

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: Amlia Sill **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) Point (173 m) 52° 31.8'N	Long. (e.g. 046° 21.3'W) Point (173 m) 173° 26.5'W
Coordinates:	Line Start (183 m) 52° 28.1'N Line Mid1 (173 m) 52° 31.8'N Line Mid2 (203 m) 52° 34.6'N Line Mid3 (383 m) 52° 35.3'N Line Mid4 (483 m) 52° 36.2'N Line End (185 m) 52° 36.7'N	Line Start (183 m) 173° 35.5'W Line Mid1 (173 m) 173° 26.5'W Line Mid2 (203 m) 173° 14.9'W Line Mid3 (383 m) 173° 10.3'W Line Mid4 (483 m) 172° 54.5'W Line End (185 m) 172° 41.3'W

Feature Description:	Maximum Depth:	1050 m	Steepness :	1.1°
	Minimum Depth :	173 m	Shape :	elliptical
	Total Relief :	877 m	Dimension/Size :	70000 m long/ ~6000 m wide

Associated Features: Urmak canyons, Amlia 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):	Amlia Sill partially separates Amlia Basin from the Aleutian Basin. There are some shallow peaks along the sill of about 200 m. The sill is bordered by a depth of ~680 m on the west (near Atka Island) and ~1030 m on the east (near Seguam Island). The sill is discontinuous due to deep gaps in the sill, most notably near the center of the sill, with Amlia Canyon/Basin thalweg, having a shallow spot of ~1060 m. Named after the nearby Amlia Island.
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Discovery Facts:	Discovery Date:	previously charted but not named
	Discoverer (Individual, Ship):	NA

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".	

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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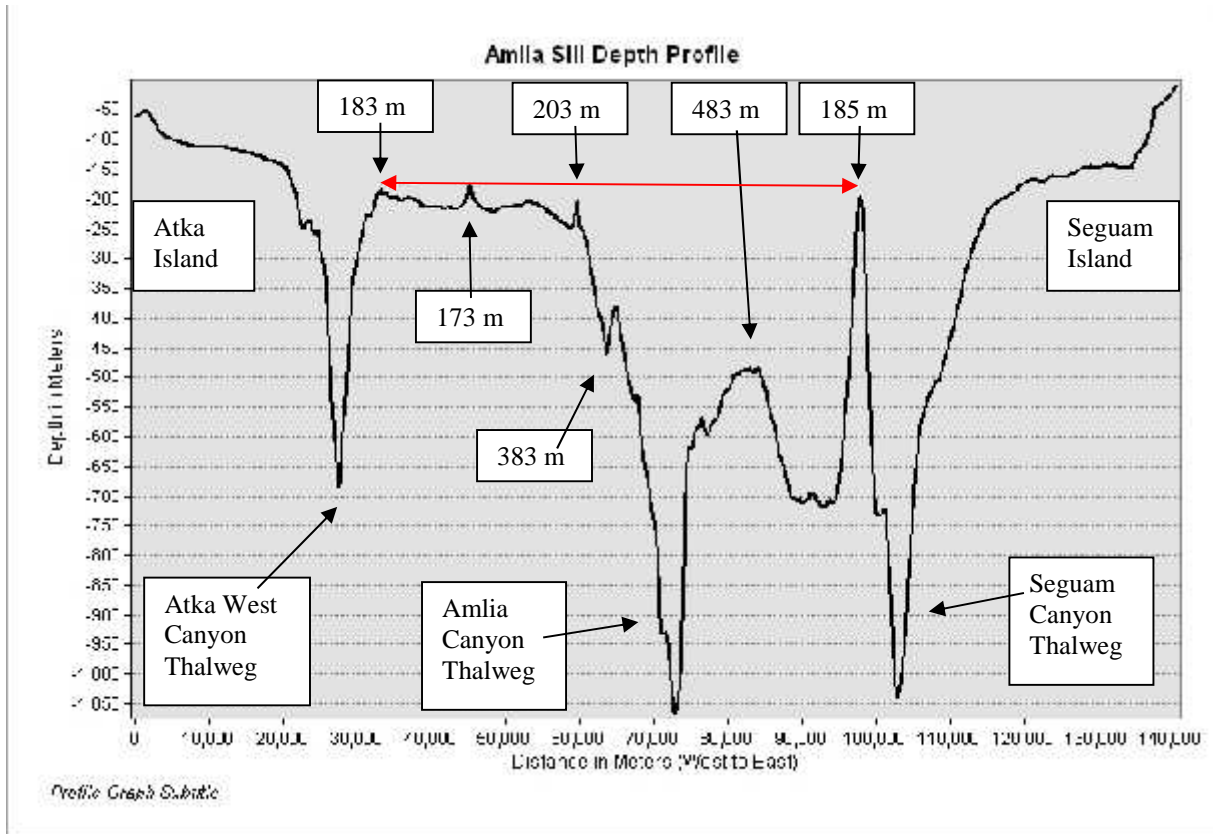


Figure 1. Plot of horizontal cross-section along selected shallow locations of Amlia Sill, extending from Atka Island in the west to Segum Island in the east. We propose that the sill starts at the 183 m location in the west and ends at the 185 m location in the east.

