

**UNDERSEA FEATURE NAME PROPOSAL**  
(See IHO-IOC Publication B-6 and **NOTE** overleaf)

<b>Name Proposed:</b>	Monowai Caldera	<b>Ocean or Sea:</b>	South Pacific Ocean
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<b>Geometry</b> that best defines the feature (Yes/No) :						
Point	Line	Polygon	Multiple points	Multiple lines*	Multiple polygons*	Combination of geometries*
		<b>x</b>				

\* Geometry should be clearly distinguished when providing the coordinates below.

	Lat. (e.g. 63°32.6'N)	Long. (e.g. 046°21.3'W)
<b>Point Coordinates**:</b>	25°48'S	177°08.4'W
<b>Coordinates:</b>	25°45.63'S	177°08.83'W
	25°47.16'S	177°06.29'W
	25°49.48'S	177°05.70'W
	25°50.90'S	177°07.04'W
	25°51.00'S	177°08.29'W
	25°50.25'S	177°10.23'W
	25°49.19'S	177°11.48'W
	25°48.39'S	177°11.63'W
	25°47.34'S	177°12.91'W
	25°46.68'S	177°12.79'W
	25°46.35'S	177°11.24'W

<b>Feature Description:</b>	Maximum Depth:	1627m	Steepness :	
	Minimum Depth :	620m	Shape :	Roughly circular
	Total Relief :	1007m	Dimension/Size :	~9x8 km

<b>Associated Features:</b>	Monowai Seamount ( <b>NOTE: SCUFN to confirm that on the basis of the polygon that Dr Stagpoole resubmitted to SCUFN in June 2017 that it has altered Monowai Seamounts to Monowai Seamount. Monowai Caldera had originally been included in the larger polygon).</b> )
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<b>Chart/Map References:</b>	<del>Shown Named on Map/Chart:</del> Named in internationally peer reviewed journals	Wright, Ian C, William W Chadwick Jr, Cornel EJ de Ronde, Dominique Reymond, Oliver Hyvernaud, Hans-Hermann Gennerich, Peter Stoffers, Kevin Mackay, Miles A Dunkin, and Stephen C Bannister. "Collapse and reconstruction of Monowai submarine volcano, Kermadec Arc, 1998-2004." <i>Journal of Geophysical Research: Solid Earth</i> 113, no. B8 (2008).  Chadwick, WW, IC Wright, U Schwarz-Schampera, O Hyvernaud, D Reymond, and CEJ de Ronde. "Cyclic eruptions and sector collapses at Monowai submarine volcano, Kermadec arc: 1998-2007." <i>Geochemistry, Geophysics, Geosystems</i> 9, no. 10 (2008).
	Shown Unnamed on Map/Chart:	
	Within Area of Map/Chart:	Chart NZ 14600 INT 600, INT 605

<b>Reason for Choice of Name</b> (if a person, state how associated with the feature to be named):	Named after the Royal New Zealand Navy research vessel HMNZS Monowai. 'Monowai' is a compound of the Greek 'mono' <i>lit.</i> 'one', and the Māori 'wai' <i>lit.</i> 'water'.
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<b>Discovery Facts:</b>	Discovery Date:	1984
	Discoverer (Individual, Ship):	HMNZS Monowai

<b>Supporting Survey Data, including Track Controls:</b>	Date of Survey:	September 2004
	Survey Ship:	R/V Tangaroa
	Sounding Equipment:	EM300 multibeam
	Type of Navigation:	GPS
	Estimated Horizontal Accuracy, in nautical miles (M):	10m
	Survey Track Spacing:	100% coverage
Supporting material can be submitted as Annex in analog or digital form.		

