

ZOOPLANKTON VOLUMES OFF THE PACIFIC COAST, 1952

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SPECIAL SCIENTIFIC REPORT: FISHERIES No. 100

UNITED STATES DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE

Explanatory Note

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Washington, D.C.
May, 1953

United States Department of the Interior, Douglas McKay, Secretary
Fish and Wildlife Service, Albert M. Day, Director

ZOOPLANKTON VOLUMES OFF THE PACIFIC COAST, 1952

Prepared by

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

Special Scientific Report: Fisheries No. 100

Zooplankton Volumes off the Pacific Coast, 1952

This report contains a record of the volumes of zooplankton taken on the survey cruises of the California Cooperative Sardine Research Program during 1952, along with information on the plankton hauls. The survey cruises, made monthly except during December, were numbered 33 through 43. Participating vessels included the CREST, E.W. SCRIPPS, HORIZON, PAOLINA T. and S.F. BAIRD of the Scripps Institution of Oceanography, the YELLOWFIN of the California Department of Fish and Game, and the BLACK DOUGLAS of the U. S. Fish and Wildlife Service. Two to four vessels took part in each cruise.

The plankton samples are used in studying the distribution and abundance of the eggs and larvae of the pilchard or sardine (Sardinops caerulea), and also in studying the productivity of pilchard spawning areas. The former problem is being investigated by the U. S. Fish and Wildlife Service, the latter by the Scripps Institution of Oceanography. Both investigations are directed toward determining the factors affecting the success or failure (good or poor survival) of year classes of pilchard.

The plankton hauls were made obliquely from approximately 140 meters deep (200 meters of wire out at greatest depth) to the surface. The hauls were made at a vessel speed of 1.5 to 2 knots. In taking a haul, the net was lowered to a depth of approximately 140 meters in about 4 minutes and then brought upward at the rate of 14 meters per minute (20 meters of wire retrieved).

The same type of plankton net has been employed since 1949. The net measures 1.0 meter in diameter at the mouth, by approximately 5 meters in length. The anterior section of the net, approximately a meter in length, is cylindrical; the longer posterior section conical. A cod-end bag is attached to the end of the net by a bronze coupling device. The body of the net is constructed of No. 30xxx grit gauze (a rugged grade of silk bolting cloth), the posterior 40 cms. of the cone and the cod-end bag of No. 56xxx grit gauze.

Each plankton net is provided with an Atlas-type current meter, held rigidly in the center of the mouth opening. The current meter consists of a rotator and a revolution counter housed in a cylindrical casing. Current meters were calibrated before and after each cruise on which they were used.

The volume of water strained in making a haul was determined from the formulation:

$$V = R \cdot a \cdot p$$

in which

- a - the cross-sectional area of the mouth of the net in square meters.
- p - length of the column of water in meters needed to effect one revolution of the current meter (determined from the appropriate current-meter calibration graph).
- R - total number of revolutions registered by the current meter during a haul.
- V - total volume of water strained in cubic meters.

The values for volume of water strained (in cubic meters), given in the following tables, were determined from current-meter readings, except for the few enclosed by parentheses, for which reliable current-meter data were lacking. For such hauls an approximate value of R was obtained which represented the average performance of the current meter at the speed and for the length of time of the tow.

The plankton volume of a sample was determined by displacement. The plankton was separated from its preserving liquor, allowed to drain, and then placed into a graduate containing a measured quantity of water. The increase in volume was assumed to be due entirely to the drained but still "wet" plankton. For comparability, the plankton volumes are expressed as the "wet volume" in cc. per 1000 cubic meters of water strained. The volumes are given under two headings: 1) total volume, and 2) the volume of smaller organisms remaining when jelly masses, fish, and larger mollusca, squid, crustacea, and the like were removed.

The following tables are designed to serve a twofold purpose: (1) to record the plankton volumes obtained on the survey cruises, and (2) to record pertinent data for all hauls made during 1952, including the location, date and time of collection, the volume of water strained (in cubic meters), and the estimated depth of the haul (in meters). They differ from the tables included in "Zooplankton Volumes off the Pacific Coast, 1951" (Special Scientific Report: Fisheries No. 73, 37 pp., May 1952) in two respects: (1) a column has been added giving the estimated depth of each haul, and (2) the unadjusted displacement volumes of the plankton have been omitted. However, the latter values may be computed from the data given in the tables.

These investigations are part of the California Cooperative Sardine Research Program, a program sponsored by the Marine Research Committee and carried out cooperatively 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 U. S. Fish and Wildlife Service.

Plankton Volumes, Cruise 33, January 1952

| Sta. | Position | | Date (1952) | 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. | |
| 80.51 | 34°26.5' | 120°32.5' | I-26 | 0404 | 0413 | 333 | 0-46 | 177 | 177 | |
| 80.55 | 34°19' | 120°48.3' | I-26 | 0626 | 0641 | 522 | 0-134 | 424 | 424 | |
| 80.60 | 34°09.7' | 121°09' | I-26 | 0956 | 1011 | 530 | 0-133 | 338 | 338 | |
| 80.70 | 33°49.3' | 121°50.1' | I-26 | 1632 | 1646 | 484 | 0-142 | 111 | 111 | |
| 80.80 | 33°29' | 122°33' | I-26 | 2206 | 2221 | 507 | 0-132 | 207 | 207 | |
| 80.90 | 33°08.5' | 123°13' | I-27 | 0451 | 0506 | 521 | 0-135 | 180 | 180 | |
| 80.100 | 32°47' | 123°55' | I-27 | 1056 | 1111 | 515 | 0-134 | 113 | 113 | |
| 80.110 | 32°24' | 124°39' | I-27 | 1748 | 1803 | 560 | 0-136 | 52 | 52 | |
| 85.38 | 34°01.3' | 119°03' | I-25 | 1829 | 1839 | 445 | 0-50 | 74 | 74 | |
| 85.40 | 33°56.9' | 119°10.6' | I-25 | 1611 | 1626 | 550 | 0-139 | 58 | 58 | |
| 85.50 | 33°36.5' | 119°53.6' | I-25 | 1046 | 1101 | 514 | 0-139 | 91 | 91 | |
| 85.60 | 33°17' | 120°33' | I-25 | 0451 | 0506 | 510 | 0-136 | 449 | 449 | |
| 85.70 | 32°57' | 121°14' | I-24 | 2255 | 2311 | 524 | 0-136 | 214 | 214 | |
| 90.28 | 33°28.5' | 117°46.7' | I-22 | 1511 | 1526 | 602 | 0-136 | 72 | 53 | |
| 90.30 | 33°24' | 117°55' | I-22 | 1617 | 1631 | 546 | 0-132 | 68 | 68 | |
| 90.37 | 33°11' | 118°24' | I-22 | 2041 | 2056 | 548 | 0-135 | 100 | 100 | |
| 90.45 | 32°54.5' | 118°56' | I-23 | 0255 | 0311 | 562 | 0-135 | 77 | 77 | |
| 90.53 | 32°38.5' | 119°29' | I-23 | 0811 | 0826 | 576 | 0-134 | 372 | 372 | |
| 90.60 | 32°26' | 119°57.5' | I-23 | 1231 | 1246 | 571 | 0-134 | 12 | 12 | |
| 90.70 | 32°04.5' | 120°39' | I-23 | 1851 | 1906 | 551 | 0-136 | 360 | 225 | |
| 90.80 | 31°45' | 121°19' | I-24 | 0046 | 0101 | 552 | 0-136 | 74 | 74 | |
| 90.90 | 31°25.5' | 121°58' | I-24 | 0806 | 0821 | 510 | 0-145 | 43 | 43 | |
| 93.27 | 32°56' | 117°19.5' | I-22 | 0855 | 0911 | 633 | 0-133 | 27 | 27 | |
| 93.30 | 32°50' | 117°31.5' | I-22 | 0451 | 0506 | 622 | 0-122 | 104 | 104 | |
| 93.40 | 32°30.5' | 118°07.8' | I-21 | 2315 | 2331 | 567 | 0-136 | 72 | 72 | |
| 93.50 | 32°15' | 118°55' | I-21 | 1616 | 1631 | 562 | 0-131 | 45 | 45 | |
| 93.60 | 31°47' | 119°37' | I-21 | 0854 | 0911 | 540 | 0-142 | 24 | 24 | |
| 93.70 | 31°29' | 120°14' | I-21 | 0206 | 0221 | 538 | 0-138 | 54 | 54 | |
| 97.30 | 32°15.4' | 117°08.8' | I-19 | 1559 | 1608 | 318 | 0-41 | 53 | 53 | |
| 97.32 | 32°11.5' | 117°17' | I-19 | 1737 | 1754 | 574 | 0-138 | 68 | 68 | |
| 97.40 | 31°55' | 117°50' | I-19 | 2326 | 2341 | 496 | 0-150 | 113 | 113 | |
| 97.50 | 31°34.8' | 118°29' | I-20 | 0550 | 0606 | 548 | 0-140 | 99 | 99 | |
| 97.60 | 31°15' | 119°13' | I-20 | 1256 | 1311 | 580 | 0-134 | 40 | 40 | |
| 97.70 | 30°55' | 119°51' | I-20 | 1926 | 1941 | 538 | 0-139 | 91 | 91 | |
| 100.29 | 31°42.2' | 116°43.4' | I-18 | 1957 | 2009 | (411) | 0-51 | 41 | 41 | |
| 100.40 | 31°19.9' | 117°23' | I-18 | 1526 | 1541 | 456 | 0-147 | 37 | 37 | |
| 100.50 | 31°01.6' | 118°04' | I-18 | 0956 | 1019 | (940) | 0-88 | 39 | 39 | |
| 100.60 | | | Occupied. No biological data taken | | | | | | | |
| 100.70 | 30°21' | 119°27' | I-17 | 2246 | 2301 | 637 | 0-101 | 108 | 108 | |
| 100.80 | 30°01' | 120°07' | I-17 | 1731 | 1747 | 676 | 0-88 | 40 | 40 | |
| 100.90 | 29°40.3' | 120°47' | I-17 | 1221 | 1236 | 630 | 0-111 | 30 | 30 | |
| 105.32 | 30°44.7' | 116°21.3' | I-16 | 0101 | 0114 | 490 | 0-55 | 29 | 29 | |
| 105.35 | 30°38.4' | 116°33.5' | I-16 | 0326 | 0342 | 583 | 0-124 | 91 | 91 | |
| 105.40 | 30°28.8' | 116°54' | I-16 | 0656 | 0711 | 518 | 0-130 | 44 | 44 | |
| 105.50 | 30°12.7' | 117°27' | I-16 | 1206 | 1221 | 480 | 0-141 | 23 | 23 | |
| 105.60 | 29°48.5' | 118°14' | I-16 | 1801 | 1816 | 495 | 0-140 | 34 | 34 | |
| 105.70 | 29°29' | 118°54' | I-16 | 2311 | 2326 | 503 | 0-134 | 107 | 82 | |
| 105.80 | 29°07.2' | 119°35' | I-17 | 0421 | 0436 | 518 | 0-125 | 62 | 62 | |

Plankton Volumes, Cruise 33, January 1952 (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. | (1952) Date | Start | End | | | cc. | cc. |
| 110.33 | 29°51' | 115°52' | I-9 | 1009 | 1017 | 274 | 0-33 | 113 | 113 |
| 110.35 | 29°47' | 116°00' | I-9 | 1256 | 1311 | 496 | 0-135 | 20 | 20 |
| 110.40 | 29°37' | 116°19.5' | I-9 | 1720 | 1735 | 484 | 0-139 | 60 | 60 |
| 110.50 | 29°17' | 116°59' | I-9 | 2326 | 2341 | 490 | 0-139 | 102 | 102 |
| 110.70 | 28°36' | 118°18' | I-10 | 2041 | 2056 | 484 | 0-136 | 109 | 52 |
| 110.80 | 28°18' | 118°54' | I-11 | 0156 | 0211 | 432 | 0-142 | 37 | 37 |
| 110.90 | 28°00' | 119°28' | I-11 | 0607 | 0621 | 440 | 0-140 | 41 | 41 |
| 115.27 | 29°12' | 114°56' | I-12 | 1609 | 1617 | 262 | 0-40 | 19 | 19 |
| 115.35 | 28°58' | 115°28' | I-12 | 1226 | 1241 | 466 | 0-136 | 43 | 43 |
| 115.40 | 28°45' | 115°47' | I-12 | 0921 | 0936 | 510 | 0-130 | 27 | 27 |
| 115.50 | 28°21' | 116°24' | I-12 | 0411 | 0426 | 455 | 0-140 | 103 | 55 |
| 115.60 | 28°05' | 117°05' | I-11 | 2251 | 2306 | 456 | 0-142 | 81 | 81 |
| 115.70 | 27°45' | 117°44' | I-11 | 1720 | 1734 | 450 | 0-136 | 60 | 60 |
| 120.25 | 28°22.5' | 114°15.5' | I-12 | 2248 | 2255 | 241 | 0-34 | 33 | 33 |
| 120.30 | 28°13' | 114°34' | I-13 | 0113 | 0124 | 340 | 0-56 | 41 | 41 |
| 120.35 | 28°03' | 114°54' | I-13 | 0344 | 0352 | 233 | 0-40 | 69 | 69 |
| 120.45 | 27°43' | 115°33' | I-13 | 0856 | 0911 | 504 | 0-131 | 99 | 99 |
| 120.50 | 27°32' | 115°52' | I-13 | 1206 | 1221 | 467 | 0-147 | 75 | 75 |
| 120.60 | 27°12' | 116°31' | I-13 | 1711 | 1726 | 425 | 0-152 | 33 | 33 |
| 120.70 | 26°52' | 117°10' | I-13 | 2306 | 2321 | 460 | 0-146 | 98 | 98 |
| 120.80 | 26°32' | 117°49' | I-14 | 0422 | 0436 | 448 | 0-141 | 116 | 116 |
| 120.90 | 26°10' | 118°35' | I-14 | 0956 | 1011 | 434 | 0-154 | 67 | 67 |
| 123.37 | 27°23' | 114°42' | I-15 | 2258 | 2308 | 317 | 0-48 | 38 | 38 |
| 123.40 | 27°22.5' | 114°48' | I-15 | 1128 | 1141 | 383 | 0-74 | 78 | 78 |
| 123.50 | 27°03' | 115°34' | I-15 | 0607 | 0621 | 469 | 0-145 | 32 | 32 |
| 123.60 | 26°38' | 116°09' | I-15 | 0001 | 0016 | 486 | 0-145 | 117 | 117 |
| 127.34 | 26°55.5' | 114°05' | I-16 | 0349 | 0356 | 241 | 0-37 | 33 | 33 |
| 127.40 | 26°46' | 114°29' | I-16 | 0811 | 0826 | 493 | 0-148 | 67 | 67 |
| 127.50 | 26°21' | 115°07' | I-16 | 1321 | 1336 | 471 | 0-139 | 49 | 49 |
| 127.60 | 26°00' | 115°44' | I-16 | 1927 | 1941 | 447 | 0-138 | 65 | 65 |
| 130.30 | 26°15' | 113°23' | I-18 | 1324 | 1331 | 213 | 0-36 | 56 | 56 |
| 130.35 | 26°10' | 113°34' | I-18 | 1123 | 1136 | 424 | 0-68 | 78 | 78 |
| 130.40 | 26°10.5' | 114°07' | I-18 | 0722 | 0736 | 463 | 0-137 | 164 | 164 |
| 130.50 | 25°49' | 114°46' | I-17 | 2331 | 2346 | 483 | 0-147 | 97 | 97 |
| 130.60 | 25°29' | 115°24' | I-17 | 1811 | 1826 | 476 | 0-143 | 103 | 103 |
| 130.70 | 24°54' | 116°11' | I-17 | 1111 | 1126 | 488 | 0-142 | 68 | 68 |
| 130.80 | 24°35' | 116°46' | I-17 | 0547 | 0601 | 444 | 0-142 | 56 | 56 |
| 133.25 | 25°59' | 112°55' | I-18 | 1628 | 1641 | 391 | 0-70 | 187 | 187 |
| 133.30 | 25°55' | 113°03' | I-18 | 1853 | 1906 | 392 | 0-73 | 151 | 151 |
| 133.40 | 25°35' | 113°45' | I-19 | 0045 | 0100 | 438 | 0-148 | 187 | 187 |
| 133.50 | 25°19.5' | 114°24' | I-19 | 0617 | 0631 | 447 | 0-145 | 150 | 150 |
| 133.60 | 24°51' | 115°00' | I-19 | 1136 | 1151 | 450 | 0-153 | 85 | 85 |
| 137.23 | 25°36' | 112°19' | I-20 | 1203 | 1214 | 356 | 0-56 | 56 | 56 |
| 137.30 | 25°23' | 112°45' | I-20 | 0913 | 0926 | 350 | 0-80 | 123 | 123 |
| 137.40 | 25°00' | 113°23.5' | I-20 | 0234 | 0249 | 444 | 0-147 | 146 | 146 |
| 137.50 | 24°41' | 114°01.5' | I-19 | 2216 | 2231 | 507 | 0-145 | 290 | 260 |
| 137.60 | 24°20' | 114°40' | I-19 | 0437 | 0451 | 444 | 0-143 | 38 | 38 |

