

UNDERSEA FEATURE NAME PROPOSAL

(Sea NOTE overleaf)

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

Name Proposed:	Cagou Trough	Ocean or Sea:	South Pacific Ocean
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Geometry that best defines the feature (Yes/No) :						
Point	Line	Polygon	Multiple points	Multiple lines*	Multiple polygons*	Combination of geometries*
	X					

* 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:	28°05'S (centre)	171°53'E (centre)
	29°52.33'S	171°48.88'E
	27°15.43'S	171°56.52'E

Feature Description:	Maximum Depth:	4500	Steepness :	
	Minimum Depth :	2000	Shape :	Trough
	Total Relief :	1500	Dimension/Size :	290 x 30 km

Associated Features:	No other features in the NZGB's jurisdiction are named 'Cagou'.
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Chart/Map References:	Shown Named on Map/Chart: Named in an internationally peer reviewed journal	Mauffret, A., Symonds, P., Benkhellil, J., Bemardel, G., Buchanan, C., D'Acremont, E., Gorini, C., Lafoy, Y., Nercessian, A., Ryan, J., Smith, N. & Van de Beuque, S., 2001. Collaborative Australia /France Multibeam Seafloor Mapping Survey - Norfolk Ridge to Three Kings Ridge Region: FAUST-2, Preliminary Results. Geoscience Australia Record 2001/27. ISSN 1039-0073, ISBN 0642467064. https://d28rz98at9flks.cloudfront.net/37142/Rec2001_027.pdf
		Sdrolias M., R. D. Müller, A. Mauffret, and G. Bernardel (2004), Enigmatic formation of the Norfolk Basin, SW Pacific: A plume influence on back-arc extension, <i>Geochem. Geophys. Geosyst.</i> , 5, Q06005, doi:10.1029/2003GC000643.
		Mortimer N., Herzer R.H., Gans P.B., Laporte-Magoni C., Calvert C.T., Bosch D., (2007). Oligocene–Miocene tectonic evolution of the South Fiji Basin and Northland Plateau, SW Pacific Ocean: Evidence from petrology and dating of dredged rocks
	Shown Unnamed on Map/Chart:	
	Within Area of Map/Chart:	Chart NZ 14602 INT 602

Reason for Choice of Name (if a person, state how associated with the feature to be named):	Named after the national bird of New Caledonia.
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Discovery Facts:	Discovery Date:	1957
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	Discoverer (Individual, Ship):	RV Vityaz
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Supporting Survey Data, including Track Controls:	Date of Survey:	Nov/Dec 1999
	Survey Ship:	N/O l'Atalente
	Sounding Equipment:	Simrad EM12D
	Type of Navigation:	GPS
	Estimated Horizontal Accuracy (nm):	100m
	Survey Track Spacing:	c. 15 km
Supporting material can be submitted as Annex in analog or digital form.		

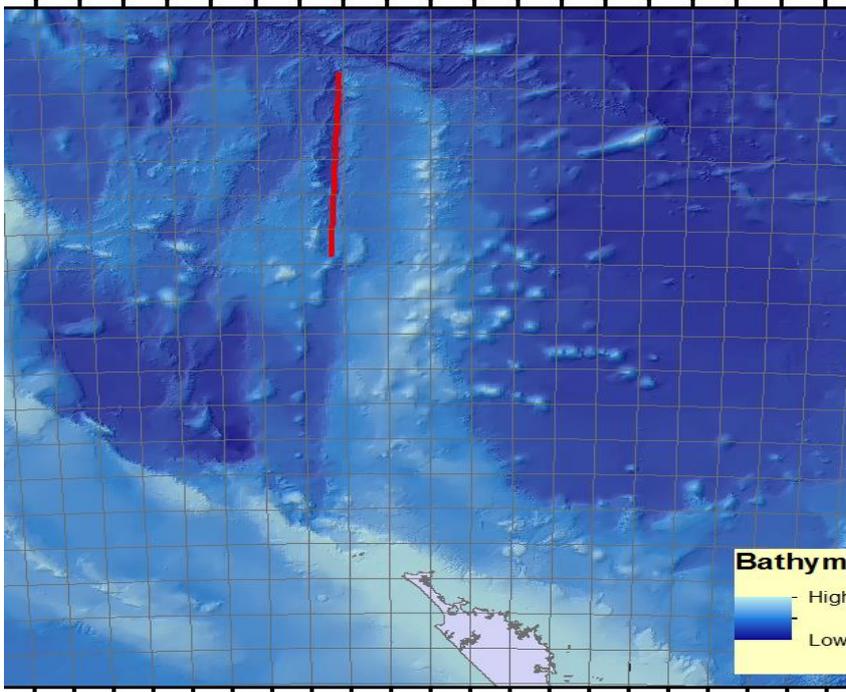
Proposer(s):	Name(s):	Mr Mark Dyer (Chairperson of the NZGB) & Mr Adam Greenland (National Hydrographer)
	Date:	27 June 2016
	E-mail:	markdyer@linz.govt.nz
	Organization and Address:	New Zealand Geographic Board PO Box 5501 Wellington 6145 New Zealand
	Concurrer (name, e-mail, organization and address):	Dr Vaughan Stagpoole V.Stagpoole@gns.cri.nz GNS Science PO Box 30 368 Lower Hutt 5040 New Zealand

