

UNDERSEA FEATURE NAME PROPOSAL

(Sea NOTE overleaf)

Note: The boxes will expand as you fill the form.

Name Proposed:	Cheomseongdae Hill	Ocean or Sea:	Southern Ocean
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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		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)
Point Coordinates:	68°51.95'S	176°47.28'E
Polygon Coordinates:	68°51.61'S	176°46.68'E
	68°52.09'S	176°49.15'E
	68°52.30'S	176°48.00'E
	68°52.26'S	176°47.24'E
	68°52.12'S	176°46.80'E

Feature Description:	Maximum Depth:	3,400 m	Steepness :	15 ~ 25 °
	Minimum Depth :	3,190 m	Shape :	Elliptical
	Total Relief :	210 m	Dimension/Size :	1,700m x 900m

Associated Features:	
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Chart/Map References:	Shown Named on Map/Chart:	
	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):	Cheomseongdae is an astronomical observatory in Gyeongju, Republic of Korea. The name means <i>star-gazing tower</i> in Korean. Cheomseongdae is the oldest surviving observatory in the world. It dates to the 7th Century, C.E., to the time of Kingdom of Silla, whose capital was Seorabeol, or present-day Gyeongju. Cheomseongdae was designated as a National Treasure in 1962. The shape of the hill is similar to that of Cheomseongdae in Korea.
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Discovery Facts:	Discovery Date:	2014-03-19
	Discoverer (Individual, Ship):	Icebreaker RV ARAON

Supporting Survey Data, including Track Controls:	Date of Survey:	2014-03-19
	Survey Ship:	Icebreaker RV ARAON
	Sounding Equipment:	EM122
	Type of Navigation:	Seapath 200 RTK
	Estimated Horizontal Accuracy (nm):	5 m*
	Survey Track Spacing:	None

Supporting material can be submitted as Annex in analog or digital form.

*Vertical and horizontal accuracy based on RMS accuracy of sonar systems, and after estimates in Dowdeswell et al. (2010).

Proposer(s):	Name(s):	Korea Committee on Geographical Names (KCGN), Republic of Korea
	Date:	July 7, 2016
	E-mail:	infokhoa@korea.kr
	Organization and Address:	351, Haeyang-ro, Yeongdo-gu, Busan, Republic of Korea
	Concurrer (name, e-mail, organization and address):	

Remarks:

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 page 2-9) or, if this does not exist or is not known, either to the IHB 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 IHB or to the IOC, at the following addresses:

International Hydrographic Bureau (IHB) 4, Quai Antoine 1er B.P. 445 MC 98011 MONACO CEDEX <u>Principality of MONACO</u> Fax: +377 93 10 81 40 E-mail: info@ihb.mc	Intergovernmental Oceanographic Commission (IOC) UNESCO Place de Fontenoy 75700 PARIS France Fax: +33 1 45 68 58 12 E-mail: info@unesco.org
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Cheomseongdae Hill