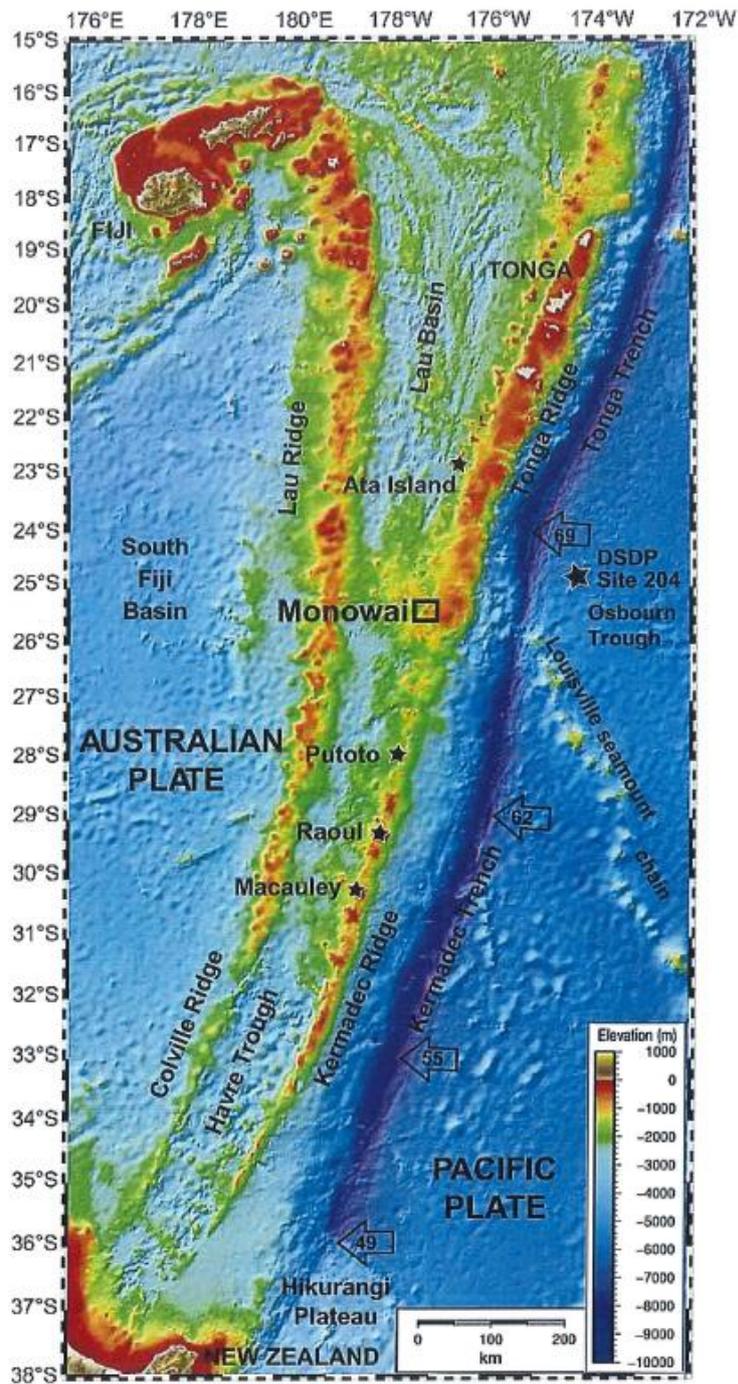
<b>Proposer(s):</b>	Name(s):	Mr Anselm Haanen (Acting Chairperson of the NZGB) & Mr Adam Greenland (National Hydrographer)
	Date:	4 June 2019
	E-mail:	agreenland@linz.govt.nz
	Organization and Address:	New Zealand Geographic Board PO Box 5501 Wellington 6145 New Zealand
	Concurrer (name, e-mail, organization and address):	Mr Kevin Mackay NIWA Private Bag 14901 Kilbirnie Wellington 6241 Kevin.Mackay@niwa.co.nz

<b>Remarks:</b>	The New Zealand Geographic Board gazetted <b>Monowai Caldera</b> as an official undersea feature name on 20 May 2019.
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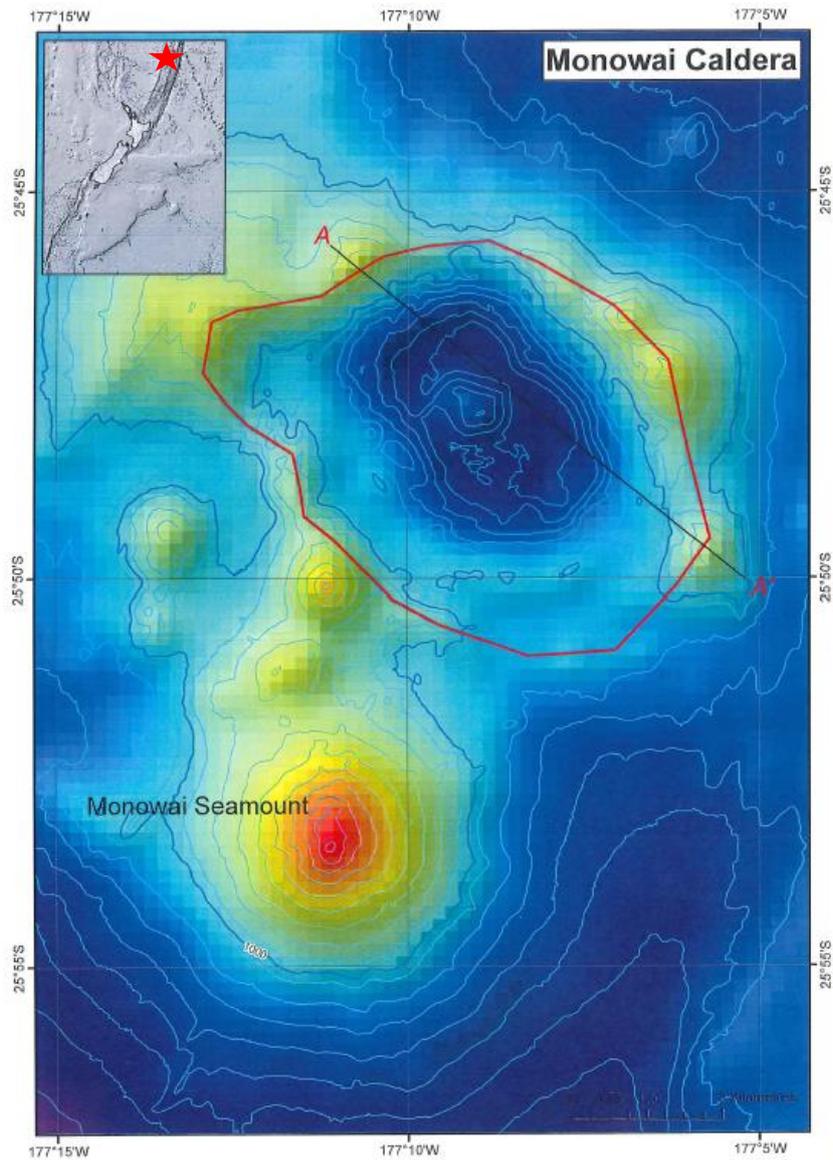
**NOTE:** This form should be forwarded, when completed:

- 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 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 :

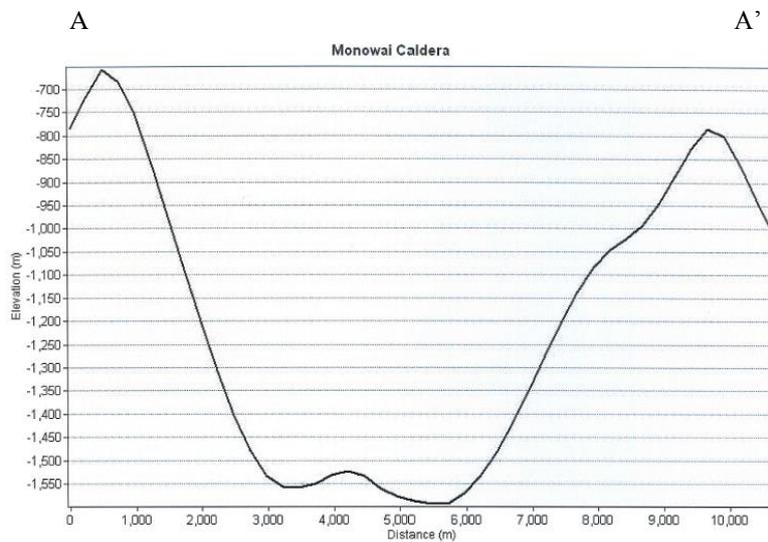
International Hydrographic Organization (IHO) 4b, Quai Antoine 1er B.P. 445 MC 98011 MONACO CEDEX Principality of MONACO Fax: +377 93 10 81 40 E-mail: <a href="mailto:info@iho.int">info@iho.int</a> Web: <a href="http://www.iho.int">www.iho.int</a>	Intergovernmental Oceanographic Commission (IOC) UNESCO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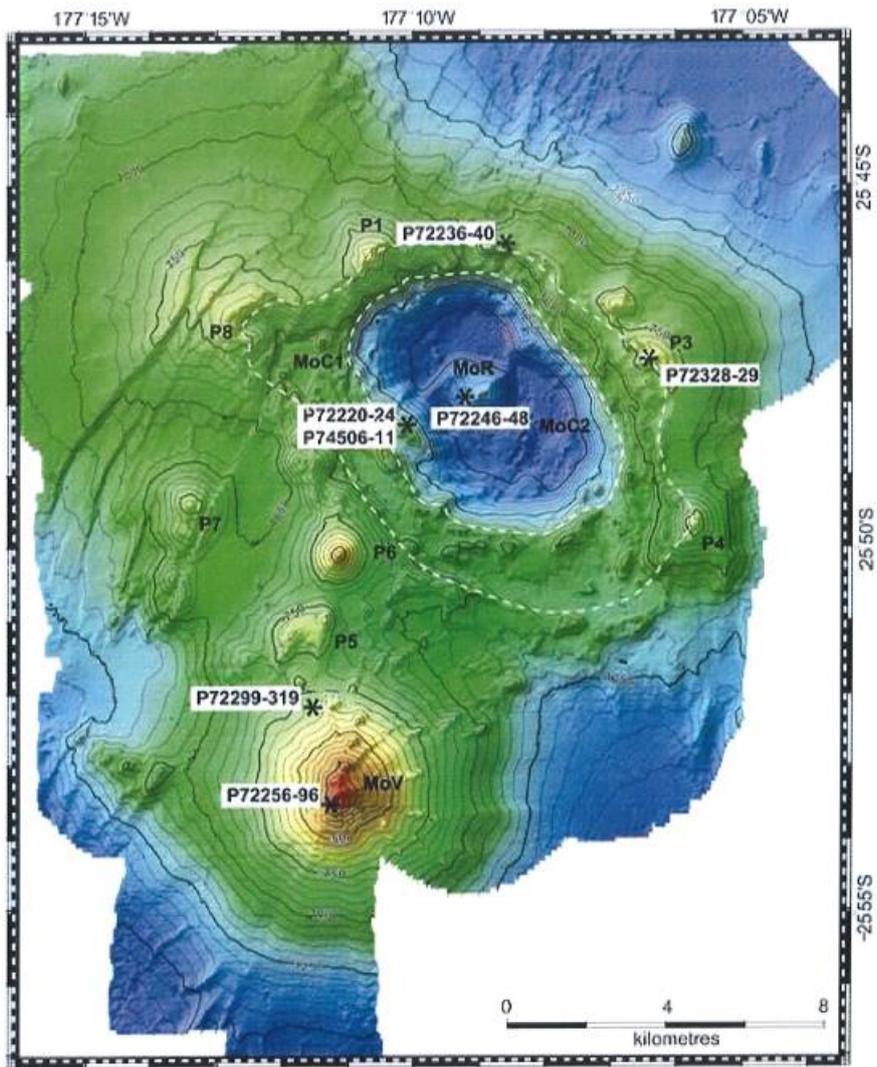


