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:	Lubang Hills	**Ocean or Sea:**	West Philippines Sea

Geometry that best defines the feature (Yes/No) :

Point	Line	Polygon	Multiple points	Multiple lines*	Multiple polygons*	Combination of geometries*
Yes		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:	13°41'N (summit) 13°39.8'N (bottom) 13°39.9'N 13°41.5'N 13°42.3'N 13°42.2'N 13°42.4'N 13°43.7'N 13°43.7'N 13°43.4'N 13°42.4'N 13°41.2'N 13°39.8'N (bottom)	119°3.8'E (summit) 119°4.4'E (bottom) 119°2.3'E 119°2.3'E 119°2.5'E 119°3.1'E 119°3.6'E 119°5.4'E 119°6.4'E 119°7'E 119°7.3'E 119°6.3'E 119°4.4'E (bottom)

Feature Description:	Maximum Depth:	4,085.9 m	Steepness:	6˚
	Minimum Depth:	3,496.9m	Shape:	Arrowhead shape
	Total Relief:	589 m	Dimension/Size:	9,018.5m x 7,171.3 m

Associated Features:	West Philippine Sea & Lubang Island, Philippines

Chart/Map References:	Shown Named on Map/Chart:	
	Shown Unnamed on Map/Chart:	Chart 4723A
	Within Area of Map/Chart:	Chart 4723A

Reason for Choice of Name (if a person, state how associated with the feature to be named)**:**	*Lubang* is a group of islands on the western end of Verde Island Passage, dubbed as the center of the world's marine biodiversity.

Discovery Facts:	Discovery Date:	March 25, 2001
	Discoverer (Individual, Ship):	NAMRIA

Supporting Survey Data, including Track Controls:	Date of Survey:	April 19, 1999; January 24, 1999; February 23, 1999; March 21 &25 2001
	Survey Ship:	BRP HYDROGRAPHER PRESBITERO &BRP HYDROGRAPHER VENTURA

	Sounding Equipement:	Seabeam 2112
	Type of Navigation:	GPS with IMU
	Estimated Horizontal Accuracy, in nautical miles (nm):	0.027 nm (50m)
	Survey Track Spacing:	0.81nm
	Supporting material can be submitted as Annex in analog or digital form.	

Proposer(s):	Name(s):	Usec. PETER N. TIANGCO, PhD
	Date :	June 2019
	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
	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 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/

