

ZOOPLANKTON VOLUMES OFF THE PACIFIC COAST, 1954



SPECIAL SCIENTIFIC REPORT-FISHERIES No. 161

**UNITED STATES DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE**

Explanatory Note

The series embodies results of investigations, usually of restricted scope, intended to aid or direct management or utilization practices and as guides for administrative or legislative action. It is issued in limited quantities for the official use of Federal, State or cooperating Agencies and in processed form for economy and to avoid delay in publication.

United States Department of the Interior, Douglas McKay, Secretary
Fish and Wildlife Service, John L. Farley, Director

ZOOPLANKTON VOLUMES
OFF THE PACIFIC COAST, 1954

Prepared by

The Staff of the South Pacific Fishery Investigations
U. S. Fish and Wildlife Service

Special Scientific Report--Fisheries No. 161.

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Zooplankton Volumes off the Pacific Coast,
1954

This report, the fifth in a series, contains a record of the volumes of zooplankton collected on the survey cruises of the California Cooperative Oceanic Fisheries Investigations off the Pacific coast of California and Baja California during 1954. Regular survey cruises were made at monthly intervals, except in September and November. The vessels participating in cruises during 1954 included the CREST, E. W. SCRIPPS, HORIZON, PAOLINA T. and SPENCER F. BAIRD, all operated by the Scripps Institution of Oceanography.

The tables in this report are designed to serve a twofold purpose: (1) to record the volumes of plankton collected during the 1954 survey cruises (columns 9 and 10), and (2) to put on record the data for all plankton tows made during 1954, including station number (column 1), location (columns 2 and 3), date and time of collection (columns 4-6), volume of water strained (column 7), and the estimated depth of the haul (column 8).

The volumes of plankton given in the following tables are "wet" volumes. Each sample was filtered from its preserving fluid and its volume determined by displacement. Two volumes are given for each station: (1) the total wet volumes standardized to the amount in 1000 cubic meters of water strained (column 9), and (2) the volume of smaller organisms after the removal of larger ones such as jellies, fish, larger mollusca, crustaceans, and squid (column 10).

The nets used in the collection of the plankton samples were the same as those used on all cruises since 1949. They were made of No. 30xxx grit gauze (an extra-strong silk bolting cloth), conical in shape, with a one-meter mouth opening, and about five meters long. The last 40 cms. of the cone, and the cod-end bags were made of No. 56xxx silk grit gauze. The procedure for taking net tows was similar to that followed since 1951. Each haul was an oblique tow made from approximately 140 meters deep to the surface (depth of water permitting).

The procedures followed in determining the volume of water strained during each haul are outlined in previous reports in this series (refer to Special Scientific Reports: Fisheries Nos. 100 and 125). The numbering system for cruises, which differs from that used in the 1949-1952 reports, is explained in Special Scientific Report: Fisheries No. 132 (Zooplankton Volumes for 1953).

The plankton samples are used in studying the early life histories (particularly the distribution and abundance of spawning and the rate of larval survival) of the sardine and other commercially important or potentially important fishes, and also in studying the productivity of sardine spawning areas. The former

is being investigated by the South Pacific Fishery Investigations of the United States Fish and Wildlife Service, the latter by the Scripps Institution of Oceanography of the University of California.

These investigations are part of the California Cooperative Oceanic Fisheries Investigations, a program sponsored by the Marine Research Committee, and carried out by the Scripps Institution of Oceanography of the University of California, the Bureau of Marine Fisheries of the California Department of Fish and Game, the California Academy of Sciences, the Hopkins Marine Station of Stanford University, and the South Pacific Fishery Investigations of the Fish and Wildlife Service.

Four earlier publications deal with plankton volumes collected on survey cruises of the California Cooperative Oceanic Fisheries Investigations. These are:

STAFF, SOUTH PACIFIC FISHERY INVESTIGATIONS

1952. Zooplankton volumes off the Pacific coast, 1951. U. S. Dept. Interior, Fish and Wildlife Service, Spec. Sci. Rept.: Fisheries No. 73, 37 pp.
1953. Zooplankton volumes off the Pacific coast, 1952. U. S. Dept. Interior, Fish and Wildlife Service, Spec. Sci. Rept.: Fisheries No. 100, 41 pp.
1954. Zooplankton volumes off the Pacific coast, 1949-50. U. S. Dept. Interior, Fish and Wildlife Service, Spec. Sci. Rept.: Fisheries No. 125, 54 pp.
1954. Zooplankton volumes off the Pacific coast, 1953. U. S. Dept. Interior, Fish and Wildlife Service, Spec. Sci. Rept.: Fisheries No. 132, 38 pp.

Plankton Volumes, Cruise 5401, January 1954

| Sta. | Position | | (1954) Date | Time (PST) | | Vol. water strained C.M. | Depth of haul in meters | Vol.per 1000 C.M.strained Total Sm.org. | |
|--------|----------|-----------|----------------|------------|-------------|-----------------------------------|-------------------------------|---|-----|
| | N.lat. | W.long. | | Start | End | | | cc. | cc. |
| 77.50 | 35°03.4' | 120°53.2' | I-9 | 2327 | 2338 | 430 | 0-96 | 165 | 165 |
| 77.55 | 34°54.2' | 121°12.6' | I-9 | 2056 | 2110 | 543 | 0-133 | 140 | 140 |
| 80.51 | 34°26.5' | 120°32.2' | I-10 | 0413 | 0418 | 218 | 0-32 | 64 | 64 |
| 80.55 | 34°17.6' | 120°49.0' | I-10 | 0736 | 0750 | 578 | 0-118 | 31 | 31 |
| 80.60 | 34°09.6' | 121°08.7' | I-10 | 0951 | 1005 | 495 | 0-144 | 75 | 75 |
| 80.70 | 33°48.4' | 121°49.5' | I-10 | 1606 | 1620 | 433 | 0-154 | 69 | 69 |
| 80.80 | 33°21.5' | 122°31.5' | I-10 | 2101 | 2115 | 550 | 0-120 | 131 | 131 |
| 80.90 | 32°57.2' | 123°13.5' | I-11 | 0306 | 0321 | 526 | 0-141 | 59 | 59 |
| 80.100 | 32°32.0' | 123°56.0' | I-11 | 0701 | 0725 | 562 | 0-121 | 34 | 34 |
| 80.110 | 32°25.2' | 124°35.0' | I-11 | 1326 | 1341 | 525 | 0-144 | 50 | 50 |
| 82.47 | 34°14.3' | 119°58.8' | I-8 | 2216 | 2230 | 547 | 0-128 | 66 | 66 |
| 83.40 | 34°13.6' | 119°22.0' | I-8 | 1704 | 1707 | 196 | 0-11 | 117 | 117 |
| 83.43 | 34°08.0' | 119°34.0' | I-8 | 1906 | 1920 | 525 | 0-144 | 57 | 57 |
| 83.48 | 33°57.8' | 119°54.5' | I-9 | 0043 | 0050 | 241 | 0-60 | 87 | 87 |
| 83.51 | 33°51.6' | 120°08.5' | I-9 | 0326 | 0340 | 478 | 0-126 | 61 | 61 |
| 83.55 | 33°40.8' | 120°27.6' | I-9 | 0601 | 0616 | 533 | 0-129 | 103 | 103 |
| 83.60 | 33°33.0' | 120°45.7' | I-9 | 0926 | 0940 | 557 | 0-132 | 307 | 307 |
| 85.39 | | | Occupied. | | Sample lost | | | | |
| 85.40 | 33°56.8' | 119°10.8' | I-8 | 1325 | 1341 | 557 | 0-116 | 41 | 41 |
| 85.45 | 33°47.0' | 119°31.6' | I-8 | 1101 | 1115 | 528 | 0-144 | 42 | 42 |
| 85.50 | 33°27.5' | 119°54.8' | I-8 | 0701 | 0715 | 504 | 0-138 | 113 | 113 |
| 85.55 | 33°27.5' | 120°12.5' | I-8 | 0356 | 0410 | 543 | 0-145 | 203 | 203 |
| 85.60 | 33°16.5' | 120°33.5' | I-8 | 0006 | 0021 | 575 | 0-124 | 226 | 226 |
| 87.35 | 33°50.0' | 118°37.4' | I-5 | 2301 | 2316 | 614 | 0-88 | 46 | 46 |
| 87.40 | 33°39.5' | 118°59.5' | I-6 | 0256 | 0311 | 621 | 0-95 | 35 | 35 |
| 87.45 | 33°28.5' | 119°21.4' | I-6 | 0541 | 0556 | 543 | 0-117 | 66 | 66 |
| 87.50 | 33°20.5' | 119°40.5' | I-6 | 0813 | 0820 | 316 | 0-50 | 32 | 32 |
| 87.55 | 33°10.2' | 120°00.5' | I-7 | 1726 | 1740 | 559 | 0-125 | 63 | 63 |
| 87.60 | 33°01.0' | 120°20.5' | I-7 | 2106 | 2120 | 551 | 0-126 | 196 | 196 |
| 90.28 | 33°28.5' | 117°46.3' | I-14 | 0026 | 0040 | 564 | 0-110 | 43 | 43 |
| 90.30 | 33°24.5' | 117°55.6' | I-13 | 2256 | 2310 | 553 | 0-116 | 63 | 63 |
| 90.37 | 33°12.0' | 118°21.8' | I-13 | 1936 | 1950 | 611 | 0-101 | 62 | 62 |
| 90.45 | 32°54.4' | 118°56.0' | I-13 | 1441 | 1455 | 559 | 0-113 | 43 | 43 |
| 90.53 | 32°35.0' | 119°35.5' | I-13 | 1106 | 1120 | 489 | 0-142 | 45 | 45 |
| 90.60 | 32°27.2' | 120°01.5' | I-13 | 0631 | 0645 | 604 | 0-98 | 167 | 167 |
| 90.70 | 32°03.8' | 120°39.5' | I-13 | 0035 | 0050 | 547 | 0-125 | 29 | 29 |
| 90.80 | 31°44.0' | 121°19.0' | I-12 | 1901 | 1916 | 518 | 0-139 | 89 | 89 |
| 90.90 | 31°23.5' | 122°00.0' | I-12 | 1436 | 1450 | 564 | 0-101 | 80 | 80 |
| 90.100 | 31°03.5' | 122°37.0' | I-12 | 0826 | 0841 | 660 | 0-115 | 39 | 39 |
| 90.110 | 30°45.0' | 123°15.0' | I-12 | 0346 | 0401 | 525 | 0-145 | 46 | 46 |
| 93.27 | 32°56.8' | 117°19.0' | I-14 | 0513 | 0521 | 336 | 0-45 | 48 | 48 |
| 93.30 | 32°49.5' | 117°31.5' | I-14 | 0731 | 0745 | 510 | 0-119 | 47 | 47 |
| 93.40 | 32°28.0' | 118°14.2' | I-14 | 1226 | 1240 | 492 | 0-127 | 47 | 47 |
| 93.50 | 32°10.0' | 118°56.0' | I-14 | 1806 | 1820 | 494 | 0-132 | 219 | 219 |
| 93.60 | 31°48.5' | 119°32.0' | I-14 | 2230 | 2245 | 564 | 0-107 | 603 | 603 |

Plankton Volumes, Cruise 5401, January 1954 (cont'd)

| Sta. | Position | | (1954) Date | Time (PST) | | Vol. water strained C.M. | Depth of haul in meters | Vol. per 1000 C.M. strained Total Sm.org. | |
|---------|----------|-----------|----------------|------------|----------------|-----------------------------------|-------------------------------|---|-----|
| | N.lat. | W.long. | | Start | End | | | cc. | cc. |
| 97.30 | 32°14.9' | 117°08.7' | I-15 | 1914 | 1918 | 174 | 0-22 | 34 | 34 |
| 97.32 | 32°11.5' | 117°18.8' | I-15 | 1751 | 1805 | 495 | 0-129 | 61 | 61 |
| 97.40 | 31°54.5' | 117°52.2' | I-15 | 1336 | 1350 | 474 | 0-133 | 78 | 78 |
| 97.50 | 31°28.0' | 118°28.0' | I-15 | 0821 | 0835 | 560 | 0-107 | 214 | 214 |
| 97.60 | 31°14.5' | 119°07.5' | I-15 | 0341 | 0356 | 507 | 0-123 | 67 | 67 |
| 100.29 | 31°41.9' | 116°43.5' | I-15 | 2357 | 0010 | 474 | 0-127 | 42 | 42 |
| 100.30 | 31°40.5' | 116°47.0' | I-16 | 0041 | 0055 | 497 | 0-117 | 38 | 38 |
| 100.40 | 31°21.0' | 117°28.0' | I-16 | 0501 | 0515 | 520 | 0-123 | 65 | 65 |
| 100.50 | 30°59.0' | 118°10.0' | I-16 | 1031 | 1045 | 622 | 0-93 | 222 | 222 |
| 100.60 | 30°39.0' | 118°47.0' | I-16 | 1501 | 1516 | 509 | 0-122 | 133 | 133 |
| 100.70 | 30°19.5' | 119°27.5' | I-16 | 2056 | 2111 | 470 | 0-130 | 215 | 215 |
| 100.80 | 29°59.0' | 120°07.0' | I-17 | 0141 | 0156 | 593 | 0-105 | 138 | 138 |
| 100.90 | 29°33.8' | 120°54.0' | I-17 | 0746 | 0801 | 493 | 0-124 | 49 | 49 |
| 103.30 | 31°05.5' | 116°26.0' | I-22 | 0108 | 0115 | 241 | 0-71 | 41 | 41 |
| 103.35 | 30°55.0' | 116°45.0' | I-21 | 2211 | 2226 | 530 | 0-126 | 75 | 75 |
| 103.40 | 30°45.0' | 117°06.0' | I-20 | 2046 | 2100 | 509 | 0-122 | 67 | 67 |
| 103.50 | 30°23.0' | 117°51.0' | I-20 | 1511 | 1526 | 508 | 0-133 | 71 | 71 |
| 103.60 | 30°01.0' | 118°25.0' | I-20 | 1121 | 1135 | 577 | 0-111 | 166 | 166 |
| 107.32 | 30°26.9' | 116°11.5' | I-19 | 1151 | 1205 | 492 | 0-129 | 57 | 57 |
| 107.35 | 30°20.4' | 116°22.2' | I-19 | 1421 | 1436 | 476 | 0-138 | 172 | 172 |
| 107.40 | 30°11.0' | 116°43.5' | I-19 | 1726 | 1740 | 593 | 0-104 | 71 | 71 |
| 107.50 | | | Occupied. | | Sample spoiled | | | | |
| 107.60 | 29°26.5' | 118°02.0' | I-20 | 0441 | 0455 | 568 | 0-115 | 84 | 84 |
| 110.33 | 29°51.2' | 115°51.4' | I-19 | 0718 | 0725 | 276 | 0-54 | 33 | 33 |
| 110.35 | 29°46.5' | 116°00.6' | I-19 | 0541 | 0555 | 556 | 0-108 | 36 | 36 |
| 110.40 | 29°36.8' | 116°18.3' | I-19 | 0306 | 0321 | 492 | 0-124 | 20 | 20 |
| 110.50 | 29°14.5' | 117°01.0' | I-18 | 2126 | 2140 | 495 | 0-123 | 57 | 57 |
| 110.60 | 28°56.0' | 117°39.5' | I-18 | 1636 | 1650 | 535 | 0-114 | 114 | 114 |
| 110.70 | 28°35.0' | 118°19.0' | I-18 | 1051 | 1105 | 563 | 0-105 | 44 | 44 |
| 110.80 | 28°19.5' | 118°54.0' | I-18 | 0646 | 0700 | 474 | 0-128 | 59 | 59 |
| 110.90 | 27°57.8' | 119°35.0' | I-18 | 0116 | 0130 | 539 | 0-113 | 126 | 126 |
| 110.100 | 27°41.5' | 120°05.5' | I-17 | 2126 | 2141 | 516 | 0-121 | 72 | 72 |
| 113.30 | 29°22.5' | 115°17.5' | I-20 | 0644 | 0648 | 124 | 0-34 | 81 | 81 |
| 113.35 | 29°12.0' | 115°39.0' | I-20 | 0431 | 0446 | 467 | 0-139 | 90 | 90 |
| 113.40 | 29°02.0' | 115°58.5' | I-20 | 0126 | 0140 | 519 | 0-128 | 46 | 46 |
| 113.50 | 28°42.0' | 116°37.0' | I-19 | 2126 | 2141 | (447) | 0-146 | 72 | 72 |
| 117.26 | 28°56.0' | 114°41.0' | I-19 | 0433 | 0440 | 257 | 0-63 | 55 | 55 |
| 117.30 | 28°46.0' | 114°55.0' | I-19 | 0627 | 0638 | 338 | 0-98 | 24 | 24 |
| 117.35 | 28°38.0' | 115°16.0' | I-19 | 0901 | 0916 | 474 | 0-125 | 38 | 38 |
| 117.40 | 28°28.5' | 115°35.0' | I-19 | 1156 | 1210 | 465 | 0-137 | 34 | 34 |
| 117.50 | 28°08.0' | 116°15.0' | I-19 | 1606 | 1621 | 449 | 0-137 | 16 | 16 |
| 120.25 | 28°23.0' | 114°14.0' | I-19 | 0044 | 0048 | (160) | 0-37 | 75 | 75 |
| 120.30 | 28°13.0' | 114°34.0' | I-18 | 2218 | 2226 | 245 | 0-65 | 57 | 57 |
| 120.35 | 28°03.0' | 114°54.0' | I-18 | 2013 | 2021 | 246 | 0-65 | 53 | 53 |
| 120.45 | 27°43.5' | 115°33.5' | I-18 | 1541 | 1556 | 481 | 0-129 | 37 | 37 |

Plankton Volumes, Cruise 5401, January 1954 (cont'd)

| Sta. | Position | | (1954) Date | Time (PST) | | Vol. water strained C.M. | Depth of haul in meters | Vol. per 1000 C.M. strained Total Sm.org. | |
|---------|----------|-----------|----------------|------------|------|-----------------------------------|-------------------------------|---|-----|
| | N.lat. | W.long. | | Start | End | | | cc. | cc. |
| 120.50 | 27°33.5' | 115°52.0' | I-18 | 1316 | 1330 | (463) | 0-137 | 35 | 35 |
| 120.60 | 27°13.0' | 116°31.5' | I-18 | 0756 | 0811 | 461 | 0-136 | 43 | 43 |
| 120.70 | 26°54.0' | 117°14.0' | I-18 | 0316 | 0330 | 453 | 0-137 | 115 | 115 |
| 120.80 | 26°32.0' | 117°51.0' | I-17 | 2141 | 2156 | 493 | 0-125 | 138 | 138 |
| 120.120 | 25°12.5' | 120°22.0' | I-7 | 1416 | 1430 | 459 | 0-147 | 78 | 78 |
| 123.37 | 27°23.5' | 114°41.0' | I-16 | 1743 | 1751 | 267 | 0-63 | 172 | 172 |
| 123.40 | 27°18.0' | 114°51.5' | I-17 | 0321 | 0335 | 450 | 0-141 | 182 | 182 |
| 123.50 | 26°57.5' | 115°30.0' | I-17 | 0741 | 0755 | 482 | 0-131 | 66 | 66 |
| 123.60 | 26°37.0' | 116°08.5' | I-17 | 1241 | 1255 | 405 | 0-146 | 94 | 94 |
| 127.34 | 26°55.0' | 114°05.5' | I-16 | 1318 | 1326 | 237 | 0-71 | 59 | 59 |
| 127.40 | 26°44.5' | 114°25.0' | I-16 | 1046 | 1101 | 450 | 0-137 | 107 | 107 |
| 127.50 | 26°22.0' | 115°10.5' | I-16 | 0546 | 0601 | 460 | 0-155 | 117 | 117 |
| 127.60 | 26°03.5' | 115°46.5' | I-16 | 0036 | 0050 | 465 | 0-144 | 103 | 103 |
| 130.30 | 26°26.5' | 113°29.0' | I-15 | 0633 | 0640 | 241 | 0-72 | 133 | 133 |
| 130.35 | 26°19.0' | 113°49.0' | I-15 | 0836 | 0851 | 463 | 0-128 | 91 | 91 |
| 130.40 | 26°11.5' | 114°08.5' | I-15 | 1141 | 1156 | 435 | 0-148 | 51 | 51 |
| 130.50 | 25°50.0' | 114°46.0' | I-15 | 1536 | 1550 | 477 | 0-126 | 84 | 84 |
| 130.60 | 25°31.0' | 115°25.0' | I-15 | 2021 | 2036 | 419 | 0-148 | 239 | 239 |
| 130.110 | 23°48.0' | 118°33.5' | I-8 | 0426 | 0441 | 460 | 0-142 | 26 | 26 |
| 133.25 | 26°04.5' | 112°48.0' | I-15 | 0118 | 0126 | 262 | 0-66 | 69 | 69 |
| 133.30 | 25°55.0' | 113°07.0' | I-14 | 2256 | 2311 | 432 | 0-146 | 46 | 46 |
| 133.40 | 25°34.5' | 113°45.5' | I-14 | 1821 | 1835 | 508 | 0-128 | 35 | 35 |
| 133.50 | 25°13.0' | 114°27.0' | I-14 | 1336 | 1350 | 442 | 0-145 | 72 | 72 |
| 137.23 | 25°34.0' | 112°18.5' | I-13 | 1938 | 1946 | 247 | 0-70 | 105 | 105 |
| 137.30 | 25°21.0' | 112°46.0' | I-13 | 2136 | 2251 | 453 | 0-135 | 106 | 106 |
| 137.40 | 25°02.5' | 113°25.0' | I-14 | 0341 | 0355 | 455 | 0-141 | 53 | 53 |
| 137.50 | 24°39.0' | 114°02.5' | I-14 | 0801 | 0816 | 480 | 0-133 | 54 | 54 |
| 137.140 | 21°40.0' | 119°41.0' | I-8 | 2006 | 2021 | 451 | 0-137 | 55 | 55 |
| 140.30 | 24°46.0' | 112°24.0' | I-13 | 1352 | 1403 | 423 | 0-123 | 123 | 123 |
| 140.35 | 24°35.5' | 112°43.0' | I-13 | 1141 | 1155 | 488 | 0-127 | 33 | 33 |
| 140.40 | 24°27.0' | 112°59.0' | I-13 | 0851 | 0906 | 474 | 0-131 | 17 | 17 |
| 140.50 | 24°08.5' | 113°41.0' | I-13 | 0441 | 0455 | 466 | 0-143 | 124 | 124 |
| 140.110 | 22°06.0' | 117°25.0' | I-9 | 1041 | 1056 | 445 | 0-141 | 36 | 36 |
| 143.26 | 24°21.5' | 111°49.0' | I-12 | 0748 | 0755 | 249 | 0-67 | 104 | 104 |
| 143.30 | 24°13.0' | 112°04.5' | I-12 | 0601 | 0615 | 442 | 0-141 | 104 | 104 |
| 143.35 | 24°02.0' | 112°26.0' | I-12 | 0246 | 0300 | 471 | 0-138 | 85 | 85 |
| 147.20 | 23°55.5' | 111°06.5' | I-11 | 1626 | 1640 | 465 | 0-130 | 142 | 142 |
| 147.25 | 23°46.5' | 111°22.5' | I-11 | 1836 | 1850 | 439 | 0-135 | 307 | 307 |
| 147.30 | 23°38.0' | 111°47.0' | I-11 | 2211 | 2226 | 444 | 0-139 | 338 | 338 |
| 147.90 | 21°36.0' | 115°25.0' | I-10 | 0126 | 0140 | 436 | 0-139 | 46 | 46 |
| 150.19 | 23°23.5' | 110°39.0' | I-11 | 1126 | 1141 | 487 | 0-138 | 152 | 152 |
| 150.25 | 23°13.0' | 111°02.0' | I-11 | 0831 | 0846 | 442 | 0-148 | 208 | 208 |
| 150.30 | 23°04.5' | 111°22.0' | I-11 | 0526 | 0541 | 454 | 0-141 | 159 | 159 |
| 150.40 | 22°43.0' | 111°58.0' | I-11 | 0126 | 0140 | 488 | 0-136 | 41 | 41 |
| 150.50 | 22°21.0' | 112°35.0' | I-10 | 2006 | 2021 | 489 | 0-131 | 45 | 45 |
| 150.60 | 22°05.0' | 113°17.0' | I-10 | 1526 | 1540 | 465 | 0-136 | 17 | 17 |

Plankton Volumes, Cruise 5402, February 1954

| Sta. | Position | | (1954) Date | Time (PST) | | Vol. water strained C.M. | Depth of haul in meters | Vol. per 1000 C.M. strained Total Sm.org. | |
|--------|----------|-----------|----------------|------------|------|-----------------------------------|-------------------------------|---|-----|
| | N.lat. | W.long. | | Start | End | | | cc. | cc. |
| 77.50 | 35°03.5' | 120°52.0' | II-3 | 1746 | 1801 | 464 | 0-146 | 69 | 69 |
| 77.55 | 34°54.5' | 121°13.0' | II-3 | 1522 | 1537 | 482 | 0-133 | 75 | 75 |
| 80.51 | 34°26.0' | 120°33.5' | II-3 | 2221 | 2235 | 504 | 0-125 | 143 | 143 |
| 80.55 | 34°19.0' | 120°48.0' | II-4 | 0126 | 0141 | 472 | 0-134 | 351 | 351 |
| 80.60 | 34°09.0' | 121°09.0' | II-4 | 0336 | 0351 | 444 | 0-148 | 135 | 135 |
| 80.70 | 33°49.0' | 121°50.0' | II-4 | 0911 | 0925 | 416 | 0-143 | 154 | 154 |
| 80.80 | 33°29.0' | 122°32.0' | II-4 | 1311 | 1325 | 472 | 0-140 | 51 | 51 |
| 82.47 | 34°15.0' | 119°58.0' | II-5 | 0851 | 0905 | 460 | 0-136 | 152 | 152 |
| 83.40 | 34°14.0' | 119°22.0' | II-5 | 1434 | 1437 | 97 | 0-17 | 330 | 330 |
| 83.43 | 34°08.0' | 119°34.0' | II-5 | 1311 | 1325 | 473 | 0-134 | 165 | 165 |
| 83.48 | 33°58.0' | 119°55.0' | II-5 | 0546 | 0601 | 459 | 0-126 | 240 | 240 |
| 83.51 | 33°52.5' | 120°08.5' | II-5 | 0356 | 0411 | 471 | 0-133 | 81 | 81 |
| 83.55 | 33°44.0' | 120°24.5' | II-5 | 0056 | 0114 | 552 | 0-137 | 143 | 143 |
| 83.60 | 33°34.0' | 120°45.0' | II-4 | 2234 | 2248 | 385 | 0-147 | 7376 | 104 |
| 85.39 | 34°00.5' | 119°04.0' | II-5 | 1848 | 1856 | 262 | 0-79 | 80 | 80 |
| 85.40 | 33°57.0' | 119°10.5' | II-5 | 1946 | 2000 | 495 | 0-131 | 65 | 65 |
| 85.45 | 33°46.5' | 119°33.0' | II-6 | 0056 | 0111 | 519 | 0-129 | 256 | 256 |
| 85.50 | 33°36.5' | 119°53.0' | II-6 | 1406 | 1421 | 419 | 0-124 | 124 | 124 |
| 85.55 | 33°26.5' | 120°12.5' | II-6 | 1826 | 1841 | 429 | 0-146 | 135 | 135 |
| 85.60 | 33°17.0' | 120°33.5' | II-6 | 2056 | 2110 | 434 | 0-145 | 161 | 161 |
| 87.35 | 33°50.0' | 118°37.0' | II-7 | 2141 | 2155 | 475 | 0-130 | 76 | 76 |
| 87.40 | 33°40.5' | 118°58.5' | II-7 | 1906 | 1921 | 469 | 0-136 | 90 | 90 |
| 87.45 | 33°30.0' | 119°19.0' | II-7 | 1541 | 1556 | 470 | 0-124 | 60 | 60 |
| 87.50 | 33°20.0' | 119°39.0' | II-7 | 1328 | 1336 | 244 | 0-70 | 131 | 131 |
| 87.55 | 33°12.0' | 120°03.0' | II-7 | 0246 | 0300 | 455 | 0-136 | 1547 | 141 |
| 87.60 | 33°00.0' | 120°21.0' | II-7 | 0027 | 0042 | 477 | 0-128 | 304 | 304 |
| 90.28 | 33°28.5' | 117°47.0' | II-8 | 0348 | 0355 | 220 | 0-55 | 146 | 146 |
| 90.30 | 33°24.5' | 117°55.0' | II-8 | 0506 | 0521 | 478 | 0-131 | 159 | 84 |
| 90.37 | 33°11.0' | 118°23.5' | II-9 | 1246 | 1300 | 504 | 0-125 | 113 | 113 |
| 90.45 | 32°54.5' | 118°56.0' | II-9 | 1616 | 1631 | 458 | 0-139 | 175 | 100 |
| 90.55 | 32°35.0' | 119°37.0' | II-9 | 2246 | 2300 | 450 | 0-142 | 803 | 113 |
| 90.60 | 32°25.0' | 119°57.0' | II-10 | 0121 | 0136 | 490 | 0-124 | 394 | 394 |
| 90.70 | 32°05.0' | 120°38.5' | II-10 | 0706 | 0721 | 430 | 0-141 | 154 | 154 |
| 90.80 | 31°45.0' | 121°19.0' | II-10 | 1341 | 1355 | 482 | 0-133 | 95 | 95 |
| 93.27 | 32°57.0' | 117°18.5' | II-11 | 1628 | 1636 | 283 | 0-58 | 35 | 35 |
| 93.30 | 32°52.0' | 117°33.5' | II-11 | 1441 | 1456 | 486 | 0-138 | 29 | 29 |
| 93.40 | 32°30.0' | 118°12.5' | II-11 | 0921 | 0935 | 489 | 0-129 | 22 | 22 |
| 93.50 | 32°13.0' | 118°55.0' | II-11 | 0411 | 0426 | 483 | 0-125 | 1330 | 89 |
| 93.60 | 31°49.0' | 119°34.0' | II-10 | 2226 | 2240 | 526 | 0-134 | 281 | 281 |
| 97.30 | 32°15.5' | 117°10.0' | II-11 | 2038 | 2044 | 218 | 0-50 | 55 | 55 |
| 97.32 | 32°11.5' | 117°17.5' | II-11 | 2146 | 2200 | 500 | 0-125 | 60 | 60 |
| 97.40 | 31°56.0' | 117°50.0' | II-12 | 0211 | 0226 | 475 | 0-134 | 76 | 76 |
| 97.50 | 31°38.0' | 118°32.0' | II-12 | 0641 | 0656 | 482 | 0-135 | 271 | 271 |
| 97.60 | 31°14.5' | 119°12.0' | II-12 | 1141 | 1156 | 464 | 0-132 | 1424 | 237 |
| 100.29 | 31°42.0' | 116°43.5' | II-13 | 2333 | 2340 | 221 | 0-73 | 163 | 163 |

