

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:	Urnak Canyon (revise ACUF location, agree with GEBCO line feature)	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 (1416 m) 53° 12.5'N	Point (1416 m) 169° 25.3'W
	Line Start (422 m) 53° 11.3'N	Line Start (422 m) 168° 50.5'W
	Line Mid1 (703 m) 53° 13.9'N	Line Mid1 (703 m) 168° 55.3'W
	Line Mid2 (1247 m) 53° 07.7'N	Line Mid2 (1247 m) 169° 13.9'W
	Line Mid3 (1416 m) 53° 12.5'N	Line Mid3 (1416 m) 169° 25.3'W
	Line Mid4 (2455 m) 53° 40.3'N	Line Mid4 (2455 m) 169° 32.8'W
	Line End (2444 m) 53° 44.7'N	Line End (2444 m) 169° 46.3'W

Feature Description:	Maximum Depth:	2444 m	Steepness :	1.4°
	Minimum Depth :	422 m	Shape :	U/V
	Total Relief :	2021 m	Dimension/Size :	126287 m long/ ~33000 m wide

Associated Features:	Urnak canyons, Inanudak Canyon, Urnak Valley
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Chart/Map References:	Shown Named on Map/Chart:	US Bathy Chart UNALASKA – 1710N-2
	Shown Unnamed on Map/Chart:	US Nav. Chart 16500
	Within Area of Map/Chart:	

Reason for Choice of Name (if a person, state how associated with the feature to be named):	<p>The GEBCO line feature for Urnak partly overlaps with our Urnak Canyon and overlaps with the beginning of our Urnak Valley. Urnak Canyon is a name already recognized by ACUF, but their location is about 71000 m to the north of our suggested location, after Urnak has joined with another canyon (our proposed Inanudak). At its present location, we are suggesting that the ACUF location of Urnak Canyon is more suitable to a feature entitled Urnak Valley.</p> <p>This canyon covers a larger area than the eastern-most Urnak region canyon (which we are calling Inanudak), and therefore we thought it made more sense to name this one Urnak.</p> <p>ACUF has place names of Uliaga, Okmuk, and Inanudak Canyons in this area, and appears to call this canyon Uliaga.</p>
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Discovery Facts:	Discovery Date:	Listed in both ACUF and GEBCO gazetteers, with no accompanying information provided.
	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
	Concurren (name, e-mail, organization and address):	
Remarks:	Zimmermann and Prescott (2018): shown in Fig. 6 (please see below). Harris et al. (2014): recognized as shelf incising canyon C8654. Harris and Whiteway (2011): recognized as Urmak canyon.	

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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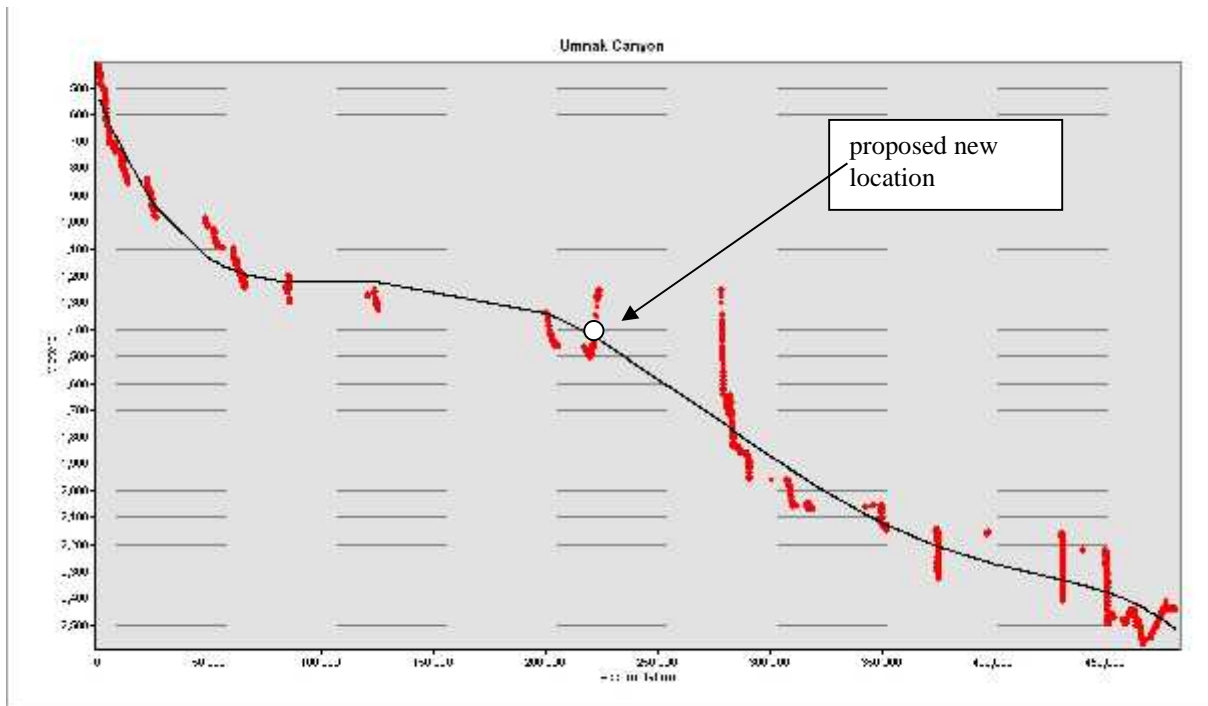