Plankton Volumes, Cruise 34, February 1952

| Sta. | Position | | (1952) 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. |
| 80.51 | 34°26.8' | 120°33.3' | II-20 | 0453 | 0506 | 480 | 0-62 | 3999 | 3999 |
| 80.55 | 34°19.3' | 120°48.5' | II-20 | 0736 | 0751 | 534 | 0-132 | 2995 | 2995 |
| 80.60 | 34°09.5' | 121°09.9' | II-20 | 1116 | 1131 | 502 | 0-140 | 239 | 239 |
| 80.70 | 33°50' | 121°50.7' | II-20 | 1646 | 1701 | 518 | 0-132 | 181 | 181 |
| 80.80 | 33°30.6' | 122°32.5' | II-20 | 2226 | 2241 | 488 | 0-141 | 268 | 268 |
| 80.90 | 33°09' | 123°13' | II-21 | 0531 | 0546 | 572 | 0-129 | 218 | 218 |
| 80.100 | 32°53.1' | 123°54.1' | II-21 | 1036 | 1051 | 497 | 0-138 | 66 | 66 |
| 85.38 | 34°02' | 119°02' | II-19 | 2103 | 2116 | 441 | 0-67 | 147 | 147 |
| 85.40 | 33°57' | 119°10' | II-19 | 1931 | 1946 | 544 | 0-135 | 105 | 105 |
| 85.50 | 33°37' | 119°52.5' | II-19 | 1231 | 1246 | 625 | 0-117 | 122 | 122 |
| 85.60 | 33°19' | 120°32' | II-19 | 0711 | 0726 | 450 | 0-141 | 639 | 639 |
| 85.70 | 32°58' | 121°14' | II-19 | 0206 | 0221 | 535 | 0-121 | 333 | 333 |
| 90.28 | 33°28.5' | 117°46.5' | II-16 | 1831 | 1846 | 506 | 0-141 | 73 | 73 |
| 90.30 | 33°24.4' | 117°56' | II-16 | 2051 | 2106 | 538 | 0-139 | 76 | 76 |
| 90.37 | 33°11' | 118°23.5' | II-17 | 0116 | 0131 | 484 | 0-139 | 83 | 83 |
| 90.45 | 32°54.5' | 118°56.5' | II-17 | 0715 | 0731 | 514 | 0-138 | 45 | 45 |
| 90.53 | 32°39.7' | 119°29' | II-17 | 1421 | 1436 | 467 | 0-140 | 75 | 75 |
| 90.60 | 32°25' | 119°56' | II-17 | 2006 | 2021 | 526 | 0-131 | 133 | 133 |
| 90.70 | 32°04.5' | 120°39' | II-18 | 0235 | 0251 | 506 | 0-142 | 63 | 63 |
| 90.80 | 31°45' | 121°17' | II-18 | 0911 | 0926 | 451 | 0-140 | 69 | 69 |
| 90.90 | 31°25' | 121°58.5' | II-18 | 1506 | 1521 | 516 | 0-137 | 23 | 23 |
| 93.27 | 32°56' | 117°19' | II-11 | 1238 | 1251 | 455 | 0-63 | 11 | 11 |
| 93.30 | 32°52.6' | 117°34.3' | II-11 | 1021 | 1036 | 596 | 0-124 | 64 | 32 |
| 93.40 | 32°30' | 118°12.2' | II-11 | 0556 | 0611 | 530 | 0-128 | 60 | 60 |
| 93.50 | 32°10' | 118°52.8' | II-11 | 0031 | 0046 | 488 | 0-141 | 164 | 164 |
| 93.60 | 31°48.3' | 119°35' | II-10 | 1846 | 1901 | 502 | 0-137 | 183 | 183 |
| 93.70 | 31°28' | 120°15' | II-10 | 1321 | 1336 | 447 | 0-149 | 116 | 116 |
| 97.30 | 32°15.2' | 117°08.5' | II-9 | 0859 | 0907 | 326 | 0-35 | 40 | 40 |
| 97.32 | 32°11.5' | 117°17.9' | II-9 | 1146 | 1201 | 522 | 0-137 | 130 | 38 |
| 97.40 | 31°58' | 117°50.5' | II-9 | 1541 | 1556 | 490 | 0-144 | 987 | 987 |
| 97.50 | 31°35' | 118°30.5' | II-9 | 2146 | 2201 | 464 | 0-147 | 93 | 93 |
| 97.60 | 31°15' | 119°08' | II-10 | 0351 | 0406 | 590 | 0-111 | 113 | 113 |
| 97.70 | 30°56.2' | 119°50.5' | II-10 | 0856 | 0911 | 477 | 0-137 | 63 | 63 |
| 100.29 | | | Occupied. No biological data taken. | | | | | | |
| 100.30 | 31°40.9' | 116°46' | II-9 | 0441 | 0456 | 542 | 0-124 | 102 | 102 |
| 100.40 | 31°20.6' | 117°24' | II-8 | 2221 | 2236 | 505 | 0-137 | 123 | 73 |
| 100.50 | 30°56.1' | 118°04.1' | II-8 | 1646 | 1701 | 527 | 0-132 | 30 | 30 |
| 100.60 | 30°45' | 118°49' | II-8 | 1106 | 1121 | 544 | 0-131 | 46 | 46 |
| 100.70 | 30°12.1' | 119°13' | II-8 | 0706 | 0721 | 505 | 0-143 | 38 | 38 |
| 100.80 | 29°51.5' | 119°52.8' | II-8 | 0021 | 0036 | 495 | 0-139 | 67 | 67 |
| 100.90 | 29°30' | 120°33.1' | II-7 | 1846 | 1901 | 554 | 0-131 | 72 | 72 |

Plankton Volumes, Cruise 34, February 1952 (cont'd)

| Sta. | Position | | Date (1952) | 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. |
| 105.32 | 30°43.5' | 116°20' | II-6 | 0428 | 0442 | 482 | 0-68 | 31 | 31 |
| 105.35 | 30°38.2' | 116°33' | II-6 | 0656 | 0711 | 505 | 0-139 | 61 | 61 |
| 105.40 | 30°30' | 116°54.1' | II-6 | 1116 | 1131 | 496 | 0-142 | 50 | 50 |
| 105.50 | 30°06.5' | 117°32' | II-6 | 1706 | 1721 | 535 | 0-130 | 19 | 19 |
| 105.60 | 29°48' | 118°14.5' | II-6 | 2251 | 2306 | 469 | 0-144 | 53 | 53 |
| 105.70 | 29°26.3' | 119°07' | II-7 | 0436 | 0452 | 512 | 0-139 | 70 | 70 |
| 105.80 | 29°05' | 119°37' | II-7 | 0956 | 1011 | 463 | 0-141 | 30 | 30 |
| 110.33 | 29°51' | 115°53' | II-6 | 1138 | 1151 | 467 | 0-64 | 47 | 47 |
| 110.35 | 29°48.1' | 115°58.9' | II-6 | 1416 | 1431 | 529 | 0-136 | 38 | 38 |
| 110.40 | 29°36.5' | 116°20' | II-6 | 1746 | 1801 | 517 | 0-131 | 39 | 39 |
| 110.50 | 29°16' | 116°59' | II-6 | 2317 | 2331 | 457 | 0-140 | 72 | 72 |
| 110.60 | 28°55.7' | 117°40' | II-7 | 0451 | 0506 | 495 | 0-135 | 71 | 71 |
| 110.70 | 28°36.5' | 118°18' | II-7 | 1007 | 1021 | 453 | 0-138 | 27 | 27 |
| 110.80 | 28°17' | 118°56' | II-7 | 1516 | 1531 | 498 | 0-135 | 34 | 34 |
| 110.90 | 27°56.5' | 119°36' | II-7 | 2107 | 2121 | 448 | 0-142 | 58 | 58 |
| 113.30 | 29°22.5' | 115°17.5' | II-9 | 0733 | 0740 | 199 | 0-29 | 91 | 91 |
| 113.35 | 29°12' | 115°39' | II-9 | 0403 | 0418 | 468 | 0-139 | 66 | 66 |
| 113.40 | 29°05' | 115°59.5' | II-9 | 0036 | 0051 | 467 | 0-140 | 79 | 79 |
| 113.50 | 28°43.1' | 116°38' | II-8 | 1921 | 1936 | 474 | 0-140 | 55 | 55 |
| 113.60 | 28°23' | 117°16.6' | II-8 | 1331 | 1346 | 498 | 0-140 | 32 | 32 |
| 113.70 | 28°05.8' | 117°50.9' | II-8 | 0857 | 0911 | 486 | 0-133 | 39 | 39 |
| 117.26 | 28°56' | 114°41' | II-9 | 1259 | 1306 | 227 | 0-35 | 22 | 22 |
| 117.30 | 28°48' | 114°56.5' | II-9 | 1444 | 1453 | 307 | 0-44 | 33 | 33 |
| 117.35 | 28°38' | 115°16' | II-9 | 1846 | 1901 | 505 | 0-129 | 46 | 46 |
| 117.40 | 28°28' | 115°35.5' | II-9 | 2226 | 2241 | 437 | 0-139 | 64 | 64 |
| 117.50 | 28°08' | 116°15' | II-10 | 0616 | 0631 | 477 | 0-141 | 55 | 55 |
| 117.60 | 27°46.3' | 116°56.5' | II-10 | 1137 | 1151 | 493 | 0-141 | 35 | 35 |
| 117.70 | 27°24' | 117°32' | II-10 | 1646 | 1701 | 486 | 0-138 | 72 | 72 |
| 120.25 | 28°23' | 114°14' | II-12 | 2104 | 2111 | 224 | 0-34 | 36 | 36 |
| 120.30 | 28°13.5' | 114°34' | II-12 | 1748 | 1759 | 311 | 0-56 | 61 | 61 |
| 120.35 | 28°02.5' | 114°55' | II-12 | 1418 | 1428 | 255 | 0-54 | 20 | 20 |
| 120.45 | 27°43' | 115°33' | II-12 | 0852 | 0906 | 422 | 0-144 | 64 | 64 |
| 120.50 | 27°30.8' | 115°52.7' | II-12 | 0356 | 0411 | 493 | 0-144 | 69 | 69 |
| 120.60 | 27°13' | 116°32' | II-11 | 2154 | 2208 | 520 | 0-134 | 56 | 56 |
| 120.70 | 26°52' | 117°10' | II-11 | 1551 | 1606 | 488 | 0-143 | 72 | 72 |
| 120.80 | 26°35' | 117°50' | II-11 | 0957 | 1011 | 481 | 0-141 | 64 | 64 |
| 120.90 | 26°14' | 118°31' | II-11 | 0401 | 0416 | 489 | 0-138 | 55 | 55 |

Plankton Volumes, Cruise 34, February 1952 (cont'd)

| Sta. | Position | | Time (PST) | | Vol. water strained | Depth of haul in meters | Vol. per 1000 | | |
|--------|----------|-----------|-----------------------|-------|---------------------|-------------------------|---------------|---------------|----------|
| | N. lat. | W. long. | Date | Start | | | End | C.M. strained | Sm. org. |
| 123.37 | 27°23' | 114°41' | II-14 | 0819 | 0828 | 295 | 0-52 | 37 | 37 |
| 123.40 | 27°19' | 114°51' | II-14 | 0521 | 0536 | 497 | 0-145 | 76 | 76 |
| 123.50 | 27°01' | 115°32' | II-13 | 2247 | 2301 | 422 | 0-145 | 57 | 57 |
| 123.60 | 26°44' | 116°05' | II-13 | 1701 | 1716 | 496 | 0-131 | 28 | 28 |
| 127.34 | | | Not occupied | | | | | | |
| 127.40 | | | Not occupied | | | | | | |
| 127.50 | | | Not occupied | | | | | | |
| 127.60 | 26°00' | 115°48' | II-22 | 1751 | 1806 | 497 | 0-142 | 42 | 42 |
| 130.30 | 26°29' | 113°29' | II-20 | 2214 | 2224 | 335 | 0-53 | 57 | 57 |
| 130.35 | 26°18.5' | 113°49.5' | II-21 | 1356 | 1411 | 493 | 0-142 | 49 | 49 |
| 130.40 | 26°09' | 114°07.5' | II-21 | 1717 | 1731 | 445 | 0-143 | 85 | 85 |
| 130.50 | 25°49' | 114°46' | II-21 | 2356 | 0011 | 478 | 0-140 | 132 | 132 |
| 130.60 | 25°29' | 115°24' | II-22 | 0816 | 0831 | 499 | 0-146 | 68 | 68 |
| 133.25 | 26°04.5' | 112°48' | II-20 | 1654 | 1704 | 372 | 0-56 | 83 | 83 |
| 133.30 | 25°54.5' | 113°09' | II-20 | 1312 | 1326 | 497 | 0-144 | 78 | 78 |
| 133.40 | 25°34.5' | 113°45.5' | II-20 | 0652 | 0706 | 495 | 0-141 | 141 | 141 |
| 133.50 | | | Occupied. Sample lost | | | | | | |
| 137.23 | 25°34.2' | 112°18.7' | II-18 | 1432 | 1441 | 274 | 0-70 | 55 | 55 |
| 137.30 | 25°20' | 112°45.5' | II-18 | 1811 | 1828 | 590 | 0-130 | 183 | 183 |
| 137.40 | 25°03.4' | 113°25.8' | II-19 | 0426 | 0441 | 514 | 0-132 | 175 | 175 |
| 137.50 | 24°40' | 114°02' | II-19 | 1356 | 1411 | 454 | 0-149 | 110 | 110 |
| 140.30 | 24°45.5' | 112°24' | II-16 | 0848 | 0859 | 405 | 0-100 | 62 | 62 |
| 140.35 | 24°36' | 112°43' | II-16 | 0501 | 0516 | 512 | 0-137 | 86 | 86 |
| 140.40 | 24°25.5' | 113°02' | II-16 | 0101 | 0116 | 476 | 0-144 | 105 | 105 |
| 140.50 | 24°05' | 113°39.5' | II-15 | 1841 | 1856 | 506 | 0-138 | 107 | 107 |
| 143.26 | 24°19' | 111°48' | II-15 | 0223 | 0234 | 358 | 0-58 | 154 | 154 |
| 143.30 | 24°11' | 112°03' | II-15 | 0541 | 0556 | 488 | 0-140 | 37 | 37 |
| 143.35 | 23°59' | 112°18.5' | II-15 | 0917 | 0931 | 502 | 0-136 | 26 | 26 |
| 147.20 | 23°56' | 111°03.5' | II-14 | 1928 | 1941 | 477 | 0-65 | 117 | 117 |
| 147.25 | 23°46.8' | 111°23' | II-14 | 1446 | 1512 | 345 | 0-157 | 49 | 49 |
| 147.30 | 23°34.2' | 111°44' | II-14 | 0907 | 0921 | 543 | 0-124 | 24 | 24 |
| 150.19 | 23°24.9' | 110°40.5' | II-13 | 1111 | 1126 | 564 | 0-133 | 23 | 23 |
| 150.25 | 23°11.1' | 111°03.2' | II-13 | 1431 | 1446 | 513 | 0-139 | 164 | 164 |
| 150.30 | 23°02' | 111°20' | II-13 | 1811 | 1826 | 545 | 0-135 | 48 | 48 |
| 150.40 | 22°42' | 111°57.5' | II-14 | 0011 | 0026 | 478 | 0-143 | 52 | 52 |

Plankton Volumes, Cruise 35, March 1952

| Sta. | Position | | Time (PST) | | Vol. water strained | Depth of haul in meters | Vol. per 1000 C.M. strained | | |
|--------|------------------------------------|-----------|-------------|-------|---------------------|-------------------------|-----------------------------|-----------|--------------|
| | N. lat. | W. long. | Date (1952) | Start | | | End | Total cc. | Sm. org. cc. |
| 80.51 | 34°26.1' | 120°33.5' | III-5 | 1137 | 1148 | 312 | 0-58 | 980 | 980 |
| 80.55 | 34°18.7' | 120°48' | III-5 | 1341 | 1356 | 544 | 0-137 | 861 | 780 |
| 80.60 | 34°09' | 121°09' | III-5 | 1854 | 1911 | 578 | 0-122 | 304 | 304 |
| 80.70 | 33°46.2' | 121°50' | III-6 | 0111 | 0127 | 556 | 0-136 | 331 | 331 |
| 80.80 | 33°25' | 122°33.5' | III-6 | 0706 | 0721 | 530 | 0-142 | 294 | 294 |
| 80.90 | Occupied. No biological data taken | | | | | | | | |
| 80.100 | Occupied. No biological data taken | | | | | | | | |
| 85.38 | 34°01.1' | 118°57.8' | III-8 | 0231 | 0246 | 618 | 0-99 | 165 | 165 |
| 85.40 | 33°57.6' | 119°11' | III-8 | 0046 | 0101 | 567 | 0-125 | 109 | 109 |
| 85.50 | 33°36.7' | 119°52' | III-7 | 1928 | 1941 | 405 | 0-69 | 232 | 232 |
| 85.60 | 33°17' | 120°33' | III-7 | 1441 | 1456 | 642 | 0-133 | 142 | 142 |
| 85.70 | 32°56.8' | 121°14' | III-7 | 0641 | 0656 | 542 | 0-131 | 1365 | 1365 |
| 90.28 | 33°30.2' | 117°46.5' | III-8 | 1209 | 1217 | 290 | 0-42 | 31 | 31 |
| 90.30 | 33°24.4' | 117°55.7' | III-8 | 1256 | 1411 | 556 | 0-133 | 47 | 47 |
| 90.37 | 33°11' | 118°23.5' | III-8 | 1741 | 1756 | 517 | 0-139 | 54 | 54 |
| 90.45 | 32°55.2' | 118°56.4' | III-8 | 1036 | 1050 | 502 | 0-142 | 80 | 80 |
| 90.53 | 32°37.5' | 119°31.1' | III-9 | 0346 | 0401 | 452 | 0-153 | 49 | 49 |
| 90.60 | 32°23.1' | 120°01.5' | III-9 | 0756 | 0810 | 490 | 0-138 | 265 | 265 |
| 90.70 | 32°05' | 120°39' | III-9 | 1341 | 1356 | 506 | 0-143 | 24 | 24 |
| 90.80 | 31°45.8' | 121°19' | III-9 | 2024 | 2041 | 518 | 0-137 | 48 | 48 |
| 90.90 | 31°25' | 121°59' | III-10 | 0256 | 0311 | 496 | 0-136 | 32 | 32 |
| 93.27 | 32°55.7' | 117°19.2' | III-11 | 1718 | 1729 | 319 | 0-59 | 179 | 179 |
| 93.30 | 32°50' | 117°31.5' | III-11 | 1506 | 1521 | 563 | 0-141 | 52 | 52 |
| 93.40 | 32°30' | 118°10' | III-11 | 0856 | 0911 | 560 | 0-133 | 54 | 54 |
| 93.50 | 32°11' | 118°53' | III-11 | 0331 | 0346 | 550 | 0-144 | 151 | 151 |
| 93.60 | 31°54.5' | 119°36' | III-10 | 2056 | 2111 | 491 | 0-137 | 75 | 75 |
| 93.70 | 31°33' | 120°22.5' | III-10 | 1356 | 1411 | 508 | 0-145 | 63 | 63 |
| 97.30 | 32°15.2' | 117°08.9' | III-12 | 0434 | 0440 | 175 | 0-149 | 51 | 51 |
| 97.32 | 32°11.5' | 117°17' | III-12 | 0731 | 0746 | 491 | 0-140 | 59 | 59 |
| 97.40 | 31°54.8' | 117°51.6' | III-12 | 1206 | 1221 | 525 | 0-136 | 57 | 57 |
| 97.50 | 31°35.9' | 118°30' | III-12 | 1726 | 1741 | 509 | 0-136 | 63 | 63 |
| 97.60 | 31°16' | 119°10' | III-12 | 2306 | 2321 | 475 | 0-140 | 76 | 76 |
| 97.70 | 30°54.5' | 119°48.1' | III-13 | 1326 | 1341 | 397 | 0-163 | 53 | 53 |
| 100.29 | 31°42.2' | 116°43.4' | III-14 | 0250 | 0301 | 363 | 0-54 | 154 | 154 |
| 100.30 | 31°40.5' | 116°46.5' | III-15 | 0151 | 0206 | 513 | 0-144 | 127 | 127 |
| 100.40 | 31°25' | 117°27.6' | III-14 | 2026 | 2041 | 522 | 0-142 | 31 | 31 |
| 100.50 | 31°01' | 118°02.1' | III-14 | 1416 | 1431 | 477 | 0-145 | 27 | 27 |
| 100.60 | 30°44.4' | 118°48' | III-14 | 0831 | 0846 | 574 | 0-116 | 37 | 37 |
| 100.70 | 30°20' | 119°25' | III-14 | 0306 | 0321 | 528 | 0-125 | 64 | 64 |
| 100.80 | 29°56.2' | 120°04.8' | III-13 | 2121 | 2136 | 497 | 0-141 | 36 | 36 |
| 100.90 | 29°40.1' | 120°47' | III-13 | 1536 | 1551 | 544 | 0-145 | 55 | 55 |
| 105.32 | 30°45.5' | 116°20.7' | III-15 | 0922 | 0933 | 341 | 0-54 | 117 | 117 |
| 105.35 | 30°38' | 116°33.4' | III-15 | 1156 | 1211 | 545 | 0-140 | 92 | 92 |
| 105.40 | 30°28.5' | 116°54' | III-15 | 1611 | 1626 | 552 | 0-135 | 71 | 71 |
| 105.50 | 30°04' | 117°34.5' | III-15 | 2206 | 2221 | 502 | 0-133 | 112 | 112 |
| 105.60 | 29°37.2' | 118°14.7' | III-16 | 0501 | 0516 | 489 | 0-138 | 49 | 49 |
| 105.70 | 29°32.8' | 118°50.2' | III-16 | 1316 | 1331 | 608 | 0-115 | 31 | 31 |
| 105.80 | Not occupied | | | | | | | | |

