

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:	Fukuyama Seamount	Ocean or Sea:	N/A
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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.

Coordinates:	Lat. (e.g. 63°32.6'N)	Long. (e.g. 046°21.3'W)
	22°22.29'N	143°05.85'E
	22°22.82'N	143°05.44'E
	22°23.73'N	143°05.60'E
	22°24.10'N	143°06.00'E
	22°24.24'N	143°06.41'E
	22°24.14'N	143°07.10'E
	22°23.74'N	143°08.02'E
	22°23.26'N	143°08.57'E
	22°22.72'N	143°08.82'E
	22°21.98'N	143°08.89'E
	22°21.01'N	143°08.44'E
	22°20.84'N	143°07.54'E
22°21.30'N	143°07.01'E	
22°22.29'N	143°05.85'E	

Feature Description:	Maximum Depth:	2,509 m	Steepness :	N/A
	Minimum Depth :	1,454 m	Shape :	Conical
	Total Relief :	1,055 m	Dimension/Size :	7 km × 7 km

Associated Features:	East Mariana Ridge, Sakuyama Seamount, Shoyo Seamount
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Chart/Map References:	Shown Named on Map/Chart	Japanese chart #6723 (to be published in July 26, 2019)
	Shown Unnamed on Map/Chart	
	Within Area of Map/Chart	

Reason for Choice of Name (if a person, state how associated with the feature to be named):	Named after Japanese volcanologist and petrologist the late Dr. Hiroyuki Fukuyama (1947-1984). As a young promising volcanologist at the University of Tokyo, he worked on the genesis of island-arc magma, making a major influence to the world volcanological and geological community. He and his colleagues proposed a quantitative model of the mantle wedge and possible mechanism for generating island-arc basalt magmas (Tatsumi et al. 1983). He also worked on the geology of the Minami Iwo-To Island (former name = Minami Iwo-Jima Island), an inaccessible volcano in the northernmost tip of the East Mariana Ridge (Fukuyama, 1983). He and his colleague Dr. Masayuki Sakuyama, along with Fukuyama's nephew were killed in an accident in Iceland on August 10, 1984 during their field work. To
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	<p>commemorate his work on the genesis of island-arc magma, Dr. Robert J. Stern named this feature Fukuyama Seamount which was approved by ACUF in 1987.</p> <ul style="list-style-type: none"> • Fukuyama, H., Geology of Minami-Iwo Volcano, Izu-Bonin Islands, Japan, <i>Journal of Geography</i>, 1983, 92, 55-67 (in Japanese with English abstract). • Tatsumi, Y., Sakuyama, M., Fukuyama, H., and Kushiro, I., Generation of arc basalt magmas and thermal structure of the mantle wedge in subduction zones, 1983, <i>Journal of Geophysical Research</i>, 88(B7), 5815-5825, doi:10.1029/JB088iB07p05815. <p>This feature is located on the East Mariana Ridge, which is in fact the volcanic front of the Mariana Arc. Because of the significance of its tectonic setting, many scientific papers were produced, dealing with the volcanoes along the East Mariana Ridge, including this feature. Among these, the following papers are noted:</p> <ul style="list-style-type: none"> • Bloomer S.H., et al., 1989, Physical volcanology of the submarine Mariana and Volcano arcs, <i>Bulletin of Volcanology</i>, 51, 210-224. • Hein J.R., et al., 2008, Diffuse flow hydrothermal manganese mineralization along the active Mariana and southern Izu-Bonin arc system, western Pacific, <i>Journal of Geophysical Research</i>, 113, B08S14, DOI: 10.1029/2007JB005432. • Naka, J., 1998, An outline of the Shinkai 2000 dive at the Ko-Hiyoshi Seamount, Northern Mariana arc, <i>JAMSTEC Journal of Deep Sea Research</i>, 14, 157-162 (in Japanese with English abstract) • Nishizawa A., et al., 2003, Ocean Bottom Seismographic Observation at Minami-Hiyoshi Seamount at the Northern End of the Mariana Arc, Report of Hydrographic and Oceanographic Researches, 39, 3-21 (in Japanese with English abstract) • Stern R.J., et al., 1984, Unzipping of the volcano arc, Japan, <i>Tectonophysics</i>, 102, 153-174. <p>“Fukuyama Seamount” was first appeared in Bloomer et al. (1989) and used in the following published papers.</p>
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Discovery Facts:	Discovery Date:	Sep. 2001
	Discoverer (Individual, Ship):	Japanese survey vessel "Shoyo"

