

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:	Zhenzhu Canyons	Ocean or Sea:	Southern 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:	Canyon1: 61°14.9'S	59°07.8'W
	61°15.7'S	59°07.8'W
	61°16.6'S	59°07.2'W
	61°18.9'S	59°04.6'W
	61°19.4'S	59°03.2'W
	61°20.9'S	59°03.1'W
	61°23.0'S	59°02.9'W
	61°26.1'S	58°59.8'W
	61°27.2'S	58°58.9'W
	61°27.1'S	58°54.6'W
	61°28.5'S	58°53.8'W
	61°28.8'S	58°54.5'W
	Canyon2: 61°28.9'S	58°55.3'W
	61°29.0'S	58°56.8'W
	61°29.6'S	58°58.0'W
	61°30.7'S	58°59.3'W
	61°32.4'S	59°01.4'W
	61°34.2'S	59°02.1'W
	61°35.5'S	59°01.7'W
	61°36.5'S	59°01.1'W
	61°37.8'S	59°00.1'W
	Canyon3: 61°30.8'S	58°55.9'W
	61°32.2'S	58°55.5'W
	61°32.9'S	58°56.0'W
	61°33.7'S	58°55.5'W
	61°34.3'S	58°55.4'W
	61°34.8'S	58°55.8'W
	Canyon4: 61°28.8'S	58°54.5'W
	61°29.2'S	58°55.7'W
	61°29.8'S	58°56.3'W
	61°31.8'S	58°55.2'W
	61°32.9'S	58°53.9'W
	61°33.1'S	58°51.7'W
	61°34.1'S	58°49.1'W
	Canyon5: 61°29.1'S	58°54.8'W
	61°29.7'S	58°54.5'W
	61°30.8'S	58°53.3'W
	61°32.0'S	58°51.4'W
	61°33.0'S	58°49.3'W
	Canyon6: 61°28.8'S	58°54.4'W

	61°29.3'S	58°52.9'W
	61°29.9'S	58°51.4'W
	61°30.7'S	58°50.2'W
	61°31.7'S	58°49.2'W
	61°32.2'S	58°48.7'W
Canyon7:	61°28.9'S	58°53.6'W
	61°28.5'S	58°52.3'W
	61°28.7'S	58°50.4'W
	61°29.6'S	58°48.3'W
	61°30.7'S	58°47.5'W
	61°31.8'S	58°46.6'W
	61°32.4'S	58°45.5'W
Canyon8:	61°29.6'S	58°48.2'W
	61°30.0'S	58°47.0'W
	61°30.6'S	58°45.8'W
	61°31.2'S	58°44.7'W
	61°31.6'S	58°43.8'W
	61°31.9'S	58°43.4'W
Canyon9:	61°26.2'S	58°34.5'W
	61°26.8'S	58°37.1'W
	61°27.3'S	58°39.8'W
	61°27.7'S	58°42.0'W
	61°28.0'S	58°44.9'W
	61°28.1'S	58°47.0'W
	61°27.9'S	58°48.5'W
	61°27.1'S	58°49.4'W
	61°26.7'S	58°50.4'W
	61°26.5'S	58°52.7'W
	61°26.7'S	58°55.0'W
	61°27.2'S	58°56.7'W

Feature Description:	Maximum Depth:	4470m	Steepness :	
	Minimum Depth :	756m	Shape :	Linear
	Total Relief :	3714m	Dimension/Size :	44.8km ×35km

Associated Features:	Zhenzhu Canyons are located on the continental slope of Southern Ocean and adjacent to the King George Island. Its northern part extends to the South Shetland Trench. The terrain descends from south to north. It consists of eight canyons on the upper part which converge into one canyon on the lower part.
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Chart/Map References:	Shown Named on Map/Chart:	
	Shown Unnamed on Map/Chart:	GEBCO 5.16
	Within Area of Map/Chart:	