Plankton Volumes, Cruise 5402, February 1954 (cont'd)

| Sta. | Position | | (1954) Date | Time (PST) | | Vol. water strained C.M. | Depth of haul in meters | Vol. per 1000 C.M. strained | |
|--------|----------|-----------|-----------------------|------------|------|-----------------------------------|-------------------------------|--------------------------------|-----------------|
| | N. lat. | W. long. | | Start | End | | | Total cc. | Sm. org. cc. |
| 100.30 | 31°40.5' | 116°47.0' | II-13 | 2211 | 2226 | 525 | 0-139 | 99 | 99 |
| 100.40 | 31°21.5' | 117°26.5' | II-13 | 1726 | 1741 | 510 | 0-134 | 20 | 20 |
| 100.50 | 30°57.0' | 118°06.0' | II-13 | 1256 | 1310 | 464 | 0-137 | 108 | 108 |
| 100.60 | 30°39.0' | 118°45.0' | II-13 | 0731 | 0746 | 463 | 0-145 | 380 | 380 |
| 100.70 | 30°20.0' | 119°26.0' | II-13 | 0231 | 0246 | 445 | 0-141 | 225 | 225 |
| 100.80 | 30°01.0' | 120°07.0' | II-12 | 2026 | 2040 | 498 | 0-130 | 253 | 253 |
| 103.30 | 31°06.0' | 116°25.5' | II-15 | 1918 | 1926 | 273 | 0-62 | 117 | 117 |
| 103.35 | 30°56.0' | 116°44.5' | II-15 | 1636 | 1651 | 419 | 0-153 | 1552 | 1552 |
| 103.40 | 30°46.0' | 117°05.0' | II-15 | 1351 | 1406 | 442 | 0-156 | 362 | 362 |
| 103.45 | 30°37.0' | 117°22.5' | II-15 | 1051 | 1105 | 458 | 0-140 | 1527 | 1527 |
| 103.50 | 30°27.5' | 118°00.0' | II-15 | 0701 | 0716 | 454 | 0-141 | 181 | 181 |
| 103.60 | 30°07.0' | 118°26.0' | II-15 | 0236 | 0250 | 451 | 0-148 | 120 | 120 |
| 107.32 | 30°25.0' | 116°11.5' | II-14 | 0151 | 0206 | 480 | 0-134 | 62 | 62 |
| 107.35 | 30°21.0' | 116°22.0' | II-14 | 0426 | 0441 | 493 | 0-126 | 487 | 487 |
| 107.40 | 30°10.0' | 116°43.5' | II-14 | 0711 | 0726 | 426 | 0-148 | 61 | 61 |
| 107.45 | 30°00.0' | 117°03.0' | II-14 | 0951 | 1005 | 456 | 0-135 | 44 | 44 |
| 107.50 | 29°50.5' | 117°24.0' | II-14 | 1326 | 1340 | 455 | 0-145 | 114 | 114 |
| 107.60 | 29°32.0' | 118°05.0' | II-14 | 1736 | 1751 | 451 | 0-141 | 115 | 115 |
| 110.33 | 29°51.0' | 115°52.5' | II-13 | 2128 | 2136 | 263 | 0-89 | 152 | 152 |
| 110.35 | 29°46.5' | 115°58.5' | II-13 | 1951 | 2006 | 527 | 0-118 | 209 | 110 |
| 110.40 | 29°42.0' | 116°10.5' | II-13 | 1801 | 1816 | 470 | 0-128 | 162 | 162 |
| 110.45 | 29°27.0' | 116°38.0' | II-13 | 1421 | 1436 | 446 | 0-138 | 76 | 76 |
| 110.50 | 29°15.0' | 116°59.0' | II-13 | 1136 | 1151 | 424 | 0-143 | 38 | 38 |
| 110.60 | 29°04.0' | 117°43.0' | II-13 | 0706 | 0721 | 452 | 0-142 | 195 | 195 |
| 113.30 | 29°21.0' | 115°20.0' | II-12 | 0428 | 0435 | 206 | 0-58 | 107 | 107 |
| 113.35 | 29°09.5' | 115°42.0' | II-12 | 0801 | 0815 | 484 | 0-127 | 66 | 66 |
| 113.40 | 29°01.0' | 115°57.5' | II-12 | 1016 | 1031 | 475 | 0-138 | 63 | 63 |
| 113.45 | 28°52.0' | 116°19.0' | II-12 | 1256 | 1310 | 416 | 0-151 | 53 | 53 |
| 113.50 | 28°47.0' | 116°38.0' | II-12 | 1816 | 1830 | 432 | 0-145 | 46 | 46 |
| 113.60 | 28°23.0' | 117°17.0' | II-12 | 2246 | 2301 | 475 | 0-136 | 93 | 93 |
| 117.26 | | | Occupied. Sample lost | | | | | | |
| 117.30 | 28°47.5' | 114°56.0' | II-11 | 0918 | 0926 | 240 | 0-68 | 42 | 42 |
| 117.35 | 28°37.0' | 115°16.5' | II-11 | 0601 | 0616 | 466 | 0-129 | 39 | 39 |
| 117.40 | 28°28.0' | 115°36.5' | II-11 | 0256 | 0311 | 448 | 0-126 | 223 | 223 |
| 117.45 | 28°19.5' | 115°55.0' | II-10 | 2331 | 2346 | 458 | 0-127 | 70 | 70 |
| 117.50 | 28°08.0' | 116°15.0' | II-10 | 2051 | 2105 | 428 | 0-137 | 154 | 154 |
| 117.55 | 27°57.5' | 116°35.0' | II-10 | 1811 | 1826 | 456 | 0-128 | 79 | 79 |
| 117.60 | 27°46.0' | 116°55.0' | II-10 | 1546 | 1601 | 451 | 0-135 | 31 | 31 |
| 120.25 | 28°22.5' | 114°15.0' | II-8 | 1959 | 2004 | 171 | 0-35 | 70 | 70 |
| 120.30 | 28°12.5' | 114°34.0' | II-8 | 2238 | 2245 | 259 | 0-60 | 85 | 85 |
| 120.35 | 28°03.0' | 114°51.0' | II-9 | 0028 | 0035 | 282 | 0-57 | 42 | 42 |
| 120.37 | 27°59.0' | 115°03.0' | II-9 | 0238 | 0245 | 260 | 0-52 | 54 | 54 |
| 120.40 | 27°56.0' | 115°20.0' | II-9 | 0428 | 0436 | 262 | 0-63 | 358 | 358 |
| 120.42 | 27°49.0' | 115°24.0' | II-9 | 0541 | 0556 | 443 | 0-138 | 81 | 81 |
| 120.45 | 27°42.5' | 115°34.0' | II-9 | 0721 | 0736 | 443 | 0-130 | 122 | 122 |
| 120.50 | 27°32.5' | 115°51.0' | II-9 | 1051 | 1106 | 440 | 0-136 | 73 | 73 |

Plankton Volumes, Cruise 5402, February 1954 (cont'd)

| Sta. | Position | | (1954) Date | Time(PST) | | Vol. water strained C.M. | Depth of haul in meters | Vol. per 1000 C.M. strained Total Sm.org. | |
|--------|----------|-----------|----------------|-----------|------|-----------------------------------|-------------------------------|---|-----|
| | N.lat. | W.long. | | Start | End | | | cc. | cc. |
| 120.55 | 27°19.5' | 116°14.0' | II-9 | 1341 | 1356 | 454 | 0-138 | 79 | 79 |
| 120.60 | 27°10.0' | 116°31.0' | II-9 | 1611 | 1626 | 504 | 0-119 | 36 | 36 |
| 120.70 | 26°52.0' | 117°10.5' | II-10 | 0031 | 0045 | 464 | 0-127 | 91 | 91 |
| 120.80 | 26°35.0' | 118°03.0' | II-10 | 0451 | 0506 | 449 | 0-137 | 151 | 151 |
| 123.37 | 27°23.8' | 114°41.4' | II-8 | 0148 | 0156 | 259 | 0-60 | 370 | 370 |
| 123.40 | 27°17.4' | 114°52.8' | II-7 | 2351 | 0006 | 482 | 0-115 | 166 | 166 |
| 123.42 | 27°13.0' | 115°01.4' | II-7 | 2211 | 2225 | 450 | 0-139 | 222 | 222 |
| 123.45 | 27°08.5' | 115°11.0' | II-7 | 2036 | 2051 | 473 | 0-143 | 148 | 148 |
| 123.50 | 27°01.5' | 115°29.5' | II-7 | 1756 | 1811 | 542 | 0-118 | 207 | 207 |
| 127.34 | 26°55.0' | 114°06.5' | II-7 | 0333 | 0341 | 291 | 0-58 | 55 | 55 |
| 127.40 | 26°41.5' | 114°30.5' | II-7 | 0726 | 0740 | 423 | 0-148 | 71 | 71 |
| 127.45 | 26°33.5' | 114°48.5' | II-7 | 0956 | 1011 | 446 | 0-136 | 72 | 72 |
| 127.50 | 26°21.5' | 115°11.5' | II-7 | 1231 | 1246 | 513 | 0-124 | 94 | 94 |
| 130.30 | 26°30.0' | 113°27.8' | II-6 | 2318 | 2325 | 245 | 0-68 | 65 | 65 |
| 130.35 | 26°28.0' | 113°47.8' | II-6 | 2032 | 2042 | 300 | 0-94 | 80 | 80 |
| 130.40 | 26°19.5' | 114°16.0' | II-6 | 1706 | 1720 | 469 | 0-142 | 55 | 55 |
| 130.45 | 25°56.5' | 114°22.0' | II-6 | 1306 | 1320 | 539 | 0-117 | 52 | 52 |
| 130.50 | 25°46.5' | 114°44.0' | II-6 | 1056 | 1110 | 470 | 0-137 | 68 | 68 |
| 130.55 | 25°28.0' | 114°58.0' | II-6 | 0741 | 0755 | 458 | 0-132 | 183 | 183 |
| 130.60 | 25°33.0' | 115°29.0' | II-6 | 0446 | 0501 | 569 | 0-107 | 91 | 91 |
| 133.25 | 26°05.0' | 112°48.5' | II-5 | 0103 | 0110 | 273 | 0-61 | 48 | 48 |
| 133.30 | 25°53.0' | 113°11.0' | II-5 | 0428 | 0440 | 535 | 0-63 | 2698 | 107 |
| 133.35 | 25°41.5' | 113°29.5' | II-5 | 0711 | 0726 | 503 | 0-124 | 40 | 40 |
| 133.40 | 25°29.0' | 113°49.0' | II-5 | 1001 | 1015 | 514 | 0-124 | 117 | 117 |
| 137.23 | 25°37.5' | 112°20.5' | II-4 | 1638 | 1646 | 306 | 0-60 | 72 | 72 |
| 137.30 | 25°25.0' | 112°44.0' | II-4 | 2001 | 2015 | 485 | 0-133 | 54 | 54 |

Plankton Volumes, Cruise 5403, March 1954

| | | | | | | | | | |
|-------|----------|-----------|-------|------|------|-----|-------|-----|-----|
| 77.50 | 35°03.5' | 120°52.5' | III-9 | 1021 | 1036 | 491 | 0-140 | 77 | 77 |
| 77.55 | 34°54.5' | 121°10.5' | III-9 | 1306 | 1320 | 491 | 0-140 | 65 | 65 |
| 80.51 | 34°27.5' | 120°32.5' | III-9 | 0618 | 0626 | 281 | 0-66 | 463 | 463 |
| 80.55 | 34°20.0' | 120°48.5' | III-9 | 0416 | 0431 | 505 | 0-140 | 558 | 558 |
| 80.60 | 34°10.0' | 121°09.0' | III-9 | 0121 | 0135 | 491 | 0-141 | 546 | 546 |
| 80.70 | 33°49.0' | 121°51.0' | III-8 | 2141 | 2156 | 496 | 0-133 | 545 | 545 |
| 80.80 | 33°29.0' | 122°32.0' | III-8 | 1641 | 1656 | 524 | 0-136 | 183 | 183 |
| 80.90 | 33°09.5' | 123°12.0' | III-8 | 1256 | 1310 | 640 | 0-137 | 288 | 288 |
| 82.47 | 34°16.0' | 119°58.0' | III-7 | 1316 | 1330 | 542 | 0-126 | 173 | 173 |
| 83.40 | 34°14.0' | 119°22.0' | III-7 | 0819 | 0822 | 119 | 0-18 | 117 | 117 |
| 83.43 | 34°09.0' | 119°35.0' | III-7 | 1016 | 1030 | 537 | 0-133 | 60 | 60 |
| 83.48 | 33°58.5' | 119°55.5' | III-7 | 1726 | 1740 | 516 | 0-139 | 97 | 97 |
| 83.51 | 33°52.0' | 120°08.5' | III-7 | 1936 | 1950 | 468 | 0-153 | 235 | 235 |
| 83.55 | 33°44.0' | 120°24.5' | III-7 | 2131 | 2145 | 564 | 0-141 | 606 | 181 |

Plankton Volumes, Cruise 5403, March 1954 (cont'd)

| Sta. | Position | | (1954) Date | Time (PST) | | Vol. water strained C.M. | Depth of haul in meters | Vol.per 1000 C.M.strained Total Sm.org. | |
|--------|----------|-----------|----------------|------------|------|-----------------------------------|-------------------------------|---|-----|
| | N.lat. | W.long. | | Start | End | | | cc. | cc. |
| 83.60 | 33°34.0' | 120°46.0' | III-8 | 0101 | 0115 | 513 | 0-142 | 183 | 183 |
| 85.39 | 34°00.0' | 119°04.0' | III-7 | 0556 | 0611 | 562 | 0-134 | 103 | 103 |
| 85.40 | 33°57.0' | 119°10.5' | III-7 | 0401 | 0416 | 528 | 0-135 | 53 | 53 |
| 85.45 | 33°48.0' | 119°31.5' | III-7 | 0146 | 0200 | 566 | 0-132 | 92 | 92 |
| 85.50 | 33°37.0' | 119°52.5' | III-6 | 2206 | 2220 | 455 | 0-151 | 226 | 226 |
| 85.55 | 33°30.0' | 120°15.0' | III-6 | 1936 | 1951 | 499 | 0-160 | 694 | 192 |
| 85.60 | 33°18.5' | 120°39.0' | III-6 | 1546 | 1601 | 495 | 0-157 | 517 | 42 |
| 87.35 | 33°49.5' | 118°38.5' | III-5 | 2320 | 2336 | 610 | 0-137 | 158 | 158 |
| 87.40 | 33°40.0' | 118°58.5' | III-6 | 0220 | 0234 | 541 | 0-141 | 65 | 65 |
| 87.45 | 33°30.0' | 119°19.0' | III-6 | 0501 | 0516 | 458 | 0-156 | 157 | 157 |
| 87.50 | 33°20.0' | 119°39.0' | III-6 | 0748 | 0756 | 249 | 0-71 | 587 | 587 |
| 87.55 | 33°10.0' | 120°00.5' | III-6 | 1016 | 1031 | 501 | 0-144 | 166 | 166 |
| 87.60 | 33°02.5' | 120°24.0' | III-6 | 1330 | 1344 | 485 | 0-164 | 470 | 470 |
| 90.28 | 33°28.5' | 117°47.0' | III-10 | 0547 | 0557 | 350 | 0-89 | 46 | 46 |
| 90.30 | 33°24.5' | 117°55.0' | III-10 | 0646 | 0701 | 508 | 0-143 | 130 | 130 |
| 90.37 | 33°11.0' | 118°23.5' | III-10 | 1036 | 1051 | 523 | 0-150 | 42 | 42 |
| 90.45 | 32°56.5' | 118°54.5' | III-10 | 1406 | 1420 | 531 | 0-141 | 64 | 64 |
| 90.55 | 32°35.0' | 119°36.5' | III-10 | 2035 | 2051 | 494 | 0-146 | 452 | 452 |
| 90.60 | 32°25.0' | 119°57.5' | III-10 | 2316 | 2331 | 589 | 0-135 | 200 | 200 |
| 90.70 | 32°04.0' | 120°40.0' | III-11 | 0540 | 0556 | 591 | 0-138 | 183 | 183 |
| 90.80 | | | Not occupied | | | | | | |
| 90.90 | | | Not occupied | | | | | | |
| 93.27 | 32°56.0' | 117°19.0' | III-12 | 0837 | 0848 | 392 | 0-97 | 66 | 66 |
| 93.30 | 32°50.0' | 117°31.5' | III-12 | 0651 | 0706 | 480 | 0-148 | 42 | 42 |
| 93.40 | 32°26.5' | 118°11.0' | III-12 | 0106 | 0120 | 545 | 0-142 | 64 | 64 |
| 93.50 | | | Not occupied | | | | | | |
| 93.60 | | | Not occupied | | | | | | |
| 93.70 | 31°29.0' | 120°19.5' | III-11 | 1116 | 1130 | 622 | 0-122 | 80 | 80 |
| 97.30 | 32°15.4' | 117°08.8' | III-18 | 1829 | 1834 | 114 | 0-28 | 158 | 158 |
| 97.32 | 32°11.5' | 117°17.0' | III-18 | 1711 | 1725 | 634 | 0-97 | 77 | 77 |
| 97.40 | 31°57.8' | 117°51.0' | III-18 | 1246 | 1301 | 519 | 0-130 | 42 | 42 |
| 97.50 | 31°37.0' | 118°30.1' | III-18 | 0834 | 0848 | 496 | 0-144 | 48 | 48 |
| 97.60 | 31°16.5' | 119°09.2' | III-18 | 0351 | 0405 | 524 | 0-122 | 170 | 170 |
| 97.70 | 30°55.0' | 119°50.5' | III-17 | 2316 | 2331 | 429 | 0-147 | 103 | 103 |
| 100.29 | 31°42.1' | 116°44.5' | III-16 | 0553 | 0559 | 405 | 0-20 | 49 | 49 |
| 100.30 | 31°40.5' | 116°46.4' | III-16 | 0642 | 0657 | 562 | 0-116 | 46 | 46 |
| 100.35 | 31°31.8' | 117°04.3' | III-16 | 0844 | 0858 | 500 | 0-138 | 44 | 44 |
| 100.40 | 31°19.7' | 117°29.2' | III-16 | 1106 | 1120 | 538 | 0-130 | 76 | 76 |
| 100.45 | 31°11.8' | 117°46.0' | III-16 | 1304 | 1319 | 505 | 0-133 | 47 | 47 |
| 100.50 | 31°03.4' | 118°02.8' | III-16 | 1511 | 1526 | 514 | 0-125 | 136 | 136 |
| 100.55 | 30°52.8' | 118°26.0' | III-16 | 1851 | 1906 | 580 | 0-111 | 188 | 174 |
| 100.60 | 30°40.9' | 118°48.0' | III-16 | 2126 | 2141 | 502 | 0-126 | 285 | 285 |
| 100.70 | 30°24.3' | 119°24.7' | III-17 | 0151 | 0206 | 544 | 0-122 | 75 | 66 |
| 100.80 | 30°01.0' | 120°07.8' | III-17 | 0804 | 0818 | 506 | 0-129 | 99 | 99 |
| 100.90 | 29°39.1' | 120°46.8' | III-17 | 1336 | 1351 | 537 | 0-125 | 30 | 30 |

Plankton Volumes, Cruise 5403, March 1954 (cont'd)

| Sta. | Position | | (1954) Date | Time (PST) | | Vol. water strained C.M. | Depth of haul in meters | Vol. per 1000 C.M. strained Total Sm.org. | |
|--------|----------|-----------|----------------|------------|------|-----------------------------------|-------------------------------|---|-----|
| | N.lat. | W.long. | | Start | End | | | cc. | cc. |
| 103.30 | 31°06.8' | 116°27.5' | III-16 | 0114 | 0120 | 227 | 0-52 | 48 | 48 |
| 103.35 | 30°59.3' | 116°46.6' | III-15 | 2256 | 2310 | 517 | 0-120 | 50 | 50 |
| 103.40 | 30°49.1' | 117°06.8' | III-15 | 1940 | 1954 | 502 | 0-129 | 58 | 58 |
| 103.45 | 30°39.0' | 117°25.9' | III-15 | 1731 | 1745 | 482 | 0-142 | 139 | 139 |
| 103.50 | 30°26.2' | 117°48.0' | III-15 | 1514 | 1528 | 538 | 0-131 | 47 | 47 |
| 103.55 | 30°15.9' | 118°08.3' | III-15 | 1251 | 1306 | 486 | 0-137 | 53 | 53 |
| 103.60 | 30°09.8' | 118°23.2' | III-15 | 1016 | 1030 | 513 | 0-132 | 43 | 43 |
| 107.32 | 30°25.5' | 116°10.5' | III-14 | 1456 | 1510 | 610 | 0-109 | 26 | 26 |
| 107.35 | 30°19.4' | 116°23.0' | III-14 | 1555 | 1610 | 602 | 0-100 | 55 | 55 |
| 107.40 | 30°09.8' | 116°43.7' | III-14 | 2014 | 2028 | 489 | 0-139 | 59 | 59 |
| 107.45 | 30°00.0' | 117°04.0' | III-14 | 2236 | 2251 | 523 | 0-126 | 86 | 86 |
| 107.50 | 29°50.0' | 117°24.2' | III-15 | 0106 | 0121 | 522 | 0-127 | 90 | 73 |
| 107.55 | 29°41.0' | 117°44.0' | III-15 | 0421 | 0436 | 605 | 0-100 | 109 | 109 |
| 107.60 | 29°28.9' | 118°05.6' | III-15 | 0606 | 0621 | 523 | 0-124 | 71 | 71 |
| 110.33 | 29°50.7' | 115°52.6' | III-14 | 1008 | 1016 | 270 | 0-61 | 44 | 44 |
| 110.35 | 29°43.1' | 115°59.7' | III-14 | 0829 | 0843 | 481 | 0-130 | 33 | 33 |
| 110.40 | 29°30.0' | 116°25.7' | III-14 | 0341 | 0356 | 571 | 0-114 | 54 | 54 |
| 110.45 | 29°20.0' | 116°43.0' | III-14 | 0106 | 0120 | 467 | 0-141 | 32 | 32 |
| 110.50 | 29°10.5' | 117°01.2' | III-13 | 2241 | 2255 | 461 | 0-149 | 33 | 33 |
| 110.55 | 29°00.1' | 117°19.0' | III-13 | 2041 | 2055 | 462 | 0-146 | 56 | 56 |
| 110.60 | 28°56.0' | 117°39.2' | III-13 | 1646 | 1701 | 687 | 0-84 | 44 | 44 |
| 110.70 | 28°25.6' | 118°18.2' | III-13 | 1136 | 1151 | 477 | 0-130 | 36 | 36 |
| 110.80 | 28°14.8' | 118°45.5' | III-13 | 0626 | 0640 | 526 | 0-123 | 19 | 19 |
| 113.30 | 29°22.5' | 115°17.5' | III-12 | 0203 | 0210 | 227 | 0-55 | 554 | 554 |
| 113.32 | 29°17.0' | 115°28.7' | III-12 | 0323 | 0330 | 271 | 0-73 | 668 | 668 |
| 113.35 | 29°11.1' | 115°39.7' | III-12 | 0446 | 0500 | 657 | 0-93 | 32 | 32 |
| 113.37 | 29°05.7' | 115°47.9' | III-12 | 0801 | 0815 | 494 | 0-126 | 22 | 22 |
| 113.40 | 29°00.9' | 115°57.7' | III-12 | 0950 | 1004 | 452 | 0-143 | 22 | 22 |
| 113.42 | 28°55.9' | 116°07.5' | III-12 | 1110 | 1124 | 448 | 0-127 | 18 | 18 |
| 113.45 | 28°50.9' | 116°17.3' | III-12 | 1220 | 1235 | 474 | 0-135 | 21 | 21 |
| 113.47 | 28°47.6' | 116°28.2' | III-12 | 1356 | 1411 | 491 | 0-138 | 16 | 16 |
| 113.50 | 28°44.9' | 116°42.9' | III-12 | 1541 | 1556 | 571 | 0-111 | 33 | 33 |
| 113.55 | 28°35.3' | 116°58.5' | III-12 | 1856 | 1911 | 439 | 0-147 | 41 | 41 |
| 113.60 | 28°24.9' | 117°18.2' | III-12 | 2141 | 2155 | 436 | 0-151 | 78 | 78 |
| 117.26 | 28°57.0' | 114°40.7' | III-11 | 1859 | 1905 | 269 | 0-33 | 268 | 268 |
| 117.28 | 28°51.8' | 114°47.2' | III-11 | 1759 | 1805 | 274 | 0-37 | 33 | 33 |
| 117.30 | 28°47.0' | 114°55.2' | III-11 | 1608 | 1615 | 262 | 0-55 | 99 | 99 |
| 117.32 | 28°42.5' | 115°05.7' | III-11 | 1435 | 1443 | 245 | 0-76 | 12 | 12 |
| 117.35 | 28°37.8' | 115°16.0' | III-11 | 1301 | 1316 | 561 | 0-130 | 34 | 34 |
| 117.37 | 28°32.8' | 115°26.2' | III-11 | 1118 | 1133 | 562 | 0-116 | 20 | 20 |
| 117.40 | 28°27.6' | 115°35.8' | III-11 | 0856 | 0910 | 613 | 0-102 | 39 | 39 |
| 117.42 | 28°23.0' | 115°47.7' | III-11 | 0716 | 0731 | 538 | 0-127 | 19 | 19 |
| 117.45 | 28°22.4' | 115°57.4' | III-11 | 0526 | 0540 | 560 | 0-118 | 48 | 48 |
| 117.47 | 28°16.1' | 116°07.6' | III-11 | 0326 | 0341 | 493 | 0-138 | 57 | 57 |
| 117.50 | 28°11.2' | 116°16.6' | III-11 | 0156 | 0211 | 546 | 0-128 | 40 | 40 |

