

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:	Navarin Canyon (update GEBCO name location, not in ACUF)	Ocean or Sea:	Bering Sea
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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	No	No	Yes	No	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)
	Point (1764 m) 60° 31.1'N	Point (1764 m) 179° 46.8'W
	Line1 Start (56 m) 62° 03.3'N Line1 Mid1 (79 m) 62° 30.4'N Line1 Mid2 (188 m) 61° 25.4'N Line1 Mid3 (232 m) 61° 15.6'N Line1 Mid4 (382 m) 60° 52.2'N Line1 Mid5 (1461 m) 60° 39.9'N Line1 End (1698 m) 60° 33.3'N	Line1 Start (56 m) 172° 44.0'W Line1 Mid1 (79 m) 175° 16.8'W Line1 Mid2 (188 m) 178° 38.0'W Line1 Mid3 (232 m) 178° 55.8'W Line1 Mid4 (382 m) 179° 10.2'W Line1 Mid5 (1461 m) 179° 49.0'W Line1 End (1698 m) 179° 46.3'W
Line2 Start (38 m) 62° 14.2'N Line2 Mid1 (68 m) 61° 27.2'N Line2 Mid2 (96 m) 60° 40.5'N Line2 Mid3 (136 m) 59° 24.5'N Line2 Mid4 (157 m) 60° 34.7'N Line2 Mid5 (178 m) 60° 48.0'N Line2 Mid6 (1367 m) 60° 37.7'N Line2 Mid7 (1698 m) 60° 33.3'N Line2 Mid8 (1764 m) 60° 31.1'N Line2 Mid9 (3033 m) 59° 40.4'N Line2 Mid10 (3351 m) 59° 22.0'N Line2 End (3679 m) 58° 46.5'N	Line2 Start (38 m) 169° 27.1'W Line2 Mid1 (68 m) 172° 54.3'W Line2 Mid2 (96 m) 174° 39.3'W Line2 Mid3 (136 m) 175° 21.8'W Line2 Mid4 (157 m) 177° 38.4'W Line2 Mid5 (178 m) 178° 30.2'W Line2 Mid6 (1367 m) 179° 39.3'W Line2 Mid7 (1698 m) 179° 46.3'W Line2 Mid8 (1764 m) 179° 46.8'W Line2 Mid9 (3033 m) 179° 43.3'E Line2 Mid10 (3351 m) 179° 52.7'E Line2 End (3679 m) 179° 21.7'E	

Feature Description:	Maximum Depth:	3680 m	Steepness :	0.3°
	Minimum Depth :	38 m	Shape :	U/V
	Total Relief :	3579 m	Dimension/Size :	1161932 m long/ ~47000 m wide

Associated Features:	Northern canyons, Navarin South Canyon, Pervenets Canyon
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Chart/Map References:	Shown Named on Map/Chart:	
	Shown Unnamed on Map/Chart:	US Nav. Chart 514 (not depicted accurately at all)
	Within Area of Map/Chart:	

Reason for Choice of Name (if a person, state how associated with the	Our proposed canyon is recognized by GEBCO but not by ACUF.
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feature to be named):	The original placement of GEBCO's Navarin Canyon is too far to the west, on the wrong side of the 180 line. We assume that there was a +/- error with the longitude. The shift is about 60,000m.
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Discovery Facts:	Discovery Date:	1955
	Discoverer (Individual, Ship):	Russian Vessel "Zhenchug"

Supporting Survey Data, including Track Controls:	Date of Survey:	various
	Survey Ship:	various
	Sounding Equipment:	various
	Type of Navigation:	various
	Estimated Horizontal Accuracy, in nautical miles (M):	100 m horizontal resolution bathymetry surface
	Survey Track Spacing:	various
	Supporting material can be submitted as Annex in analog or digital form. Please see Zimmermann and Prescott (2018)	

Proposer(s):	Name(s):	Mark Zimmermann & Megan Prescott
	Date:	July 2018
	E-mail:	mark.zimmermann@noaa.gov
	Organization and Address:	National Marine Fisheries Service, NOAA, Alaska Fisheries Science Center, 7600 Sand Point Way NE, Bldg. 4, Seattle, WA 98115-6349 USA
	Concurrer (name, e-mail, organization and address):	

