

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: Saint Paul Valley (new feature) **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 (3522 m) 55° 22.6'N | Long. (e.g. 046°21.3'W) Point (3522 m) 173° 03.7'W |
|--------------------------------|--|---|
| Line Start (3522 m) 55° 22.6'N | Line Start (3522 m) 173° 03.7'W | |
| Line Mid1 (3613 m) 54° 59.1'N | Line Mid1 (3613 m) 173° 36.1'W | |
| Line Mid2 (3639 m) 54° 44.6'N | Line Mid2 (3639 m) 173° 13.1'W | |
| Line End (3629 m) 54° 23.1'N | Line End (3629 m) 173° 21.8'W | |

Feature Description:

| | | | |
|-----------------|--------|------------------|---------------------------------|
| Maximum Depth: | 3629 m | Steepness : | 0.1° |
| Minimum Depth : | 3522 m | Shape : | U/V |
| Total Relief : | 107 m | Dimension/Size : | 149586 m long/ ~32000 m wide |

Associated Features: Bering canyons, Pribilof Island area canyons

Chart/Map References:

| | |
|-----------------------------|---------------------|
| Shown Named on Map/Chart: | |
| Shown Unnamed on Map/Chart: | US Nav. Chart 16006 |
| Within Area of Map/Chart: | |

Reason for Choice of Name (if a person, state how associated with the feature to be named):
Our proposed valley is not recognized by ACUF or GEBCO. We propose that this valley connects St. Paul East and West canyons to the Bering Valley, and therefore that it be named St. Paul Valley.

Discovery Facts:

| | |
|--------------------------------|------|
| Discovery Date: | 2018 |
| Discoverer (Individual, Ship): | 2018 |

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. 7 (please see below). Harris et al. (2014): feature recognized as "Abyss" and "Rise". Harris and Whiteway (2011): not recognized as a canyon. |
|----------|---|

NOTE: This form should be forwarded, when completed:

- 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);
- 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/ |
|--|--|

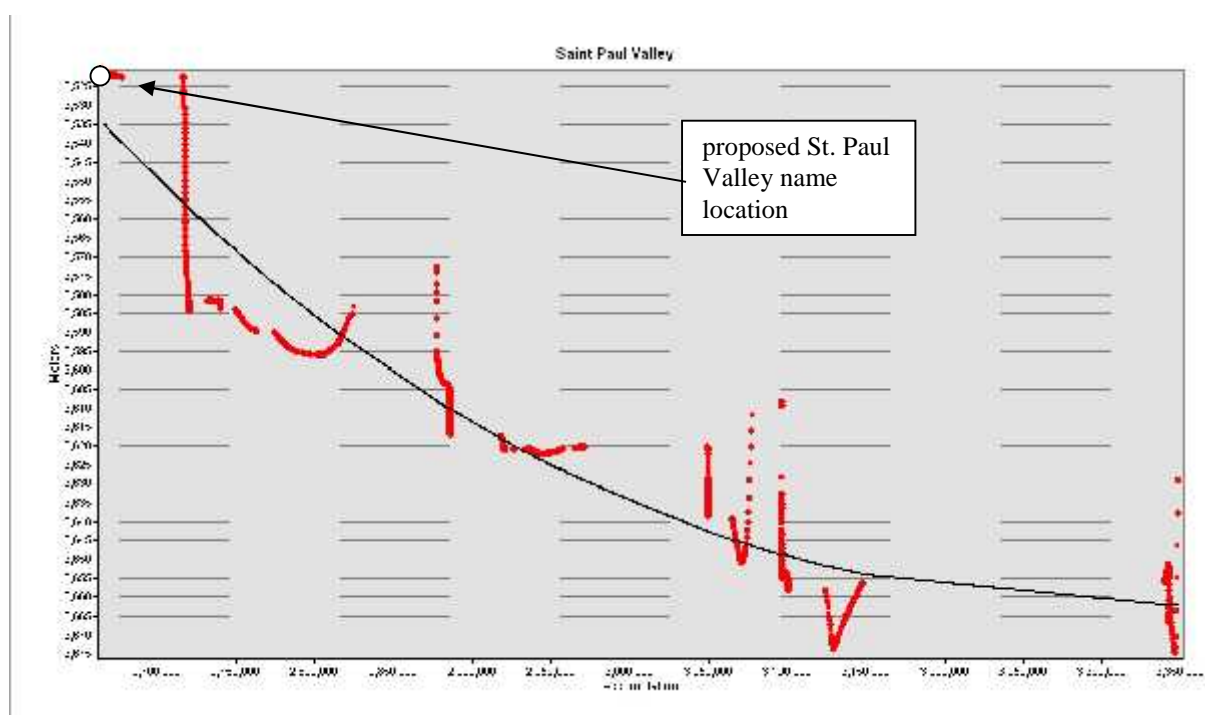


Figure 1. Plot of depth and accumulation of raster cells along main thalweg path, with fitted curve.

