

ENVIRONMENTAL IMPACT STATEMENT

Nautilus Minerals Niugini Limited

Solwara 1 Project

Volume A
Main Report

Figures and Plates

September 2008

CR 7008_9_v4

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Chapter 7

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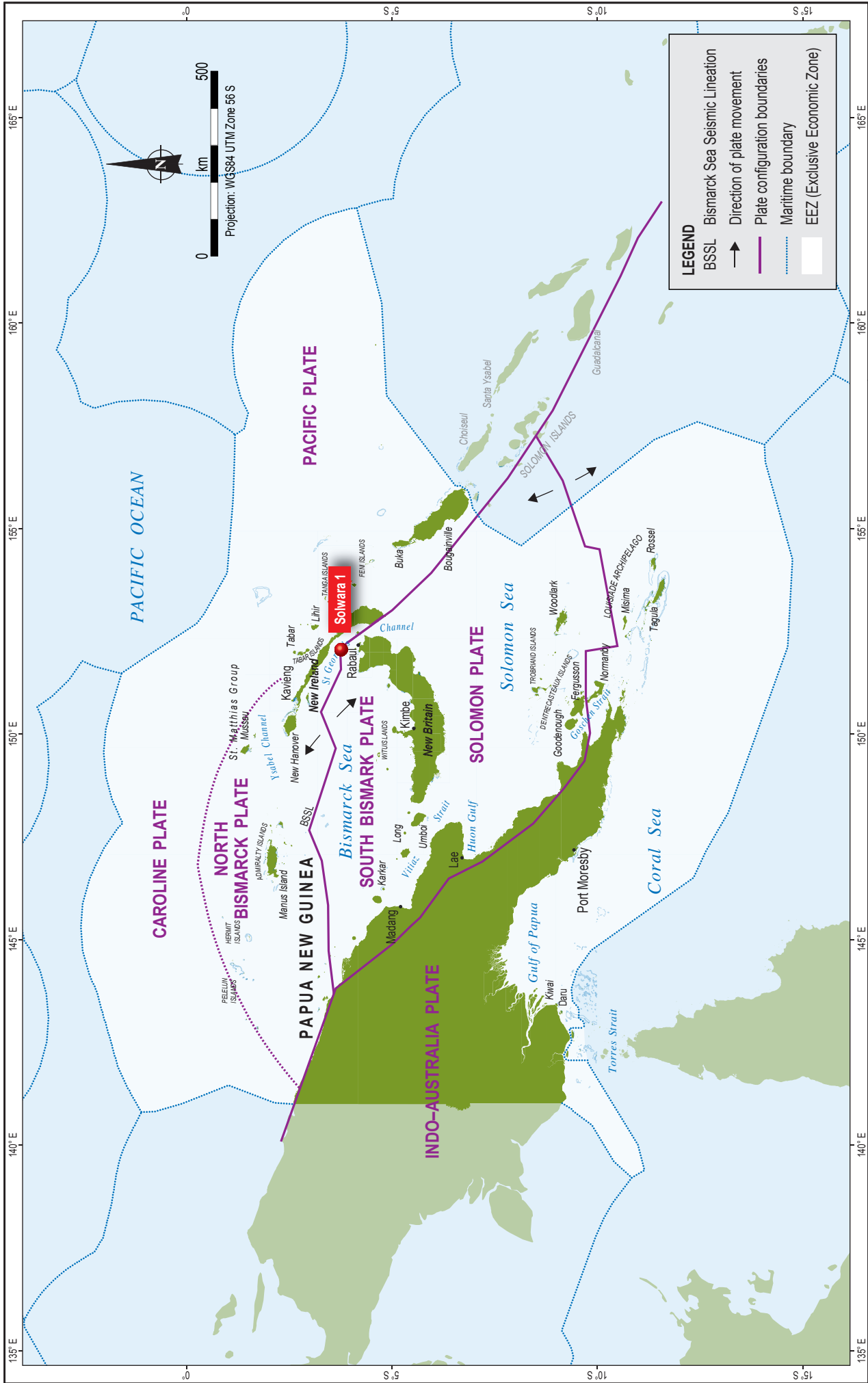
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Note:
Plate boundaries approximate only (Greenbaum et al. (1995)).



