UNIVERSITY OF CALIFORNIA
SCRIPPS INSTITUTION OF OCEANOGRAPHY

MIDPAC EXPEDITION

August - September 1950

LIST OF CORES AND DREDGE SAMPLES

Depths Corrected by Matthews' Tables

R/V HORIZON

Note: Positions are the best available.
<table>
<thead>
<tr>
<th>MP</th>
<th>Date</th>
<th>Time</th>
<th>Location</th>
<th>Depth (m)</th>
<th>Core Length (cm)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MP-3</td>
<td>1 August 1950</td>
<td>11:45-approx.</td>
<td>15:30 hrs.; 20°51'N, 127°16'W</td>
<td>4702</td>
<td>754</td>
<td>Chocolate brown clay.</td>
</tr>
</tbody>
</table>
| MP-5| 5 August 1950 | 07:23-approx. | 15:00 hrs.; 14°22'N, 133°07'W |           |                  | Three cores:
|     |               |               | 1) Depth 4990 m; core length 43 cm. White, very firm calcareous ooze. |           |                  |
|     |               |               | 2) Depth 4816 m. Brown clay with Mn nodules. |           |                  |
|     |               |               | 3) Depth 5023 m; core length 40 cm. Dark brown to brown clay and ash. |           |                  |
| MP-6| 6 August 1950 | 14:30 hrs.    | 13°38'N, 133°45'W; depth 4889 m |           | 76               | Reddish brown mottled clay.                                                |
| MP-7-1| 7 August 1950 | 07:50 hrs.    | 12°47'N, 134°27'W; depth 4794 m |           | 124              |                                                                           |
| MP-7-2| 7 August 1950 | approx. 1000 hrs. | 12°48'N, 134°26'W; depth 4889 m |           | 106              | Soft, light buff colored mud.                                              |
| MP-10-1| 11-12 August 1950 | approx. 2235-approx. 0200 hrs. | 4°35'N, 139°58'W; depth 4451 m |           | 97               | Calcareous ooze.                                                           |
| MP-10-2| 12 August 1950 | approx. 0300-0445 hrs. | 4°37'N, 140°00'W; depth 4478 m |           | 89               | Light buff to grayish brown foraminiferal ooze.                            |
| MP-11| 12 August 1950 | approx. 1915-2250 hrs. | 4°39'N, 140°03'W; depth 4490 m |           |                  |                                                                           |
| MP-13| 15 August 1950 | approx. 0005-approx. 0630 hrs. | 9°09'N, 144°26'W; depth 5235 m |           | 113              | Two cores. Core MP-15-2, 113 cm. long. Buff and brown layered mud.        |
| MP-14| 15 August 1950 | 13:11-1530 hrs. | 9°58'N, 145°13'W; depth 5127 m |           | 89               |                                                                           |
| MP-15| 16 August 1950 | 17:45 hrs.    | 10°44'N, 145°53'W; depth 5368 m |           | 91               | Brown, gray and light yellow mud and ash.                                  |
| MP-16-1| 18 August 1950 | approx. 0240- approx. 0630 hrs. | 13°45'N, 149°15'W; depth 4564 m |           | 25               | Grayish brown muddy silt with volcanics, Mn nodule and shell fragments. Core slipped out of liner. Near top of deep seamount. |
| MP-16-2| 18 August 1950 | 08:00-1045 hrs. | 14°01'N, 149°21'W; depth 5137 m |           |                  | A handful of blackish pebbles in a gray-brown mud matrix.                 |
| MP-17-1| 19 August 1950 | approx. 1700 hrs. | 14°40'N, 151°55'W; depth 5833 m |           |                  |                                                                           |
MP-17-2 19 August 1950, 1903-2250 hrs.; 14°38'N, 151°58'W; depth 581 m; core length 119 cm. Reddish brown mud at top to grayish green mud at bottom.