Plankton Volumes, Cruise 35, March 1952 (cont'd)

| Sta. | Position | | Time (PST) | | Vol. water strained | Depth of haul in meters | Vol. per 1000 C.M. strained | | |
|--------|----------|-----------|--------------|-------|---------------------|-------------------------|-----------------------------|-----------|--------------|
| | N. lat. | W. long. | Date (1952) | Start | | | End | Total cc. | Sm. org. cc. |
| 110.35 | 29°45.5' | 115°58' | III-15 | 1841 | 1856 | 512 | 0-139 | 59 | 59 |
| 110.40 | 29°36' | 116°19' | III-15 | 2141 | 2156 | 488 | 0-142 | 94 | 94 |
| 110.50 | 29°17' | 116°59' | III-16 | 0326 | 0341 | 473 | 0-140 | 70 | 70 |
| 110.60 | 28°54.5' | 117°39' | III-16 | 0856 | 0911 | 567 | 0-137 | 56 | 56 |
| 110.70 | 28°36' | 118°18' | III-16 | 1501 | 1516 | 519 | 0-139 | 46 | 46 |
| 110.80 | | | Not occupied | | | | | | |
| 110.90 | | | Not occupied | | | | | | |
| 113.30 | 29°22' | 115°17' | III-15 | 1319 | 1325 | 263 | 0-35 | 600 | 600 |
| 113.35 | 29°07' | 115°36' | III-15 | 1026 | 1041 | 523 | 0-139 | 99 | 99 |
| 113.40 | 29°03' | 115°57' | III-15 | 0726 | 0741 | 504 | 0-140 | 22 | 22 |
| 113.50 | 28°44' | 116°38' | III-15 | 0212 | 0225 | 454 | 0-139 | 64 | 64 |
| 113.60 | 28°23.5' | 117°13.5' | III-14 | 2126 | 2141 | 510 | 0-139 | 98 | 98 |
| 117.26 | 28°54.2' | 114°44' | III-13 | 2159 | 2206 | 182 | 0-38 | 160 | 160 |
| 117.30 | 28°48' | 114°57' | III-14 | 0019 | 0027 | 343 | 0-49 | 44 | 44 |
| 117.35 | 28°36.5' | 115°19' | III-14 | 0328 | 0341 | 424 | 0-69 | 85 | 85 |
| 117.40 | 28°27' | 115°35' | III-14 | 0611 | 0626 | 519 | 0-144 | 50 | 50 |
| 117.50 | 28°08' | 116°15' | III-14 | 1141 | 1155 | 462 | 0-135 | 61 | 61 |
| 117.60 | 27°49' | 116°51' | III-14 | 1651 | 1706 | 509 | 0-137 | 75 | 75 |
| 120.25 | 28°21' | 114°15' | III-13 | 1729 | 1736 | 242 | 0-38 | 8 | 8 |
| 120.30 | 28°13' | 114°34' | III-13 | 1454 | 1501 | 242 | 0-42 | 157 | 157 |
| 120.35 | 28°03' | 114°54' | III-13 | 1214 | 1221 | 280 | 0-41 | 132 | 132 |
| 120.45 | 27°40' | 115°28.5' | III-13 | 0516 | 0531 | 486 | 0-148 | 123 | 123 |
| 120.50 | 27°30.5' | 115°50.5' | III-13 | 0111 | 0126 | 462 | 0-142 | 65 | 65 |
| 120.60 | 27°13' | 116°31.5' | III-12 | 1936 | 1951 | 514 | 0-139 | 82 | 82 |
| 120.70 | 26°52' | 117°10' | III-12 | 1402 | 1416 | 495 | 0-135 | 99 | 99 |
| 120.80 | 26°30' | 117°48' | III-12 | 0831 | 0846 | 396 | 0-149 | 61 | 61 |
| 120.90 | 26°13' | 118°27.5' | III-12 | 0146 | 0201 | 504 | 0-140 | 44 | 44 |
| 123.37 | 27°24' | 114°39' | III-10 | 2104 | 2112 | 273 | 0-45 | 110 | 110 |
| 123.40 | 27°18' | 114°51.5' | III-10 | 2326 | 2341 | 520 | 0-144 | 98 | 98 |
| 123.50 | 26°58' | 115°30.5' | III-11 | 0521 | 0536 | 536 | 0-131 | 75 | 75 |
| 123.60 | 26°37.5' | 116°08.5' | III-11 | 1111 | 1126 | 520 | 0-133 | 27 | 27 |
| 127.34 | 26°55' | 114°05' | III-10 | 1529 | 1536 | 249 | 0-40 | 64 | 64 |
| 127.40 | 26°43.2' | 114°35' | III-10 | 1156 | 1210 | 490 | 0-132 | 90 | 90 |
| 127.50 | 26°23' | 115°09' | III-10 | 0631 | 0646 | 859 | 0-151 | 60 | 60 |
| 127.60 | 26°03' | 115°47' | III-10 | 0036 | 0051 | 480 | 0-147 | 83 | 83 |
| 130.30 | 26°29' | 113°29' | III-9 | 0014 | 0021 | 265 | 0-42 | 246 | 246 |
| 130.35 | 26°19' | 113°49' | III-9 | 0316 | 0331 | 498 | 0-150 | 58 | 58 |
| 130.40 | 26°08.5' | 114°08' | III-9 | 0646 | 0701 | 494 | 0-145 | 127 | 127 |
| 130.50 | 25°49' | 114°47' | III-9 | 1246 | 1301 | 468 | 0-145 | 107 | 107 |
| 130.60 | 25°29' | 115°24' | III-9 | 1841 | 1856 | 530 | 0-132 | 70 | 70 |
| 133.25 | 26°04.5' | 112°48' | III-8 | 1914 | 1921 | 260 | 0-40 | 461 | 461 |
| 133.30 | 25°54' | 113°05' | III-8 | 1641 | 1656 | 458 | 0-144 | 168 | 168 |
| 133.40 | 25°34.5' | 113°45.5' | III-8 | 1211 | 1226 | 514 | 0-138 | 136 | 136 |
| 133.50 | 25°14.5' | 114°24' | III-8 | 0626 | 0640 | 496 | 0-135 | 117 | 117 |
| 137.23 | 25°33' | 112°20' | III-7 | 1214 | 1222 | 314 | 0-41 | 261 | 261 |
| 137.30 | 25°20' | 112°45' | III-7 | 1517 | 1531 | 505 | 0-137 | 305 | 305 |
| 137.40 | 24°58.5' | 113°26.5' | III-7 | 1931 | 1946 | 469 | 0-146 | 139 | 139 |
| 137.50 | 24°39.8' | 114°02' | III-8 | 0046 | 0101 | 480 | 0-139 | 142 | 142 |

Plankton Volumes, Cruise 35, Late March 1952

| Sta. | Position | | Date (1952) | Time (PST) | | Vol. | Depth of haul in meters | Vol. per 1000 | |
|--------|----------|-----------|----------------|------------|------|---------------------------|-------------------------------|-------------------------------|-----------------|
| | N. lat. | W. long. | | Start | End | water strained C.M. | | Total C.M. strained cc. | Sm. org. cc. |
| 113.30 | 29°22.5' | 115°17.5' | IV-2 | 1548 | 1554 | 167 | 0-41 | 609 | 609 |
| 113.35 | 29°12' | 115°39' | IV-2 | 1149 | 1204 | 475 | 0-146 | 93 | 93 |
| 113.40 | 29°02' | 115°58.5' | IV-2 | 0748 | 0803 | 492 | 0-138 | 114 | 114 |
| 113.45 | 28°52' | 116°18' | IV-2 | 0521 | 0536 | 467 | 0-137 | 73 | 73 |
| 113.50 | 28°42' | 116°37.5' | IV-2 | 0136 | 0151 | 448 | 0-143 | 94 | 94 |
| 113.55 | 28°32' | 116°57' | IV-1 | 2306 | 2321 | 451 | 0-151 | 209 | 209 |
| 113.60 | 28°22' | 117°16.5' | IV-1 | 1946 | 2000 | 489 | 0-139 | 65 | 65 |
| 113.65 | 28°12' | 117°35' | IV-1 | 1717 | 1732 | 504 | 0-137 | 50 | 50 |
| 113.70 | 28°02' | 117°55.5' | IV-1 | 1402 | 1417 | 477 | 0-141 | 46 | 46 |
| 117.26 | 28°56' | 114°41' | III-31 | 0553 | 0601 | 304 | 0-63 | 59 | 59 |
| 117.30 | 28°48' | 114°56.5' | III-31 | 0758 | 0807 | 304 | 0-85 | 289 | 289 |
| 117.35 | 28°38' | 115°17' | III-31 | 1108 | 1123 | 464 | 0-145 | 80 | 80 |
| 117.40 | 28°28' | 115°35.5' | III-31 | 1338 | 1353 | 480 | 0-141 | 58 | 58 |
| 117.45 | 28°18' | 115°55' | III-31 | 1705 | 1720 | 491 | 0-136 | 57 | 57 |
| 117.50 | 28°08' | 116°15' | III-31 | 1936 | 1951 | 481 | 0-144 | 48 | 48 |
| 117.55 | 27°57' | 116°35' | III-31 | 2256 | 2311 | 459 | 0-148 | 65 | 65 |
| 117.60 | 27°47.5' | 116°54' | IV-1 | 0136 | 0151 | 464 | 0-143 | 349 | 349 |
| 117.65 | 27°38' | 117°13' | IV-1 | 0456 | 0511 | 501 | 0-135 | 98 | 98 |
| 117.70 | 27°27.5' | 117°32.5' | IV-1 | 0734 | 0749 | 469 | 0-140 | 81 | 81 |
| 120.25 | 28°23' | 114°14.5' | III-31 | 0143 | 0150 | 228 | 0-56 | 158 | 158 |
| 120.30 | 28°13' | 114°34' | III-30 | 2303 | 2310 | 269 | 0-70 | 275 | 275 |
| 120.35 | 28°03' | 114°54' | III-30 | 2016 | 2024 | 292 | 0-69 | 192 | 192 |
| 120.40 | 27°55.5' | 115°16' | III-30 | 1804 | 1808 | 145 | 0-33 | 48 | 48 |
| 120.45 | 27°43' | 115°33' | III-30 | 1436 | 1451 | 499 | 0-140 | 60 | 60 |
| 120.50 | 27°33' | 115°52.5' | III-30 | 1111 | 1126 | 473 | 0-142 | 40 | 40 |
| 120.55 | 27°23' | 116°12' | III-30 | 0823 | 0838 | 489 | 0-142 | 53 | 53 |
| 120.60 | 27°13' | 116°31.5' | III-30 | 0601 | 0616 | 516 | 0-135 | 52 | 52 |
| 120.65 | 27°03' | 116°50' | III-30 | 0209 | 0224 | 474 | 0-140 | 80 | 80 |
| 120.70 | 26°52.5' | 117°10' | III-29 | 2245 | 2300 | 496 | 0-140 | 145 | 145 |
| 120.80 | 26°32.5' | 117°48.5' | III-29 | 1706 | 1721 | 509 | 0-135 | 63 | 63 |
| 120.90 | 26°13' | 118°27.5' | III-29 | 1006 | 1021 | 501 | 0-139 | 30 | 30 |
| 123.37 | 27°24' | 114°39.7' | III-28 | 0503 | 0510 | 259 | 0-46 | 386 | 386 |
| 123.40 | 27°18' | 114°51.5' | III-28 | 0701 | 0716 | 471 | 0-134 | 148 | 148 |
| 123.45 | 27°08' | 115°11' | III-28 | 1046 | 1101 | 465 | 0-142 | 56 | 56 |
| 123.50 | 26°58' | 115°30.5' | III-28 | 1307 | 1322 | 483 | 0-141 | 122 | 122 |
| 123.55 | 26°48' | 115°50' | III-28 | 1623 | 1638 | 495 | 0-137 | 129 | 129 |
| 123.60 | 26°38.5' | 116°09' | III-28 | 1856 | 1911 | 490 | 0-137 | 88 | 88 |
| 127.34 | 26°55.3' | 114°06' | III-28 | 2353 | 0000 | 237 | 0-60 | 126 | 126 |
| 127.40 | 26°43.5' | 114°29.5' | III-27 | 2001 | 2016 | 459 | 0-141 | 235 | 235 |
| 127.45 | 26°30' | 114°27' | III-27 | 1736 | 1751 | 487 | 0-134 | 148 | 148 |
| 127.50 | 26°23.5' | 115°08' | III-27 | 1421 | 1436 | 454 | 0-139 | 77 | 77 |
| 127.55 | 26°14' | 115°27' | III-27 | 1111 | 1126 | 475 | 0-141 | 135 | 135 |
| 127.60 | 26°03.5' | 115°46.5' | III-27 | 0731 | 0746 | 488 | 0-135 | 27 | 27 |

Plankton Volumes, Cruise 35, Late March 1952 (cont'd)

| Sta. | Position | | (1952) 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. |
| 130.30 | 26°29' | 113°29' | III-26 | 0648 | 0655 | 290 | 0-59 | 76 | 76 |
| 130.35 | 26°19' | 113°48.5' | III-26 | 0916 | 0931 | 495 | 0-130 | 77 | 77 |
| 130.40 | 26°09' | 114°07.5' | III-26 | 1206 | 1221 | 473 | 0-141 | 142 | 142 |
| 130.45 | 25°59' | 114°27' | III-26 | 1621 | 1636 | 496 | 0-137 | 151 | 151 |
| 130.50 | 25°49' | 114°46' | III-26 | 1852 | 1907 | 491 | 0-135 | 313 | 313 |
| 130.52 | 25°44' | 114°56' | III-26 | 2122 | 2137 | 511 | 0-133 | 174 | 174 |
| 130.55 | 25°40' | 115°05' | III-26 | 2252 | 2307 | 481 | 0-141 | 102 | 102 |
| 130.60 | 25°29' | 115°24' | III-27 | 0126 | 0141 | 483 | 0-140 | 118 | 118 |
| 133.25 | 26°04.5' | 112°48' | III-26 | 0113 | 0120 | 260 | 0-64 | 146 | 146 |
| 133.30 | 25°54.5' | 113°07.5' | III-25 | 2157 | 2208 | 344 | 0-103 | 145 | 145 |
| 133.35 | 25°44' | 113°26' | III-25 | 1921 | 1936 | 503 | 0-136 | 111 | 111 |
| 133.40 | 25°34.5' | 113°45.5' | III-25 | 1611 | 1626 | 513 | 0-135 | 105 | 105 |
| 133.45 | 25°25' | 114°04' | III-25 | 1326 | 1341 | 519 | 0-140 | 256 | 256 |
| 133.50 | 25°13' | 114°21' | III-25 | 1010 | 1026 | 634 | 0-119 | 74 | 74 |
| 133.60 | 24°54.5' | 115°01.5' | III-25 | 0356 | 0411 | 496 | 0-135 | 73 | 73 |
| 137.23 | 25°34.2' | 112°18.7' | III-23 | 2137 | 2144 | 284 | 0-61 | 267 | 267 |
| 137.30 | 25°20' | 112°45.5' | III-24 | 0114 | 0128 | 499 | 0-134 | 208 | 208 |
| 137.40 | 25°00' | 113°23.5' | III-24 | 0958 | 1013 | 492 | 0-140 | 210 | 210 |
| 137.45 | 24°50' | 113°43' | III-24 | 1414 | 1429 | 508 | 0-141 | 71 | 71 |
| 137.50 | | | Occupied. | | Sample spoiled | | | | |
| 137.60 | 24°20' | 114°39.5' | III-24 | 2216 | 2231 | 502 | 0-139 | 40 | 40 |

Plankton Volumes, Cruise 36, April 1952

| Sta. | Position | | (1952) 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. |
| 60.55 | 37°47.5' | 123°15' | IV-6 | 0658 | 0711 | 512 | 0-62 | 351 | 351 |
| 60.60 | 37°37' | 123°37' | IV-6 | 0336 | 0351 | 587 | 0-116 | 579 | 579 |
| 60.70 | 37°19' | 124°21' | IV-5 | 2146 | 2201 | 468 | 0-138 | 2330 | 2330 |
| 60.80 | 37°02' | 125°01.1' | IV-5 | 1721 | 1736 | 616 | 0-103 | 269 | 269 |
| 60.90 | 36°36' | 125°47.5' | IV-5 | 1131 | 1146 | 563 | 0-122 | 753 | 753 |
| 63.52 | 37°19' | 122°36.2' | IV-7 | 1549 | 1557 | 412 | 0-37 | 320 | 320 |
| 63.55 | 37°14' | 122°49.5' | IV-7 | 1346 | 1402 | 633 | 0-129 | 291 | 291 |
| 67.50 | 36°49' | 122°04.6' | IV-7 | 2033 | 2046 | 469 | 0-69 | 245 | 245 |
| 67.55 | 36°39.5' | 122°25.8' | IV-8 | 0026 | 0040 | 497 | 0-150 | 271 | 271 |
| 70.55 | 36°03' | 122°02' | IV-8 | 0636 | 0651 | 514 | 0-140 | 202 | 202 |
| 70.60 | 35°48.8' | 122°24' | IV-8 | 0956 | 1011 | 511 | 0-146 | 431 | 431 |
| 70.70 | 35°31.4' | 123°11' | IV-8 | 1531 | 1545 | 569 | 0-126 | 583 | 583 |
| 70.80 | 35°14.2' | 123°48' | IV-8 | 2136 | 2151 | 531 | 0-130 | 247 | 203 |
| 70.90 | 34°53.5' | 124°30' | IV-9 | 0316 | 0331 | 596 | 0-125 | 272 | 272 |
| 73.50 | 35°37' | 121°16.6' | IV-4 | 0929 | 0937 | 317 | 0-38 | 133 | 133 |
| 73.60 | 35°18.2' | 121°57.6' | IV-4 | 1531 | 1546 | 493 | 0-132 | 205 | 205 |
| 77.50 | 35°04.4' | 120°52' | IV-4 | 0108 | 0121 | 457 | 0-68 | 147 | 147 |
| 77.55 | 34°54.5' | 121°13' | IV-4 | 0421 | 0436 | 551 | 0-131 | 218 | 218 |
| 80.51 | 34°26.3' | 120°32.5' | IV-10 | 2213 | 2224 | 347 | 0-49 | 961 | 961 |
| 80.55 | 34°19.5' | 120°47.7' | IV-10 | 1956 | 2011 | 540 | 0-143 | 341 | 326 |
| 80.60 | 34°08.2' | 121°09.5' | IV-10 | 1631 | 1646 | 511 | 0-144 | 352 | 294 |
| 80.70 | 33°50.8' | 121°50.5' | IV-10 | 1041 | 1056 | 513 | 0-140 | 78 | 78 |
| 80.80 | 33°30.2' | 122°31.2' | IV-10 | 0455 | 0511 | 585 | 0-139 | 176 | 176 |
| 80.90 | 33°08' | 123°12.5' | IV-9 | 2311 | 2326 | 510 | 0-144 | 270 | 270 |
| 80.100 | 32°50.7' | 123°54.1' | IV-9 | 1711 | 1726 | 528 | 0-139 | 867 | 867 |
| 83.55 | 33°44.1' | 120°24' | IV-11 | 0336 | 0351 | 535 | 0-135 | 204 | 204 |
| 83.60 | 33°33.6' | 120°44.5' | IV-11 | 0711 | 0726 | 493 | 0-141 | 146 | 146 |
| 83.70 | 33°16.1' | 121°27.6' | IV-11 | 1321 | 1336 | 610 | 0-131 | 328 | 328 |
| 83.80 | 32°55' | 122°06.1' | IV-11 | 1901 | 1916 | 565 | 0-136 | 60 | 60 |
| 83.90 | 32°36.4' | 121°46.8' | IV-12 | 0326 | 0341 | 600 | 0-130 | 145 | 120 |
| 87.35 | 33°50' | 118°37.5' | IV-13 | 1511 | 1526 | 581 | 0-110 | 193 | 193 |
| 87.40 | 33°40.5' | 118°59' | IV-13 | 1231 | 1246 | 538 | 0-126 | 175 | 175 |
| 87.50 | 33°20.3' | 119°39.5' | IV-13 | 0734 | 0742 | 290 | 0-39 | 252 | 252 |
| 87.60 | 32°55' | 121°17.1' | IV-13 | 0141 | 0156 | 477 | 0-138 | 189 | 189 |
| 87.70 | 32°37' | 121°01.9' | IV-12 | 2011 | 2026 | 483 | 0-139 | 104 | 79 |
| 87.80 | 32°19.3' | 121°43.6' | IV-12 | 1501 | 1516 | 440 | 0-141 | 91 | 71 |
| 87.90 | 32°02' | 121°23' | IV-12 | 0846 | 0901 | 518 | 0-134 | 332 | 270 |

