

UNIVERSITY OF CALIFORNIA
SCRIPPS INSTITUTION OF OCEANOGRAPHY

FANFARE EXPEDITION 1959

LIST OF CORES AND DREDGE SAMPLES

COPIED FROM SHIPBOARD LOGS

B. P. Smith,

4

5/1/59

(Depths corrected with Matthews' tables)

000

FANFARE EXPEDITION:
GEOLOGICAL SAMPLES COLLECTED BY THE HUGH M. SMITH.

- FAN HMS 1G: 8 July 1959, approx. 0440-0550 hrs.; 28° 12'N, 117° 16'W; depth 3690 m.; core length 166 cm.; light brown clay. Subdued relief.
- HMS 2G: 9 July 1959, approx. 1630 hrs.; 30° 17'N, 118° 14'W; depth 2970 m.; core length 147 cm. (divided into two sections, 90 cm. and 57 cm.). Rough topography. Core may be contaminated on the outer surface.
- HMS 3G: 9 July 1959, 2028-2136 hrs.; 30° 06'N, 118° 42'W; depth 3535 m.; core length 182 cm.; light brown clay. Subdued relief.
- HMS 4G: 11 July 1959, 0221-approx. 0340 hrs.; 28° 28'N, 118° 01'W; depth 3080 m.; core length 168 cm.; tan clay. On top of ridge south of Guadalupe Island.
- HMS 5G: 12 July 1959, 0005-0110 hrs.; 28° 35'N, 118° 42'W; depth 3470 m.; core length 154 cm.; brown above, greenish below. Subdued relief on a broad rise.
- HMS 6G: 15 July 1959, 1705-1835 hrs.; 35° 18'N, 124° 16'W; depth 4170 m.; core length 104 cm. (top 1-2 cm. lost); greenish silt with brownish upper layer. On Monterey Fan.
- HMS 7G: 16 July 1959, 0235-0345 hrs.; 36° 06'N, 123° 14'W; depth 3530 m.; core length 132 cm.; very soft greenish mud, brownish at top. Channel in fan at foot of Monterey Canyon.
- HMS 8G: 16 July 1959, 1510-1630 hrs.; 37° 03'N, 123° 46'W; depth 3550 m.; core length 133 cm.; fine greenish silt. Deep-sea fan off San Francisco.
- HMS 9G: 16 July 1959, 1938-2055 hrs.; 37° 01'N, 124° 18'W; depth 3980 m.; core length 120 cm.; fine greenish silt. Deep-sea fan off San Francisco.
- HMS 10G: 17 July 1959, approx. 0030 hrs.; 37° 01'N, 124° 50'W; depth 4240 m.; core length 112 cm.; fine greenish silt. Deep-sea fan off San Francisco.
- HMS 11G: 17 July 1959, 0455-0640 hrs.; 37° 01'N, 125° 21'W; depth 4350 m.; core length 155 cm.; fine greenish silt with brownish layer at top. Deep-sea fan off San Francisco.

- HMS 12G: 17 July 1959, 1635-1805 hrs.; 38° 03'N, 126° 24'W; depth 4430 m.; core length 179 cm. (top 10 cm. lost, including brownish layer); greenish silt, stratified, with soft shale pebbles. Delgada deep-sea fan.
- HMS 13G: 18 July 1959, 1457-1600 hrs.; 39° 44'N, 125° 22'W; depth 3210 m.; core length 12 cm.; fine greenish silt. Delgada deep-sea fan.
- HMS 14G: 21 July 1959, 0430-0555 hrs.; 41° 58'N, 128° 36'W; depth 3300 m.; core length 160 cm.; top 10 cm. brown, then bluish, and greyish-tan at bottom. Minor depression in deep-sea plain.
- HMS 15G: 22 July 1959, 0332-0413 hrs.; 40° 23'N, 127° 32'W; depth 1450 m.; several small, somewhat rounded pebbles with a thin Mn crust. South side of northern ridge of Mendocino Escarpment.
- HMS 16G: 22 July 1959, 0425-0500 hrs.; 40° 22'N, 127° 33'W; depth 1450 m.; several chips of a Mn crust. Southern ridge on crest of Mendocino ridge.
- HMS 17G: 23 July 1959, 1828-1900 hrs.; 39° 51'N, 129° 39'W; depth 4550 m.; core length 125 cm.; brownish at top, overlying stiff greenish clay, with perhaps a thin manganous zone between. Abyssal plain south of Mendocino Escarpment.
- HMS 18G: 23 July 1959, 2305-0037 hrs.; 39° 26'N, 129° 13'W; depth 4320 m.; core length 183 cm. (2 cm. lost from top); brownish at top, greyish below. On a broad isolated rise between the Mendocino Ridge and the Pioneer Ridge.

