

INTERNATIONAL HYDROGRAPHIC ORGANIZATION	INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION (of UNESCO)
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UNDERSEA FEATURE NAME PROPOSAL
(Sea NOTE overleaf)

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

Name Proposed:	Tsunogai Seamount	Ocean or Sea:	Northwest 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:	24°42.35'N	158°33.46'E
	24°50.56'N	158°39.96'E
	24°54.62'N	158°47.95'E
	24°50.06'N	158°57.45'E
	24°44.63'N	159°00.87'E
	24°33.53'N	159°01.56'E
	24°28.43'N	158°54.09'E
	24°27.14'N	158°46.44'E
	24°27.78'N	158°41.32'E
	24°35.09'N	158°35.21'E
24°42.35'N	158°33.46'E	

Feature Description:	Maximum Depth :	5,800 m	Steepness :	
	Minimum Depth :	1,280 m	Shape :	Conical
	Total Relief :	4,520 m	Dimension/Size :	50 km × 50 km

Associated Features:	
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Chart/Map References:	Shown Named on Map/Chart:	6727
	Shown Unnamed on Map/Chart:	
	Within Area of Map/Chart:	W48

Reason for Choice of Name (if a person, state how associated with the feature to be named):	Named after a chemical oceanographer the late Dr. Shizuo Tsunogai.
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Discovery Facts:	Discovery Date:	Jun. 2000
	Discoverer (Individual, Ship):	The Japanese survey vessel "Takuyo"

Supporting Survey Data, including Track Controls:	Date of Survey:	Jun. – Jul. and Nov. – Dec. 2000
	Survey Ship:	The Japanese survey vessel "Takuyo"
	Sounding Equipment:	Multibeam echo sounder Seabeam 2112
	Type of Navigation:	GPS without Selective Availability
	Estimated Horizontal Accuracy (nm):	0.014 nm (26 m)
	Survey Track Spacing:	10 nm
Supporting material can be submitted as Annex in analog or digital form.		

Proposer(s):	Name(s):	JCUFN
	Date:	Aug. 17, 2016
	E-mail:	ico@jodc.go.jp
	Organization and Address:	Hydrographic and Oceanographic Department, Japan Coast Guard Kasumigaseki 3-1-1, Chiyoda-ku, Tokyo 100-8932, Japan
	Concurrer (name, e-mail, organization and address):	

Remarks:	The position of the summit is located in (24°38.72'N, 158°49.93'E).
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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 page 2-9) or, if this does not exist or is not known, either to the IHB 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 IHB or to the IOC, at the following addresses :

International Hydrographic Bureau (IHB) 4, Quai Antoine 1er B.P. 445 MC 98011 MONACO CEDEX Principality of MONACO Fax: +377 93 10 81 40 E-mail: info@ihb.mc	Intergovernmental Oceanographic Commission (IOC) UNESCO Place de Fontenoy 75700 PARIS France Fax: +33 1 45 68 58 12 E-mail: info@unesco.org
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Personal history of the late Dr. Shizuo Tsunogai

Given name: Shizuo

Family name: Tsunogai

August 1938 Born

December 2015 Deceased

Education

1961 B.S., Tokyo University of Education

1966 PhD, Tokyo University of Education

Professional carrier:

1966 Rectorer, Hokkaido University

1971 Associate Professor, Hokkaido University

1975-1976 Visiting scientist, Woods Hole Oceanographic Institution

1981-2002 Professor, Hokkaido University

Remarks:

He was a distinguished chemical oceanographer working for Hokkaido University. He published 209 original papers and had other 312 publications. He supervised total of 42 PhD students. He also contributed to the science community in a variety of ways: international journal editor, members of international committees, advisor to Japanese government committees, and steering committee member of professional societies (the Oceanographic Society of Japan, and the Geochemical Society of Japan). As a chemical oceanographer, his major interest was to reveal the hidden processes ruling the earth system using chemistry as the tool. Therefore, his work included chemical oceanography, atmospheric chemistry, and sedimentology.

List of selected publications:

Miyake, Y. and **S. Tsunogai**, Evaporation of iodine from the ocean, *Journal of Geophysical Research* 68, 3989-3993., 1963.