Plankton Volumes, Cruise 36, April 1952 (cont'd)

| Sta. | Position | | Date (1952) | 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. |
| 90.28 | 33°28' | 117°47.5' | IV-1 | 2156 | 2210 | 455 | 0-141 | 213 | 213 |
| 90.30 | 33°24.5' | 117°55' | IV-1 | 2256 | 2310 | 564 | 0-138 | 147 | 147 |
| 90.37 | 33°10.5' | 118°23.5' | IV-2 | 0251 | 0306 | 531 | 0-137 | 136 | 136 |
| 90.45 | 32°54.5' | 118°56' | IV-2 | 0737 | 0750 | 442 | 0-146 | 154 | 154 |
| 90.53 | 32°39' | 119°28.5' | IV-2 | 1226 | 1241 | 454 | 0-177 | 66 | 66 |
| 90.60 | 32°27' | 119°53.5' | IV-2 | 1621 | 1636 | 487 | 0-150 | 72 | 72 |
| 90.70 | 32°04' | 120°39' | IV-2 | 2255 | 2311 | 489 | 0-147 | 80 | 80 |
| 90.80 | 31°46.5' | 121°19' | IV-3 | 0531 | 0546 | 533 | 0-140 | 21 | 21 |
| 90.90 | 31°25' | 121°59' | IV-3 | 1136 | 1151 | 506 | 0-127 | 28 | 28 |
| 90.100 | 31°05' | 122°39' | IV-3 | 1702 | 1716 | 470 | 0-138 | 32 | 32 |
| 93.27 | 32°55' | 117°19' | IV-5 | 0856 | 0910 | 507 | 0-122 | 138 | 138 |
| 93.30 | 32°50' | 117°31.5' | IV-5 | 0657 | 0711 | 451 | 0-133 | 149 | 149 |
| 93.40 | 32°30' | 118°12.5' | IV-5 | 0231 | 0246 | 455 | 0-141 | 171 | 171 |
| 93.50 | 32°10' | 118°54' | IV-4 | 2056 | 2110 | 449 | 0-140 | 67 | 67 |
| 93.60 | 31°52' | 119°30' | IV-4 | 1646 | 1700 | 463 | 0-128 | 50 | 50 |
| 93.70 | 31°33' | 120°16' | IV-4 | 1131 | 1145 | 465 | 0-141 | 49 | 49 |
| 93.80 | 31°12' | 121°00' | IV-4 | 0522 | 0535 | 426 | 0-159 | 40 | 40 |
| 93.90 | 30°51' | 121°36.5' | IV-4 | 0106 | 0121 | 487 | 0-150 | 60 | 60 |
| 97.32 | 32°10.5' | 117°16.5' | IV-6 | 1356 | 1411 | 452 | 0-129 | 102 | 102 |
| 97.40 | 31°55' | 117°50.5' | IV-6 | 1832 | 1845 | 452 | 0-130 | 86 | 86 |
| 97.50 | 31°35' | 118°31' | IV-7 | 0026 | 0041 | 470 | 0-139 | 96 | 96 |
| 97.60 | 31°12' | 119°08.5' | IV-7 | 0512 | 0525 | 434 | 0-143 | 72 | 72 |
| 97.70 | 30°51' | 119°51' | IV-7 | 1026 | 1040 | 466 | 0-133 | 69 | 69 |
| 97.80 | 30°35' | 120°31' | IV-7 | 1536 | 1551 | 463 | 0-132 | 45 | 45 |
| 97.90 | 30°15' | 121°11' | IV-7 | 2111 | 2125 | 445 | 0-146 | 47 | 47 |
| 100.29 | 31°42' | 116°44' | IV-9 | 1759 | 1811 | 376 | 0-66 | 406 | 406 |
| 100.30 | 31°40.5' | 116°45' | IV-9 | 1657 | 1710 | 470 | 0-126 | 198 | 198 |
| 100.40 | 31°19' | 117°25' | IV-9 | 1209 | 1224 | 392 | 0-149 | 74 | 74 |
| 100.50 | 30°58' | 118°05' | IV-9 | 0522 | 0535 | 430 | 0-140 | 86 | 86 |
| 100.60 | 30°41' | 118°47.5' | IV-9 | 0021 | 0036 | 444 | 0-142 | 59 | 59 |
| 100.70 | 30°20.5' | 119°27' | IV-8 | 1916 | 1930 | 425 | 0-142 | 68 | 68 |
| 100.80 | 30°01' | 120°07' | IV-8 | 1426 | 1441 | 441 | 0-142 | 48 | 48 |
| 100.90 | 29°40' | 120°47' | IV-8 | 0926 | 0941 | 458 | 0-145 | 68 | 68 |
| 100.100 | 29°20' | 121°27' | IV-8 | 0341 | 0355 | 454 | 0-149 | 79 | 79 |
| 103.30 | 31°04.5' | 116°26.5' | IV-9 | 2224 | 2234 | 300 | 0-56 | 113 | 113 |
| 103.35 | 30°55.5' | 116°45' | IV-10 | 0056 | 0111 | 426 | 0-140 | 190 | 190 |
| 103.40 | 30°46' | 117°06' | IV-10 | 0401 | 0415 | 427 | 0-136 | 75 | 75 |
| 103.50 | 30°26' | 117°45.5' | IV-10 | 0901 | 0915 | 446 | 0-132 | 128 | 128 |
| 103.60 | 30°06' | 118°24.5' | IV-10 | 1416 | 1431 | 449 | 0-141 | 58 | 58 |
| 103.70 | 29°46' | 119°05.5' | IV-10 | 2011 | 2026 | 444 | 0-141 | 63 | 63 |
| 103.80 | 29°27' | 119°45' | IV-11 | 0131 | 0146 | 436 | 0-144 | 46 | 46 |
| 103.90 | 29°06' | 120°25' | IV-11 | 0955 | 1011 | 461 | 0-146 | 39 | 39 |

Plankton Volumes, Cruise 36, April 1952 (cont'd)

| Sta. | Position | | (1952) 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. |
| 107.32 | 30°25.5' | 116°12' | IV-12 | 1801 | 1815 | 441 | 0-140 | 136 | 136 |
| 107.35 | 30°19' | 116°21.5' | IV-12 | 1557 | 1610 | 447 | 0-132 | 103 | 103 |
| 107.40 | 30°05.5' | 116°43' | IV-12 | 1221 | 1236 | 454 | 0-143 | 70 | 70 |
| 107.50 | 29°48.5' | 117°23' | IV-12 | 0716 | 0730 | 411 | 0-148 | 83 | 83 |
| 107.60 | 29°32' | 118°03' | IV-12 | 0221 | 0236 | 416 | 0-144 | 106 | 106 |
| 107.70 | 29°13.5' | 118°45' | IV-11 | 2126 | 2141 | 449 | 0-142 | 71 | 71 |
| 107.80 | 28°53' | 119°27.5' | IV-11 | 1602 | 1616 | 441 | 0-135 | 34 | 34 |
| 110.33 | 29°49.5' | 115°54' | IV-12 | 2226 | 2241 | 465 | 0-139 | 32 | 32 |
| 110.35 | 29°46.5' | 116°00' | IV-13 | 0011 | 0026 | 464 | 0-144 | 168 | 168 |
| 110.40 | 29°36.5' | 116°19.5' | IV-13 | 0316 | 0331 | 434 | 0-144 | 111 | 111 |
| 110.50 | 29°16.5' | 116°59' | IV-13 | 0841 | 0856 | 459 | 0-136 | 194 | 194 |
| 110.60 | 28°53.5' | 117°38' | IV-13 | 1331 | 1346 | 474 | 0-137 | 116 | 116 |
| 110.70 | 28°36' | 118°18' | IV-13 | 1852 | 1906 | 457 | 0-135 | 57 | 57 |
| 110.80 | 28°16.5' | 118°57.5' | IV-13 | 2346 | 0001 | 454 | 0-144 | 62 | 62 |
| 110.90 | 27°57.5' | 119°35' | IV-14 | 0527 | 0540 | 426 | 0-148 | 87 | 87 |
| 113.30 | 29°22.5' | 115°17.5' | IV-15 | 0826 | 0831 | 214 | 0-35 | 1217 | 1217 |
| 113.35 | 29°12' | 115°39' | IV-15 | 0326 | 0341 | 467 | 0-140 | 88 | 88 |
| 113.40 | 29°02' | 115°58.5' | IV-14 | 2211 | 2226 | 444 | 0-151 | 65 | 65 |
| 113.50 | | | Not occupied | | | | | | |
| 113.60 | 28°21' | 117°18.5' | IV-14 | 0521 | 0536 | 470 | 0-132 | 57 | 57 |
| 113.65 | 28°12' | 117°36' | IV-14 | 0237 | 0251 | 467 | 0-137 | 101 | 101 |
| 113.70 | 28°02' | 117°55.5' | IV-13 | 2256 | 2311 | 458 | 0-142 | 63 | 63 |
| 117.26 | 28°56' | 114°41' | IV-12 | 1537 | 1546 | 253 | 0-70 | 99 | 99 |
| 117.30 | 28°48' | 114°56.5' | IV-12 | 1825 | 1833 | 251 | 0-70 | 267 | 267 |
| 117.35 | 28°38' | 115°16' | IV-12 | 2126 | 2141 | 459 | 0-138 | 41 | 41 |
| 117.40 | 28°28' | 115°35.5' | IV-12 | 2351 | 0006 | 466 | 0-138 | 79 | 79 |
| 117.45 | 28°18' | 115°55' | IV-13 | 0321 | 0336 | 451 | 0-141 | 38 | 38 |
| 117.50 | 28°09' | 116°16.5' | IV-13 | 0601 | 0616 | 482 | 0-139 | 25 | 25 |
| 117.55 | 28°02.5' | 116°35' | IV-13 | 0922 | 0936 | 440 | 0-140 | 34 | 34 |
| 117.60 | 27°47' | 116°56' | IV-13 | 1146 | 1200 | 449 | 0-138 | 60 | 60 |
| 117.65 | 27°38' | 117°12' | IV-13 | 1411 | 1426 | 465 | 0-140 | 19 | 19 |
| 117.70 | 27°27.5' | 117°32.5' | IV-13 | 1636 | 1651 | 490 | 0-140 | 53 | 53 |
| 120.25 | 28°23' | 114°14.5' | IV-12 | 1024 | 1029 | 165 | 0-39 | 6 | 6 |
| 120.30 | 28°13' | 114°34' | IV-12 | 0723 | 0730 | 268 | 0-70 | 86 | 86 |
| 120.35 | 28°03' | 114°54' | IV-12 | 0436 | 0443 | 235 | 0-62 | 115 | 115 |
| 120.40 | 27°57' | 115°14' | IV-12 | 0209 | 0213 | 150 | 0-22 | 114 | 114 |
| 120.45 | 27°43' | 115°33' | IV-11 | 2206 | 2221 | 457 | 0-139 | 55 | 55 |
| 120.45 | 27°43' | 115°33' | IV-15 | 1856 | 1911 | 493 | 0-139 | 83 | 83 |
| 120.50 | 27°31.3' | 115°53.5' | IV-11 | 1836 | 1851 | 463 | 0-141 | 106 | 106 |
| 120.55 | 27°23' | 116°12' | IV-11 | 1606 | 1620 | 454 | 0-137 | 22 | 22 |
| 120.60 | 27°13' | 116°31.5' | IV-11 | 1203 | 1218 | 452 | 0-141 | 20 | 20 |
| 120.65 | 27°03' | 116°51' | IV-11 | 0934 | 0948 | 466 | 0-137 | 26 | 26 |
| 120.70 | 26°52.5' | 117°10' | IV-11 | 0553 | 0608 | 469 | 0-142 | 60 | 60 |
| 120.80 | 26°32.5' | 117°48.5' | IV-10 | 2331 | 2346 | 483 | 0-147 | 39 | 39 |
| 120.90 | 26°12' | 118°25' | IV-10 | 1751 | 1806 | 476 | 0-140 | 21 | 21 |

Plankton Volumes, Cruise 36, April 1952 (cont'd)

| Sta. | Position | | (1952) 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. |
| 123.37 | 27°24' | 114°41' | IV-9 | 1153 | 1200 | 212 | 0-55 | 250 | 250 |
| 123.40 | 27°18' | 114°51.5' | IV-9 | 1341 | 1356 | 454 | 0-143 | 51 | 51 |
| 123.40E | 27°17' | 114°51.5' | IV-16 | 0142 | 0156 | 466 | 0-143 | 45 | 45 |
| 123.45 | 27°08' | 115°11' | IV-9 | 1706 | 1721 | 474 | 0-139 | 70 | 70 |
| 123.45E | 27°08' | 115°10.7' | IV-15 | 2313 | 2328 | 472 | 0-139 | 91 | 91 |
| 123.50 | 26°58' | 115°30.5' | IV-9 | 1936 | 1951 | 478 | 0-135 | 94 | 94 |
| 123.55 | 26°48' | 115°49.7' | IV-9 | 2301 | 2316 | 476 | 0-142 | 86 | 86 |
| 123.60 | 26°38.5' | 116°09' | IV-10 | 0118 | 0133 | 497 | 0-137 | 66 | 66 |
| 127.34 | 26°55.3' | 114°06' | IV-9 | 0639 | 0646 | 255 | 0-62 | 255 | 255 |
| 127.40 | 26°43.5' | 114°29.5' | IV-9 | 0235 | 0250 | 454 | 0-142 | 174 | 174 |
| 127.45 | 26°33' | 114°49' | IV-9 | 0001 | 0016 | 434 | 0-144 | 279 | 279 |
| 127.50 | 26°23.5' | 115°08' | IV-8 | 2011 | 2026 | 476 | 0-141 | 103 | 103 |
| 127.55 | 26°14' | 115°27' | IV-8 | 1746 | 1801 | 484 | 0-141 | 60 | 60 |
| 127.60 | 26°04' | 115°46' | IV-8 | 1436 | 1451 | 490 | 0-140 | 29 | 29 |
| 130.30 | 26°29' | 113°29' | IV-7 | 1315 | 1322 | 244 | 0-65 | 70 | 70 |
| 130.35 | 26°19' | 113°48.5' | IV-7 | 1606 | 1621 | 494 | 0-135 | 49 | 49 |
| 130.40 | 26°09' | 114°07.5' | IV-7 | 1916 | 1930 | 479 | 0-139 | 106 | 106 |
| 130.45 | 25°59' | 114°26.5' | IV-7 | 2341 | 2356 | 451 | 0-145 | 169 | 142 |
| 130.50 | 25°49' | 114°46' | IV-8 | 0217 | 0232 | 466 | 0-143 | 189 | 189 |
| 130.55 | 25°40' | 115°05' | IV-8 | 0541 | 0556 | 485 | 0-140 | 103 | 103 |
| 130.60 | 25°26' | 115°25' | IV-8 | 0804 | 0819 | 482 | 0-140 | 73 | 73 |
| 133.25 | 26°04.5' | 112°48' | IV-7 | 0748 | 0755 | 260 | 0-62 | 158 | 158 |
| 133.30 | 25°55.5' | 113°06.5' | IV-7 | 0421 | 0436 | 496 | 0-141 | 222 | 222 |
| 133.35 | 25°44' | 113°26.5' | IV-7 | 0151 | 0206 | 473 | 0-139 | 91 | 91 |
| 133.40 | 25°34.5' | 113°45.5' | IV-6 | 2221 | 2236 | 500 | 0-149 | 120 | 120 |
| 133.45 | 25°24.5' | 114°05' | IV-6 | 1953 | 2008 | 489 | 0-137 | 141 | 141 |
| 133.50 | 25°14.5' | 114°24' | IV-6 | 1629 | 1644 | 510 | 0-136 | 49 | 49 |
| 133.60 | 24°54.5' | 115°01.5' | IV-6 | 1104 | 1119 | 484 | 0-141 | 176 | 176 |
| 137.23 | 25°34.2' | 112°18.7' | IV-5 | 0849 | 0855 | 256 | 0-59 | 172 | 172 |
| 137.30 | 25°19.5' | 112°46' | IV-5 | 1228 | 1243 | 516 | 0-141 | 441 | 441 |
| 137.35 | 25°10' | 113°04.5' | IV-5 | 1549 | 1604 | 522 | 0-137 | 107 | 107 |
| 137.40 | 24°59' | 113°25.5' | IV-5 | 1819 | 1834 | 535 | 0-137 | 118 | 118 |
| 137.45 | 24°50' | 113°42.5' | IV-5 | 2124 | 2139 | 488 | 0-140 | 135 | 135 |
| 137.50 | 24°40' | 114°01.5' | IV-5 | 2346 | 0001 | 464 | 0-139 | 159 | 159 |
| 137.60 | 24°18' | 114°38.5' | IV-6 | 0506 | 0521 | 509 | 0-136 | 175 | 175 |