Supporting Survey Data, including Track Controls:	Date of Survey:	Sep. 2001
	Survey Ship:	Japanese survey vessel "Shoyo"
	Sounding Equipment:	Multibeam echo sounder Seabeam 2112
	Type of Navigation:	GPS without Selective Availability
	Estimated Horizontal Accuracy, in nautical miles (M):	0.014 nm (26 m)
	Survey Track Spacing:	7 nm
	Supporting material can be submitted as Annex in analog or digital form.	

Proposer(s):	Name(s):	JCUFN
	Date:	June 4, 2019
	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):	U.S. BGN ACUF; underseafeatures@nga.mil; U.S. Board on Geographic Names Mail Stop: N62 7501 Heller Road Springfield VA 22150-3647 USA

Remarks:	The position of the summit is located in (22°22.55'N, 143°06.96'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 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 <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/
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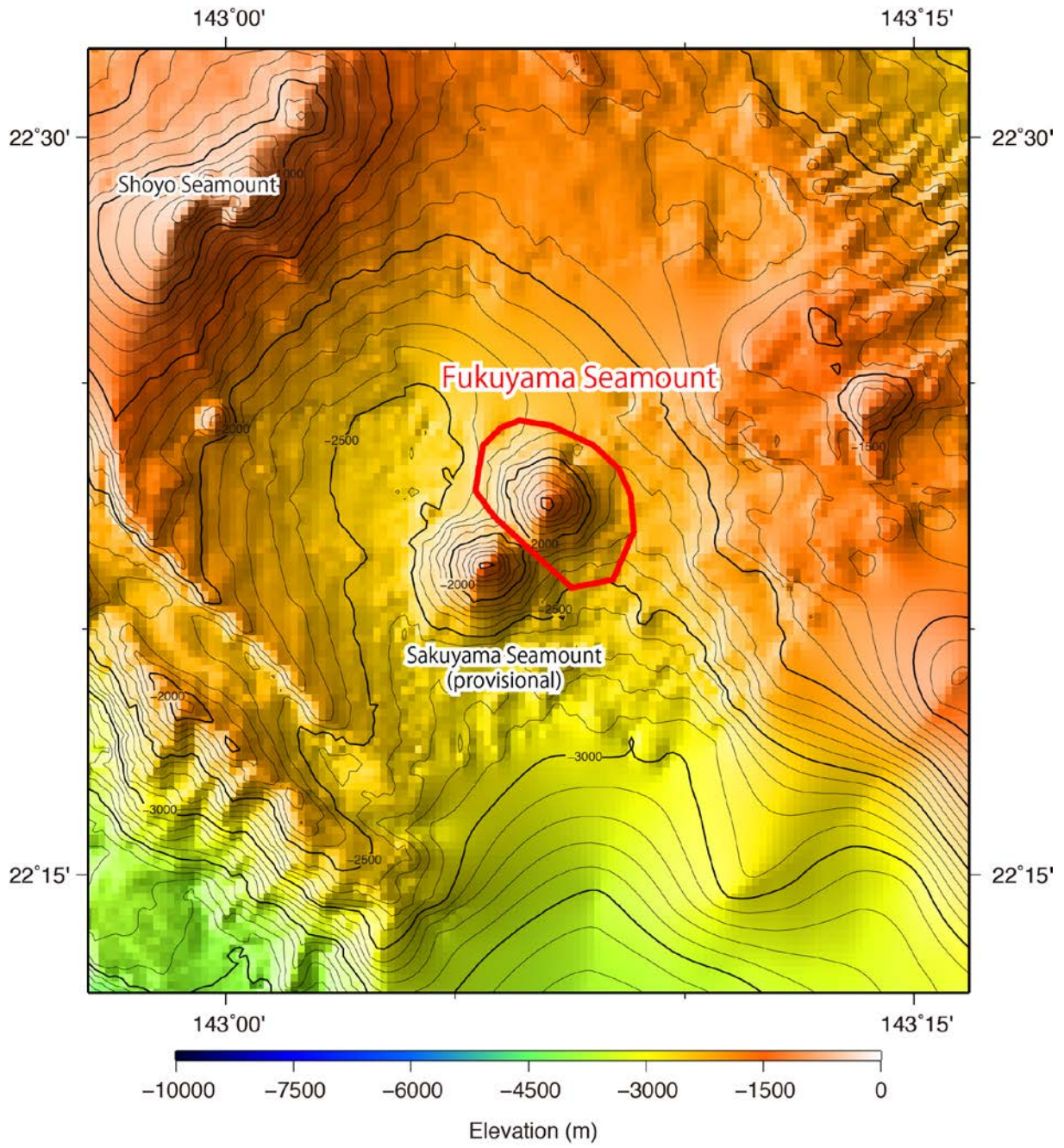


