



### BATHYMETRIC AND NODULE ASSESSMENT MAP, 1502N, NORTHEAST EQUATORIAL PACIFIC OCEAN

Sources: The soundings on this map were principally assembled from compilations made since 1949 by the following organizations:

Columbia University, Department of Geological Sciences, Lamont-Doherty Geological Observatory (initiated in 1949 with the support of the Office of Naval Research); includes principally precision depth soundings by research vessels.

Department of Defense, Defense Mapping Agency Hydrographic Center, US Naval Oceanographic Office (organized on 4-1-1 Longitude format in 1951). Includes principally precision depth soundings of ships and other vessels and all pre-1950 echo soundings.

University of California, Scripps Institution of Oceanography (initiated in 1951 with the support of the Office of Naval Research); includes principally precision soundings from research vessels.

Comments: Soundings from listed sources were converted at publication scale using a plate-tectonic working hypothesis and bathymetric trends derived from both magnetic anomalies and magnetic anomalies derived from bathymetry. Numerical values in tau units and the vessel and voyage numbers are shown at an extremity of each track. Approximate depths of contours in meters can be determined from the conversion table.

#### Conversion Table

Tau	Meters
300	375
400	576
500	767
600	958
700	1149
800	1340
900	1531
1000	1722
1100	1913
1200	2233
1300	2608
1400	2983
1500	3361
1600	3740
1700	4122
1800	4504
1900	4886
2000	5268
2100	5650
2200	5932
2300	6214
2400	6496
2500	6778
2600	7060
2700	7342
2800	7624
2900	7906
3000	8188

Contour data assembled, evaluated, and interpreted by Bruce C. Heezen and Marie Tharp assisted by S. Blythe, R. Bodner, R. Brune, D. Jicha, H. Jicha, T. Kaul, M. McClellan, and F. Rosselot, Lamont-Doherty Geological Observatory, Department of Geological Sciences, Columbia University, Palisades, NY 10964.

Nodule data from the Scripps Institution of Oceanography Sediment Data Bank, compiled by Jane Z. Frazer and Mary B. Fisk, Scripps Institution of Oceanography, University of California, La Jolla, CA 92093.

1978

1.13(2) + Nodules present and averaged combined copper and nickel content in weight percent. Total number of analyses averaged shown in parentheses.

+ Nodules present but no reported analyses.

2-1/32 ■ Site of photograph showing bottom coverage by ferromanganese nodules; no nodules present. Photograph available from Lamont-Doherty Geological Observatory.

Coverage: 1, 0-25%; 2, 26-50%; 3, 51-75%; and 4, 76-100%.

Regions: M, R/V Moana Wave, University of Hawaii

O, R/V Oceanus, National Oceanographic and Atmospheric Agency

C, R/V Robert Conrad, Lamont-Doherty Geological Observatory

R, R/V Vema, Lamont-Doherty Geological Observatory

■ No nodules reported in sample or in photographs.

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MINERAL ASSESSMENT

1-109 A	1-109 D	1-109 G	1-109 J	1-109 M
1604 N	150 N	1404 N	1304 N	1204 N
1-109 B	1-109 E	1-109 H	1-109 I	1-109 K
1603 N	1503 N	1403 N	1303 N	1203 N
1-109 C	1-109 F	1-109 L	1-109 N	1-109 O
1602 N	1502 N	1402 N	1302 N	1202 N