Reason for Choice of Name (if a person, state how associated with the feature to be named):	There is a small river called “Zhenzhu River” near the Antarctic Great Wall Station, a scientific station established by China. The river was named by the Chinese Antarctic Research Team in February 1986 and was accepted by SCAR. The word “Zhenzhu” means Pearl. The Canyons are named after Zhenzhu corresponding to the river.
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Discovery Facts:	Discovery Date:	January, 2017
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	Discoverer (Individual, Ship):	R/V Hai Yang Liu Hao
Supporting Survey Data, including Track Controls:	Date of Survey:	January, 2017
	Survey Ship:	R/V Hai Yang Liu Hao
	Sounding Equipment:	Multi-beam sounding system (EM122)
	Type of Navigation:	DGPS
	Estimated Horizontal Accuracy, in nautical miles (M):	<=0.08 nm
	Survey Track Spacing:	3.6nm
	Supporting material can be submitted as Annex in analog or digital form. See Annex	
Proposer(s):	Name(s):	Zhu Benduo, Liu Liqiang, Huang Wenxing
	Date:	March 2019
	E-mail:	Zhubenduo@163.com
	Organization and Address:	China Geological Survey. No.45 Fuwai Street, Xicheng District, Beijing, China.
	Concurrer (name, e-mail, organization and address):	
Remarks:	This proposal has been reviewed and approved by China Subcommittee on Undersea Feature Names (CCUFN). No.64 Fuchengmennei Street, Xicheng District, Beijing, China, 100812 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) 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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Attachment