Fig. 1. Bathymetric map of the Fukuyama Seamount. Contours are in 100 m.

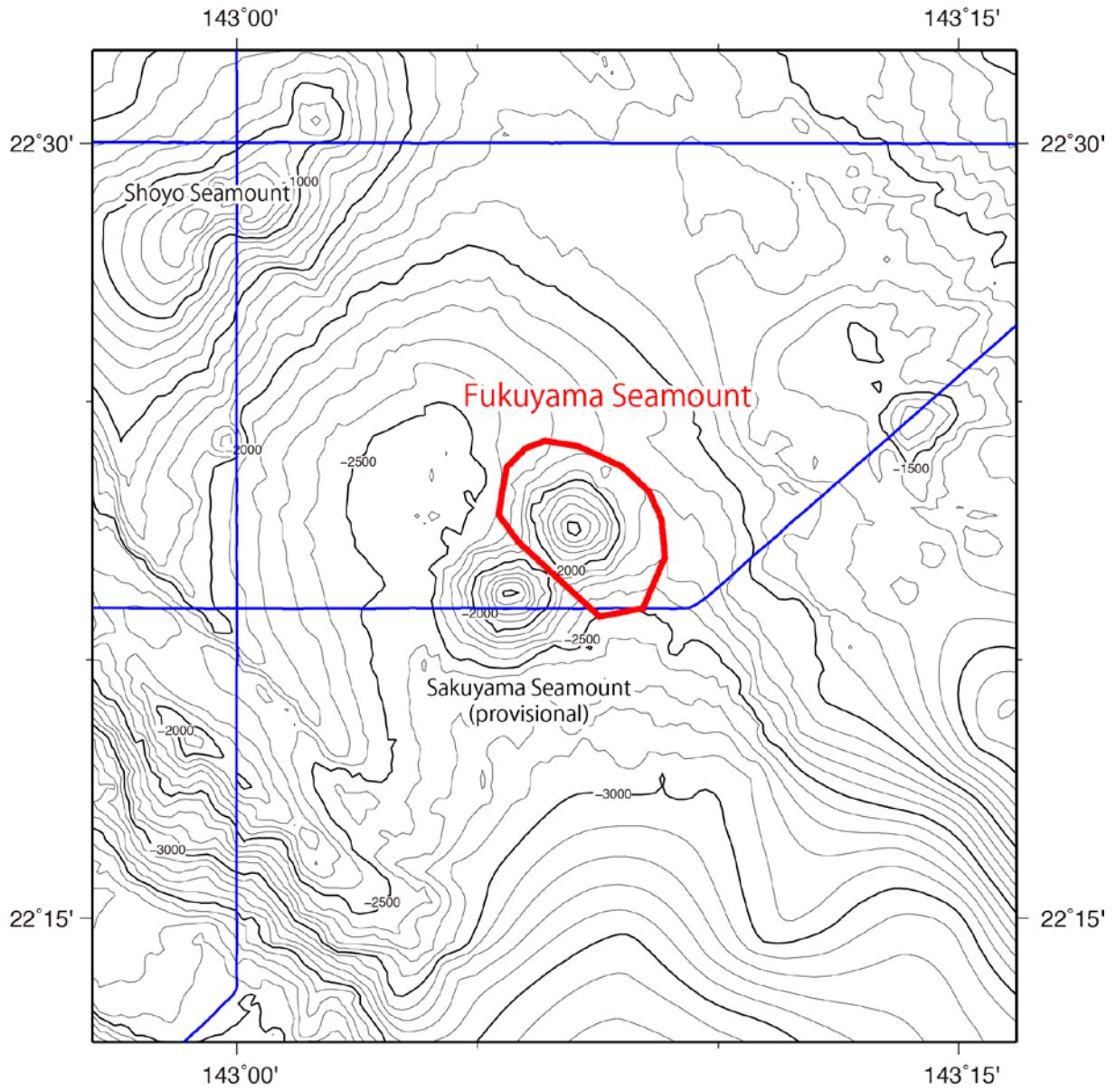


Fig. 2. Bathymetric map of the Fukuyama Seamount, shown with track lines. Contours are in 100 m.

