VICTORIA, BRITISH COLUMBIA - PAPEETE, TAHITI 29 SEPTEMBER - 29 OCTOBER 1971

| DREDGE NO. | DATE 1971 | LOCAL TIME LATITUDE | LONGITUDE | CORRECTED DEPTH (M) | CORE NO. | AMOUNT OF DREDGE | | | |
|--|--------------|-------------------------------|---------------------------|----------------------------|-------------|---|--|--|--|
| 1 | 8 ост | 1313- 29°43' N 1452 | 133°52' W | 2813- 2570 | | 1 ~ 15 pound rock of manganese encrusted palagonite tuff. | | | |
| | | P | APEETE, TAHI 1 NOVEMBE | TTI - VALPA ER - 1 DECE | | | | | |
| 2 | 19 NOV | 013926°12' S 0300 | 106°18' W | 3003- 2778 | | ~ 200 pounds of MnO ₃ encrusted obsidian basalt and weathered ? (altered) palago-nite. No biological sample. | | | |
| PUNTA ARENAS, CHILE - BUENOS AIRES, ARGENTINA 4 JANUARY - 7 FEBRUARY 1972 | | | | | | | | | |
| | 1972 | | | | | | | | |
| 3 | 10 JAN | 0656- 49°29' s 0925 | 41°56' W | 3718 - 2215 | | 4 large (1 ft x l ft) fragments of fine grained igneous rock, green to black. Possibly some is dunite. Approximately 20 (3" x 4") large grained igneous rocks, some are porphanitic in nature. Some appear to have at least 50% feldspar. | | | |
| X 4A | 20 JAN | 1325- 44°39' \$ 1756 | 16°38' W | 2745 | | Wire frayed 50 fathoms, | | | |

BUENOS AIRES - BUENOS AIRES, ARGENTINA 11 FEBRUARY - 8 MARCH 1972

| DREDO | | DATE 1972 | LOCAL TIME LATITUDE | LONGITUDE | CORRECTED DEPTH (M) | CORE | AMOUNT OF DREDGE |
|-------|----|--------------|------------------------|-----------|----------------------------|------|---|
| 4 | 19 | FE8 | 1256- 49°36' S 1424 | 47°34' W | 4080- 2705 | 115 | Primarily basalticmostly well rounded. Probably not basement but are probably glacial instead. Manganese coating on some rocks. |
| 5 | 27 | FEB | 1135- 48°28' s 1325 | 55°14′ W | 2915 - 2394 | 122 | ~100 pounds of assorted rocks. Most appear to have been broken off previous to dredge, but show few signs of transport. Some sedimentary bedding apparent in a few shale (?) specimens. Some volcanics present. Much manganese crust. |
| б | 1 | MAR | 1108- 43°39' s 1257 | 57°52' W | 3744- 3058 | 126 | Three small rocks 1) shows presence of secondary staining 2) mafic and 3) possibly is indurated clay from dredge site. |
| | | | BUENOS AIRES, ARG | | ERTO INGENI H - 12 APRI | | |
| . 7 | 21 | MAR | 1230- 47°58° s 1421 | 57°01' W | 3338 - 3122 | | ~600 pounds. Basalts, manganese crust on all rocks, quartzite, assorted meta-morphics. All appear to be transported from other areas. All rounded. |
| | | | PUERTO INGENIERO | | ENTINA - RI 8 MAY 197 | | JANIERO, BRAZIL |
| 8 | 1. | MAY | 1945- 30°30' s 2119 | 35°56' W | 1357- 673 | | Large pieces of manganese crust, pieces of coral, shell, manganese crust and possible silica cementation. |