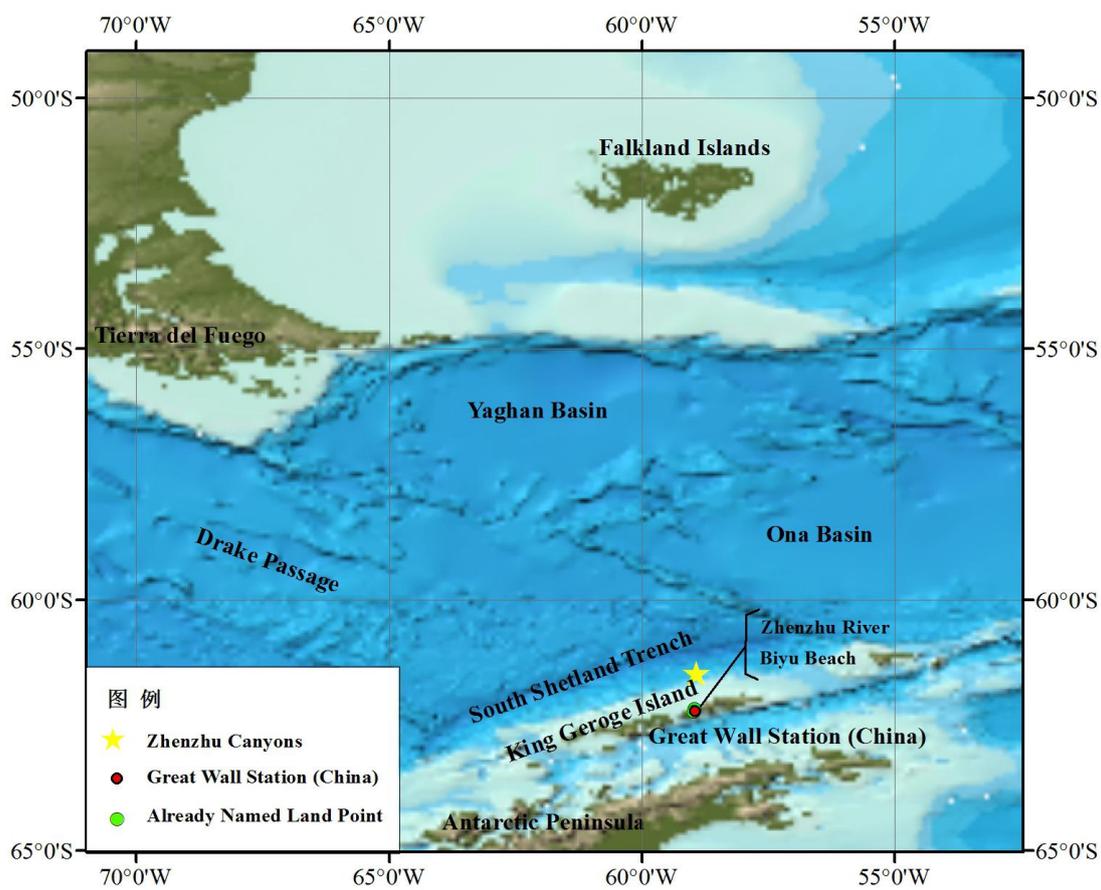


Fig.1 Index map showing the location of Zhenzhu Canyons

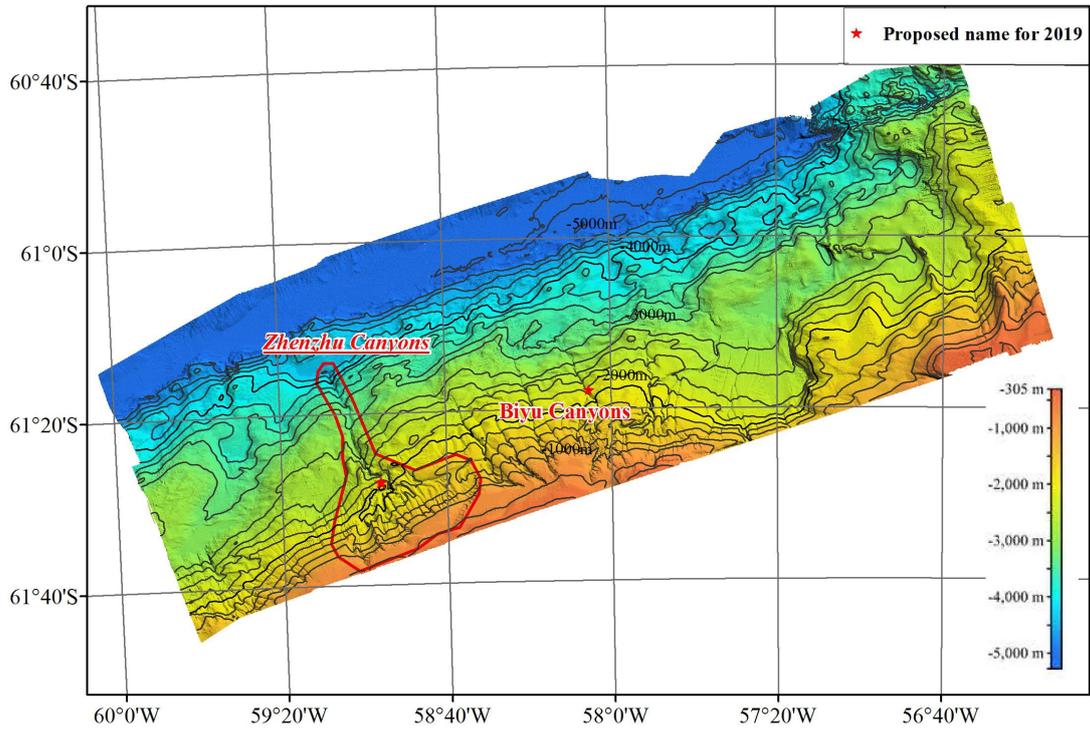