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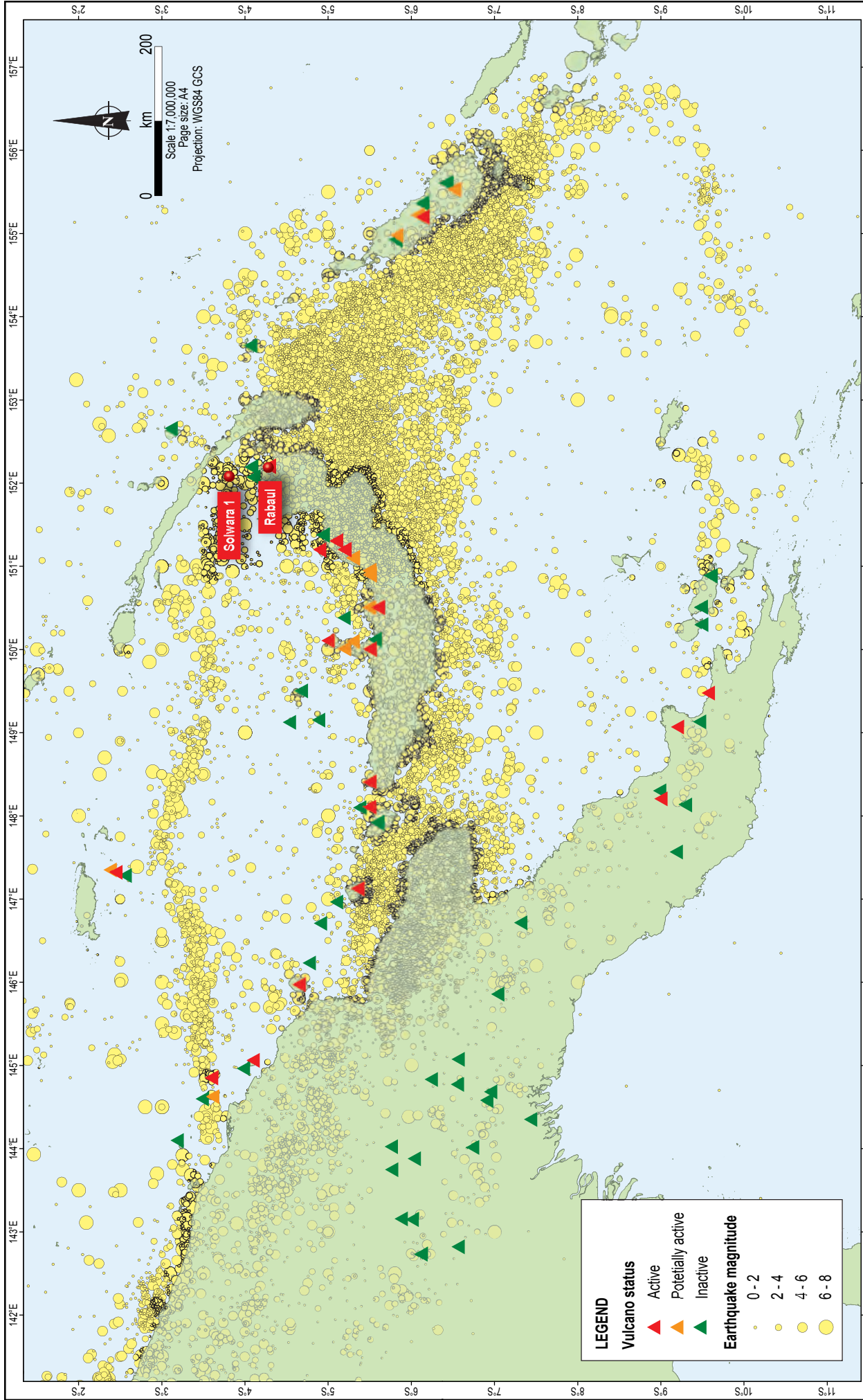
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Simplified plate configuration of the Papua New Guinea region

Figure No:

7.1



LEGEND

Vulcano status

- ▲ Active
- ▲ Potentially active
- ▲ Inactive

Earthquake magnitude

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8

Source: Earthquake data from Geoscience Australia. Volcano data from Rabaul Volcano Observatory.
 Note: The geological mechanisms, which lead to PNG being tectonically, seismically, and volcanically active are still occurring. As such it is possible that other unrecognised areas in the volcanic belts, or volcanic centers assumed to be inactive may develop activity.