Tsunogai, S., S. Watanabe, and T. Sato, Is there a “continental shelf pump” for the absorption of atmospheric CO₂?, *Tellus B*, 51, 701-712, 1999.

Tsunogai, S., M. Kusakabe, H. Iizumi, I. Koike, and A. Hattori, Hydrographic features of the deep water of the Bering Sea: the sea of silica, *Deep Sea Research Part A*, 26, 641-659, 1979.

Tsunogai, S., T. Ono, and S. Watanabe, Increase in total carbonate in the western North Pacific water and a hypothesis on the missing sink of anthropogenic carbon., *Journal of Oceanography*, 49, 305-315, 1993.

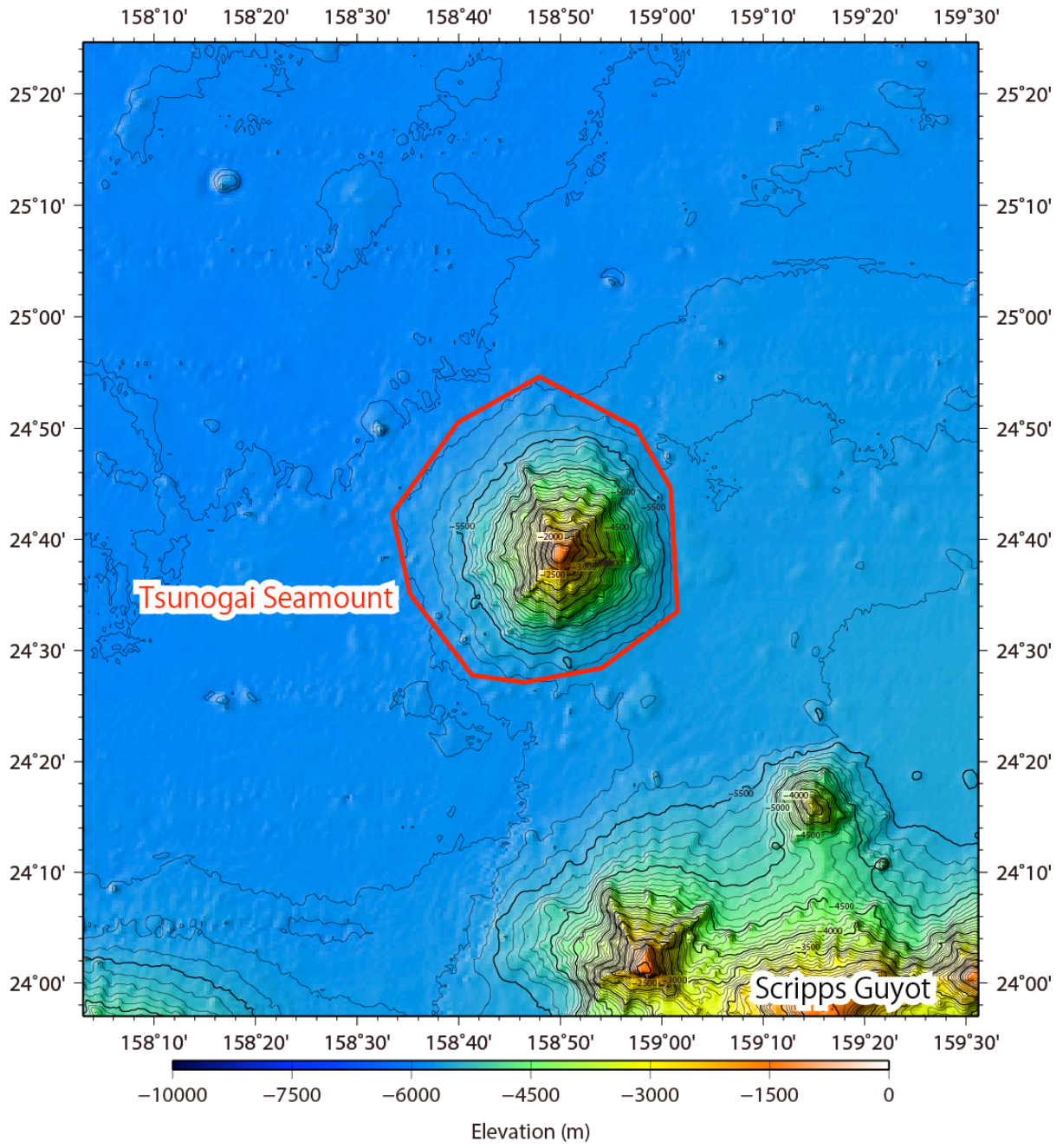


Fig. 1. Bathymetric map of the Tsunogai Seamount. Contours are in 100 m.