Fig.2 Regional bathymetry map with nearby features of Zhenzhu Canyons

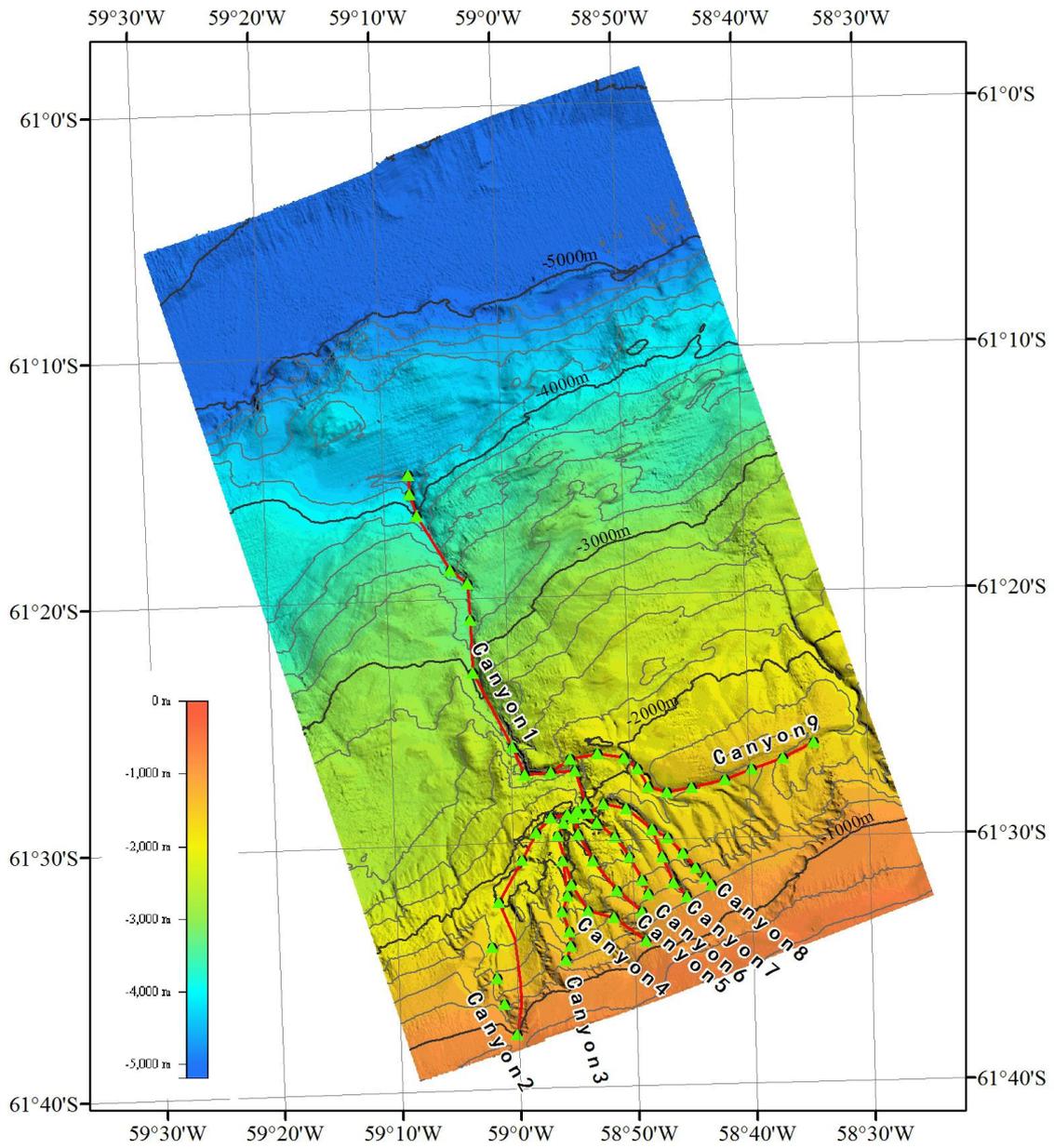


Fig.3 Bathymetric map of Zhenzhu Canyons (Contours are in 200m)