Remarks:	Zimmermann and Prescott (2018): shown in Fig. 8 (please see below). Harris et al. (2014): a short section is recognized as shelf incising canyon C9477. Harris and Whiteway (2011): recognized as Narvinsky canyon.
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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 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/
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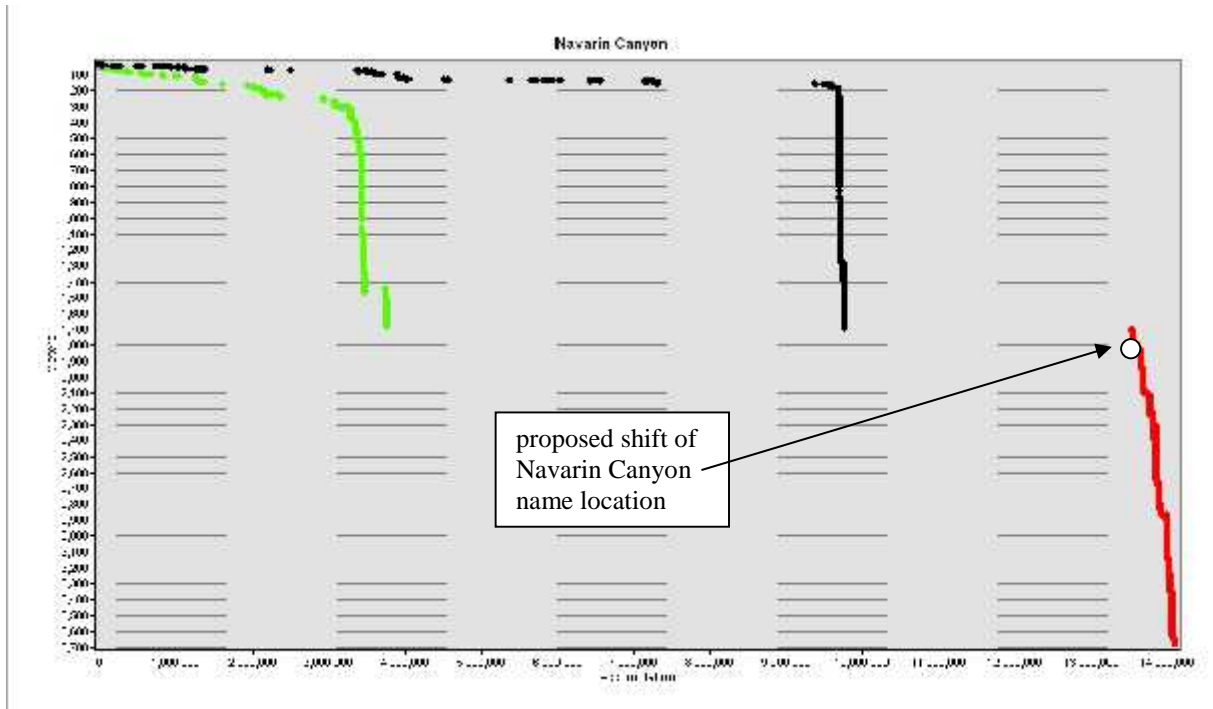


Figure 1. Plot of depth and accumulation of raster cells along main thalweg path (red points), north thalweg (green points), and east thalweg (black points).

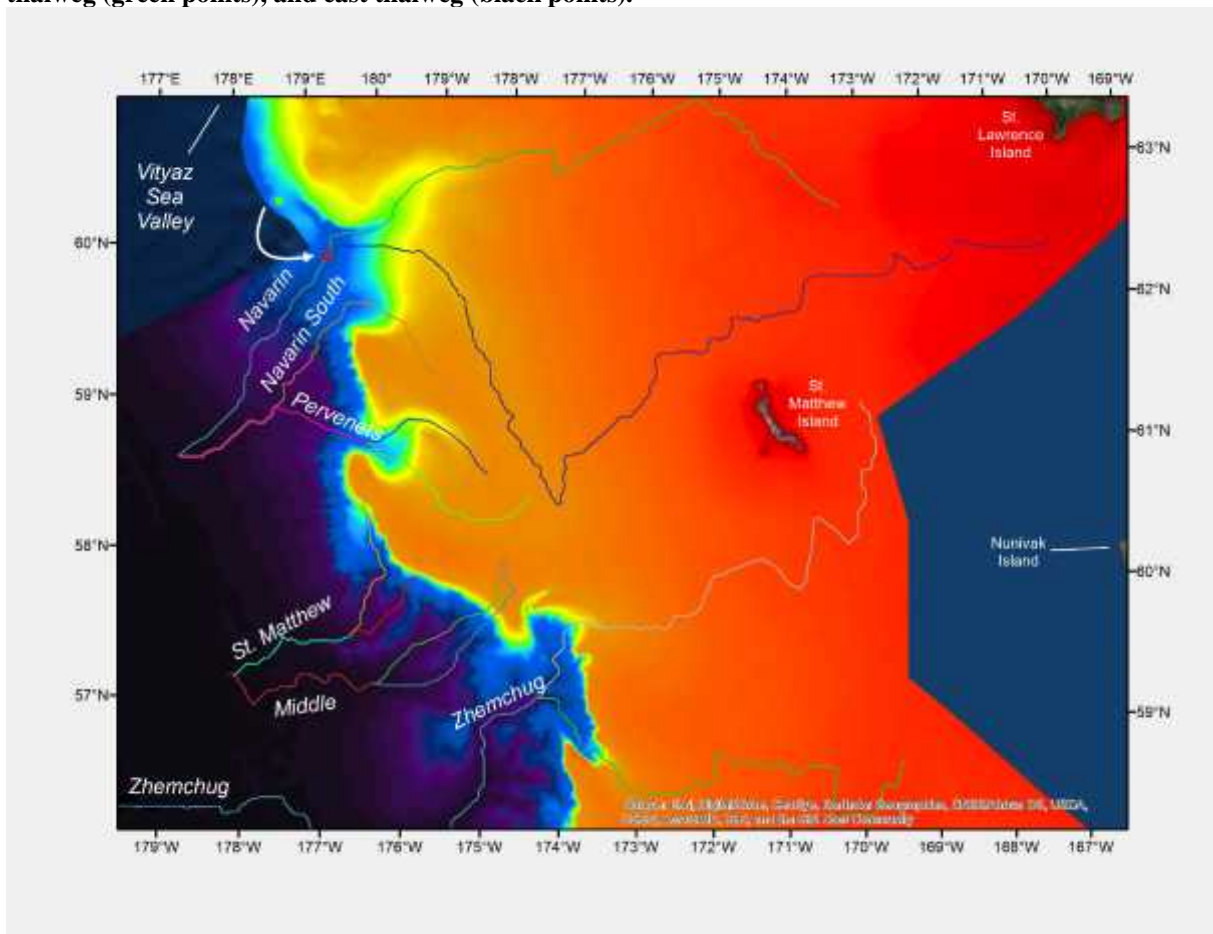


Figure 2. Modified version of Fig 8. (Zimmermann & Prescott, 2018) “Thalwegs of the Navarin Canyon area of the eastern Bering Sea slope” showing proposed Navarin Canyon place name.