INTERNATIONAL HYDROGRAPHIC ORGANIZATION

INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION (of UNESCO)

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:	Sakuyama Seamount	Ocean or Sea:	N/A

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:	22°21.32'N	143°07.00'E
	22°20.26'N	143°07.25'E
	22°19.78'N	143°06.24'E
	22°19.64'N	143°04.89'E
	22°20.14'N	143°04.31'E
	22°20.92'N	143°04.01'E
	22°21.87'N	143°04.11'E
	22°22.44'N	143°04.83'E
	22°22.30'N	143°05.85'E
	22°21.32'N	143°07.00'E

Feature Description:	Maximum Depth:	2,644 m	Steepness :	N/A
	Minimum Depth :	1,458 m	Shape :	Conical
	Total Relief :	1,186 m	Dimension/Size :	6 km × 6 km

Associated Features:	East Mariana Ridge, Fukuyama Seamount, Shoyo Seamount

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. Masanori Sakuyama (1952-1984). 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 showed the clear evidence of magma mixing in an island-arc volcano in Japan for the first time (Sakuyama, 1979). He and his colleague Dr. Hiroyuki Fukuyama, along with Fukuyama's nephew were killed in an accident in Iceland on August 10,1984 during their field work. To commemorate his contribution to the community, the Geological Society of Japan established an award to honor young promising scientist, the Sakuyama Masanori Award (http://geosociety2.sakura.ne.jp/en/jgs-awards/explanation-of-the-geological-society-of-japan-awards/sakuyama-masanori-award). To commemorate his work on the genesis of island-arc magma, Dr. Robert J. Stern named this feature Sakuyama Seamount which was approved by ACUF in 1987.

	• Sakuyama, M., Evidence of magma mixing: Petrological study of Shirouma-Oike calc-alkaline andesite volcano, Japan, *Journal of Volcanology and Geothermal Research*, 5, 1979, 179-208. 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: • Bloomer S.H., et al., 1989, Physical volcanology of the submarine Mariana and Volcano arcs, *Bulletin of Volcanology*, 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, Journal of Geophysical Research, 113, B08S14, DOI: 10.1029/2007JB005432. • Naka, J., 1998, An outline of the Shinkai 2000 dive at the Ko-Hiyoshi Seamount, Northern Mariana arc, *JAMSTEC Journal of Deep Sea Research*, 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, *Tectonophysics*, 102, 153-174. "Sakuyama Seamount" was first appeared in Bloomer et al. (1989) and used in the following published papers.

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 Equipement:	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°21.28'N, 143°05.70'E).

