

UNDERSEA FEATURE NAME PROPOSAL
(Sea NOTE overleaf)

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

Name Proposed:	Oden Trough	Ocean or Sea:	Arctic 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				

* 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:	85°1.38006'N	149°57.55366'E
	85°2.72193'N	150°6.86112'E
	85°3.40162'N	150°17.07148'E
	85°3.82283'N	150°31.04353'E
	85°3.54798'N	150°42.46803'E
	85°2.36161'N	150°52.17241'E
	85°1.06245'N	150°54.99735'E
	84°59.55252'N	151°0.63038'E
	84°58.38583'N	151°2.55297'E
	84°57.20845'N	151°1.56519'E
	84°55.92049'N	150°58.32740'E
	84°54.77257'N	150°56.19848'E
	84°53.03405'N	150°55.33229'E
	84°51.74591'N	150°56.53337'E
	84°50.19193'N	150°59.36394'E
	84°49.25811'N	150°59.80574'E
	84°48.46711'N	151°6.56767'E
	84°46.96745'N	151°10.41672'E
	84°45.21110'N	151°9.12943'E
	84°42.02305'N	151°7.00717'E
	84°40.29648'N	151°4.64675'E
	84°37.86517'N	151°0.44591'E
	84°36.61797'N	150°59.01726'E
	84°35.19247'N	150°47.58628'E
	84°33.69472'N	150°32.52214'E
	84°32.19330'N	150°28.13752'E
	84°30.60122'N	150°26.15464'E
	84°29.30632'N	150°22.43280'E
	84°28.20911'N	150°14.39047'E
	4°27.17180'N	150°8.30057'E
	84°25.79661'N	149°57.01926'E
	84°25.03039'N	149°45.77669'E
	84°25.00203'N	149°28.29634'E
	84°25.16570'N	149°15.04496'E
	84°25.42194'N	149°5.73611'E
	84°26.66633'N	148°58.95296'E
	84°27.79983'N	148°57.86161'E
	84°29.23319'N	148°58.11415'E
	84°30.32781'N	148°58.64497'E
	84°31.20065'N	148°56.86184'E
84°32.21692'N	148°56.02415'E	
84°33.68324'N	148°58.40240'E	

	84°35.11037'N	149°2.45935'E
	84°36.38094'N	149°1.42075'E
	84°37.80133'N	149°4.61998'E
	84°40.30243'N	149°11.37509'E
	84°42.51644'N	149°16.24398'E
	84°43.80490'N	149°20.41621'E
	84°45.84066'N	149°13.96528'E
	84°47.02528'N	149°17.88046'E
	84°50.37918'N	149°22.76032'E
	84°52.60950'N	149°30.71885'E
	84°56.09963'N	149°41.89893'E
	84°57.34120'N	149°38.65229'E
	84°59.16897'N	149°42.52849'E
	85°0.31710'N	149°53.01467'E
	85°0.29803'N	149°52.63712'E
	85°1.38006'N	149°57.55366'E

Feature Description:	Maximum Depth:	1705 m in Trough	Steepness :	Steepest part of sidewall is >30°
	Minimum Depth :	Shallowest section of sidewall <900 m	Shape :	Trough
	Total Relief :		Dimension/Size :	~1080 km ²

Associated Features:	This feature is located within the Lomonosov Ridge
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Chart/Map References:	Shown Named on Map/Chart:	No map is showing the proposed name
	Shown Unnamed on Map/Chart:	The feature is not well expressed on published map nor on the International Bathymetric Chart of the Arctic Ocean (IBCAO) due to previous poor data coverage
	Within Area of Map/Chart:	n/a

Reason for Choice of Name (if a person, state how associated with the feature to be named):	Swedish Icebreaker (IB) Oden carried out the survey of the central Lomonosov Ridge during the SWERUS-C3 2014 expedition (Swedish – Russian – US Arctic Ocean Investigation of Climate-Cryosphere-Carbon Interactions). The undersea feature was mapped and is thus proposed to be named after the survey ship.
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Discovery Facts:	Discovery Date:	
	http://www.iarc.uaf.edu /Discoverer (Individual, Ship):	Swedish Icebreaker Oden

Supporting Survey Data, including Track Controls:	Date of Survey:	2014-09-19 to 2014-09-22
	Survey Ship:	IB Oden
	Sounding Equipment:	Kongsberg EM122, 12 kHz, 1°x1°
	Type of Navigation:	Seapath 330 (GPS/Glonass)
	Estimated Horizontal Accuracy (nm):	0.005-0.008 nm (10-15 m)
	Survey Track Spacing:	100 % overlapping multibeam
	Supporting material can be submitted as Annex in analog or digital form:Yes	

Proposer(s):	Name(s):	Martin Jakobsson (Co-Chief Scientist) Erik Andersson (Captain)
	Date:	2015-09-13
	E-mail:	Martin.jakobsson@geo.su.se
	Organization and Address:	Stockholm University
	Concurrer (name, e-mail, organization and address):	Erik Andersson, e_andersson74@hotmail.com, Swedish Maritime Administration.

Remarks:	
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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 Principality of MONACO 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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