

UNDERSEA FEATURE NAME PROPOSAL

(Sea NOTE overleaf)

Note: The boxes will expand as you fill the form.

| | | | |
|-----------------------|--------------------------|----------------------|---------------------------|
| Name Proposed: | Bonpland Seamount | Ocean or Sea: | South East Pacific |
|-----------------------|--------------------------|----------------------|---------------------------|

| | | | | | | |
|--|------|---------|-----------------|-----------------|--------------------|----------------------------|
| Geometry that best defines the feature (Yes/No) : | | | | | | |
| Point | Line | Polygon | Multiple points | Multiple lines* | Multiple polygons* | Combination of geometries* |
| No | No | Yes | No | No | No | No |

* 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 | (Summit) 36°28.952' S | (Summit) 086° 45.870' W |
| | 36.51754120° S | 86.71580907° W |
| | 36.47180090° S | 86.70621215° W |
| | 36.44660203° S | 86.75037846° W |
| | 36.47653612° S | 86.79002267° W |
| | 36.51533927° S | 86.76692834° W |

| | | | | |
|-----------------------------|-----------------|---------------|------------------|-------------------------------|
| Feature Description: | Maximum Depth: | 3880 m | Steepness : | 15,00% |
| | Minimum Depth : | 2767 m | Shape : | Steep oval shape |
| | Total Relief : | 1115 m | Dimension/Size : | 12 x 10 km² |

| | |
|-----------------------------|--|
| Associated Features: | |
|-----------------------------|--|

| | | |
|------------------------------|-----------------------------|--|
| Chart/Map References: | Shown Named on Map/Chart: | |
| | Shown Unnamed on Map/Chart: | |
| | Within Area of Map/Chart: | |

| | |
|--|--|
| Reason for Choice of Name (if a person, state how associated with the feature to be named): | <p>Aimé Jacques Alexandre Bonpland (29 August 1773 – 4 May 1858) was a French explorer and bontanist. Bonpland's real name was Goujaud, and he was born in La Rochelle, a coastal city in France. After serving as a Surgeon in the French army, and studying in Paris, he accompanied Alexander von Humboldt during five years of travel in Mexico, Colombia and the districts bordering on the Orinoco and Amazon rivers. In these explorations he collected and classified about 60 000 plants that were, until then, mostly unknown in Europe. He later described his finds in <i>Plantes equinoxiales</i> (Paris, 1808-1816)</p> <p>Many animals and plants are also named in his honor, including the squid <i>Grimalditeuthis bonplandi</i> and the orchid <i>Ornithocephalus bonplandi</i>.</p> |
|--|--|

| | | |
|-------------------------|--------------------------------|--|
| Discovery Facts: | Discovery Date: | January 1, 2011 |
| | Discoverer (Individual, Ship): | T. Dufek German RV Sonne Expedition SO213/1 |

| | | |
|--|-----------------|------------------------|
| Supporting Survey Data, including | Date of Survey: | January 1, 2011 |
|--|-----------------|------------------------|

| | | |
|------------------------|--|------------------------------------|
| Track Controls: | Survey Ship: | German RV Sonne Expedition SO213/1 |
| | Sounding Equipment: | SIMRAD EM120 |
| | Type of Navigation: | GPS |
| | Estimated Horizontal Accuracy (nm): | 0.05 |
| | Survey Track Spacing: | Single multibeam profile |
| | Supporting material can be submitted as Annex in analog or digital form. | |

| | | |
|---------------------|---|---|
| Proposer(s): | Name(s): | Prof. Dr. Hans Werner Schenke |
| | Date: | 5 July 2011 |
| | E-mail: | Hans-Werner.Schenke@AWI.de |
| | Organization and Address: | Alfred Wegener Institute for Polar and Marine Research POB 120161 27515 Bremerhaven Germany |
| | Concurrer (name, e-mail, organization and address): | |

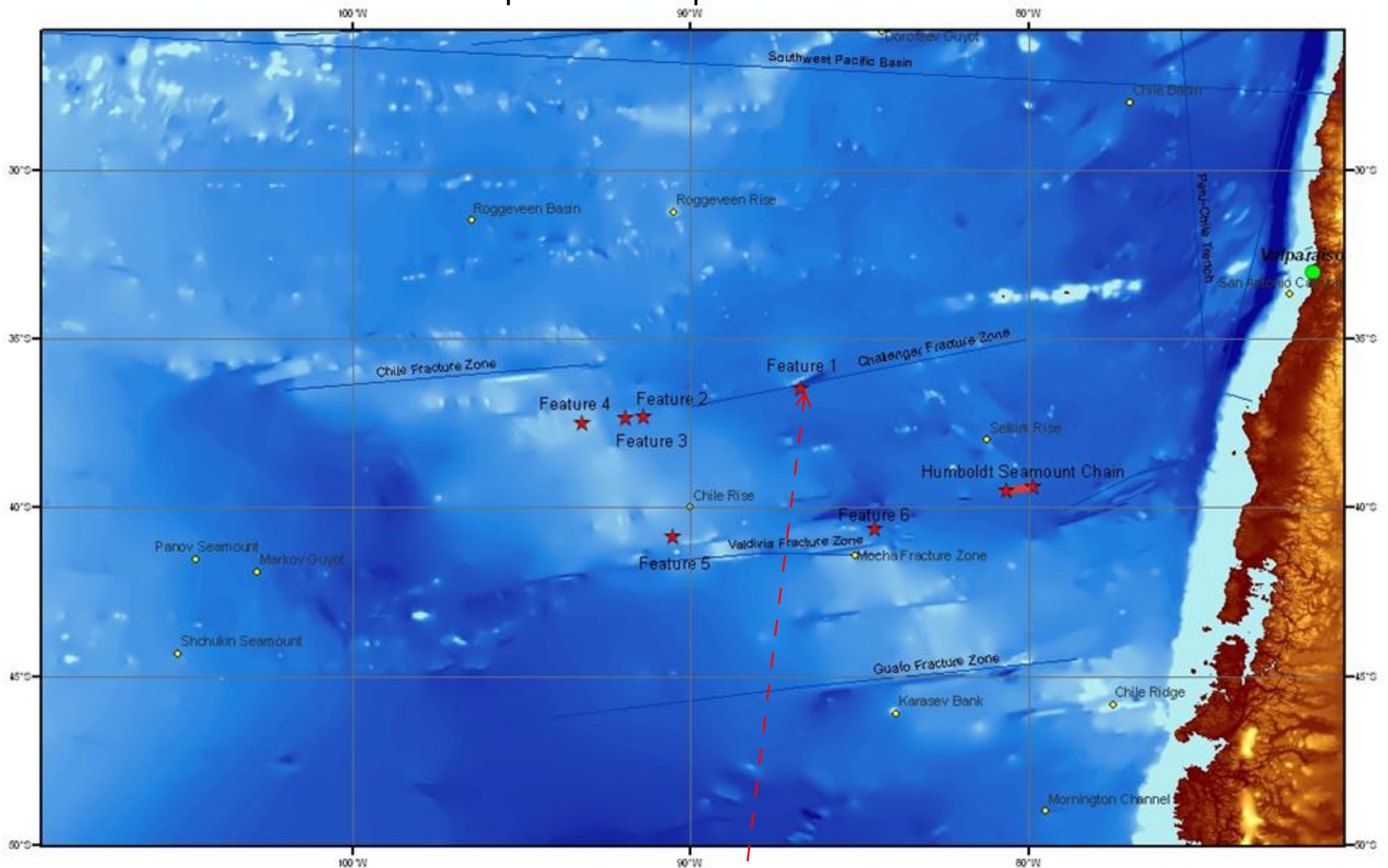
| | |
|-----------------|--|
| Remarks: | |
|-----------------|--|

