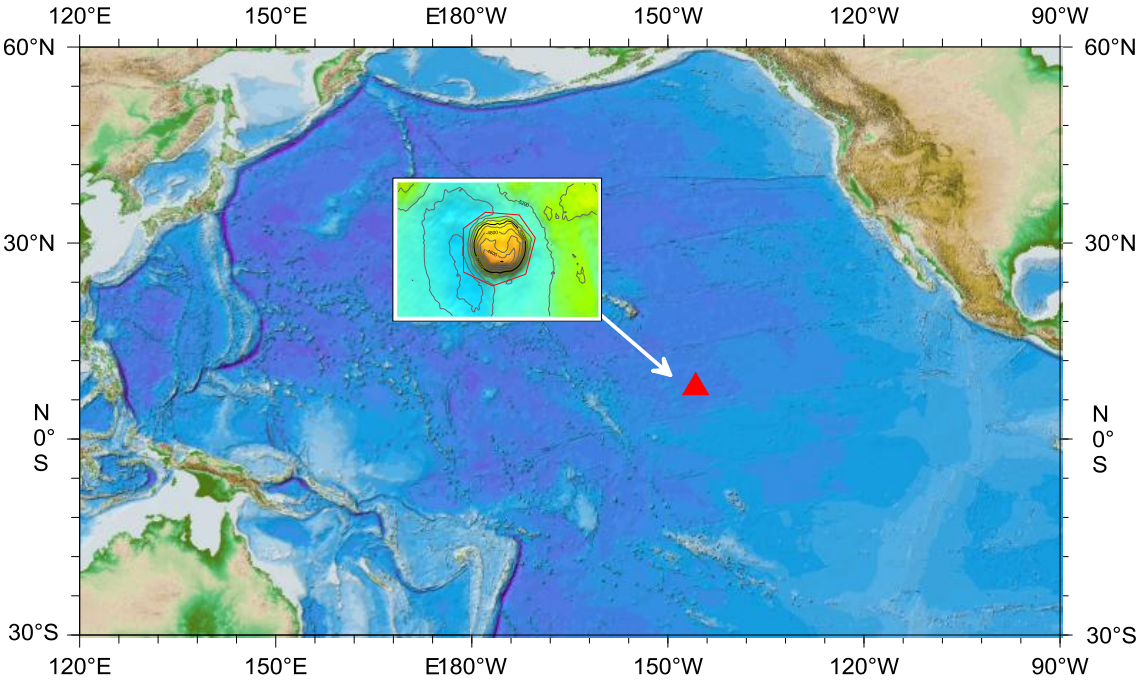

Fig.1 Index map showing the location of the Tianhu Knoll.

