

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:	Bering Valley (revise ACUF location)	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	No	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 (2605 m) 54° 10.6'N	Point (2605 m) 168° 45.4'W
	Line Start (2192 m) 54° 05.0'N	Line Start (2192 m) 167° 57.0'W
	Line Mid1 (2605 m) 54° 10.6'N	Line Mid1 (2605 m) 168° 45.4'W
	Line Mid2 (2754 m) 54° 23.7'N	Line Mid2 (2754 m) 169° 33.4'W
	Line Mid3 (2920 m) 55° 02.4'N	Line Mid3 (2920 m) 169° 42.6'W
	Line Mid4 (3335 m) 55° 23.1'N	Line Mid4 (3335 m) 170° 46.7'W
	Line Mid5 (3352 m) 55° 26.1'N	Line Mid5 (3352 m) 171° 14.0'W
	Line Mid6 (3468 m) 55° 16.6'N	Line Mid6 (3468 m) 172° 15.8'W
	Line Mid7 (3624 m) 54° 23.0'N	Line Mid7 (3624 m) 173° 21.8'W
Line Mid8 (3700 m) 54° 12.9'N	Line Mid8 (3700 m) 173° 52.3'W	
Line End (3694 m) 54° 38.5'N	Line End (3694 m) 175° 17.0'W	

Feature Description:	Maximum Depth:	3695 m	Steepness :	0.2°
	Minimum Depth :	2192 m	Shape :	U/V
	Total Relief :	1503 m	Dimension/Size :	696452 m long/ ~50000 m wide

Associated Features:	Bering canyons
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Chart/Map References:	Shown Named on Map/Chart:	
	Shown Unnamed on Map/Chart:	US Nav. Chart 16011
	Within Area of Map/Chart:	

Reason for Choice of Name (if a person, state how associated with the feature to be named):	Bering Channel is recognized by ACUF, but farther to the west in the Aleutian Basin, after many canyons have merged with it. Thus we suggest moving the name upstream, to the east, at the steepest point. GEBCCO's "Bering Canyon" falls on our Bering Valley.
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Discovery Facts:	Discovery Date:	Listed and Modified in ACUF as of 2005, but no accompanying information can be found.
	Discoverer (Individual, Ship):	

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:	<p>Zimmermann and Prescott (2018): shown in Fig. 7 (please see below). Harris et al. (2014): the western part of this feature is recognized as shelf incising canyon C8805. Harris and Whiteway (2011): shallower part recognized as unnamed canyon.</p>	

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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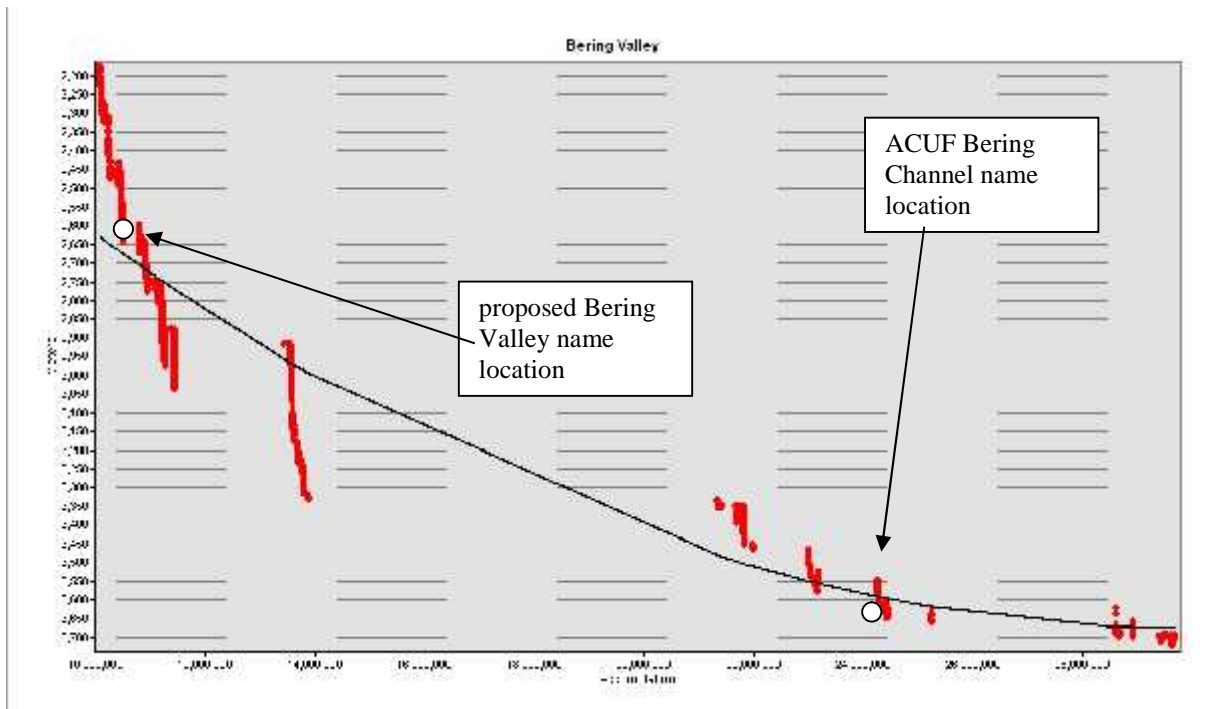