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 page 2-9) or, if this does not exist or is not known, either to the IHB 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 IHB or to the IOC, at the following addresses :

| | |
|---|---|
| International Hydrographic Bureau (IHB) 4, Quai Antoine 1er B.P. 445 MC 98011 MONACO CEDEX <u>Principality of MONACO</u> Fax: +377 93 10 81 40 E-mail: info@ihb.mc | Intergovernmental Oceanographic Commission (IOC) UNESCO Place de Fontenoy 75700 PARIS <u>France</u> Fax: +33 1 45 68 58 12 E-mail: info@unesco.org |
|---|---|

SO213-1
27.12.2010 – 13.1.2011
Valparaiso – Valparaiso



Feature 1: Bonpland Seamount

Challenger Fracture Zone

Selkirk Rise

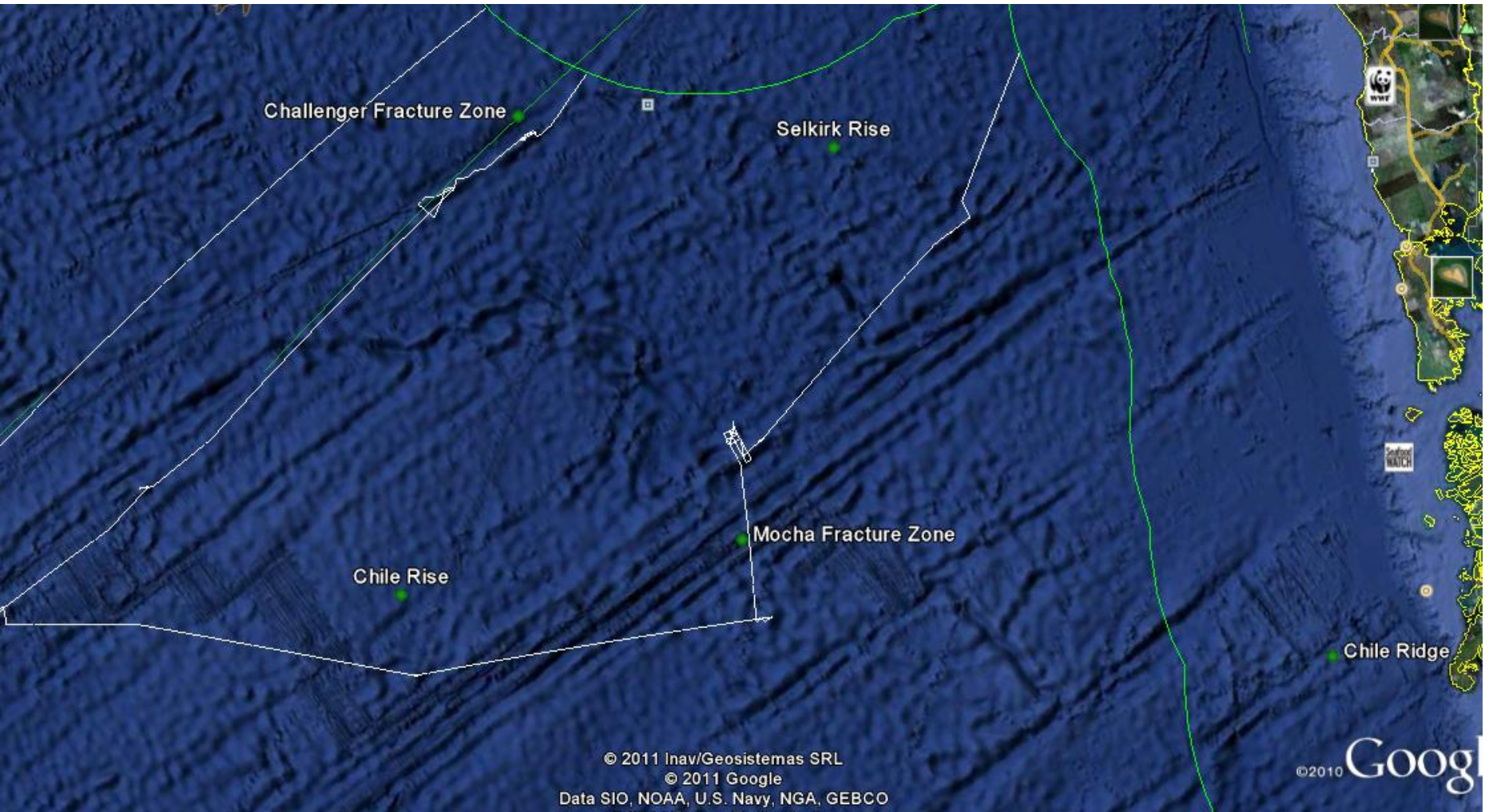
Chile Rise

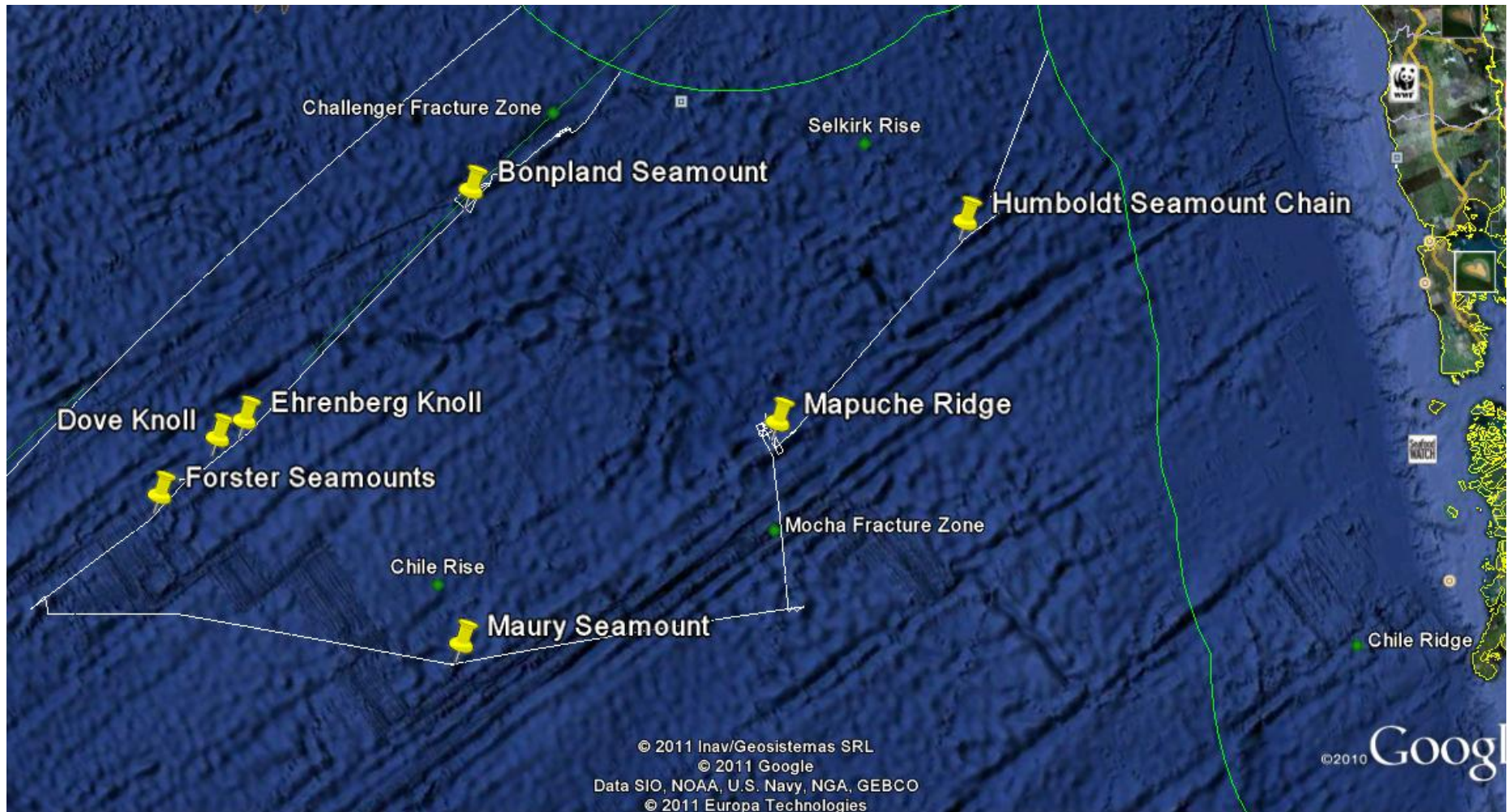
Mocha Fracture Zone

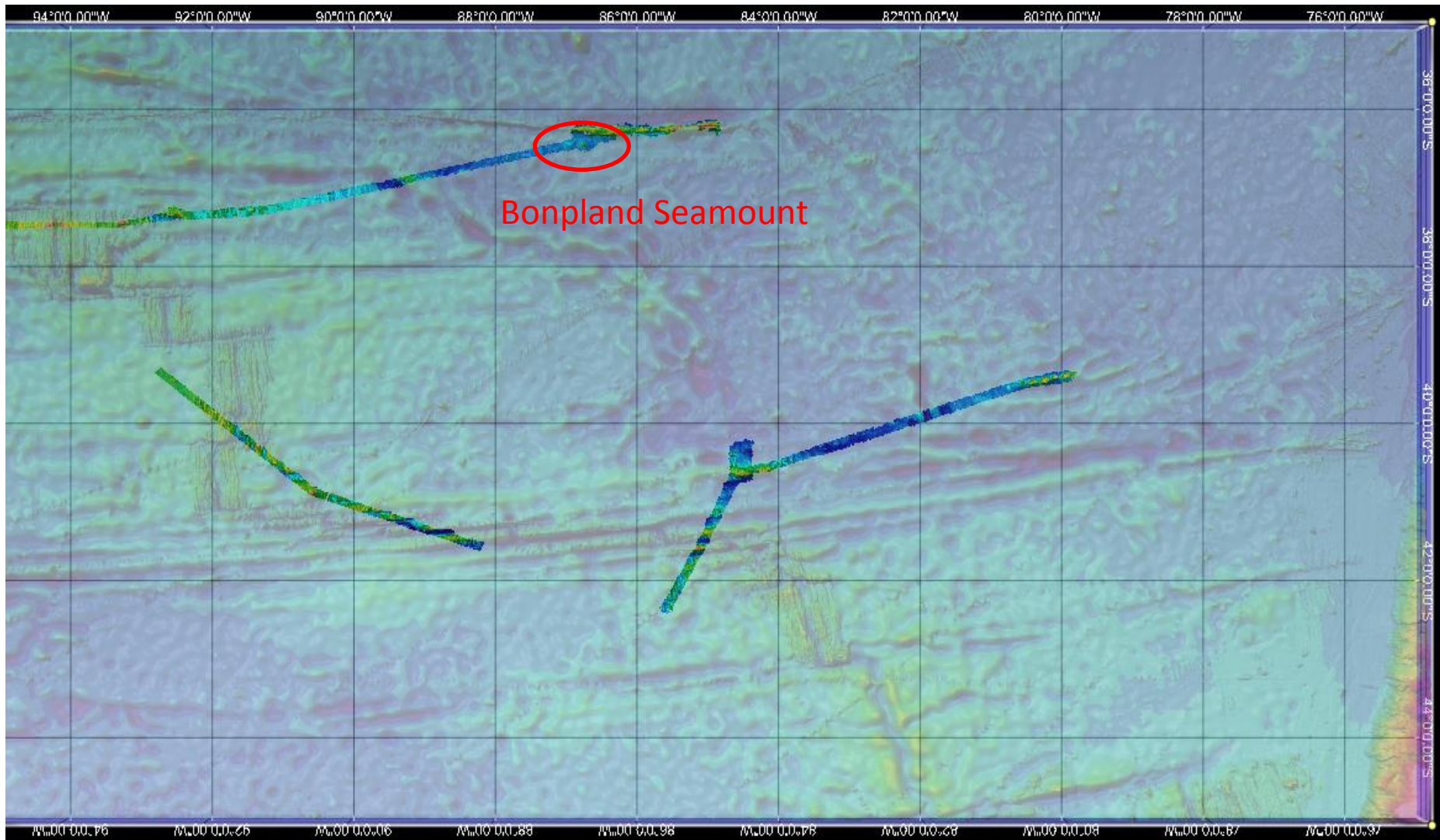
Chile Ridge

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Data SIO, NOAA, U.S. Navy, NGA, GEBCO