MP-18A-1,2 21 August 1950, 0835-0915 hrs.; 19°46'N, 154°48'W; depth approx. 375 m. Core lengths: 1) 19 cm; 2) 12 cm. Dark colored silty sand.

MP-18B-1 21 August 1950, 1220-1230 hrs.; 20°02'N, 155°11'W; depth 351 m; core length approx. 15 cm.

MP-18B-2,3 21 August 1950, 1248 hrs.; 20°02'N, 155°11'W; depth 351 m. Core lengths (both) approx. 61 cm. Both, silty sand above to mud below.

MP-19 21-22 August 1950, 2157-0000 hrs.; approx. 20°10'N, approx. 154°43'W; depth 5584 m. Small amount of silt and sand.

MP-20-1 22 August 1950, 1055 hrs.; approx. 20°27'N, approx. 154°55'W; depth 5233 m.

MP-20-2 22 August 1950, approx. 1115-1330 hrs.; position approx. same as MP-20-1; depth 5061 m; core length approx. 61 cm. Brown, silty mud at top, black sand at bottom.

MP-21-1 27 August 1950, 1309-1525 hrs.; approx. 20°45'N, approx. 160°00'W; depth 4659 m; core length 150 cm. Uniform brown clay.

MP-21-2 27 August 1950, 2200-2329 hrs.; approx 20°47'N, approx. 159°59'W; depth 4659 m; core length 152 cm.

MP-23 29-30 August 1950, 2340-0135 hrs.; approx. 19°53'N, approx. 164°30'W; depth 5043 m; core length 37 cm. Brown mud at top, brownish black ash at bottom.

MP-24 30-31 August 1950, 2230-0140 hrs.; approx. 19°45'N, approx. 166°50'W; depth 5156 m; core length 122 cm. Brown clay at top, ash at bottom.

MP-25A 1 September 1950, approx. 1330 hrs.; 19°02'N, 169°42'W; depth 1602 m; core length 72 cm. White foraminiferal ooze.

MP-25B 1 September 1950, 1935-2154 hrs.; 19°10'N, 169°49'W; depth 1871 m. About 10 g. foraminiferal sand and Mn (?) grains. Horizon Guyot.

MP-25C 1 September 1950, 2215-2340 hrs.; 19°07'N, 169°48'W; depth 1675 m; core length 15 cm. Grayish white foraminiferal ooze and pumice fragments. Horizon Guyot.

MP-25D 2 September 1950, 0020 hrs.; 19°05'N, 169°46'W; depth 1660 m. Small amount of foraminiferal sand. Horizon Guyot.
MP-25E-1 2 September 1950, 0310-0414 hrs.; 19°02'N, 169°44'W; depth 1733 m; core length 78 cm. White to brown foraminiferal ooze with pumice at bottom. Horizon Guyot.

MP-25E-2 2 September 1950, 0420-0454 hrs.; 19°02'N, 169°44'W; depth 1768 m; core length 71 cm. White foraminiferal ooze. Horizon Guyot.

MP-25F-1 2 September 1950, 0630-0759 hrs.; 19°07'N, 169°44'W; depth 1768 m. Dredge: 3 or 4 large "plates" of manganese, some chips of Mn, volcanic ? rock, a sponge skeleton and a crinoid cup. Horizon Guyot.


MP-26A-1 3 September 1950, 0320-0403 hrs.; approx. 19°25'N, 171°00'W; depth 1276 m. Small amount of Mn fragments and foraminiferal sand. Core nose and end of barrel badly damaged. On top of Guyot 19171.

MP-26A-2 3 September 1950, 0435-0630 hrs.; approx. 19°25'N, 171°00'W; depth 1258-1267 m. Dredge: 3 small pieces of manganese.

MP-26A-3 3 September 1950, 0640-0835 hrs.; approx. 19°25'N, 171°00'W; depth 1340-1434 m. Dredge: 3 large Mn-covered rocks and many small Mn nodules.