Plankton Volumes, Cruise 5403, March 1954 (cont'd)

| Sta. | Position | | Time (PST) | | Vol. water strained C.M. | Depth of haul in meters | Vol. per 1000 C.M. strained Total Sm.org. | | |
|--------|-----------------------------------|-----------|-------------|-------|--------------------------|-------------------------|---|-----|-----|
| | N.lat. | W.long. | (1954) Date | Start | | | End | cc. | cc. |
| 117.55 | 27°59.0' | 116°35.3' | III-10 | 2116 | 2131 | 540 | 0-148 | 46 | 46 |
| 117.60 | 27°47.5' | 116°54.0' | III-10 | 1946 | 2000 | 546 | 0-120 | 44 | 44 |
| 120.25 | 28°22.7' | 114°14.9' | III-8 | 1753 | 1759 | 275 | 0-30 | 36 | 36 |
| 120.27 | Occupied. Sample not quantitative | | | | | | | | |
| 120.30 | 28°11.9' | 114°34.5' | III-8 | 2045 | 2053 | 304 | 0-60 | 43 | 43 |
| 120.32 | 28°07.2' | 114°43.7' | III-8 | 2153 | 2200 | 339 | 0-52 | 21 | 21 |
| 120.35 | 28°03.2' | 114°53.3' | III-8 | 2259 | 2304 | 242 | 0-34 | 29 | 29 |
| 130.37 | 27°59.7' | 115°04.8' | III-9 | 0124 | 0129 | 213 | 0-43 | 23 | 23 |
| 130.40 | 27°56.2' | 115°15.2' | III-9 | 0241 | 0246 | 164 | 0-40 | 67 | 67 |
| 130.42 | 27°50.3' | 115°29.3' | III-9 | 0350 | 0404 | 477 | 0-95 | 67 | 67 |
| 120.45 | 27°40.7' | 115°38.5' | III-9 | 0526 | 0541 | 506 | 0-132 | 36 | 36 |
| 120.47 | 27°35.0' | 115°47.8' | III-9 | 0701 | 0716 | 497 | 0-141 | 24 | 24 |
| 120.50 | 27°31.5' | 115°51.8' | III-9 | 0756 | 0810 | 499 | 0-135 | 26 | 26 |
| 120.55 | 27°22.6' | 116°10.6' | III-9 | 1136 | 1151 | 519 | 0-131 | 44 | 44 |
| 120.60 | 27°13.0' | 116°31.5' | III-9 | 1408 | 1422 | 546 | 0-123 | 35 | 35 |
| 120.70 | 26°58.0' | 117°16.9' | III-9 | 1826 | 1840 | 531 | 0-129 | 40 | 40 |
| 120.80 | 26°32.5' | 117°48.5' | III-9 | 2340 | 2355 | 490 | 0-141 | 39 | 39 |
| 120.90 | 26°13.0' | 118°27.5' | III-10 | 0401 | 0416 | 601 | 0-105 | 88 | 43 |
| 123.37 | 27°24.0' | 114°39.7' | III-8 | 0828 | 0834 | 215 | 0-53 | 182 | 182 |
| 123.40 | 27°21.3' | 114°53.7' | III-8 | 0551 | 0606 | 494 | 0-141 | 85 | 85 |
| 123.42 | 27°09.1' | 115°12.6' | III-8 | 0311 | 0326 | 501 | 0-137 | 52 | 52 |
| 123.45 | 27°05.0' | 115°20.0' | III-8 | 0153 | 0208 | 525 | 0-134 | 38 | 38 |
| 123.47 | 27°00.7' | 115°28.3' | III-8 | 0014 | 0029 | 484 | 0-136 | 68 | 68 |
| 123.50 | 26°56.6' | 115°36.4' | III-7 | 2256 | 2310 | 483 | 0-145 | 131 | 131 |
| 123.55 | 26°48.4' | 115°51.7' | III-7 | 2011 | 2026 | 555 | 0-124 | 81 | 81 |
| 123.60 | 26°38.3' | 116°09.4' | III-7 | 1656 | 1710 | 537 | 0-124 | 60 | 60 |
| 127.34 | 26°55.1' | 114°06.6' | III-6 | 2139 | 2144 | 158 | 0-47 | 89 | 89 |
| 127.37 | 26°48.4' | 114°17.7' | III-6 | 2321 | 2336 | 485 | 0-138 | 70 | 70 |
| 127.40 | 26°41.8' | 114°29.7' | III-7 | 0104 | 0119 | 519 | 0-138 | 66 | 66 |
| 127.42 | 26°35.2' | 114°39.9' | III-7 | 0224 | 0239 | 509 | 0-136 | 45 | 45 |
| 127.45 | 26°28.5' | 114°51.0' | III-7 | 0400 | 0415 | 483 | 0-139 | 41 | 27 |
| 127.47 | 26°28.8' | 115°02.3' | III-7 | 0537 | 0552 | 483 | 0-143 | 27 | 27 |
| 127.50 | 26°18.5' | 115°13.0' | III-7 | 0706 | 0721 | 466 | 0-144 | 34 | 34 |
| 127.55 | 26°12.5' | 115°27.2' | III-7 | 0956 | 1010 | 468 | 0-137 | 36 | 36 |
| 127.60 | 26°04.2' | 115°45.0' | III-7 | 1225 | 1236 | 504 | 0-134 | 38 | 38 |
| 130.30 | 26°29.7' | 113°28.8' | III-6 | 1659 | 1704 | 228 | 0-43 | 140 | 140 |
| 130.35 | 26°19.0' | 113°48.5' | III-6 | 1356 | 1410 | 538 | 0-137 | 56 | 56 |
| 130.40 | 26°06.8' | 114°08.9' | III-6 | 1026 | 1041 | 490 | 0-139 | 67 | 67 |
| 130.45 | 25°59.7' | 114°27.2' | III-6 | 0806 | 0820 | 525 | 0-131 | 65 | 65 |
| 130.50 | 25°45.5' | 114°50.5' | III-6 | 0511 | 0526 | 513 | 0-130 | 58 | 58 |
| 130.55 | 25°34.9' | 115°08.9' | III-6 | 0256 | 0311 | 584 | 0-117 | 135 | 135 |
| 130.60 | 25°04.0' | 115°26.9' | III-5 | 2346 | 0001 | 548 | 0-125 | 66 | 66 |
| 133.25 | 26°03.2' | 112°54.9' | III-5 | 0539 | 0550 | 302 | 0-98 | 132 | 132 |
| 133.30 | 25°55.7' | 113°07.8' | III-5 | 0816 | 0830 | 522 | 0-118 | 59 | 59 |
| 133.35 | 25°44.2' | 113°26.7' | III-5 | 1026 | 1040 | 517 | 0-142 | 48 | 48 |

Plankton Volumes, Cruise 5403, March 1954 (cont'd)

| Sta. | Position | | (1954) Date | Time (PST) | | Vol. water strained C.M. | Depth of haul in meters | Vol. per 1000 C.M. strained Total Sm.org. | |
|--------|----------|-----------|----------------|------------|------|-----------------------------------|-------------------------------|---|-----|
| | N. lat. | W. long. | | Start | End | | | cc. | cc. |
| 133.40 | 25°34.8' | 113°45.5' | III-5 | 1231 | 1245 | 517 | 0-140 | 19 | 19 |
| 133.45 | 25°24.7' | 114°04.7' | III-5 | 1450 | 1504 | 479 | 0-142 | 40 | 40 |
| 133.50 | 25°14.9' | 114°24.5' | III-5 | 1811 | 1826 | 525 | 0-133 | 44 | 44 |
| 137.23 | 25°34.3' | 112°18.7' | III-5 | 0114 | 0120 | 240 | 0-54 | 213 | 213 |
| 137.30 | 25°20.0' | 112°45.4' | III-4 | 2144 | 2159 | 520 | 0-144 | 102 | 102 |
| 137.35 | 25°12.1' | 113°05.7' | III-4 | 1916 | 1931 | 513 | 0-141 | 80 | 80 |
| 137.40 | 25°01.3' | 113°26.3' | III-4 | 1656 | 1711 | 505 | 0-137 | 55 | 16 |
| 137.45 | 24°50.0' | 113°44.8' | III-4 | 1336 | 1351 | 541 | 0-138 | 44 | 44 |
| 137.50 | 24°40.0' | 114°02.0' | III-4 | 1141 | 1156 | 499 | 0-139 | 40 | 40 |

Plankton Volumes, Cruise 5404, April 1954

| | | | | | | | | | |
|-------|----------|-----------|------------------------------------|------|------|-------|-------|------|------|
| 60.55 | 37°44.7' | 123°13.6' | IV-11 | 1531 | 1546 | 498 | 0-138 | 189 | 189 |
| 60.60 | 37°42.0' | 123°42.2' | IV-11 | 1156 | 1210 | 559 | 0-123 | 84 | 84 |
| 60.70 | 37°19.8' | 124°24.6' | IV-11 | 0751 | 0806 | 595 | 0-108 | 126 | 126 |
| 60.80 | 36°57.8' | 125°04.0' | IV-11 | 0321 | 0336 | (517) | 0-128 | 68 | 68 |
| 60.90 | 36°44.2' | 125°31.3' | IV-11 | 0021 | 0036 | (529) | 0-120 | 134 | 134 |
| 63.52 | 37°19.0' | 122°36.2' | IV-13 | 1123 | 1130 | 289 | 0-56 | 170 | 170 |
| 63.55 | 37°14.0' | 122°49.5' | IV-13 | 1236 | 1251 | 502 | 0-133 | 132 | 132 |
| 67.50 | 36°49.0' | 122°04.6' | IV-13 | 1946 | 1959 | 619 | 0-68 | 528 | 528 |
| 67.55 | 36°37.3' | 122°27.3' | IV-13 | 1726 | 1740 | 530 | 0-126 | 194 | 194 |
| 70.51 | | | Occupied. No biological data taken | | | | | | |
| 70.55 | 36°05.8' | 121°56.9' | IV-9 | 1131 | 1146 | 601 | 0-114 | 165 | 165 |
| 70.60 | 35°50.3' | 122°22.0' | IV-9 | 1441 | 1456 | 484 | 0-136 | 385 | 174 |
| 70.70 | 35°33.3' | 123°13.9' | IV-9 | 1926 | 1941 | 571 | 0-105 | 294 | 270 |
| 70.80 | | | Occupied. No biological data taken | | | | | | |
| 70.90 | 34°56.5' | 124°32.3' | IV-10 | 0316 | 0331 | 556 | 0-127 | 252 | 241 |
| 73.50 | 35°37.2' | 121°18.6' | IV-14 | 0401 | 0416 | 496 | 0-140 | 81 | 81 |
| 73.60 | 35°18.9' | 121°58.1' | IV-14 | 0746 | 0800 | 560 | 0-102 | 209 | 209 |
| 77.50 | 35°03.8' | 120°52.2' | IV-14 | 2103 | 2110 | 290 | 0-64 | 380 | 380 |
| 77.55 | 34°54.8' | 121°13.6' | IV-14 | 1736 | 1751 | 467 | 0-129 | 2019 | 2019 |
| 77.65 | 34°34.0' | 121°55.0' | IV-14 | 1321 | 1336 | 502 | 0-132 | 98 | 98 |
| 80.51 | 34°26.5' | 120°32.5' | IV-15 | 0103 | 0111 | 300 | 0-58 | 609 | 609 |
| 80.55 | 34°19.0' | 120°48.0' | IV-15 | 0240 | 0255 | 508 | 0-114 | 181 | 181 |
| 80.60 | 34°09.8' | 121°11.6' | IV-15 | 0601 | 0616 | 497 | 0-121 | 161 | 161 |
| 80.70 | 33°48.4' | 121°50.2' | IV-15 | 0936 | 0950 | 468 | 0-137 | 193 | 178 |
| 80.80 | 33°29.8' | 122°32.8' | IV-15 | 1426 | 1441 | 509 | 0-124 | 399 | 116 |
| 80.90 | 33°10.1' | 123°10.3' | IV-15 | 1756 | 1810 | 504 | 0-125 | 105 | 105 |
| 82.47 | 34°15.0' | 119°58.0' | IV-16 | 2126 | 2140 | 480 | 0-140 | 196 | 196 |
| 83.40 | 34°14.1' | 119°21.9' | IV-17 | 0224 | 0227 | 150 | 0-11 | 481 | 481 |
| 83.43 | 34°08.0' | 119°34.0' | IV-17 | 0011 | 0026 | 554 | 0-118 | 235 | 235 |
| 83.48 | 33°58.3' | 119°55.0' | IV-16 | 1927 | 1937 | 363 | 0-78 | 201 | 201 |
| 83.51 | 33°52.3' | 120°08.6' | IV-16 | 1707 | 1718 | 408 | 0-102 | 206 | 206 |
| 83.55 | 33°44.0' | 120°24.5' | IV-16 | 1521 | 1536 | 497 | 0-126 | 211 | 211 |
| 83.60 | 33°42.3' | 120°51.6' | IV-16 | 1211 | 1225 | 468 | 0-136 | 248 | 226 |

Plankton Volumes, Cruise 5404, April 1954 (cont'd)

| Sta. | Position | | (1954) Date | Time (PST) | | Vol. water strained C.M. | Depth of haul in meters | Vol. per 1000 C.M. strained Total Sm.org. | |
|-------|----------|-----------|----------------|------------|----------------|-----------------------------------|-------------------------------|---|-----|
| | N.lat. | W.long. | | Start | End | | | cc. | cc. |
| 83.70 | 33°24.0' | 121°23.1' | IV-16 | 0901 | 0916 | 548 | 0-114 | 206 | 194 |
| 83.80 | 32°58.0' | 122°08.2' | IV-16 | 0251 | 0306 | 480 | 0-138 | 77 | 77 |
| 83.90 | 32°33.6' | 122°50.0' | IV-15 | 2241 | 2256 | 526 | 0-119 | 65 | 65 |
| 85.39 | 34°00.0' | 119°04.6' | IV-8 | 0441 | 0456 | 515 | 0-107 | 188 | 188 |
| 85.40 | 33°57.5' | 119°11.8' | IV-8 | 0336 | 0351 | 547 | 0-113 | 227 | 227 |
| 85.45 | 33°47.0' | 119°31.2' | IV-7 | 2236 | 2251 | 450 | 0-146 | 71 | 71 |
| 85.50 | 33°37.0' | 119°50.5' | IV-7 | 2016 | 2030 | 557 | 0-117 | 502 | 144 |
| 85.55 | 33°27.2' | 120°06.6' | IV-7 | 1612 | 1626 | 516 | 0-131 | 219 | 54 |
| 85.60 | 33°17.0' | 120°33.5' | IV-7 | 1326 | 1341 | 519 | 0-136 | 287 | 196 |
| 87.35 | 33°50.3' | 118°37.2' | IV-17 | 0621 | 0635 | 499 | 0-128 | 786 | 339 |
| 87.40 | 33°40.0' | 118°58.3' | IV-17 | 0840 | 0854 | 470 | 0-133 | 111 | 81 |
| 87.45 | 33°30.3' | 119°19.0' | IV-17 | 1134 | 1149 | 488 | 0-136 | 254 | 254 |
| 87.50 | 33°21.3' | 119°41.1' | IV-17 | 1400 | 1408 | 289 | 0-59 | 221 | 152 |
| 87.55 | 33°10.0' | 120°00.5' | IV-17 | 1621 | 1635 | 460 | 0-143 | 233 | 217 |
| 87.60 | 32°58.8' | 120°20.8' | IV-17 | 1836 | 1851 | 465 | 0-134 | 480 | 334 |
| 87.70 | 32°36.3' | 121°01.5' | IV-17 | 2341 | 2356 | 513 | 0-125 | 195 | 195 |
| 87.80 | 32°14.9' | 121°41.8' | IV-18 | 0341 | 0356 | 494 | 0-129 | 109 | 109 |
| 87.90 | 31°53.0' | 122°22.5' | IV-18 | 0831 | 0846 | 513 | 0-123 | 27 | 27 |
| 90.28 | 33°28.5' | 117°46.7' | IV-19 | 1951 | 2005 | 508 | 0-118 | 372 | 224 |
| 90.30 | 33°24.6' | 117°53.7' | IV-19 | 1839 | 1854 | 533 | 0-109 | 512 | 512 |
| 90.37 | 33°11.4' | 118°24.2' | IV-19 | 1456 | 1510 | 465 | 0-138 | 75 | 75 |
| 90.45 | 32°53.5' | 118°52.7' | IV-19 | 1126 | 1140 | 600 | 0-93 | 195 | 77 |
| 90.55 | 32°31.7' | 119°30.5' | IV-19 | 0601 | 0616 | 475 | 0-132 | 158 | 158 |
| 90.60 | 32°21.9' | 119°52.2' | IV-19 | 0326 | 0340 | 525 | 0-122 | 139 | 139 |
| 90.70 | 32°02.9' | 120°34.0' | IV-18 | 2113 | 2127 | 479 | 0-132 | 138 | 138 |
| 90.80 | 31°43.2' | 121°16.3' | IV-18 | 1721 | 1735 | 476 | 0-138 | 78 | 65 |
| 90.90 | 31°23.3' | 122°00.0' | IV-18 | 1214 | 1229 | 468 | 0-134 | 90 | 90 |
| 93.27 | 32°56.0' | 117°19.0' | IV-9 | 1957 | 2007 | 360 | 0-88 | 350 | 350 |
| 93.30 | 32°50.0' | 117°31.5' | IV-9 | 2312 | 2328 | 534 | 0-134 | 124 | 124 |
| 93.35 | 32°39.3' | 117°51.7' | IV-10 | 0156 | 0210 | 482 | 0-140 | 174 | 174 |
| 93.40 | 32°30.0' | 118°12.5' | IV-10 | 0541 | 0555 | 514 | 0-147 | 126 | 126 |
| 93.45 | 32°22.0' | 118°30.2' | IV-10 | 0856 | 0911 | 496 | 0-142 | 85 | 67 |
| 93.50 | 32°10.0' | 118°53.0' | IV-10 | 1411 | 1426 | 480 | 0-148 | 33 | 38 |
| 93.55 | 31°59.0' | 119°14.5' | IV-10 | 1711 | 1725 | 395 | 0-156 | 63 | 63 |
| 93.60 | 31°48.0' | 119°35.5' | IV-10 | 2056 | 2110 | 457 | 0-153 | 269 | 191 |
| 93.70 | 31°25.0' | 120°20.0' | IV-11 | 0411 | 0425 | 428 | 0-152 | 112 | 84 |
| 93.80 | 31°02.0' | 121°05.0' | IV-11 | 0956 | 1010 | 485 | 0-144 | 54 | 54 |
| 93.90 | 30°47.0' | 121°35.0' | IV-11 | 1506 | 1520 | 450 | 0-144 | 47 | 47 |
| 97.30 | 32°15.7' | 117°09.0' | IV-13 | 0848 | 0854 | 201 | 0-38 | 433 | 433 |
| 97.32 | | | Occupied. | | Sample spoiled | | | | |
| 97.40 | 31°55.0' | 117°49.0' | IV-13 | 0311 | 0325 | 482 | 0-141 | 91 | 91 |
| 97.45 | 31°45.2' | 118°08.5' | IV-12 | 2326 | 2340 | 484 | 0-140 | 62 | 62 |
| 97.50 | 31°35.0' | 118°29.2' | IV-12 | 2011 | 2026 | 441 | 0-144 | 68 | 68 |
| 97.55 | 31°25.2' | 118°50.0' | IV-12 | 1711 | 1726 | 487 | 0-144 | 312 | 127 |
| 97.60 | 31°16.2' | 119°07.5' | IV-12 | 1431 | 1446 | 463 | 0-137 | 467 | 130 |

Plankton Volumes, Cruise 5404, April 1954 (cont'd)

| Sta. | Position | | (1954) Date | Time (PST) | | Vol. water strained C.M. | Depth of haul in meters | Vol. per 1000 C.M. strained Total Sm.org. | |
|---------|----------|-----------|-----------------------------------|------------|------|-----------------------------------|-------------------------------|---|-----|
| | N.lat. | W.long. | | Start | End | | | cc. | cc. |
| 97.70 | 30°56.0' | 119°48.5' | IV-12 | 0806 | 0821 | 501 | 0-144 | 283 | 98 |
| 97.80 | 30°35.5' | 120°30.0' | IV-12 | 0226 | 0240 | 480 | 0-149 | 129 | 129 |
| 97.90 | 30°15.0' | 121°10.0' | IV-11 | 1941 | 1956 | 505 | 0-143 | 40 | 40 |
| 100.29 | 31°42.3' | 116°43.5' | IV-14 | 1819 | 1822 | 164 | 0-35 | 244 | 244 |
| 100.30 | 31°40.4' | 116°46.3' | IV-14 | 1906 | 1920 | 503 | 0-134 | 52 | 52 |
| 100.35 | 31°31.0' | 117°06.5' | IV-14 | 2201 | 2215 | 484 | 0-140 | 157 | 157 |
| 100.40 | 31°19.5' | 117°25.8' | IV-15 | 0056 | 0110 | 485 | 0-137 | 66 | 66 |
| 100.45 | 31°09.0' | 117°45.0' | IV-15 | 0346 | 0401 | 503 | 0-140 | 81 | 50 |
| 100.50 | 30°58.5' | 118°03.8' | IV-15 | 0831 | 0845 | 463 | 0-140 | 35 | 35 |
| 100.55 | 30°49.0' | 118°22.1' | IV-15 | 1131 | 1145 | 475 | 0-136 | 38 | 38 |
| 100.60 | 30°38.5' | 118°42.0' | IV-15 | 1426 | 1440 | 460 | 0-138 | 50 | 50 |
| 100.70 | 30°20.5' | 119°26.5' | IV-15 | 2141 | 2154 | 422 | 0-123 | 135 | 135 |
| 100.80 | 30°04.0' | 120°03.5' | IV-16 | 0241 | 0255 | 436 | 0-140 | 71 | 71 |
| 100.90 | 29°47.0' | 120°40.0' | IV-16 | 0941 | 0956 | 468 | 0-136 | 43 | 43 |
| 100.100 | 29°28.0' | 121°22.5' | IV-16 | 1526 | 1541 | 461 | 0-137 | 22 | 22 |
| 103.30 | 31°05.2' | 116°25.1' | IV-19 | 1124 | 1129 | 174 | 0-41 | 231 | 231 |
| 103.35 | 30°55.2' | 116°45.2' | IV-19 | 1356 | 1411 | 443 | 0-140 | 45 | 45 |
| 103.40 | 30°45.0' | 117°17.5' | IV-19 | 1726 | 1741 | 465 | 0-152 | 43 | 43 |
| 103.45 | 30°35.5' | 117°25.0' | IV-19 | 2006 | 2020 | 475 | 0-139 | 63 | 63 |
| 103.50 | 30°25.5' | 117°45.0' | IV-19 | 2246 | 2300 | 473 | 0-144 | 53 | 53 |
| 103.55 | 30°15.5' | 118°05.0' | IV-20 | 0146 | 0200 | 402 | 0-156 | 72 | 72 |
| 103.60 | 30°06.0' | 118°25.0' | IV-20 | 0541 | 0555 | 496 | 0-146 | 60 | 60 |
| 103.70 | 29°44.0' | 119°02.8' | IV-17 | 1041 | 1056 | 475 | 0-143 | 29 | 29 |
| 103.80 | 29°25.0' | 119°43.0' | IV-17 | 0431 | 0444 | 369 | 0-119 | 46 | 46 |
| 103.90 | | | Occupied. Sample not quantitative | | | | | | |
| 107.32 | 30°21.8' | 116°11.0' | IV-19 | 0421 | 0435 | 427 | 0-134 | 145 | 145 |
| 107.35 | 30°15.0' | 116°25.4' | IV-19 | 0151 | 0205 | 422 | 0-154 | 69 | 55 |
| 107.40 | 30°07.0' | 116°44.8' | IV-18 | 2206 | 2220 | 411 | 0-151 | 32 | 32 |
| 107.45 | 29°59.0' | 117°04.5' | IV-18 | 1905 | 1921 | 449 | 0-146 | 60 | 60 |
| 107.50 | 29°51.3' | 117°24.2' | IV-18 | 1611 | 1626 | 404 | 0-147 | 62 | 62 |
| 107.55 | 29°43.5' | 117°42.5' | IV-18 | 1211 | 1226 | 424 | 0-146 | 42 | 42 |
| 107.60 | 29°32.5' | 118°02.5' | IV-17 | 0856 | 0910 | 424 | 0-149 | 80 | 80 |
| 107.70 | 29°05.0' | 118°43.0' | IV-17 | 2216 | 2230 | 432 | 0-147 | 56 | 56 |
| 107.80 | 28°52.0' | 119°20.0' | IV-17 | 1646 | 1700 | 461 | 0-136 | 35 | 35 |
| 110.33 | 29°48.5' | 115°52.8' | IV-28 | 0437 | 0449 | 488 | 0-97 | 61 | 61 |
| 110.35 | 29°45.8' | 116°00.0' | IV-28 | 0611 | 0626 | 434 | 0-138 | 37 | 37 |
| 110.40 | 29°33.8' | 116°17.5' | IV-28 | 0816 | 0830 | 443 | 0-139 | 52 | 52 |
| 110.45 | 29°27.7' | 116°33.5' | IV-28 | 1211 | 1226 | 485 | 0-140 | 21 | 21 |
| 110.50 | 29°16.3' | 117°00.0' | IV-28 | 1451 | 1506 | 480 | 0-142 | 38 | 38 |
| 110.55 | 29°07.7' | 117°25.5' | IV-28 | 1706 | 1720 | 470 | 0-143 | 51 | 51 |
| 110.60 | 28°57.8' | 117°47.0' | IV-28 | 2006 | 2020 | 442 | 0-149 | 38 | 38 |
| 110.70 | 28°36.2' | 118°18.0' | IV-28 | 2341 | 2356 | 537 | 0-129 | 39 | 39 |
| 110.80 | 28°15.7' | 118°52.8' | IV-29 | 0426 | 0441 | 466 | 0-149 | 60 | 60 |
| 110.90 | 27°54.5' | 119°27.0' | IV-29 | 0846 | 0900 | 465 | 0-132 | 37 | 37 |
| 113.30 | 29°24.3' | 115°18.9' | IV-30 | 1439 | 1444 | 125 | 0-50 | 466 | 466 |