Remarks:	The New Zealand Geographic Board adopted Cagou Trough as an official undersea feature name on 26 May 2016.
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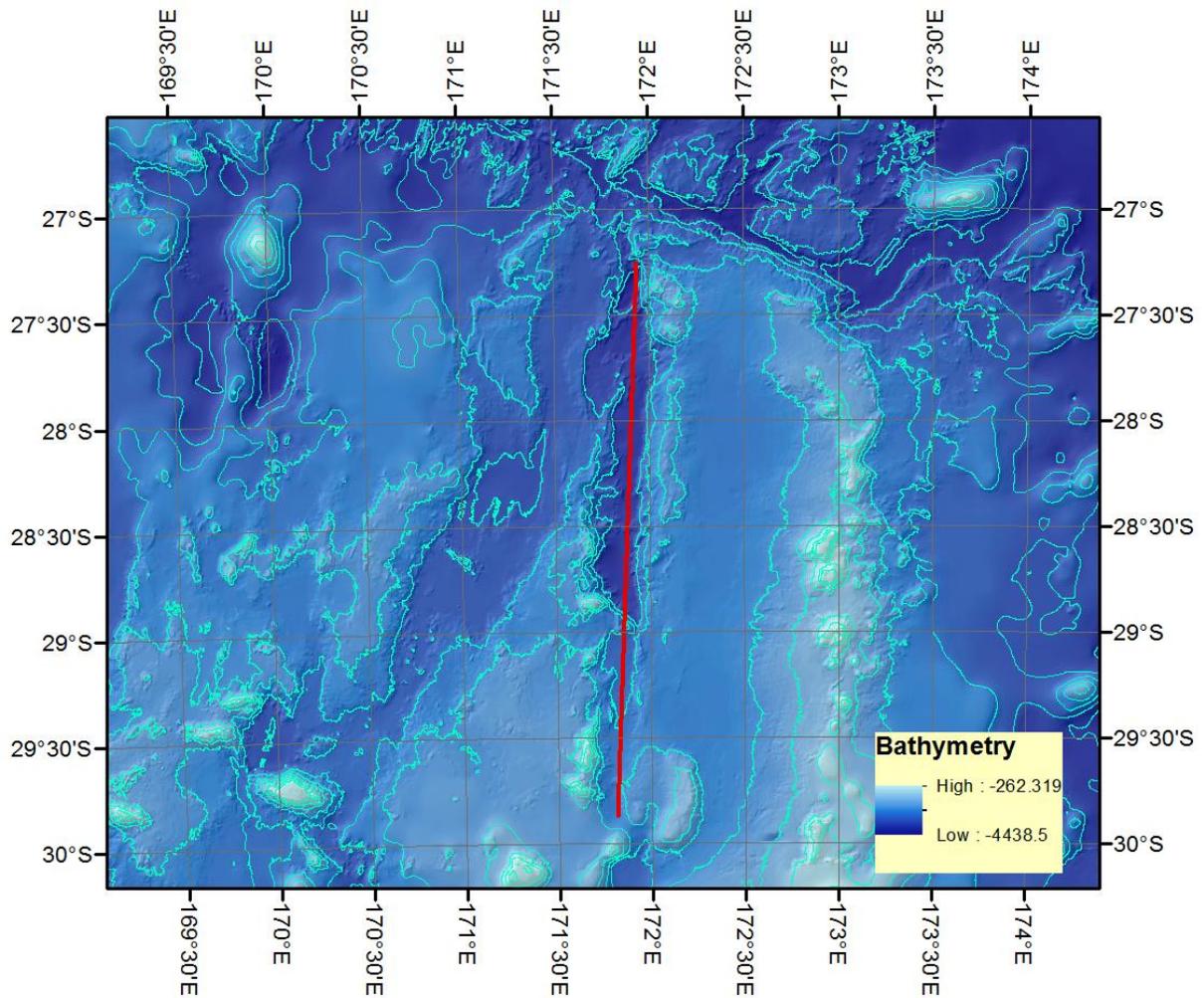
NOTE : This form should be forwarded, when completed :

