INTERNATIONAL HYDROGRAPHIC ORGANIZATION

INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION (of UNESCO)

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:	Umnak Valley (dividing ACUF feature into canyon and valley)	**Ocean or Sea:**	Bering Sea

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.*

	Lat. (e.g. 63°32.6'N)	Long. (e.g. 046°21.3'W)
Coordinates:	Point (3346 m) 53° 54.9'N Line Start (2445 m) 53° 44.7'N Line Mid1 (2712 m) 53° 28.9'N Line Mid2 (3346 m) 53° 54.9'N Line Mid3 (3555 m) 53° 32.3'N Line Mid4 (3699 m) 53° 31.2'N Line End (3713 m) 53° 31.3'N	Point (3346 m) 171° 53.9'W Line Start (2445 m) 169° 46.5W Line Mid1 (2712 m) 171° 01.9'W Line Mid2 (3346 m) 171° 53.9'W Line Mid3 (3555 m) 172° 56.9'W Line Mid4 (3699 m) 173° 57.8'W Line End (3713 m) 175° 13.1'W

Feature Description:	Maximum Depth:	3713 m	Steepness :	0.3°
	Minimum Depth :	2445 m	Shape :	U/V
	Total Relief :	1268 m	Dimension/Size :	452519 m long/ ~25000 m wide

Associated Features:	Umnak canyons

Chart/Map References:	Shown Named on Map/Chart:	US Bathy Chart AMLIA –1810N-1
	Shown Unnamed on Map/Chart:	US Nav. Chart 16011 & 16012
	Within Area of Map/Chart:	

Reason for Choice of Name (if a person, state how associated with the feature to be named)**:**	We suggest that Umnak Valley begins at the location where Umnak and Inanudak Canyons meet. In our limited analysis, Umnak Valley ends just to the west of where Amlia Canyon joins it (at western end of bathymetry compilation). Umnak Valley is the destination for numerous canyons extending north from the Aleutian Islands.

Discovery Facts:	Discovery Date:	Umnak Canyon is listed in ACUF and GEBCO Gazetteers, but has no accompanying information provided.
	Discoverer (Individual, Ship):	

Supporting Survey Data, including Track Controls:	Date of Survey:	various
	Survey Ship:	various
	Sounding Equipement:	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 Zimmmermann & 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. 6 (please see below). Harris et al. (2014): eastern end is recognized as shelf incising canyon C8654. Some eastern sections are termed "Basins perched on shelf" while the western end is termed "Abyss." Harris and Whiteway (2011): eastern end recognized as Umnak 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/