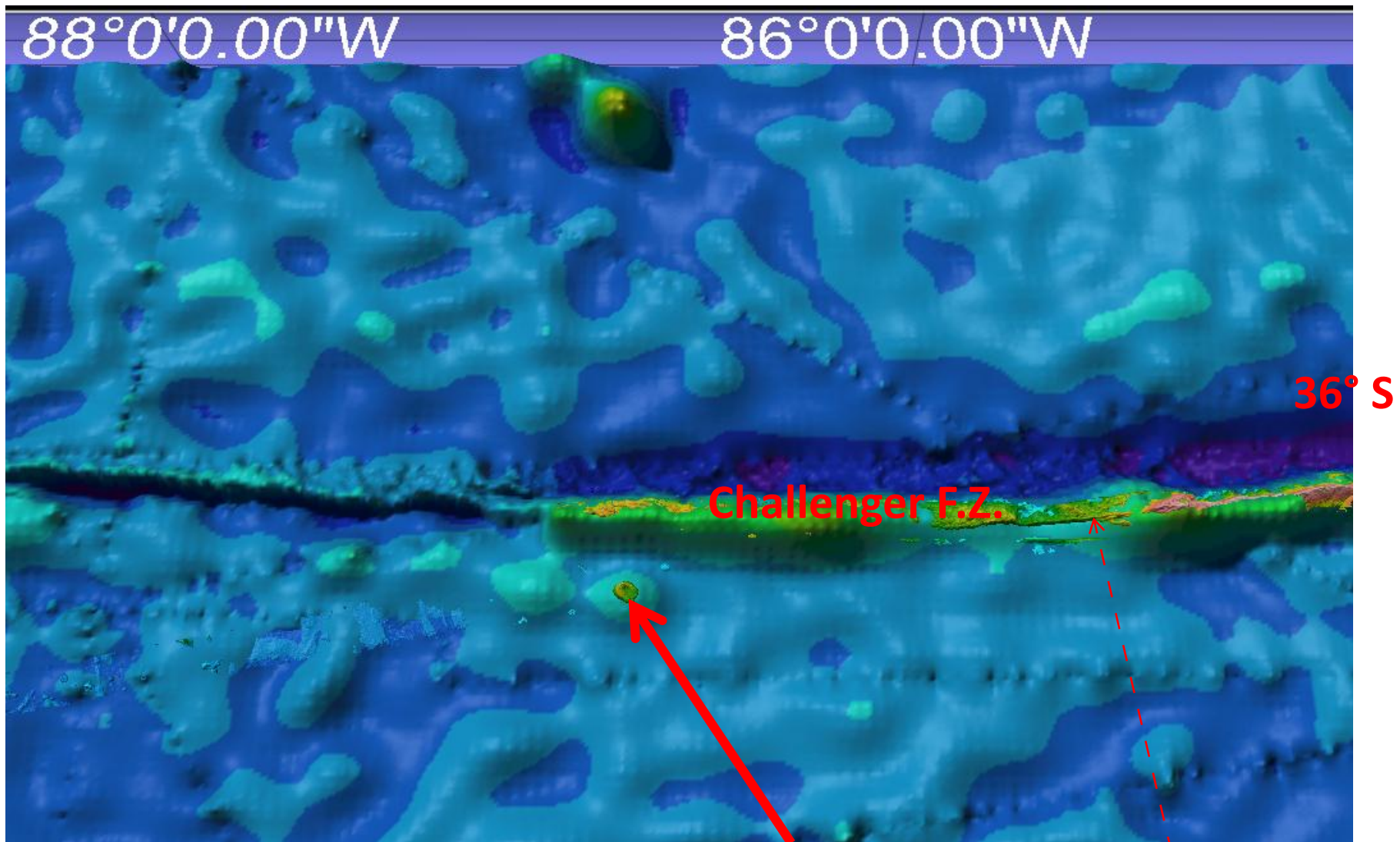
©2010 Google







MB tracks over GDA raster



GEBCO 2008 grid

Bonpland Seamount

SONNE MB-Swath