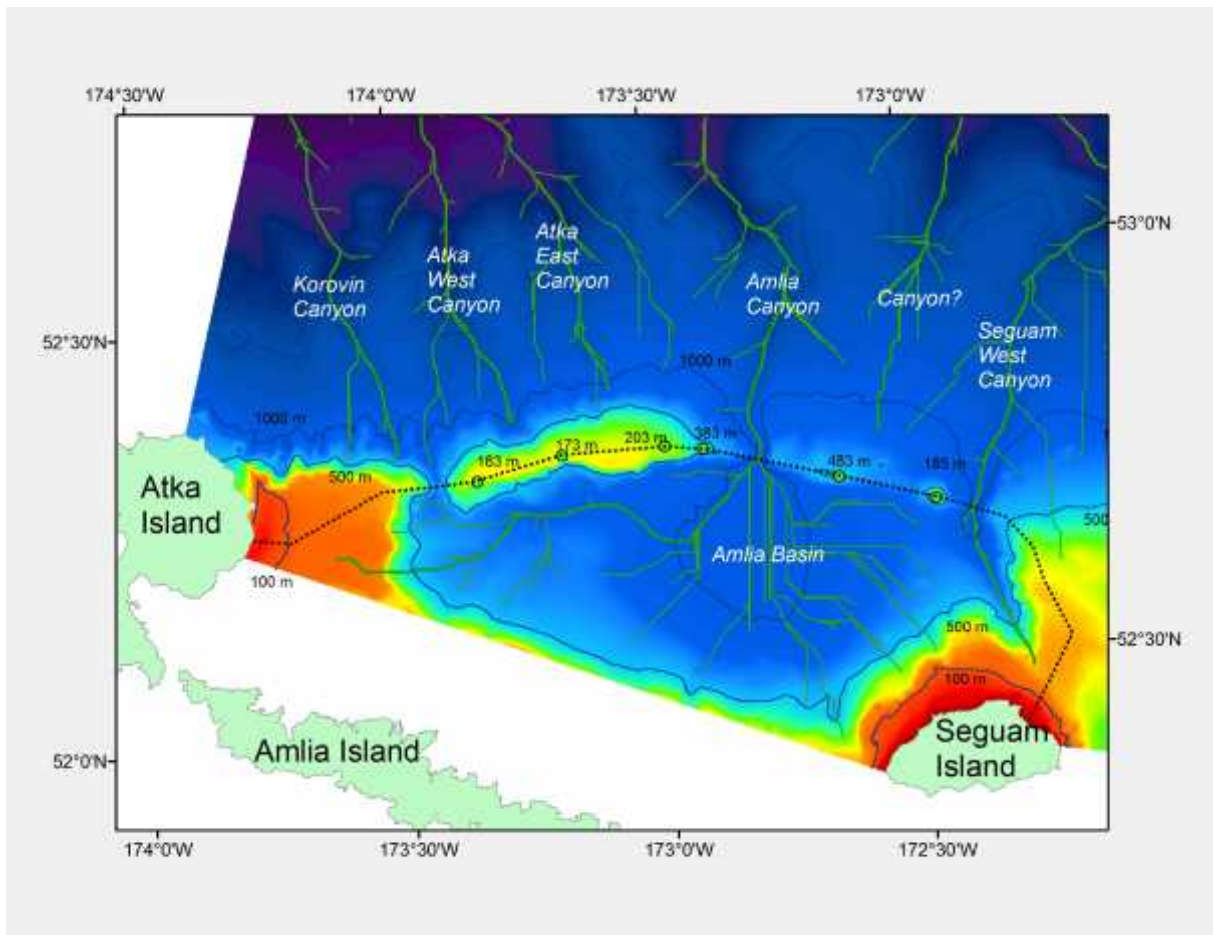


Figure 2. Modified version of Fig 6. (Zimmermann & Prescott, 2018) “Thalwegs of the Umnak Canyon area of the eastern Bering Sea slope” showing selected high points along proposed undersea feature Amlia Sill.