Plankton Volumes, Cruise 37, May 1952

| Sta. | Position | | 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. |
| 60.80 | 36°57' | 125°04' | V-21 | 0231 | 0245 | 512 | 0-142 | 141 | 141 |
| 60.90 | 36°37' | 125°47' | V-20 | 1431 | 1446 | 486 | 0-141 | 66 | 66 |
| 60.100 | 36°17' | 126°30' | V-20 | 0706 | 0721 | 489 | 0-139 | 245 | 245 |
| 63.52 | 37°19' | 122°36.2' | V-8 | 1913 | 1921 | 299 | 0-62 | 201 | 201 |
| 63.55 | 37°14' | 122°49.5' | V-8 | 2111 | 2126 | 477 | 0-145 | 514 | 514 |
| 63.60 | 37°03.5' | 123°10.7' | V-9 | 0011 | 0026 | 518 | 0-138 | 795 | 772 |
| 63.65 | 36°53' | 123°32' | V-9 | 0301 | 0316 | 571 | 0-127 | 329 | 329 |
| 67.50 | 36°49' | 122°04.6' | V-9 | 2033 | 2041 | 309 | 0-76 | 573 | 573 |
| 67.55 | 36°36' | 122°26' | V-9 | 1601 | 1616 | 439 | 0-138 | 403 | 403 |
| 67.65 | | | Occupied. Biological data lost. | | | | | | |
| 70.55 | 36°03' | 122°02' | V-18 | 1046 | 1101 | 493 | 0-139 | 272 | 272 |
| 70.60 | 35°53' | 122°23' | V-18 | 1526 | 1540 | 484 | 0-140 | 2873 | 2873 |
| 70.65 | 35°42.5' | 122°45' | V-18 | 1831 | 1846 | 491 | 0-139 | 348 | 348 |
| 70.70 | 35°33' | 123°06' | V-18 | 2051 | 2106 | 474 | 0-140 | 2213 | 2213 |
| 70.80 | 35°13' | 123°48' | V-19 | 0326 | 0341 | 524 | 0-130 | 65 | 65 |
| 70.90 | 34°53' | 124°30' | V-19 | 0916 | 0931 | 505 | 0-141 | 40 | 40 |
| 70.100 | 34°33' | 125°12' | V-19 | 1416 | 1430 | 484 | 0-142 | 74 | 50 |
| 73.50 | 35°37' | 121°16.6' | V-18 | 0433 | 0441 | 270 | 0-68 | 104 | 104 |
| 73.55 | 35°27.5' | 121°37' | V-18 | 0141 | 0156 | 492 | 0-141 | 451 | 451 |
| 73.60 | 35°18' | 121°58.4' | V-17 | 2141 | 2156 | 472 | 0-140 | 106 | 106 |
| 77.50 | 35°04.4' | 120°52' | V-17 | 0456 | 0511 | 504 | 0-136 | 461 | 461 |
| 77.55 | 34°54' | 121°15.5' | V-17 | 0817 | 0831 | 464 | 0-139 | 248 | 248 |
| 77.60 | 34°44' | 121°34' | V-17 | 1141 | 1155 | 486 | 0-141 | 97 | 97 |
| 77.65 | 34°34' | 121°55' | V-17 | 1421 | 1436 | 445 | 0-141 | 175 | 175 |
| 80.51 | 34°26.5' | 120°32.5' | V-15 | 1848 | 1856 | 284 | 0-70 | 85 | 85 |
| 80.55 | 34°19' | 120°48' | V-15 | 1536 | 1551 | 510 | 0-141 | 208 | 208 |
| 80.60 | 34°09' | 121°09' | V-15 | 0751 | 0806 | 572 | 0-137 | 136 | 136 |
| 80.70 | 33°49' | 121°51' | V-14 | 1657 | 1711 | 510 | 0-132 | 18 | 18 |
| 80.80 | 33°29' | 122°32' | V-13 | 2256 | 2311 | 536 | 0-132 | 116 | 106 |
| 80.85 | 33°19' | 122°53' | V-13 | 2011 | 2026 | 494 | 0-142 | 142 | 142 |
| 80.90 | 33°09' | 123°13' | V-13 | 1626 | 1641 | 514 | 0-137 | 80 | 80 |
| 80.100 | 32°49' | 123°54' | V-13 | 1041 | 1056 | 527 | 0-142 | 66 | 66 |
| 83.43 | 34°08' | 119°34' | V-11 | 1631 | 1645 | 512 | 0-137 | 594 | 594 |
| 83.55 | 33°44' | 120°24.5' | V-12 | 0026 | 0041 | 450 | 0-142 | 205 | 205 |
| 83.60 | 33°34' | 120°45' | V-12 | 0656 | 0712 | 543 | 0-140 | 280 | 280 |
| 83.65 | 33°24' | 121°05' | V-12 | 1131 | 1146 | 473 | 0-132 | 338 | 338 |
| 83.70 | 33°14.5' | 121°26' | V-12 | 1401 | 1416 | 479 | 0-139 | 203 | 203 |
| 83.75 | 33°04' | 121°47' | V-12 | 1751 | 1806 | 508 | 0-148 | 43 | 43 |
| 83.80 | 32°54.5' | 122°07.5' | V-12 | 2026 | 2041 | 501 | 0-137 | 92 | 92 |
| 83.85 | 32°44' | 122°28' | V-13 | 0011 | 0026 | 503 | 0-136 | 70 | 70 |
| 83.90 | 32°34.5' | 122°48' | V-13 | 0241 | 0256 | 501 | 0-140 | 118 | 84 |
| 87.35 | 33°48.9' | 118°37.3' | V-9 | 0556 | 0611 | 479 | 0-141 | 134 | 134 |
| 87.40 | 33°40' | 118°58' | V-9 | 0941 | 0956 | 464 | 0-142 | 60 | 60 |
| 87.45 | 33°30' | 119°18.8' | V-9 | 1216 | 1231 | 480 | 0-145 | 129 | 129 |
| 87.50 | 33°20.6' | 119°40.5' | V-9 | 1517 | 1530 | 340 | 0-54 | 276 | 276 |
| 87.55 | 33°11' | 119°59.9' | V-9 | 1805 | 1822 | 461 | 0-143 | 238 | 238 |
| 87.60 | 32°58' | 120°18' | V-9 | 2206 | 2221 | 503 | 0-132 | 262 | 262 |

Plankton Volumes, Cruise 37, May 1952 (cont'd)

| Sta. | Position | | 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. |
| 87.65 | 32°49' | 120°14.2' | V-10 | 0106 | 0121 | 462 | 0-142 | 450 | 450 |
| 87.70 | 32°39.5' | 121°02' | V-10 | 0451 | 0506 | 360 | 0-156 | 527 | 505 |
| 87.75 | 32°30' | 121°23' | V-10 | 0720 | 0736 | 484 | 0-140 | 161 | 161 |
| 87.80 | 32°17' | 121°44.6' | V-10 | 1136 | 1151 | 538 | 0-133 | 60 | 60 |
| 90.28 | 33°27.7' | 117°48' | V-12 | 1400 | 1416 | 521 | 0-133 | 80 | 80 |
| 90.30 | 33°24.5' | 117°55' | V-12 | 1206 | 1221 | 538 | 0-117 | 85 | 85 |
| 90.37 | 33°12' | 118°22' | V-12 | 0821 | 0831 | 415 | 0-131 | 125 | 125 |
| 90.45 | 32°54.5' | 118°56' | V-12 | 0336 | 0353 | 605 | 0-142 | 185 | 185 |
| 90.53 | 32°38' | 119°25' | V-11 | 2215 | 2232 | 418 | 0-122 | 220 | 220 |
| 90.60 | 32°24.8' | 119°56.1' | V-11 | 1711 | 1726 | 485 | 0-132 | 68 | 68 |
| 90.65 | 32°08.9' | 120°24' | V-11 | 1250 | 1306 | 466 | 0-142 | 43 | 43 |
| 90.70 | Occupied. Biological data lost | | | | | | | | |
| 90.75 | 31°54.6' | 120°58.9' | V-11 | 0456 | 0511 | 476 | 0-141 | 36 | 36 |
| 90.80 | 31°45' | 121°19' | V-11 | 0206 | 0223 | 489 | 0-141 | 75 | 75 |
| 90.90 | 31°25' | 121°59' | V-10 | 1936 | 1952 | 509 | 0-134 | 110 | 110 |
| 93.27 | 32°56' | 117°20' | V-13 | 2021 | 2036 | 525 | 0-136 | 124 | 124 |
| 93.30 | 32°49.8' | 117°32.2' | V-13 | 2256 | 2310 | 461 | 0-148 | 104 | 104 |
| 93.35 | 32°40.2' | 117°52.5' | V-14 | 0151 | 0206 | 468 | 0-153 | 231 | 231 |
| 93.40 | 32°30.9' | 118°13.4' | V-14 | 0536 | 0550 | 439 | 0-148 | 98 | 98 |
| 93.45 | 32°18.5' | 118°31.5' | V-14 | 0841 | 0855 | 445 | 0-144 | 106 | 106 |
| 93.50 | 32°09.3' | 118°47.1' | V-14 | 1236 | 1250 | 476 | 0-151 | 116 | 116 |
| 93.55 | 32°00' | 119°11.3' | V-14 | 1601 | 1616 | 480 | 0-139 | 160 | 160 |
| 93.60 | 31°51.4' | 119°35.4' | V-14 | 2056 | 2111 | 450 | 0-147 | 189 | 189 |
| 93.65 | 31°32' | 119°55.5' | V-14 | 2356 | 0010 | 437 | 0-142 | 50 | 50 |
| 93.70 | 31°27.9' | 120°17.8' | V-15 | 0352 | 0405 | 477 | 0-143 | 29 | 29 |
| 93.75 | 31°16.7' | 120°32' | V-15 | 0631 | 0645 | 454 | 0-145 | 60 | 60 |
| 93.80 | 31°05.6' | 120°58.1' | V-15 | 0950 | 1004 | 452 | 0-144 | 33 | 33 |
| 97.30 | 32°15.1' | 117°08.4' | V-17 | 0634 | 0639 | 124 | 0-21 | 916 | 916 |
| 97.35 | 32°05.8' | 117°30' | V-17 | 0331 | 0345 | 370 | 0-136 | 284 | 284 |
| 97.40 | 31°55.5' | 117°50' | V-17 | 0101 | 0115 | 449 | 0-141 | 210 | 210 |
| 97.45 | 31°46.5' | 118°09' | V-16 | 2111 | 2125 | 489 | 0-131 | 190 | 190 |
| 97.50 | 31°35.4' | 118°30.3' | V-16 | 1826 | 1840 | 485 | 0-139 | 56 | 56 |
| 97.55 | 31°25.5' | 118°50' | V-16 | 1431 | 1445 | 404 | 0-141 | 62 | 62 |
| 97.60 | 31°15.9' | 119°10.7' | V-16 | 1143 | 1158 | 350 | 0-145 | 46 | 46 |
| 97.65 | 31°07.8' | 119°26' | V-16 | 0831 | 0846 | 352 | 0-140 | 68 | 51 |
| 97.70 | 30°57' | 119°47.6' | V-16 | 0606 | 0620 | 365 | 0-139 | 63 | 63 |
| 97.75 | 30°46' | 120°09' | V-16 | 0200 | 0215 | 478 | 0-138 | 54 | 54 |
| 97.80 | 30°36.9' | 120°29' | V-15 | 2316 | 2330 | 415 | 0-151 | 65 | 65 |
| 97.90 | 30°16.3' | 121°11.5' | V-15 | 1656 | 1711 | 492 | 0-139 | 49 | 49 |
| 100.29 | 31°42.2' | 116°43.5' | V-20 | 2326 | 2344 | 534 | 0-94 | 521 | 521 |
| 100.30 | 31°41' | 116°46.5' | V-20 | 0110 | 0126 | 558 | 0-132 | 430 | 430 |
| 100.40 | 31°23' | 117°26' | V-20 | 0726 | 0741 | 512 | 0-130 | 43 | 43 |
| 100.45 | 31°13' | 117°47' | V-20 | 1006 | 1021 | 566 | 0-134 | 67 | 67 |
| 100.50 | 31°05' | 118°07' | V-20 | 1501 | 1516 | 542 | 0-124 | 85 | 85 |
| 100.55 | 30°54' | 118°29' | V-20 | 1751 | 1806 | 383 | 0-133 | 76 | 76 |
| 100.60 | 30°46' | 118°48' | V-20 | 2136 | 2151 | 455 | 0-136 | 114 | 114 |
| 100.65 | 30°35' | 119°03' | V-21 | 0039 | 0056 | 346 | 0-168 | 121 | 121 |

Plankton Volumes, Cruise 37, May 1952 (cont'd)

| Sta. | Position | | (1952) 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°26' | 119°17' | V-21 | 0438 | 0456 | 529 | 0-137 | 8 | 8 |
| 100.75 | 30°13' | 119°36' | V-21 | 0724 | 0741 | 615 | 0-119 | 24 | 24 |
| 100.80 | 29°48.5' | 120°12' | V-21 | 1304 | 1320 | 546 | 0-126 | 44 | 44 |
| 100.90 | 29°40.5' | 120°47' | V-21 | 1854 | 1910 | 484 | 0-143 | 43 | 43 |
| 103.30 | 31°00' | 116°25.2' | V-23 | 2103 | 2112 | 306 | 0-41 | 955 | 955 |
| 103.35 | 30°37' | 116°49' | V-23 | 1559 | 1615 | 510 | 0-145 | 75 | 75 |
| 103.40 | 30°29' | 117°10' | V-23 | 1229 | 1246 | 540 | 0-144 | 248 | 248 |
| 103.45 | 30°22' | 117°29' | V-23 | 0849 | 0906 | 594 | 0-134 | 94 | 94 |
| 103.50 | 30°14' | 117°50' | V-23 | 0514 | 0531 | 476 | 0-135 | 88 | 88 |
| 103.60 | 30°00' | 118°28' | V-22 | 2153 | 2210 | 472 | 0-140 | 61 | 61 |
| 103.65 | 29°53' | 118°48' | V-22 | 1724 | 1741 | 532 | 0-141 | 51 | 51 |
| 103.70 | 29°45' | 119°06.5' | V-22 | 1439 | 1455 | 471 | 0-149 | 55 | 55 |
| 103.75 | 29°29' | 119°20' | V-22 | 1054 | 1111 | 545 | 0-131 | 35 | 35 |
| 103.80 | 29°26' | 119°42' | V-22 | 0754 | 0811 | 575 | 0-131 | 33 | 33 |
| 103.90 | 29°06' | 120°25' | V-22 | 0132 | 0151 | 515 | 0-146 | 70 | 70 |
| 107.32 | 30°25.9' | 116°11' | V-24 | 0214 | 0231 | 606 | 0-129 | 317 | 317 |
| 107.35 | 30°20' | 116°23' | V-24 | 0454 | 0511 | 614 | 0-133 | 346 | 346 |
| 107.40 | 30°10.8' | 116°43.5' | V-24 | 0829 | 0845 | 564 | 0-138 | 99 | 99 |
| 107.45 | 30°02' | 117°03' | V-24 | 1119 | 1136 | 615 | 0-135 | 57 | 57 |
| 107.50 | 29°51' | 117°21' | V-24 | 1509 | 1526 | 398 | 0-137 | 85 | 85 |
| 107.60 | 29°31' | 118°00' | V-24 | 2123 | 2141 | 521 | 0-134 | 88 | 88 |
| 107.70 | 29°11.2' | 118°43' | V-25 | 1724 | 1741 | 541 | 0-143 | 68 | 68 |
| 107.80 | 28°52.5' | 119°20.5' | V-25 | 2333 | 2351 | 530 | 0-143 | 57 | 57 |
| 110.33 | 29°50' | 115°53.5' | V-25 | 0628 | 0641 | 362 | 0-72 | 83 | 83 |
| 110.35 | 29°46.2' | 116°00.5' | V-25 | 0456 | 0511 | 435 | 0-141 | 166 | 166 |
| 110.40 | 29°37' | 116°20' | V-25 | 0131 | 0146 | 472 | 0-132 | 318 | 318 |
| 110.45 | 29°27' | 116°39' | V-24 | 2231 | 2246 | 290 | 0-143 | 117 | 117 |
| 110.50 | 29°16.5' | 116°59' | V-24 | 2011 | 2026 | 385 | 0-143 | 67 | 67 |
| 110.60 | 28°56' | 117°39' | V-24 | 1436 | 1451 | 468 | 0-138 | 94 | 94 |
| 110.70 | 28°36' | 118°18' | V-24 | 0911 | 0926 | 415 | 0-144 | 101 | 101 |
| 110.80 | 28°16' | 118°57' | V-24 | 0346 | 0401 | 459 | 0-141 | 87 | 87 |
| 110.90 | 28°01' | 119°36' | V-23 | 2306 | 2321 | 491 | 0-134 | 61 | 61 |
| 113.30 | 29°22.4' | 115°17.6' | V-22 | 1728 | 1736 | 259 | 0-42 | 440 | 440 |
| 113.35 | 29°12.5' | 115°37' | V-22 | 1931 | 1946 | 447 | 0-142 | 103 | 103 |
| 113.40 | 28°58.5' | 116°02.5' | V-22 | 2256 | 2311 | 456 | 0-140 | 96 | 96 |
| 113.45 | 28°50' | 116°21' | V-23 | 0110 | 0126 | 524 | 0-133 | 111 | 111 |
| 113.50 | 28°36' | 116°34' | V-23 | 0406 | 0421 | 438 | 0-139 | 68 | 68 |
| 113.55 | 28°21' | 116°58.5' | V-23 | 0616 | 0631 | 453 | 0-141 | 88 | 88 |
| 113.60 | 28°22' | 117°17' | V-23 | 0916 | 0931 | 453 | 0-142 | 62 | 62 |
| 113.65 | 28°13' | 117°37' | V-23 | 1116 | 1131 | 424 | 0-139 | 57 | 57 |
| 113.70 | 28°04' | 117°56' | V-23 | 1356 | 1410 | 444 | 0-142 | 68 | 68 |
| 117.26 | 28°56' | 114°41' | V-22 | 1319 | 1327 | 280 | 0-42 | 200 | 200 |
| 117.30 | 28°48' | 114°57' | V-22 | 1111 | 1125 | 406 | 0-72 | 148 | 148 |
| 117.35 | 28°37' | 115°17.5' | V-22 | 0836 | 0851 | 457 | 0-140 | 96 | 96 |
| 117.40 | 28°28' | 115°37.6' | V-22 | 0726 | 0741 | 481 | 0-138 | 129 | 129 |
| 117.45 | 28°18' | 115°55' | V-22 | 0321 | 0336 | 591 | 0-129 | 58 | 58 |
| 117.50 | 27°55' | 116°24' | V-22 | 0056 | 0111 | 516 | 0-135 | 70 | 70 |