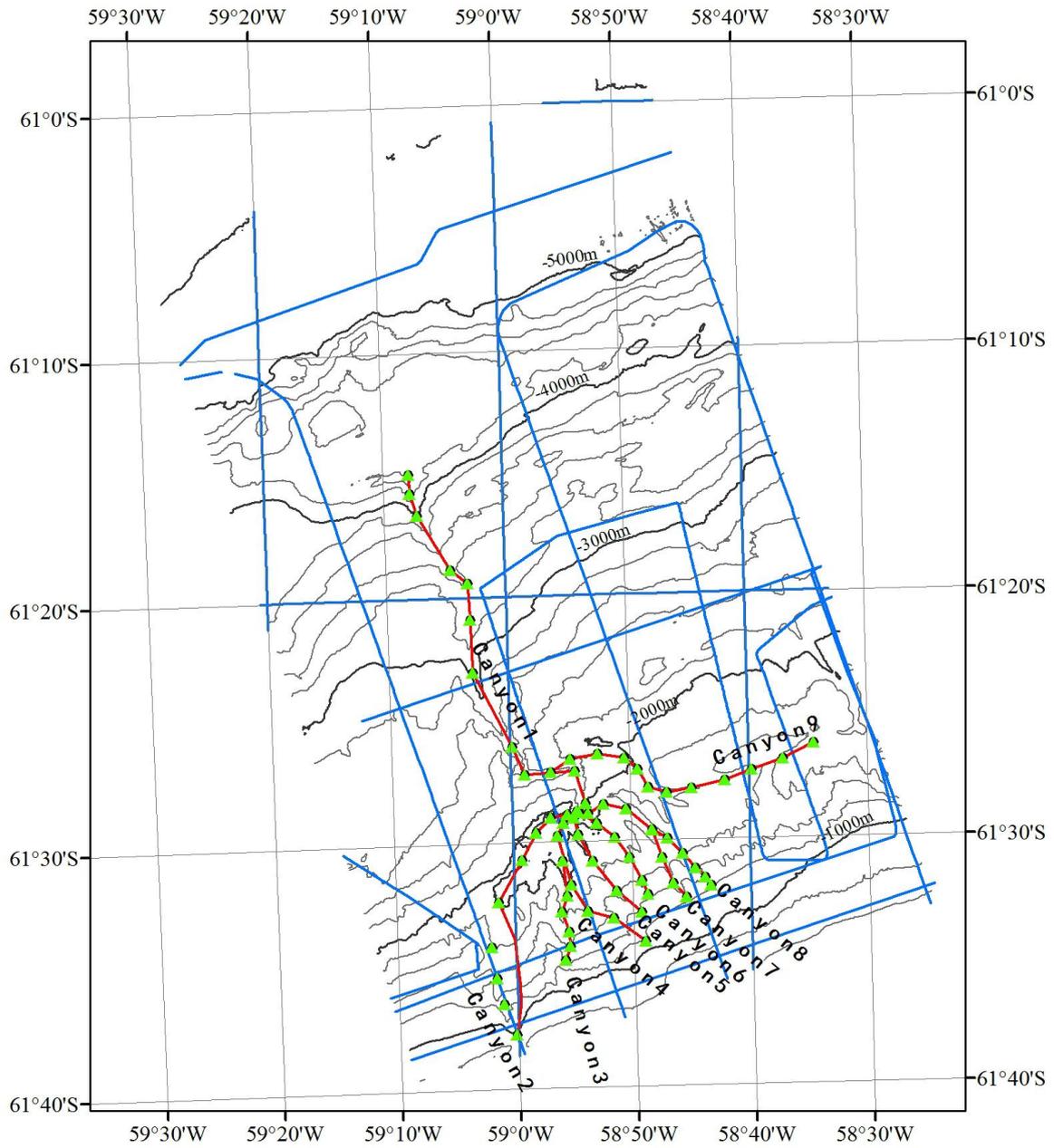


Fig.4 Bathymetric map of Zhenzhu Canyons overlain with track lines (Contours are in 200m, blue lines for the track lines)