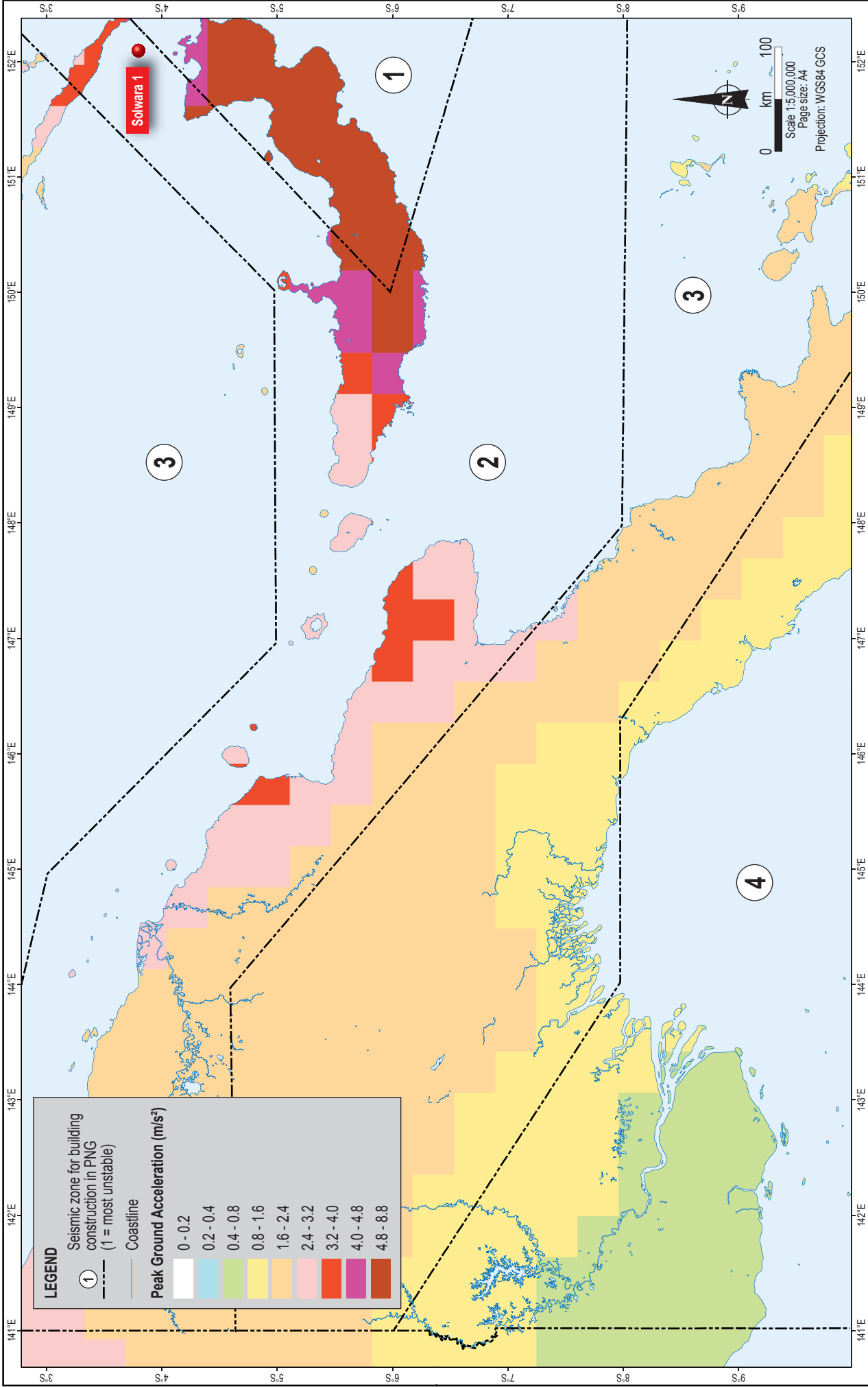


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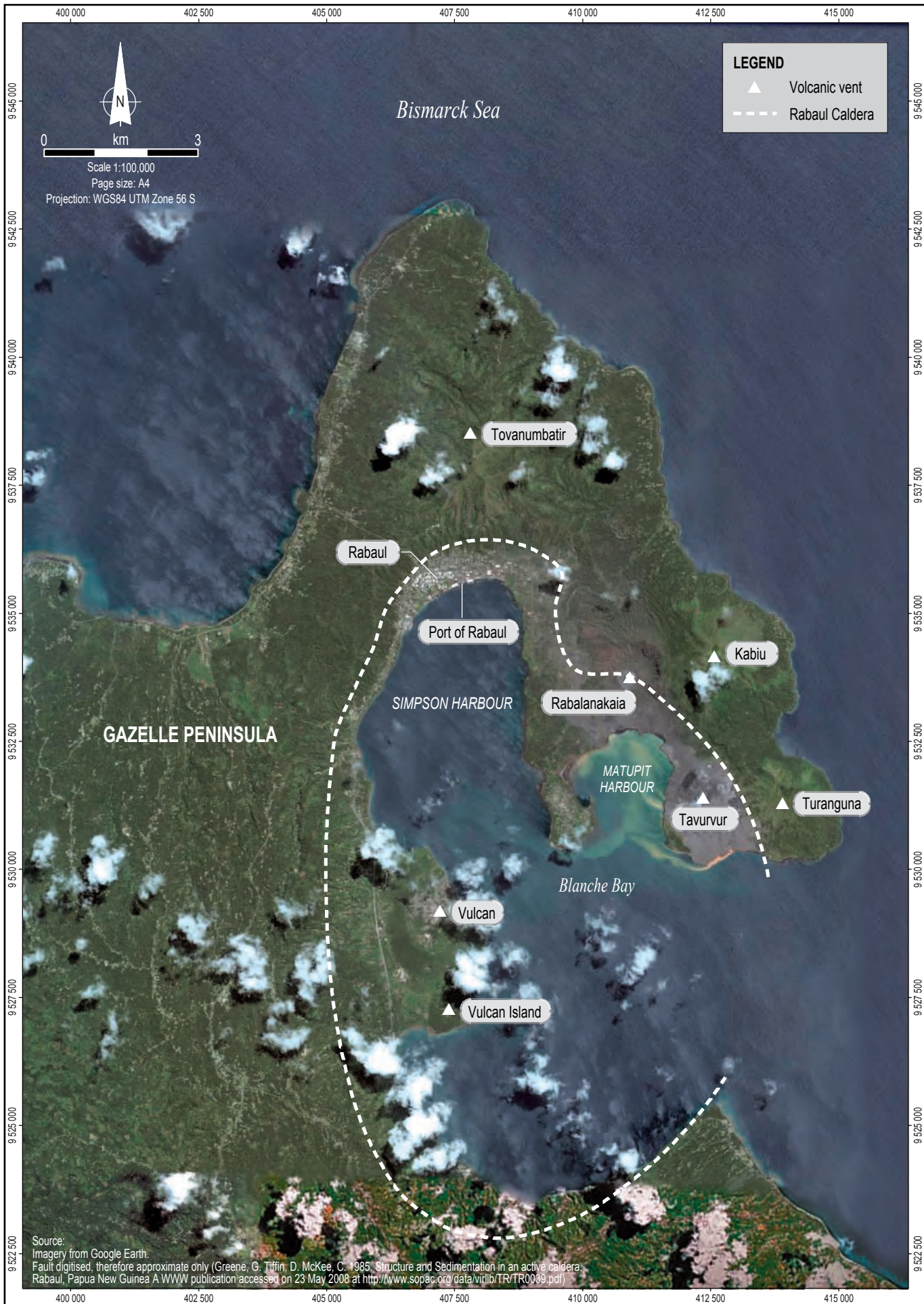
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Distribution of earthquake epicentres and active volcanoes (1900 - 2008)