Plankton Volumes, Cruise 37, May 1952 (cont'd)

| Sta. | Position | | (1952) 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. |
| 117.55 | 27°27.2' | 116°33' | V-21 | 1941 | 1955 | 431 | 0-156 | 79 | 79 |
| 117.60 | 27°15' | 116°57' | V-21 | 1731 | 1747 | 533 | 0-139 | 47 | 47 |
| 117.65 | 27°15.2' | 117°20.2' | V-21 | 1441 | 1456 | 476 | 0-144 | 78 | 78 |
| 117.70 | 27°15' | 117°42' | V-21 | 1241 | 1256 | 429 | 0-145 | 65 | 65 |
| 120.25 | 28°24' | 114°16' | V-19 | 2038 | 2046 | 228 | 0-44 | 132 | 132 |
| 120.30 | 28°13' | 114°33.5' | V-19 | 2228 | 2241 | 366 | 0-72 | 295 | 295 |
| 120.35 | 28°03' | 114°54.5' | V-20 | 0103 | 0114 | 349 | 0-53 | 109 | 109 |
| 120.40 | 27°55' | 115°17' | V-20 | 0304 | 0312 | 297 | 0-39 | 114 | 114 |
| 120.45 | 27°43.6' | 115°33.2' | V-20 | 0551 | 0605 | 438 | 0-143 | 46 | 46 |
| 120.50 | 27°31' | 115°56' | V-20 | 0926 | 0941 | 455 | 0-141 | 110 | 110 |
| 120.55 | 27°21' | 116°14' | V-20 | 1116 | 1131 | 499 | 0-130 | 40 | 40 |
| 120.60 | 27°15' | 116°32' | V-20 | 1426 | 1441 | 468 | 0-134 | 68 | 68 |
| 120.65 | 27°03' | 116°51.9' | V-20 | 1636 | 1651 | 488 | 0-135 | 57 | 57 |
| 120.70 | 26°52.5' | 117°11' | V-20 | 1906 | 1921 | 428 | 0-145 | 82 | 82 |
| 120.80 | 26°32' | 117°48' | V-21 | 0000 | 0016 | 538 | 0-126 | 71 | 71 |
| 120.90 | 26°13' | 118°28' | V-21 | 0426 | 0441 | 481 | 0-141 | 25 | 25 |
| 123.37 | 27°24' | 114°40' | V-19 | 0014 | 0022 | 279 | 0-36 | 718 | 718 |
| 123.40 | 27°18' | 114°51' | V-18 | 2211 | 2225 | 466 | 0-146 | 107 | 107 |
| 123.45 | 27°08' | 115°04' | V-18 | 1911 | 1926 | 379 | 0-155 | 90 | 90 |
| 123.50 | 26°58' | 115°30.5' | V-18 | 1721 | 1736 | 462 | 0-136 | 52 | 52 |
| 123.55 | 26°48' | 115°50' | V-18 | 1416 | 1432 | 520 | 0-135 | 29 | 29 |
| 123.60 | 26°40' | 116°14' | V-18 | 1141 | 1156 | 454 | 0-141 | 29 | 29 |
| 127.34 | 26°55.3' | 114°06' | V-17 | 1627 | 1638 | 364 | 0-54 | 454 | 454 |
| 127.40 | 26°42.8' | 114°31.3' | V-17 | 1946 | 2001 | 448 | 0-145 | 178 | 178 |
| 127.45 | 26°33' | 114°50' | V-17 | 2156 | 2211 | 428 | 0-144 | 98 | 98 |
| 127.50 | 26°24' | 115°08' | V-18 | 0121 | 0137 | 434 | 0-138 | 92 | 92 |
| 127.55 | 26°14' | 115°28' | V-18 | 0326 | 0342 | 494 | 0-134 | 36 | 36 |
| 127.60 | 26°03.5' | 115°46.5' | V-18 | 0616 | 0631 | 442 | 0-143 | 145 | 145 |
| 130.30 | 26°29' | 113°30' | V-17 | 1147 | 1158 | 402 | 0-57 | 397 | 397 |
| 130.35 | 26°19.5' | 113°48.5' | V-17 | 0941 | 0956 | 444 | 0-145 | 113 | 113 |
| 130.40 | 26°01' | 114°23' | V-17 | 0526 | 0541 | 474 | 0-128 | 122 | 122 |
| 130.45 | 25°58' | 114°26' | V-17 | 0126 | 0141 | 483 | 0-131 | 93 | 93 |
| 130.50 | 25°38' | 115°05' | V-16 | 2256 | 2311 | 495 | 0-141 | 109 | 109 |
| 130.55 | 25°28' | 115°26' | V-16 | 1936 | 1951 | 441 | 0-140 | 181 | 181 |
| 130.60 | 25°17' | 115°48' | V-16 | 1641 | 1655 | 473 | 0-135 | 34 | 34 |
| 133.25 | 26°05' | 112°48' | V-15 | 1708 | 1716 | 292 | 0-40 | 48 | 48 |
| 133.30 | 25°54.5' | 113°07.5' | V-15 | 2001 | 2016 | 535 | 0-134 | 800 | 800 |
| 133.35 | 25°49' | 113°28' | V-15 | 2236 | 2251 | 487 | 0-125 | 82 | 82 |
| 133.40 | 25°34.5' | 113°45' | V-16 | 0241 | 0256 | 495 | 0-132 | 170 | 170 |
| 133.45 | 25°23.9' | 114°04.5' | V-16 | 0511 | 0526 | 522 | 0-115 | 73 | 73 |
| 133.50 | 25°14.5' | 114°24' | V-16 | 0826 | 0841 | 520 | 0-136 | 92 | 92 |
| 137.23 | 25°35' | 112°19' | V-15 | 1232 | 1242 | 325 | 0-36 | 31 | 31 |
| 137.30 | 25°07' | 112°47' | V-15 | 0746 | 0801 | 581 | 0-128 | 58 | 58 |
| 137.35 | 25°07' | 113°04.2' | V-15 | 0416 | 0431 | 598 | 0-116 | 120 | 120 |
| 137.40 | 24°53' | 113°25' | V-15 | 0206 | 0221 | 514 | 0-128 | 97 | 97 |
| 137.45 | 24°50' | 113°43' | V-14 | 2251 | 2308 | 601 | 0-137 | 80 | 80 |
| 137.50 | 24°40' | 114°01.5' | V-14 | 2036 | 2051 | 512 | 0-133 | 62 | 62 |

Plankton Volumes, Cruise 38, June 1952

| Sta. | Position | | Time (PST) | | Vol. water strained C.M. | Depth of haul in meters | Vol. per 1000 C.M. strained | | |
|--------|----------|-----------|-----------------------------------|-------|--------------------------|-------------------------|-----------------------------|-----------|-------------|
| | N. lat. | W. long. | (1952) Date | Start | | | End | Total cc. | Sm.org. cc. |
| 50.50 | 39°40.5' | 124°09' | VI-16 | 0007 | 0020 | 564 | 0-118 | 652 | 652 |
| 50.60 | | | Occupied. Sample not quantitative | | | | | | |
| 50.70 | | | Not occupied | | | | | | |
| 50.80 | | | Not occupied | | | | | | |
| 50.90 | | | Not occupied | | | | | | |
| 50.100 | | | Not occupied | | | | | | |
| 53.52 | 39°02' | 123°51.1' | VI-15 | 1628 | 1638 | 320 | 0-55 | 275 | 275 |
| 53.55 | 38°56' | 124°04' | VI-15 | 1406 | 1421 | 543 | 0-104 | 508 | 508 |
| 53.65 | 38°34' | 124°55' | VI-15 | 0906 | 0920 | 418 | 0-147 | 856 | 842 |
| 57.51 | 28°29.8' | 123°22.5' | VI-14 | 1703 | 1715 | 489 | 0-126 | 753 | 753 |
| 57.55 | 38°22.1' | 123°39.5' | VI-14 | 2002 | 2015 | 549 | 0-61 | 536 | 523 |
| 57.65 | 38°02.1' | 124°25' | VI-15 | 0216 | 0231 | 560 | 0-112 | 520 | 507 |
| 60.55 | 37°48.9' | 123°19.8' | VI-13 | 0323 | 0334 | 300 | 0-59 | 854 | 854 |
| 60.60 | 37°33.7' | 123°33' | VI-13 | 0056 | 0111 | 494 | 0-145 | 575 | 575 |
| 60.65 | 37°25' | 124°00' | VI-12 | 2106 | 2121 | 460 | 0-140 | 517 | 517 |
| 60.70 | 37°18.9' | 124°22.1' | VI-12 | 1856 | 1911 | 481 | 0-140 | 351 | 351 |
| 60.80 | | | Occupied. Sample not quantitative | | | | | | |
| 60.90 | 36°38.3' | 125°49.9' | VI-12 | 0956 | 1011 | 487 | 0-138 | 115 | 78 |
| 60.100 | 36°15.4' | 126°25.2' | VI-12 | 0541 | 0556 | 454 | 0-145 | 104 | 68 |
| 63.52 | 37°19.5' | 122°36.2' | VI-17 | 0643 | 0653 | 327 | 0-56 | 407 | 389 |
| 63.55 | 37°14' | 122°49.5' | VI-17 | 0446 | 0500 | 494 | 0-131 | 277 | 190 |
| 63.60 | 37°03.5' | 123°10.5' | VI-17 | 0126 | 0141 | (478) | 0-138 | 557 | 486 |
| 63.65 | 36°50' | 123°48' | VI-16 | 2131 | 2146 | (479) | 0-135 | 238 | 205 |
| 67.50 | 36°49' | 122°05' | VI-17 | 1108 | 1119 | 312 | 0-55 | 276 | 276 |
| 67.55 | 36°39' | 122°26' | VI-17 | 1406 | 1421 | 507 | 0-137 | 272 | 272 |
| 67.60 | 36°29' | 122°47.5' | VI-17 | 1616 | 1630 | 366 | 0-140 | 1094 | 1094 |
| 67.65 | 36°19' | 123°09' | VI-17 | 1916 | 1930 | 359 | 0-129 | 870 | 870 |
| 70.55 | 36°03' | 122°02' | VI-10 | 1736 | 1751 | 555 | 0-114 | 653 | 591 |
| 70.60 | 35°54' | 122°27' | VI-10 | 2110 | 2125 | 443 | 0-141 | 478 | 478 |
| 70.65 | 35°43.5' | 122°54' | VI-10 | 2331 | 2346 | 477 | 0-134 | 520 | 520 |
| 70.70 | 35°33' | 123°21' | VI-11 | 0406 | 0421 | 465 | 0-146 | 475 | 452 |
| 70.75 | 35°25' | 123°43' | VI-11 | 0631 | 0646 | 455 | 0-141 | 637 | 553 |
| 70.80 | 35°22' | 123°50' | VI-11 | 0816 | 0830 | 427 | 0-136 | 537 | 446 |
| 70.90 | 35°00' | 124°34' | VI-11 | 1311 | 1326 | 486 | 0-127 | 62 | 62 |
| 70.100 | 34°37' | 125°05' | VI-11 | 1726 | 1741 | 502 | 0-135 | 68 | 68 |
| 73.50 | 35°37' | 121°16.6' | VI-10 | 1128 | 1141 | 389 | 0-70 | 198 | 198 |
| 73.55 | 35°27.5' | 121°37.5' | VI-10 | 0906 | 0921 | 469 | 0-137 | 290 | 290 |
| 73.60 | | | Occupied. Sample not quantitative | | | | | | |
| 77.50 | 35°04.4' | 120°52' | VI-9 | 1723 | 1735 | 337 | 0-70 | 243 | 243 |
| 77.55 | 34°54.8' | 121°12.2' | VI-9 | 2016 | 2031 | 436 | 0-140 | 514 | 514 |
| 77.60 | 34°44.5' | 121°33' | VI-9 | 2231 | 2246 | 460 | 0-140 | 1149 | 1121 |

Plankton Volumes, Cruise 38, June 1952 (cont'd)

| Stn. | Position | | Time (PST) (1952) Date | Vol. water strained | | Depth of haul in meters | Vol. per 1000 C.M. strained Total Sm.org. | | |
|--------|----------|-----------|------------------------------|---------------------------|------|-------------------------------|---|-----|-----|
| | N. lat. | W. long. | | Start | End | | C.M. | cc. | cc. |
| 80.51 | 34°26.3' | 120°33.6' | VI-9 | 1258 | 1309 | 374 | 0-63 | 337 | 337 |
| 80.55 | 34°17' | 120°46' | VI-9 | 1121 | 1135 | 501 | 0-136 | 188 | 188 |
| 80.60 | 34°03' | 121°08' | VI-9 | 0826 | 0841 | 488 | 0-141 | 223 | 223 |
| 80.65 | 33°56.6' | 121°28' | VI-9 | 0531 | 0546 | 437 | 0-139 | 334 | 334 |
| 80.70 | 39°49' | 121°51' | VI-9 | 0326 | 0341 | 483 | 0-141 | 560 | 560 |
| 80.80 | 33°29' | 122°32' | VI-8 | 2216 | 2231 | (498) | 0-126 | 58 | 58 |
| 80.90 | 33°09' | 123°13' | VI-8 | 1656 | 1711 | (490) | 0-130 | 31 | 31 |
| 80.100 | 32°49.3' | 123°54.2' | VI-8 | 1241 | 1256 | 484 | 0-137 | 64 | 64 |
| 83.43 | 34°08' | 119°34' | VI-6 | 1136 | 1150 | 553 | 0-133 | 177 | 177 |
| 83.55 | 33°44' | 120°24.5' | VI-7 | 0841 | 0856 | 531 | 0-133 | 516 | 516 |
| 83.60 | 33°31' | 120°43' | VI-7 | 1206 | 1221 | 599 | 0-105 | 319 | 304 |
| 83.70 | 33°14.5' | 121°26' | VI-7 | 1746 | 1800 | 476 | 0-140 | 273 | 273 |
| 83.75 | 33°06' | 121°46' | VI-7 | 2011 | 2026 | 517 | 0-135 | 608 | 608 |
| 83.80 | 32°54' | 122°08' | VI-8 | 0006 | 0021 | 595 | 0-126 | 187 | 187 |
| 83.90 | 32°35.6' | 122°51.9' | VI-8 | 0620 | 0634 | 460 | 0-127 | 59 | 59 |
| 87.35 | 33°50' | 118°37.5' | VI-3 | 0814 | 0830 | 541 | 0-106 | 55 | 55 |
| 87.40 | 33°40' | 118°58.5' | VI-3 | 1155 | 1209 | 497 | 0-120 | 54 | 54 |
| 87.45 | 33°29.7' | 119°18.7' | VI-3 | 1535 | 1550 | 511 | 0-124 | 145 | 145 |
| 87.50 | 33°20' | 119°39.5' | VI-3 | 1833 | 1839 | 207 | 0-33 | 498 | 498 |
| 87.55 | 33°10.2' | 120°00.2' | VI-3 | 2113 | 2129 | 467 | 0-127 | 285 | 285 |
| 87.60 | 32°57.5' | 120°20' | VI-3 | 2356 | 0010 | 391 | 0-129 | 655 | 655 |
| 87.70 | 32°39.5' | 121°02' | VI-4 | 0611 | 0624 | 228 | 0-127 | 593 | 475 |
| 87.80 | 32°12' | 121°43' | VI-4 | 1207 | 1219 | 418 | 0-120 | 124 | 124 |
| 90.28 | 33°28.5' | 117°46.5' | VI-6 | 1629 | 1636 | 274 | 0-32 | 742 | 742 |
| 90.30 | 33°24.5' | 117°55' | VI-6 | 1328 | 1340 | 379 | 0-72 | 237 | 237 |
| 90.37 | 33°11.5' | 118°23.5' | VI-6 | 0922 | 0935 | 440 | 0-120 | 132 | 132 |
| 90.45 | 32°55.5' | 118°56.5' | VI-6 | 0456 | 0510 | 385 | 0-129 | 646 | 646 |
| 90.53 | 32°39.5' | 119°30' | VI-6 | 0001 | 0014 | 412 | 0-125 | 354 | 354 |
| 90.60 | 32°25.5' | 119°59.5' | VI-5 | 1946 | 2000 | 373 | 0-138 | 177 | 158 |
| 90.65 | 32°14' | 120°18' | VI-5 | 1731 | 1744 | 386 | 0-130 | 57 | 57 |
| 90.70 | 32°04.5' | 120°39' | VI-5 | 1410 | 1424 | 399 | 0-126 | 50 | 50 |
| 90.80 | 31°48.5' | 121°14' | VI-5 | 0920 | 0934 | 433 | 0-124 | 60 | 60 |
| 90.90 | 31°25' | 121°59' | VI-5 | 0414 | 0429 | 448 | 0-128 | 76 | 76 |
| 90.100 | 31°04.5' | 122°40' | VI-4 | 2135 | 2150 | 441 | 0-122 | 50 | 50 |
| 93.27 | 32°56' | 117°19.2' | VI-6 | 2048 | 2056 | 247 | 0-65 | 418 | 418 |
| 93.30 | 32°50' | 117°31.5' | VI-6 | 2251 | 2304 | 407 | 0-128 | 211 | 211 |
| 93.35 | 32°40' | 117°52' | VI-7 | 0206 | 0220 | 389 | 0-125 | 334 | 334 |
| 93.40 | 32°30' | 118°12.5' | VI-7 | 0431 | 0445 | 376 | 0-132 | 221 | 221 |
| 93.45 | 32°20' | 118°33' | VI-7 | 0806 | 0819 | 366 | 0-129 | 426 | 426 |
| 93.50 | 32°10' | 118°53.5' | VI-7 | 1006 | 1019 | 356 | 0-135 | 673 | 673 |
| 93.55 | 31°59' | 119°13' | VI-7 | 1315 | 1330 | 387 | 0-136 | 284 | 258 |