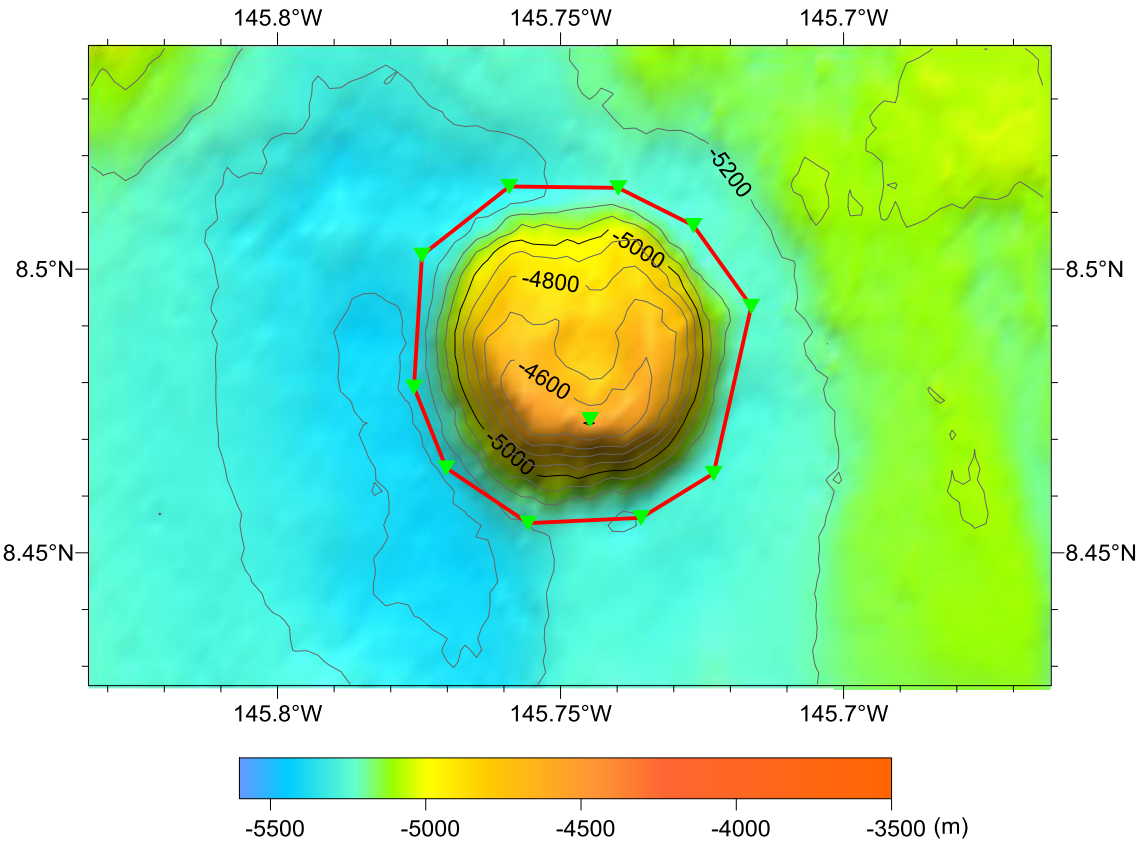

Fig.2 Bathymetric map of the Tianhu Knoll. (Contours are in 100 m)