- 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 :

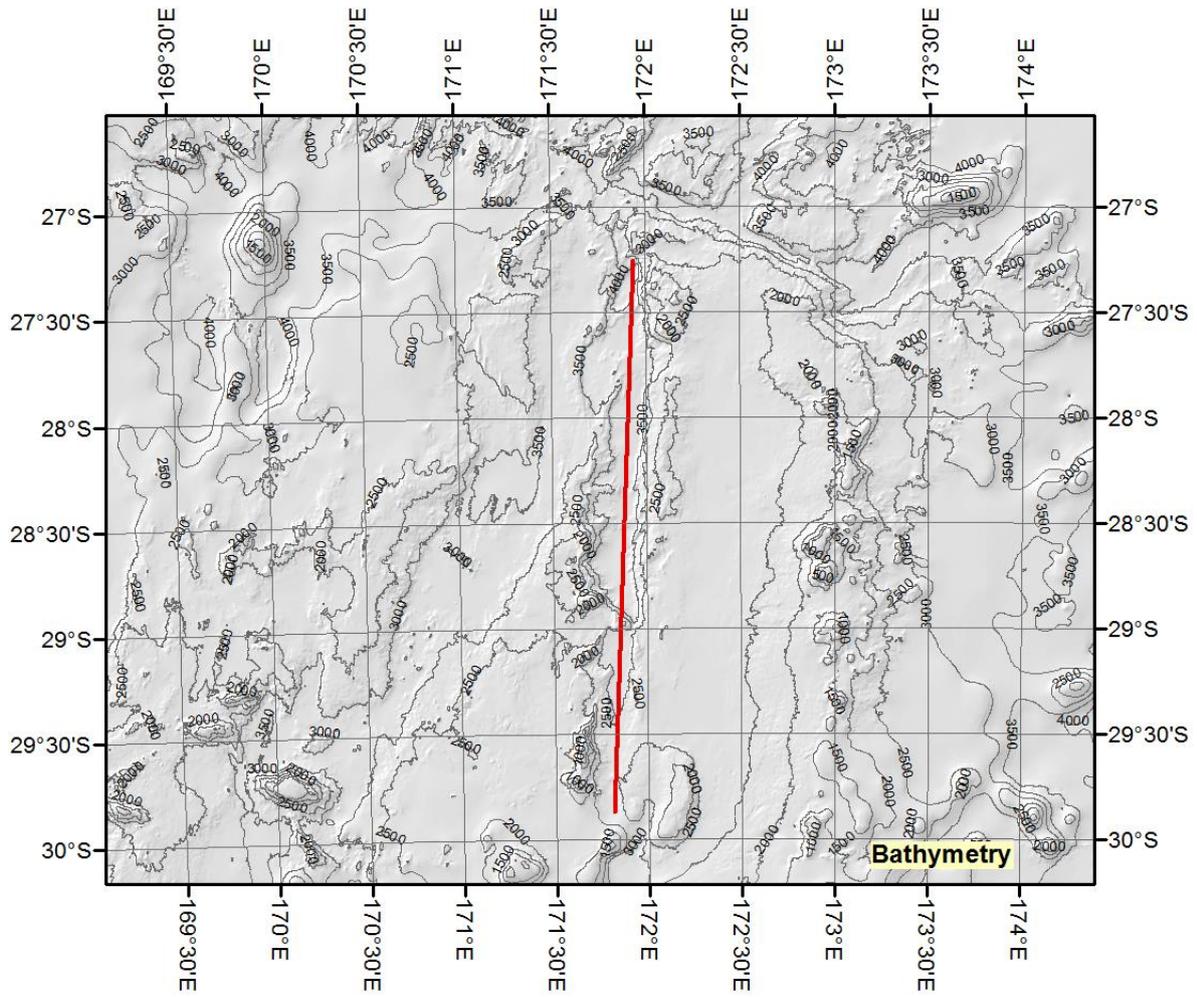
International Hydrographic Bureau (IHB) 4, Quai Antoine 1er B.P. 445 MC 98011 MONACO CEDEX Principality of MONACO Fax: +377 93 10 81 40 E-mail: info@ihb.mc	Intergovernmental Oceanographic Commission (IOC) UNESCO Place de Fontenoy 75700 PARIS France Fax: +33 1 45 68 58 12 E-mail: info@unesco.org
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Location map showing Cagou Trough (red Line) with respect to northern New Zealand



Bathymetry of Cagou Trough (250m grid) and Polyline showing the feature.