MP-26B 3 September 1950, 0922-1120 hrs.; "2 mi. 075° fr. MP-26A-3"; depth 1304-1322 m. Dredge: some Mn fragments, a fragment of siliceous sponge and a small pebble.

MP-27-1 4 September 1950, 1100-1300 hrs.; 19°34'N, 171°54'W; depth 3834 m; core length 59 cm. Alternating foraminiferal ooze and brown clay with gravel at top and bottom.

MP-27-2 4 September 1950, 1331-1900 hrs.; 19°34'N, 171°54'W; depth 3833 m; core length 96 cm. Foraminiferal ooze, brown clay and fine gravel. (Piston core.)

MP-27-2P Simultaneously with MP-27-2. Core length 91 cm. Foraminiferal ooze, brown clay, coarse sand and fine gravel. (Phleger core.)

MP-28 5 September 1950, 0050-0315 hrs.; approx. 19°40'N, 171°35'W; depth 2242-2176 m. Pipe dredge: foraminiferal ooze; main dredge: a few small Mn nodules.

MP-29 6 September 1950, 1408-1638 hrs.; 18°04'N, 173°11'W; depth 4602 m; core length 19 cm. Brown sand.
<table>
<thead>
<tr>
<th>MP</th>
<th>Date/wake</th>
<th>Time</th>
<th>Location</th>
<th>Depth</th>
<th>Core Length</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MP-30</td>
<td>6 September</td>
<td>2005-2157 hrs.</td>
<td>18°27'N, 173°14'W</td>
<td>4003</td>
<td>63 cm</td>
<td>Brown clay</td>
</tr>
<tr>
<td>MP-31</td>
<td>7 September</td>
<td>0602 hrs.</td>
<td>18°31'N, 173°17'W</td>
<td>2701</td>
<td>21 cm</td>
<td>Uniform brown clay</td>
</tr>
<tr>
<td>MP-32</td>
<td>7 September</td>
<td>1751-1920 hrs.</td>
<td>18°20'N, 173°23'W</td>
<td>3950</td>
<td>76 cm</td>
<td>Uniform brown clay with Mn nodule at top</td>
</tr>
<tr>
<td>MP-33A</td>
<td>8 September</td>
<td>1503-1730 hrs.</td>
<td>17°48'N, 174°18'W</td>
<td>1786-1744</td>
<td></td>
<td>Uniform brown clay with Mn nodule at top; main dredge: moderate consolidated beach? limestone. S.W. side of Hess Guyot.</td>
</tr>
<tr>
<td>MP-33B</td>
<td>8 September</td>
<td>1855-2140 hrs.</td>
<td>17°47'N, 174°20'W</td>
<td>1750-1722</td>
<td></td>
<td>Dredge: foraminiferal ooze and 3 small fragments of rock. Near the center of Hess Guyot.</td>
</tr>
<tr>
<td>MP-33C</td>
<td>8-9 September</td>
<td>2210-0130 hrs.</td>
<td>17°49'N, 174°17'W</td>
<td>1693-1711</td>
<td></td>
<td>Pipe dredge: many large and small soft lumps of calcareous &quot;rock&quot;, gastropod shells, worm tubes, foraminiferal sand; some &quot;rocks&quot; Mn coated; and some Mn coated volcanic? rock. Near the top of Hess Guyot.</td>
</tr>
<tr>
<td>MP-33D</td>
<td>9 September</td>
<td>0213-0417 hrs.</td>
<td>17°54'N, 174°16'W</td>
<td>1825-1779</td>
<td></td>
<td>Clean, gray foraminiferal sand and chips of Mn; main dredge: about 30 lbs. of white, medium-grained gastropod limestone and Mn crust. North side of Hess Guyot.</td>
</tr>
<tr>
<td>MP-33E</td>
<td>9 September</td>
<td>0500-0549 hrs.</td>
<td>17°48'N, 174°12'W</td>
<td>2064</td>
<td>12 cm</td>
<td>Foraminiferal ooze with Mn grains. On a steep slope of Hess Guyot.</td>
</tr>
<tr>
<td>MP-33F</td>
<td>9 September</td>
<td>0618-0648 hrs.</td>
<td>17°50'N, 174°15'W</td>
<td>1754</td>
<td>40 cm</td>
<td>Brownish gray to gray foraminiferal ooze. Near center of Hess Guyot.</td>
</tr>
<tr>
<td>MP-33G</td>
<td>9 September</td>
<td>0718-0748 hrs.</td>
<td>17°52'N, 174°19'W</td>
<td>1763</td>
<td>97 cm</td>
<td>Foraminiferal ooze. Near center of Hess Guyot.</td>
</tr>
<tr>
<td>MP-33H</td>
<td>9 September</td>
<td>0828-0907 hrs.</td>
<td>17°53'N, 174°27'W</td>
<td>1737</td>
<td>54 cm</td>
<td>White and gray foraminiferal ooze. Near west side of Hess Guyot.</td>
</tr>
<tr>
<td>MP-33I</td>
<td>9 September</td>
<td>1030-1330 hrs.</td>
<td>17°48'N, 174°19'W</td>
<td>1775-1711</td>
<td></td>
<td>Dredge: 2 gals. foraminiferal ooze with Mn-coated gastropod fragments and 2 solitary corals. Across break in slope of Hess Guyot.</td>
</tr>
<tr>
<td>MP-33-J</td>
<td>9 September</td>
<td>1510 hrs.</td>
<td>17°48'N, 174°22'W</td>
<td>1849</td>
<td></td>
<td>No core.</td>
</tr>
</tbody>
</table>
MP-33K 9 September 1950, 1830-2159 hrs.; 17°48'N, 174°22'W; depth 2528-1843 m. Dredge: reef coral, echinoid test, pelecypod and gastropod fragments, and limestone. Southwest side of Hess Guyot.