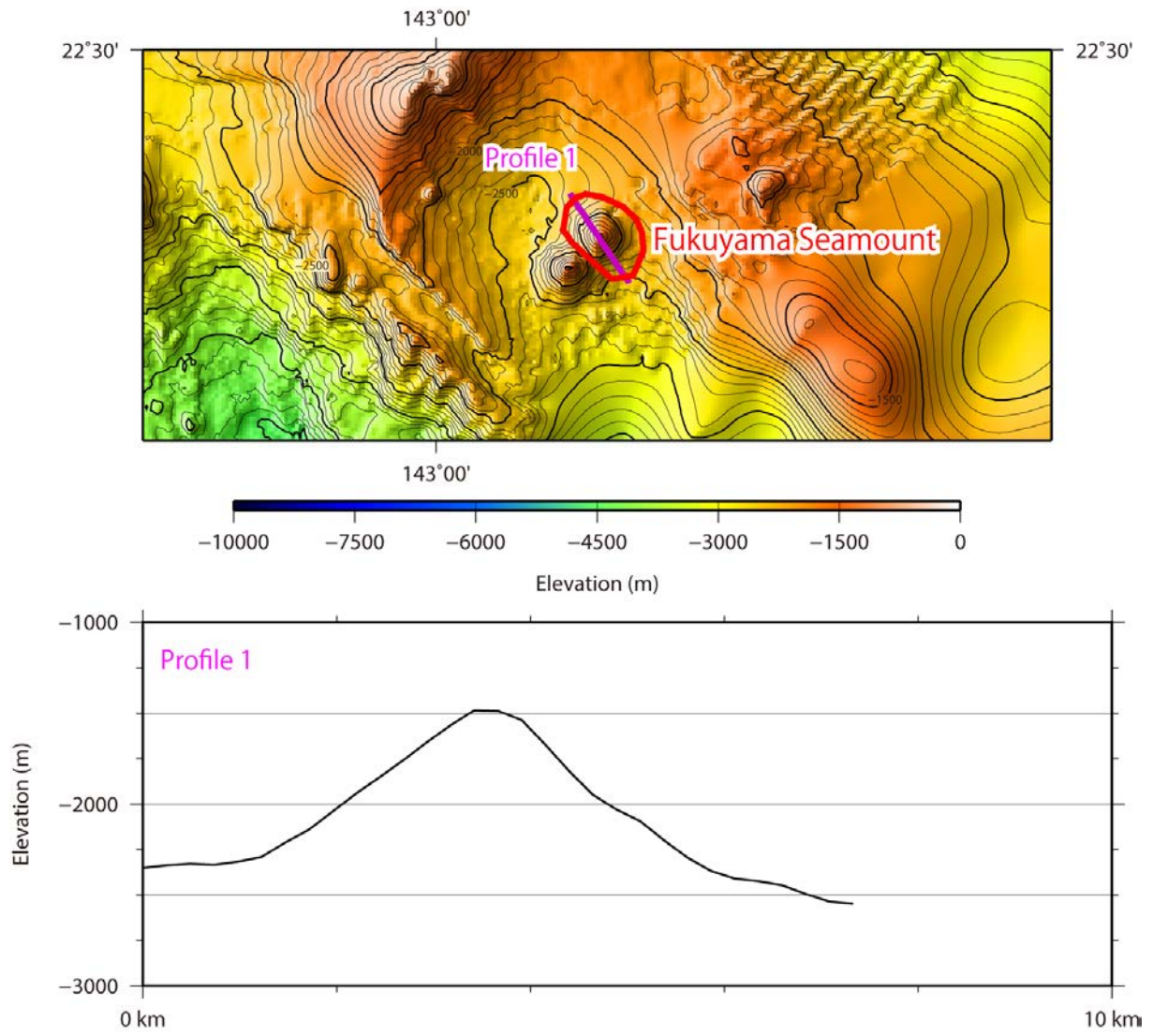


Fig. 3. Bathymetric profile across the Fukuyama Seamount.

