

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: Herbert Canyon (ACUF location) **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.

Coordinates:

	Lat. (e.g. 63°32.6'N) Point (2674 m) 53° 27.9'N	Long. (e.g. 046°21.3'W) Point (2674 m) 170° 43.2'W
	Line Start (1563 m) 53° 13.0'N	Line Start (1563 m) 170° 24.9'W
	Line Mid1 (2674 m) 53° 27.9'N	Line Mid1 (2674 m) 170° 43.2'W
	Line Mid2 (2694 m) 53° 29.2'N	Line Mid2 (2694 m) 170° 46.0'W
	Line End (2791 m) 53° 27.4'N	Line End (2791 m) 170° 57.4'W

Feature Description:

Maximum Depth:	2791 m	Steepness :	1.9°
Minimum Depth :	1563 m	Shape :	U/V
Total Relief :	1229 m	Dimension/Size :	57063 m long/ ~8000 m wide

Associated Features: Urmak canyons, Yunaska Canyon, Carlisle Canyon

Chart/Map References:

Shown Named on Map/Chart:	US Bathy Chart AMLIA-1810N-1
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):
Herbert Canyon is a name already recognized by ACUF, but their location is about 3000 m to the east of the main canyon thalweg. We are suggesting that the placement could be farther west, and downhill, at a steeper part of the canyon. We have retained the name Herbert Canyon from the ACUF Gazetteer but there is no accompanying information as to the source of said name.

Discovery Facts:

Discovery Date:	Listed in ACUF Gazetteer "prior to 1993" but no accompanying information is 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 "slope". Harris and Whiteway (2011): not recognized as a 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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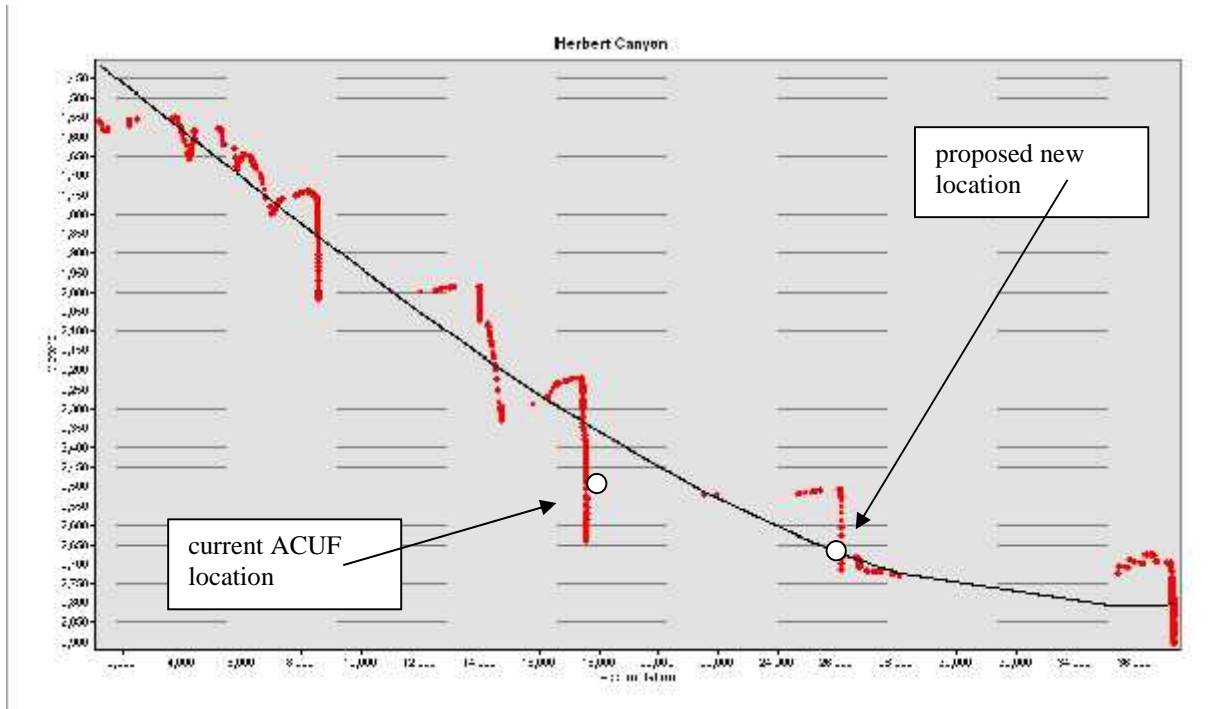


Figure 1. Plot of depth and accumulation of raster cells along main thalweg path, with fitted curve.