Figure 1. Plot of depth and accumulation of raster cells along main thalweg path, with fitted curve.

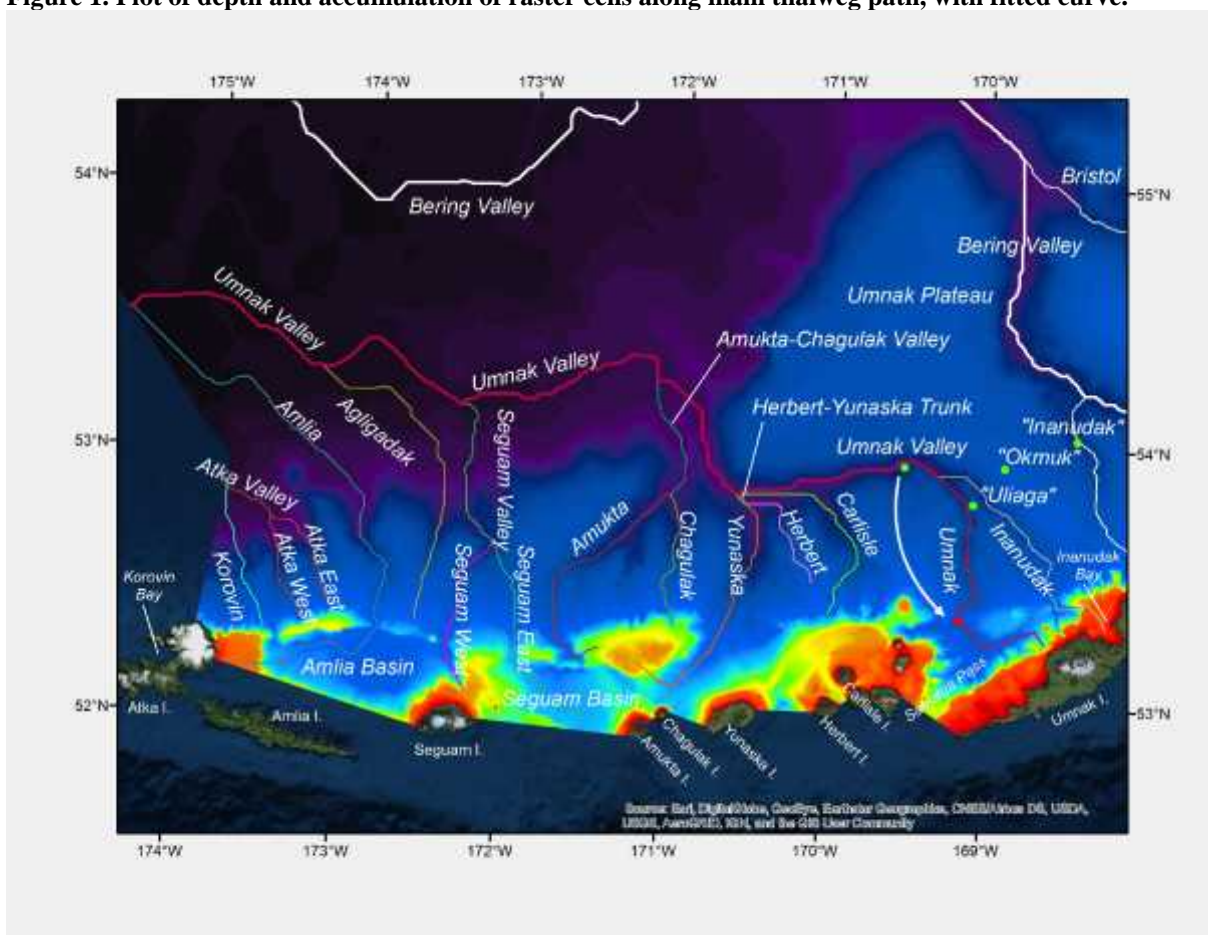


Figure 2. Modified version of Fig 6. (Zimmermann & Prescott, 2018) “Thalwegs of the Umnak Canyon area of the eastern Bering Sea slope” showing proposed location change for Umnak Canyon place name. This canyon appears to be the one named Uliaga by ACUF.