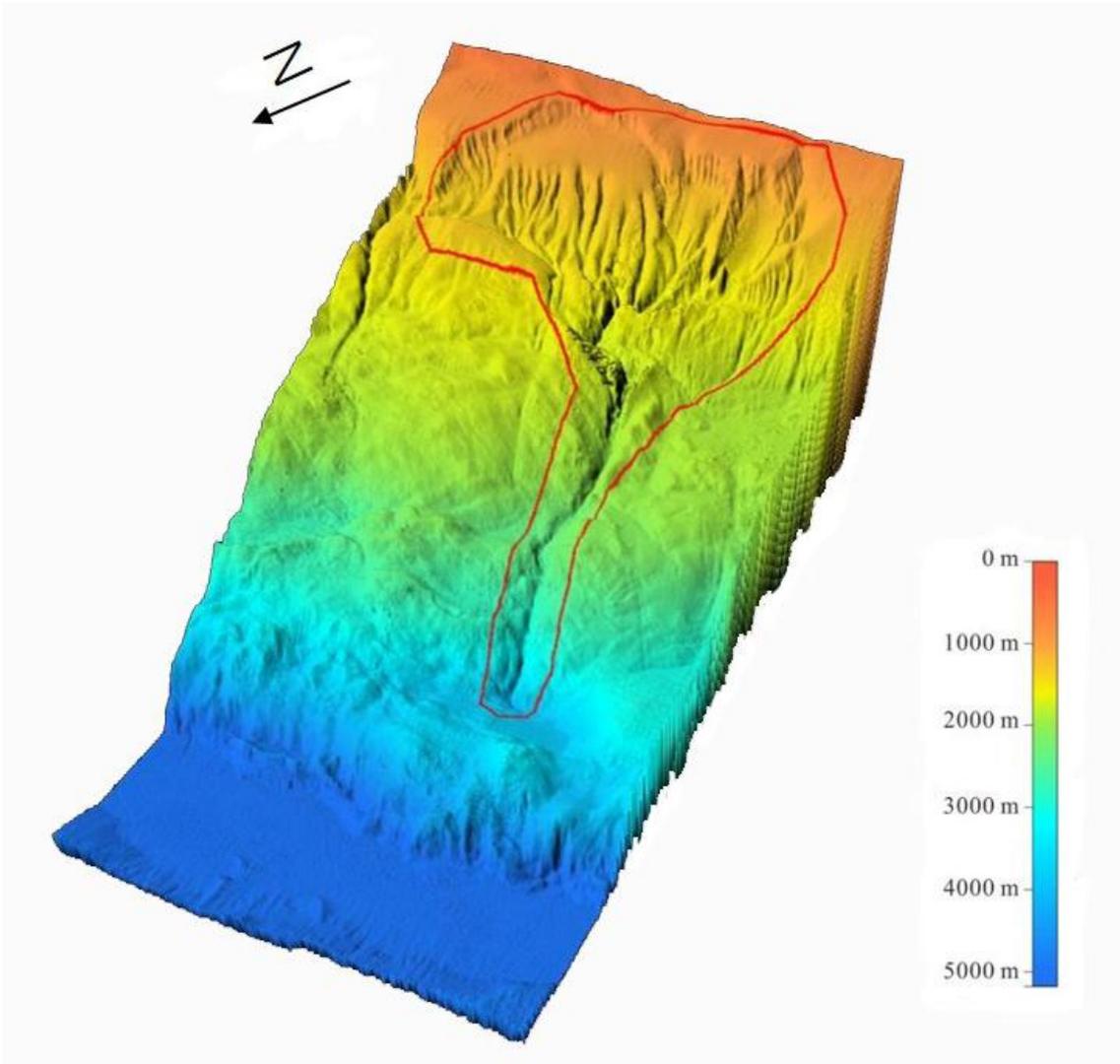


Fig.5 3-D bathymetric map of Zhenzhu Canyons