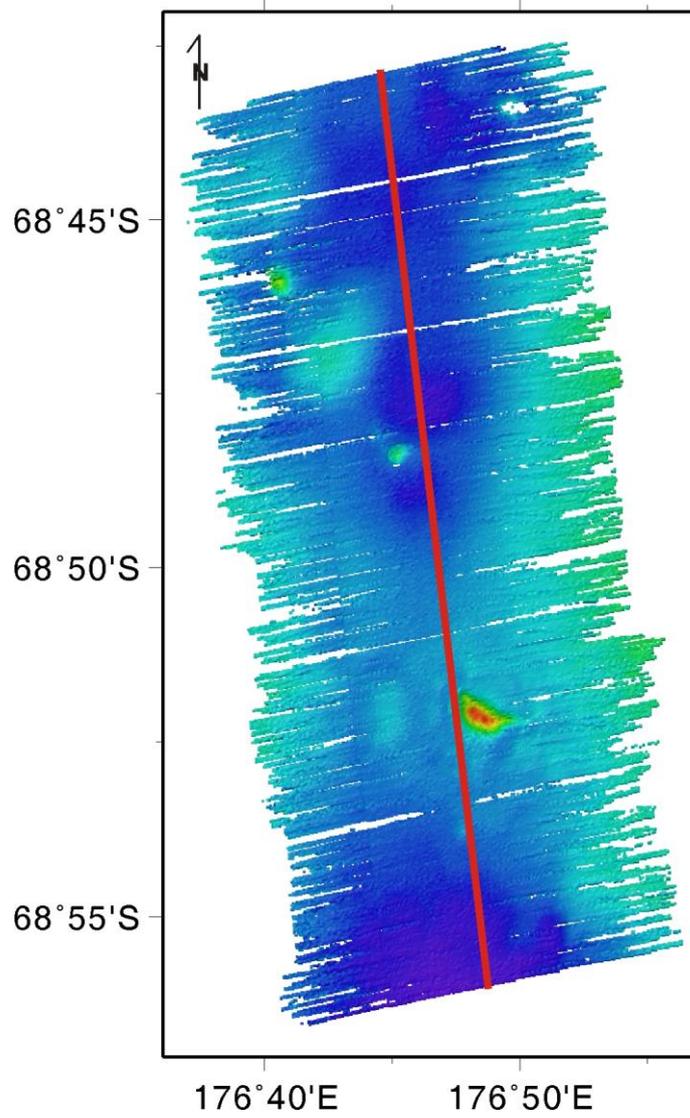


Fig.1. Track line and swath in survey area.