| DREDGE NO. | DATE 1972 | LOCAL TIME | LATITUDE | LONGITUDE | CORRECTED DEPTH(M) | AMOUNT OF DREDGE |
|---------------|--------------|-----------------------|-----------|-----------|----------------------------|---|
| X 9A | 2 MAY | 0001- 0035 | 30°29' S | 35°55' W | 660 | Dredge lost. |
| X 9B 2 | ?-3 MAY | 2310- 0004 | 30°28' \$ | 35°13' W | 1454- 1438 | Empty. |
| 9 | 3 MAY | 0823- 1044 | 30°02' s | 35°08' W | 2583- 2105 | Large chunks of indurated marl, some black coral and assorted bits of sea life (stored in jar). |
| X 10A | 3 MAY | 1235- ~1450 | 29°59' S | 35°06' W | 1908 | Empty. |
| 10 | 5 MAY | 1329- 1425 | 28°22' s | 41°13' W | 3181- 3371 | ~80 pounds. Mn crust, with some clayey marl adhering to it. 2 large chunks, some assorted bits. Presence of possible worm burrowing in marl. |
| | | | RIO | |), BRAZIL - AY - 5 JUNE | BRAZIL |
| 11 | 19 MAY | 1125- 1230 | 20°18' s | 37°57' W | 1834 | Dredge contained small amount (2 jars) marl with pteropods. |
| 12 | 20 MAY | 1100- 1230 | 20°38' s | 35°32† W | 1169- 1176 | Bits of sand sized dark minerals, some bivalve shells and small pieces of coral Also 2 larger chunks of scoria like sandstone (10cm x 5cm x 3cm) and piece of undetermined material (appears to be Mn crust on carbonate rock). |
| ×13A | 21 MAY | 0344- 0720 | 20°42' S | 33°46' W | | Empty. |
| 13 | 21-22 MAY | 2305 ~ 0101 | 20°58' s | 31°48' M | 4141- 4150 | Some probable sandstone fragments, Mn crust, dark minerals, CaCO ₃ crust (?), |

| DREDGE NO. | DATE 1972 | LOCAL TIME LATITUDE | LONGITUDE | CORRECTED DEPTH (M) | CORE NO. | AMOUNT OF DREDGE |
|---------------|--------------|------------------------|---------------------------|-----------------------|----------------|---|
| 13 CONT'D | | | | | | adhering to dark minerals; bone. Possible most derived from basaltic origins. See also trigger weight. |
| 14 | 22 MAY | 0614- 21°01' s 0924 | 31°54' W . | 4331- 4227 | | Primarily Mn nodules (?) and crust, some sand and clay conglomerates. Possible piece of bone. Some iron rich fragments and aggregates containing garnet. |
| 15 | 23 MAY | 0950- 20°34' s 1052 | 31°48' W | 3711- 3738 | | A few pieces of volcanic scoria-like sand- stone. Trigger weights (suspended with pebble dredge) contained clay or marl. |
| 16 | 23 MAY | 1420- 20°34' s 1834 | 31°48' W | 3715- 3367 | | Much Mn crust overlying what seems to be a clay-sand conglomerate loosely lithi-fied. |
| 17 | 28 MAY | 1953- 13°58' s 0032 | 34°09' W | 4840- 4679 | | Small amount of indurated clay, a piece of what appears to be scoria-like material and a loosely consolidated conglomerate. |
| | | BARBAD | OS, WEST INDI 6 JULY - | | ORGE'S .972 | , BERMUDA. |
| 1.8 | 10 JUL | 2206- 19°27' N 0024 | 59°46′ W | 4913- 4739 | | One several ounce flat (9cm x 15cm) piece of rock. Fresh surface very pale orange (10 YR 8/2). Negligible carbonate. Thin Mn crust on one side (1cm). Rock itself a semi-lithified clay, appears to be micronodules of Mn imbedded in clay. |
| 19 | 16 JUL | 2203- 27°36' N 0150 | 61°08' W | 5706 - 5877 | | ~70 pounds of rock, Mn nodules in a semi- consolidated clay material. Size of nod- ules 2cm x 3cm to 10cm x 15cm, some |

