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 e	xpand as you fill t	he form.						
Name Proposed:		Ocean	Ocean or Sea:		Philippine Sea			
Geometry that best de		>		T				
Point	Line	Polygon	Multiple points	Multiple lines*		Multiple polygons*		Combination of geometries*
Yes	Yes	Yes						
* Geometry should be	clearly distinguis	hed when pro	viding the coordina	ates below.				
		L	at. (e.g. 63°32.6'N	۷)		Long. (e.	g. 046	6°21.3'W)
Coordinates:		18° 9.37'N 18° 17.14'N 18° 24.34'N 18° 36.49'N 18° 41.01'N 18° 49.3'N 18° 33.5'N 18° 24.03'N 18° 17.75'N 17° 37.15'N 17° 24.7'N 17° 14.71'N 17° 6.48'N 17° 0.24'N	17° 40.11'N (bounds) 18° 9.37'N 18° 17.14'N 18° 24.34'N 18° 36.49'N 18° 49.15'N 18° 49.3'N 18° 33.5'N 18° 37.15'N 17° 37.15'N 17° 14.71'N 17° 6.48'N		126° 37.7'E (summit) 125° 15.54'E (bounds) 125° 52.31'E 126° 2.61'E 126° 3.28'E 126° 32.71'E 126° 57.1'E 126° 7.29'E 126° 54.79'E 126° 33.43'E 126° 12.59'E 126° 34.62'E 126° 4.0'E 125° 15.54'E (bounds)			
	Maximum D	enth:	-5,544.87 m	Steen	ness:			
Feature	· · · · · · · · · · · · · · · · · · ·	Minimum Depth:			Shape:		Spear Shape	
Description:	Total Relief:		4,365.66 m	Dimension/Size :		Size :	202,003.54m x 206,983.35m	
A		Dhilinnin	Diag (Daglage)	Dia - \	- 0-4-			
Associated Feature	S:	Philippine	Rise (Benham I	Rise), mari	a Sauc	ile		
Chart/Map References:		Shown Named on Map/Chart:			Chart 4726A			
		Shown Unnamed on Map/Chart:						
		Within Area of Map/Chart:			Cha	Chart 4726A		
Reason for Choice of Name (if a person, state how associated with the feature to be named):		Narra is the national tree of the Philippines. The Narra tree is a symbol of many things. It is tall and symbolizes the lofty ideals of the Filipino people. It is tall, strong, enduring and signify the persistence of the Filipinos in their demand for freedom. While other trees are bent or uprooted by storms, the narra usually withstands such disaster. It may strip its leaves or break off smaller branches, but the tree itself remains upright. As the Narra has resisted the tempest, so has the Filipinos fought his oppressors. The feature was first named in the Philippine submission of an extended						

	continental shelf in the Philippine Rise (Benham Rise) Region.						
Discovery Facts:	Discovery Date:	July 3, 2010					
	Discoverer (Individual, Ship):	NAMRIA					
	Date of Survey:	March 19-20,29, 2008; April 11-13, 2008; May 3-6, 2008; June 8-18, 2008; September 3-7, 2008; July 1-3, 2009; June 24-28, 2010; July 3, 2010					
Supporting Survey Data, including	Survey Ship:	BRP HYDROGRAPHER PRESBITERO					
Track Controls:	Sounding Equipment:	Seabeam 2112					
	Type of Navigation:	GPS with IMU					
	Estimated Horizontal Accuracy, in nautical miles (nm):	0.027 nm (50 m)					
	Survey Track Spacing:	5 nm					
	Supporting material can be submitted as Annex in analog or digital form.						
	Name (a)	LIANA DETERNI TIANOCO DER					
	Name(s):	Usec. PETER N. TIANGCO, PhD August 2018					
	E-mail:	pntiangco@namria.gov.ph					
	Organization and Address:	National Mapping and Resource Information Authority (NAMRIA) Lawton Avenue, Fort Andres Bonifacio Taguig City, Philippines 1634					
Proposer(s):	Concurrer (name, e-mail, organization and address):	Department of Foreign Affairs (DFA), Roxas Boulevard, Pasay City, Philippines 1300 moao.div2@dfa.gov.ph					
		Department of National Defense (DND), Camp Emilio Aguinaldo, Quezon City, Philippines 1110					
Remarks:	The proposal was prepared by the Technical Working Group on Undersea Feature Names of the Hydrography Branch of NAMRIA, in cooperation with the National Institute of Geological Sciences – University of the Philippines and Mines and Geosciences Bureau.						

