

GEBCO Sheet G.09

(Waters around New Zealand)

REGIONAL BATHYMETRIC CHART OF NEW ZEALAND (compiled 1997)

Authors: Lionel Carter, Greg Foster, Richard Garlick, John Mitchell and Ian Wright – Charting Around New Zealand (CANZ) Group, National Institute of Water and Atmospheric Research (NIWA), Wellington, New Zealand.

Digitised by: Nichola Litchfield (contours) and Dave Cook (tracklines), CANZ Group, NIWA

Sheet Limits: 24°S to 57°30'S; 157°E to 167°W

Scale: contours compiled and digitized on Mercator sheets at a scale of 1:1 million

Horizontal Datum: WGS-84

Contour Units: bathymetric depth in corrected metres

Contours present: 0m, 50m, 100m, 150m, 200m, 250m and at 250m intervals thereafter down to 10,000m

Coastline Source: NIMA World Vector Shoreline (1:250,000 scale)

Published Chart: CANZ Group (1997), 'New Zealand Region Bathymetry', 1:4,000,000 scale at 46°S on Mercator projection, NIWA Chart, Miscellaneous Series No. 73, National Institute of Water and Atmospheric Research, Wellington, New Zealand

Geographic Coverage:

In the edgematching of this sheet with GEBCO sheet G.08, the bathymetry was taken from sheet G.08 for the following areas:
24°-31°S, 157°-158.5°E; 47°-54°S, 157°-165°E; 54°-57.5°S, 157°-163.5°E

PREPARATION OF GEBCO SHEET G.09

The bathymetry was compiled by NIWA at a scale of 1:1 million using a series of 18 separate Ocean Plotting Sheets on which the soundings were plotted. Each author (as listed above) worked on the interpretation and contouring of 3-4 sheets each and gravity data were used to assist in the interpretation. The resulting contours (at intervals of 250m) were then digitized and used in the production of the 1:4 million scale chart. The

digitized contours and digital trackline control data were also submitted to BODC as the base for GEBCO sheet G.09.

The bathymetry was compiled from data held at:

National Institute of Water and Atmosphere (NIWA);

Hydrographic Office of the Royal New Zealand Navy;

US National Geophysical Data Centre;

South Pacific Applied Geoscience Commission (Fiji);

from published scientific papers;

and from recent swath bathymetric surveys funded by Institut Francais de Recherche pour l'Exploitation de la Mer (IFREMER), France, NIWA and Seabed Mapping New Zealand Ltd.

The shallow water contours (50m, 100m, 150m and 200m) were delivered to BODC in digital form from the NIWA Coastal Database, compiled by Kevin MacKay. The database is made up of the digitized contours from the NIWA coastal (1:200,000) chart series.