Attachments

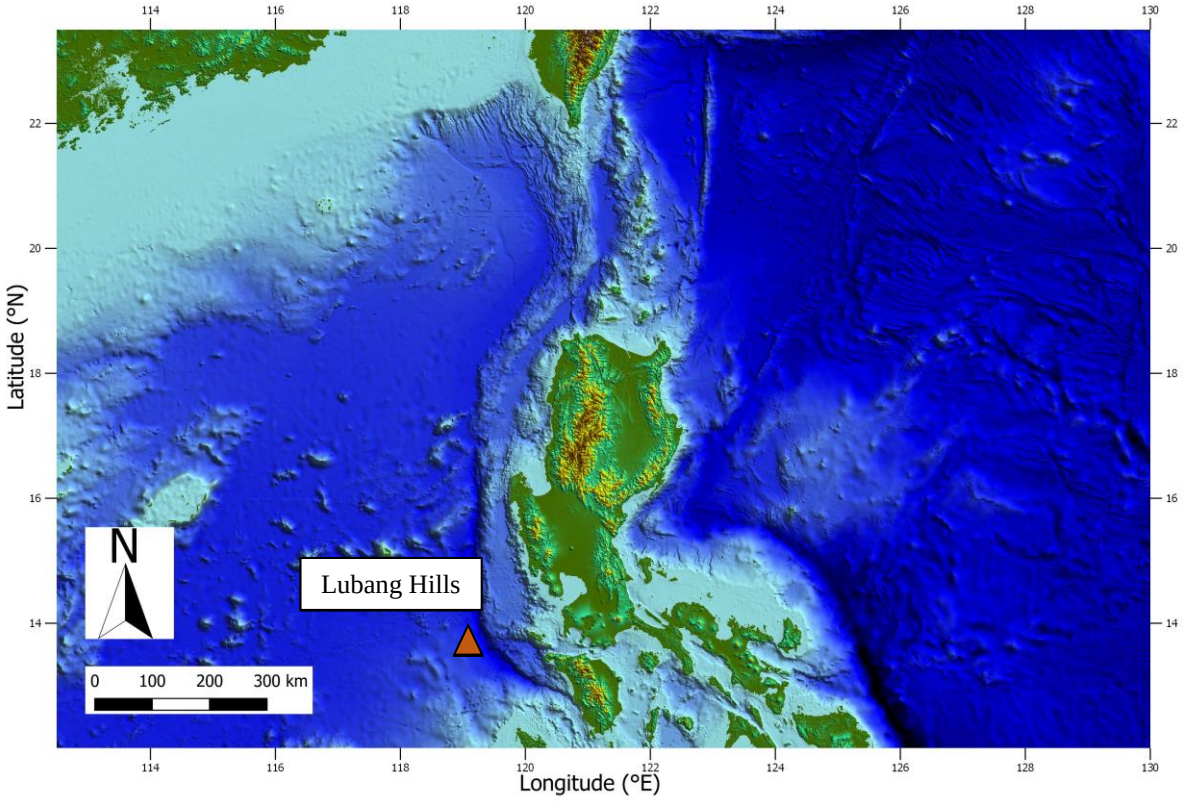

Figure 1. Index map showing the location of Lubang Hills.

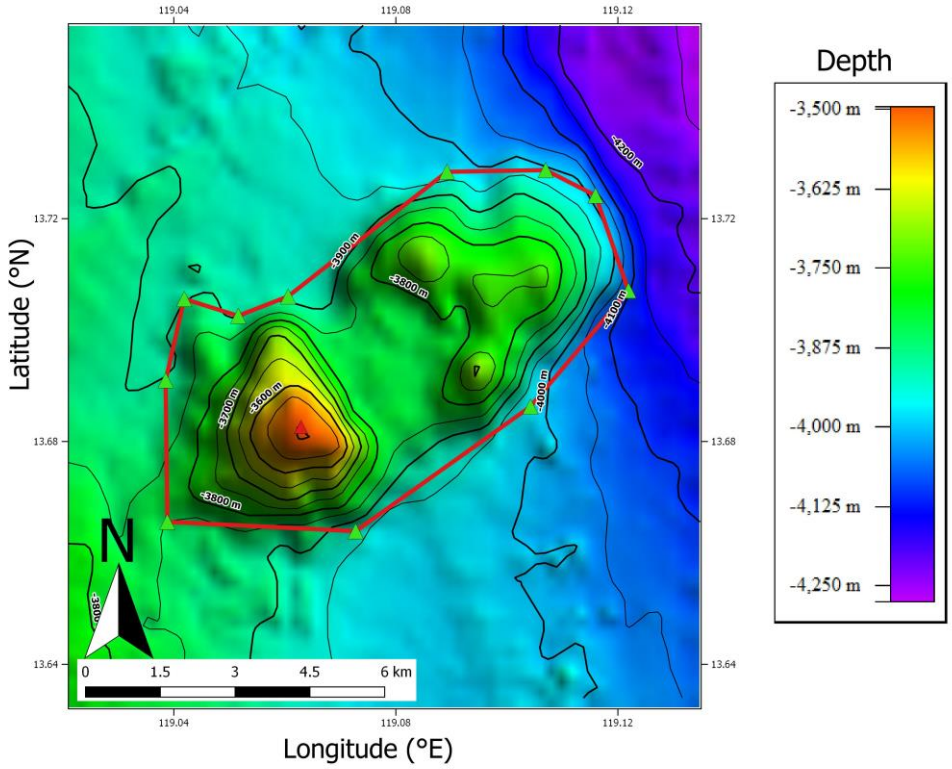

Figure 2. Bathymetric map of Lubang Hills. Contour interval is 100 meters.