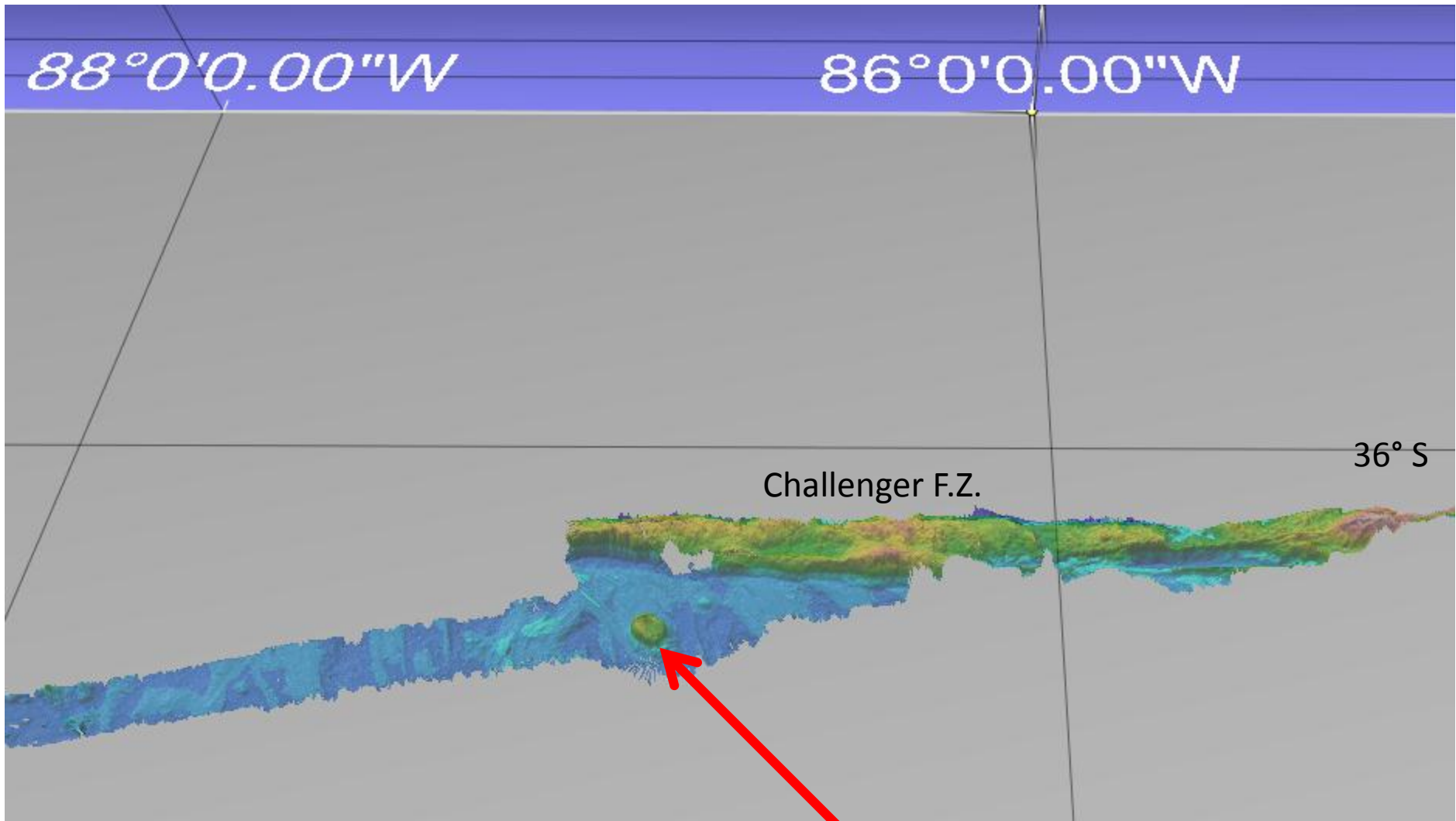
88°0'0.00"W

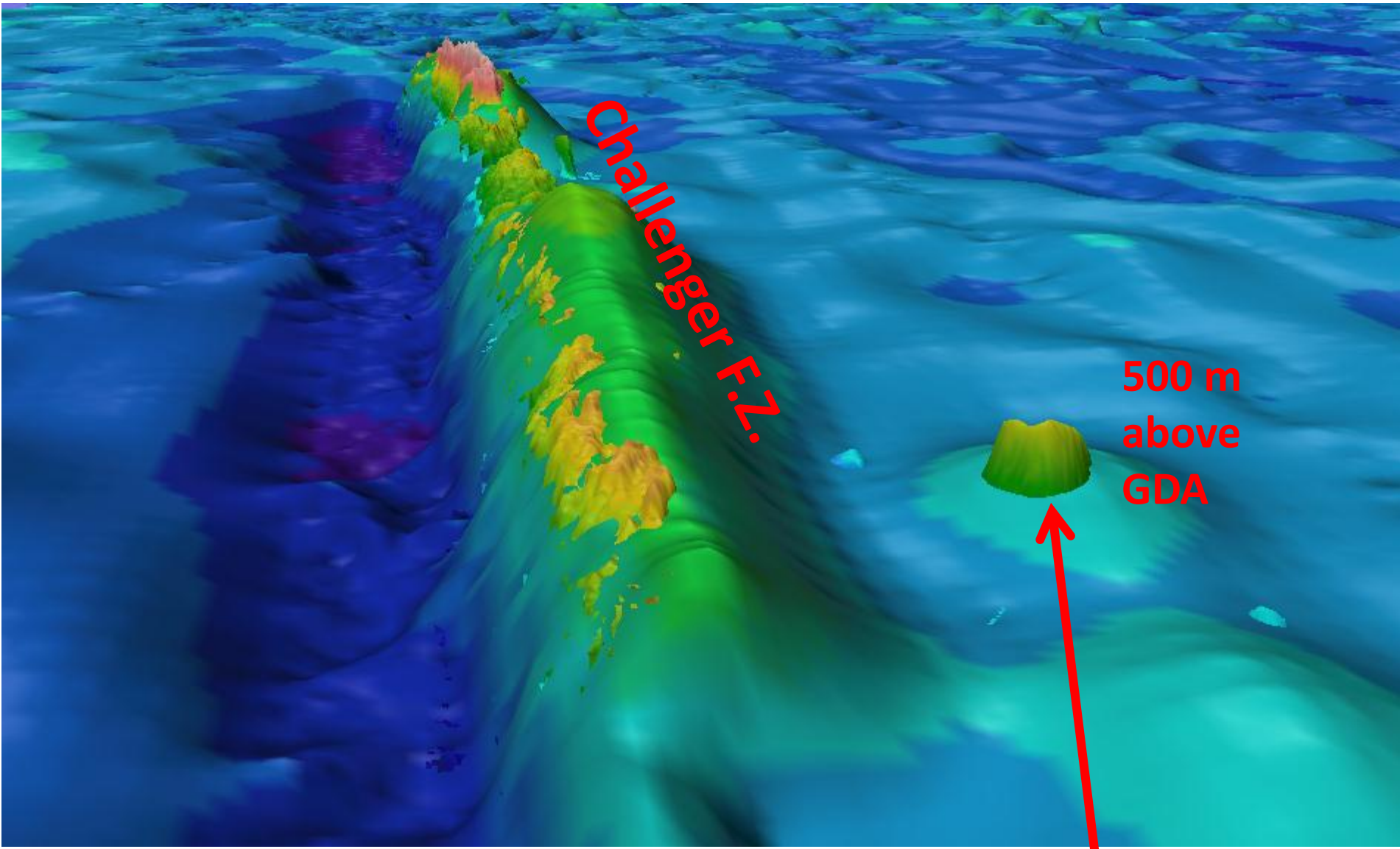
86°0'0.00"W

36° S

Challenger F.Z.