Plankton Volumes, Cruise 5404, April 1954 (cont'd)

| Sta. | Position | | (1954) Date | Time (PST) | | Vol. water strained C.M. | Depth of haul in meters | Vol. per 1000 C.M. strained Total Sm.org. | |
|--------|----------|-----------|----------------|------------|------|-----------------------------------|-------------------------------|---|-----|
| | N. lat. | W. long. | | Start | End | | | cc. | cc. |
| 113.32 | 29°19.2' | 115°29.4' | IV-30 | 1318 | 1327 | 299 | 0-82 | 60 | 60 |
| 113.35 | 29°13.3' | 115°41.8' | IV-30 | 1136 | 1151 | 519 | 0-144 | 35 | 35 |
| 113.37 | 29°08.5' | 115°51.7' | IV-30 | 0921 | 0936 | 443 | 0-148 | 27 | 27 |
| 113.40 | 29°04.0' | 116°01.3' | IV-30 | 0801 | 0815 | 436 | 0-152 | 25 | 25 |
| 113.42 | 28°59.4' | 116°10.9' | IV-30 | 0646 | 0700 | 425 | 0-151 | 28 | 28 |
| 113.45 | 28°56.3' | 116°17.5' | IV-30 | 0541 | 0556 | 460 | 0-141 | 26 | 26 |
| 113.47 | 28°51.3' | 116°26.9' | IV-30 | 0416 | 0430 | 483 | 0-141 | 54 | 54 |
| 113.50 | 28°45.3' | 116°37.4' | IV-30 | 0256 | 0310 | 525 | 0-120 | 65 | 65 |
| 113.55 | 28°34.1' | 116°56.7' | IV-29 | 2346 | 0001 | 454 | 0-144 | 46 | 46 |
| 113.60 | 28°23.2' | 117°16.9' | IV-29 | 2131 | 2146 | 438 | 0-151 | 64 | 64 |
| 113.70 | 28°02.2' | 117°55.5' | IV-29 | 1736 | 1750 | 437 | 0-156 | 37 | 37 |
| 117.26 | 28°55.5' | 114°42.0' | IV-16 | 0343 | 0349 | 192 | 0-55 | 573 | 573 |
| 117.28 | 28°52.0' | 114°48.5' | IV-16 | 0503 | 0511 | 241 | 0-65 | 282 | 282 |
| 117.30 | 28°48.0' | 114°56.5' | IV-16 | 0628 | 0637 | 292 | 0-76 | 325 | 325 |
| 117.32 | 28°42.0' | 115°05.0' | IV-16 | 0822 | 0833 | 347 | 0-110 | 170 | 170 |
| 117.35 | 28°36.5' | 115°15.0' | IV-16 | 1026 | 1040 | 433 | 0-142 | 65 | 65 |
| 117.37 | 28°32.0' | 115°25.5' | IV-16 | 1221 | 1236 | 468 | 0-130 | 81 | 81 |
| 117.40 | 28°26.5' | 115°36.0' | IV-16 | 1402 | 1417 | 467 | 0-136 | 64 | 64 |
| 117.42 | 28°24.0' | 115°46.5' | IV-16 | 1641 | 1656 | 479 | 0-134 | 27 | 27 |
| 117.45 | 28°19.0' | 115°56.0' | IV-16 | 1811 | 1826 | 487 | 0-132 | 70 | 70 |
| 117.47 | 28°14.0' | 116°06.0' | IV-16 | 1956 | 2010 | 473 | 0-135 | 95 | 95 |
| 117.50 | 28°08.5' | 116°15.5' | IV-16 | 2141 | 2155 | 481 | 0-135 | 91 | 91 |
| 117.55 | 27°57.0' | 116°35.0' | IV-17 | 0041 | 0055 | 456 | 0-141 | 75 | 75 |
| 117.60 | 27°46.0' | 116°54.0' | IV-17 | 0348 | 0403 | 387 | 0-137 | 34 | 34 |
| 117.70 | 27°24.5' | 117°32.0' | IV-17 | 0956 | 1010 | 459 | 0-139 | 703 | 50 |
| 120.25 | 28°24.5' | 114°16.0' | IV-15 | 2218 | 2224 | 210 | 0-55 | 315 | 315 |
| 120.27 | 28°18.0' | 114°24.0' | IV-15 | 2053 | 2100 | 215 | 0-71 | 503 | 503 |
| 120.30 | 28°13.0' | 114°34.0' | IV-15 | 1908 | 1916 | 138 | 0-75 | 405 | 405 |
| 120.32 | 28°08.0' | 114°44.5' | IV-15 | 1658 | 1705 | 237 | 0-64 | 190 | 190 |
| 120.35 | 28°03.0' | 114°54.0' | IV-15 | 1510 | 1518 | 251 | 0-72 | 367 | 367 |
| 120.37 | 27°58.5' | 115°03.5' | IV-15 | 1354 | 1359 | 126 | 0-39 | 779 | 779 |
| 120.40 | 27°58.0' | 115°16.5' | IV-15 | 1204 | 1209 | 147 | 0-35 | 564 | 564 |
| 120.42 | 27°47.0' | 115°23.5' | IV-15 | 0946 | 1000 | 348 | 0-130 | 253 | 253 |
| 120.45 | 27°39.0' | 115°30.0' | IV-15 | 0801 | 0815 | 346 | 0-135 | 321 | 321 |
| 120.47 | 27°35.0' | 115°40.0' | IV-15 | 0511 | 0526 | 396 | 0-128 | 394 | 394 |
| 120.50 | 27°31.0' | 115°52.0' | IV-15 | 0226 | 0240 | 360 | 0-135 | 384 | 384 |
| 120.55 | 27°22.0' | 116°11.0' | IV-14 | 2346 | 0001 | 420 | 0-126 | 67 | 67 |
| 120.60 | 27°13.0' | 116°32.0' | IV-14 | 2046 | 2100 | 408 | 0-135 | 59 | 59 |
| 120.70 | 26°52.0' | 117°11.0' | IV-14 | 1520 | 1535 | 421 | 0-125 | 57 | 57 |
| 123.37 | 27°24.0' | 114°40.0' | IV-13 | 1719 | 1724 | 176 | 0-53 | 899 | 899 |
| 123.40 | 27°18.0' | 114°51.5' | IV-13 | 1856 | 1911 | 381 | 0-140 | 452 | 452 |
| 123.42 | 27°13.0' | 115°01.0' | IV-13 | 2116 | 2130 | 418 | 0-132 | 146 | 146 |
| 123.45 | 27°08.0' | 115°10.5' | IV-13 | 2301 | 2315 | 380 | 0-131 | 369 | 369 |
| 123.47 | 27°03.3' | 115°20.2' | IV-14 | 0056 | 0110 | 353 | 0-136 | 198 | 198 |
| 123.50 | 26°58.0' | 115°30.5' | IV-14 | 0246 | 0300 | 380 | 0-137 | 149 | 149 |
| 123.55 | 26°48.0' | 115°46.0' | IV-14 | 0524 | 0541 | 384 | 0-137 | 70 | 70 |

Plankton Volumes, Cruise 5404, April 1954 (cont'd)

| Sta. | Position | | (1954) Date | Time (PST) | | Vol. water strained C.M. | Depth of haul in meters | Vol.per 1000 C.M.strained Total Sm.org. | |
|--------|----------|-----------|----------------|------------|------|-----------------------------------|-------------------------------|---|-----|
| | N.lat. | W.long. | | Start | End | | | cc. | cc. |
| 123.60 | 26°38.0' | 116°09.0' | IV-14 | 0806 | 0820 | 427 | 0-120 | 87 | 87 |
| 127.34 | 26°54.0' | 114°08.0' | IV-12 | 2053 | 2102 | 248 | 0-70 | 563 | 563 |
| 127.37 | 26°49.5' | 114°17.3' | IV-12 | 1901 | 1916 | 357 | 0-144 | 205 | 205 |
| 127.40 | 26°44.5' | 114°28.0' | IV-12 | 1711 | 1725 | 377 | 0-140 | 154 | 154 |
| 127.42 | 26°39.0' | 114°39.5' | IV-12 | 1521 | 1536 | 341 | 0-144 | 296 | 296 |
| 127.45 | 26°34.0' | 114°49.0' | IV-12 | 1346 | 1401 | 387 | 0-132 | 163 | 163 |
| 127.47 | 26°23.0' | 115°00.0' | IV-12 | 1131 | 1145 | 406 | 0-132 | 52 | 52 |
| 127.50 | 26°24.0' | 115°07.0' | IV-12 | 0830 | 0844 | 441 | 0-125 | 36 | 36 |
| 127.55 | 26°13.5' | 115°27.0' | IV-12 | 0531 | 0546 | 291 | 0-138 | 89 | 89 |
| 127.60 | 26°04.0' | 115°46.0' | IV-12 | 0221 | 0236 | 404 | 0-137 | 89 | 89 |
| 130.30 | 26°29.0' | 113°30.5' | IV-11 | 0238 | 0246 | 215 | 0-69 | 847 | 847 |
| 130.35 | 26°19.0' | 113°48.5' | IV-11 | 0526 | 0541 | 380 | 0-143 | 103 | 103 |
| 130.40 | 26°09.0' | 114°06.0' | IV-11 | 0831 | 0845 | 435 | 0-122 | 55 | 55 |
| 130.45 | 25°54.5' | 114°27.5' | IV-11 | 1206 | 1220 | 412 | 0-130 | 73 | 73 |
| 130.50 | 25°48.5' | 114°46.5' | IV-11 | 1456 | 1510 | 419 | 0-128 | 64 | 64 |
| 130.55 | 25°37.0' | 115°08.0' | IV-11 | 1736 | 1751 | 395 | 0-138 | 172 | 172 |
| 130.60 | 25°29.0' | 115°24.0' | IV-11 | 2016 | 2030 | 380 | 0-141 | 108 | 108 |
| 133.25 | 26°06.0' | 112°50.5' | IV-10 | 2113 | 2121 | 252 | 0-71 | 940 | 940 |
| 133.30 | 25°56.0' | 113°08.5' | IV-10 | 1806 | 1820 | 449 | 0-120 | 210 | 210 |
| 133.35 | 25°46.0' | 113°27.5' | IV-10 | 1456 | 1510 | 432 | 0-130 | 120 | 120 |
| 133.40 | 25°35.5' | 113°46.0' | IV-10 | 1201 | 1216 | 434 | 0-131 | 23 | 23 |
| 133.45 | 25°25.0' | 114°05.0' | IV-10 | 0916 | 0930 | 462 | 0-129 | 30 | 30 |
| 133.50 | 25°14.5' | 114°24.0' | IV-10 | 0551 | 0606 | 433 | 0-126 | 62 | 62 |
| 133.60 | 24°54.0' | 115°02.0' | IV-10 | 0046 | 0100 | 415 | 0-140 | 84 | 84 |
| 137.23 | 25°34.0' | 112°19.0' | IV-8 | 2223 | 2230 | 230 | 0-70 | 985 | 985 |
| 137.30 | 25°20.0' | 112°45.5' | IV-9 | 0211 | 0225 | 404 | 0-141 | 208 | 208 |
| 137.35 | 25°10.0' | 113°04.5' | IV-9 | 0506 | 0521 | 406 | 0-144 | 194 | 155 |
| 137.40 | 25°00.0' | 113°23.5' | IV-9 | 0806 | 0820 | 393 | 0-137 | 97 | 97 |
| 137.45 | 24°48.0' | 113°42.5' | IV-9 | 1156 | 1210 | 447 | 0-130 | 60 | 60 |
| 137.50 | 24°37.5' | 114°02.0' | IV-9 | 1441 | 1456 | 442 | 0-128 | 68 | 68 |
| 137.60 | 24°19.5' | 114°39.5' | IV-9 | 1916 | 1921 | 470 | 0-120 | 77 | 77 |

Plankton Volumes, Cruise 5405, May 1954

| | | | | | | | | | |
|-------|----------|-----------|------|------|------|-----|-------|------|-----|
| 60.55 | 37°48.0' | 123°15.0' | V-10 | 1313 | 1321 | 296 | 0-75 | 230 | 230 |
| 60.60 | 37°37.0' | 123°37.0' | V-10 | 1656 | 1712 | 500 | 0-142 | 192 | 192 |
| 60.70 | 37°18.0' | 124°21.0' | V-10 | 2121 | 2136 | 497 | 0-139 | 1040 | 997 |
| 60.90 | 36°57.0' | 125°04.5' | V-11 | 0348 | 0402 | 535 | 0-117 | 941 | 941 |
| 60.90 | 36°37.0' | 125°47.0' | V-11 | 0831 | 0846 | 442 | 0-147 | 294 | 240 |
| 63.52 | 37°20.0' | 122°38.0' | V-9 | 1157 | 1205 | 261 | 0-58 | 161 | 161 |
| 63.55 | 37°16.0' | 122°50.5' | V-9 | 1020 | 1035 | 544 | 0-125 | 99 | 99 |
| 67.50 | 36°49.0' | 122°05.5' | V-9 | 0138 | 0146 | 308 | 0-64 | 227 | 227 |
| 67.55 | 36°40.0' | 122°24.0' | V-9 | 0436 | 0450 | 493 | 0-144 | 246 | 246 |
| 70.51 | 36°10.5' | 121°46.0' | V-13 | 0055 | 0110 | 498 | 0-126 | 109 | 109 |
| 70.55 | 36°03.0' | 122°02.0' | V-12 | 2116 | 2131 | 527 | 0-127 | 296 | 254 |

Plankton Volumes, Cruise 5405, May 1954 (cont'd)

| Sta. | Position | | (1954) Date | Time (PST) | | Vol. water strained C.M. | Depth of haul in meters | Vol. per 1000 C.M. strained Total Sm.org. | |
|-------|----------|-----------|-----------------------------------|------------|------|-----------------------------------|-------------------------------|---|------|
| | N. lat. | W. long. | | Start | End | | | cc. | cc. |
| 70.60 | 35°51.5' | 122°26.0' | V-12 | 1818 | 1833 | 450 | 0-152 | 454 | 454 |
| 70.70 | 35°35.0' | 123°12.0' | V-12 | 0916 | 0930 | 568 | 0-121 | 55 | 55 |
| 70.80 | 35°13.0' | 123°48.0' | V-12 | 0355 | 0410 | 531 | 0-145 | 79 | 79 |
| 70.90 | 34°52.5' | 124°30.0' | V-11 | 2016 | 2030 | 483 | 0-132 | 176 | 145 |
| 73.50 | 35°37.0' | 121°16.5' | V-13 | 0522 | 0531 | 348 | 0-77 | 109 | 109 |
| 73.60 | 35°18.0' | 121°58.0' | V-13 | 1051 | 1106 | 475 | 0-136 | 291 | 291 |
| 77.50 | | | Occupied. Sample not quantitative | | | | | | |
| 77.55 | 34°55.0' | 121°14.0' | V-13 | 2006 | 2011 | 471 | 0-132 | 255 | 255 |
| 77.65 | 34°35.5' | 121°54.0' | V-13 | 1526 | 1541 | 463 | 0-134 | 947 | 410 |
| 80.51 | 34°35.5' | 120°33.0' | V-14 | 0457 | 0506 | 319 | 0-79 | 273 | 273 |
| 80.55 | 34°19.0' | 120°48.0' | V-14 | 0653 | 0707 | 545 | 0-124 | 182 | 105 |
| 80.60 | 34°09.0' | 121°09.0' | V-14 | 0956 | 1010 | 510 | 0-126 | 698 | 698 |
| 80.70 | 33°48.5' | 121°50.5' | V-14 | 1443 | 1457 | 560 | 0-118 | 391 | 361 |
| 80.80 | 33°29.0' | 123°32.0' | V-14 | 2006 | 2020 | 505 | 0-132 | 91 | 91 |
| 80.90 | 33°12.5' | 123°06.0' | V-15 | 0011 | 0126 | 514 | 0-126 | 119 | 119 |
| 82.47 | 34°16.5' | 119°58.0' | V-16 | 0833 | 0847 | 472 | 0-121 | 381 | 381 |
| 83.40 | 34°14.5' | 119°22.0' | V-16 | 1429 | 1434 | 227 | 0-34 | 718 | 718 |
| 83.43 | 34°08.0' | 119°33.5' | V-16 | 1226 | 1240 | 542 | 0-119 | 1772 | 1772 |
| 83.48 | 33°58.5' | 119°55.0' | V-16 | 0558 | 0605 | 247 | 0-69 | 696 | 696 |
| 83.51 | 33°52.0' | 120°07.0' | V-16 | 0331 | 0342 | 464 | 0-78 | 284 | 284 |
| 83.55 | 33°42.5' | 120°23.5' | V-16 | 0051 | 0105 | 462 | 0-132 | 856 | 553 |
| 83.60 | 33°34.0' | 120°49.0' | V-15 | 2115 | 2129 | 508 | 0-108 | 787 | 787 |
| 83.70 | 33°14.5' | 121°26.0' | V-15 | 1601 | 1615 | 464 | 0-129 | 26 | 26 |
| 83.80 | 32°49.5' | 122°08.0' | V-15 | 1021 | 1035 | 512 | 0-129 | 166 | 166 |
| 83.90 | 32°34.0' | 122°47.5' | V-15 | 0556 | 0610 | 463 | 0-130 | 56 | 56 |
| 85.39 | 34°00.0' | 119°03.0' | V-16 | 1703 | 1710 | (405) | 0-66 | 153 | 153 |
| 85.40 | 33°57.0' | 119°10.5' | V-16 | 1831 | 1845 | 482 | 0-119 | 650 | 532 |
| 85.45 | 33°46.0' | 119°32.5' | V-16 | 2116 | 2130 | 449 | 0-132 | 423 | 359 |
| 85.50 | 33°37.0' | 119°52.0' | V-17 | 0031 | 0046 | 536 | 0-118 | 502 | 463 |
| 85.55 | 33°26.5' | 120°13.5' | V-17 | 0311 | 0325 | 514 | 0-113 | 315 | 292 |
| 85.60 | 33°16.5' | 120°34.5' | V-17 | 0641 | 0655 | 442 | 0-127 | 328 | 328 |
| 87.35 | 33°50.0' | 118°37.5' | V-17 | 1841 | 1855 | 505 | 0-108 | 259 | 259 |
| 87.40 | 33°40.5' | 118°59.0' | V-17 | 2141 | 2155 | 391 | 0-138 | 332 | 220 |
| 87.45 | 33°30.0' | 119°19.0' | V-18 | 0056 | 0110 | 428 | 0-136 | 644 | 616 |
| 87.50 | 33°20.0' | 119°39.5' | V-18 | 0333 | 0340 | 261 | 0-51 | 272 | 272 |
| 87.55 | 33°10.0' | 120°00.5' | V-18 | 0626 | 0640 | 533 | 0-116 | 253 | 253 |
| 87.60 | 33°00.0' | 120°21.5' | V-18 | 0916 | 0930 | 359 | 0-133 | 535 | 535 |
| 87.70 | 32°38.0' | 121°06.0' | V-18 | 1456 | 1510 | 434 | 0-129 | 122 | 106 |
| 87.80 | 32°19.5' | 121°46.5' | V-18 | 1916 | 1930 | 458 | 0-130 | 63 | 63 |
| 87.90 | 31°59.0' | 122°24.0' | V-19 | 0011 | 0026 | 456 | 0-129 | 96 | 96 |
| 90.28 | 33°28.5' | 117°47.0' | V-21 | 0228 | 0236 | 270 | 0-59 | 104 | 104 |
| 90.30 | 33°25.0' | 117°55.0' | V-21 | 0111 | 0125 | 475 | 0-127 | 166 | 166 |
| 90.33 | 33°17.5' | 118°09.5' | V-20 | 1321 | 1336 | 505 | 0-117 | 113 | 113 |
| 90.37 | 33°11.0' | 118°23.5' | V-20 | 1041 | 1056 | 461 | 0-133 | 285 | 243 |
| 90.41 | 33°02.5' | 118°39.3' | V-20 | 0816 | 0830 | 431 | 0-139 | 638 | 429 |

Plankton Volumes, Cruise 5405, May 1954 (cont'd)

| Sta. | Position | | (1954) Date | Time (PST) | | Vol. water strained C.M. | Depth of haul in meters | Vol. per 1000 C.M. strained | |
|---------|----------|-----------|----------------|------------|------|-----------------------------------|-------------------------------|--------------------------------|----------------|
| | N.lat. | W.long. | | Start | End | | | Total cc. | Sm.org. cc. |
| 90.45 | 32°54.5' | 118°56.0' | V-50 | 0556 | 0610 | 486 | 0-126 | 354 | 354 |
| 90.50 | 32°44.5' | 119°16.0' | V-20 | 0332 | 0344 | 403 | 0-97 | 112 | 112 |
| 90.55 | 32°35.0' | 119°36.5' | V-20 | 0011 | 0025 | 479 | 0-124 | 104 | 88 |
| 90.60 | 32°25.0' | 119°58.0' | V-19 | 2051 | 2105 | 447 | 0-136 | 351 | 295 |
| 90.70 | 32°04.5' | 120°39.0' | V-19 | 1506 | 1521 | 424 | 0-133 | 73 | 73 |
| 90.80 | 31°41.5' | 121°25.5' | V-19 | 0916 | 0930 | 404 | 0-141 | 74 | 74 |
| 90.90 | 31°26.0' | 121°58.5' | V-19 | 0456 | 0510 | 479 | 0-130 | 60 | 60 |
| 93.27 | 32°56.5' | 117°19.5' | V-21 | 0713 | 0720 | 204 | 0-70 | 103 | 103 |
| 93.30 | 32°49.5' | 117°31.5' | V-21 | 0901 | 0916 | 502 | 0-123 | 26 | 26 |
| 93.35 | 32°40.0' | 117°52.0' | V-21 | 1226 | 1241 | 490 | 0-128 | 69 | 69 |
| 93.40 | 32°30.0' | 118°12.5' | V-21 | 1511 | 1526 | 488 | 0-120 | 158 | 158 |
| 93.45 | 32°20.0' | 118°33.0' | V-21 | 1746 | 1800 | 464 | 0-128 | 67 | 67 |
| 93.50 | 32°09.5' | 118°53.0' | V-21 | 2031 | 2046 | 478 | 0-122 | 308 | 237 |
| 93.55 | 32°00.0' | 119°14.0' | V-22 | 0006 | 0021 | 485 | 0-127 | 206 | 188 |
| 93.60 | 31°49.5' | 119°34.5' | V-22 | 0246 | 0301 | 494 | 0-127 | 87 | 87 |
| 93.70 | 31°28.0' | 120°17.0' | V-22 | 0731 | 0745 | 555 | 0-112 | 65 | 65 |
| 93.80 | 31°11.0' | 120°55.5' | V-22 | 1221 | 1236 | 510 | 0-117 | 57 | 57 |
| 93.90 | 30°50.0' | 121°35.0' | V-22 | 1706 | 1720 | 513 | 0-115 | 29 | 29 |
| 97.30 | 32°15.5' | 117°09.0' | V-24 | 0738 | 0744 | 200 | 0-52 | 140 | 140 |
| 97.32 | 32°11.5' | 117°13.0' | V-24 | 0621 | 0635 | 500 | 0-120 | 40 | 40 |
| 97.36 | 32°03.5' | 117°34.0' | V-24 | 0416 | 0430 | 523 | 0-132 | 77 | 77 |
| 97.40 | 31°55.5' | 117°49.5' | V-24 | 0041 | 0056 | 466 | 0-131 | 88 | 88 |
| 97.45 | 31°45.5' | 118°10.0' | V-23 | 2146 | 2200 | 497 | 0-131 | 62 | 50 |
| 97.50 | 31°35.5' | 118°31.0' | V-23 | 1856 | 1910 | 476 | 0-129 | 511 | 46 |
| 97.55 | 31°25.5' | 118°51.0' | V-23 | 1616 | 1630 | 493 | 0-127 | 81 | 81 |
| 97.60 | 31°13.0' | 119°09.0' | V-23 | 1256 | 1311 | 539 | 0-109 | 109 | 109 |
| 97.70 | 30°54.0' | 119°49.0' | V-23 | 0806 | 0820 | 426 | 0-138 | 120 | 120 |
| 97.80 | 30°34.0' | 120°31.0' | V-23 | 0256 | 0311 | 457 | 0-132 | 66 | 66 |
| 97.90 | 30°15.0' | 121°11.0' | V-22 | 2156 | 2210 | 462 | 0-128 | 87 | 87 |
| 100.29 | 31°42.7' | 116°43.7' | V-21 | 0058 | 0106 | 303 | 0-88 | 330 | 330 |
| 100.30 | 31°39.5' | 116°47.1' | V-20 | 2356 | 0010 | 479 | 0-140 | 73 | 73 |
| 100.35 | 31°29.3' | 117°06.3' | V-20 | 2141 | 2156 | 495 | 0-128 | 113 | 113 |
| 100.40 | 31°20.2' | 117°25.4' | V-20 | 1921 | 1936 | 469 | 0-142 | 100 | 100 |
| 100.45 | 31°11.8' | 117°45.8' | V-20 | 1701 | 1716 | 431 | 0-148 | 79 | 79 |
| 100.50 | 31°01.4' | 118°07.9' | V-20 | 1411 | 1426 | 451 | 0-143 | 82 | 82 |
| 100.55 | 30°48.8' | 118°20.2' | V-20 | 1156 | 1210 | 414 | 0-155 | 94 | 94 |
| 100.60 | 30°38.9' | 118°41.8' | V-20 | 0941 | 0955 | 496 | 0-131 | 93 | 93 |
| 100.70 | 30°19.6' | 119°27.8' | V-20 | 0451 | 0506 | 429 | 0-149 | 89 | 89 |
| 100.80 | 30°00.5' | 120°03.8' | V-20 | 0026 | 0040 | 444 | 0-145 | 86 | 86 |
| 100.90 | 29°41.3' | 120°44.3' | V-19 | 1931 | 1946 | 449 | 0-151 | 36 | 36 |
| 100.100 | 29°21.8' | 120°25.0' | V-19 | 1531 | 1546 | 437 | 0-147 | 27 | 27 |
| 103.30 | 31°05.2' | 116°25.0' | V-18 | 0543 | 0550 | 270 | 0-34 | 278 | 278 |
| 103.35 | 30°56.2' | 116°43.4' | V-18 | 0756 | 0810 | 496 | 0-123 | 61 | 61 |
| 103.40 | 30°46.6' | 117°02.3' | V-18 | 1026 | 1040 | 467 | 0-140 | 51 | 51 |
| 103.45 | 30°34.3' | 117°25.9' | V-18 | 1331 | 1346 | 504 | 0-130 | 46 | 46 |

Plankton Volumes, Cruise 5405, May 1954 (cont'd)

| Sta. | Position | | (1954) Date | Time (PST) | | Vol. water strained C.M. | Depth of haul in meters | Vol. per 1000 C.M. strained | |
|--------|----------|-----------|----------------|------------|------|-----------------------------------|-------------------------------|--------------------------------|-----------------|
| | N. lat. | W. long. | | Start | End | | | Total cc. | Sm. org. cc. |
| 103.50 | 30°24.1' | 117°47.0' | V-18 | 1556 | 1610 | 515 | 0-121 | 50 | 50 |
| 103.55 | 30°16.2' | 118°05.8' | V-18 | 1801 | 1816 | 474 | 0-138 | 42 | 42 |
| 103.60 | 30°04.9' | 118°26.3' | V-18 | 2016 | 2030 | 484 | 0-133 | 48 | 48 |
| 103.70 | 29°44.5' | 119°07.7' | V-19 | 0051 | 0105 | 478 | 0-128 | 77 | 77 |
| 103.80 | 29°24.1' | 119°47.8' | V-19 | 0506 | 0520 | 445 | 0-152 | 22 | 22 |
| 103.90 | 29°02.2' | 120°26.7' | V-19 | 1001 | 1016 | 464 | 0-147 | 26 | 26 |
| 107.32 | 30°28.3' | 116°14.8' | V-18 | 0141 | 0156 | 461 | 0-136 | 284 | 284 |
| 107.35 | 30°19.2' | 116°33.8' | V-17 | 2236 | 2250 | 474 | 0-130 | 114 | 114 |
| 107.40 | 30°11.2' | 116°49.3' | V-17 | 2006 | 2020 | 485 | 0-126 | 68 | 68 |
| 107.45 | 30°01.8' | 117°07.7' | V-17 | 1746 | 1800 | 457 | 0-134 | 77 | 77 |
| 107.50 | 29°58.3' | 117°28.7' | V-17 | 1446 | 1500 | 439 | 0-146 | 46 | 46 |
| 107.55 | 29°49.1' | 117°48.1' | V-17 | 1231 | 1246 | 478 | 0-137 | 27 | 27 |
| 107.60 | 29°37.2' | 118°07.2' | V-17 | 1011 | 1026 | 442 | 0-148 | 61 | 38 |
| 107.70 | 29°15.0' | 118°45.2' | V-17 | 0526 | 0541 | 433 | 0-151 | 23 | 23 |
| 107.80 | 28°52.3' | 119°22.8' | V-17 | 0101 | 0115 | 406 | 0-165 | 37 | 37 |
| 110.33 | 29°50.3' | 115°52.7' | V-15 | 1458 | 1506 | 288 | 0-93 | 160 | 160 |
| 110.35 | 29°46.0' | 115°59.8' | V-15 | 1606 | 1620 | 458 | 0-141 | 44 | 44 |
| 110.40 | 29°36.5' | 116°19.8' | V-15 | 1816 | 1830 | 468 | 0-140 | 102 | 60 |
| 110.45 | 29°27.8' | 116°38.9' | V-15 | 2116 | 2131 | 421 | 0-147 | 69 | 69 |
| 110.50 | 29°18.4' | 116°57.9' | V-15 | 2331 | 2346 | 486 | 0-139 | 54 | 54 |
| 110.55 | 29°08.7' | 117°17.2' | V-16 | 0151 | 0206 | 434 | 0-146 | 55 | 55 |
| 110.60 | 28°59.3' | 117°35.7' | V-16 | 0416 | 0430 | 417 | 0-146 | 65 | 65 |
| 110.70 | 28°35.5' | 118°18.8' | V-16 | 0956 | 1010 | 460 | 0-140 | 46 | 46 |
| 110.80 | 28°17.0' | 118°58.0' | V-16 | 1356 | 1410 | 426 | 0-151 | 38 | 38 |
| 110.90 | 27°56.5' | 119°36.0' | V-16 | 1856 | 1910 | 477 | 0-133 | 67 | 67 |
| 113.30 | 29°26.2' | 115°18.7' | V-15 | 1033 | 1040 | 291 | 0-39 | 319 | 319 |
| 113.32 | 29°21.2' | 115°30.7' | V-15 | 0902 | 0913 | 383 | 0-92 | 413 | 413 |
| 113.35 | 29°18.0' | 115°38.8' | V-15 | 0706 | 0720 | 538 | 0-110 | 195 | 195 |
| 113.37 | 29°12.4' | 115°48.8' | V-15 | 0536 | 0550 | 479 | 0-130 | 36 | 36 |
| 113.40 | 29°06.5' | 115°58.8' | V-15 | 0411 | 0426 | 448 | 0-142 | 25 | 25 |
| 113.42 | 29°00.8' | 116°08.8' | V-15 | 0246 | 0300 | 475 | 0-132 | 78 | 78 |
| 113.45 | 28°55.0' | 116°19.0' | V-15 | 0121 | 0136 | 465 | 0-137 | 34 | 34 |
| 113.47 | 28°49.9' | 116°28.8' | V-14 | 2351 | 0006 | 454 | 0-146 | 59 | 59 |
| 113.50 | 28°43.9' | 116°38.3' | V-14 | 2156 | 2210 | 479 | 0-136 | 69 | 69 |
| 113.55 | 28°33.3' | 116°57.0' | V-14 | 1921 | 1935 | 485 | 0-136 | 45 | 45 |
| 113.60 | 28°23.0' | 117°17.7' | V-14 | 1701 | 1716 | 461 | 0-136 | 61 | 61 |
| 113.70 | 28°02.0' | 117°55.5' | V-14 | 1216 | 1230 | 449 | 0-135 | 38 | 38 |
| 117.26 | 28°51.3' | 114°45.8' | V-13 | 0158 | 0206 | 253 | 0-66 | 653 | 653 |
| 117.28 | 28°44.8' | 114°56.8' | V-13 | 0312 | 0322 | 344 | 0-80 | 349 | 349 |
| 117.30 | 28°41.3' | 115°02.2' | V-13 | 0417 | 0428 | 381 | 0-89 | 213 | 213 |
| 117.32 | 28°37.9' | 115°08.1' | V-13 | 0526 | 0540 | 477 | 0-132 | 143 | 143 |
| 117.35 | 28°36.9' | 115°17.2' | V-13 | 0636 | 0650 | 467 | 0-127 | 137 | 137 |
| 117.37 | 28°33.0' | 115°25.6' | V-13 | 0751 | 0806 | 434 | 0-136 | 42 | 42 |
| 117.40 | 28°27.2' | 115°35.8' | V-13 | 1636 | 1650 | 518 | 0-109 | 50 | 50 |
| 117.42 | 28°23.2' | 115°45.7' | V-13 | 1816 | 1831 | 380 | 0-146 | 50 | 50 |