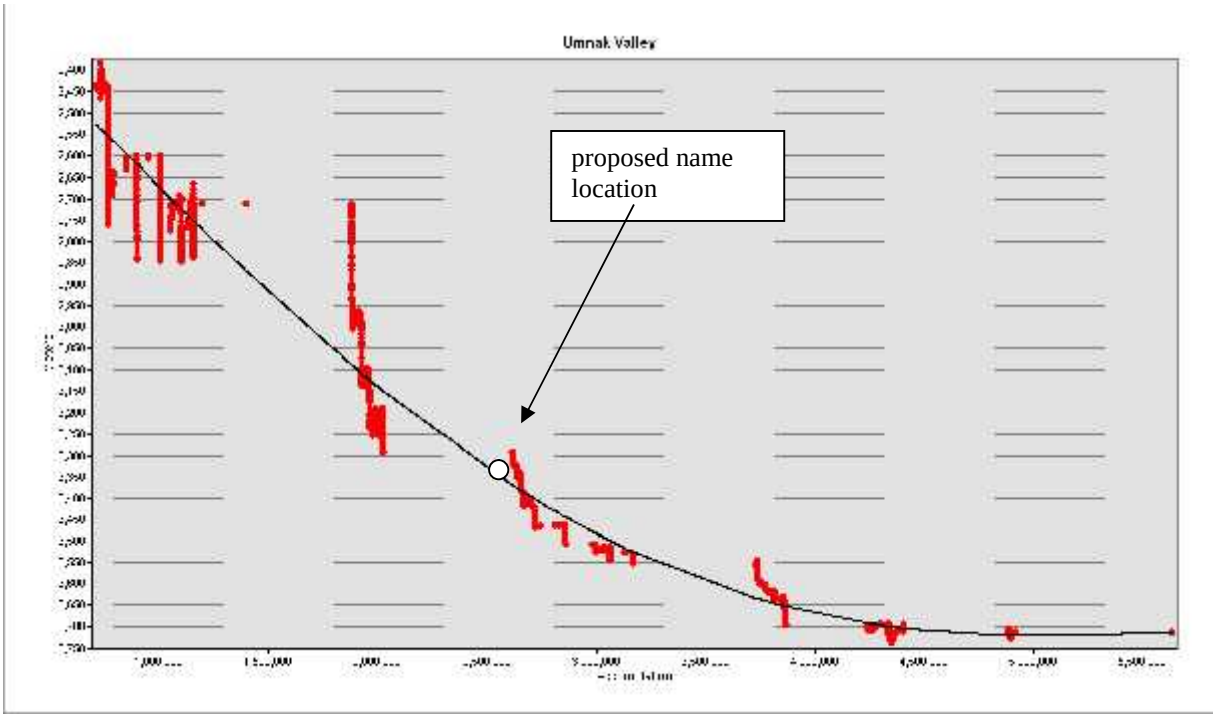

Figure 1. Plot of depth and accumulation of raster cells along main thalweg path, with fitted curve.

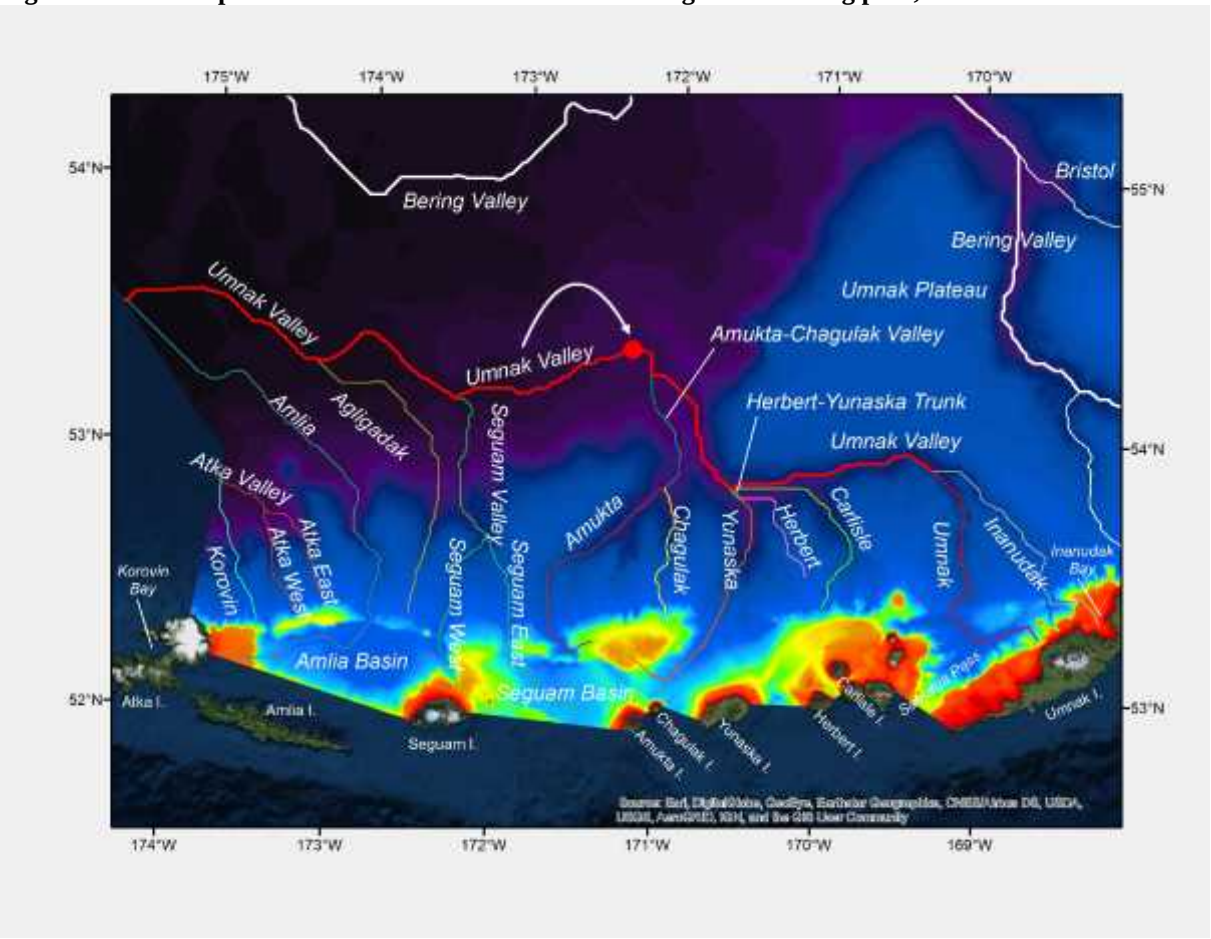

Figure 2. Modified version of Fig 6. (Zimmermann &Prescott, 2018) "Thalwegs of the Umnak Canyon area of the eastern Bering Sea slope" showing proposed location for Umnak Valley place name.