

UNDERSEA FEATURE NAME PROPOSAL
(Sea NOTE overleaf)

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

Name Proposed:	Shinkai Deep	Ocean or Sea:	Philippine Sea, Northwestern Pacific
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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				

* Geometry should be clearly distinguished when providing the coordinates below.

Coordinates:	Lat. (e.g. 63°32.6'N)	Long. (e.g. 046°21.3'W)
	12°38'N	138°49'E
	12°50'N	138°52'E
	13°06'N	139°02'E
	13°06'N	139°06'E
	12°48'N	139°04'E
	12°26'N	138°50'E
	12°38'N	138°49'E

Feature Description:	Maximum Depth :	7150 m	Steepness :	
	Minimum Depth :	3850 m	Shape :	Rhombic shape
	Total Relief :	3300 m	Dimension/Size :	

Associated Features:	Parece Vela Basin and North Yap Escarpment (an informal name)
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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):	This deep was discovered during the YK03-09-Leg 2 cruise of R/V Yokosuka. During the cruise, two dives of the submersible Shinkai 6500 (dives #799 & #800) investigated the feature for the first time. The dives recovered mantle peridotites and gabbros, indicating that the feature is geologically a rift basin within the Parece Vela Basin. Geologically, this feature also represents a "tectonic window", an important setting to study Earth's lithosphere. Because of this important discovery by the submersible, the feature is named after the submersible.
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Discovery Facts:	Discovery Date:	November 7 and 8, 2003
	Discoverer (Individual, Ship):	Submersible Shinkai 6500 & R/V Yokosuka

Supporting Survey Data, including Track Controls:	Date of Survey:	November 6 to 11, 2003
	Survey Ship:	R/V Yokosuka
	Sounding Equipment:	SeaBeam 2112
	Type of Navigation:	GPS without Selective Availability
	Estimated Horizontal Accuracy (nm):	0.014 nm
	Survey Track Spacing:	See Figs. 1 and 3
	Supporting material can be submitted as Annex in analog or digital form.	

Proposer(s):	Name(s):	Yasuhiko Ohara and Kantaro Fujioka
	Date:	June 6, 2011
	E-mail:	ohara@jodc.go.jp
	Organization and Address:	Japan Agency for Marine-Earth Science and Technology
	Concurrer (name, e-mail, organization and address):	Jonathan E. Snow University of Houston Houston, TX 77204, USA E-mail: jesnow@uh.edu

Remarks:	Reference cited in Fig. 1: Fujiwara, T., Tamura, C., Nishizawa, A., Fujioka, K., Kobayashi, K., Iwabuchi, Y., 2000, Morphology and tectonics of the Yap Trench, Marine Geophysical Researches, 21, 69–86.
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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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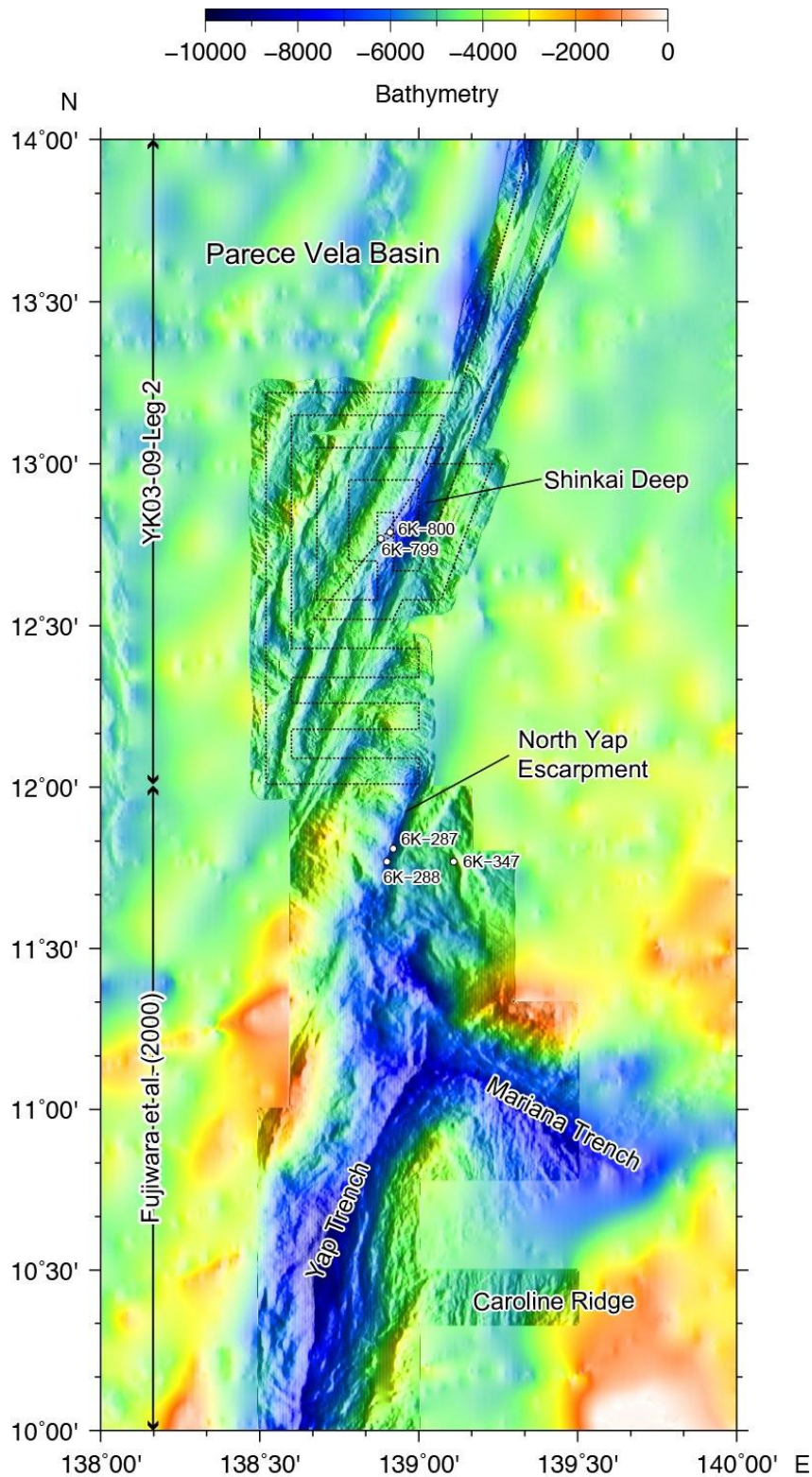