| DREDGE NO. | | LOCAL TIME LATITUDE | LONGITUDE | CORRECTED DEPTH (M) | CORE NO. | AMOUNT OF DREDGE |
|---------------|--------|------------------------|-----------|------------------------|-------------|--|
| 19 CONT'D | | | | | | loose, not in matrix. Some igneous rock, apparently a basalt. No CaCO3 in sediment adhering to any of specimens. Mn coating on most specimens. |
| 20 | 17 JUL | 2018- 27°42' N 2315 | 61°10' W | 5390- 5386 | | ~70 pounds. Spheroidal Mn nodules from 2cm - 15cm in diameter. Pieces of broken Mnpossibly crust; conglomerates of semi-consolidated clay with Mn and basaltic-type rock (probably). Large worm tubes in sediment (1cm x 5cm ⁺). Other pieces of basaltic rockMn coating on most. Note: 1) Mn coating inside of worm tubes. 2) Angularity of basalt in conglomerate. |
| 21 | 18 JUL | 1130- 28°02' N 1341 | 61°00' W | 5028- 5161 | 190 | 15-25 pounds of Mn nodules and crust. Nodules are both smooth and rough in tex- ture. Some fragments of crust. Very small quantity of what appears to be ba- saltic rock. |
| 22 | 19 JUL | 1200- 22°41' N 1330 | 61°05' W | 5330 | 191 | 1 Mn nodule8cm in diameter and a Mn coated shark tooth. |
| 23 | 21 JUL | 1551- 27°04' N 1730 | 60°28' W | 5891 - 5725 | | Few Mn nodulesprimarily fine-grained igneous rock coated with Mn crust. Some indurated clay. |
| X 24A | 22 JUL | 1014- 26°56' N 1108 | 61°23' W | 5877 - 5725 | | Empty. |
| 54 | 22 JUL | 1345- 26°56' N 1608 | 61°23' W | 5754- 5913- 5924 | 193 | Several Mn nodules. Most fall into 5cm diameter range or 2cm diameter range. One small rock as well. |

| DREC NO. | | DATE 1972 | LOCAL TIME | LATITUDE | LONGITUD | CORRECTED E DEPTH (M) | CORE NO. | AMOUNT OF DREDGE |
|--------------|-------------|--------------|-----------------------|----------|----------|--------------------------|-------------|--|
| 25 | 24 | 4 JUL | 1215- 1330 | 27°35' N | 60°24' w | 5536- 5631 | 196 | One 15cm x 10cm piece of either Mn crust (well rounded) or nodulecoarse texture. Several smaller pieces of both coarse and smooth textured pieces of Mn. Other sizes 8cm x 8cm x 3cm and ~3cm x 2cm. ~5 pounds total weight. Larger pieces homogeneous throughout. Corner broken to determine. |
| × 26A | 4 2 | 5 JUL | 1655- 1730 | 27°32' N | 60°25' W | 5802- 5716 | 197 | Empty. |
| 26 | 20 | S JUL | 1005 - 1115 | 27°34' N | 60°22† W | 5745- 5706 5781 | | One 10cm x 5cm x 5cm piece of igneous rock. Fine-grainedprobably basalt. Several layers of Mn crust on one side of rock. |
| X 274 | A 20 | 5 JUL | 1706- 1851 | 27°33' N | 60°16' W | 5482- 5273 | 198 | Empty. |
| | ,? . | ŢJUL | 1014- 1253 | | 61°04' W | 5509- 5160 | 199 | 100 pounds of Mn materialprimarily crust; a few small nodules (1cm diameter); both smooth and coarse textured. Crust material is primarily coarse, evidence of worm burrows on several pieces. Clay adhering to some. Some pieces of indurated clay also collected. On some of the pieces is a white material, not carbonate or organic. |
| . 28 | 28 | 3 JUL | 1515- 1632 | 28°02' N | 61°00' W | 5105- 5557 | 200 | ~100 pounds. Nodules ranging from .5cm to 15cm in diameter. Bulk fall in 8cm to 4cm diameter range. All sizes exhibit coarse and smooth texture. Some Mn crust and several shark's teeth coated with Mn. |

| DREDGE NO. | DATE 1972 | LOCAL TIME LATII | TUDE LONGITUDE | | CORE NO. | AMOUNT OF DREDGE |
|---------------|--------------|---------------------|----------------|-----------------------|-------------|---|
| 29 | 1 AUG | 0950- 29°10 1045 | 0' N 61°10' W | 5491 - 5593 | | 3 small nodules: 2 lcm diameter and 1 3cm diameter. Smooth texture. |
| X 30A | 1 AUG | 1510- 29°10 1615 | o' N 61°10' W | 6158 5593 | | Empty. |