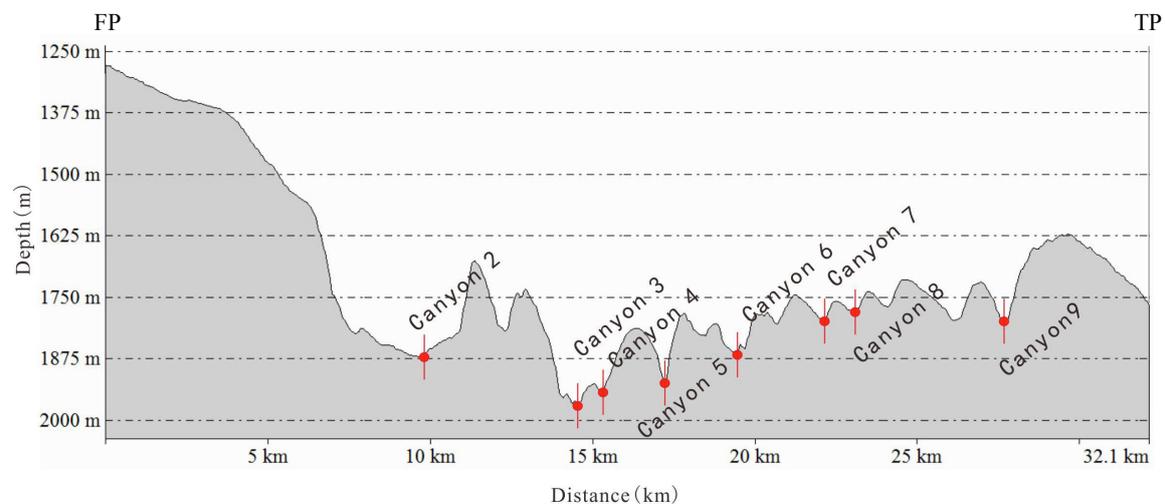
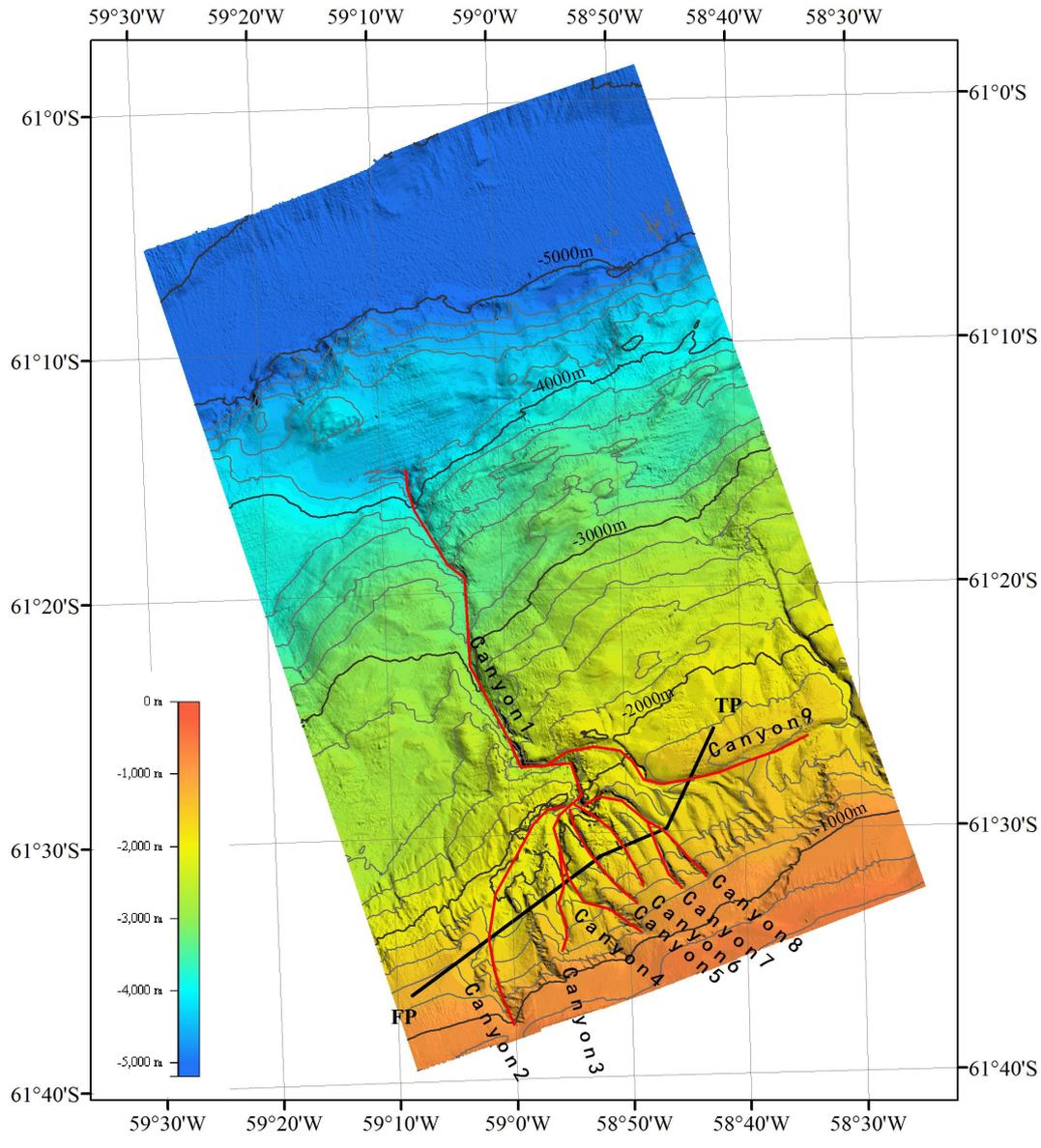


Fig.6 Profile map of Zhenzhu Canyons