Plankton Volumes, Cruise 5405, May 1954 (cont'd)

| Sta. | Position | | (1954) Date | Time (PST) | | Vol. water strained C.M. | Depth of haul in meters | Vol. per 1000 C.M. strained Total Sm. crg. | |
|--------|----------|-----------|----------------|------------|------|-----------------------------------|-------------------------------|--|-----|
| | N. lat. | W. long. | | Start | End | | | cc. | cc. |
| 117.45 | 28°18.2' | 115°55.3' | V-13 | 1941 | 1955 | 479 | 0-134 | 52 | 52 |
| 117.47 | 28°13.6' | 116°05.4' | V-13 | 2101 | 2115 | 531 | 0-127 | 79 | 79 |
| 117.50 | 28°08.0' | 116°15.2' | V-13 | 2226 | 2241 | 504 | 0-126 | 61 | 61 |
| 117.55 | 27°57.8' | 116°34.0' | V-14 | 0041 | 0056 | 534 | 0-112 | 54 | 54 |
| 117.60 | 27°46.6' | 116°53.0' | V-14 | 0256 | 0310 | 504 | 0-122 | 97 | 97 |
| 117.70 | 27°25.3' | 117°29.0' | V-14 | 0726 | 0740 | 541 | 0-113 | 41 | 41 |
| 120.25 | 28°23.8' | 114°18.2' | V-12 | 2127 | 2135 | 251 | 0-52 | 235 | 235 |
| 120.27 | 28°18.3' | 114°27.6' | V-12 | 2013 | 2020 | 248 | 0-71 | 415 | 415 |
| 120.30 | 28°12.8' | 114°36.7' | V-12 | 1858 | 1906 | 283 | 0-63 | 651 | 651 |
| 120.32 | 28°07.5' | 114°45.3' | V-12 | 1753 | 1760 | 263 | 0-68 | 221 | 221 |
| 120.35 | 28°02.9' | 114°54.0' | V-12 | 1608 | 1614 | 233 | 0-57 | 343 | 343 |
| 120.37 | 27°59.6' | 115°01.2' | V-12 | 1453 | 1500 | 266 | 0-52 | 345 | 345 |
| 120.40 | 27°55.7' | 115°15.0' | V-12 | 1334 | 1338 | 152 | 0-29 | 185 | 185 |
| 120.42 | 27°54.9' | 115°31.2' | V-12 | 1136 | 1151 | 408 | 0-134 | 113 | 113 |
| 120.45 | 27°41.0' | 115°45.2' | V-12 | 0936 | 0950 | 448 | 0-133 | 89 | 89 |
| 120.47 | 27°36.4' | 115°53.0' | V-12 | 0801 | 0815 | 427 | 0-139 | 136 | 136 |
| 120.50 | 27°31.8' | 116°01.2' | V-12 | 0551 | 0606 | 538 | 0-105 | 236 | 236 |
| 120.55 | 27°22.2' | 116°17.5' | V-12 | 0326 | 0340 | 466 | 0-138 | 84 | 84 |
| 120.60 | 27°12.6' | 116°34.2' | V-12 | 0106 | 0120 | 495 | 0-136 | 53 | 53 |
| 120.70 | 26°51.9' | 117°10.8' | V-11 | 2011 | 2025 | 451 | 0-143 | 47 | 47 |
| 120.80 | 26°30.5' | 117°47.0' | V-11 | 1546 | 1600 | 427 | 0-151 | 80 | 80 |
| 120.90 | 26°24.8' | 118°18.0' | V-11 | 1156 | 1210 | 425 | 0-149 | 54 | 54 |
| 123.37 | 27°24.4' | 114°40.3' | V-10 | 0223 | 0230 | 192 | 0-67 | 229 | 229 |
| 123.40 | 27°19.3' | 114°51.8' | V-10 | 0356 | 0411 | 431 | 0-147 | 144 | 144 |
| 123.42 | 27°13.4' | 115°01.3' | V-10 | 1516 | 1530 | 482 | 0-153 | 214 | 214 |
| 123.45 | 27°08.3' | 115°11.8' | V-10 | 1636 | 1651 | 491 | 0-130 | 94 | 94 |
| 123.47 | 27°03.4' | 115°22.6' | V-10 | 1801 | 1816 | 452 | 0-148 | 159 | 159 |
| 123.50 | 26°58.0' | 115°33.5' | V-10 | 1926 | 1940 | 468 | 0-147 | 216 | 216 |
| 123.55 | 26°49.0' | 115°54.1' | V-10 | 2141 | 2155 | 453 | 0-147 | 203 | 203 |
| 123.60 | 26°39.0' | 116°15.0' | V-11 | 0006 | 0020 | 481 | 0-138 | 158 | 158 |
| 127.34 | 26°56.2' | 114°05.2' | V-9 | 2138 | 2145 | 212 | 0-63 | 425 | 425 |
| 127.37 | 26°44.8' | 114°19.0' | V-9 | 1936 | 1950 | 484 | 0-139 | 155 | 155 |
| 127.40 | 26°39.2' | 114°29.7' | V-9 | 1746 | 1800 | 484 | 0-142 | 130 | 130 |
| 127.42 | 26°35.7' | 114°37.7' | V-9 | 1631 | 1646 | 482 | 0-146 | 102 | 102 |
| 127.45 | 26°31.2' | 114°48.2' | V-9 | 1511 | 1526 | 464 | 0-145 | 60 | 60 |
| 127.47 | 26°27.3' | 114°58.8' | V-9 | 1336 | 1350 | 482 | 0-139 | 25 | 25 |
| 127.50 | 26°20.5' | 115°11.9' | V-9 | 1106 | 1121 | 450 | 0-143 | 27 | 27 |
| 127.55 | 26°12.5' | 115°26.1' | V-9 | 0856 | 0910 | 489 | 0-136 | 57 | 57 |
| 127.60 | 26°02.7' | 115°45.2' | V-9 | 0636 | 0650 | 457 | 0-151 | 35 | 35 |
| 130.30 | 26°27.0' | 113°27.8' | V-8 | 1018 | 1025 | 288 | 0-51 | 108 | 108 |
| 130.35 | 26°19.9' | 113°48.7' | V-8 | 1256 | 1310 | 421 | 0-138 | 47 | 31 |
| 130.40 | 26°08.7' | 114°08.6' | V-8 | 1516 | 1530 | 489 | 0-130 | 33 | 33 |
| 130.45 | 25°58.6' | 114°27.6' | V-8 | 1821 | 1836 | 455 | 0-141 | 44 | 44 |
| 130.50 | 25°49.0' | 114°46.0' | V-8 | 2036 | 2050 | 457 | 0-137 | 39 | 39 |
| 130.55 | 25°39.0' | 115°05.0' | V-8 | 2256 | 2311 | 476 | 0-142 | 61 | 61 |

Plankton Volumes, Cruise 5405, May 1954 (cont'd)

| Sta. | Position | | (1954) Date | Time (PST) | | Vol. water strained C.M. | Depth of haul in meters | Vol.per 1000 C.M.strained Total Sm.org. | |
|--------|----------|-----------|----------------|------------|------|-----------------------------------|-------------------------------|---|-----|
| | N.lat. | W.long. | | Start | End | | | cc. | cc. |
| 130.60 | 25°28.0' | 115°23.3' | V-9 | 0116 | 0130 | 442 | 0-151 | 54 | 54 |
| 133.25 | 26°04.0' | 112°48.3' | V-8 | 0558 | 0606 | 296 | 0-69 | 115 | 115 |
| 133.30 | 25°54.3' | 113°07.9' | V-7 | 2246 | 2300 | 471 | 0-142 | 372 | 372 |
| 133.35 | 25°48.7' | 113°29.2' | V-7 | 2021 | 2036 | 459 | 0-142 | 105 | 105 |
| 133.40 | 25°40.5' | 113°43.9' | V-7 | 1826 | 1840 | 463 | 0-140 | 69 | 69 |
| 133.45 | 25°25.2' | 114°12.5' | V-7 | 1516 | 1530 | 446 | 0-145 | 27 | 27 |
| 133.50 | 25°17.0' | 114°25.8' | V-7 | 1211 | 1225 | 502 | 0-118 | 36 | 36 |
| 133.60 | 24°55.4' | 114°59.2' | V-7 | 0756 | 0810 | 441 | 0-144 | 54 | 54 |
| 137.23 | 25°36.7' | 112°19.2' | V-6 | 1008 | 1015 | 244 | 0-59 | 262 | 262 |
| 137.30 | 25°21.2' | 112°47.6' | V-6 | 1311 | 1326 | 429 | 0-139 | 238 | 238 |
| 137.35 | 25°10.6' | 113°06.7' | V-6 | 1531 | 1546 | 442 | 0-139 | 120 | 120 |
| 137.40 | 24°55.2' | 113°24.9' | V-6 | 1801 | 1816 | 500 | 0-137 | 234 | 234 |
| 137.45 | 24°46.7' | 113°40.8' | V-6 | 2026 | 2040 | 451 | 0-144 | 71 | 71 |
| 137.50 | 24°37.9' | 114°00.8' | V-6 | 2241 | 2256 | 437 | 0-144 | 98 | 78 |
| 137.60 | 24°16.0' | 114°35.0' | V-7 | 0246 | 0300 | 509 | 0-124 | 63 | 63 |

Plankton Volumes, Cruise 5406, June 1954

| | | | | | | | | | |
|--------|----------|-----------|-------|------|------|-----|-------|------|------|
| 50.47 | 39°46.0' | 123°54.2' | VI-5 | 0818 | 0827 | 404 | 0-63 | 272 | 217 |
| 50.50 | 29°38.3' | 124°11.3' | VI-5 | 1103 | 1118 | 501 | 0-122 | 432 | 432 |
| 50.60 | 39°20.0' | 124°52.0' | VI-5 | 1506 | 1520 | 477 | 0-138 | 92 | 76 |
| 50.70 | 39°00.4' | 125°34.0' | VI-5 | 2016 | 2031 | 475 | 0-134 | 116 | 116 |
| 50.80 | 38°40.8' | 126°21.0' | VI-6 | 0036 | 0050 | 432 | 0-147 | 640 | 640 |
| 50.90 | 38°22.0' | 127°07.0' | VI-6 | 0546 | 0601 | 461 | 0-142 | 263 | 263 |
| 50.100 | 38°00.0' | 127°49.0' | VI-6 | 0926 | 0940 | 514 | 0-126 | 146 | 146 |
| 53.52 | 39°02.5' | 123°51.8' | VI-5 | 0353 | 0401 | 264 | 0-83 | 181 | 181 |
| 53.55 | 38°55.7' | 124°04.3' | VI-5 | 0151 | 0205 | 451 | 0-140 | 1332 | 1332 |
| 53.65 | 38°36.0' | 124°51.1' | VI-4 | 2111 | 2126 | 498 | 0-127 | 221 | 221 |
| 57.51 | 38°30.0' | 123°22.0' | VI-4 | 0857 | 0907 | 400 | 0-75 | 132 | 132 |
| 57.55 | 38°24.0' | 123°41.2' | VI-4 | 1126 | 1141 | 484 | 0-135 | 338 | 338 |
| 57.65 | 38°02.0' | 124°23.5' | VI-4 | 1536 | 1551 | 481 | 0-144 | 168 | 168 |
| 60.55 | 37°47.3' | 123°14.5' | VI-7 | 1842 | 1853 | 350 | 0-105 | 188 | 188 |
| 60.60 | 37°37.0' | 123°37.0' | VI-7 | 1621 | 1636 | 501 | 0-119 | 653 | 653 |
| 60.70 | 37°16.8' | 124°18.8' | VI-7 | 1056 | 1111 | 429 | 0-147 | 368 | 326 |
| 60.80 | 36°55.3' | 125°08.7' | VI-7 | 0618 | 0632 | 510 | 0-131 | 517 | 517 |
| 60.90 | 36°36.3' | 125°49.0' | VI-7 | 0121 | 0136 | 486 | 0-144 | 255 | 255 |
| 60.100 | 36°20.2' | 126°31.8' | VI-6 | 2016 | 2031 | 476 | 0-146 | 136 | 101 |
| 63.52 | 37°18.5' | 122°36.7' | VI-9 | 1128 | 1137 | 336 | 0-64 | 555 | 110 |
| 63.55 | 37°14.0' | 122°49.5' | VI-9 | 1311 | 1325 | 530 | 0-122 | 454 | 454 |
| 63.65 | 36°53.3' | 123°33.0' | VI-9 | 1716 | 1731 | 414 | 0-151 | 293 | 293 |
| 67.50 | 36°49.6' | 122°04.8' | VI-10 | 0500 | 0511 | 370 | 0-86 | 173 | 173 |
| 67.55 | 36°40.5' | 122°26.7' | VI-10 | 0221 | 0236 | 460 | 0-138 | 469 | 469 |
| 67.65 | 36°20.3' | 123°06.7' | VI-9 | 2221 | 2235 | 417 | 0-131 | 1190 | 1190 |
| 70.52 | 36°08.5' | 121°50.0' | VI-11 | 1439 | 1454 | 507 | 0-142 | 538 | 538 |
| 70.55 | 36°03.6' | 122°01.7' | VI-11 | 1621 | 1636 | 490 | 0-139 | 481 | 481 |

Plankton Volumes, Cruise 5406, June 1954 (cont'd)

| Sta. | Position | | (1954) Date | Time (PST) | | Vol. water strained C.M. | Depth of haul in meters | Vol. per 1000 C.M. strained Total Sm.org. | |
|--------|-----------------------------------|-----------|----------------|------------|------|-----------------------------------|-------------------------------|---|------|
| | N.lat. | W.long. | | Start | End | | | cc. | cc. |
| 70.60 | 35°54.3' | 122°22.7' | VI-11 | 1936 | 1950 | 513 | 0-124 | 197 | 197 |
| 70.70 | 35°33.0' | 123°06.0' | VI-11 | 2346 | 0000 | 422 | 0-131 | 251 | 232 |
| 70.80 | 35°13.0' | 123°48.0' | VI-12 | 0506 | 0520 | 446 | 0-141 | 60 | 60 |
| 70.90 | 34°52.5' | 124°26.3' | VI-12 | 0906 | 0921 | 443 | 0-149 | 63 | 63 |
| 70.100 | 34°31.7' | 125°10.2' | VI-12 | 1401 | 1416 | 521 | 0-126 | 31 | 31 |
| 73.50 | 35°37.0' | 121°16.4' | VI-10 | 1248 | 1256 | 266 | 0-86 | 364 | 364 |
| 73.60 | 35°17.7' | 121°57.9' | VI-11 | 0806 | 0821 | 468 | 0-139 | 137 | 137 |
| 77.50 | 35°04.9' | 120°52.2' | VI-10 | 1647 | 1659 | 464 | 0-101 | 419 | 366 |
| 77.55 | 34°54.5' | 121°13.0' | VI-10 | 1949 | 2004 | 496 | 0-118 | 133 | 133 |
| 77.65 | Occupied. Sample not quantitative | | | | | | | | |
| 80.51 | 34°26.5' | 120°32.5' | VI-14 | 0118 | 0126 | 315 | 0-70 | 130 | 130 |
| 80.55 | 34°20.2' | 120°48.3' | VI-13 | 2228 | 2243 | 481 | 0-135 | 691 | 691 |
| 80.60 | 34°16.5' | 121°11.0' | VI-13 | 1956 | 2011 | 475 | 0-135 | 563 | 563 |
| 80.70 | Occupied. Sample not quantitative | | | | | | | | |
| 80.80 | 33°27.8' | 122°31.8' | VI-13 | 1041 | 1056 | 472 | 0-143 | 76 | 76 |
| 80.90 | 33°14.0' | 123°16.0' | VI-13 | 0636 | 0651 | 497 | 0-149 | 84 | 84 |
| 80.100 | 32°49.0' | 123°54.0' | VI-13 | 0106 | 0120 | 508 | 0-140 | 91 | 91 |
| 82.47 | 34°15.2' | 119°59.2' | VI-14 | 0531 | 0546 | 539 | 0-127 | 1214 | 1214 |
| 83.40 | 34°14.2' | 119°23.7' | VI-14 | 0945 | 0946 | 65 | 0-13 | 200 | 200 |
| 83.43 | 34°08.4' | 119°33.9' | VI-14 | 0820 | 0835 | 464 | 0-131 | 2683 | 2661 |
| 83.48 | 33°58.3' | 119°55.0' | VI-15 | 0711 | 0725 | 511 | 0-104 | 184 | 122 |
| 83.51 | 33°52.0' | 120°08.3' | VI-15 | 0921 | 0932 | 446 | 0-68 | 112 | 112 |
| 83.55 | 33°43.7' | 120°25.7' | VI-15 | 1101 | 1116 | 409 | 0-140 | 2538 | 2538 |
| 83.60 | 33°34.0' | 120°45.0' | VI-15 | 1416 | 1430 | 432 | 0-148 | 878 | 878 |
| 83.70 | 33°14.2' | 121°27.2' | VI-15 | 1811 | 1826 | 505 | 0-133 | 539 | 539 |
| 83.80 | 32°55.7' | 122°07.9' | VI-15 | 2320 | 2334 | 495 | 0-128 | 283 | 220 |
| 83.90 | 32°38.3' | 122°51.1' | VI-16 | 0311 | 0326 | 502 | 0-130 | 179 | 179 |
| 85.39 | 33°59.8' | 119°04.3' | VI-14 | 1251 | 1306 | 472 | 0-118 | 117 | 117 |
| 85.45 | 33°47.0' | 119°31.2' | VI-14 | 1801 | 1816 | 557 | 0-109 | 104 | 104 |
| 85.50 | 33°36.8' | 119°51.7' | VI-14 | 2011 | 2026 | 401 | 0-150 | 456 | 456 |
| 85.55 | 33°25.7' | 120°13.3' | VI-14 | 2316 | 2331 | 435 | 0-147 | 676 | 662 |
| 85.60 | 33°13.7' | 120°31.8' | VI-15 | 0121 | 0135 | 436 | 0-135 | 824 | 824 |
| 87.35 | 33°50.8' | 118°38.4' | VI-17 | 1136 | 1150 | 452 | 0-139 | 161 | 161 |
| 87.40 | 33°40.4' | 118°58.8' | VI-17 | 0933 | 0948 | 441 | 0-135 | 247 | 116 |
| 87.45 | 33°29.8' | 119°18.5' | VI-17 | 0636 | 0651 | 524 | 0-126 | 772 | 772 |
| 87.50 | 33°20.6' | 119°40.3' | VI-17 | 0413 | 0421 | 256 | 0-57 | 4442 | 4442 |
| 87.55 | 33°08.0' | 119°59.7' | VI-17 | 0116 | 0131 | 510 | 0-134 | 635 | 635 |
| 87.60 | 33°00.0' | 120°21.5' | VI-16 | 2251 | 2306 | 526 | 0-126 | 441 | 441 |
| 87.70 | Not occupied | | | | | | | | |
| 87.80 | 32°14.5' | 121°42.8' | VI-16 | 1256 | 1310 | 534 | 0-126 | 181 | 181 |
| 87.90 | 32°02.9' | 122°27.8' | VI-16 | 0746 | 0801 | 567 | 0-131 | 40 | 40 |
| 90.28 | 33°28.2' | 117°47.4' | VI-17 | 2226 | 2240 | 415 | 0-131 | 258 | 258 |
| 90.30 | 33°23.8' | 117°55.7' | VI-17 | 2326 | 2341 | 494 | 0-125 | 291 | 265 |
| 90.33 | 33°17.4' | 118°10.0' | VI-18 | 0121 | 0136 | 581 | 0-119 | 127 | 79 |
| 90.37 | 33°11.0' | 118°23.5' | VI-18 | 0351 | 0406 | 554 | 0-110 | 76 | 76 |

Plankton Volumes, Cruise 5406, June 1954 (cont'd)

| Sta. | Position | | Time (PST) (1954) Date | Start | End | Vol. water strained C.M. | Depth of haul in meters | Vol. per 1000 C.M. strained | |
|--------|----------|-----------|-----------------------------------|-------|------|-----------------------------------|-------------------------------|--------------------------------|-----------------|
| | N. lat. | W. long. | | | | | | Total | Sm. org. cc. |
| 90.41 | 33°02.7' | 118°39.8' | VI-18 | 0556 | 0611 | 522 | 0-123 | 140 | 111 |
| 90.45 | 32°54.5' | 118°56.0' | VI-18 | 0756 | 0811 | 531 | 0-126 | 115 | 115 |
| 90.50 | 32°44.3' | 119°17.5' | VI-18 | 1026 | 1040 | 546 | 0-134 | 401 | 392 |
| 90.55 | 32°34.8' | 119°36.9' | VI-18 | 1326 | 1340 | 408 | 0-136 | 201 | 201 |
| 90.60 | 32°25.0' | 119°57.5' | VI-18 | 1536 | 1550 | 385 | 0-132 | 218 | 218 |
| 90.70 | 32°04.7' | 120°36.5' | VI-18 | 2039 | 2054 | 416 | 0-130 | 360 | 360 |
| 90.80 | 31°45.0' | 121°19.0' | VI-19 | 0056 | 0111 | 397 | 0-134 | 202 | 202 |
| 93.27 | 32°55.4' | 117°18.7' | VI-20 | 1701 | 1716 | 409 | 0-130 | 1455 | 402 |
| 93.30 | 32°53.0' | 117°32.1' | VI-20 | 1536 | 1551 | 425 | 0-108 | 289 | 230 |
| 93.35 | 32°48.2' | 117°53.0' | VI-20 | 1301 | 1316 | 438 | 0-130 | 82 | 82 |
| 93.40 | | | Occupied. Sample not quantitative | | | | | | |
| 93.45 | 32°38.2' | 118°37.2' | VI-20 | 0836 | 0850 | 456 | 0-113 | 107 | 107 |
| 93.50 | 32°33.3' | 118°58.6' | VI-20 | 0641 | 0656 | 438 | 0-134 | 192 | 192 |
| 93.55 | 32°26.2' | 119°21.6' | VI-20 | 0336 | 0350 | 396 | 0-128 | 1660 | 1660 |
| 93.60 | 32°09.5' | 119°40.5' | VI-20 | 0111 | 0125 | 391 | 0-130 | 407 | 407 |
| 93.70 | 31°39.0' | 120°13.0' | VI-19 | 2016 | 2030 | 441 | 0-116 | 186 | 186 |
| 93.80 | | | Not occupied | | | | | | |
| 93.90 | | | Occupied. Sample not quantitative | | | | | | |
| 97.30 | 32°15.5' | 117°09.0' | VI-22 | 1723 | 1729 | 178 | 0-48 | 168 | 168 |
| 97.32 | 32°11.5' | 117°17.0' | VI-22 | 1546 | 1600 | 514 | 0-132 | 78 | 78 |
| 97.36 | 32°03.0' | 117°33.5' | VI-22 | 1341 | 1356 | 427 | 0-141 | 333 | 333 |
| 97.40 | 31°51.0' | 117°49.5' | VI-22 | 1031 | 1046 | 487 | 0-138 | 57 | 57 |
| 97.45 | 31°43.0' | 118°09.5' | VI-22 | 0846 | 0900 | 509 | 0-139 | 96 | 96 |
| 97.50 | 31°35.0' | 118°30.0' | VI-22 | 0556 | 0610 | 476 | 0-138 | 67 | 67 |
| 97.55 | 31°26.0' | 118°47.0' | VI-22 | 0346 | 0400 | 498 | 0-135 | 92 | 92 |
| 97.60 | 31°15.5' | 119°09.0' | VI-22 | 0046 | 0100 | 511 | 0-132 | 92 | 92 |
| 97.70 | 30°55.0' | 119°50.0' | VI-21 | 2001 | 2016 | 504 | 0-135 | 206 | 197 |
| 97.80 | 30°35.5' | 120°31.0' | VI-21 | 1456 | 1510 | 493 | 0-134 | 162 | 162 |
| 97.90 | 30°15.0' | 121°12.5' | VI-21 | 1026 | 1041 | 538 | 0-139 | 89 | 89 |
| 100.29 | 31°42.0' | 116°43.5' | VI-19 | 1958 | 2007 | 306 | 0-84 | 271 | 271 |
| 100.30 | 31°40.5' | 116°46.5' | VI-19 | 2046 | 2100 | 523 | 0-140 | 124 | 124 |
| 100.35 | 31°31.0' | 117°07.0' | VI-19 | 2306 | 2320 | 484 | 0-139 | 81 | 81 |
| 100.40 | 31°21.0' | 117°27.5' | VI-20 | 0136 | 0151 | 467 | 0-144 | 94 | 94 |
| 100.45 | 31°13.0' | 117°47.0' | VI-20 | 0356 | 0411 | 482 | 0-146 | 152 | 152 |
| 100.50 | 31°04.5' | 118°07.0' | VI-20 | 0626 | 0640 | 484 | 0-137 | 41 | 41 |
| 100.55 | 30°56.5' | 118°23.5' | VI-20 | 1006 | 1020 | 498 | 0-138 | 72 | 72 |
| 100.60 | 30°45.5' | 118°44.0' | VI-20 | 1241 | 1256 | 515 | 0-127 | 58 | 58 |
| 100.70 | 30°21.0' | 119°27.0' | VI-20 | 1751 | 1805 | 477 | 0-140 | 113 | 113 |
| 100.80 | 30°01.0' | 120°07.0' | VI-20 | 2301 | 2316 | 471 | 0-143 | 170 | 170 |
| 100.90 | 29°40.5' | 120°47.0' | VI-21 | 0321 | 0336 | 568 | 0-133 | 74 | 60 |
| 103.30 | 31°05.5' | 116°25.0' | VI-19 | 1448 | 1454 | 212 | 0-57 | 203 | 203 |
| 103.35 | 30°55.5' | 116°46.0' | VI-19 | 1221 | 1236 | 471 | 0-137 | 62 | 62 |
| 103.40 | 30°45.5' | 117°05.5' | VI-19 | 0921 | 0936 | 489 | 0-141 | 53 | 53 |
| 103.45 | 30°36.5' | 117°24.5' | VI-19 | 0701 | 0716 | 472 | 0-139 | 76 | 76 |
| 103.50 | 30°23.0' | 117°44.0' | VI-19 | 0426 | 0441 | 462 | 0-145 | 87 | 87 |