Bathymetry contours on hillshade background

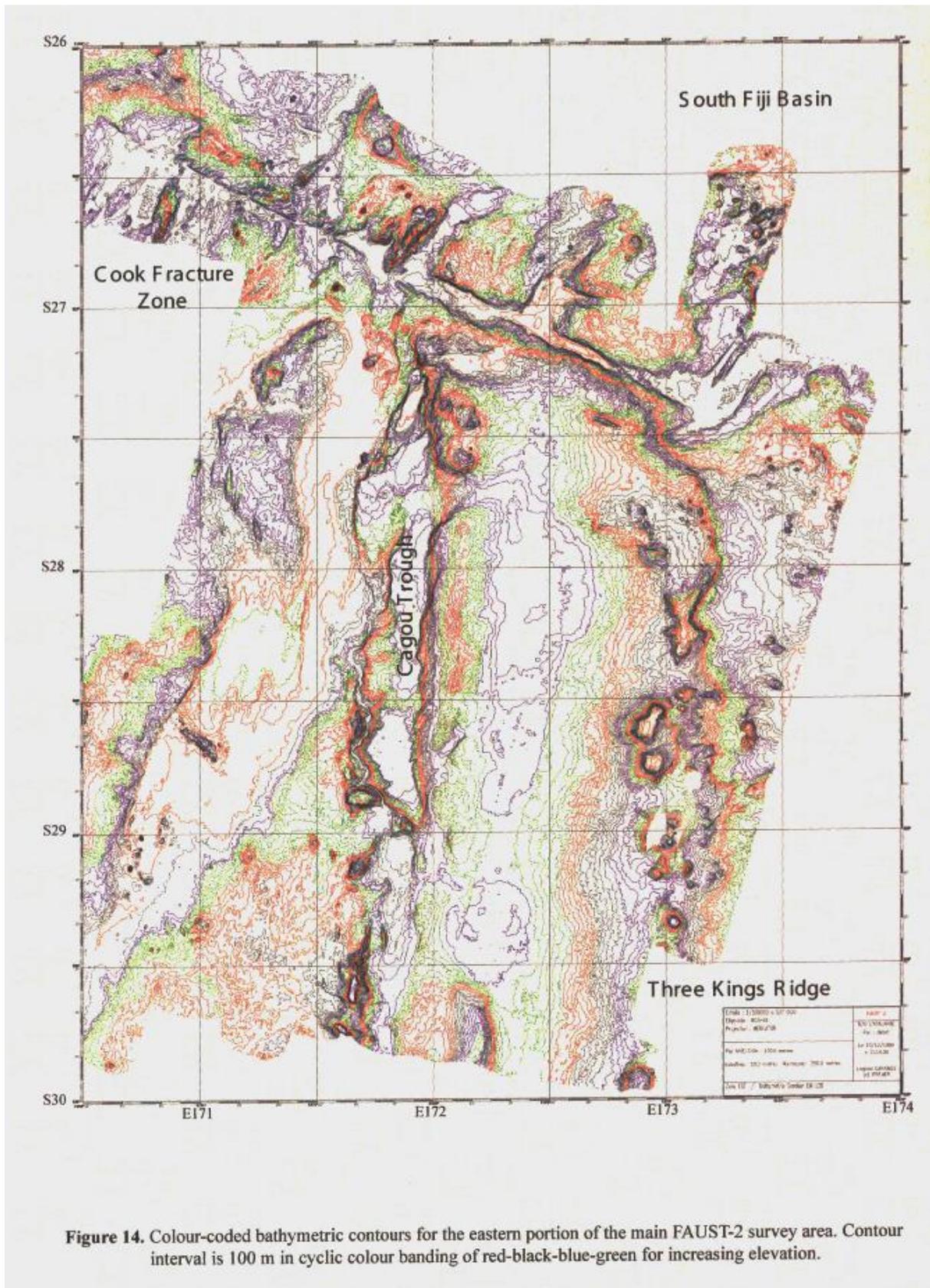
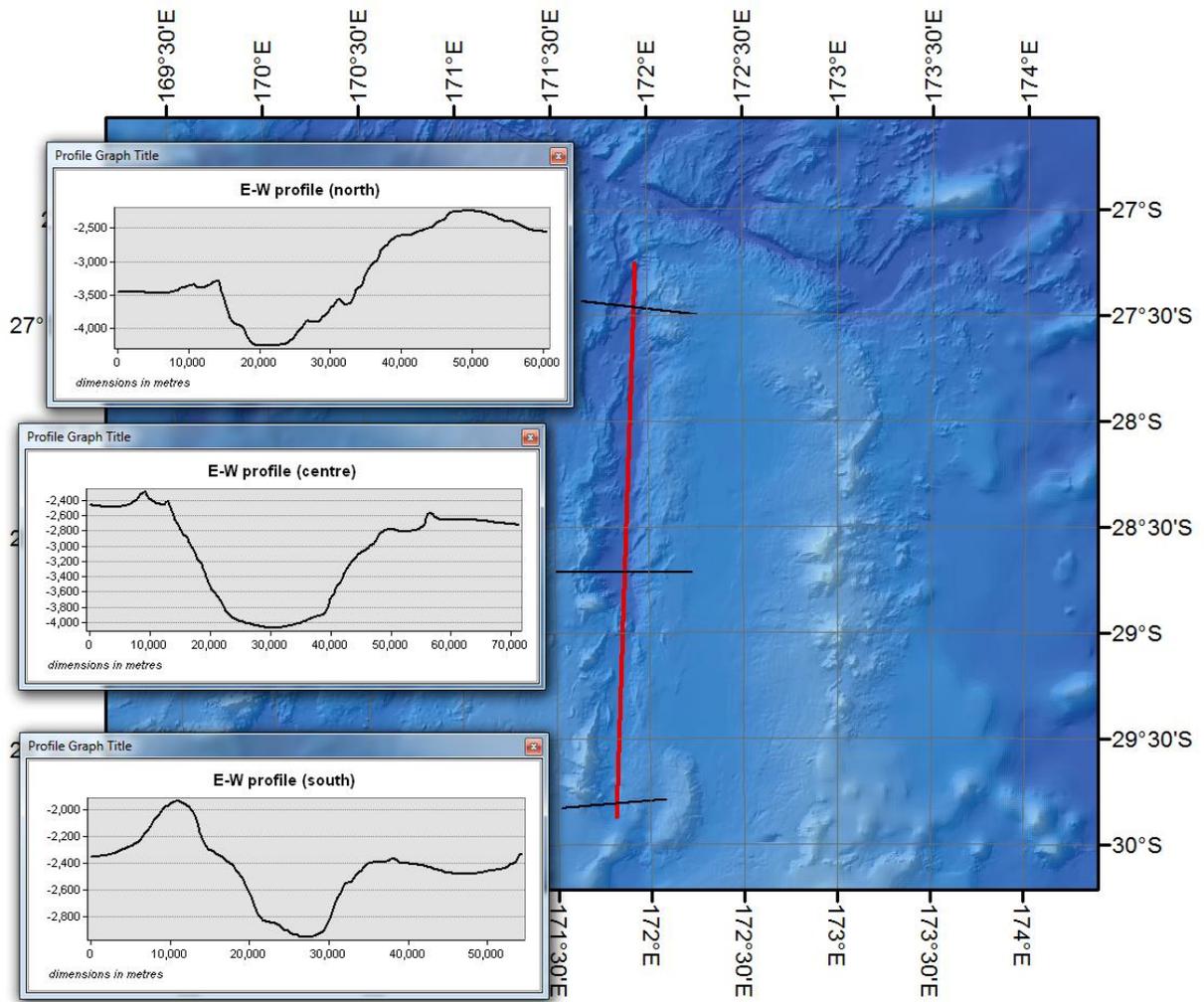