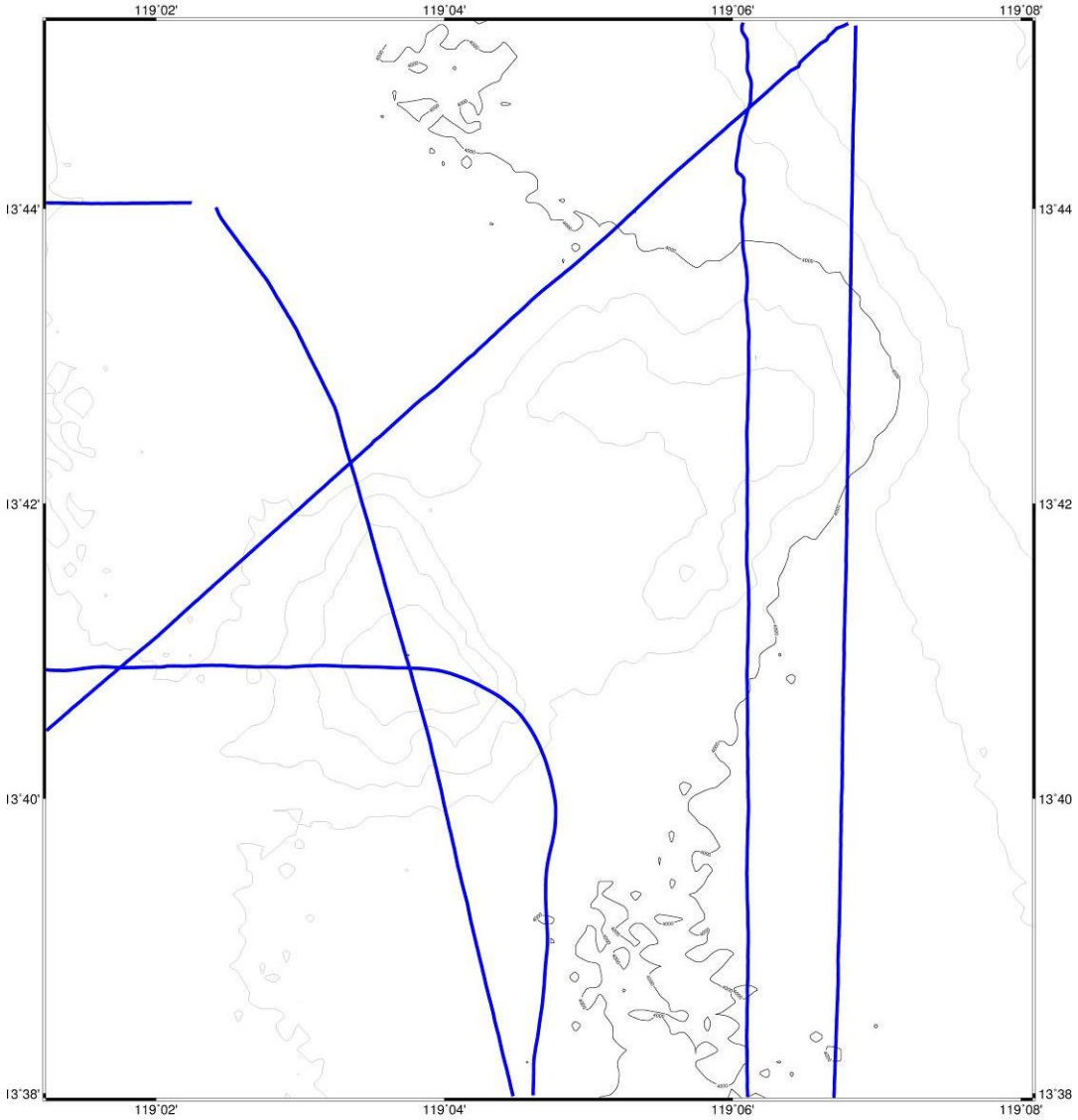

Figure 3. Bathymetric map of Lubang Hills showing track lines.