Plankton Volumes, Cruise 5406, June 1954 (cont'd)

| Sta. | Position | | (1954) Date | Time (PST) | | Vol. water strained C.M. | Depth of haul in meters | Vol. per 1000 C.M. strained | |
|--------|----------|-----------|----------------|------------|------|-----------------------------------|-------------------------------|--------------------------------|---------|
| | N.lat. | W.long. | | Start | End | | | Total | Sm.org. |
| 103.55 | 30°14.0' | 118°04.5' | VI-19 | 0156 | 0210 | 478 | 0-144 | 103 | 103 |
| 103.60 | 30°04.5' | 118°24.0' | VI-18 | 2251 | 2306 | 511 | 0-136 | 51 | 51 |
| 103.70 | 29°43.5' | 119°03.5' | VI-18 | 1801 | 1816 | 476 | 0-138 | 46 | 46 |
| 103.80 | 29°25.5' | 119°46.0' | VI-18 | 1246 | 1301 | 492 | 0-137 | 37 | 37 |
| 107.32 | 30°26.0' | 116°11.0' | VI-17 | 0946 | 1001 | 490 | 0-142 | 41 | 41 |
| 107.35 | 30°21.5' | 116°23.0' | VI-17 | 1126 | 1140 | 442 | 0-144 | 29 | 29 |
| 107.40 | 30°10.0' | 116°43.0' | VI-17 | 1426 | 1440 | 461 | 0-142 | 52 | 52 |
| 107.45 | 30°00.0' | 117°03.0' | VI-17 | 1646 | 1701 | 460 | 0-141 | 70 | 70 |
| 107.50 | 29°49.0' | 117°23.0' | VI-17 | 1921 | 1936 | 472 | 0-136 | 76 | 76 |
| 107.55 | 29°39.0' | 117°42.5' | VI-17 | 2231 | 2246 | 469 | 0-143 | 113 | 113 |
| 107.60 | 29°29.5' | 118°02.5' | VI-18 | 0106 | 0121 | 538 | 0-129 | 113 | 113 |
| 107.70 | 29°11.0' | 118°42.0' | VI-18 | 0451 | 0506 | 447 | 0-143 | 89 | 89 |
| 110.33 | 29°50.5' | 115°52.5' | VI-16 | 1537 | 1546 | 289 | 0-66 | 228 | 228 |
| 110.35 | 29°46.5' | 116°00.0' | VI-16 | 1701 | 1716 | 498 | 0-136 | 60 | 60 |
| 110.40 | 29°36.0' | 116°21.0' | VI-16 | 1921 | 1936 | 468 | 0-140 | 66 | 66 |
| 110.45 | 29°26.5' | 116°39.5' | VI-16 | 2256 | 2311 | 466 | 0-141 | 99 | 99 |
| 110.50 | 29°17.5' | 116°57.0' | VI-17 | 0110 | 0126 | 473 | 0-144 | 76 | 76 |
| 110.55 | 29°06.0' | 117°20.0' | VI-15 | 2330 | 2346 | 551 | 0-140 | 91 | 91 |
| 110.60 | 28°56.5' | 117°40.0' | VI-15 | 2016 | 2031 | 498 | 0-136 | 72 | 72 |
| 110.70 | 28°37.0' | 118°18.0' | VI-15 | 1551 | 1606 | 473 | 0-143 | 51 | 51 |
| 110.80 | 28°14.0' | 118°57.5' | VI-15 | 1021 | 1036 | 489 | 0-138 | 37 | 37 |
| 113.30 | 29°21.5' | 115°19.0' | VI-14 | 0332 | 0340 | 287 | 0-65 | 307 | 307 |
| 113.32 | 29°17.5' | 115°27.0' | VI-14 | 0442 | 0453 | 384 | 0-105 | 299 | 299 |
| 113.35 | 29°11.0' | 115°38.5' | VI-14 | 0606 | 0620 | 486 | 0-138 | 142 | 142 |
| 113.37 | 29°07.0' | 115°48.5' | VI-14 | 0821 | 0836 | 462 | 0-143 | 184 | 184 |
| 113.40 | 29°01.5' | 115°58.5' | VI-14 | 0951 | 1006 | 518 | 0-134 | 60 | 60 |
| 113.42 | 28°56.5' | 116°08.0' | VI-14 | 1126 | 1140 | 490 | 0-138 | 45 | 45 |
| 113.45 | 28°52.0' | 116°17.0' | VI-14 | 1301 | 1316 | 514 | 0-132 | 45 | 45 |
| 113.47 | 28°47.0' | 116°27.0' | VI-14 | 1431 | 1446 | 516 | 0-133 | 58 | 58 |
| 113.50 | 28°42.0' | 116°37.0' | VI-14 | 1601 | 1616 | 518 | 0-139 | 44 | 44 |
| 113.55 | 28°32.0' | 116°56.5' | VI-14 | 2046 | 2100 | 463 | 0-142 | 104 | 104 |
| 113.60 | 28°22.5' | 117°16.0' | VI-14 | 2321 | 2336 | 496 | 0-141 | 99 | 99 |
| 113.70 | 28°02.0' | 117°56.5' | VI-15 | 0341 | 0356 | 493 | 0-139 | 65 | 65 |
| 117.26 | 28°56.0' | 114°41.0' | VI-13 | 2153 | 2200 | 261 | 0-71 | 1164 | 1164 |
| 117.28 | 28°52.0' | 114°48.5' | VI-13 | 2028 | 2036 | 219 | 0-66 | 517 | 517 |
| 117.30 | 28°48.0' | 114°56.5' | VI-13 | 1858 | 1906 | 329 | 0-81 | 143 | 143 |
| 117.32 | 28°43.0' | 115°06.5' | VI-13 | 1726 | 1740 | 462 | 0-134 | 63 | 63 |
| 117.35 | 28°38.0' | 115°17.0' | VI-13 | 1551 | 1606 | 515 | 0-144 | 51 | 51 |
| 117.37 | 28°31.0' | 115°27.0' | VI-13 | 1406 | 1420 | 522 | 0-143 | 17 | 17 |
| 117.40 | 28°28.0' | 115°36.0' | VI-13 | 0225 | 0241 | 529 | 0-140 | 98 | 98 |
| 117.42 | 28°23.0' | 115°45.5' | VI-13 | 0050 | 0106 | 511 | 0-148 | 67 | 67 |
| 117.45 | 28°18.0' | 115°55.5' | VI-12 | 2316 | 2331 | 473 | 0-141 | 146 | 146 |
| 117.47 | 28°11.0' | 116°04.0' | VI-12 | 2111 | 2126 | 469 | 0-141 | 87 | 87 |
| 117.50 | 28°04.5' | 116°12.5' | VI-12 | 1936 | 1950 | 480 | 0-146 | 113 | 113 |
| 117.55 | 27°55.0' | 116°32.0' | VI-12 | 1701 | 1715 | 444 | 0-141 | 130 | 130 |

Plankton Volumes, Cruise 5406, June 1954 (cont'd)

| Sta. | Position | | (1954) Date | Time (PST) | | Vol. water strained C.M. | Depth of haul in meters | Vol. per 1000 C.M. strained Total Sm.org. | | | |
|--------|----------|-----------|-----------------------------------|------------|------|-----------------------------------|-------------------------------|---|------|--|--|
| | N.lat. | W.long. | | Start | End | | | cc. | cc. | | |
| 117.60 | 27°41.0' | 116°58.5' | VI-12 | 1156 | 1210 | 498 | 0-137 | 22 | 22 | | |
| 117.70 | 27°24.0' | 117°30.5' | VI-12 | 0741 | 0756 | 436 | 0-149 | 92 | 92 | | |
| 120.25 | 28°23.0' | 114°14.5' | VI-9 | 1144 | 1148 | 145 | 0-34 | 34 | 34 | | |
| 120.27 | 28°18.0' | 114°24.0' | VI-9 | 1318 | 1325 | 256 | 0-61 | 211 | 180 | | |
| 120.30 | 28°13.0' | 114°34.0' | VI-9 | 1442 | 1452 | 281 | 0-84 | 299 | 256 | | |
| 120.32 | 28°07.5' | 114°44.5' | VI-9 | 1557 | 1606 | 258 | 0-69 | 132 | 132 | | |
| 120.35 | 28°02.5' | 114°55.0' | VI-9 | 1728 | 1736 | 249 | 0-70 | 261 | 261 | | |
| 120.37 | 27°58.5' | 115°03.0' | VI-9 | 1853 | 1900 | 238 | 0-62 | 404 | 404 | | |
| 120.40 | 27°55.5' | 115°16.0' | VI-10 | 1849 | 1853 | 166 | 0-36 | 24 | 24 | | |
| 120.42 | 27°48.0' | 115°23.0' | VI-10 | 1956 | 2010 | 548 | 0-135 | 140 | 140 | | |
| 120.45 | 27°42.0' | 115°33.0' | VI-10 | 2126 | 2140 | 511 | 0-136 | 57 | 57 | | |
| 120.47 | 27°37.5' | 115°42.0' | VI-10 | 2256 | 2310 | 506 | 0-135 | 38 | 38 | | |
| 120.50 | 27°33.0' | 115°52.0' | VI-11 | 0021 | 0036 | 487 | 0-140 | 98 | 98 | | |
| 120.55 | 27°22.5' | 116°12.0' | VI-11 | 0406 | 0421 | 500 | 0-134 | 112 | 112 | | |
| 120.60 | 27°13.0' | 116°32.0' | VI-11 | 0636 | 0651 | 512 | 0-125 | 123 | 123 | | |
| 120.70 | 26°56.0' | 117°09.0' | VI-11 | 1101 | 1116 | 446 | 0-143 | 38 | 38 | | |
| 120.80 | 26°32.0' | 117°49.0' | VI-11 | 1646 | 1700 | 464 | 0-141 | 73 | 73 | | |
| 120.90 | 26°12.0' | 118°27.0' | VI-11 | 2106 | 2120 | 441 | 0-143 | 20 | 20 | | |
| 123.37 | 27°24.0' | 114°40.0' | VI-9 | 0102 | 0110 | 295 | 0-63 | 329 | 329 | | |
| 123.40 | 27°18.0' | 114°52.0' | VI-8 | 2236 | 2250 | 580 | 0-125 | 66 | 66 | | |
| 123.42 | 27°13.0' | 115°01.5' | VI-8 | 2106 | 2120 | 530 | 0-138 | 126 | 126 | | |
| 123.45 | 27°08.0' | 115°11.0' | VI-8 | 1931 | 1946 | 461 | 0-144 | 72 | 72 | | |
| 123.47 | 27°03.0' | 115°21.0' | VI-8 | 1801 | 1815 | 486 | 0-141 | 35 | 35 | | |
| 123.50 | 26°58.0' | 115°30.5' | VI-8 | 1621 | 1636 | 513 | 0-137 | 39 | 39 | | |
| 123.55 | 26°47.5' | 115°50.0' | VI-8 | 1356 | 1410 | 482 | 0-147 | 100 | 100 | | |
| 123.60 | 26°37.0' | 116°09.5' | VI-8 | 1051 | 1105 | 491 | 0-142 | 61 | 61 | | |
| 127.34 | 26°55.0' | 114°06.0' | VI-7 | 1248 | 1255 | 217 | 0-66 | 161 | 161 | | |
| 127.37 | 26°49.5' | 114°17.0' | VI-7 | 1431 | 1446 | 308 | 0-148 | 139 | 139 | | |
| 127.40 | | | Occupied. Sample not quantitative | | | | | | | | |
| 127.42 | 26°38.5' | 114°38.0' | VI-7 | 1801 | 1816 | 433 | 0-140 | 120 | 120 | | |
| 127.45 | 26°33.0' | 114°48.0' | VI-7 | 1935 | 1951 | 477 | 0-140 | 94 | 57 | | |
| 127.47 | 26°27.5' | 114°58.0' | VI-7 | 2111 | 2125 | 491 | 0-141 | 104 | 104 | | |
| 127.50 | 26°22.0' | 115°07.5' | VI-7 | 2246 | 2300 | 553 | 0-128 | 58 | 58 | | |
| 127.55 | 26°10.5' | 115°27.0' | VI-8 | 0216 | 0230 | 478 | 0-141 | 71 | 71 | | |
| 127.60 | 26°01.0' | 115°47.5' | VI-8 | 0511 | 0526 | 512 | 0-136 | 29 | 29 | | |
| 130.30 | 26°29.0' | 113°29.5' | VI-7 | 0743 | 0750 | 252 | 0-56 | 103 | 103 | | |
| 130.35 | 26°17.0' | 113°48.0' | VI-7 | 0506 | 0521 | 440 | 0-141 | 43 | 43 | | |
| 130.40 | 26°08.0' | 114°09.5' | VI-7 | 0106 | 0120 | 497 | 0-139 | 99 | 87 | | |
| 130.45 | 25°58.5' | 114°27.0' | VI-6 | 2236 | 2250 | 471 | 0-145 | 59 | 59 | | |
| 130.50 | 25°50.0' | 114°46.5' | VI-6 | 2000 | 2015 | 491 | 0-141 | 120 | 120 | | |
| 130.55 | 25°40.0' | 115°07.0' | VI-6 | 1716 | 1731 | 503 | 0-137 | 48 | 36 | | |
| 130.60 | 25°29.0' | 115°27.0' | VI-6 | 1406 | 1420 | 494 | 0-135 | 32 | 32 | | |
| 133.25 | 26°04.0' | 112°50.0' | VI-5 | 1532 | 1540 | 285 | 0-70 | 3027 | 3027 | | |
| 133.30 | 25°54.0' | 113°07.0' | VI-5 | 1741 | 1756 | 498 | 0-136 | 106 | 106 | | |
| 133.35 | 25°44.0' | 113°26.5' | VI-5 | 2031 | 2045 | 440 | 0-140 | 528 | 528 | | |

Plankton Volumes, Cruise 5406, June 1954 (cont'd)

| Sta. | Position | | (1954) Date | Time (PST) | | Vol. water strained C.M. | Depth of haul in meters | Vol. per 1000 C.M. strained Total Sm.org. | |
|--------|----------|-----------|----------------|------------|------|-----------------------------------|-------------------------------|---|-----|
| | N.lat. | W.long. | | Start | End | | | cc. | cc. |
| 133.40 | 25°34.0' | 113°45.0' | VI-5 | 2306 | 2320 | 487 | 0-132 | 134 | 134 |
| 133.45 | 25°23.5' | 114°04.0' | VI-6 | 0141 | 0156 | 488 | 0-139 | 90 | 90 |
| 133.50 | 25°12.5' | 114°22.5' | VI-6 | 0421 | 0436 | 484 | 0-129 | 221 | 155 |
| 137.23 | 25°33.5' | 112°20.5' | VI-5 | 1013 | 1020 | 274 | 0-51 | 361 | 361 |
| 137.30 | 25°20.0' | 112°45.5' | VI-5 | 0641 | 0656 | 485 | 0-120 | 119 | 119 |
| 137.35 | 25°04.5' | 113°03.0' | VI-5 | 0336 | 0350 | 449 | 0-148 | 178 | 147 |
| 137.40 | 24°56.0' | 113°22.5' | VI-5 | 0016 | 0030 | 444 | 0-139 | 97 | 97 |
| 137.45 | 24°47.5' | 113°42.0' | VI-4 | 2121 | 2135 | 489 | 0-143 | 61 | 61 |
| 137.50 | 24°39.0' | 114°01.5' | VI-4 | 1846 | 1900 | 504 | 0-132 | 52 | 52 |

Plankton Volumes, Cruise 5407, July 1954

| | | | | | | | | | |
|--------|----------|-----------|-----------------------------------|------|------|-------|-------|------|------|
| 60.55 | 37°46.5' | 123°17.0' | VII-10 | 1946 | 2000 | 515 | 0-128 | 361 | 361 |
| 60.60 | 37°37.0' | 123°37.0' | VII-10 | 2206 | 2221 | 448 | 0-128 | 482 | 482 |
| 60.70 | 37°16.0' | 124°22.0' | VII-11 | 0406 | 0421 | 511 | 0-132 | 399 | 399 |
| 60.80 | 36°56.0' | 125°04.0' | VII-11 | 0821 | 0836 | 458 | 0-135 | 159 | 159 |
| 60.90 | 36°35.5' | 125°47.0' | VII-11 | 1359 | 1413 | 494 | 0-131 | 160 | 160 |
| 60.100 | 36°17.0' | 126°30.0' | VII-11 | 1835 | 1850 | 539 | 0-126 | 111 | 91 |
| 63.52 | 37°18.0' | 122°36.0' | VII-10 | 1424 | 1429 | 206 | 0-44 | 282 | 282 |
| 63.55 | 37°14.0' | 122°50.0' | VII-10 | 1236 | 1250 | 497 | 0-133 | 568 | 451 |
| 67.50 | 36°49.0' | 122°05.0' | VII-9 | 2249 | 2257 | 282 | 0-70 | 1584 | 1063 |
| 67.55 | 36°38.5' | 122°25.5' | VII-10 | 0056 | 0110 | (506) | 0-123 | 641 | 641 |
| 67.65 | 36°19.0' | 123°09.0' | VII-10 | 0526 | 0540 | 520 | 0-118 | 237 | 237 |
| 70.52 | 36°08.0' | 121°49.0' | VII-13 | 0305 | 0320 | 478 | 0-144 | 543 | 543 |
| 70.55 | 36°02.0' | 122°01.5' | VII-13 | 0026 | 0040 | 482 | 0-139 | 479 | 438 |
| 70.60 | 35°52.0' | 122°23.0' | VII-12 | 2156 | 2210 | 500 | 0-129 | 376 | 376 |
| 70.70 | 35°33.0' | 123°06.0' | VII-12 | 1616 | 1630 | 544 | 0-120 | 31 | 31 |
| 70.80 | 35°11.5' | 123°47.5' | VII-12 | 1049 | 1104 | 505 | 0-134 | 36 | 36 |
| 73.50 | | | Occupied. Sample not quantitative | | | | | | |
| 73.60 | | | Occupied. Sample not quantitative | | | | | | |
| 77.50 | 35°04.0' | 120°52.0' | VII-14 | 0237 | 0249 | 398 | 0-123 | 623 | 623 |
| 77.55 | 34°54.5' | 121°13.0' | VII-13 | 2316 | 2331 | 490 | 0-144 | 710 | 710 |
| 77.65 | 34°34.0' | 121°55.0' | VII-13 | 1828 | 1844 | 508 | 0-134 | 535 | 535 |
| 80.51 | 34°27.5' | 120°30.5' | VII-14 | 0729 | 0733 | 161 | 0-33 | 174 | 174 |
| 80.55 | 34°19.5' | 120°48.5' | VII-14 | 0930 | 0935 | 520 | 0-124 | 119 | 119 |
| 80.60 | 34°09.0' | 121°08.5' | VII-14 | 1240 | 1254 | 519 | 0-118 | 486 | 486 |
| 80.70 | 33°49.0' | 121°50.0' | VII-14 | 1711 | 1726 | 503 | 0-125 | 378 | 378 |
| 80.80 | 33°29.0' | 122°32.0' | VII-14 | 2255 | 2311 | 524 | 0-134 | 164 | 164 |
| 80.90 | 33°09.0' | 123°13.0' | VII-15 | 0337 | 0352 | 512 | 0-133 | 174 | 92 |
| 82.47 | 34°15.0' | 119°58.0' | VII-16 | 0549 | 0604 | 550 | 0-128 | 67 | 67 |
| 83.40 | 34°15.0' | 119°23.0' | VII-16 | 1220 | 1222 | (61) | 0-13 | 131 | 131 |
| 83.43 | 34°08.0' | 119°34.0' | VII-16 | 1056 | 1111 | 464 | 0-135 | 60 | 60 |
| 83.48 | 33°58.5' | 119°55.0' | VII-16 | 0254 | 0302 | 282 | 0-68 | 103 | 103 |
| 83.51 | 33°52.0' | 120°08.5' | VII-16 | 0029 | 0040 | 454 | 0-86 | 66 | 66 |
| 83.55 | 33°40.0' | 120°18.5' | VII-15 | 2106 | 2120 | 553 | 0-127 | 427 | 427 |

Plankton Volumes, Cruise 5407, July 1954 (cont'd)

| Sta. | Position | | Time (PST) | | Vol. water strained C.M. | Depth of haul in meters | Vol. per 1000 C.M. strained Total Sm.org. | | | |
|--------|----------|-----------|-----------------------------------|-------|--------------------------|-------------------------|---|------|------|--|
| | N. lat. | W. long | (1954) Date | Start | | | End | cc. | cc. | |
| 83.60 | 33°34.0' | 120°45.0' | VII-15 | 1715 | 1730 | 478 | 0-147 | 668 | 511 | |
| 85.39 | | | Occupied. Sample not quantitative | | | | | | | |
| 85.40 | 33°57.0' | 119°10.5' | VII-16 | 1634 | 1648 | 501 | 0-128 | 116 | 116 | |
| 85.45 | 33°47.0' | 119°31.0' | VII-16 | 1846 | 1901 | 509 | 0-128 | 114 | 114 | |
| 85.50 | 33°37.0' | 119°52.0' | VII-16 | 2156 | 2211 | 474 | 0-134 | 230 | 230 | |
| 85.55 | 33°27.0' | 120°12.5' | VII-17 | 0038 | 0052 | 477 | 0-122 | 237 | 237 | |
| 85.60 | 33°15.5' | 120°32.0' | VII-17 | 0416 | 0431 | 412 | 0-147 | 403 | 403 | |
| 87.35 | 33°50.0' | 118°37.5' | VII-17 | 2101 | 2116 | (523) | 0-118 | 172 | 172 | |
| 87.40 | 33°40.5' | 118°59.0' | VII-17 | 1806 | 1820 | (534) | 0-116 | 487 | 487 | |
| 87.45 | 33°30.0' | 119°19.0' | VII-17 | 1526 | 1540 | 345 | 0-139 | 203 | 203 | |
| 87.50 | 33°20.0' | 119°39.5' | VII-17 | 1305 | 1310 | 193 | 0-48 | 367 | 367 | |
| 87.55 | 33°10.0' | 120°00.5' | VII-17 | 1026 | 1041 | 413 | 0-148 | 482 | 482 | |
| 87.60 | 32°56.5' | 120°21.0' | VII-17 | 0657 | 0712 | 455 | 0-145 | 686 | 686 | |
| 90.28 | 33°28.5' | 117°47.0' | VII-18 | 0201 | 0216 | 450 | 0-115 | 238 | 238 | |
| 90.30 | 33°24.0' | 117°55.5' | VII-18 | 0356 | 0410 | 440 | 0-138 | 168 | 168 | |
| 90.37 | 33°11.0' | 118°22.0' | VII-18 | 0813 | 0828 | 351 | 0-146 | 51 | 51 | |
| 90.45 | 32°54.5' | 118°56.5' | VII-19 | 1226 | 1240 | (443) | 0-142 | 79 | 79 | |
| 90.55 | 32°35.0' | 119°37.0' | VII-19 | 1642 | 1656 | 413 | 0-143 | 278 | 278 | |
| 90.60 | 32°25.0' | 119°57.5' | VII-19 | 2016 | 2030 | 411 | 0-134 | 253 | 253 | |
| 90.70 | 32°07.0' | 120°34.0' | VII-20 | 0101 | 0116 | 479 | 0-140 | 435 | 435 | |
| 93.27 | 32°56.0' | 117°19.0' | VII-21 | 0026 | 0039 | (424) | 0-118 | 717 | 717 | |
| 93.30 | 32°50.0' | 117°31.5' | VII-20 | 2149 | 2304 | 547 | 0-130 | 216 | 216 | |
| 93.35 | 32°40.0' | 117°52.0' | VII-20 | 1916 | 1931 | 396 | 0-132 | 106 | 106 | |
| 93.40 | 32°30.0' | 118°12.5' | VII-20 | 1649 | 1704 | 352 | 0-159 | 580 | 580 | |
| 93.45 | 32°20.0' | 118°33.0' | VII-20 | 1418 | 1432 | 340 | 0-124 | 882 | 882 | |
| 93.50 | 32°11.0' | 118°53.5' | VII-20 | 1053 | 1108 | 354 | 0-151 | 209 | 209 | |
| 97.30 | 32°14.5' | 117°09.5' | VII-21 | 0513 | 0519 | 138 | 0-49 | 2143 | 2143 | |
| 97.32 | 32°10.5' | 117°17.0' | VII-21 | 0611 | 0626 | 489 | 0-138 | 190 | 190 | |
| 97.40 | 31°57.0' | 117°50.5' | VII-21 | 0950 | 1004 | 432 | 0-114 | 239 | 239 | |
| 97.45 | 31°47.0' | 118°11.0' | VII-21 | 1311 | 1326 | 474 | 0-117 | 203 | 203 | |
| 97.50 | 31°37.0' | 118°31.5' | VII-21 | 1539 | 1554 | 381 | 0-135 | 74 | 74 | |
| 100.29 | 31°42.2' | 116°43.4' | VII-18 | 0721 | 0734 | 475 | 0-115 | 65 | 65 | |
| 100.30 | 31°41.5' | 116°46.8' | VII-18 | 0631 | 0645 | 530 | 0-125 | 68 | 68 | |
| 100.35 | 31°35.0' | 117°09.5' | VII-18 | 0346 | 0400 | 489 | 0-135 | 84 | 84 | |
| 100.40 | 31°23.5' | 117°29.1' | VII-18 | 0126 | 0140 | 495 | 0-137 | 99 | 99 | |
| 100.45 | 31°13.3' | 117°48.8' | VII-17 | 2317 | 2328 | 333 | 0-113 | 84 | 84 | |
| 100.50 | 31°02.5' | 118°08.5' | VII-17 | 1956 | 2010 | 468 | 0-137 | 122 | 122 | |
| 100.60 | 30°42.0' | 118°49.5' | VII-17 | 1526 | 1540 | 475 | 0-139 | 53 | 53 | |
| 100.70 | 30°18.4' | 119°21.5' | VII-17 | 1011 | 1026 | 453 | 0-142 | 68 | 68 | |
| 100.90 | 30°02.2' | 119°54.0' | VII-17 | 0646 | 0700 | 477 | 0-137 | 71 | 71 | |
| 103.30 | 31°05.9' | 116°25.2' | VII-16 | 0948 | 0956 | 204 | 0-68 | 568 | 568 | |
| 103.35 | 30°56.0' | 116°45.6' | VII-16 | 1216 | 1231 | 478 | 0-134 | 50 | 50 | |
| 103.40 | 30°45.1' | 117°07.0' | VII-16 | 1451 | 1506 | 431 | 0-145 | 51 | 51 | |
| 107.32 | 30°27.3' | 116°11.0' | VII-16 | 0546 | 0600 | 432 | 0-150 | 93 | 93 | |
| 107.35 | 30°20.9' | 116°23.5' | VII-16 | 0321 | 0335 | 444 | 0-140 | 68 | 68 | |