Plankton Volumes, Cruise 38, June 1952 (cont'd)

| Sta. | Position | | Date | Time (PST) | | Vol. water strained | Depth of haul in meters | Vol. per 1000 C.M. strained | |
|---------|----------|-----------|--------------------------|------------|------|---------------------|-------------------------|-----------------------------|-------|
| | N. Lat. | W. Long. | | Start | End | | | C.M. | Total |
| 93.60 | 31°48.5' | 119°32' | VI-7 | 1536 | 1549 | 361 | 0-132 | 64 | 64 |
| 93.65 | 31°37' | 119°53' | VI-7 | 1841 | 1854 | 405 | 0-132 | 81 | 67 |
| 93.70 | 31°27.5' | 120°13' | VI-7 | 2051 | 2104 | 381 | 0-134 | 66 | 66 |
| 93.80 | 31°07' | 120°53' | VI-8 | 0205 | 0219 | 362 | 0-138 | 135 | 61 |
| 97.30 | 32°15.5' | 117°09' | VI-9 | 1813 | 1820 | 196 | 0-38 | 424 | 424 |
| 97.32 | | | Occupied. Sample spoiled | | | | | | |
| 97.36 | 32°05' | 117°33' | VI-9 | 1436 | 1450 | 427 | 0-121 | 262 | 262 |
| 97.40 | 31°57' | 117°48' | VI-9 | 1227 | 1240 | 396 | 0-122 | 139 | 139 |
| 97.45 | 31°46' | 118°10' | VI-9 | 0956 | 1010 | 418 | 0-122 | 289 | 289 |
| 97.50 | 31°35.5' | 118°30.5' | VI-9 | 0642 | 0654 | 370 | 0-124 | 224 | 224 |
| 97.55 | 31°25.5' | 118°51' | VI-9 | 0357 | 0409 | 402 | 0-123 | 184 | 184 |
| 97.60 | 31°15.5' | 119°10.5' | VI-8 | 2346 | 0000 | 390 | 0-127 | 166 | 166 |
| 97.65 | 31°05' | 119°31' | VI-8 | 2126 | 2139 | 393 | 0-124 | 214 | 214 |
| 97.70 | 30°53' | 119°50.5' | VI-8 | 1821 | 1834 | 402 | 0-128 | 60 | 60 |
| 97.80 | 30°35' | 120°31' | VI-8 | 1326 | 1339 | 404 | 0-122 | 59 | 59 |
| 97.90 | 30°11' | 120°55' | VI-8 | 0826 | 0839 | 370 | 0-124 | 86 | 86 |
| 100.29 | 31°42.2' | 116°43.4' | VI-9 | 2329 | 2336 | 229 | 0-42 | 1467 | 1467 |
| 100.30 | 31°40.5' | 116°46.5' | VI-10 | 0029 | 0045 | 341 | 0-157 | 396 | 396 |
| 100.35 | 31°31' | 117°07' | VI-10 | 0326 | 0339 | 444 | 0-122 | 189 | 189 |
| 100.40 | 31°21' | 117°27' | VI-10 | 0607 | 0619 | 315 | 0-144 | 159 | 159 |
| 100.45 | 31°09' | 117°50' | VI-10 | 0917 | 0930 | 357 | 0-126 | 292 | 292 |
| 100.50 | 31°01' | 118°07' | VI-10 | 1110 | 1124 | 385 | 0-124 | 221 | 221 |
| 100.55 | 30°51' | 118°28' | VI-10 | 1505 | 1519 | 396 | 0-131 | 109 | 109 |
| 100.60 | 30°41' | 118°47.5' | VI-10 | 1707 | 1719 | 399 | 0-121 | 206 | 206 |
| 100.65 | 30°31' | 119°06' | VI-10 | 2036 | 2050 | 364 | 0-136 | 121 | 121 |
| 100.70 | 30°19.5' | 119°27' | VI-10 | 2253 | 2309 | 445 | 0-135 | 103 | 103 |
| 100.80 | 29°58.5' | 120°07' | VI-11 | 0437 | 0450 | 370 | 0-128 | 65 | 65 |
| 100.90 | 29°36' | 120°48' | VI-11 | 1042 | 1055 | 352 | 0-131 | 60 | 60 |
| 100.100 | 29°20.5' | 121°27' | VI-11 | 1601 | 1614 | 382 | 0-127 | 34 | 34 |
| 103.30 | 31°05.2' | 116°25' | VI-13 | 0814 | 0821 | 250 | 0-40 | 608 | 608 |
| 103.35 | 30°55.5' | 116°45' | VI-13 | 0506 | 0520 | 483 | 0-113 | 267 | 267 |
| 103.40 | | | Not occupied | | | | | | |
| 103.50 | | | Not occupied | | | | | | |
| 103.55 | 30°16' | 118°05' | VI-12 | 1952 | 2005 | 352 | 0-133 | 150 | 150 |
| 103.60 | | | Occupied. Sample lost | | | | | | |
| 103.65 | 29°56.5' | 118°45.5' | VI-12 | 1357 | 1409 | 356 | 0-130 | 59 | 59 |
| 103.70 | 29°48.5' | 119°04' | VI-12 | 1015 | 1029 | 397 | 0-125 | 48 | 48 |
| 103.75 | 29°36' | 119°26' | VI-12 | 0726 | 0740 | 420 | 0-122 | 40 | 40 |
| 103.80 | 29°25' | 119°52' | VI-12 | 0337 | 0349 | 359 | 0-134 | 64 | 64 |
| 103.90 | 29°06' | 120°25' | VI-11 | 2205 | 2225 | 558 | 0-138 | 109 | 109 |

Plankton Volumes, Cruise 38, June 1952 (cont'd)

| Sta. | Position | | (1952) 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. |
| 107.32 | 30°25.5' | 116°10.5' | VI-21 | 1235 | 1250 | 393 | 0-138 | 97 | 97 |
| 107.35 | 30°16' | 116°22.5' | VI-21 | 1031 | 1046 | 419 | 0-134 | 210 | 210 |
| 107.40 | 30°08' | 116°42' | VI-21 | 0746 | 0801 | 450 | 0-140 | 115 | 115 |
| 107.45 | 29°58.5' | 117°04' | VI-21 | 0406 | 0420 | 423 | 0-138 | 198 | 92 |
| 107.50 | 29°50' | 117°24' | VI-21 | 0141 | 0156 | 466 | 0-141 | 101 | 101 |
| 107.55 | 29°41.8' | 117°43' | VI-20 | 2231 | 2246 | 460 | 0-139 | 191 | 191 |
| 107.60 | 29°33' | 118°04' | VI-20 | 2011 | 2026 | 461 | 0-137 | 93 | 93 |
| 107.65 | 29°23.5' | 118°25' | VI-20 | 1651 | 1706 | 424 | 0-152 | 57 | 57 |
| 107.70 | 29°14' | 118°44' | VI-20 | 1431 | 1445 | 420 | 0-142 | 76 | 76 |
| 107.80 | 28°54.3' | 119°22.5' | VI-20 | 0911 | 0926 | 477 | 0-142 | 44 | 44 |
| 110.33 | 29°50.5' | 115°52' | VI-18 | 1634 | 1642 | 218 | 0-42 | 469 | 469 |
| 110.35 | 29°46.5' | 116°00' | VI-18 | 1851 | 1905 | 478 | 0-130 | 126 | 126 |
| 110.40 | 29°36.5' | 116°19.5' | VI-18 | 2216 | 2231 | 438 | 0-142 | 103 | 103 |
| 110.45 | 29°26' | 116°39' | VI-19 | 0026 | 0041 | 411 | 0-145 | 102 | 102 |
| 110.50 | 29°17' | 117°00' | VI-19 | 0406 | 0420 | 390 | 0-141 | 213 | 213 |
| 110.55 | 29°05.2' | 117°18' | VI-19 | 0626 | 0640 | 392 | 0-145 | 77 | 77 |
| 110.60 | 28°54' | 117°38' | VI-19 | 0936 | 0950 | 432 | 0-140 | 53 | 53 |
| 110.65 | 28°43.6' | 117°57' | VI-19 | 1156 | 1210 | 368 | 0-138 | 76 | 76 |
| 110.70 | 28°36' | 118°18' | VI-19 | 1446 | 1500 | 400 | 0-143 | 87 | 87 |
| 110.80 | 28°15' | 118°58' | VI-19 | 2011 | 2026 | 418 | 0-139 | 80 | 80 |
| 110.90 | 27°57' | 119°36' | VI-20 | 0121 | 0135 | 422 | 0-141 | 78 | 78 |
| 113.30 | 29°25' | 115°20' | VI-18 | 1134 | 1141 | 232 | 0-46 | 376 | 376 |
| 113.35 | 29°13.2' | 115°38' | VI-18 | 0921 | 0936 | 482 | 0-133 | 305 | 305 |
| 113.40 | 29°02' | 115°58' | VI-18 | 0646 | 0700 | 423 | 0-136 | 97 | 97 |
| 113.45 | 28°52' | 116°18' | VI-18 | 0336 | 0350 | 406 | 0-145 | 86 | 86 |
| 113.50 | 28°42' | 116°38' | VI-18 | 0107 | 0121 | 378 | 0-149 | 196 | 196 |
| 113.55 | 28°32.2' | 116°51.2' | VI-17 | 2146 | 2201 | 429 | 0-139 | 180 | 180 |
| 113.60 | 28°22' | 117°17' | VI-17 | 1926 | 1940 | 451 | 0-147 | 109 | 109 |
| 113.65 | 28°12' | 117°35.8' | VI-17 | 1616 | 1630 | 429 | 0-138 | 79 | 79 |
| 113.70 | 28°02' | 117°55' | VI-17 | 1356 | 1410 | 462 | 0-135 | 342 | 342 |
| 117.26 | 28°55.3' | 114°42.3' | VI-16 | 0844 | 0852 | 257 | 0-48 | 86 | 86 |
| 117.30 | 28°48' | 114°56.5' | VI-16 | 1048 | 1100 | 343 | 0-55 | 41 | 41 |
| 117.35 | 28°33.1' | 116°35.2' | VI-16 | 1356 | 1410 | 374 | 0-138 | 54 | 54 |
| 117.40 | 28°28' | 115°37' | VI-16 | 1606 | 1620 | 445 | 0-131 | 133 | 133 |
| 117.45 | 28°18.1' | 115°55' | VI-16 | 1811 | 1826 | 434 | 0-138 | 46 | 46 |
| 117.50 | 28°07.7' | 116°15' | VI-16 | 2116 | 2131 | 442 | 0-145 | 91 | 91 |
| 117.55 | 27°52' | 116°34.5' | VI-17 | 0001 | 0016 | 375 | 0-144 | 117 | 117 |
| 117.60 | 27°48' | 116°54' | VI-17 | 0301 | 0316 | 501 | 0-112 | 259 | 259 |
| 117.65 | 27°37' | 117°13.5' | VI-17 | 0526 | 0541 | 438 | 0-138 | 137 | 137 |
| 117.70 | 27°24' | 117°38' | VI-17 | 0826 | 0840 | 436 | 0-145 | 69 | 69 |

Plankton Volumes, Cruise 38, June, 1952 (cont'd)

| Sta. | Position | | (1952) 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. strained cc. | Sm. org. cc. |
| 120.25 | 28°23' | 114°15' | VI-16 | 0419 | 0426 | 180 | 0-36 | 78 | 78 |
| 120.30 | 28°13' | 114°35' | VI-16 | 0153 | 0203 | 306 | 0-56 | 398 | 398 |
| 120.35 | 28°03' | 114°54' | VI-15 | 2318 | 2328 | 278 | 0-59 | 403 | 403 |
| 120.40 | 27°54.5' | 115°09.5' | VI-15 | 1329 | 1334 | 119 | 0-22 | 270 | 270 |
| 120.45 | 27°45' | 115°33' | VI-15 | 1041 | 1056 | 448 | 0-137 | 58 | 58 |
| 120.50 | 27°33' | 115°52.5' | VI-15 | 0631 | 0646 | 471 | 0-133 | 64 | 64 |
| 120.55 | 27°22.6' | 116°13' | VI-15 | 0245 | 0301 | 446 | 0-139 | 103 | 103 |
| 120.60 | 27°12' | 116°30' | VI-15 | 0021 | 0036 | 442 | 0-144 | 45 | 45 |
| 120.65 | 27°02' | 116°52.4' | VI-14 | 2021 | 2036 | 433 | 0-142 | 53 | 53 |
| 120.70 | 26°52.5' | 117°10' | VI-14 | 1741 | 1755 | 516 | 0-138 | 37 | 37 |
| 120.80 | 26°33' | 117°48' | VI-14 | 1211 | 1225 | 456 | 0-141 | 13 | 13 |
| 120.90 | 26°10' | 118°30' | VI-14 | 0431 | 0446 | 472 | 0-141 | 25 | 25 |
| 123.37 | 27°23' | 114°41.5' | VI-12 | 2158 | 2206 | 267 | 0-40 | 862 | 862 |
| 123.40 | 27°17' | 114°51' | VI-13 | 0021 | 0036 | 454 | 0-139 | 84 | 84 |
| 123.45 | 27°08' | 115°11' | VI-13 | 0256 | 0310 | 452 | 0-138 | 57 | 57 |
| 123.50 | 26°55' | 115°29.5' | VI-13 | 0656 | 0710 | 444 | 0-140 | 43 | 43 |
| 123.55 | 26°48.1' | 115°49.2' | VI-13 | 0926 | 0941 | 423 | 0-146 | 33 | 33 |
| 123.60 | 26°38' | 116°10' | VI-13 | 1412 | 1426 | 444 | 0-128 | 27 | 27 |
| 127.34 | 26°55.5' | 114°06' | VI-11 | 2323 | 2331 | 293 | 0-57 | 942 | 942 |
| 127.40 | 26°40' | 114°31' | VI-11 | 1933 | 1948 | 442 | 0-142 | 208 | 208 |
| 127.45 | 26°33.2' | 114°45' | VI-11 | 1611 | 1626 | 472 | 0-138 | 104 | 104 |
| 127.50 | 26°24' | 115°08' | VI-11 | 1322 | 1336 | 476 | 0-136 | 34 | 34 |
| 127.55 | 26°13.5' | 115°26' | VI-11 | 1016 | 1030 | 465 | 0-145 | 32 | 32 |
| 127.60 | 26°01' | 115°51.5' | VI-11 | 0625 | 0640 | 488 | 0-140 | 53 | 53 |
| 130.30 | 26°28' | 113°29' | VI-10 | 0223 | 0233 | 319 | 0-58 | 345 | 345 |
| 130.35 | 26°19' | 113°48.5' | VI-10 | 0556 | 0610 | 449 | 0-143 | 62 | 62 |
| 130.40 | 26°09' | 114°05' | VI-10 | 0956 | 1010 | 437 | 0-153 | 174 | 174 |
| 130.45 | 25°58' | 115°33.1' | VI-10 | 1256 | 1311 | 469 | 0-140 | 51 | 51 |
| 130.50 | 25°49' | 114°46' | VI-10 | 1626 | 1641 | 491 | 0-144 | 45 | 45 |
| 130.55 | 25°30' | 115°07.5' | VI-10 | 1906 | 1920 | 474 | 0-137 | 152 | 152 |
| 130.60 | 25°28.5' | 115°24' | VI-10 | 2326 | 2340 | 558 | 0-141 | 147 | 134 |
| 133.25 | 26°01' | 112°48.5' | VI-9 | 1738 | 1749 | 284 | 0-65 | 830 | 830 |
| 133.30 | 25°51.5' | 113°06' | VI-9 | 1457 | 1511 | 454 | 0-140 | 372 | 372 |
| 133.35 | 25°40' | 113°30.5' | VI-9 | 1116 | 1132 | 563 | 0-124 | 73 | 73 |
| 133.40 | 25°30' | 113°50' | VI-9 | 0846 | 0901 | 502 | 0-151 | 70 | 70 |
| 133.45 | 25°24.5' | 114°02' | VI-9 | 0516 | 0531 | 480 | 0-147 | 29 | 29 |
| 133.50 | | | Occupied. Sample not quantitative | | | | | | |
| 137.23 | 25°35' | 112°18.8' | VI-8 | 0319 | 0326 | 226 | 0-36 | 792 | 792 |
| 137.30 | 25°20' | 112°46' | VI-8 | 0732 | 0746 | 414 | 0-153 | 34 | 34 |
| 137.35 | 25°08' | 113°09' | VI-8 | 1006 | 1020 | 528 | 0-124 | 133 | 133 |
| 137.40 | 25°00' | 113°23' | VI-8 | 1317 | 1331 | 508 | 0-132 | 63 | 63 |
| 137.45 | 24°50' | 113°43' | VI-8 | 1541 | 1556 | 499 | 0-139 | 44 | 44 |
| 137.50 | 24°40' | 114°01.5' | VI-8 | 1926 | 1941 | 504 | 0-149 | 197 | 183 |

Plankton Volumes, Cruise 39, July 1952

| Sta. | Position | | Time (PST) | | Vol. water strained | Depth of haul in meters | Vol. per 1000 C.M. strained | | |
|--------|----------|-----------|------------------------------------|-------|---------------------|-------------------------|-----------------------------|----------|--------------|
| | N. lat. | W. long. | Date | Start | | | End | C.M. cc. | Sm. org. cc. |
| 40.38 | 41°45.5' | 124°26.5' | VII-14 | 1440 | 1452 | 298 | 0-70 | 2483 | 2483 |
| 40.40 | | | Occupied. No biological data taken | | | | | | |
| 40.50 | 41°21' | 125°22' | VII-14 | 0741 | 0755 | 337 | 0-148 | 1211 | 1178 |
| 40.60 | 41°03' | 126°09' | VII-14 | 0106 | 0120 | 452 | 0-121 | 798 | 783 |
| 40.70 | 40°40' | 126°52.5' | VII-13 | 1906 | 1921 | 456 | 0-135 | 675 | 675 |
| 40.80 | 40°23' | 127°40' | VII-13 | 1316 | 1330 | 465 | 0-148 | 682 | 501 |
| 40.90 | 40°04' | 128°22.5' | VII-13 | 0741 | 0755 | 451 | 0-139 | 836 | 803 |
| 43.42 | 41°04' | 124°22' | VII-14 | 1816 | 1830 | 442 | 0-142 | 1119 | 1031 |
| 43.50 | | | Occupied. Sample not quantitative | | | | | | |
| 47.50 | 40°14' | 124°32' | VII-15 | 1201 | 1215 | 488 | 0-135 | 860 | 860 |
| 47.55 | 40°04.2' | 124°54.5' | VII-15 | 0859 | 0914 | 437 | 0-147 | 1373 | 1373 |
| 47.60 | 39°54' | 125°18' | VII-15 | 0556 | 0611 | 306 | 0-149 | 730 | 714 |
| 50.47 | 39°45' | 123°56' | VII-15 | 1638 | 1652 | 455 | 0-62 | 906 | 906 |
| 50.50 | 39°40' | 124°08' | VII-15 | 1836 | 1851 | 520 | 0-126 | 444 | 444 |
| 50.55 | 39°30.8' | 124°28.4' | VII-15 | 2056 | 2110 | 474 | 0-146 | 750 | 750 |
| 50.60 | 39°20' | 124°52' | VII-16 | 0100 | 0115 | 505 | 0-131 | 239 | 239 |
| 50.70 | 39°00' | 125°36' | VII-16 | 0656 | 0711 | 474 | 0-139 | 87 | 87 |
| 50.80 | | | Occupied. No biological data taken | | | | | | |
| 50.90 | | | Occupied. No biological data taken | | | | | | |
| 53.55 | 38°55.5' | 124°05' | VII-12 | 0541 | 0555 | 460 | 0-137 | 1368 | 1368 |
| 53.60 | 38°45.8' | 124°26.7' | VII-12 | 0201 | 0215 | 479 | 0-139 | 789 | 702 |
| 53.65 | 38°36' | 124°48' | VII-11 | 2316 | 2330 | 471 | 0-139 | 501 | 481 |
| 57.51 | 38°30' | 123°22' | VII-11 | 0923 | 0933 | 353 | 0-52 | 215 | 215 |
| 57.55 | 38°22' | 123°40' | VII-11 | 1206 | 1221 | 576 | 0-127 | 271 | 271 |
| 57.60 | 38°12.7' | 124°01.5' | VII-11 | 1456 | 1510 | 534 | 0-123 | 288 | 288 |
| 57.65 | 38°02.5' | 124°24' | VII-11 | 1801 | 1816 | 455 | 0-137 | 549 | 549 |
| 60.55 | | | Occupied. Sample not quantitative | | | | | | |
| 60.57 | 37°47.5' | 123°15' | VII-18 | 0446 | 0501 | 440 | 0-141 | 669 | 669 |
| 60.60 | 37°37' | 123°37' | VII-18 | 0349 | 0404 | 393 | 0-143 | 843 | 749 |
| 60.65 | | | Occupied. Sample not quantitative | | | | | | |
| 60.70 | 37°15' | 124°21' | VII-17 | 2146 | 2200 | 524 | 0-122 | 282 | 256 |
| 60.80 | | | Occupied. No biological data taken | | | | | | |
| 60.90 | 36°36' | 125°45' | VII-17 | 1036 | 1050 | 474 | 0-143 | 507 | 507 |
| 60.100 | | | Occupied. No biological data taken | | | | | | |
| 63.52 | 37°19' | 122°36' | VII-19 | 1428 | 1438 | 250 | 0-52 | 750 | 635 |
| 63.55 | 37°14' | 122°49.5' | VII-19 | 1620 | 1636 | 469 | 0-144 | 382 | 282 |
| 63.60 | 37°01.5' | 123°14.8' | VII-19 | 1856 | 1911 | 391 | 0-143 | 492 | 461 |
| 63.65 | 36°53' | 123°32' | VII-19 | 2206 | 2221 | 486 | 0-128 | 523 | 512 |
| 67.50 | | | Occupied. Sample not quantitative | | | | | | |
| 67.55 | 36°40' | 122°15.5' | VII-20 | 0920 | 0935 | 344 | 0-148 | 560 | 465 |
| 67.60 | 36°28.6' | 122°42' | VII-20 | 0546 | 0601 | 395 | 0-126 | 504 | 296 |
| 67.65 | 36°18' | 123°06' | VII-20 | 0326 | 0340 | 474 | 0-132 | 432 | 342 |
| 70.51 | 36°10.5' | 121°45.6' | VII-20 | 1636 | 1650 | 289 | 0-135 | 636 | 636 |
| 70.60 | 35°53' | 122°23' | VII-20 | 2112 | 2126 | 441 | 0-151 | 295 | 295 |
| 70.65 | 35°42.8' | 122°45' | VII-20 | 2346 | 0001 | 460 | 0-133 | 957 | 957 |
| 70.70 | 35°33' | 123°05' | VII-21 | 0346 | 0400 | 369 | 0-144 | 471 | 471 |
| 70.80 | 35°13' | 123°47' | VII-21 | 0906 | 0920 | 419 | 0-130 | 244 | 244 |
| 70.90 | 34°53' | 124°30' | VII-21 | 1446 | 1500 | 438 | 0-142 | 126 | 112 |

