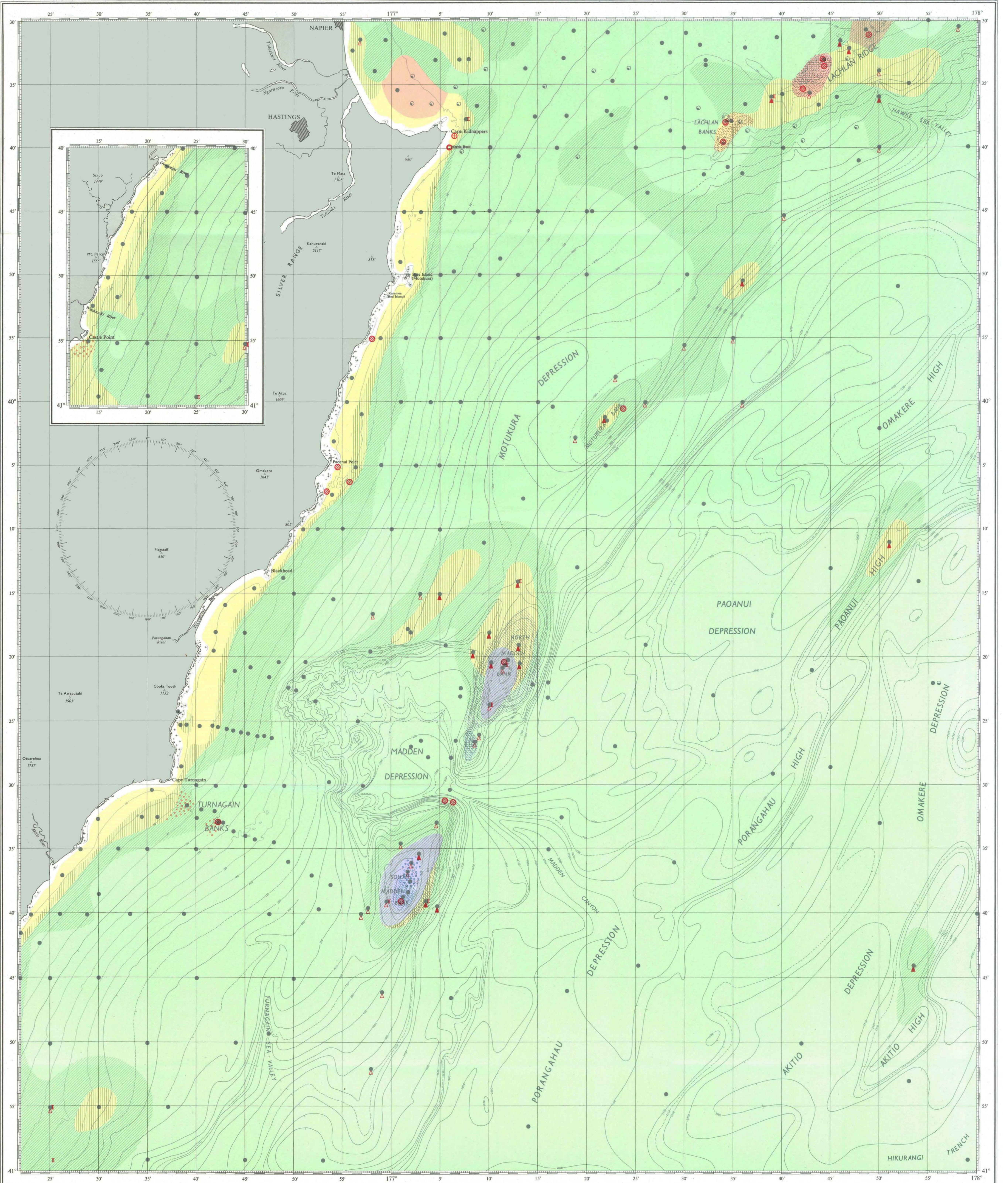


TURNAGAIN

SCALE: 1:200,000 AT LAT. 41°

COASTAL SERIES

SEDIMENTS
NOT TO BE USED FOR NAVIGATIONAL PURPOSES



Drawn by H. E. E. E. Sediments by K. Lewis and J. G. Gibb

A. R. Shaver, Government Printer, Wellington, New Zealand

C. T. Webb, Chief Geographer, D.S.I.R.

Interpretation of sediment distribution by K. B. Lewis and J. G. Gibb
From samples obtained during N.Z. Oceanographic Institute cruises 1951-52. Samples taken by H.M.S. Lachlan 1951-52, made available by Hydrographic Branch, Navy Office, Department of Defence; samples collected from m.v. Koruiki 1952, made available by the Zoology Department, Victoria University of Wellington; data on charts B.A. 1212, N.Z. 57, B.A. 2528, N.Z. 6.

Grade analysis by Miss A. Fisher and Miss C. M. Jenkins. Compilation by J. G. Gibb.

Coastline from N.Z. Hydrographic Branch Chart N.Z. 57.

Isobath detail is not represented precisely on this scale. This chart is not to be used for navigational purposes. The data of this chart that show or overlap earlier charts in the series may utilize new data and consequently supersede the earlier information.

REFERENCES

Bathymetry	Rocks
Depths in metres	Foreshore:
Vertical interval:	Above sea level:
Down-slope direction:	Submerged:
Isobaths drawn thus:	Defined areas:
Intermediate isobaths:	Foul ground:
	Spot depths:
	Trigonometrical station and height in feet:

STATION SYMBOLS

- Textural analysis of large samples
- Textural analysis of small samples collected with equipment with limited capacity for sampling other than coarse or fine grades
- Visual determination of small samples