		Seismic hazard zones in PNG		Figure No: 7.3
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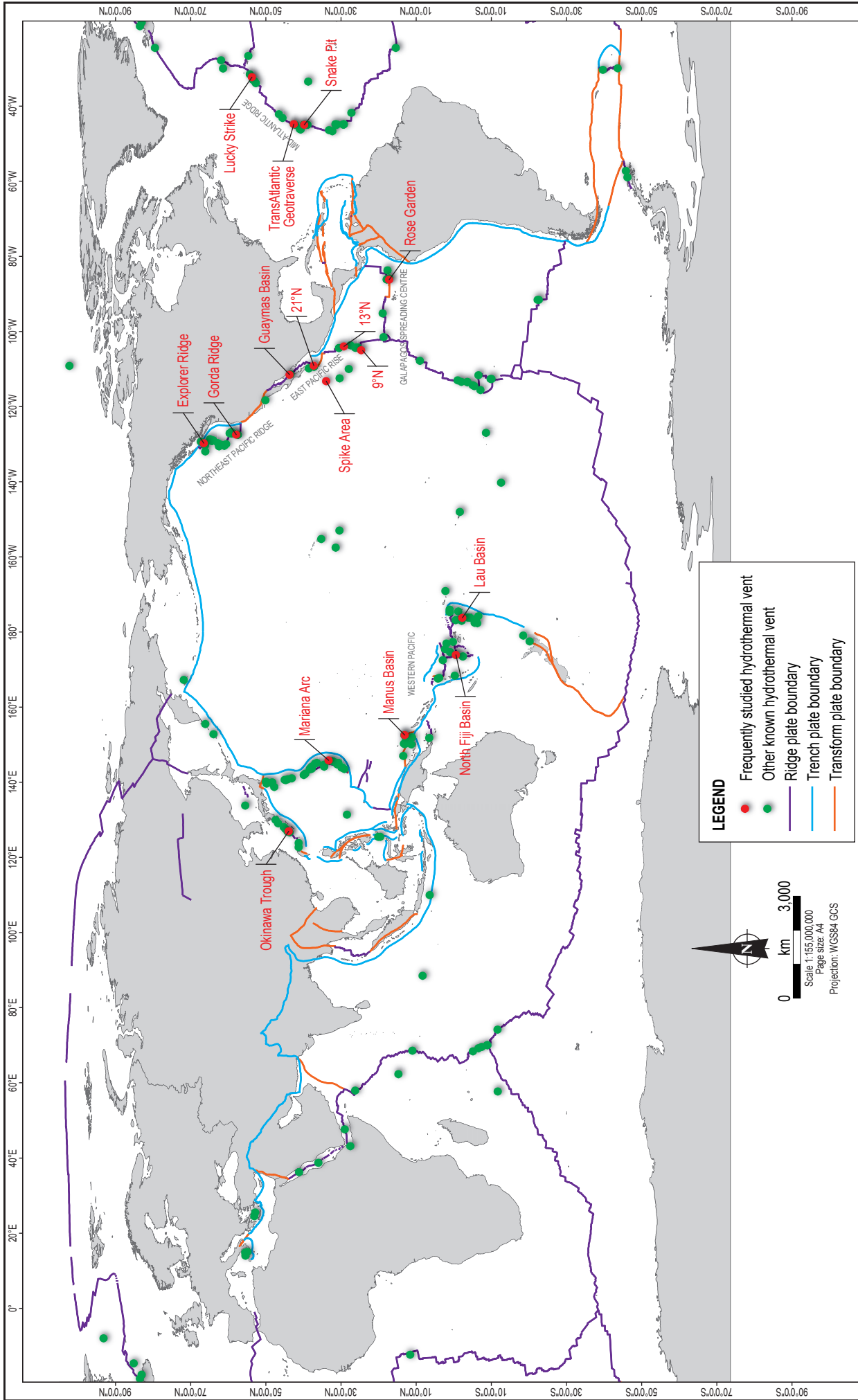


LEGEND

- ▲ Volcanic vent
- - - Rabaul Caldera

0 km 3
 Scale 1:100,000
 Page size: A4
 Projection: WGS84 UTM Zone 56 S

Source: Imagery from Google Earth.
 Fault digitised, therefore approximate only (Greene, G. Tiffin, D. McKee, C. 1985. Structure and Sedimentation in an active caldera, Rabaul, Papua New Guinea A WWW publication accessed on 23 May 2008 at <http://www.sopac.org/data/virlib/TR/TR0039.pdf>)



Source: Hydrothermal vents from InterRidge, June 2008. (Note: Database under construction. Currently incomplete.)
 Tectonic data from University of Texas Institute for Geophysics (UTIG).