GEOLOGICAL SAMPLES COLLECTED BY THE SPENCER F. BAIRD.

- FAN BG 1: 10 July 1959, approx. 1800 hrs.; 29° 09'N, 117° 33'W; depth 3620 m.; core length approx. 180 cm. (top portion lost); chocolate brown clay. Rolling hills.
- BP 2: 11 July 1959, 0912-1215 hrs.; 28° 32.5'N, 117° 20'W; depth 3580 m.; core length 6 m. (top section #1, 47 cm.; #2, 135 cm.; #3, 156 cm.; #4, 121 cm.; bottom section #5, 140 cm.). Smooth bottom, very subdued hills. No gravity core.
- BG 3: 11 July 1959, 1340-1450 hrs.; 28° 33'N, 117° 19.6'W; depth 3580 m.; core length approx. 180 cm. (top disturbed). Smooth bottom with rolling hills.

- BG 4: 11 July 1959, approx. 1830 hrs.; 28° 52'N, 117° 20'W; depth 3560 m.; core length 184 cm. (top disturbed). Rolling hills, 10 fm. relief.
- BG 5: 12 July 1959, approx. 0800 hrs.; 29° 00'N, 117° 30'W; depth 3590 m.; core length approx. 180 cm. (top lost); chocolate brown clay.
- BD 1: 12 July 1959. No sample. Dredge lost.
- BG 6: 12 July 1959, approx. 1330 hrs.; 28° 59'N, 117° 28'W; depth 3535 m.; core length 292 cm. (cut into two parts, 133 and 159 cm.); chocolate clay with worm burrowing throughout. Subdued low hills.
- BG 7: 13 July 1959, 1310-1420 hrs.; 30° 43'N, 119° 50'W; depth 3900 m.; core length 288 cm. (cut into two parts, 148.5 and 139 cm.); greenish clay. Smooth low hills.
- BG 8: 14 July 1959, 1213-1325 hrs.; 32° 48'N, 121° 48'W; depth 4090 m.; core length 159 cm.; brown at top, greenish below. Southern end of Arguello Fan.
- BG 9: 15 July 1959, approx. 0800 hrs.; 35° 08'N, 123° 19'W; depth 4025 m.; core length 47 cm.; brown at top, greenish below - corer stopped by sand layer. Channel in Monterey Fan.
- BP 10: 15 July 1959, approx. 1130 hrs.; 35° 06'N, 123° 19'W; depth 4100 m.; core length approx. 3 m., cut into three sections (#C, at top, 0-60 cm.; #B, 60-190 cm.; #A, at bottom, disturbed, approx. 100 cm. long); silt, with a good deal of nearly dry green clay, and 1 cm. flat pebbles of shale, and shell fragments. Monterey Fan, near channel.
- BG 11: 15 July 1959. No sample.
- BG 12: 15 July 1959, approx. 2030 hrs.; 35° 31'N, 123° 19'W; depth 4300 m.; core length 87 cm.; brown at top, greenish sandy clay below. Monterey Fan.
- BG 13: 15 July 1959, 2330-0040 hrs.; 35° 51'N, 123° 21'W; depth 3660 m.; core length 56 cm. (core originally longer, but much of the sample fell out of the corer); greenish clay. Monterey Fan.
- BG 14: 16 July 1959, approx. 0800 hrs.; 36° 33'N, 123° 21'W; depth 3470 m.; core length 71 cm.; sandy green mud. West side of Monterey Fan.

- BG 15: 16 July 1959, approx. 1000 hrs.; 36° 32'N, 123° 20'W; depth 3470 m.; core length 212 cm., cut into two parts of 113 and 99 cm. (approx. 1 cm. lost between these sections); greenish, with no obvious brown layer at top. West side of Monterey Fan.

- BG 16: 16-17 July 1959, 2315-0028 hrs.; 37° 11'N, 124° 34'W; depth 3850 m.; core length 172 cm.; dark brown above, greenish below. A high in the Monterey Fan.