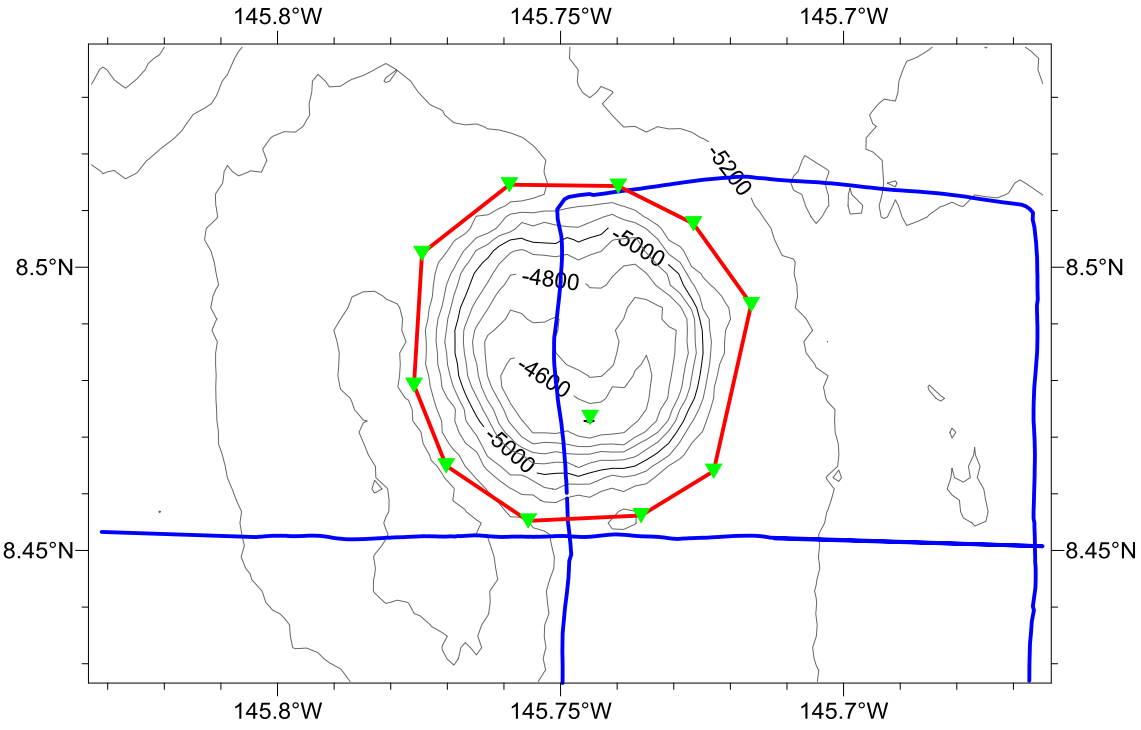

Fig.3 Bathymetric map of the Tianhu Knoll, showing track lines.

(Contours are in 100 m, blue lines for the track lines)

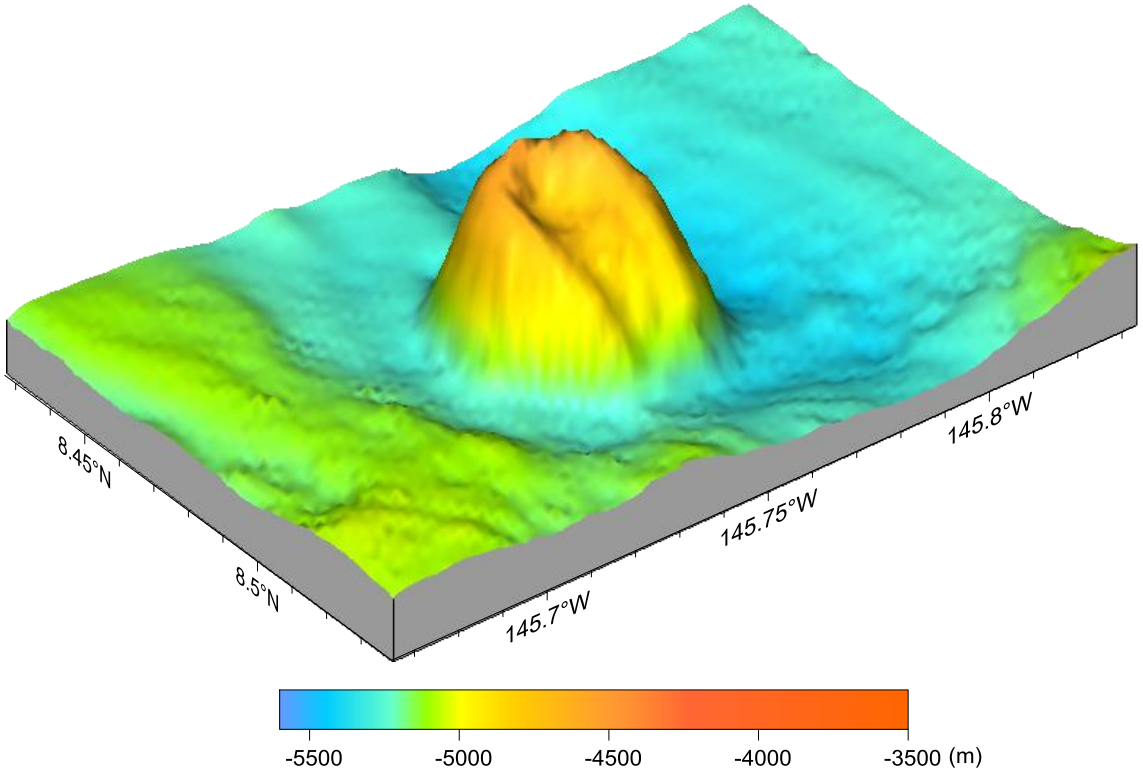

Fig.4 3-D bathymetric map of the Tianhu Knoll.

