## 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:	-,	expand as you fill the form.  Little Zhemchug Canyon (new Ocean or Sea: Bering Sea feature)						
<b>Geometry</b> that bes	t defines the feat Line	ture (Yes/No) : Polygon	Multiple points	Multiple lir		 Litiple	Combination of	
Yes	Yes	No No	No	Yes		/gons* No	geometries* Yes	
Geometry snould " 	be clearly disting	,	oviding the coordin			-,:		
			Lat. (e.g. 63°32.6') int (1915 m) 56° 49				6°21.3'W) 173° 36.6'W	
		Line1 Line1	Start (124 m) 57° Mid1 (305 m) 57° Mid2 (1236 m) 56°	06.8'N ' 56.5'N	Line1 Mid Line1 Mid	d1 (305 m 12 (1236 r	n) 173° 22.0'W n) 173° 31.5'W m) 173° 30.1'W	
Coordinates:		Line2	End (1533 m) 56° 2 Start (115 m) 57° 2 Mid1 (134 m) 56°	07.7'N	Line2 Sta Line2 Mid	art (115 m d1 (134 m	n) 173° 34.1′W n) 172° 37.2′W n) 172° 46.6′W	
Coordinates.		Line2 Line2	Mid2 (425 m) 56° Mid3 (1533 m) 56° Mid4 (1915 m) 56°	51.9'N 49.9'N	Line2 Mid Line2 Mid	13 (1533 r 14 (1915 r	n) 173° 23.1'W n) 173° 34.1'W n) 173° 36.6'W	
		Line2 Line2	Mid5 (2760 m) 56° Mid6 (3094 m) 56° Mid7 (3413 m) 56°	32.6'N 12.8'N	Line2 Mid Line2 Mid	16 (3094 r 17 (3413 r	n) 173° 40.1'W n) 173° 33.9'W n) 174° 05.0'W	
							n) 175° 15.9'W n) 175° 17.0'W	
,	Maximur	n Denth:	604 m	Steens		0.7°		
Maximum De Feature Minimum De		~	~		Steepness : Shape :		U/V	
Description:	Total Rel		579 m		nsion/Size:	4531	175 m long/ 000 m wide	
Associated Feat	ıres:	Bering a	anyons, Pribilof Is	sland area c	anyons, Zhe	mchug C	Canyon	
,		Shown Na	amed on Map/Char	 t:	,			
Chart/Map References:		Shown Ur	Shown Unnamed on Map/Chart: US Nav. Chart 16011, 16012 Within Area of Map/Chart:					
Passon for Chair	o of Name (if a		oppod oppragation	ot roccani-	od by ^Q F		·	
Reason for Choice of Name (if a person, state how associated with the feature to be named):		ne While the north tha coordina remainde	Our proposed canyon is not recognized by ACUF or GEBCO. While the north thalweg drains a smaller area than the east thalweg, the north thalweg runs down a more distinct canyon. We have supplied coordinates for the north thalweg as Line 1 and the east thalweg (plus remainder of the canyon) as line 2. The single point is just down stream from where the two thalwegs meet, at					
the steepest part of the canyon. Zhemchug Canyon falls on the noi					•			