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 :

Intergovernmental Oceanographic Commission (IOC) International Hydrographic Organization (IHO) 4b. Quai Antoine 1er UNESCO Place de Fontenoy B.P. 445 MC 98011 MONACO CEDEX 75700 PARIS Principality of MONACO France Fax: +377 93 10 81 40 Fax: +33 1 45 68 58 12 E-mail: info@iho.int E-mail: info@unesco.org Web: www.iho.int Web: http://ioc-unesco.org/

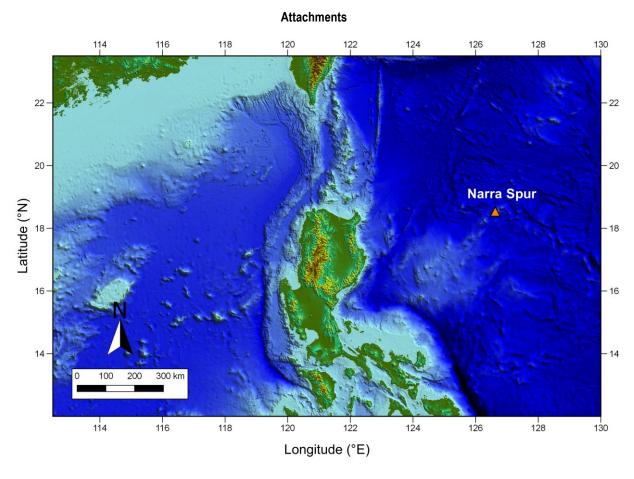


Fig. 1. Index map showing the location of Narra Spur.

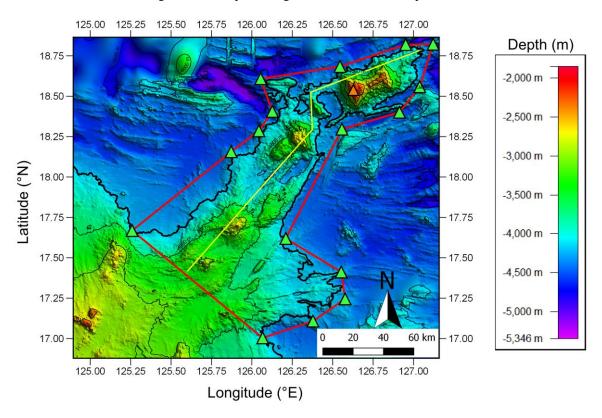


Fig. 2. Bathymetric map of the Narra Spur. Contour interval is 800 meters. Yellow line showing the connection of spur to a bigger area, the Benham Rise region.

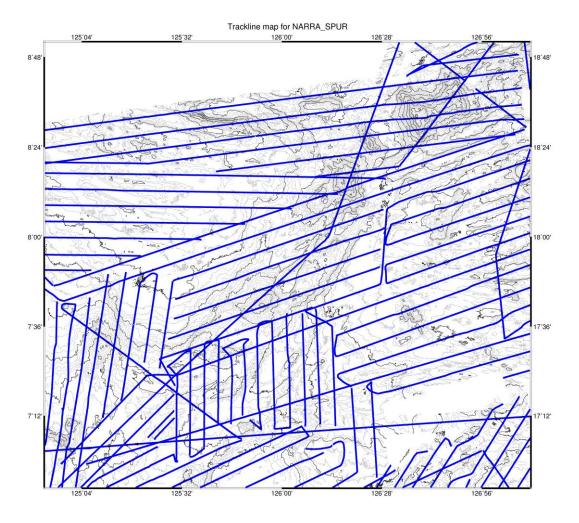


Fig 3. Bathymetric map of Narra Spur showing track lines.