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/

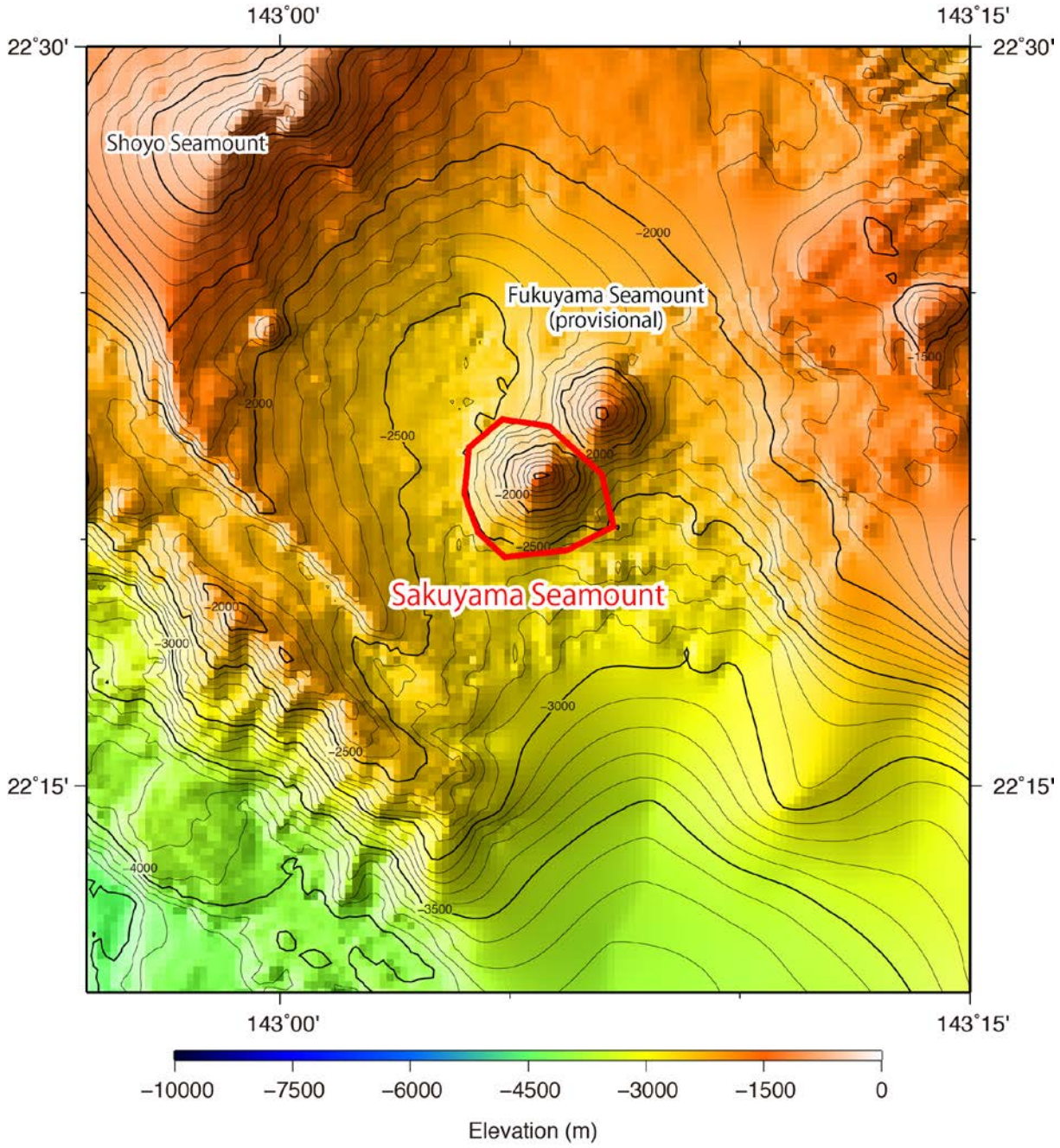

Fig. 1. Bathymetric map of the Sakuyama Seamount. Contours are in 100 m.