Figure 1. Plot of depth and accumulation of raster cells along main thalweg path, with fitted curve.

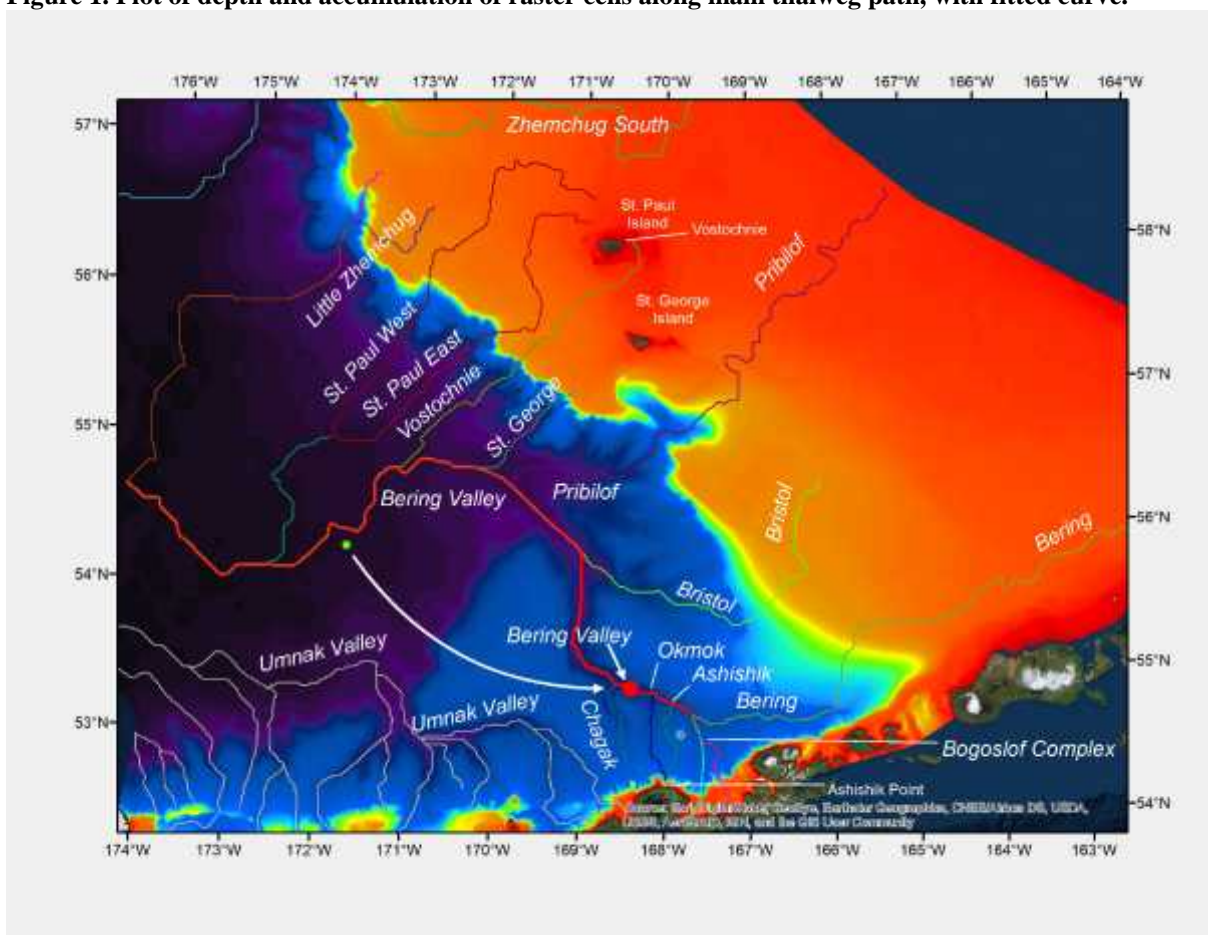


Figure 2. Modified version of Fig 7. (Zimmermann & Prescott, 2018) “Thalwegs of the Bering Canyon area of the eastern Bering Sea slope” showing proposed shift of Bering Channel to Bering Valley place name.