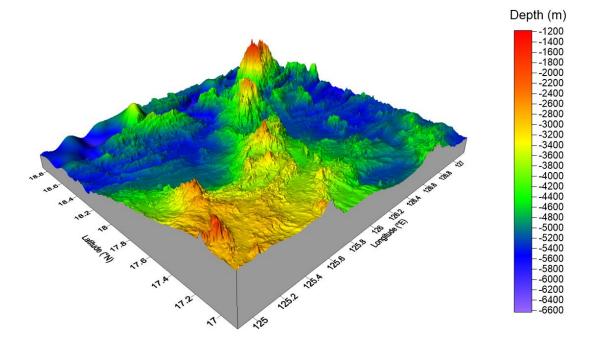


Figure 4. 3D bathymetric map of the Narra Spur. View looking northeast.

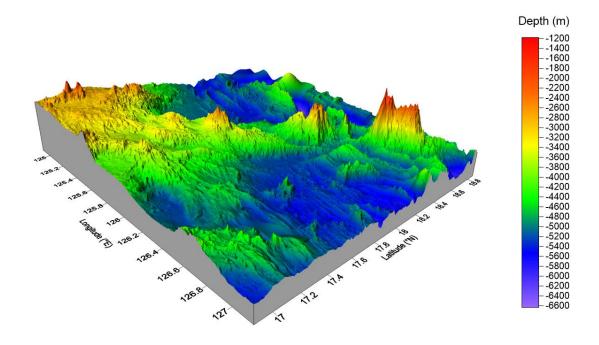


Figure 5. 3D bathymetric map of the Narra Spur. View looking northwest.

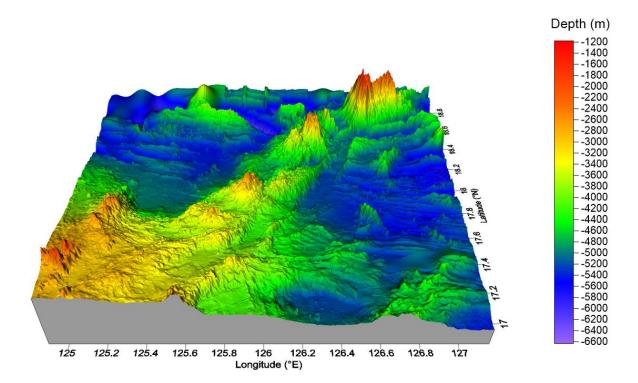


Figure 6. 3D bathymetric map of the Narra Spur, view looking north.

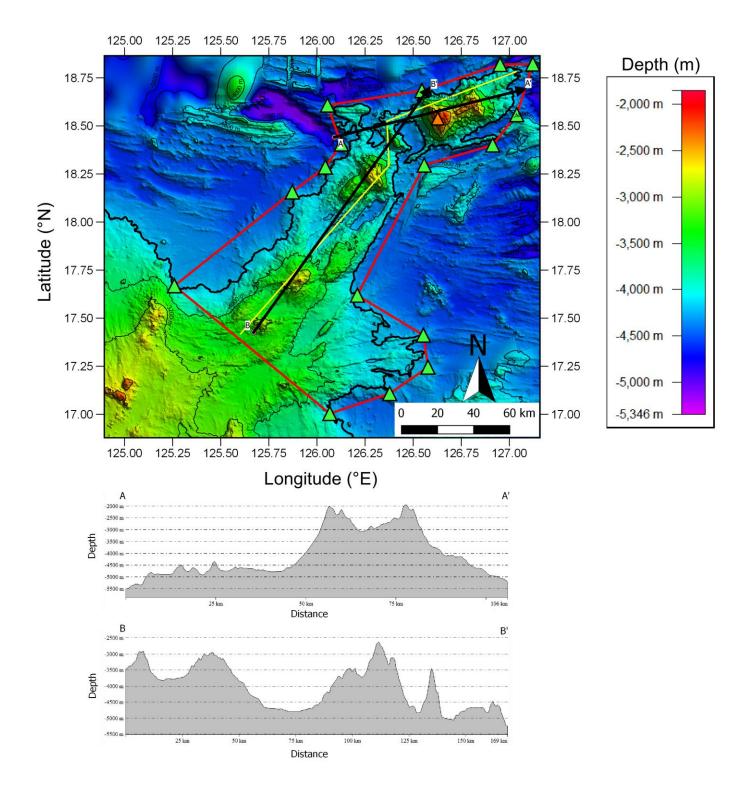


Figure 7. Profiles of Narra Spur from the southwest to northeast edge (A-A') and southwest edge to northeast edge (B-B').