Fig 1. Index map showing the location of the Shinkai Deep. The Shinkai Deep is located within the Pareec Vela Basin. It is also associated with the North Yap Escarpment, Yap Trench and Mariana Trench. The data used to make this map are from YK03-09-Leg 2 cruise, Fujiwara et al. (2000), and GEBCO 08 gridded data. Thin dotted line is the track of YK03-09-Leg 2 cruise. The dive sites of the Shinkai 6500 (6K-799 and 6K-800) at the Shinkai Deep are shown. 6K-287, 6K-288 and 6K-347 are the dive sites relevant to the North Yap Escarpment.

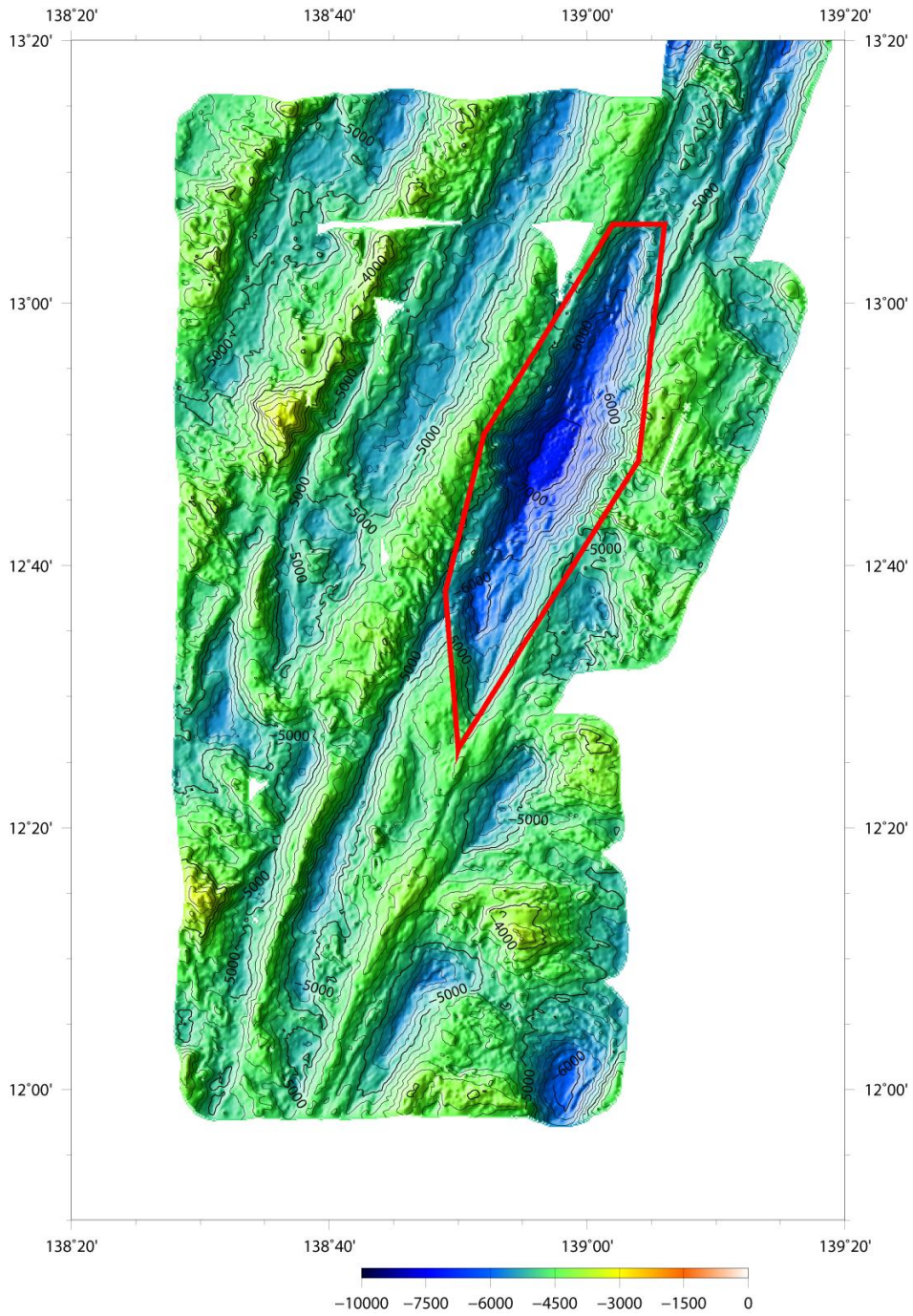


Fig 2. Color shaded bathymetric map of the Shinkai Deep. Contours are in 200 m. The polygon delineating the feature is shown in red line.

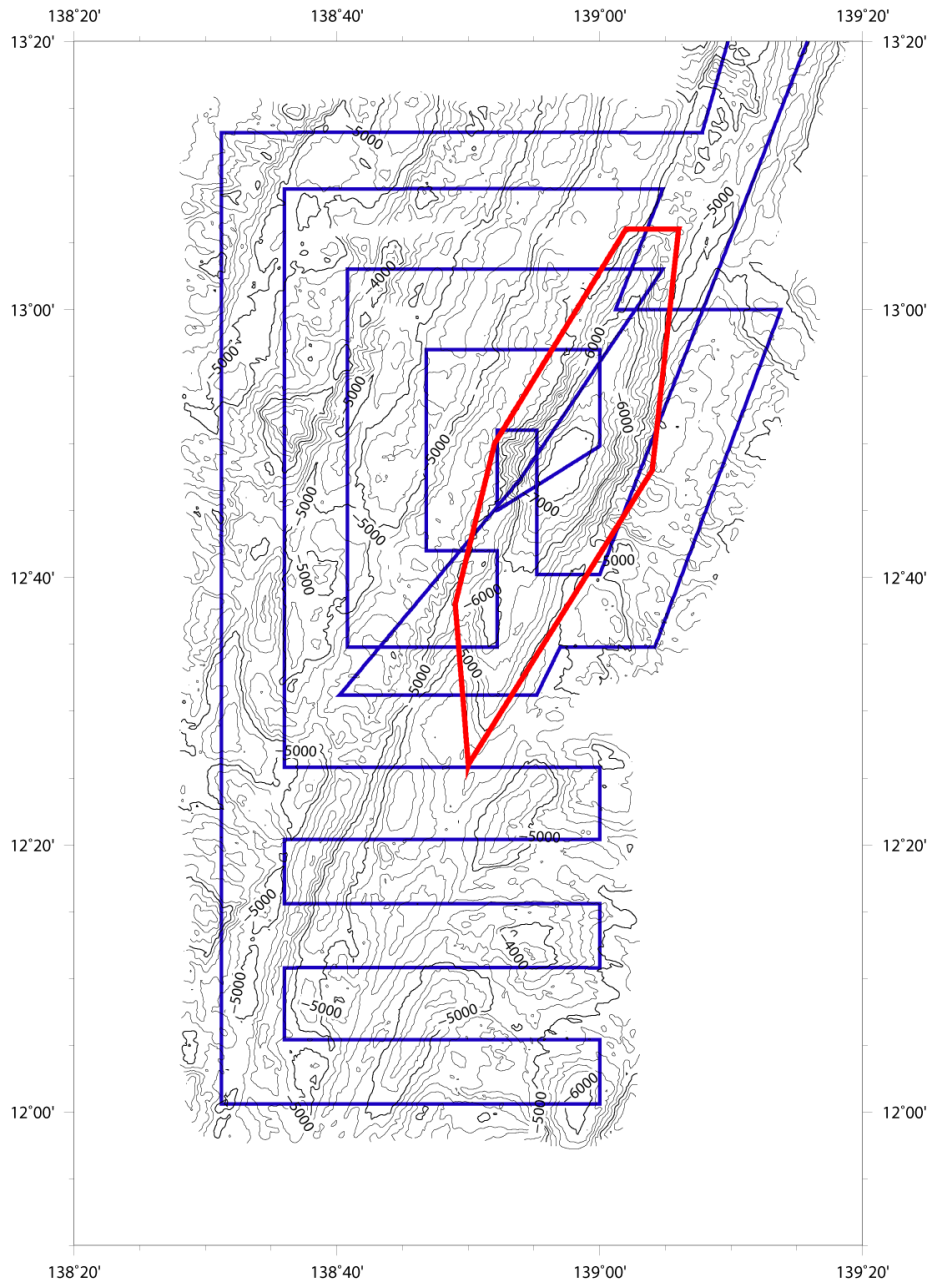


Fig 3. Bathymetric map of the Shinkai Deep. Contours are in 200 m. The polygon delineating the feature is shown in red line. The track of YK03-09-Leg 2 cruise is shown in blue line.