MP-33L 9-10 September 1950, 2330-0025 hrs.; 17°51'N, 174°17'W; depth 1750 m; core length 43 cm. Buff to grayish brown foraminiferal sand. Near center of Hess Guyot.

MP-34 10 September 1950, 1630-2135 hrs.; 18°38'N, 175°03'W; depth 1059 m. Dredge: fossil solitary coral. Sharp, uneroded peaks on north side of Mid-Pacific range.

MP-35-1 11 September 1950, 0409-0621 hrs.; 19°21'N, 174°58'W; depth 5080 m; core length 75 cm. Uniform chocolate brown clay. Flat bottom on north side of Mid-Pacific range.

MP-35-2 11 September 1950, 1815- approx. 2200 hrs.; 19°21'N, 174°58'W; depth 4984 m; core length 376 cm. Chocolate brown clay throughout. Flat bottom on north side of Mid-Pacific range.

MP-36G 13 September 1950, 1713-2247 hrs.; 16°48'N, 176°27'W; depth 5176 m; core length 79 cm. Light to dark brown clay. Flat bottom of south side of Mid-Pacific range.

MP-36P Simultaneously with MP-36G. Core length 330 cm. Light to dark brown clay throughout.

MP-37A 14 September 1950, 1810-2028 hrs.; 17°04'N, 177°15'W; depth 2046-1861 m. Dredge: One small jar of foraminiferal ooze, a large Mn-coated rock (sandstone?), fossiliferous Mn-coated rock, fragments of Mn and Mn-coated rock fragments. Up slope on Cape Johnson Guyot.

MP-37B 14 September 1950, 2115-2325 hrs.; 17°07'N, 177°17'W; depth 1916-1732 m. Dredge: about 2 gals. sandy foraminiferal ooze and one cetaceous earbone. Toward break in slope on Cape Johnson Guyot.