Bonpland Seamount

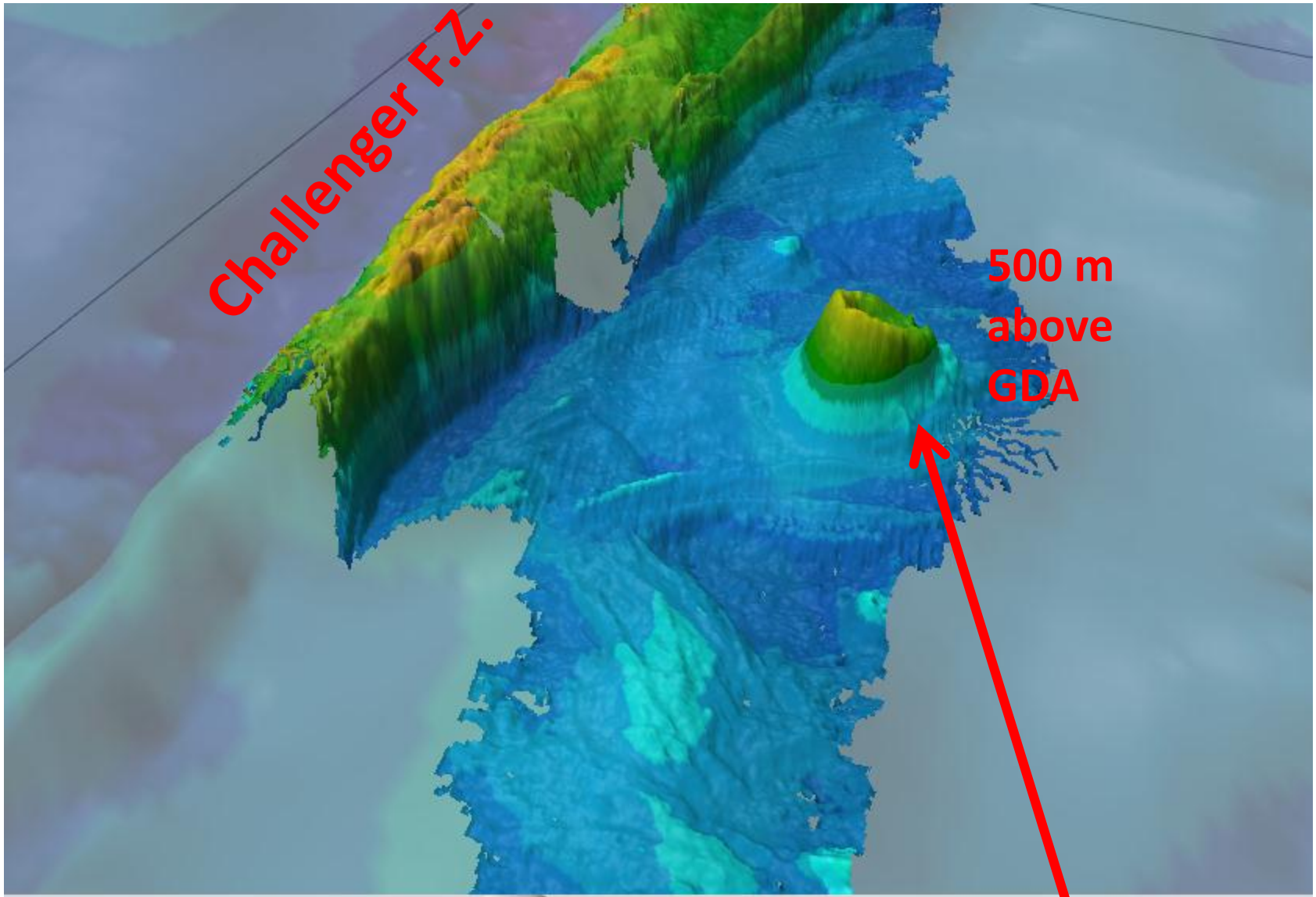




Challenger F.Z.