Figure 14 of Mauffre et al 2001 showing bathymetry contours in detail.



Profiles of Cagou Trough (dimensions in metres).

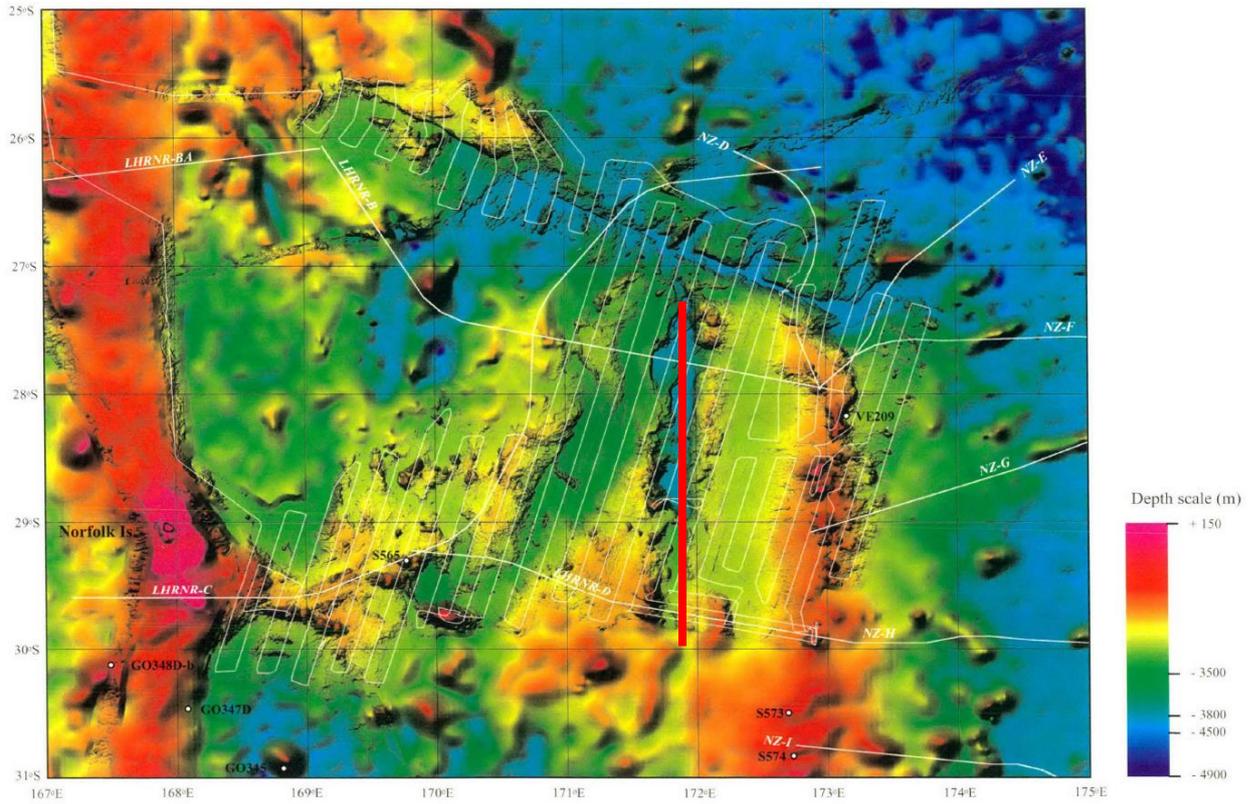


Figure 6. Hill-shaded image of merged swath and predicted bathymetry in the main FAUST-2 survey area. Also shown are FAUST-2 tracks (white) along with AGSO Survey 177 deep-seismic (labelled white lines). Dredge sites are also marked and labelled (see Table 1).

Fig. 5 of Mauffret et al. 2000 showing 100% swath line coverage over the area of the Cagou Trough (Red line).