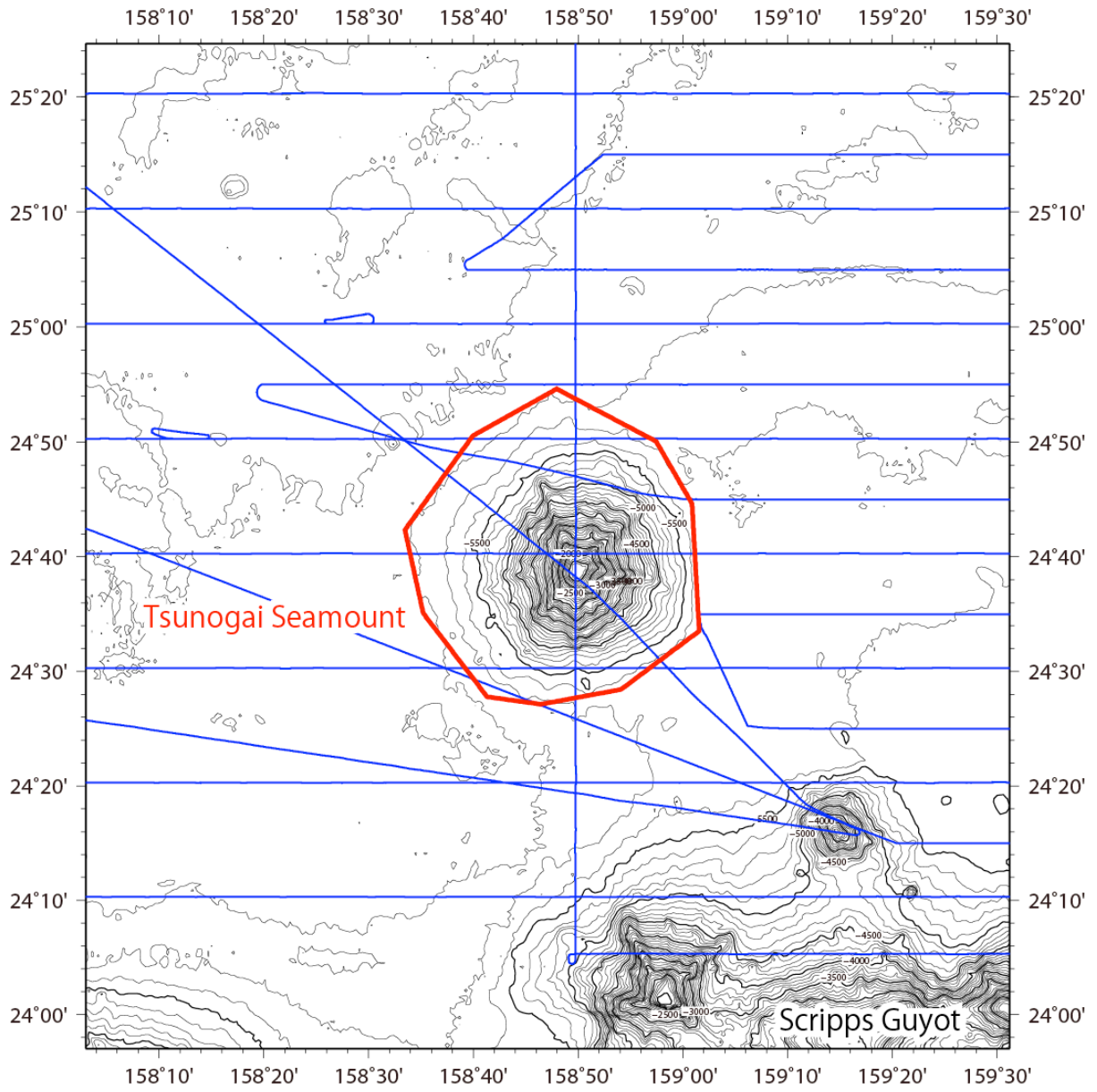


Fig. 2. Bathymetric map of the Tsunogai Seamount, showing with track lines. Contours are in 100 m.