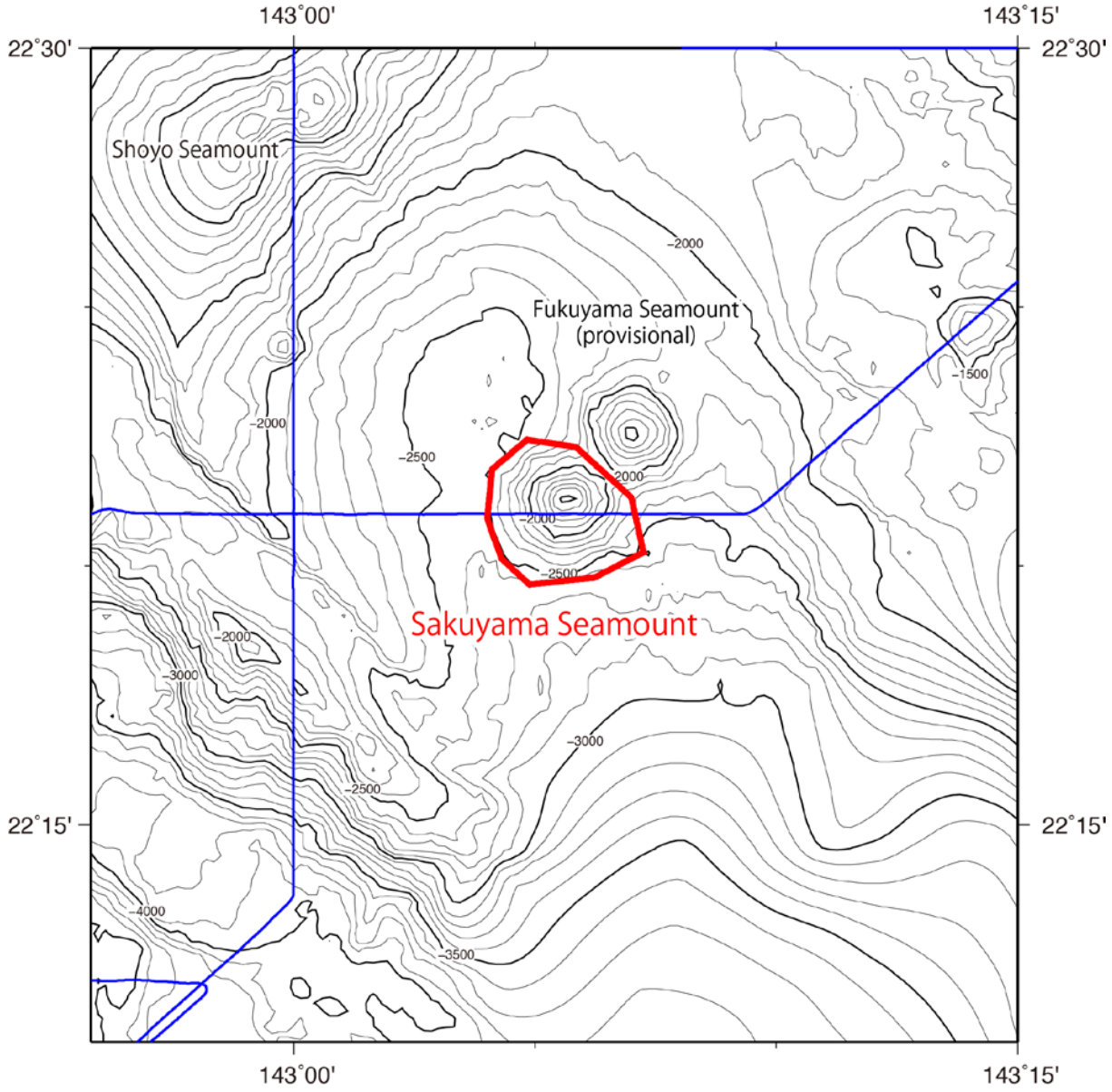

Fig. 2. Bathymetric map of the Sakuyama Seamount, shown with track lines. Contours are in 100 m.

