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:	Seguam East Canyon	**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 (1817 m) 52° 55.8'N Line Start (558 m) 52° 38.0'N Line Mid1 (1000 m) 52° 45.6'N Line Mid2 (1817 m) 52° 55.8'N Line Mid3 (2000 m) 52° 58.4'N Line End (2462 m) 53° 02.6'N	Point (1817 m) 172° 18.6'W Line Start (558 m) 172° 09.8'W Line Mid1 (1000 m) 172° 12.6'W Line Mid2 (1817 m) 172° 18.6'W Line Mid3 (2000 m) 172° 24.2'W Line End (2462 m) 172° 29.6'W

Feature Description:	Maximum Depth:	2462 m	Steepness :	3.0°
	Minimum Depth :	558 m	Shape :	U/V
	Total Relief :	1903 m	Dimension/Size :	56243 m long/ ~10000 m wide

Associated Features:	Umnak canyons, Seguam West Canyon

Chart/Map References:	Shown Named on Map/Chart:	
	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."

Discovery Facts:	Discovery Date:	Listed in ACUF Gazetteer "prior to 1993" but not accompanying information is 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): 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/

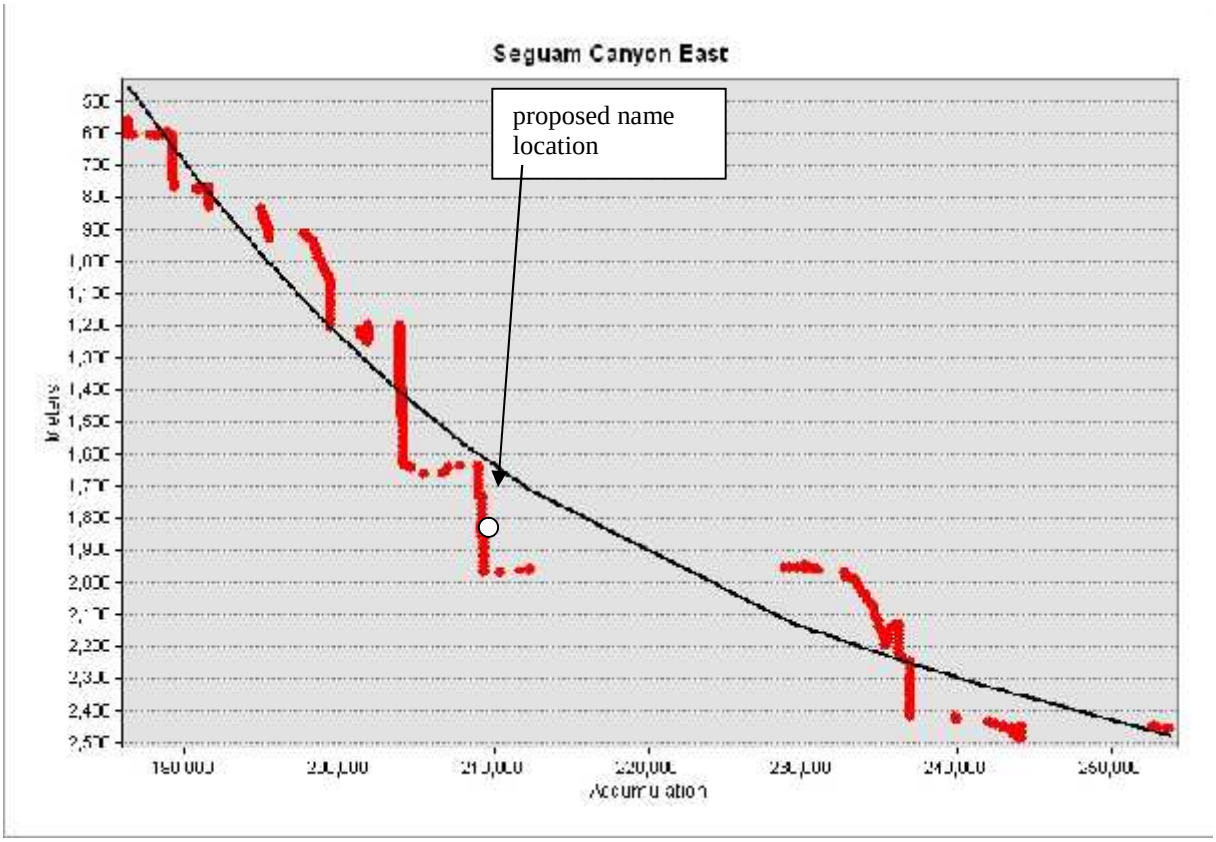

Figure 1. Plot of depth and accumulation of raster cells along main thalweg path, with fitted curve.