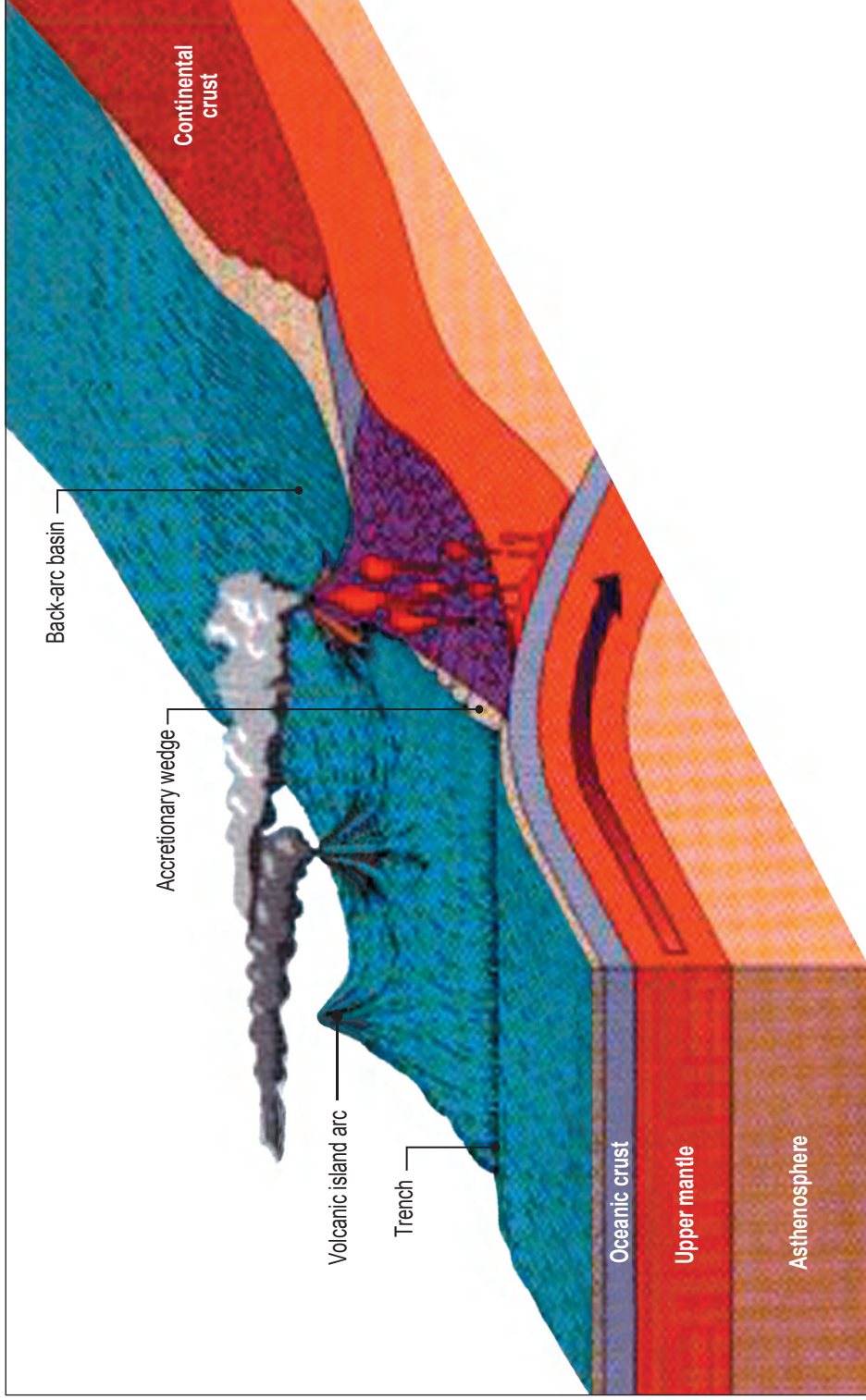
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Adapted from:
<http://blank005.tripod.com/geology/deformation.html>



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Back-arc basin formation