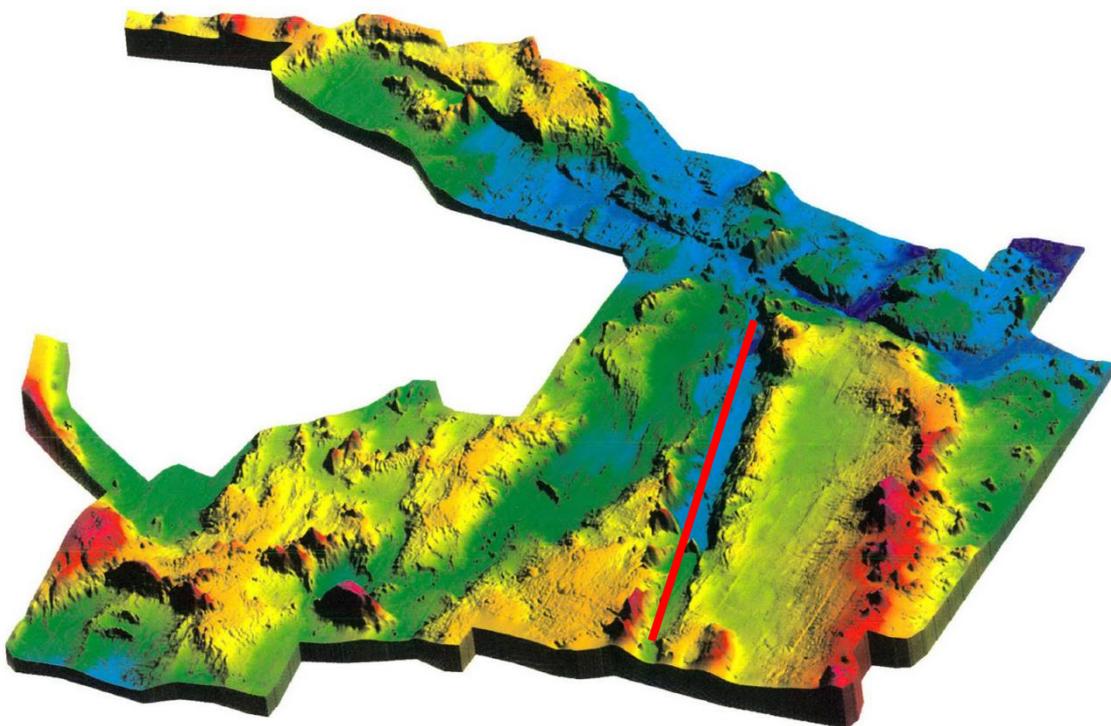


Figure 9. 3D perspective view from the south-southeast of the main FAUST-2 swath-mapped survey area between the Norfolk Ridge to the west, the Three Kings Ridge to the east and the Cook Fracture Zone to the north.

Fig. 5 of Mauffret et al. 2000. The Cagou Trough is highlighted by the red line.

