

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:	Seguam West Canyon (revise ACUF name and 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 (1116 m) 52° 37.4'N	Point (1116 m) 172° 36.7'W
	Line Start (170 m) 52° 26.8'N	Line Start (170 m) 172° 24.3'W
	Line Mid1 (1000 m) 52° 34.5'N	Line Mid1 (1000 m) 172° 35.4'W
	Line Mid2 (1116 m) 52° 37.4'N	Line Mid2 (1116 m) 172° 36.7'W
	Line Mid3 (2000 m) 52° 52.8'N	Line Mid3 (2000 m) 172° 37.5'W
	Line End (2460 m) 53° 02.6'N	Line End (2460 m) 172° 29.8'W

Feature Description:	Maximum Depth:	2460 m	Steepness :	2.6°
	Minimum Depth :	170 m	Shape :	U/V
	Total Relief :	2290 m	Dimension/Size :	79158 m long/ ~20000 m wide

Associated Features:	Urmak canyons, Seguam East Canyon
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Chart/Map References:	Shown Named on Map/Chart:	US Bathy Chart AMLIA-1810N-1
	Shown Unnamed on Map/Chart:	US Nav. Chart 16480
	Within Area of Map/Chart:	

Reason for Choice of Name (if a person, state how associated with the feature to be named):	Seguam Canyon is a name already recognized by ACUF, taken from nearby Seguam Island. Our analysis shows that the ACUF place name falls on a western thalweg that joins with a similar eastern thalweg that is unnamed. The eastern thalweg drains a larger area than the western thalweg, but we propose that the most parsimonious solution is to call them "Seguam West" and "Seguam East" canyons, which together combine and form "Seguam Valley."
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Discovery Facts:	Discovery Date:	Listed in ACUF Gazetteer "prior to 1993" but 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: Estimated Horizontal Accuracy, in nautical miles (M): Survey Track Spacing: Supporting material can be submitted as Annex in analog or digital form. Please see Zimmermann and Prescott (2018)	various 100 m horizontal resolution bathymetry surface various
Proposer(s):	Name(s): Date: E-mail: Organization and Address: Concurren (name, e-mail, organization and address):	Mark Zimmermann & Megan Prescott July 2018 mark.zimmermann@noaa.gov National Marine Fisheries Service, NOAA, Alaska Fisheries Science Center, 7600 Sand Point Way NE, Bldg. 4, Seattle, WA 98115-6349 USA
Remarks:	Zimmermann and Prescott (2018): shown in Fig. 6 (please see below). Harris et al. (2014): Seguam East & West recognized as shelf incising canyon C8619. Harris and Whiteway (2011): Seguam complex recognized as a single canyon, more along the Seguam West side.	

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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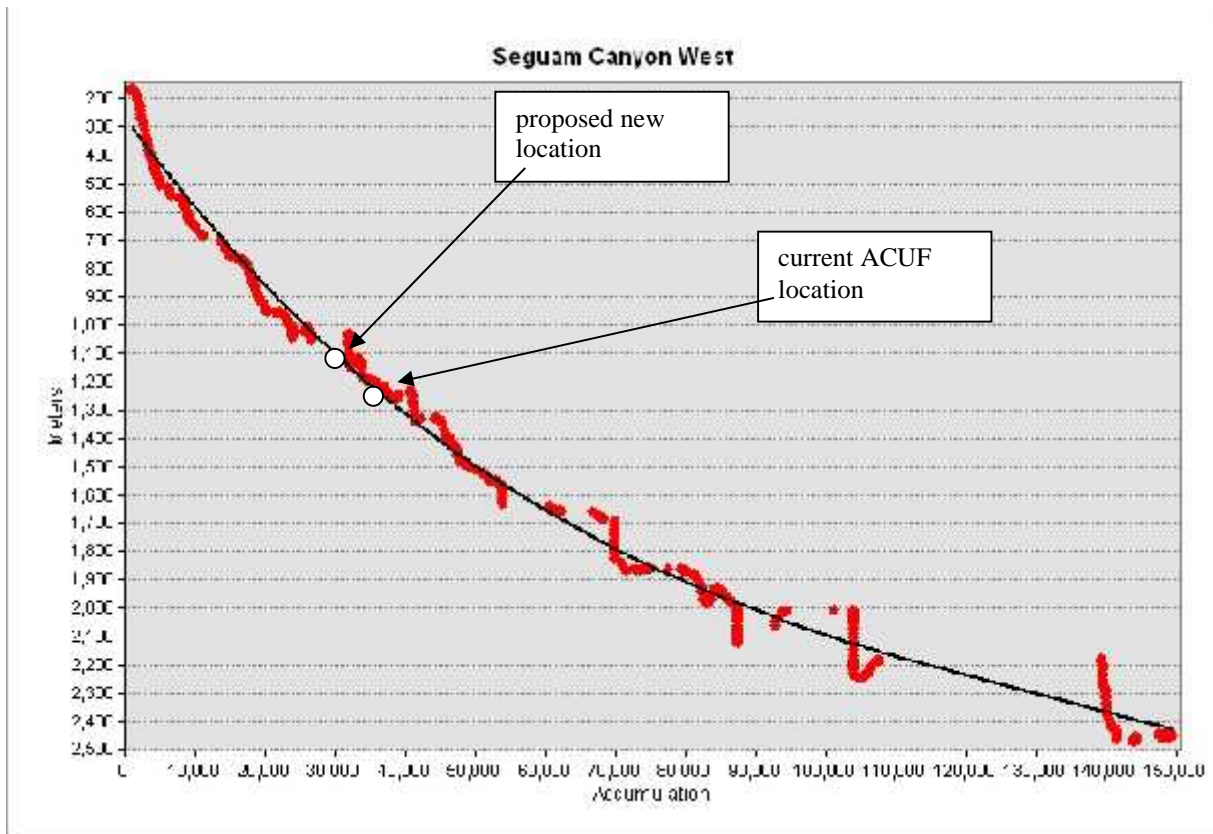