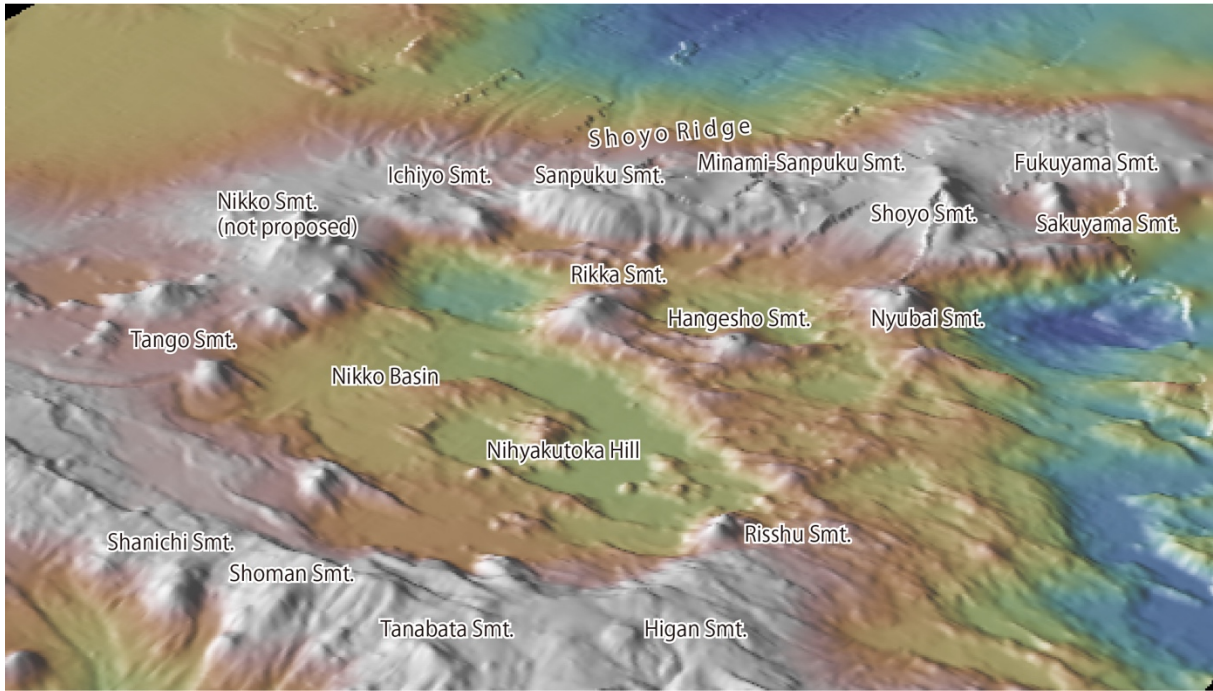


Fig. 4. 3D image of the Fukuyama Seamount and its vicinity.