- Data from sediment notations on British Admiralty and New Zealand Hydrographic charts



NEW ZEALAND OCEANOGRAPHIC INSTITUTE WELLINGTON

Published by the Department of Scientific and Industrial Research 1970

COLOUR LEGEND

Dominant particle composition	Rock and mineral detritus	Organic carbonate	Foraminiferal sediment
Shells			
Cobbles and pebbles			
Gravel and coarse sand			
Medium and fine sand			
Mud			

* These do not appear on this chart

CONSOLIDATED ROCK

- Pre-Tertiary rock
- Tertiary and Quaternary rock
- Rock, age unknown (from sample)
- Rock, age unknown (from notation)

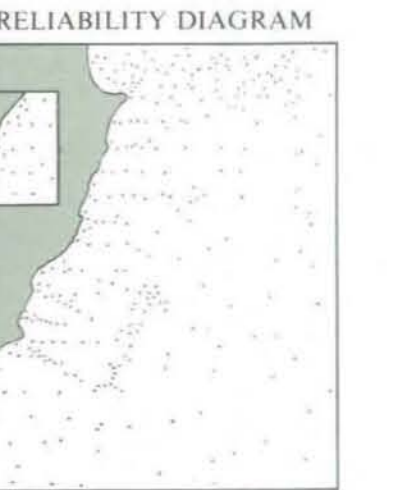
SPECIFIC SEDIMENTARY PARTICLES

- Magnetic and limonite
- Vertically oriented (spined etc.)
- Plant fragments
- Glaucinite
- Phosphate minerals
- Lapilli

* These do not appear on this chart

CRITERIA USED IN POSITIONING SEDIMENT BOUNDARIES

- The boundaries separating areas with different dominant sediments are arbitrarily drawn midway between stations, where the latter are one lock or less apart on the chart.
- When stations are further apart, the boundaries between areas with different dominant fractions are interpolated linearly, in the ratio of the percentages of the dominant fractions at each station.
- The same criteria are used to decide the position of boundaries of the sub-dominant sediment fractions.
- In regions of diversified bathymetry and on steep submarine slopes where sediment data are sparse, the bathymetry has been used as a guide in positioning sediment boundaries.



Bibliographic Reference
Lewis, K.B. & Gibb, J.G. 1970 Turnagain Sediments, N.Z. Oceanogr. Inst. Chart, Coastal Series, 1: 200,000

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