Plankton Volumes, Cruise 5407, July 1954 (cont'd)

| Sta. | Position | | (1954) Date | Time (PST) | | Vol. water strained C.M. | Depth of haul in meters | Vol. per 1000 C.M. strained Total Sm.org. | |
|--------|----------|-----------|----------------|------------|------|-----------------------------------|-------------------------------|---|-----|
| | N. lat. | W. long. | | Start | End | | | cc. | cc. |
| 107.40 | 30°10.5' | 116°43.5' | VII-16 | 0101 | 0116 | 449 | 0-148 | 220 | 220 |
| 110.33 | 29°51.8' | 115°54.5' | VII-15 | 0111 | 0126 | 418 | 0-154 | 86 | 86 |
| 110.35 | 29°46.5' | 116°00.0' | VII-15 | 0246 | 0300 | 466 | 0-136 | 172 | 172 |
| 110.40 | 29°36.5' | 116°16.0' | VII-15 | 0511 | 0526 | 486 | 0-132 | 125 | 125 |
| 110.45 | 29°27.5' | 116°34.1' | VII-15 | 0806 | 0821 | 441 | 0-149 | 82 | 82 |
| 110.50 | 29°18.0' | 116°52.3' | VII-15 | 1006 | 1020 | 439 | 0-153 | 59 | 59 |
| 110.60 | 28°55.8' | 117°45.0' | VII-15 | 1455 | 1510 | 467 | 0-147 | 60 | 60 |
| 113.30 | 29°23.1' | 115°18.5' | VII-14 | 2023 | 2029 | 262 | 0-50 | 375 | 375 |
| 113.35 | 29°10.6' | 115°41.5' | VII-14 | 1611 | 1626 | 430 | 0-152 | 63 | 63 |
| 113.40 | 29°02.1' | 115°58.0' | VII-14 | 1356 | 1410 | 476 | 0-144 | 46 | 46 |
| 117.26 | 28°55.4' | 114°41.5' | VII-14 | 0228 | 0236 | 263 | 0-63 | 350 | 350 |
| 117.30 | 28°45.8' | 115°00.8' | VII-14 | 0412 | 0424 | 347 | 0-104 | 557 | 557 |
| 117.35 | 28°36.9' | 115°18.2' | VII-14 | 0621 | 0636 | 406 | 0-147 | 104 | 104 |
| 117.40 | 28°27.0' | 115°37.0' | VII-14 | 0821 | 0836 | 458 | 0-139 | 26 | 26 |
| 120.25 | 28°23.0' | 114°14.5' | VII-13 | 2155 | 2202 | 191 | 0-65 | 283 | 283 |
| 120.30 | 28°13.8' | 114°33.6' | VII-13 | 1943 | 1951 | 226 | 0-85 | 346 | 346 |
| 120.35 | 28°03.2' | 114°53.2' | VII-13 | 1710 | 1718 | 225 | 0-70 | 138 | 138 |
| 120.45 | 27°43.0' | 115°32.8' | VII-13 | 0501 | 0516 | 384 | 0-147 | 200 | 200 |
| 120.50 | 27°35.4' | 115°37.1' | VII-13 | 0151 | 0206 | 407 | 0-141 | 307 | 307 |
| 120.60 | 27°15.0' | 116°25.0' | VII-12 | 2106 | 2121 | 452 | 0-145 | 71 | 58 |
| 120.70 | 26°55.0' | 117°24.2' | VII-12 | 1451 | 1506 | 468 | 0-141 | 77 | 77 |
| 120.80 | 26°39.9' | 117°49.5' | VII-12 | 1141 | 1156 | 447 | 0-143 | 87 | 87 |
| 120.90 | 26°12.2' | 118°24.1' | VII-12 | 0635 | 0650 | 469 | 0-140 | 55 | 55 |
| 123.37 | 27°24.0' | 114°39.7' | VII-10 | 2333 | 2340 | 200 | 0-51 | 355 | 355 |
| 123.40 | 27°18.0' | 114°51.5' | VII-11 | 0106 | 0121 | 485 | 0-138 | 91 | 91 |
| 123.45 | 27°08.2' | 115°10.8' | VII-11 | 0406 | 0420 | 478 | 0-137 | 84 | 84 |
| 123.50 | 26°58.0' | 115°30.5' | VII-11 | 1446 | 1501 | 457 | 0-146 | 22 | 22 |
| 127.34 | 26°55.3' | 114°06.0' | VII-10 | 1848 | 1854 | 238 | 0-52 | 227 | 227 |
| 127.40 | 26°45.9' | 114°32.5' | VII-10 | 1556 | 1610 | 491 | 0-142 | 122 | 122 |
| 127.45 | 26°34.2' | 114°48.7' | VII-10 | 1341 | 1356 | 469 | 0-156 | 151 | 151 |
| 127.50 | 26°24.5' | 115°12.1' | VII-10 | 0951 | 1005 | 473 | 0-137 | 93 | 93 |
| 130.30 | 26°29.8' | 113°29.2' | VII-9 | 1128 | 1135 | 218 | 0-82 | 101 | 101 |
| 130.35 | 26°16.3' | 113°52.8' | VII-9 | 1406 | 1421 | 552 | 0-114 | 118 | 72 |
| 130.40 | 26°07.9' | 114°06.8' | VII-9 | 1606 | 1620 | 483 | 0-138 | 37 | 37 |
| 130.45 | 25°59.0' | 114°26.9' | VII-9 | 1951 | 2005 | 446 | 0-120 | 65 | 65 |
| 130.50 | 25°49.0' | 114°46.0' | VII-9 | 2211 | 2226 | 469 | 0-145 | 198 | 198 |
| 130.60 | 25°29.0' | 115°24.0' | VII-10 | 0226 | 0240 | 451 | 0-146 | 118 | 118 |
| 133.25 | 26°04.5' | 112°48.0' | VII-9 | 0707 | 0716 | 302 | 0-84 | 458 | 458 |
| 133.30 | 25°53.6' | 113°08.8' | VII-9 | 0356 | 0410 | 456 | 0-131 | 186 | 186 |
| 133.35 | 25°43.6' | 113°28.0' | VII-9 | 0121 | 0136 | 441 | 0-151 | 181 | 181 |
| 133.40 | 25°35.3' | 113°43.9' | VII-8 | 2306 | 2320 | 481 | 0-138 | 324 | 324 |
| 137.23 | 25°34.2' | 112°18.7' | VII-8 | 1308 | 1316 | 271 | 0-69 | 505 | 505 |
| 137.30 | 25°20.0' | 112°45.5' | VII-8 | 1731 | 1745 | 479 | 0-139 | 342 | 296 |

Plankton Volumes, Cruise 5408, August 1954

| Sta. | Position | | (1954) Date | Time (PST) | | Vol. water strained C.M. | Depth of haul in meters | Vol. per 1000 C.M. strained Total Sm.org. | |
|--------|----------|-----------|----------------|------------|------|-----------------------------------|-------------------------------|---|------|
| | N. lat. | W. long. | | Start | End | | | cc. | cc. |
| 60.55 | 37°47.5' | 123°14.6' | VIII-31 | 1212 | 1224 | 314 | 0-112 | 661 | 636 |
| 60.60 | 37°36.0' | 123°38.3' | VIII-31 | 1456 | 1511 | 516 | 0-142 | 298 | 277 |
| 60.70 | 37°17.0' | 124°20.0' | VIII-31 | 2006 | 2020 | 448 | 0-138 | 384 | 384 |
| 60.80 | 36°58.8' | 125°09.6' | IX-1 | 0001 | 0016 | 500 | 0-139 | 170 | 126 |
| 60.90 | 36°36.0' | 125°57.8' | IX-1 | 0601 | 0615 | 501 | 0-131 | 106 | 106 |
| 60.100 | 36°25.5' | 126°28.0' | IX-1 | 0846 | 0901 | 584 | 0-122 | 373 | 283 |
| 63.52 | 37°19.7' | 122°32.9' | VIII-27 | 1616 | 1621 | 142 | 0-49 | 711 | 711 |
| 63.55 | 37°12.9' | 122°48.8' | VIII-27 | 1326 | 1341 | 458 | 0-149 | 393 | 393 |
| 67.50 | 36°45.8' | 122°04.0' | VIII-27 | 0001 | 0016 | 564 | 0-144 | 383 | 383 |
| 67.55 | 36°40.9' | 122°28.0' | VIII-27 | 0311 | 0326 | 548 | 0-136 | 379 | 379 |
| 67.65 | 36°20.2' | 123°12.3' | VIII-27 | 0839 | 0854 | 514 | 0-131 | 257 | 257 |
| 70.52 | 36°07.5' | 121°50.8' | IX-2 | 1452 | 1507 | 569 | 0-130 | 113 | 113 |
| 70.55 | 36°03.0' | 122°01.2' | IX-2 | 1226 | 1241 | 494 | 0-127 | 162 | 162 |
| 70.60 | 35°53.0' | 122°22.0' | IX-2 | 0926 | 0940 | 472 | 0-141 | 282 | 282 |
| 70.70 | 35°33.0' | 123°05.5' | IX-2 | 0456 | 0511 | 650 | 0-106 | 898 | 898 |
| 70.80 | 35°14.0' | 123°44.5' | IX-2 | 0004 | 0019 | 528 | 0-136 | 47 | 47 |
| 73.50 | 35°37.2' | 121°17.5' | IX-3 | 0127 | 0138 | 370 | 0-109 | 1084 | 962 |
| 73.55 | 35°26.8' | 121°39.0' | IX-2 | 2246 | 2301 | 412 | 0-143 | 1979 | 1979 |
| 73.60 | 35°16.7' | 121°58.5' | IX-2 | 1946 | 2000 | 399 | 0-153 | 561 | 561 |
| 77.50 | 35°03.8' | 120°56.0' | IX-3 | 0516 | 0531 | 477 | 0-148 | 293 | 293 |
| 77.55 | 34°53.5' | 121°20.7' | IX-3 | 0736 | 0750 | 478 | 0-143 | 905 | 905 |
| 77.65 | 34°38.5' | 121°54.5' | IX-3 | 1156 | 1211 | 509 | 0-137 | 65 | 65 |
| 80.51 | 34°25.7' | 120°33.5' | IX-5 | 0207 | 0219 | 436 | 0-117 | 41 | 41 |
| 80.55 | 34°16.5' | 120°50.3' | IX-4 | 2314 | 2329 | 523 | 0-147 | 290 | 290 |
| 80.60 | 34°06.0' | 121°12.0' | IX-4 | 2036 | 2051 | 483 | 0-143 | 261 | 261 |
| 80.70 | 33°48.2' | 121°51.0' | IX-4 | 1531 | 1546 | 546 | 0-138 | 146 | 135 |
| 80.80 | 33°30.5' | 122°30.0' | IX-4 | 1151 | 1206 | 495 | 0-137 | 226 | 226 |
| 80.90 | 33°05.0' | 123°15.0' | IX-4 | 0526 | 0541 | 512 | 0-143 | 29 | 29 |
| 80.100 | 32°49.5' | 123°54.0' | IX-4 | 0101 | 0116 | 475 | 0-141 | 80 | 80 |
| 82.47 | 34°15.0' | 119°59.0' | IX-5 | 0541 | 0556 | 482 | 0-132 | 54 | 54 |
| 83.40 | 34°13.8' | 119°22.5' | IX-5 | 1044 | 1047 | 102 | 0-19 | 39 | 39 |
| 83.43 | 34°08.0' | 119°35.5' | IX-5 | 0846 | 0900 | 489 | 0-132 | 35 | 35 |
| 83.48 | 33°57.5' | 119°54.8' | IX-5 | 1412 | 1423 | 369 | 0-97 | 33 | 33 |
| 83.51 | 33°51.5' | 120°08.0' | IX-5 | 1541 | 1556 | 564 | 0-129 | 75 | 75 |
| 83.55 | 33°43.5' | 120°25.0' | IX-5 | 1752 | 1807 | 453 | 0-151 | 119 | 119 |
| 83.60 | 33°34.5' | 120°46.5' | IX-5 | 2026 | 2040 | 463 | 0-147 | 155 | 155 |
| 85.39 | 33°59.2' | 119°04.3' | IX-6 | 1146 | 1201 | 514 | 0-140 | 58 | 58 |
| 85.40 | 33°57.8' | 119°09.2' | IX-6 | 1051 | 1105 | 668 | 0-109 | 28 | 28 |
| 85.45 | 33°49.0' | 119°32.5' | IX-6 | 0746 | 0801 | 531 | 0-128 | 36 | 36 |
| 85.50 | 33°36.5' | 119°55.0' | IX-6 | 0506 | 0521 | 542 | 0-129 | 79 | 79 |
| 85.55 | 33°27.0' | 120°16.0' | IX-6 | 0156 | 0211 | 513 | 0-136 | 146 | 146 |
| 85.60 | 33°19.2' | 120°35.5' | IX-5 | 2326 | 2341 | 461 | 0-147 | 221 | 221 |
| 87.35 | 33°49.0' | 118°37.5' | IX-6 | 1446 | 1501 | 477 | 0-137 | 65 | 65 |
| 87.40 | 33°39.5' | 118°59.5' | IX-6 | 1701 | 1716 | 466 | 0-144 | 56 | 56 |
| 87.45 | 33°29.5' | 119°20.0' | IX-6 | 1946 | 2001 | 511 | 0-128 | 137 | 137 |

Plankton Volumes, Cruise 5408, August 1954 (cont'd)

| Sta. | Position | | (1954) Date | Time (PST) | | Vol. water strained C.M. | Depth of haul in meters | Vol. per 1000 C.M. strained | |
|--------|----------|-----------|----------------|------------|------|-----------------------------------|-------------------------------|--------------------------------|-----------------|
| | N. lat. | W. long. | | Start | End | | | Total cc. | Sm. org. cc. |
| 87.50 | 33°20.6' | 119°40.2' | IX-6 | 2218 | 2225 | 224 | 0-53 | 85 | 85 |
| 87.55 | 33°10.2' | 120°02.7' | IX-7 | 0100 | 0115 | 536 | 0-139 | 194 | 194 |
| 87.60 | 32°58.6' | 120°28.4' | IX-7 | 0336 | 0351 | 537 | 0-133 | 209 | 190 |
| 90.28 | 33°28.5' | 117°45.0' | IX-8 | 0909 | 0913 | 195 | 0-26 | 36 | 36 |
| 90.30 | 33°23.5' | 117°54.2' | IX-8 | 0736 | 0751 | 551 | 0-123 | 125 | 125 |
| 90.37 | 33°10.4' | 118°22.8' | IX-8 | 0411 | 0426 | 504 | 0-141 | 32 | 32 |
| 90.45 | 32°57.0' | 118°50.6' | IX-8 | 0111 | 0126 | 497 | 0-134 | 72 | 72 |
| 90.55 | 32°28.3' | 119°39.0' | IX-7 | 1936 | 1950 | 478 | 0-143 | 126 | 126 |
| 90.60 | 32°20.4' | 119°56.1' | IX-7 | 1716 | 1731 | 516 | 0-140 | 50 | 50 |
| 90.70 | 32°05.0' | 120°42.0' | IX-7 | 1111 | 1126 | 535 | 0-134 | 73 | 73 |
| 93.27 | 32°55.0' | 117°17.7' | IX-8 | 1303 | 1310 | 249 | 0-47 | 28 | 28 |
| 93.30 | 32°50.0' | 117°30.3' | IX-8 | 1436 | 1451 | 548 | 0-140 | 33 | 33 |
| 93.35 | 32°39.8' | 117°51.0' | IX-8 | 1726 | 1741 | 483 | 0-129 | 93 | 93 |
| 93.40 | 32°30.0' | 118°11.7' | IX-8 | 1946 | 2001 | 460 | 0-140 | 200 | 200 |
| 93.45 | 32°20.0' | 118°33.0' | IX-8 | 2211 | 2226 | 537 | 0-117 | 140 | 140 |
| 93.50 | 32°09.5' | 118°55.5' | IX-9 | 0036 | 0051 | 454 | 0-134 | 101 | 101 |
| 97.30 | 32°14.1' | 117°07.0' | IX-9 | 1633 | 1640 | 215 | 0-68 | 56 | 56 |
| 97.32 | 32°08.5' | 117°11.0' | IX-9 | 1501 | 1516 | 488 | 0-133 | 57 | 57 |
| 97.40 | 31°54.6' | 117°46.5' | IX-9 | 1021 | 1036 | 497 | 0-141 | 60 | 60 |
| 97.45 | 31°45.3' | 118°16.0' | IX-9 | 0716 | 0731 | 464 | 0-142 | 121 | 121 |
| 97.50 | 31°35.5' | 118°34.0' | IX-9 | 0446 | 0501 | 518 | 0-128 | 87 | 87 |
| 100.29 | 31°42.0' | 116°43.0' | IX-1 | 1118 | 1126 | 247 | 0-70 | 73 | 73 |
| 100.30 | 31°40.5' | 116°46.5' | IX-1 | 1021 | 1036 | 477 | 0-138 | 40 | 40 |
| 100.35 | 31°29.0' | 117°05.0' | IX-1 | 0816 | 0830 | 438 | 0-139 | 37 | 37 |
| 100.40 | 31°22.5' | 117°23.5' | IX-1 | 0621 | 0636 | 477 | 0-140 | 59 | 59 |
| 100.45 | 31°11.5' | 117°44.5' | IX-1 | 0351 | 0406 | 478 | 0-142 | 84 | 84 |
| 100.50 | 31°01.0' | 118°06.0' | IX-1 | 0026 | 0040 | 502 | 0-135 | 121 | 121 |
| 100.60 | 30°40.5' | 118°47.0' | VIII-31 | 1946 | 2001 | 475 | 0-138 | 67 | 67 |
| 100.70 | 30°20.5' | 119°28.0' | VIII-31 | 1426 | 1441 | 465 | 0-139 | 52 | 52 |
| 100.80 | | | Not occupied | | | | | | |
| 103.30 | 31°05.0' | 116°25.5' | VIII-30 | 1913 | 1920 | 240 | 0-52 | 83 | 83 |
| 103.35 | 30°55.0' | 116°45.5' | VIII-30 | 2141 | 2156 | 456 | 0-138 | 118 | 118 |
| 103.40 | 30°46.0' | 117°04.0' | VIII-31 | 0011 | 0026 | 470 | 0-140 | 94 | 94 |
| 107.32 | 30°25.7' | 116°11.0' | VIII-30 | 1421 | 1436 | 461 | 0-142 | 65 | 65 |
| 107.35 | 30°20.5' | 116°23.5' | VIII-30 | 1211 | 1226 | 494 | 0-135 | 73 | 73 |
| 107.40 | 30°11.0' | 116°42.0' | VIII-30 | 0956 | 1010 | 414 | 0-148 | 128 | 128 |
| 110.33 | 29°50.5' | 115°52.0' | VIII-29 | 0913 | 0920 | 261 | 0-69 | 84 | 84 |
| 110.35 | 29°46.0' | 115°59.5' | VIII-29 | 1036 | 1051 | 462 | 0-145 | 104 | 104 |
| 110.40 | 29°36.5' | 116°17.5' | VIII-29 | 1306 | 1320 | 459 | 0-146 | 122 | 122 |
| 110.45 | 29°26.0' | 116°39.0' | VIII-29 | 1631 | 1646 | 458 | 0-148 | 68 | 68 |
| 110.50 | 29°16.5' | 116°58.5' | VIII-29 | 1906 | 1920 | 464 | 0-144 | 198 | 175 |
| 110.60 | 28°57.0' | 117°38.5' | VIII-29 | 2336 | 2351 | 487 | 0-143 | 107 | 107 |
| 113.30 | 29°22.0' | 115°17.0' | VIII-29 | 0353 | 0400 | 236 | 0-56 | 614 | 614 |
| 113.35 | 29°10.5' | 115°37.5' | VIII-28 | 2331 | 2345 | 548 | 0-132 | 69 | 69 |
| 113.40 | 29°02.0' | 115°58.5' | VIII-28 | 2021 | 2036 | 492 | 0-144 | 195 | 195 |

Plankton Volumes, Cruise 5408, August 1954 (cont'd)

| Sta. | Position | | (1954) Date | Time (PST) | | Vol. water strained C.M. | Depth of haul in meters | Vol. per 1000 C.M. strained | |
|--------|----------|-----------|----------------|------------|------|-----------------------------------|-------------------------------|--------------------------------|----------------|
| | N.lat. | W.long. | | Start | End | | | Total cc. | Sm.org. cc. |
| 117.26 | 28°56.0' | 114°41.0' | VIII-27 | 0643 | 0650 | 270 | 0-63 | 89 | 89 |
| 117.30 | 28°48.0' | 114°56.5' | VIII-27 | 0838 | 0847 | 286 | 0-84 | 140 | 140 |
| 117.35 | 28°38.0' | 115°16.0' | VIII-27 | 1401 | 1416 | 515 | 0-134 | 113 | 113 |
| 117.40 | 28°27.0' | 115°35.0' | VIII-27 | 1636 | 1650 | 490 | 0-142 | 208 | 192 |
| 120.25 | 28°23.5' | 114°15.5' | VIII-27 | 0038 | 0044 | 206 | 0-47 | 24 | 24 |
| 120.30 | 28°11.0' | 114°38.0' | VIII-26 | 2113 | 2121 | 304 | 0-75 | 76 | 76 |
| 120.35 | 28°02.5' | 114°54.0' | VIII-25 | 2103 | 2111 | 260 | 0-68 | 96 | 96 |
| 120.45 | 27°41.0' | 115°37.0' | VIII-25 | 1526 | 1540 | 413 | 0-151 | 111 | 111 |
| 120.50 | 27°33.0' | 115°52.0' | VIII-25 | 1206 | 1221 | 486 | 0-138 | 66 | 66 |
| 120.60 | 27°13.0' | 116°30.0' | VIII-25 | 0721 | 0735 | 454 | 0-145 | 44 | 44 |
| 120.70 | 26°52.5' | 117°10.0' | VIII-25 | 0146 | 0200 | 490 | 0-146 | 69 | 69 |
| 120.80 | 26°33.0' | 117°48.0' | VIII-24 | 2106 | 2120 | 490 | 0-140 | 75 | 75 |
| 120.90 | 26°12.5' | 118°27.0' | VIII-24 | 1526 | 1540 | 490 | 0-141 | 47 | 47 |
| 123.37 | 27°24.0' | 114°39.5' | VIII-23 | 1508 | 1516 | 254 | 0-69 | 472 | 472 |
| 123.40 | 27°18.0' | 114°52.0' | VIII-23 | 1656 | 1710 | 433 | 0-144 | 291 | 291 |
| 123.45 | 27°07.5' | 115°12.0' | VIII-23 | 2016 | 2031 | 454 | 0-138 | 119 | 119 |
| 123.50 | 26°58.0' | 115°31.0' | VIII-23 | 2256 | 2311 | 434 | 0-145 | 129 | 129 |
| 127.34 | 26°56.0' | 114°07.5' | VIII-23 | 1023 | 1031 | 239 | 0-69 | 452 | 452 |
| 127.40 | 26°43.0' | 114°30.0' | VIII-23 | 0701 | 0715 | 474 | 0-134 | 296 | 279 |
| 127.45 | 26°28.0' | 114°49.0' | VIII-23 | 0350 | 0406 | 477 | 0-141 | 172 | 172 |
| 127.50 | 26°21.0' | 115°10.5' | VIII-23 | 0026 | 0040 | 495 | 0-137 | 117 | 101 |
| 130.30 | 26°26.0' | 113°32.0' | VIII-22 | 0213 | 0221 | 243 | 0-72 | 136 | 136 |
| 130.35 | 26°17.0' | 113°49.5' | VIII-22 | 0436 | 0450 | 502 | 0-135 | 100 | 100 |
| 130.40 | 26°09.0' | 114°07.5' | VIII-22 | 0711 | 0725 | 316 | 0-147 | 222 | 222 |
| 130.45 | 25°59.5' | 114°29.0' | VIII-22 | 1041 | 1056 | 413 | 0-141 | 104 | 104 |
| 130.50 | 25°50.5' | 114°46.5' | VIII-22 | 1301 | 1316 | 396 | 0-143 | 68 | 68 |
| 130.60 | 25°31.5' | 115°24.0' | VIII-22 | 1718 | 1732 | 466 | 0-146 | 324 | 251 |
| 133.25 | 26°04.5' | 112°48.0' | VIII-21 | 2028 | 2036 | 263 | 0-69 | 312 | 312 |
| 133.30 | 25°54.5' | 113°07.0' | VIII-21 | 1716 | 1730 | 454 | 0-145 | 49 | 49 |
| 133.35 | 25°44.5' | 113°26.0' | VIII-21 | 1426 | 1440 | 430 | 0-142 | 56 | 56 |
| 133.40 | 25°34.0' | 113°45.5' | VIII-21 | 1151 | 1206 | 343 | 0-148 | 239 | 239 |
| 137.23 | 25°34.2' | 112°18.5' | VIII-21 | 0228 | 0245 | 297 | 0-41 | 708 | 708 |
| 137.30 | 25°20.0' | 112°45.5' | VIII-21 | 0556 | 0610 | 503 | 0-138 | 235 | 235 |

Plankton Volumes, Cruise 5410, October 1954

| | | | | | | | | | |
|-------|----------|-----------|-----|------|------|-----|-------|-----|-----|
| 77.50 | 35°04.0' | 120°52.0' | X-6 | 1821 | 1835 | 429 | 0-122 | 385 | 385 |
| 77.55 | 34°54.0' | 121°13.0' | X-6 | 1436 | 1451 | 573 | 0-112 | 321 | 321 |
| 80.51 | 34°26.0' | 120°33.0' | X-7 | 1347 | 1358 | 383 | 0-96 | 159 | 159 |
| 80.55 | 34°19.0' | 120°48.0' | X-7 | 1626 | 1641 | 467 | 0-145 | 334 | 334 |
| 80.60 | 34°09.0' | 121°09.0' | X-7 | 2001 | 2016 | 441 | 0-145 | 215 | 215 |
| 80.70 | 33°47.0' | 121°48.0' | X-8 | 0051 | 0106 | 405 | 0-150 | 197 | 197 |
| 80.80 | 33°26.0' | 122°32.0' | X-8 | 0826 | 0840 | 432 | 0-136 | 250 | 201 |
| 80.90 | 33°09.0' | 123°13.0' | X-8 | 1311 | 1326 | 473 | 0-147 | 44 | 44 |
| 82.47 | 34°15.0' | 119°58.0' | X-9 | 1656 | 1711 | 450 | 0-139 | 100 | 100 |

Plankton Volumes, Cruise 5410, October 1954 (cont'd)

| Sta. | Position | | (1954) Date | Time (PST) | | Vol. water strained C.M. | Depth of haul in meters | Vol. per 1000 C.M. strained Total Sm.org. | |
|--------|----------|-----------|-----------------------------------|------------|------|-----------------------------------|-------------------------------|---|-----|
| | N.lat. | W.long. | | Start | End | | | cc. | cc. |
| 83.40 | 34°13.5' | 119°22.0' | X-9 | 2344 | 2347 | 86 | 0-20 | 5 | 5 |
| 83.43 | 34°05.5' | 119°35.5' | X-9 | 2143 | 2150 | 254 | 0-65 | 228 | 228 |
| 83.48 | 33°57.5' | 119°55.0' | X-9 | 1418 | 1427 | 282 | 0-75 | 96 | 96 |
| 83.51 | 33°51.0' | 120°08.0' | X-9 | 1136 | 1150 | 416 | 0-143 | 77 | 77 |
| 83.55 | 33°43.5' | 120°24.0' | X-9 | 0911 | 0925 | 446 | 0-151 | 191 | 191 |
| 83.60 | 33°35.0' | 120°47.0' | X-9 | 0456 | 0511 | 476 | 0-140 | 113 | 99 |
| 85.39 | 33°59.0' | 119°05.5' | X-10 | 0146 | 0201 | 469 | 0-136 | 111 | 111 |
| 85.40 | 33°57.0' | 119°10.0' | X-10 | 0316 | 0331 | 469 | 0-141 | 132 | 132 |
| 85.45 | 33°47.0' | 119°31.0' | X-10 | 0606 | 0621 | 441 | 0-130 | 245 | 245 |
| 85.50 | 33°37.0' | 119°52.0' | X-10 | 0936 | 0950 | 358 | 0-131 | 198 | 198 |
| 85.55 | 33°27.0' | 120°12.0' | X-10 | 1221 | 1236 | 383 | 0-147 | 183 | 183 |
| 85.60 | 33°15.5' | 120°36.5' | X-10 | 1551 | 1606 | 454 | 0-140 | 238 | 238 |
| 87.35 | 33°51.5' | 118°36.5' | X-11 | 0906 | 0920 | 531 | 0-131 | 49 | 49 |
| 87.40 | | | Occupied. Sample not quantitative | | | | | | |
| 87.45 | 33°30.0' | 119°19.0' | X-11 | 0316 | 0330 | 482 | 0-138 | 299 | 299 |
| 87.50 | 33°20.0' | 119°40.0' | X-11 | 0046 | 0053 | 246 | 0-70 | 398 | 398 |
| 87.55 | 33°10.0' | 120°00.5' | X-10 | 2146 | 2200 | 479 | 0-129 | 503 | 338 |
| 87.60 | 33°00.0' | 120°21.0' | X-10 | 1816 | 1831 | 464 | 0-139 | 220 | 207 |
| 90.28 | 33°28.5' | 117°45.5' | X-12 | 1138 | 1146 | 302 | 0-79 | 46 | 46 |
| 90.30 | 33°24.0' | 117°54.5' | X-12 | 1306 | 1321 | 444 | 0-139 | 90 | 90 |
| 90.37 | 33°10.5' | 118°23.0' | X-12 | 1631 | 1646 | 465 | 0-133 | 80 | 80 |
| 90.45 | 32°54.5' | 118°56.0' | X-12 | 2056 | 2110 | 454 | 0-131 | 152 | 152 |
| 90.50 | 32°44.0' | 119°16.0' | X-12 | 2348 | 2356 | 239 | 0-66 | 209 | 209 |
| 90.55 | 32°34.0' | 119°36.5' | X-13 | 0226 | 0241 | 467 | 0-128 | 229 | 203 |
| 90.60 | 32°24.0' | 119°57.0' | X-13 | 0506 | 0521 | 456 | 0-146 | 243 | 243 |
| 90.70 | 32°05.0' | 120°38.0' | X-13 | 0941 | 0956 | 459 | 0-142 | 92 | 92 |
| 93.27 | 32°56.0' | 117°19.0' | X-14 | 1028 | 1036 | 230 | 0-67 | 118 | 118 |
| 93.30 | 32°50.0' | 117°31.0' | X-14 | 0816 | 0830 | 460 | 0-136 | 89 | 89 |
| 93.40 | 32°30.5' | 118°12.5' | X-14 | 0346 | 0401 | 456 | 0-136 | 149 | 149 |
| 93.45 | 32°20.0' | 118°33.0' | X-14 | 0106 | 0121 | 483 | 0-128 | 132 | 132 |
| 93.50 | 32°10.0' | 118°53.0' | X-13 | 2136 | 2150 | 428 | 0-140 | 91 | 91 |
| 93.55 | 32°00.5' | 119°13.5' | X-13 | 1856 | 1911 | 459 | 0-148 | 148 | 148 |
| 97.30 | 32°15.5' | 117°09.0' | X-14 | 1516 | 1521 | 151 | 0-48 | 159 | 159 |
| 97.32 | 32°11.5' | 117°17.0' | X-14 | 1611 | 1626 | 382 | 0-142 | 73 | 73 |
| 97.40 | 31°55.5' | 117°50.0' | X-14 | 1956 | 2010 | 406 | 0-139 | 126 | 126 |
| 97.45 | 31°45.0' | 118°10.0' | X-14 | 2256 | 2310 | 446 | 0-128 | 144 | 144 |
| 97.50 | 31°35.0' | 118°30.0' | X-15 | 0126 | 0141 | 337 | 0-140 | 101 | 101 |
| 97.55 | 31°25.0' | 118°51.0' | X-15 | 0356 | 0411 | 379 | 0-142 | 121 | 121 |
| 100.29 | 31°42.0' | 116°43.5' | X-17 | 0048 | 0056 | 306 | 0-81 | 72 | 72 |
| 100.30 | 31°40.5' | 116°46.5' | X-16 | 2356 | 0011 | 434 | 0-136 | 67 | 67 |
| 100.40 | 31°21.0' | 117°27.0' | X-16 | 1901 | 1915 | 466 | 0-142 | 129 | 129 |
| 100.45 | 31°10.5' | 117°47.0' | X-16 | 1636 | 1650 | 438 | 0-141 | 71 | 71 |
| 100.50 | 31°02.0' | 118°05.0' | X-16 | 1341 | 1356 | 450 | 0-149 | 40 | 40 |
| 100.55 | 30°52.5' | 118°26.5' | X-16 | 1126 | 1140 | 423 | 0-144 | 80 | 80 |
| 100.60 | 30°42.0' | 118°48.0' | X-16 | 0826 | 0840 | 485 | 0-145 | 49 | 49 |