,	side of Saint Paul Spur (ACUF) Zhemchug is the dominant canyon, our Little Zhemchug Canyon falls on the southern side of the spur, sourced					
1 1	; Little 2 termining Carlyon rails on the southern side of the spur, sourced ; from the same waters as Zhemchug.					
!	indinine same waters as 21 terraining.					
;	L Diagram Defe					
Discovery Facts:	Discovery Date: Discoverer (Individual, Ship):	2018 2018				
	i Discoverer (iridividual, Srlip).	. 2010				
,	-,	<b>*</b>				
	Date of Survey:	various				
 	Survey Ship:	¦various				
	Sounding Equipement:	various				
Supporting Survey Data, including	Type of Navigation:	' various				
Track Controls:	Estimated Horizontal Accuracy, in	100 m horizontal resolution				
Track Controls.	nautical miles (M):	bathymetry surface				
1 1	Survey Track Spacing:	various				
I I	Supporting material can be submitted as	s Annex in analog or digital form.				
I I	Please see Zimmermann and Prescott (2018)					
!	¦ Name(s):	, Mark Zimmmermann & Megan Prescott				
 	Date:	. July 2018				
i 1	E-mail:	; mark.zimmermann@noaa.gov				
  - 	Organization and Address:	! National Marine Fisheries Service,				
Proposer(s):	Organization and Address.	NOAA, Alaska Fisheries Science				
Troposci(s).		Center, 7600 Sand Point Way NE,				
		Bldg. 4, Seattle, WA 98115-6349 USA				
! : !	Concurrer (name, e-mail, organization	1 Diag. 4, Seattle, VVA 30113-0049 005A				
I I	! and address):	1				
	, and address).	i i				
·		*				
,						
, ,	Zimmermann and Prescott (2018): sl					
Remarks:		hown in Fig. 7 (please see below). s recognized as shelf incising canyon				
Remarks:						
Remarks:	Harris et al. (2014): a short section is C8836.	s recognized as shelf incising canyon				
Remarks:	Harris et al. (2014): a short section is C8836. Harris and Whiteway (2011): part of	s recognized as shelf incising canyon the north thlaweg and the upper part				
Remarks:	Harris et al. (2014): a short section is C8836. Harris and Whiteway (2011): part of of the main canyon are recognized a	s recognized as shelf incising canyon the north thlaweg and the upper part is one unnamed canyon, while a				
Remarks:	Harris et al. (2014): a short section is C8836. Harris and Whiteway (2011): part of of the main canyon are recognized a	s recognized as shelf incising canyon the north thlaweg and the upper part				

**NOTE**: This form should be forwarded, when completed:

- a) If the undersea feature is located <u>inside the external limit</u> 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 <u>outside the external limits</u> of the territorial sea:
  - to the IHO or to the IOC, at the following addresses :

International Hydrographic Organization (IHO)	Intergovernmental Oceanographic Commission (IOC)			
4b, Quai Antoine 1er	UNESCO			
B.P. 445	Place de Fontenoy			
MC 98011 MONACO CEDEX	75700 PARIS			
Principality of MONACO	<u>France</u>			
Fax: +377 93 10 81 40	Fax: +33 1 45 68 58 12			
E-mail: info@iho.int	E-mail: info@unesco.org			
Web: www.iho.int	Web: http://ioc-unesco.org/			

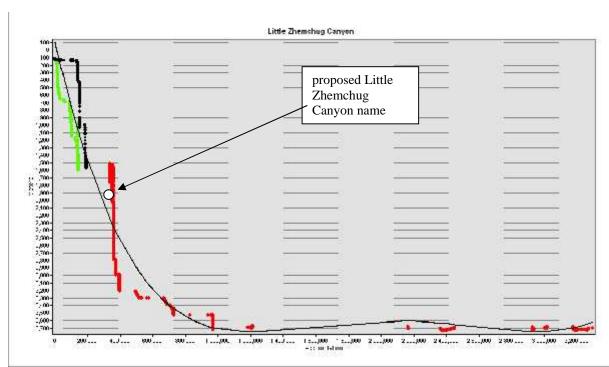


Figure 1. Plot of depth and accumulation of raster cells along main thalweg path (red points), north thalweg (green points), and east thalweg (black points) with fitted curve.

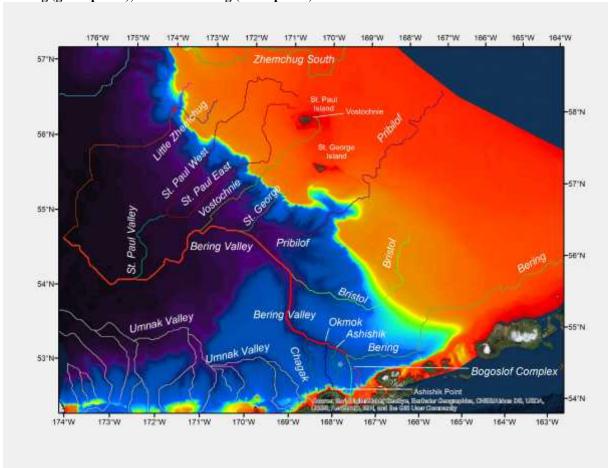


Figure 2. Modified version of Fig 7. (Zimmermann & Prescott, 2018) "Thalwegs of the Bering Canyon area of the eastern Bering Sea slope" showing proposed Little Zhemchug Canyon place name.