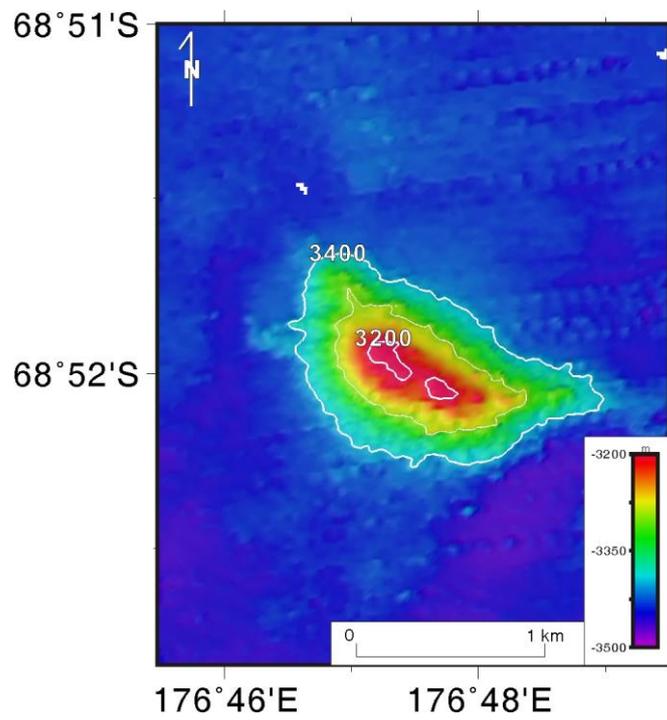


Fig.2. 2-D Bathymetric contour map of Cheomseongdae Hill

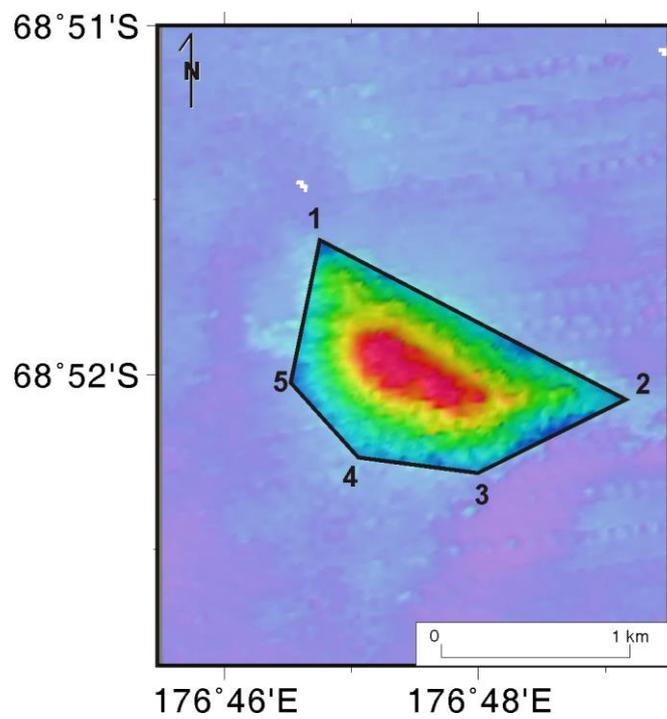


Fig.3. Polygon boundary of Cheomseongdae Hill

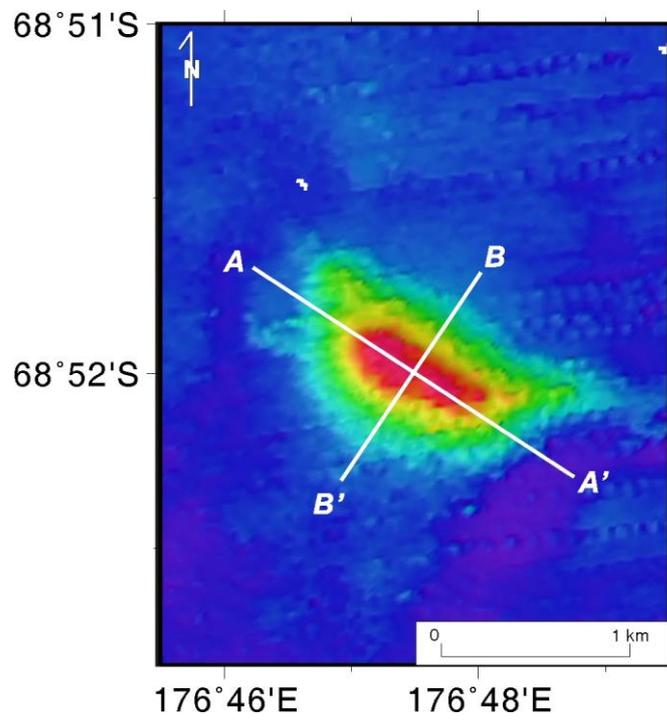


Fig.4. Locations of profiles across Cheomseongdae Hill

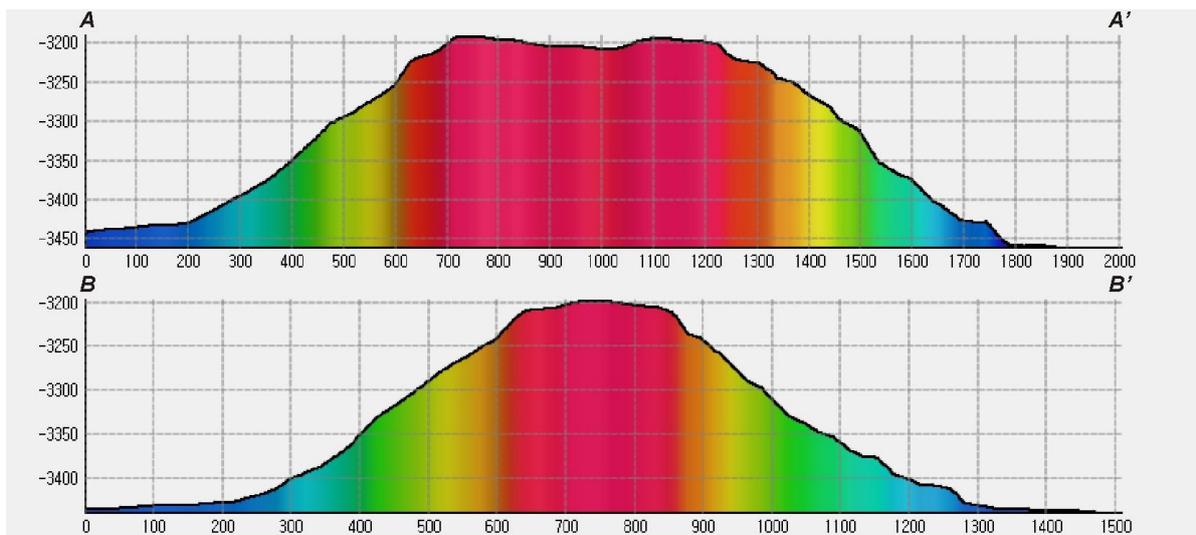


Fig.4a. Profiles across Cheomseongdae Hill

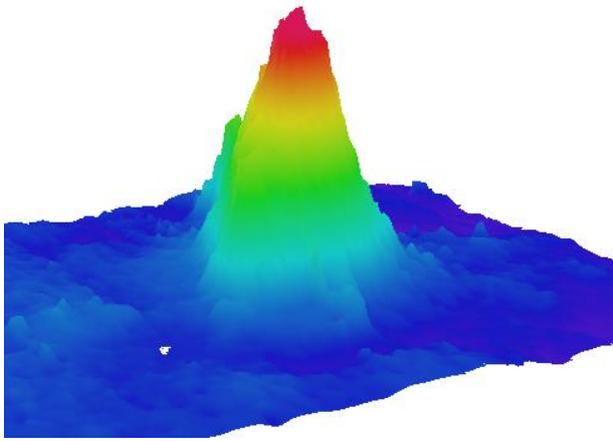


Fig.5. Side view of Cheomseongdae Hill



**Fig.6. Cheomseongdae
(Korean Historical Astronomical Observatory)**