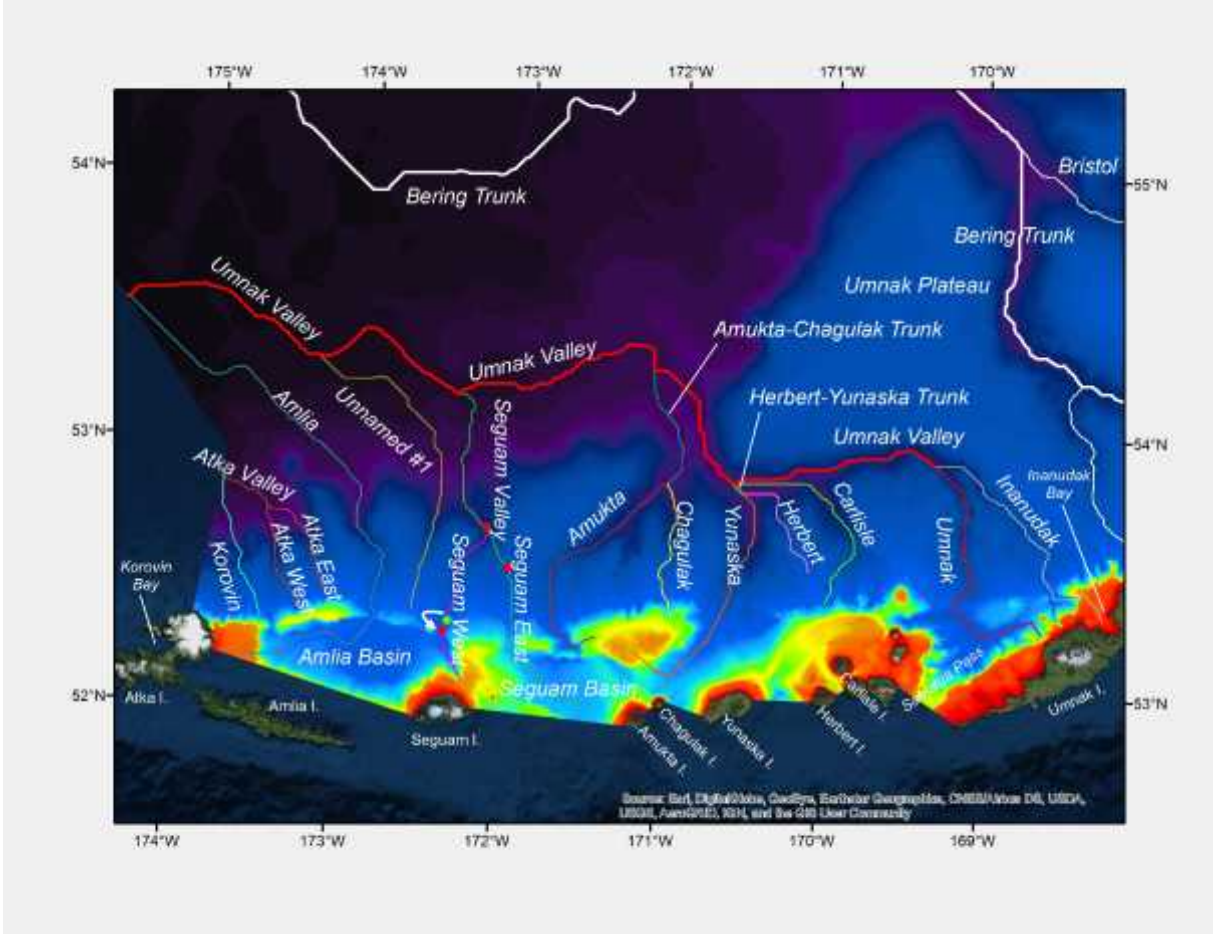

Figure 2. Modified version of Fig 6. (Zimmermann & Prescott, 2018) "Thalwegs of the Umnak Canyon area of the eastern Bering Sea slope" showing proposed location for Seguam Canyon East.