Plankton Volumes, Cruise 5410, October 1954 (cont'd)

| Sta. | Position | | (1954) Date | Time (PST) | | Vol. water strained C.M. | Depth of haul in meters | Vol. per 1000 C.M. strained | |
|--------|----------|-----------|----------------|------------|------|-----------------------------------|-------------------------------|--------------------------------|-----------------|
| | N. lat. | W. long. | | Start | End | | | Total cc. | Sm. org. cc. |
| 100.70 | 30°22.0' | 119°28.0' | X-16 | 0346 | 0401 | 484 | 0-140 | 105 | 105 |
| 100.80 | 30°01.5' | 120°08.0' | X-15 | 2316 | 2331 | 484 | 0-147 | 45 | 45 |
| 100.90 | 29°41.0' | 120°48.0' | X-15 | 1801 | 1816 | 479 | 0-141 | 31 | 31 |
| 103.30 | 31°05.5' | 116°24.2' | X-24 | 0704 | 0709 | 237 | 0-33 | 793 | 793 |
| 103.35 | 30°55.3' | 116°44.8' | X-24 | 0911 | 0925 | 510 | 0-118 | 121 | 121 |
| 103.40 | 30°45.5' | 117°05.2' | X-24 | 1229 | 1244 | 457 | 0-132 | 53 | 53 |
| 107.32 | 30°25.8' | 116°11.0' | X-24 | 0156 | 0211 | 450 | 0-145 | 113 | 113 |
| 107.35 | 30°22.0' | 116°23.3' | X-24 | 0031 | 0046 | 466 | 0-138 | 195 | 195 |
| 107.40 | 30°11.6' | 116°45.0' | X-23 | 2126 | 2140 | 456 | 0-129 | 136 | 136 |
| 110.33 | 29°51.6' | 115°52.5' | X-22 | 2243 | 2251 | 346 | 0-63 | 318 | 318 |
| 110.35 | 29°47.0' | 116°01.0' | X-22 | 2331 | 2346 | 470 | 0-122 | 113 | 113 |
| 110.40 | 29°37.0' | 116°19.7' | X-23 | 0305 | 0320 | 412 | 0-145 | 158 | 158 |
| 110.45 | 29°25.8' | 116°41.0' | X-23 | 0541 | 0555 | 511 | 0-140 | 145 | 133 |
| 110.50 | 29°16.5' | 116°59.0' | X-23 | 0736 | 0750 | 478 | 0-136 | 36 | 36 |
| 110.55 | 29°00.0' | 117°25.0' | X-23 | 1006 | 1020 | 479 | 0-129 | 54 | 54 |
| 110.60 | 29°00.0' | 117°38.0' | X-23 | 1233 | 1248 | 413 | 0-138 | 92 | 92 |
| 113.30 | 29°25.0' | 115°19.2' | X-22 | 1759 | 1804 | 166 | 0-43 | 157 | 157 |
| 113.35 | 29°13.0' | 115°38.8' | X-22 | 1521 | 1536 | 480 | 0-126 | 114 | 114 |
| 113.40 | 29°03.4' | 115°58.0' | X-22 | 1216 | 1231 | 420 | 0-140 | 145 | 145 |
| 117.26 | 28°52.5' | 114°38.8' | X-22 | 0038 | 0046 | 249 | 0-65 | 329 | 329 |
| 117.30 | 28°48.0' | 114°56.5' | X-22 | 0304 | 0313 | 340 | 0-62 | 162 | 162 |
| 117.35 | 28°36.6' | 115°17.0' | X-22 | 0506 | 0521 | 594 | 0-88 | 246 | 246 |
| 117.40 | 28°29.0' | 115°35.7' | X-22 | 0800 | 0814 | 510 | 0-112 | 358 | 358 |
| 120.25 | 28°21.5' | 114°21.0' | X-21 | 2034 | 2039 | 233 | 0-28 | 206 | 206 |
| 120.30 | 28°13.0' | 114°34.0' | X-21 | 1758 | 1806 | 257 | 0-66 | 315 | 315 |
| 120.35 | 28°03.0' | 114°54.0' | X-21 | 1548 | 1556 | 359 | 0-37 | 186 | 170 |
| 120.45 | 27°43.0' | 115°33.0' | X-20 | 2326 | 2340 | 464 | 0-134 | 496 | 293 |
| 120.50 | 27°33.2' | 115°52.8' | X-20 | 2116 | 2130 | 526 | 0-103 | 304 | 304 |
| 120.55 | | | | Occupied. | | Sample not | quantitative | | |
| 120.60 | 27°13.5' | 116°30.2' | X-20 | 1536 | 1551 | 399 | 0-147 | 286 | 261 |
| 120.70 | 26°46.4' | 117°06.7' | X-20 | 1101 | 1116 | 465 | 0-124 | 191 | 191 |
| 120.80 | 26°38.4' | 117°46.5' | X-20 | 0601 | 0616 | 439 | 0-146 | 89 | 89 |
| 120.90 | 26°15.0' | 118°27.0' | X-20 | 0124 | 0139 | 489 | 0-143 | 119 | 119 |
| 123.37 | 27°24.0' | 114°39.5' | X-19 | 0028 | 0035 | 238 | 0-56 | 164 | 164 |
| 123.40 | 27°18.0' | 114°52.0' | X-19 | 0226 | 0241 | 445 | 0-145 | 427 | 283 |
| 123.45 | 27°07.5' | 115°11.5' | X-19 | 0441 | 0455 | 471 | 0-135 | 85 | 85 |
| 123.50 | 26°56.5' | 115°30.0' | X-19 | 0656 | 0711 | 435 | 0-141 | 124 | 124 |
| 123.55 | 26°47.0' | 115°47.5' | X-19 | 1008 | 1022 | 466 | 0-141 | 71 | 71 |
| 127.34 | | | | Occupied. | | Sample not | quantitative | | |
| 127.40 | 26°47.5' | 114°29.5' | X-18 | 1741 | 1755 | 433 | 0-146 | 252 | 210 |
| 127.45 | 26°34.0' | 114°54.0' | X-18 | 1426 | 1441 | 462 | 0-136 | 138 | 113 |
| 127.50 | 26°22.5' | 115°09.0' | X-18 | 1216 | 1231 | 605 | 0-96 | 147 | 147 |
| 127.55 | 26°12.5' | 115°27.0' | X-18 | 0911 | 0924 | 449 | 0-141 | 566 | 544 |
| 130.30 | 26°29.0' | 113°27.5' | X-17 | 1223 | 1230 | 267 | 0-36 | 146 | 146 |
| 130.35 | 26°19.5' | 113°45.0' | X-17 | 1427 | 1438 | 464 | 0-74 | 82 | 82 |

Plankton Volumes, Cruise 5410, October 1954 (cont'd)

| Sta. | Position | | (1954) Date | Time (PST) | | Vol. water strained C.M. | Depth of haul in meters | Vol. per 1000 C.M. strained Total Sm.org. | |
|--------|----------|-----------|----------------|------------|------|-----------------------------------|-------------------------------|---|-----|
| | N.lat. | W.long. | | Start | End | | | cc. | cc. |
| 130.40 | 26°10.8' | 114°03.7' | X-17 | 1741 | 1755 | 491 | 0-128 | 220 | 220 |
| 130.45 | 25°59.0' | 114°27.0' | X-17 | 2016 | 2031 | 463 | 0-140 | 311 | 252 |
| 130.50 | 25°49.2' | 114°46.5' | X-17 | 2236 | 2250 | 464 | 0-143 | 306 | 168 |
| 130.55 | 25°40.5' | 115°07.0' | X-18 | 0056 | 0111 | 444 | 0-149 | 311 | 311 |
| 130.60 | 25°30.5' | 115°27.5' | X-18 | 0504 | 0519 | 550 | 0-104 | 351 | 315 |
| 133.25 | 26°05.0' | 112°47.5' | X-17 | 0758 | 0805 | 297 | 0-54 | 78 | 78 |
| 133.30 | 25°49.5' | 113°07.0' | X-17 | 0546 | 0601 | 582 | 0-108 | 76 | 76 |
| 137.23 | 25°35.0' | 112°19.0' | X-16 | 2208 | 2216 | 389 | 0-38 | 105 | 105 |
| 137.30 | 25°20.5' | 112°45.0' | X-17 | 0056 | 0111 | 480 | 0-140 | 146 | 146 |

Plankton Volumes, Cruise 5412, December 1954

| | | | | | | | | | |
|-------|----------|-----------|-------|------|------|-----|-------|------|-----|
| 80.51 | 34°27.5' | 120°33.0' | XII-2 | 1203 | 1210 | 255 | 0-68 | 47 | 47 |
| 80.55 | 34°21.5' | 120°50.0' | XII-2 | 1506 | 1521 | 419 | 0-144 | 67 | 67 |
| 80.60 | 34°09.0' | 121°09.0' | XII-2 | 1751 | 1806 | 452 | 0-142 | 111 | 111 |
| 80.70 | 33°50.5' | 121°51.0' | XII-2 | 0011 | 0026 | 496 | 0-129 | 103 | 103 |
| 80.80 | 33°33.0' | 122°31.0' | XII-3 | 0441 | 0456 | 498 | 0-139 | 205 | 205 |
| 80.90 | 33°14.0' | 123°12.0' | XII-3 | 1026 | 1041 | 457 | 0-144 | 39 | 39 |
| 82.47 | 34°16.0' | 119°58.0' | XII-4 | 1056 | 1111 | 449 | 0-145 | 82 | 82 |
| 83.40 | 34°14.0' | 119°21.5' | XII-4 | 1619 | 1622 | 88 | 0-13 | 68 | 68 |
| 83.43 | 34°08.5' | 119°33.5' | XII-4 | 1437 | 1449 | 403 | 0-109 | 94 | 94 |
| 83.48 | 33°58.0' | 119°54.5' | XII-4 | 0741 | 0756 | 412 | 0-147 | 75 | 75 |
| 83.51 | 33°51.5' | 120°08.0' | XII-4 | 0531 | 0546 | 453 | 0-144 | 71 | 71 |
| 83.55 | 33°43.5' | 120°24.0' | XII-4 | 0231 | 0245 | 464 | 0-138 | 241 | 185 |
| 83.60 | 33°34.0' | 120°44.5' | XII-3 | 0001 | 0016 | 472 | 0-137 | 210 | 210 |
| 85.39 | 33°59.0' | 119°04.0' | XII-4 | 2021 | 2036 | 480 | 0-136 | 92 | 92 |
| 85.40 | 33°57.5' | 119°10.5' | XII-4 | 2121 | 2136 | 470 | 0-137 | 96 | 96 |
| 85.45 | 33°47.0' | 119°31.5' | XII-4 | 0046 | 0101 | 451 | 0-138 | 120 | 120 |
| 85.50 | 33°37.0' | 119°52.0' | XII-5 | 0331 | 0346 | 439 | 0-139 | 109 | 109 |
| 85.55 | 33°26.5' | 120°13.5' | XII-5 | 0716 | 0731 | 456 | 0-135 | 59 | 59 |
| 85.60 | 33°17.0' | 120°33.5' | XII-5 | 0941 | 0956 | 466 | 0-132 | 105 | 105 |
| 87.35 | 33°51.0' | 118°38.5' | XII-6 | 0406 | 0421 | 477 | 0-135 | 92 | 92 |
| 87.40 | 33°40.0' | 118°58.5' | XII-6 | 0106 | 0121 | 450 | 0-141 | 96 | 96 |
| 87.45 | 33°30.0' | 119°18.5' | XII-5 | 2116 | 2131 | 458 | 0-142 | 98 | 98 |
| 87.50 | 33°20.0' | 119°39.5' | XII-5 | 1848 | 1855 | 236 | 0-61 | 115 | 115 |
| 87.55 | 33°10.0' | 120°00.5' | XII-5 | 1521 | 1536 | 451 | 0-143 | 2014 | 106 |
| 87.60 | 33°00.0' | 120°21.5' | XII-5 | 1251 | 1306 | 416 | 0-142 | 31 | 31 |
| 90.28 | 33°28.5' | 117°46.7' | XII-6 | 1026 | 1041 | 494 | 0-127 | 30 | 30 |
| 90.30 | 33°24.5' | 117°55.0' | XII-6 | 1146 | 1201 | 463 | 0-136 | 56 | 56 |
| 90.37 | 33°11.0' | 118°23.5' | XII-7 | 0416 | 0431 | 442 | 0-145 | 111 | 111 |
| 90.45 | 32°55.0' | 118°56.0' | XII-7 | 0811 | 0826 | 418 | 0-147 | 105 | 105 |
| 90.50 | 32°45.5' | 119°16.5' | XII-7 | 1201 | 1216 | 419 | 0-140 | 79 | 79 |
| 90.60 | 32°25.0' | 119°56.0' | XII-7 | 1735 | 1751 | 466 | 0-134 | 135 | 135 |
| 90.70 | 32°05.0' | 120°38.0' | XII-7 | 0036 | 0051 | 460 | 0-146 | 161 | 161 |
| 93.27 | 32°56.0' | 117°19.0' | XII-9 | 0046 | 0101 | 453 | 0-139 | 77 | 77 |

Plankton Volumes, Cruise 5412, December 1954 (cont'd)

| Sta. | Position | | (1954) Date | Time (PST) | | Vol. | Depth of haul in meters | Vol. per 1000 | |
|--------|-----------------------------------|-----------|----------------|------------|------|---------------------------|-------------------------------|---------------|----------------|
| | N.lat. | W.long. | | Start | End | water strained C.M. | | Total C.M. | Sm.org. cc. |
| 93.30 | 32°49.5' | 117°31.0' | XII-8 | 2146 | 2201 | 482 | 0-139 | 52 | 52 |
| 93.40 | 32°30.0' | 118°12.5' | XII-8 | 1556 | 1611 | 442 | 0-141 | 68 | 68 |
| 93.50 | 32°08.0' | 118°55.0' | XII-8 | 1111 | 1126 | 437 | 0-142 | 55 | 55 |
| 97.30 | 32°15.0' | 117°08.5' | XII-9 | 0542 | 0549 | 211 | 0-49 | 109 | 109 |
| 97.32 | 32°11.5' | 117°16.0' | XII-9 | 0701 | 0716 | 429 | 0-136 | 51 | 51 |
| 97.40 | 31°55.5' | 117°50.0' | XII-9 | 1126 | 1141 | 430 | 0-134 | 51 | 51 |
| 97.50 | 31°34.5' | 118°29.0' | XII-9 | 1606 | 1621 | 413 | 0-146 | 73 | 73 |
| 100.29 | 31°42.0' | 116°43.5' | XII-11 | 2017 | 2027 | 301 | 0-89 | 299 | 299 |
| 100.30 | 31°40.5' | 116°46.5' | XII-11 | 1901 | 1916 | 455 | 0-135 | 110 | 110 |
| 100.40 | 31°23.5' | 117°26.0' | XII-11 | 1416 | 1431 | 419 | 0-143 | 57 | 57 |
| 100.50 | Occupied. Sample not quantitative | | | | | | | | |
| 100.60 | 30°42.5' | 118°44.5' | XII-11 | 0316 | 0331 | 432 | 0-145 | 62 | 62 |
| 100.70 | 30°20.5' | 119°27.0' | XII-10 | 2201 | 2216 | 391 | 0-145 | 51 | 51 |
| 100.80 | Occupied. Sample not quantitative | | | | | | | | |
| 100.90 | 29°41.0' | 120°47.0' | XII-10 | 1131 | 1146 | 400 | 0-148 | 83 | 83 |
| 103.30 | 31°06.0' | 116°25.0' | XII-12 | 0928 | 0935 | 189 | 0-54 | 159 | 159 |
| 103.35 | 30°55.0' | 116°45.0' | XII-12 | 0626 | 0641 | 440 | 0-136 | 43 | 43 |
| 103.40 | 30°45.0' | 117°05.5' | XII-12 | 0351 | 0406 | 445 | 0-137 | 38 | 38 |
| 107.32 | 30°26.0' | 116°11.0' | XII-12 | 1406 | 1421 | 454 | 0-135 | 269 | 256 |
| 107.35 | 30°22.0' | 116°19.0' | XII-12 | 1626 | 1641 | 420 | 0-142 | 52 | 52 |
| 107.40 | 30°10.0' | 116°43.0' | XII-12 | 1926 | 1941 | 419 | 0-142 | 95 | 43 |
| 110.33 | 29°50.0' | 115°52.4' | XII-13 | 2058 | 2106 | 259 | 0-74 | 143 | 143 |
| 110.35 | 29°46.0' | 116°00.0' | XII-13 | 1926 | 1941 | 487 | 0-136 | 131 | 131 |
| 110.40 | 29°36.0' | 116°19.5' | XII-13 | 1636 | 1651 | 444 | 0-141 | 56 | 56 |
| 110.50 | 29°17.5' | 117°00.0' | XII-13 | 1051 | 1106 | 441 | 0-138 | 54 | 54 |
| 110.60 | 28°56.5' | 117°39.0' | XII-13 | 0611 | 0626 | 429 | 0-144 | 131 | 131 |
| 113.30 | 29°23.0' | 115°19.0' | XII-16 | 1458 | 1505 | 211 | 0-50 | 265 | 265 |
| 113.35 | 29°07.0' | 115°33.0' | XII-16 | 1106 | 1121 | 517 | 0-122 | 327 | 327 |
| 113.40 | 28°56.0' | 115°55.0' | XII-16 | 0741 | 0755 | 520 | 0-120 | 108 | 108 |
| 113.50 | 28°39.0' | 116°36.0' | XII-16 | 0121 | 0136 | 412 | 0-142 | 352 | 311 |
| 113.60 | 28°24.0' | 117°15.0' | XII-15 | 1906 | 1921 | 462 | 0-136 | 100 | 78 |
| 117.26 | 28°56.0' | 114°40.0' | XII-14 | 1613 | 1621 | 257 | 0-62 | 23 | 23 |
| 117.30 | 28°48.0' | 114°56.0' | XII-14 | 1852 | 1902 | 318 | 0-88 | 674 | 674 |
| 117.35 | 28°39.0' | 115°16.0' | XII-14 | 2226 | 2240 | 516 | 0-122 | 182 | 81 |
| 117.40 | 28°29.0' | 115°37.0' | XII-15 | 0141 | 0156 | 440 | 0-142 | 175 | 120 |
| 117.50 | 28°09.0' | 116°16.0' | XII-15 | 0826 | 0841 | 520 | 0-120 | 478 | 478 |
| 117.60 | 27°54.0' | 116°51.0' | XII-15 | 1336 | 1351 | 452 | 0-138 | 124 | 124 |
| 120.25 | 28°22.0' | 114°17.0' | XII-14 | 1045 | 1053 | 301 | 0-56 | 20 | 20 |
| 120.30 | 28°15.0' | 114°28.0' | XII-14 | 0843 | 0851 | 314 | 0-61 | 13 | 13 |
| 120.35 | 28°03.0' | 114°50.0' | XII-14 | 0453 | 0501 | 244 | 0-74 | 590 | 590 |
| 120.40 | 27°56.0' | 115°17.0' | XII-14 | 0058 | 0104 | 191 | 0-58 | 167 | 167 |
| 120.45 | 27°42.0' | 115°32.0' | XII-13 | 2131 | 2145 | 500 | 0-121 | 88 | 68 |
| 120.50 | 27°32.0' | 115°57.0' | XII-13 | 1811 | 1826 | 458 | 0-134 | 70 | 70 |
| 120.60 | 27°08.0' | 116°25.0' | XII-13 | 0941 | 0956 | 544 | 0-126 | 118 | 118 |

Plankton Volumes, Cruise 5412, December 1954 (cont'd)

| Sta. | Position | | (1954) Date | Time (PST) | | Vol. water strained C.M. | Depth of haul in meters | Vol. per 1000 C.M. strained | |
|--------|----------|-----------|----------------|------------|------|-----------------------------------|-------------------------------|--------------------------------|---------|
| | N. lat. | W. long. | | Start | End | | | Total | Sm.org. |
| 120.70 | 26°49.0' | 117°08.0' | XII-13 | 0026 | 0040 | 458 | 0-135 | 96 | 96 |
| 120.80 | 26°29.0' | 117°53.0' | XII-12 | 1721 | 1735 | 437 | 0-131 | 69 | 69 |
| 120.90 | 26°17.0' | 118°24.0' | XII-12 | 1021 | 1035 | 480 | 0-133 | 46 | 46 |
| 123.37 | 27°24.0' | 114°40.0' | XII-11 | 0148 | 0155 | 221 | 0-61 | 68 | 68 |
| 123.40 | 27°18.0' | 114°53.0' | XII-11 | 0416 | 0431 | 506 | 0-121 | 75 | 75 |
| 123.45 | 27°11.0' | 115°12.0' | XII-11 | 0826 | 0840 | 444 | 0-133 | 108 | 70 |
| 123.50 | 27°03.0' | 115°32.0' | XII-11 | 1146 | 1201 | 394 | 0-138 | 76 | 76 |
| 123.55 | 26°53.0' | 115°50.0' | XII-11 | 1501 | 1516 | 407 | 0-145 | 98 | 98 |
| 127.34 | 26°56.0' | 114°09.0' | XII-10 | 1923 | 1931 | 306 | 0-71 | 85 | 85 |
| 127.40 | 26°45.0' | 114°30.0' | XII-10 | 1536 | 1551 | 477 | 0-141 | 96 | 96 |
| 127.45 | 26°30.0' | 114°48.0' | XII-10 | 1206 | 1220 | 488 | 0-134 | 78 | 78 |
| 127.50 | 26°23.0' | 115°03.0' | XII-10 | 0846 | 0901 | 471 | 0-130 | 64 | 64 |
| 127.55 | 26°12.0' | 115°22.0' | XII-10 | 0516 | 0530 | 486 | 0-132 | 66 | 66 |
| 130.30 | 26°31.0' | 113°26.0' | XII-9 | 0015 | 0022 | 272 | 0-67 | 331 | 331 |
| 130.35 | 26°21.0' | 113°48.0' | XII-9 | 0411 | 0426 | 477 | 0-138 | 126 | 126 |
| 130.40 | 26°11.0' | 114°08.0' | XII-9 | 0726 | 0740 | 455 | 0-138 | 42 | 42 |
| 130.50 | 25°48.0' | 114°44.0' | XII-9 | 1531 | 1546 | 446 | 0-136 | 81 | 81 |
| 130.60 | 25°29.0' | 115°23.0' | XII-9 | 2121 | 2135 | 511 | 0-125 | 100 | 78 |
| 133.25 | 26°03.0' | 112°48.0' | XII-8 | 1443 | 1451 | 300 | 0-70 | 140 | 140 |
| 133.30 | 25°54.0' | 113°07.0' | XII-8 | 1806 | 1821 | 490 | 0-135 | 82 | 65 |
| 137.23 | 25°37.0' | 112°20.0' | XII-8 | 0853 | 0901 | 313 | 0-57 | 105 | 105 |
| 137.30 | 25°24.0' | 112°41.0' | XII-8 | 0511 | 0526 | 437 | 0-139 | 78 | 78 |
| 140.30 | 24°47.0' | 112°25.0' | XII-7 | 2328 | 2337 | 363 | 0-78 | 187 | 132 |
| 140.35 | 24°37.0' | 112°43.0' | XII-7 | 1931 | 1945 | 483 | 0-131 | 46 | 46 |
| 140.40 | 24°26.0' | 113°02.0' | XII-7 | 1616 | 1631 | 472 | 0-135 | 28 | 28 |
| 143.26 | 24°18.0' | 111°48.0' | XII-7 | 0348 | 0357 | 352 | 0-67 | 51 | 51 |
| 143.30 | 24°14.0' | 112°04.0' | XII-7 | 0611 | 0626 | 475 | 0-136 | 50 | 50 |
| 143.35 | 24°00.0' | 112°25.0' | XII-7 | 0956 | 1011 | 477 | 0-126 | 42 | 42 |
| 147.20 | 23°58.0' | 111°01.0' | XII-6 | 2113 | 2122 | 357 | 0-74 | 78 | 78 |
| 147.25 | 23°48.0' | 111°22.0' | XII-6 | 1806 | 1820 | 445 | 0-131 | 85 | 54 |
| 147.30 | 23°35.0' | 111°47.0' | XII-6 | 1346 | 1401 | 490 | 0-130 | 37 | 37 |
| 150.19 | 22°24.0' | 110°39.0' | XII-5 | 2316 | 2331 | 540 | 0-126 | 89 | 89 |
| 150.25 | 23°14.0' | 111°02.0' | XII-6 | 0316 | 0331 | 548 | 0-129 | 55 | 55 |
| 150.30 | 23°02.0' | 111°18.0' | XII-6 | 0746 | 0801 | 502 | 0-129 | 16 | 16 |
| 153.16 | 22°54.0' | 110°06.0' | XII-5 | 1626 | 1641 | 494 | 0-143 | 12 | 12 |
| 153.20 | 22°49.0' | 110°17.0' | XII-5 | 1441 | 1456 | 482 | 0-135 | 27 | 27 |
| 153.30 | 22°25.0' | 111°02.0' | XII-5 | 0701 | 0716 | 497 | 0-140 | 537 | 386 |
| 157.10 | 22°35.0' | 109°19.0' | XII-4 | 1151 | 1205 | 568 | 0-119 | 39 | 39 |
| 157.20 | 22°15.0' | 110°04.0' | XII-4 | 1831 | 1846 | 481 | 0-136 | 83 | 66 |
| 157.30 | 21°52.0' | 110°38.0' | XII-5 | 0051 | 0106 | 500 | 0-136 | 68 | 68 |

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