500 m
above
GDA

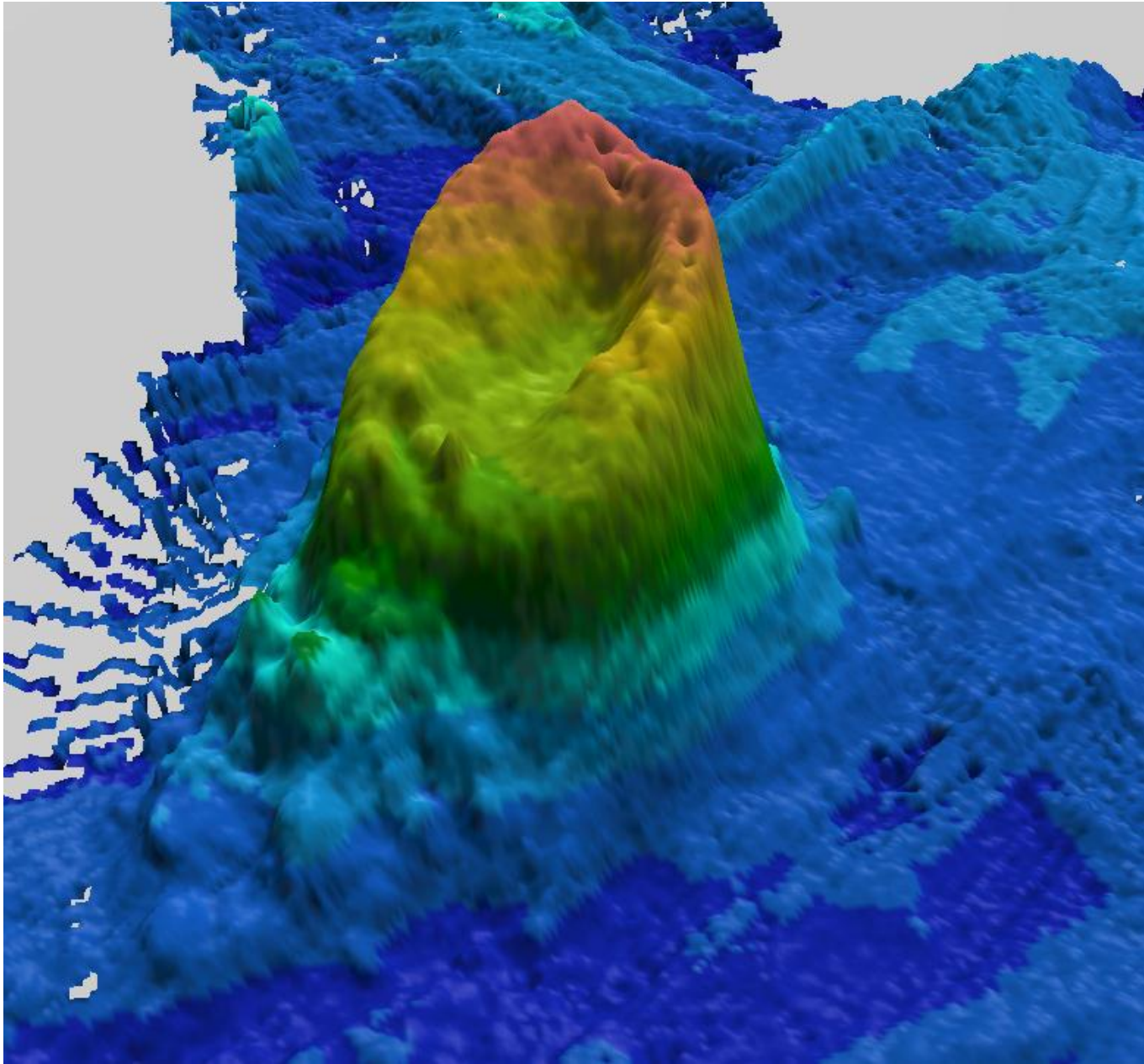
Bonpland Seamount



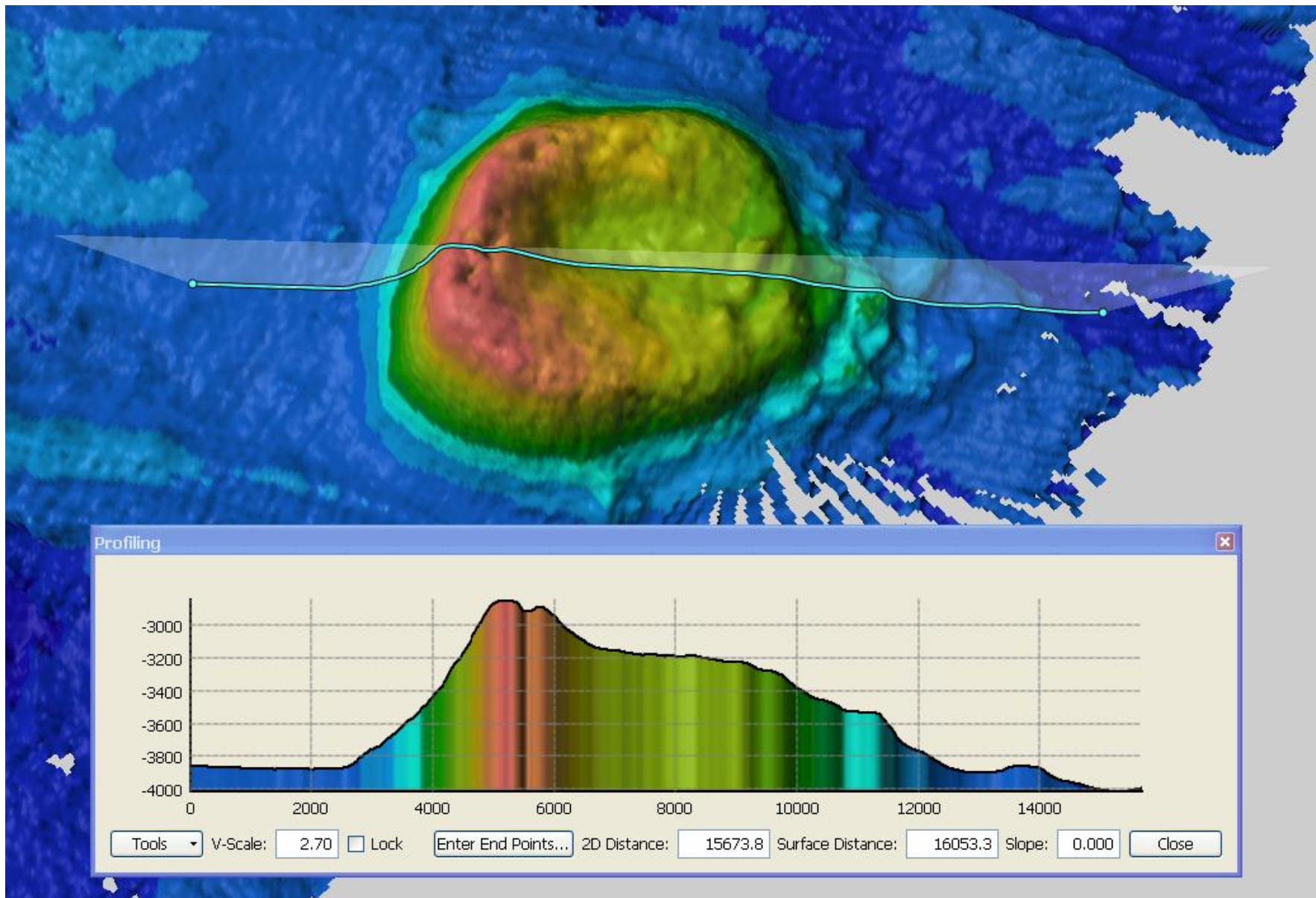
Challenger F.Z.