- BP 17: 17 July 1959, approx. 1000 hrs.; 37° 34'N, 125° 53'W; depth 4350 m.; core length 805 cm. (section G, at top, approx. 50 cm.; F, 132 cm.; E, 149 cm.; D, 127 cm.; C, 132 cm.; B, 117 cm.; A, at bottom, 98 cm.). Green clay with silt, sand, and perhaps gravel layers. Axis of Delgada Channel.

- BG 17: 17 July 1959, approx. 1000 hrs.; 37° 34'N, 125° 53'W; depth 4350 m.; core length approx. 120 cm.; brown at top, greenish clay below. Axis of Delgado Channel.

- BP 18: 18 July 1959, approx. 1000 hrs.; 39° 14'N, 125° 03'W; depth 3200 m.; core length 663 cm. (section E, at top, 133 cm.; D, 134 cm.; C, 133 cm.; B, 120 cm.; A, at bottom, 143 cm.); greenish clay with sand and silt layers. Axis of Delgada Channel.

- BG 18: Simultaneously with BP 18; core length 171 cm.; brown at top, greenish clay below.

- BG 19: 19 July 1959, 0905-1005 hrs.; 41° 06'N, 125° 57'W; depth 3120 m.; core length 129 cm.; brown at top, greenish clay below. Flat bottom.

- BD 20: 20 July 1959, 0915-1430 hrs.; 40° 15'N, 128° 27'W to 40° 18'N, 128° 29'W; one sack of Mn nodules, spherical and flat, largest 20 cm. across, and one whale ear-bone. Depth 4500 m. South side of Mendocino Escarpment.

- BD 21A: 20 July 1959. No sample.

- BD 21B: 20 July 1959. No sample.

- BG 22: 21 July 1959, 0822-1040 hrs.; 41° 16'N, 128° 32'W; depth 3220 m.; core length approx. 150 cm.; brown at top, green clay below. Rolling hills.

- BD 23: 21 July 1959, approx. 1300 hrs.; 41° 14'N, 128° 36'W; depth 3300 m.; nothing but some sand and clay adhering to the dredge.

- BG 24: 21 July 1959, approx. 2100 hrs.; 41° 10'N, 128° 16'W; depth 2600 m.; a pierced Mn nodule or crust, and no core. On a rise.
- BD 25: 22 July 1959, 2150-0100 hrs.; 40° 23'N, 127° 59'W; depth 1260 m.; 400 lbs. of basalt pebbles and cobbles coated with Mn. Top of Mendocino Ridge.
- BG 26: 23 July 1959, approx. 0115 hrs.; 40° 23'N, 127° 58'W; depth 1310 m.; practically no sample - only a few Forams. Crest of Mendocino Ridge.
- BG 27: 23 July 1959, approx. 1115 hrs.; 40° 08'N, 128° 12'W; depth somewhat more than 4507 m.; clay core, brown at top, greenish below. Abyssal hills, 5 fm. relief.
- BG 28: 23 July 1959. Core dropped into sea while removing barrel.
- BG 29: 24 July 1959, approx. 0830 hrs.; 38° 32'N, 127° 56'W; depth 4660 m.; core length 40 cm.; brown clay at top, greenish below. Gently undulating bottom.
- BG 30: 24 July 1959, approx. 1030 hrs.; 38° 30'N, 127° 58'W; depth 4665 m.; small sample of brown clay. Gently undulating bottom.
- BG 31: 24 July 1959, 1450-1605 hrs.; 38° 25'N, 128° 00'W; depth 4660 m.; core approx. 60 cm. long, very fluid, stored in two boxes.
- BG 32: 25 July 1959, approx. 0800 hrs.; 40° 16'N, 127° 40'W; depth 3730 m. Base of Mendocino Escarpment.
- BD 33: 25 July 1959, approx. 0945 hrs.; 40° 19'N, 127° 39'W; depth 3925 m.; 100 lbs. rock and siliceous sponges. South side of Mendocino Escarpment.
- BG 34: 26 July 1959; 40° 27'N, 127° 42'W; depth 3200 m.; core length approx. 60 cm.; brown at top, greenish clay below. Base of Mendocino Ridge.
- BD 35: 25 July 1959. No sample.
- BD 36: 26 July 1959, approx. 0800 hrs.; 40° 24'N, 125° 32'W to 40° 19'N, 125° 43'W; depth 1820-2390 m.; 9 bags of rocks. Crest of Gorda Escarpment.