MP-37C 15 September 1950, 0040-0420 hrs.; 17°10'N, 177°10'W; depth 2083-1946 m. Dredge: about 200 lbs. of Mn-coated broken rock pieces, silicified limestone with poorly preserved large gastropods and coral, a small Tridacna-like form; weathered surfaces red, broken surfaces white and gray. About 400 g. of sandy foraminiferal ooze and 2 Mn nodules in pipe dredge. Toward break in slope of Cape Johnson Guyot.


MP-37E 15 September 1950, 0802-0845 hrs.; 17°08'N, 177°16'W; depth 1829 m; core length 61 cm. Sandy foraminiferal ooze. Below break in slope of Cape Johnson Guyot.
MP-37F 15 September 1950, 0908-0937 hrs.; 17°08'N, 177°16'W; depth 1825 m; core length 66 cm. Foraminiferal ooze. Near center of Cape Johnson Guyot.

MP-37G 15 September 1950, 1013-1105 hrs.; 17°07'N, 177°18'W; depth 1922 m; core length 26 cm. Foraminiferal ooze. Below break in slope on Cape Johnson Guyot.

MP-37H(I) 15 September 1950, approx. 1600-approx. 1800 hrs.; 17°05'N, 177°13'W; depth 1845 m; core length 275 cm. Just below break in slope on Cape Johnson Guyot.

MP-38 16 September 1950, 0800-1100 hrs.; 19°02'N, 177°18'W; depth 4852 m; core length 383 cm. Dark chocolate brown clay. Flat bottom on north side of Mid-Pacific range. (Piston core.) Phleger core (labelled MP-38P) simultaneously with piston core: core length 84 cm. Upper approx. 5 cm. foraminiferal ooze, remainder chocolate brown clay with 1½ cm. layer of foraminiferal ooze at 61 cm. Flat bottom on north side of Mid-Pacific range.

MP-39 16 September 1950, 1257 hrs.; approx. 19°02'N, 177°18'W; depth 4975 m; core length 81 cm. Uniform moderate brown clay with small Mn nodules.

MP-40-1 19 September 1950, 1405-1650 hrs.; approx. 15°35'N, 177°30'E; depth 4184 m; core length 386 cm. Calcareous ooze and brown clay.

MP-40-2 19-20 September 1950, 2345-0105 hrs.; approx. 15°32'N, 177°32'E; depth 4237 m.

MP-42 22 September 1950, 1435-1756 hrs.; approx. 12°48'N, 168°29'E; depth 4946 m; core length 202 cm. Brown clay, volcanic ash and calcareous ooze.


MP-43B 25 September 1950, 1210-1449 hrs.; 12°03'N, 165°00'E; depth 2125-1529 m. Main dredge: Mn crust and chips; Mn-coated gray tuff breccia; Pipe dredge: 1 quart foraminiferal sandy ooze. Sylvania Guyot.


MP-43D 25-26 September 1950, 2200-0139 hrs.; 11°57'N, 164°59'E; depth 2139-1527 m. Dredge: Mn-encrusted brown, dense basalt and green tuff breccia; rhyolite pumice; Mn crust and chips; 3 pints of coarse foraminiferal ooze. Sylvania Guyot.
MP-43E
26 September 1950, 0258-0802 hrs.; 11°47'N, 165°11'E; depth
2138-1602 m. Dredge: gray basalt with feldspar phenocrysts;
freshly broken brown basalt with Mn crust; 2 quarts coarse
foraminiferal ooze. Sylvania Guyot.

MP-43G
26 September 1950, 1453-1600 hrs.; 11°58'N, 165°01'E; depth
1324 m; core length 35 cm. White foraminiferal ooze. Sylvania
Guyot.

MP-43H
26 September 1950, approx. 1847 hrs.; 12°03'N, 164°49'E; depth
1545 m. Two attempts: No sample. Sylvania Guyot.