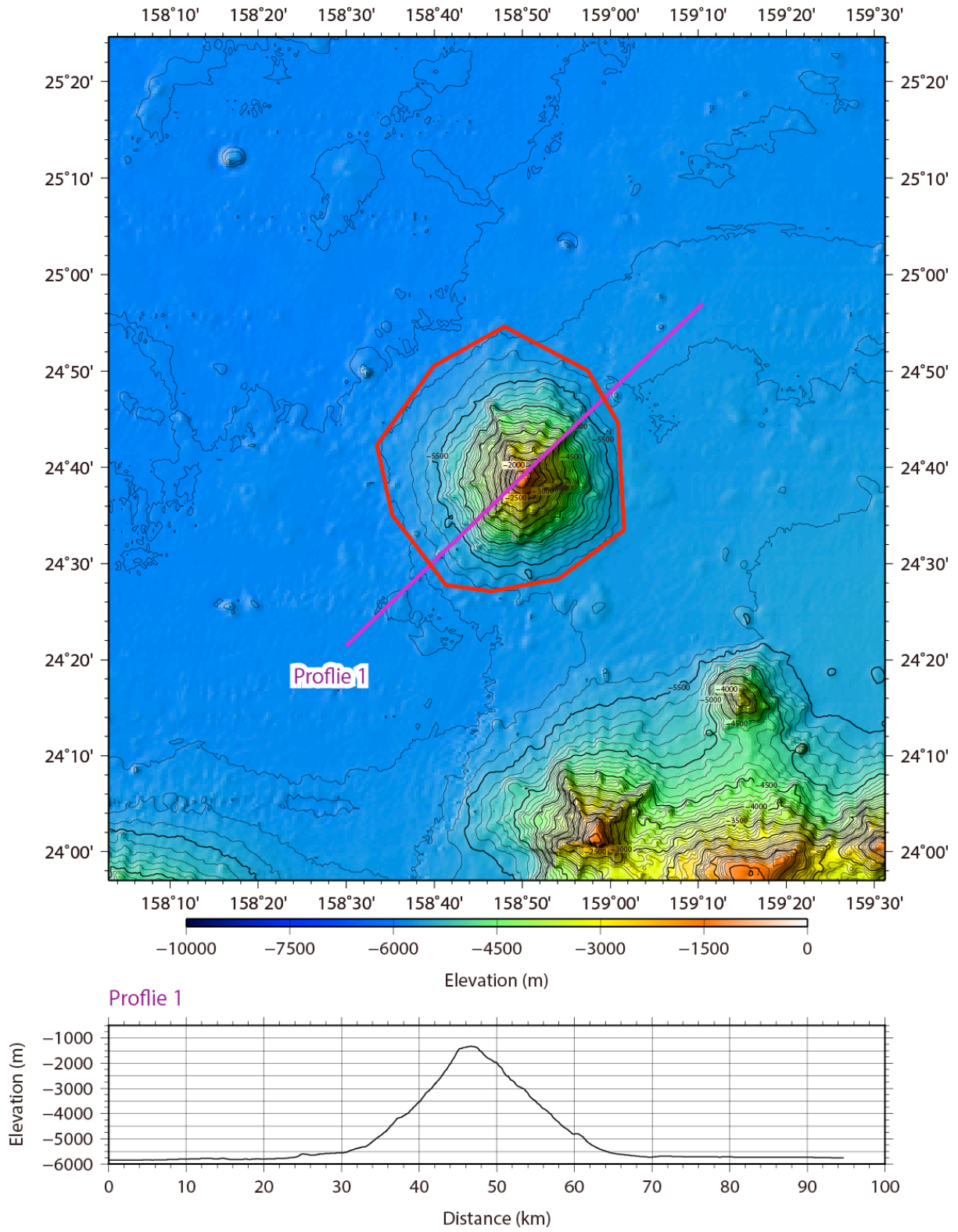


Fig. 3. Bathymetric profile across the Tsunogai Seamount.