500 m
above
GDA

Bonpland Seamount

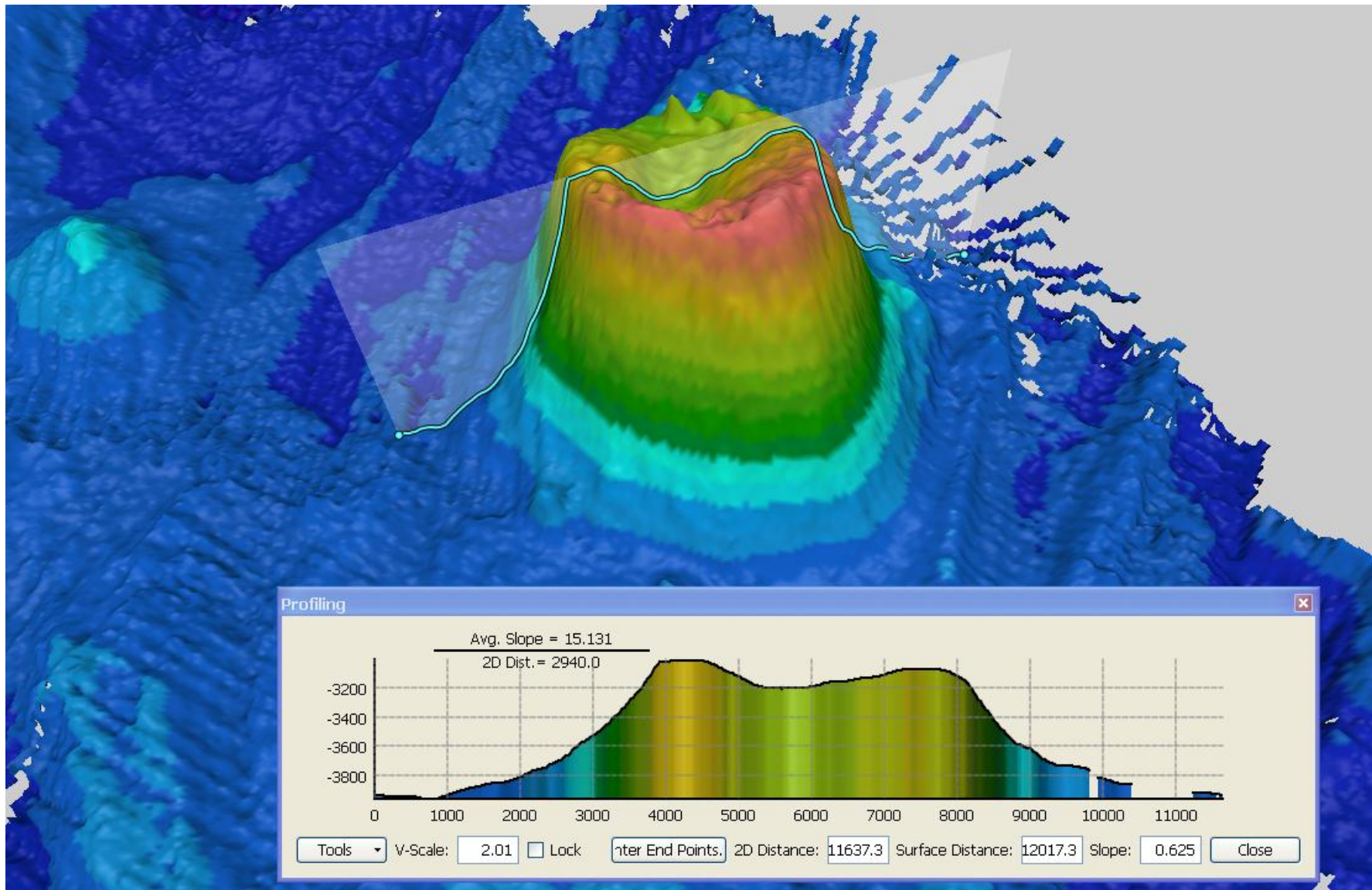


Bonpland Seamount



Crossprofile

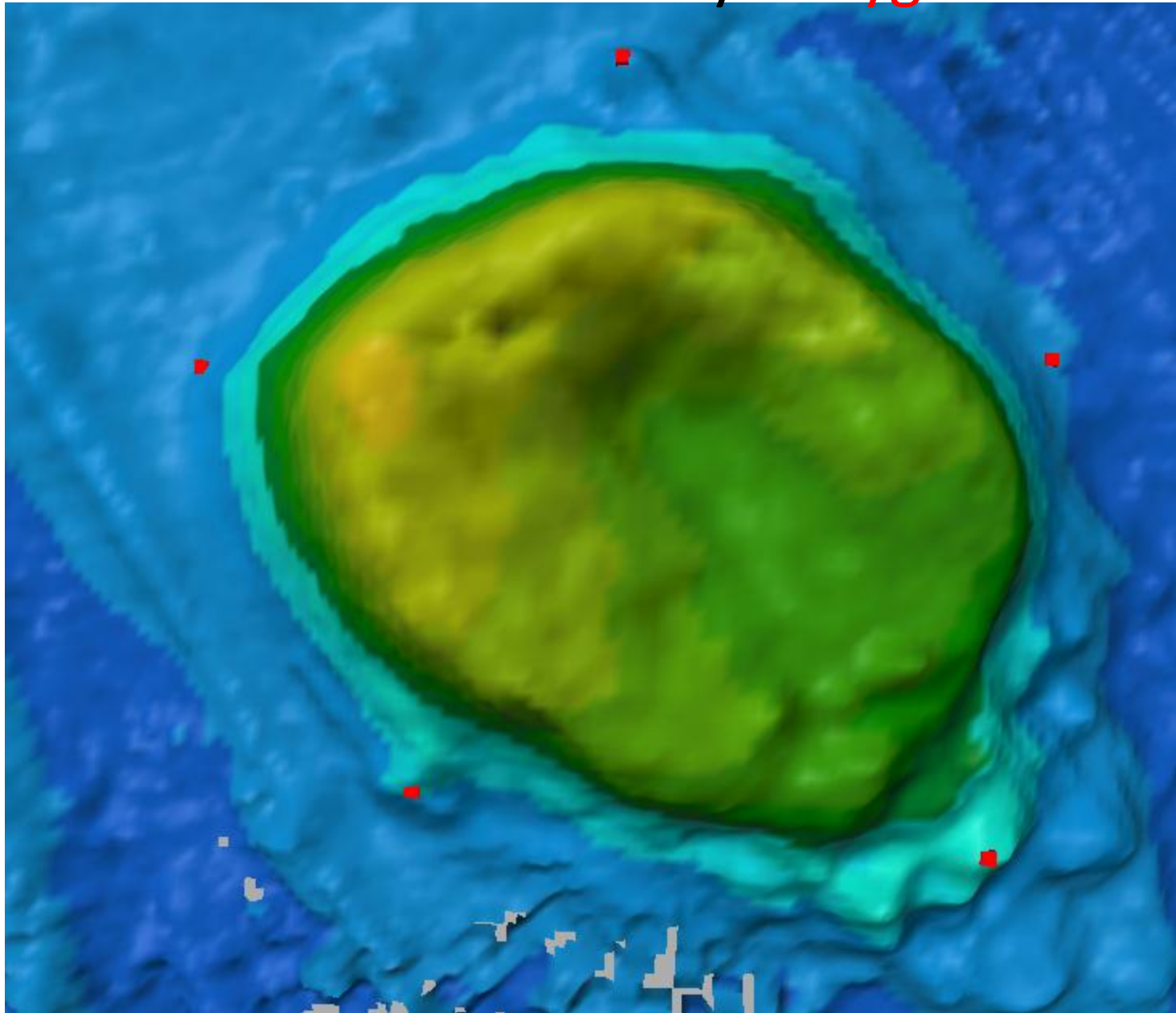
Bonpland Seamount



Steepest slope

Bonpland Seamount

Feature Geometry: Polygon



Polygon Bonpland Seamount