MP-43I
26 September 1950, 2034-2135 hrs.; 12°05'N, 164°50'E; depth
2423 m; core length 35 cm. Buff to gray foraminiferal ooze.
Sylvania Guyot.

MP-43J
26 September 1950, 2213-2340 hrs.; 12°07'N, 164°52'E; depth
3361 m. Reddish brown foraminiferal ooze and clay with Mn
nodule. Sylvania Guyot.

MP-43K
27 September 1950, 0010-0159 hrs.; 12°11'N, 164°54'E; depth
4513 m; core length 76 cm. Brown clay. Sylvania Guyot.

MP-43L
27 September 1950, approx. 0300-1016 hrs.; 12°18'N, 164°59'E;
depth 4803 m. Gravity core length 61 cm, light brown clay.
Piston core length 544 cm, uniform light brown clay. Sylvania
Guyot.

MP-44A
28 September 1950, 0110-0233 hrs.; 11°16'N, 165°30'E; depth
3765 m; core length 71 cm. Foraminiferal ooze. Southeast of
Bikini Atoll.

MP-44B
28 September 1950, 0315- approx. 0400 hrs.; 11°23'N, 165°31'E;
depth 2889 m; core length 28 cm. Foraminiferal ooze above,
reddish colored acid volcanic rock. Southeast of Bikini Atoll.

MP-44C-1
28 September 1950, 0500-0600 hrs.; 11°28'N, 165°32'E; depth
1732 m. A few fragments of Halimeda and other calcareous
debris. Three miles off Ennu Island, Bikini Atoll.

MP-44C-2
28 September 1950, 0615-0645 hrs.; 11°28'N, 165°32'E; depth
1933 m. About 2 oz. foraminiferal ooze and calcareous fragments.

MP-44D
28 September 1950, 1125- approx. 1150 hrs.; 11°29'N, 165°32'E;
depth 1174 m; core length 7 cm. Broken coral. Southeast of
Bikini Atoll.

MP-44E
28 September 1950, 1218-1229 hrs.; approx. 11°30'N, 165°33'E;
depth 329 m. Approx. 50 g. of coral and Halimeda. Southeast of
Bikini Atoll.

MP-44F
28 September 1950, 1258-1316 hrs.; approx. 11°31'N, 165°34'E;
depth 756 m; core length 5 cm. Coral fragments. Southeast of
Bikini Atoll.
MP-44G  28 September 1950, 1325-1335 hrs.; approx. 11°31'N, 165°35'E; depth 132 m; core length approx. 2.5 cm. *Halimeda, Lithothamnia* and coral. Southeast of Bikini Atoll.

MP-44H  28 September 1950, 1350 hrs.; 11°31'N, 165°36'E; depth 1397 m. Approx. 1 g. *Halimeda* fragments, echinoid spines and plates, other calcareous debris. Southeast of Bikini Atoll.

MP-44I  28 September 1950, 1452-1600 hrs.; 11°31'N, 165°37'E; depth 1861 m. A subangular fragment of Mn-coated pumice, some smaller grains of Mn and a little calcareous sand. Southeast of Bikini Atoll.


MP-44K  28-29 September 1950, 1852-0000 hrs.; 11°32'N, 165°57'E; depth 4410 m. Fresh coral fragments to 1" and pieces of slightly cemented foraminiferal ooze. Southeast of Bikini Atoll.

MP-44L  29 September 1950, 0125-0320 hrs.; 11°27'N, 165°51'E; depth 4487 m. A few grains of foraminiferal ooze and a small amount of Mn crust. Southeast of Bikini Atoll.

MP-45  30 September 1950, approx. 0330 hrs.; 9°57'N, 166°54'E; depth 4593 m; core length approx. 12 cm. Reddish foraminiferal ooze. Between Bikini and Kwajalein atolls.
A Guide to MIDPAC Bottom Sampling Locations (approximate)