Index map showing the location of the feature on a regional scale

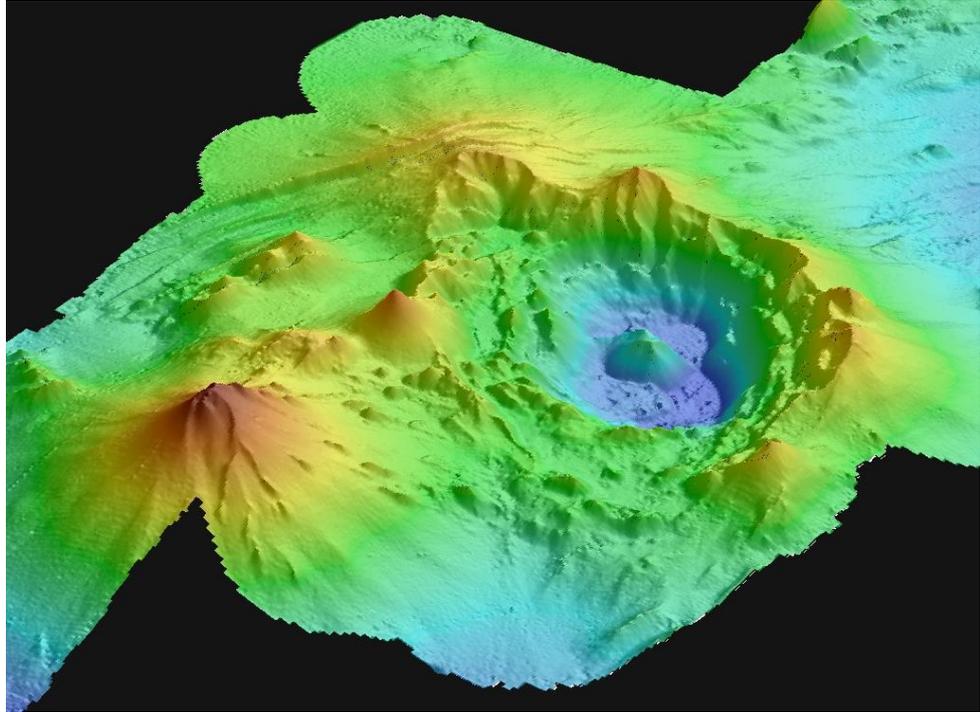


2D bathymetric oriented profile of the feature with an index map showing the location of the profile. Contours are in 50m. The polygon defining Monowai Caldera is in red. Bathymetric profile A-A is below.





**Figure 7** in Graham et al., 2008. Structure and petrology of newly discovered volcanic centers in the northern Kermadec–southern Tofua arc, South Pacific Ocean. *Journal of Geophysical Research*, Vol. 113, 1-24.



Oblique perspective view of Monowai Seamount and Monowai Caldera. View from the southeast looking towards the northwest.