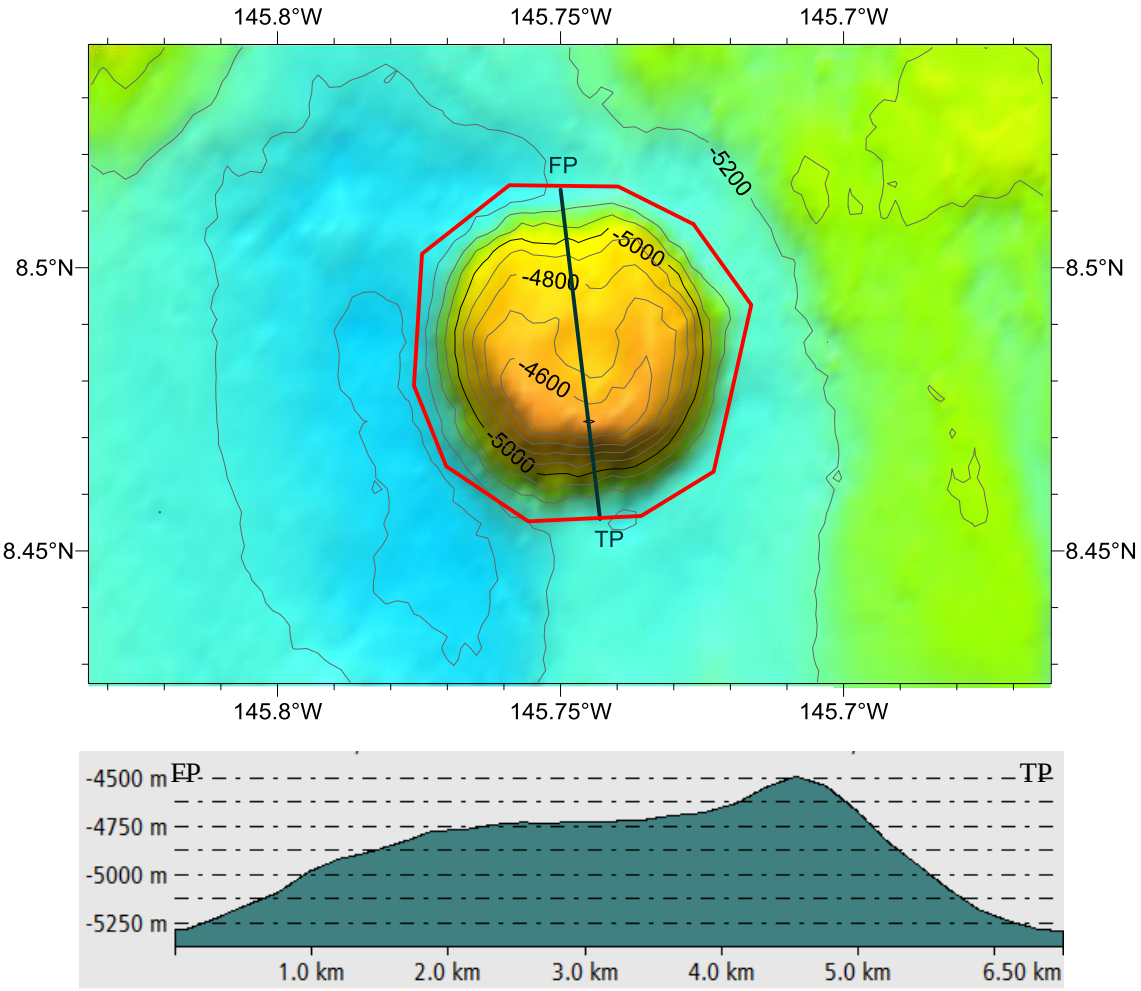

Fig.5 Profile map of the Tianhu Knoll.