Figure 1. Plot of depth and accumulation of raster cells along main thalweg path, with fitted curve.

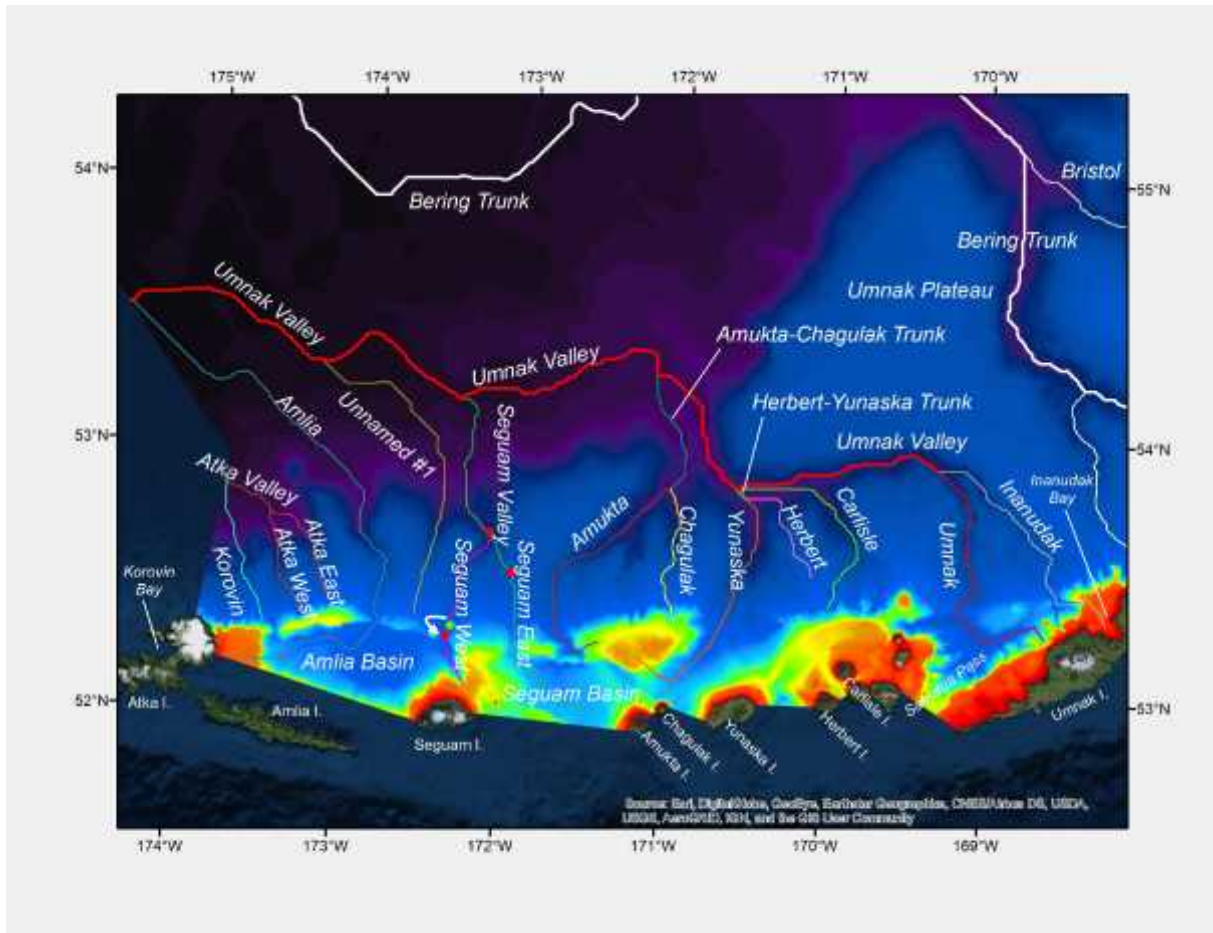


Figure 2. Modified version of Fig 6. (Zimmermann & Prescott, 2018) “Thalwegs of the Umnak Canyon area of the eastern Bering Sea slope” showing proposed location change for Seguam Canyon West place name.