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.

feature to be named):

	Nihyakutoka I			Ocean o	r Sea:	N/A		
Geometry that best de Point	Line Line	e (Yes/No) Polygon	: Multiple p	oints	Multiple line	es* Mul		Combination of geometries*
		Yes						
* Geometry should be	clearly distingui	ished when	providing the co	oordinate	es below.			
			Lat. (e.g. 63°	32.6′N)		Long.	(e.a. 04	6°21.3′W)
			142°12.9				22°38.1	
			142°13.7			22°37.7	'4'E	
			142°15.1			22°37.9	3'E	
			142°16.32'N				22°37.8	32'E
			142°17.0	N'0		22°37.34′E		
			142°17.1	4'N		22°36.44'E		
			142°17.1	6'N		22°35.09'E		
			142°16.7	'1'N		22°34.23′E		
			142°15.8	19'N		22°33.60'E		
			142°14.7	'8'N		22°33.65'E		
			142°14.07'N			22°33.88'E		
Coordinates:			142°12.7			22°33.02'E		
			142°11.9			22°32.70'E		
			142°11.8			22°32.14'E		
			142°11.26'N			22°31.72′E		
			142°10.81'N			22°32.56'E		
			142°10.76'N			22°33.88'E		
			142°10.95'N			22°34.86′E		
			142°11.58'N			22°36.29'E		
			142°12.24'N			22°36.58'E		
			142°12.37'N			22°37.25'E		
			142°12.53'N			22°37.86'E		
			142°12.9	18'N			22°38.1	5'E
Feature	Maximum	Depth:	3,407 m		Steepne	ess:	N/A	
Description: Minimum De		Depth:	2,580 m Shape:			Irreg	ular	
Description.	Total Relie	f :	827 m		Dimension/Size:		15 k	m × 10 km
Associated Features	:	Maria	na Trough, Nil	kko Bas	sin			
Chart/Map References:		Showi	Shown Named on Map/Chart:			Japanese chart #6723 (to be published in July 26, 2019)		
		Showi	Shown Unnamed on Map/Chart:					
		Within	Within Area of Map/Chart:					
					-			
Reason for Choice of	Name (if a	Name	ed from the sea	son in (early autun	nn called "Nil	nyakuto	ka"in Japan.
person, state how assorteature to be named):	ciated with the		undersea featu					

This feature is located in the northernmost tip of the Mariana Trough, the active backarc spreading center of the Mariana Arc. In fact, this basin is a rift basin within the Mariana Trough. Because of the significance of its tectonic setting, many scientific papers were produced, dealing with the tectonics of the Mariana Trough. Among these, the following papers are noted:

- MarinezF., et al., 1995, Evolution of backarc rifting: Mariana Trough, 20-24N, *Journal of Geophysical Research*, 100, B3, 3807-3827.
- Yamazaki, T. and Murakami, F., 1998, Asymmetric rifting of the northern Mariana Trough, *Island Arc*, 7, 460-470.

Note that the undersea feature names in the Japanese chart #6723 largely consists of two major categories. One is relevant to season names or seasonal/annual event in Japan, and the other is to discovering ship (all are fishery boats except one). The names belonging to the former category were mostly accredited by JCUFN in 1994.

Diagovary Footo	Discovery Date:	Apr. 1993		
DISCOVERY FACTS:	Discoverer (Individual, Ship):	Japanese survey vessel "Takuyo"		

	Date of Survey:	Apr. and Aug Sep. 1993		
Supporting Survey Data, including		Dec. 2005		
	Survey Ship:	Japanese survey vessel "Shoyo" and		
		"Takuyo"		
	Sounding Equipement:	Multibeam echo sounder		
		Seabeam 2112 (2005)		
		Seabeam (1993)		
Track Controls:	Type of Navigation:	GPS without Selective Availability		
		(2005)		
		GPS with Selective Availability (1993)		
	Estimated Horizontal Accuracy, in	0.014 nm (26 m) (2005)		
	nautical miles (M):	0.054 nm (100 m) (1993)		
	Survey Track Spacing:	1.5 nm		
	Supporting material can be submitted as Annex in analog or digital form.			

	Name(s):	JCUFN	
	Date:	June 4, 2019	
	E-mail:	ico@jodc.go.jp	
	Organization and Address:	Hydrographic and Oceanographic	
Proposer(s):		Department, Japan Coast Guard	
		Kasumigaseki 3-1-1, Chiyoda-ku,	
		Tokyo 100-8932, Japan	
	Concurrer (name, e-mail, organization and address):		
	anu auuress).		