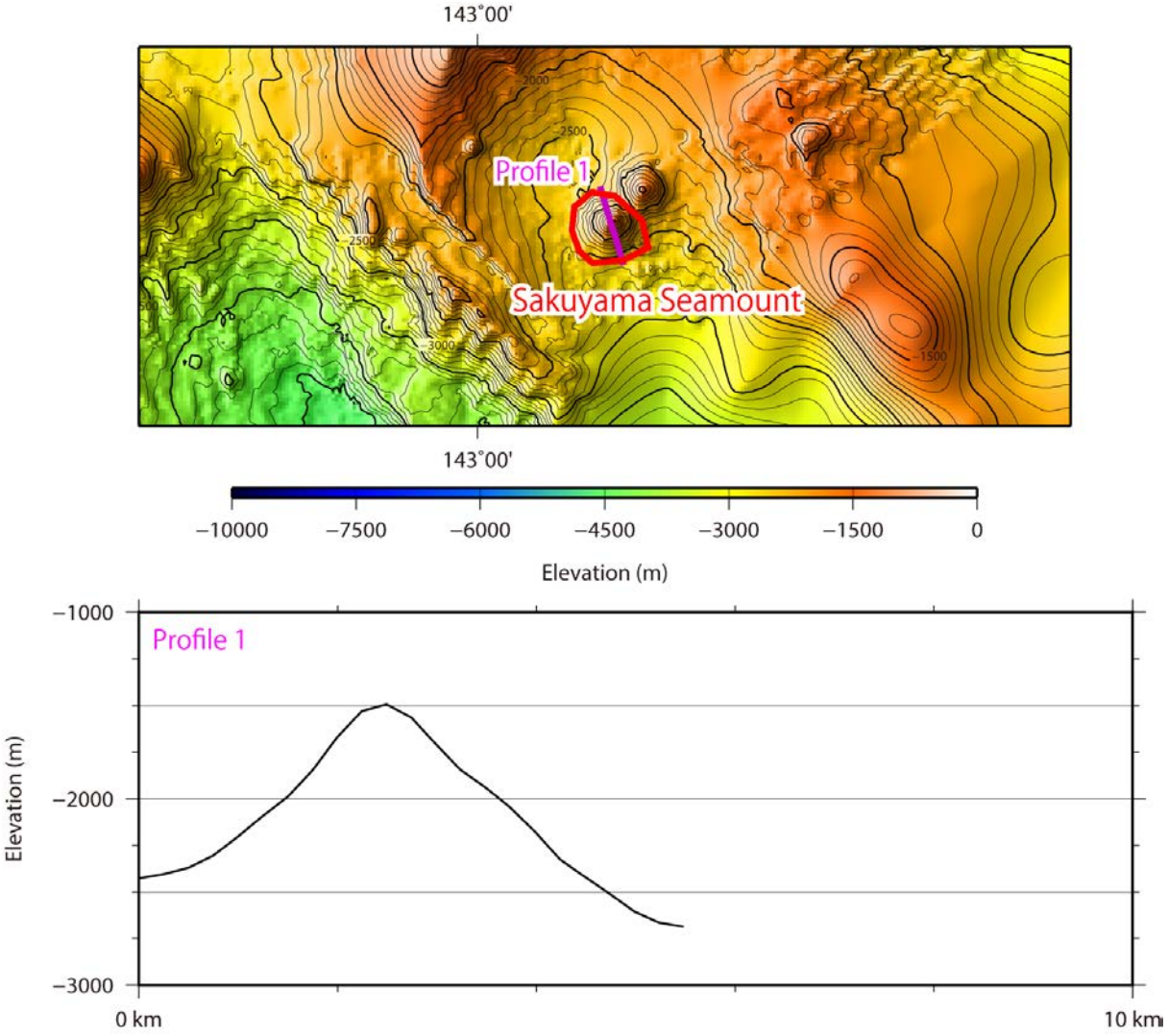

Fig. 3. Bathymetric profile across the Sakuyama Seamount.

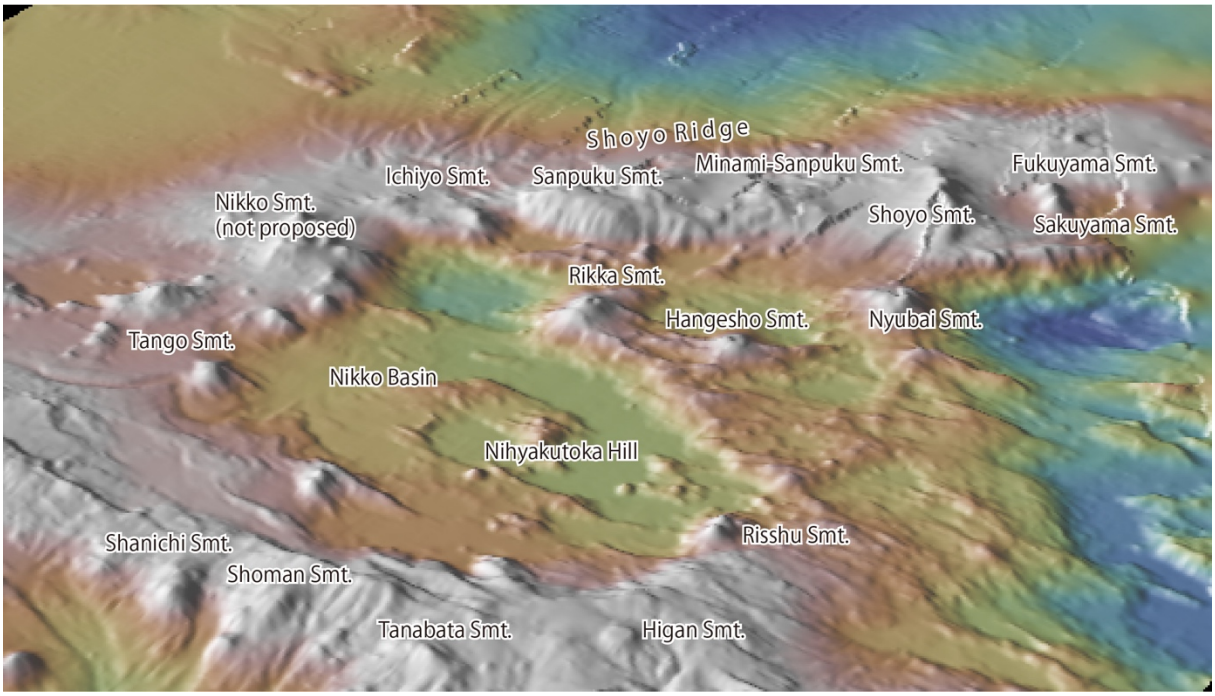

Fig. 4. 3D image of the Sakuyama Seamount and its vicinity.