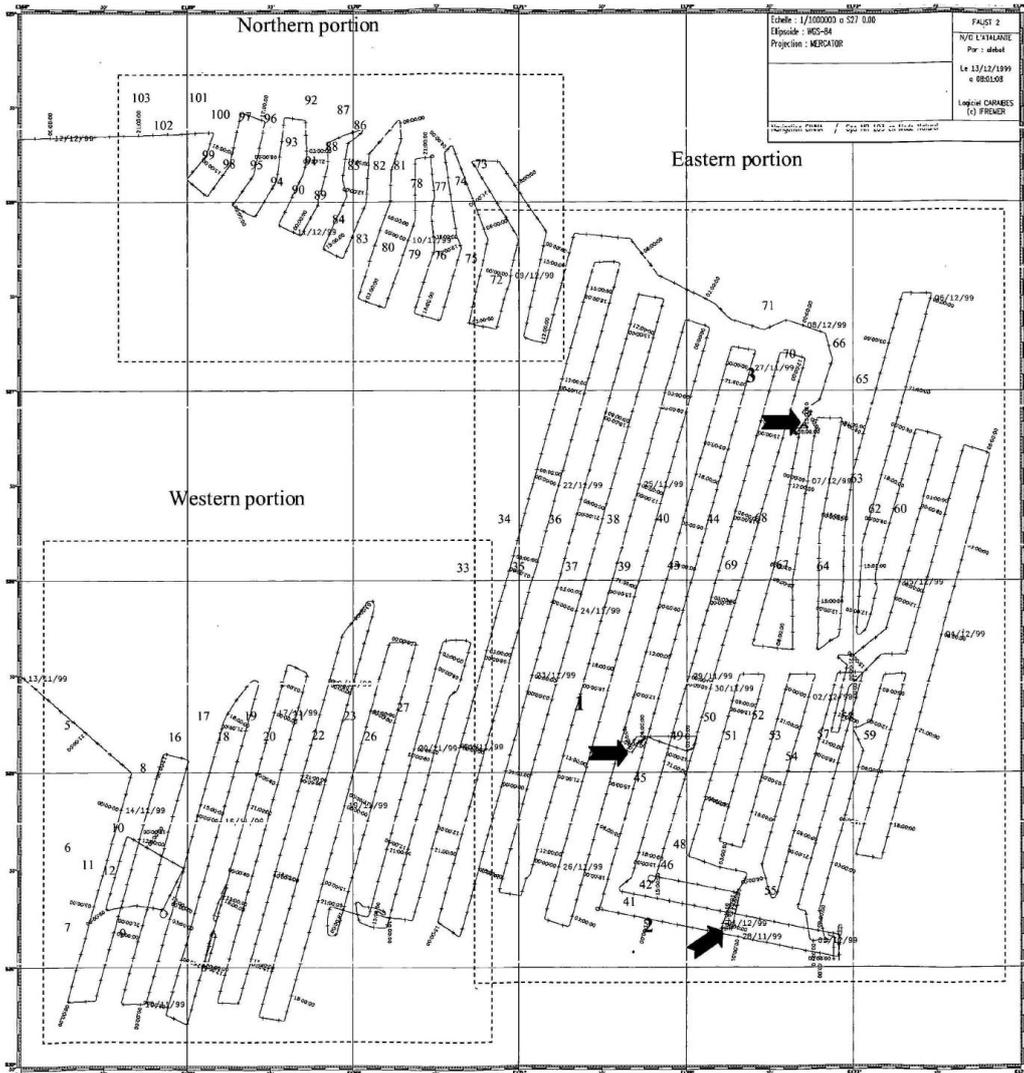


Figure 11. Track map of the main FAUST-2 survey area east of Norfolk Island. Dredge sites are marked with large arrows, seismic profiles are numbered and the dashed boxes outline the partitioning, for descriptive purposes, of the main FAUST-2 survey area (see text).
 Fig. 11 of Mauffret et al. 2000.

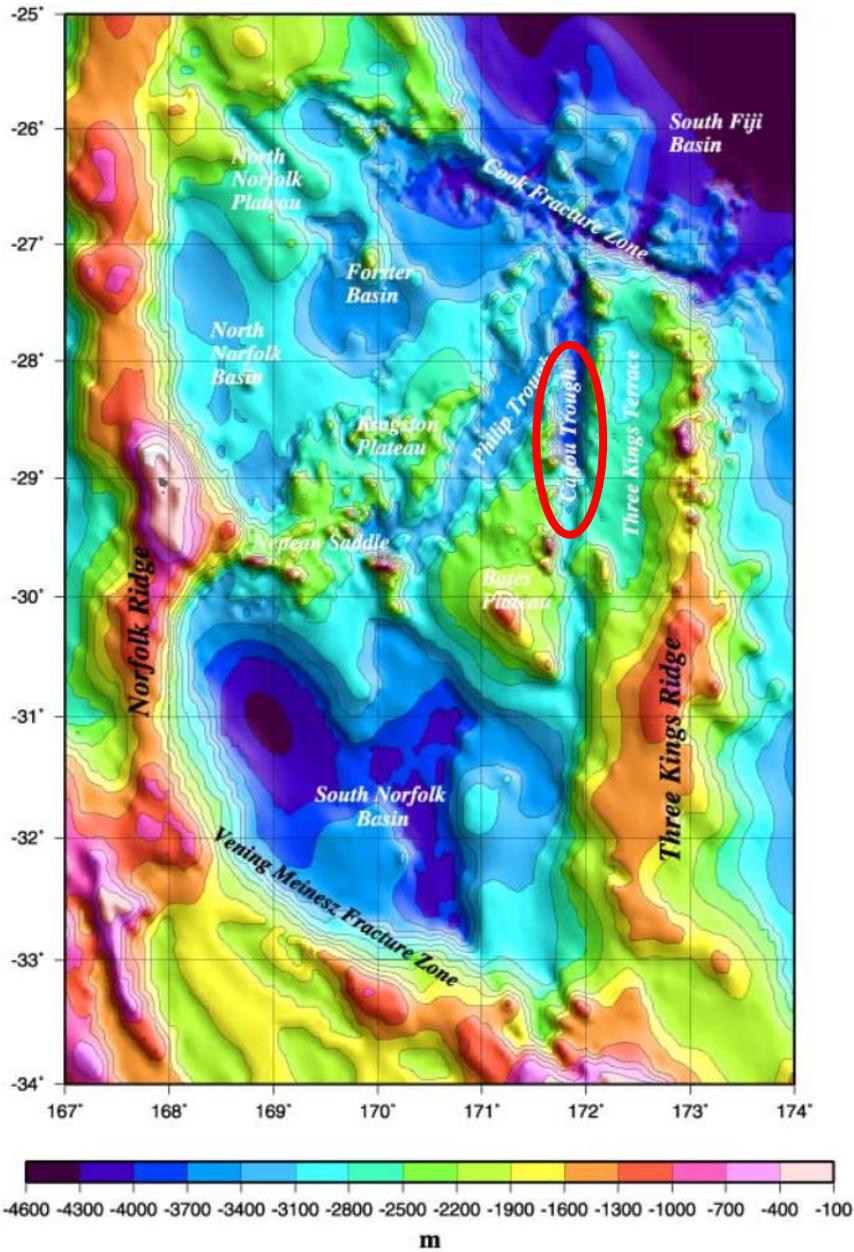


Fig 5 of Sdrolias M., R. D. Müller, A. Mauffret, and G. Bernardel (2004), Enigmatic formation of the Norfolk Basin, SW Pacific: A plume influence on back-arc extension, *Geochem. Geophys. Geosyst.*, 5, Q06005, doi:10.1029/2003GC000643.