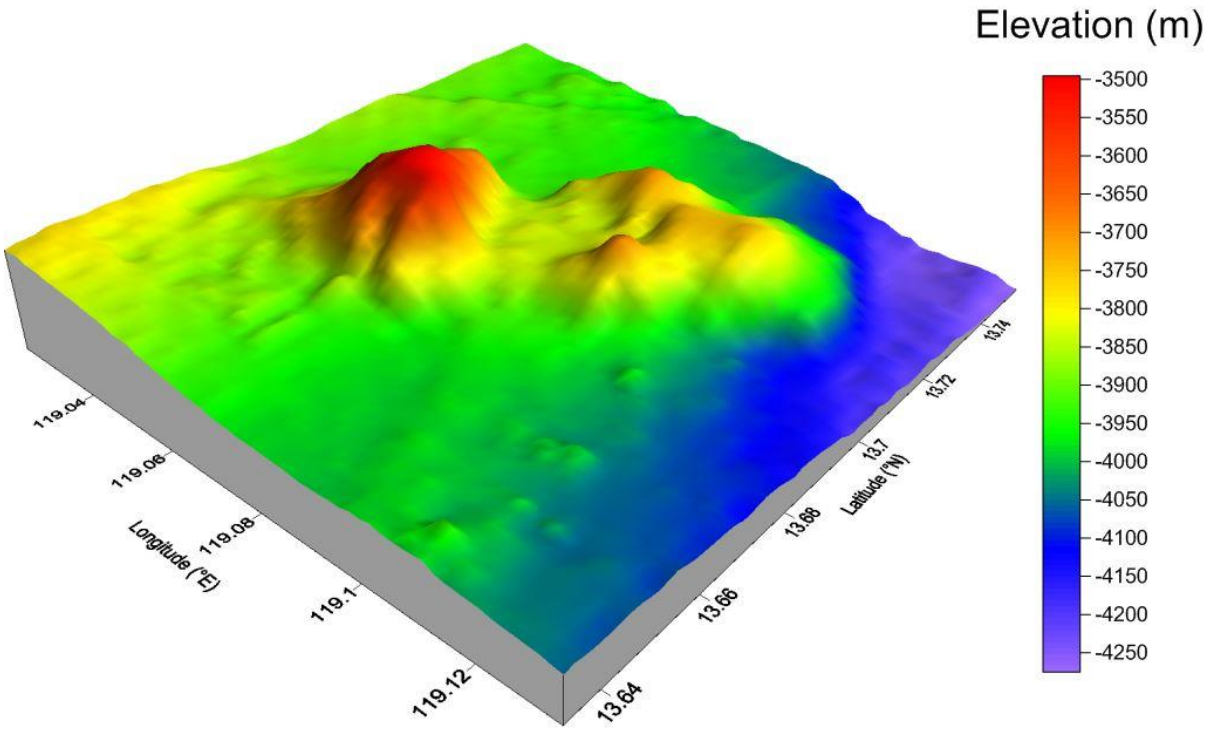

Figure 5. 3D bathymetric map of the Lubang Hills. View looking northwest.

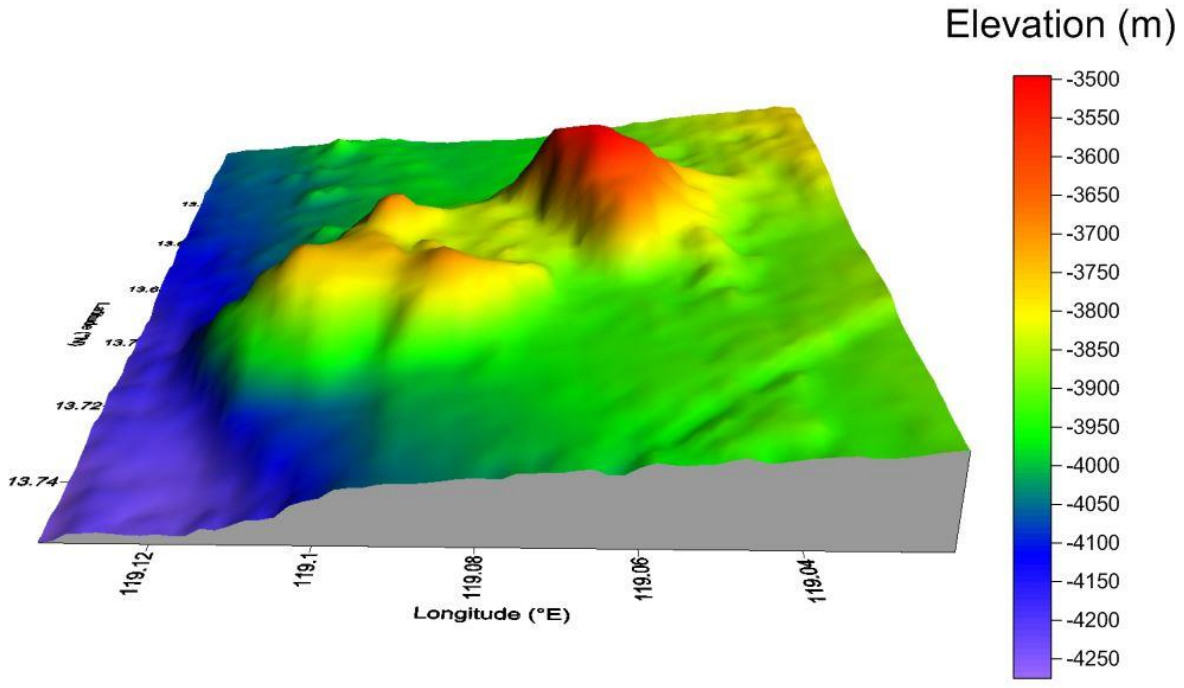

Figure 6. 3D bathymetric map of the Lubang Hills. View looking south.