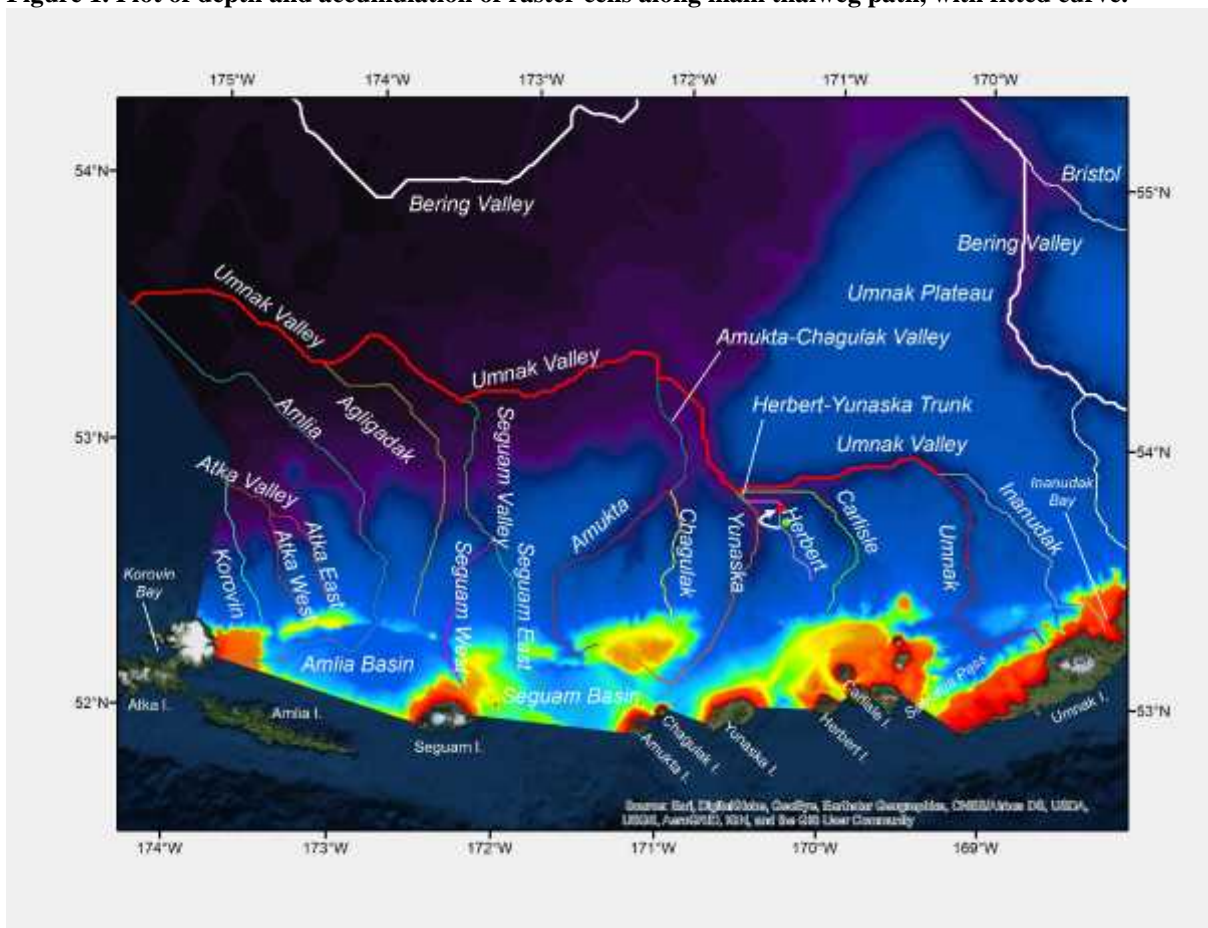


Figure 2. Modified version of Fig 6. (Zimmermann & Prescott, 2018) “Thalwegs of the Umnak Canyon area of the eastern Bering Sea slope” showing proposed location change for Herbert Canyon place name.