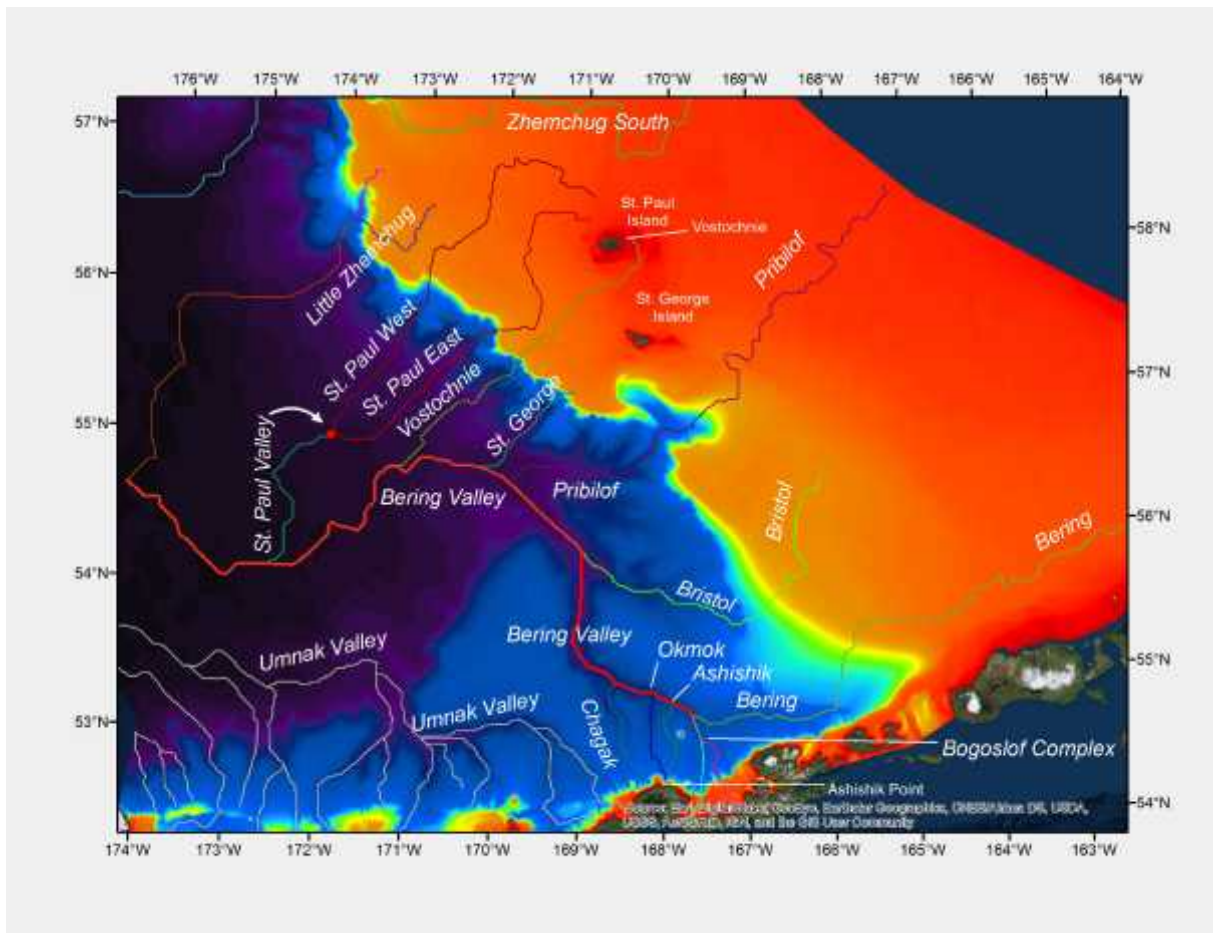


Figure 2. Modified version of Fig 7. (Zimmermann & Prescott, 2018) “Thalwegs of the Bering Canyon area of the eastern Bering Sea slope” showing proposed Saint Paul Valley place name.