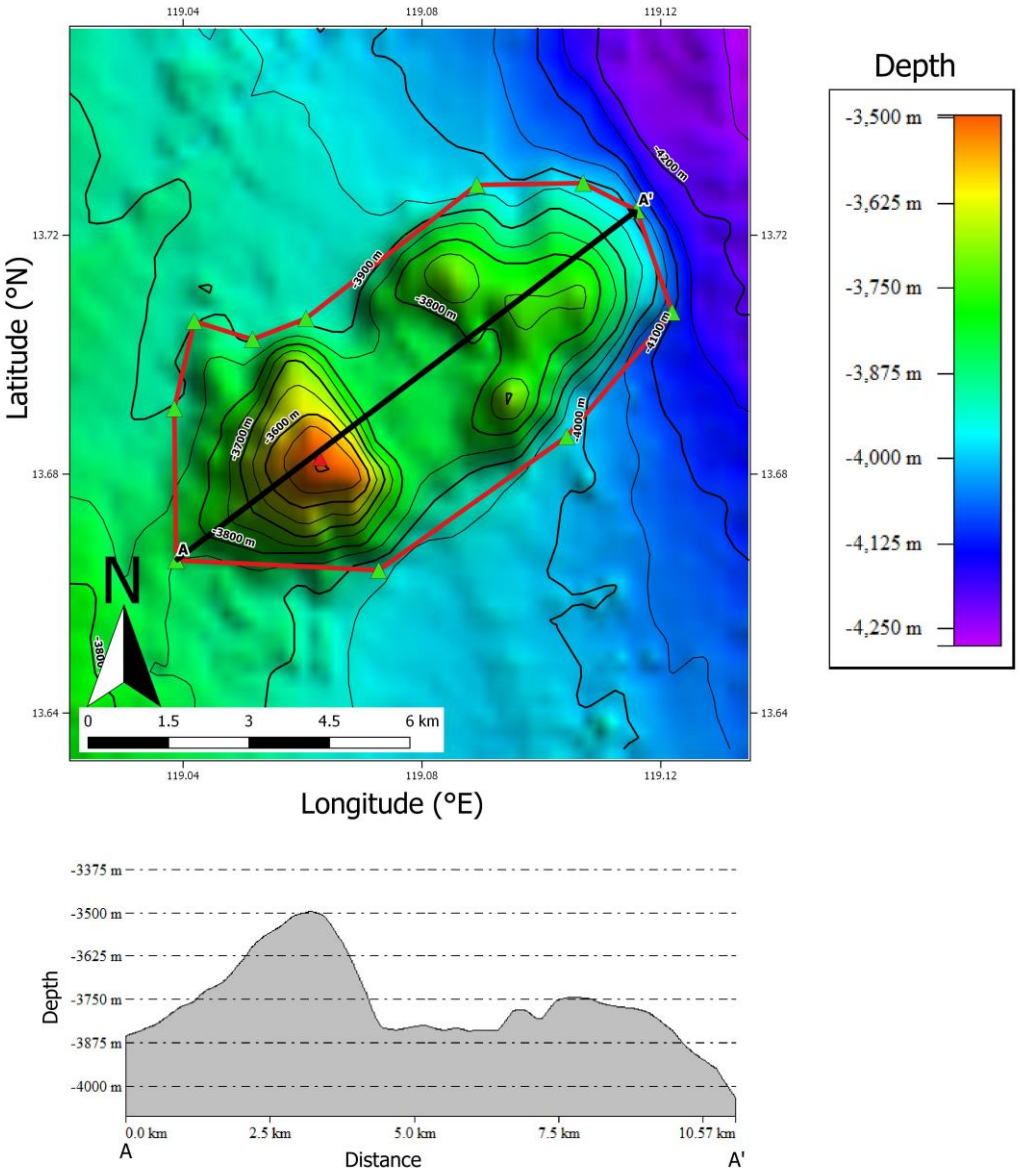

Figure 7. Profile view of Lubang Hills from A to A'.