	The position of the summit is located in (22°36.25'N, 142°14.31'E).
Remarks:	
<u>:</u>	

NOTE: This form should be forwarded, when completed:

a) If the undersea feature is located <u>inside the external limit</u> 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 <u>outside the external limits</u> 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

<u>France</u>

Fax: +33 1 45 68 58 12 E-mail: info@unesco.org Web: http://ioc-unesco.org/

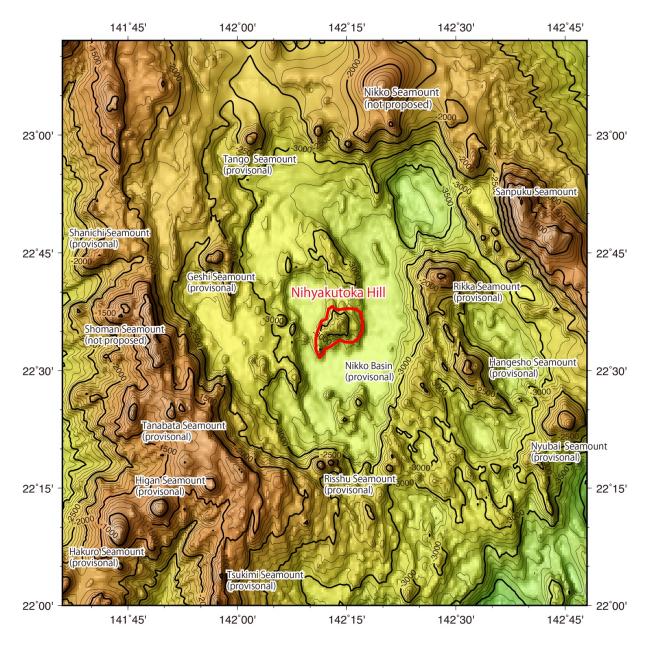


Fig. 1. Bathymetric map of the Nihyakutoka Hill. Contours are in 100 m.

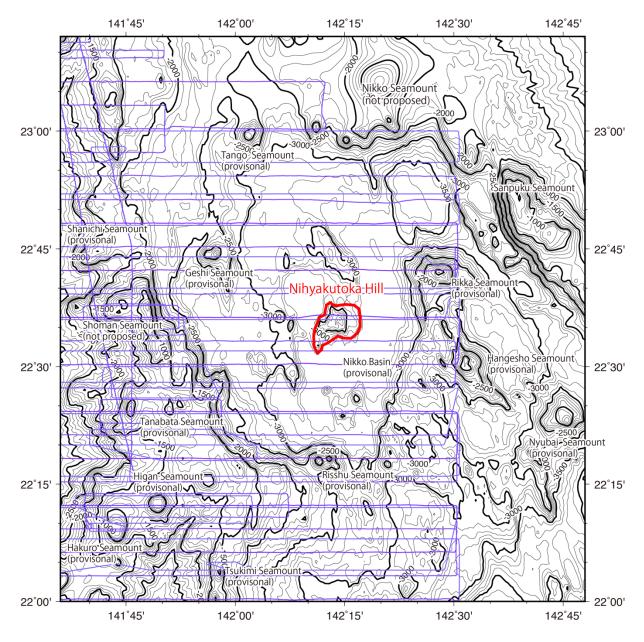


Fig. 2. Bathymetric map of the Nihyakutoka Hill, shown with track lines. Contours are in 100 m.

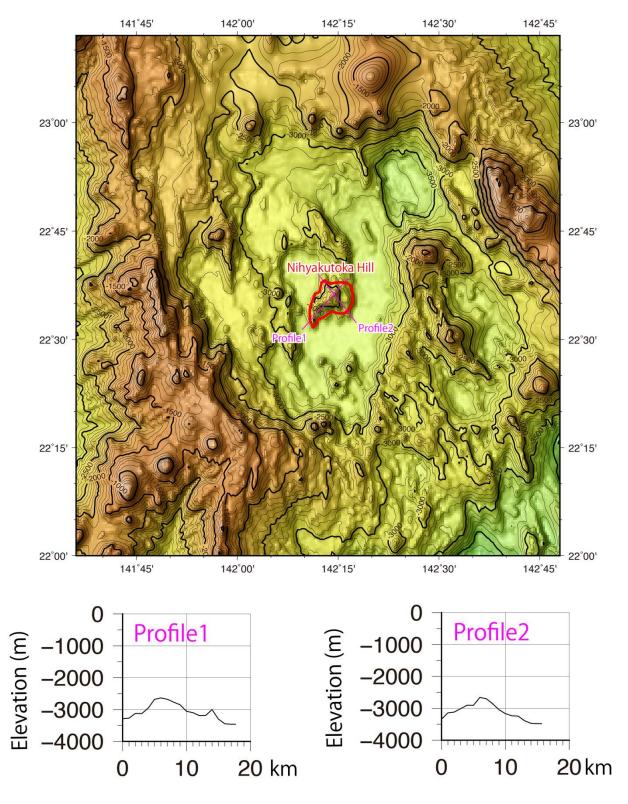


Fig. 3. Bathymetric profile across the Nihyakutoka Hill.

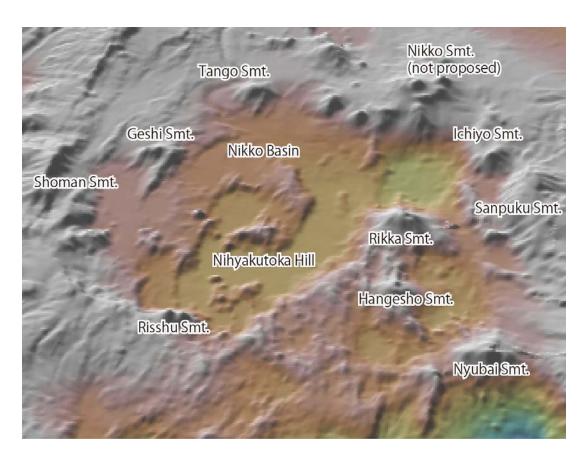


Fig. 4. 3D image of the Nihyakutoka Hill and its vicinity.