Plankton Volumes, Cruise 39, July 1952 (cont'd)

| Sta. | Position | | Time (PST) | | Vol. water strained | Depth of haul in meters | Vol. per 1000 C.M. strained | | |
|--------|----------|-----------|-------------|-------|---------------------|-------------------------|-----------------------------|------|---------------|
| | N. lat. | W. long. | Date (1952) | Start | | | End | C.M. | Total Sm.org. |
| 73.50 | 35°39' | 121°20' | VII-10 | 1348 | 1358 | 357 | 0-41 | 812 | 812 |
| 73.55 | 35°29.7' | 121°42.3' | VII-10 | 1046 | 1101 | 519 | 0-129 | 617 | 578 |
| 73.60 | 35°18' | 121°58' | VII-10 | 0806 | 0820 | 496 | 0-126 | 282 | 282 |
| 77.50 | 35°00.5' | 120°54' | VII-9 | 1641 | 1656 | 524 | 0-142 | 191 | 191 |
| 77.55 | 34°54.5' | 121°13' | VII-9 | 1956 | 2011 | 467 | 0-143 | 874 | 874 |
| 77.60 | 34°44.2' | 121°33.8' | VII-9 | 2231 | 2246 | 407 | 0-39 | 708 | 708 |
| 77.65 | 34°34' | 121°55' | VII-10 | 0201 | 0215 | 440 | 0-145 | 621 | 541 |
| 80.51 | 34°25' | 120°32.5' | VII-23 | 1003 | 1016 | 355 | 0-69 | 163 | 163 |
| 80.55 | 34°19' | 120°48' | VII-23 | 0812 | 0826 | 375 | 0-139 | 224 | 224 |
| 80.60 | 34°03' | 121°05' | VII-23 | 0520 | 0535 | 367 | 0-128 | 820 | 807 |
| 80.65 | 33°54' | 121°27' | VII-23 | 0219 | 0233 | 406 | 0-138 | 720 | 720 |
| 80.70 | 33°43' | 121°52' | VII-22 | 2341 | 2356 | 467 | 0-136 | 182 | 182 |
| 80.80 | 33°25' | 122°35' | VII-22 | 1656 | 1711 | 422 | 0-141 | 97 | 76 |
| 80.90 | 33°09' | 123°14' | VII-22 | 1106 | 1121 | 553 | 0-103 | 49 | 31 |
| 80.100 | 32°49' | 123°54' | VII-22 | 0546 | 0600 | 425 | 0-138 | 45 | 45 |
| 85.38 | 34°01.5' | 119°02.5' | VII-12 | 0543 | 0551 | 245 | 0-59 | 449 | 449 |
| 85.40 | 35°57' | 119°11' | VII-12 | 0411 | 0426 | 450 | 0-118 | 160 | 160 |
| 85.45 | 33°46.4' | 119°30.7' | VII-12 | 0041 | 0056 | 469 | 0-137 | 239 | 239 |
| 85.50 | 33°35.5' | 119°50.5' | VII-11 | 2221 | 2236 | 484 | 0-125 | 512 | 512 |
| 85.55 | 33°25' | 120°13' | VII-11 | 1926 | 1941 | 447 | 0-144 | 389 | 389 |
| 85.60 | 33°18.5' | 120°26' | VII-11 | 1741 | 1756 | 440 | 0-132 | 1278 | 1230 |
| 85.70 | 33°55.6' | 121°11.1' | VII-11 | 1231 | 1245 | 476 | 0-130 | 204 | 204 |
| 85.80 | 32°39' | 121°53' | VII-11 | 0821 | 0836 | 468 | 0-120 | 205 | 205 |
| 85.90 | 32°17' | 122°37' | VII-11 | 0356 | 0411 | 431 | 0-140 | 464 | 464 |
| 90.28 | 33°28' | 117°47' | VII-8 | 2141 | 2156 | 467 | 0-133 | 422 | 343 |
| 90.30 | 33°24.5' | 117°56.4' | VII-8 | 2316 | 2331 | 445 | 0-136 | 256 | 256 |
| 90.37 | 33°10.9' | 118°23.5' | VII-9 | 0330 | 0346 | 500 | 0-134 | 202 | 202 |
| 90.45 | 32°54.5' | 118°56' | VII-9 | 1651 | 1706 | 440 | 0-136 | 100 | 100 |
| 90.53 | 32°40' | 119°31' | VII-9 | 2116 | 2131 | 446 | 0-135 | 323 | 301 |
| 90.60 | 32°25' | 119°57.5' | VII-10 | 0105 | 0121 | 499 | 0-135 | 62 | 62 |
| 90.70 | 32°00.5' | 120°42.8' | VII-10 | 0706 | 0721 | 487 | 0-124 | 113 | 113 |
| 90.80 | 31°47' | 121°19' | VII-10 | 1106 | 1121 | 444 | 0-140 | 101 | 101 |
| 90.90 | 31°25.5' | 121°59.6' | VII-10 | 1606 | 1621 | 446 | 0-131 | 81 | 81 |
| 90.100 | 31°06.8' | 122°39' | VII-10 | 2036 | 2051 | 468 | 0-134 | 47 | 47 |
| 93.27 | 32°55.6' | 117°19.4' | VII-8 | 1708 | 1716 | 242 | 0-67 | 364 | 364 |
| 93.30 | 32°48' | 117°31' | VII-8 | 1515 | 1531 | 496 | 0-138 | 81 | 81 |
| 93.35 | 32°39' | 117°50.5' | VII-8 | 1146 | 1202 | 457 | 0-143 | 61 | 61 |
| 93.40 | 32°30' | 118°13' | VII-8 | 0921 | 0936 | 483 | 0-138 | 124 | 124 |
| 93.45 | 32°19.8' | 118°33' | VII-8 | 0611 | 0626 | 510 | 0-118 | 372 | 372 |
| 93.50 | 32°10' | 118°53.2' | VII-8 | 0350 | 0406 | 510 | 0-132 | 302 | 302 |
| 93.55 | 32°00' | 119°14.5' | VII-8 | 0030 | 0045 | 444 | 0-134 | 397 | 397 |
| 93.60 | 31°50' | 119°34' | VII-7 | 2156 | 2211 | 472 | 0-130 | 479 | 479 |
| 93.70 | 31°29' | 120°14.4' | VII-7 | 1716 | 1731 | 456 | 0-141 | 44 | 44 |
| 93.80 | 31°10' | 120°54' | VII-7 | 1231 | 1246 | 474 | 0-134 | 67 | 67 |
| 93.90 | 30°50' | 121°36' | VII-7 | 0756 | 0811 | 470 | 0-137 | 45 | 45 |
| 97.30 | 32°15.4' | 117°08.8' | VII-5 | 1918 | 1924 | 176 | 0-34 | 495 | 495 |
| 97.32 | 32°11.5' | 117°17' | VII-5 | 2136 | 2151 | 424 | 0-145 | 141 | 141 |

Plankton Volumes, Cruise 39, July 1952 (cont'd)

| Sta. | Position | | (1952) 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. |
| 97.40 | 31°55.5' | 117°49' | VII-6 | 0125 | 0141 | 461 | 0-141 | 271 | 271 |
| 97.45 | 31°45.3' | 118°10' | VII-6 | 0401 | 0416 | 444 | 0-131 | 225 | 225 |
| 97.50 | 31°35' | 118°30.2' | VII-6 | 0651 | 0706 | 417 | 0-137 | 316 | 316 |
| 97.55 | 31°25' | 118°50' | VII-6 | 0906 | 0921 | 486 | 0-130 | 187 | 187 |
| 97.60 | 31°15' | 119°12' | VII-6 | 1141 | 1156 | 495 | 0-129 | 432 | 408 |
| 97.70 | 30°55' | 119°51' | VII-6 | 1631 | 1646 | 459 | 0-146 | 96 | 96 |
| 97.80 | 30°35' | 120°30' | VII-6 | 2131 | 2146 | 547 | 0-125 | 115 | 115 |
| 97.90 | 30°15' | 121°10.8' | VII-7 | 0235 | 0251 | 472 | 0-138 | 66 | 53 |
| 100.29 | 31°42.5' | 116°43.4' | VII-5 | 1451 | 1506 | 447 | 0-143 | 230 | 230 |
| 100.30 | 31°40.5' | 116°47' | VII-5 | 1328 | 1343 | 472 | 0-134 | 93 | 93 |
| 100.35 | 31°30' | 117°06' | VII-5 | 0941 | 0956 | 450 | 0-141 | 124 | 124 |
| 100.40 | 31°20.8' | 117°27' | VII-5 | 0651 | 0706 | 421 | 0-140 | 185 | 185 |
| 100.45 | 31°11' | 117°46.8' | VII-5 | 0315 | 0331 | 494 | 0-135 | 247 | 247 |
| 100.50 | 31°01' | 118°07' | VII-5 | 0111 | 0126 | 505 | 0-137 | 172 | 172 |
| 100.55 | 30°15' | 118°27' | VII-4 | 2156 | 2211 | 435 | 0-144 | 218 | 218 |
| 100.60 | 30°40.5' | 118°47.5' | VII-4 | 1942 | 1957 | 463 | 0-138 | 138 | 138 |
| 100.70 | 30°20.3' | 119°27.3' | VII-4 | 1421 | 1436 | 440 | 0-142 | 275 | 275 |
| 100.80 | 30°00' | 120°08.9' | VII-4 | 0831 | 0845 | 464 | 0-129 | 52 | 52 |
| 100.90 | 29°40.5' | 120°47' | VII-4 | 0321 | 0335 | (463) | 0-125 | 183 | 147 |
| 100.100 | 29°20' | 121°27' | VII-3 | 2221 | 2236 | 472 | 0-140 | 62 | 62 |
| 105.32 | 30°45.2' | 116°20.7' | VII-2 | 0503 | 0510 | 248 | 0-145 | 194 | 194 |
| 105.35 | 30°39.6' | 116°32.4' | VII-2 | 0736 | 0751 | 476 | 0-129 | 132 | 132 |
| 105.40 | 30°29' | 116°55' | VII-2 | 1101 | 1116 | 447 | 0-142 | 121 | 121 |
| 105.45 | 30°18.5' | 117°13' | VII-2 | 1336 | 1350 | 441 | 0-145 | 138 | 125 |
| 105.50 | 30°10.2' | 117°31.1' | VII-2 | 1656 | 1711 | 432 | 0-145 | 171 | 171 |
| 105.55 | 29°55' | 118°03.2' | VII-2 | 1956 | 2011 | 508 | 0-123 | 124 | 124 |
| 105.60 | 29°50' | 118°16' | VII-2 | 2230 | 2246 | (490) | 0-136 | 71 | 71 |
| 105.70 | 29°29' | 118°54' | VII-3 | 0340 | 0356 | 476 | 0-138 | 88 | 76 |
| 105.80 | 29°02' | 119°30' | VII-3 | 0841 | 0856 | 519 | 0-125 | 91 | 75 |
| 105.90 | 28°49.3' | 120°14.3' | VII-3 | 1446 | 1501 | 472 | 0-142 | 38 | 38 |
| 110.33 | 29°51' | 115°52.2' | VII-9 | 0955 | 1011 | 606 | 0-141 | 462 | 462 |
| 110.35 | 29°47.1' | 116°00.1' | VII-9 | 1211 | 1226 | 505 | 0-128 | 194 | 194 |
| 110.40 | 29°37' | 116°20.5' | VII-9 | 1606 | 1620 | 502 | 0-125 | 88 | 88 |
| 110.50 | 29°17.2' | 117°01.2' | VII-9 | 2316 | 2331 | 549 | 0-139 | 95 | 95 |
| 110.60 | 28°57.1' | 117°42.6' | VII-10 | 0556 | 0611 | 477 | 0-140 | 88 | 88 |
| 110.70 | 28°33.2' | 118°25.2' | VII-10 | 1247 | 1301 | 546 | 0-124 | 194 | 194 |
| 110.80 | 28°14.4' | 119°00.8' | VII-10 | 1816 | 1831 | 526 | 0-133 | 148 | 148 |
| 110.90 | 27°56.2' | 119°36' | VII-11 | 0026 | 0041 | 567 | 0-125 | 109 | 88 |
| 113.30 | 29°15.6' | 115°10.1' | VII-12 | 1908 | 1915 | 205 | 0-34 | 839 | 839 |
| 113.35 | 29°01.5' | 115°42.5' | VII-12 | 1335 | 1351 | 465 | 0-131 | 194 | 194 |
| 113.40 | 28°46.2' | 115°15.1' | VII-12 | 0911 | 0926 | 474 | 0-146 | 59 | 59 |
| 113.45 | 28°39.5' | 116°30' | VII-12 | 0421 | 0435 | 473 | 0-138 | 63 | 63 |
| 113.50 | 28°32.2' | 116°45.4' | VII-12 | 0141 | 0156 | 495 | 0-130 | 129 | 129 |
| 113.55 | 28°25' | 117°00' | VII-11 | 2201 | 2216 | 532 | 0-135 | 158 | 158 |
| 113.60 | 28°19.4' | 117°16.7' | VII-11 | 1901 | 1916 | 530 | 0-141 | 147 | 147 |
| 113.70 | 27°55.4' | 118°03.2' | VII-11 | 1206 | 1221 | 482 | 0-141 | 141 | 141 |
| 117.26 | 28°55.8' | 114°41.3' | VII-12 | 2328 | 2336 | 218 | 0-38 | 605 | 605 |

Plankton Volumes, Cruise 39, July 1952 (cont'd)

| Sta. | Position | | (1952) 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. |
| 117.30 | 28°46.9' | 114°56.1' | VII-13 | 0214 | 0221 | 200 | 0-37 | 861 | 861 |
| 117.35 | 28°39' | 114°08.8' | VII-13 | 0449 | 0456 | 225 | 0-37 | 435 | 435 |
| 117.40 | 28°28.9' | 115°37.4' | VII-13 | 0905 | 0920 | 419 | 0-142 | 248 | 248 |
| 117.45 | 28°19' | 115°56.5' | VII-13 | 1206 | 1221 | 530 | 0-130 | 230 | 230 |
| 117.50 | 28°08.5' | 116°18.2' | VII-13 | 1610 | 1626 | 372 | 0-165 | 145 | 145 |
| 117.55 | 27°58' | 116°38.5' | VII-13 | 1936 | 1951 | 296 | 0-126 | 196 | 196 |
| 117.60 | 27°48.1' | 116°58.6' | VII-13 | 2325 | 2341 | 448 | 0-149 | 214 | 214 |
| 117.70 | 27°27.8' | 117°38.9' | VII-14 | 0616 | 0631 | 465 | 0-150 | 198 | 198 |
| 120.25 | 28°19.5' | 114°20' | VII-16 | 1409 | 1416 | 169 | 0-38 | 403 | 403 |
| 120.30 | 28°11.3' | 114°37.5' | VII-16 | 1114 | 1124 | 359 | 0-66 | 95 | 95 |
| 120.35 | 28°03.2' | 114°54' | VII-16 | 0813 | 0824 | 328 | 0-52 | 183 | 183 |
| 120.37 | 27°57.8' | 115°09.2' | VII-16 | 0549 | 0554 | 185 | 0-16 | 184 | 184 |
| 120.45 | 27°43' | 115°22.3' | VII-16 | 0256 | 0311 | 489 | 0-127 | 409 | 409 |
| 120.50 | 27°33.9' | 115°41.4' | VII-15 | 2301 | 2316 | 455 | 0-146 | 286 | 286 |
| 120.55 | 27°26' | 115°57' | VII-15 | 1921 | 1936 | 460 | 0-122 | 113 | 113 |
| 120.60 | 27°13.3' | 116°23.2' | VII-15 | 1605 | 1621 | 549 | 0-116 | 98 | 98 |
| 120.70 | 26°53.6' | 117°04.1' | VII-15 | 0831 | 0846 | 448 | 0-140 | 49 | 49 |
| 120.80 | 26°33' | 117°45.1' | VII-15 | 0141 | 0156 | 419 | 0-137 | 145 | 110 |
| 120.90 | 26°13.3' | 118°25.3' | VII-14 | 1716 | 1731 | 612 | 0-127 | 23 | 23 |
| 123.37 | 27°23.6' | 114°41.3' | VII-17 | 0023 | 0034 | 378 | 0-50 | 3329 | 3329 |
| 123.40 | 27°17.5' | 114°51.5' | VII-17 | 0341 | 0356 | 479 | 0-132 | 476 | 476 |
| 123.45 | 27°07.5' | 115°11' | VII-17 | 0536 | 0551 | 518 | 0-128 | 120 | 120 |
| 123.50 | 26°58.7' | 115°28.8' | VII-17 | 0916 | 0931 | 448 | 0-138 | 197 | 197 |
| 123.60 | 26°38.8' | 116°08.2' | VII-17 | 2316 | 2330 | 459 | 0-141 | 39 | 39 |
| 127.34 | 26°54.3' | 114°05.3' | VII-18 | 1507 | 1519 | 352 | 0-51 | 761 | 761 |
| 127.40 | 26°40.3' | 114°31.3' | VII-18 | 1041 | 1056 | 453 | 0-148 | 124 | 124 |
| 127.45 | 26°31' | 114°49.5' | VII-18 | 0641 | 0655 | 470 | 0-135 | 183 | 183 |
| 127.50 | 26°20.9' | 115°07.6' | VII-18 | 0436 | 0451 | 426 | 0-142 | 282 | 282 |
| 127.60 | 26°03.2' | 115°45.8' | VII-17 | 2111 | 2126 | 446 | 0-138 | 54 | 54 |
| 130.30 | 26°29' | 113°29' | VII-19 | 0229 | 0236 | 256 | 0-27 | 556 | 556 |
| 130.35 | 26°19' | 113°48.3' | VII-19 | 0841 | 0856 | 504 | 0-134 | 99 | 99 |
| 130.40 | 26°08.7' | 114°08.8' | VII-19 | 1256 | 1311 | 474 | 0-138 | 84 | 84 |
| 130.45 | 24°58.5' | 114°28' | VII-19 | 1541 | 1556 | 515 | 0-127 | 74 | 74 |
| 130.50 | 24°48.6' | 114°47.7' | VII-19 | 1946 | 2001 | 487 | 0-135 | 90 | 70 |
| 130.60 | 24°28.1' | 115°26' | VII-20 | 0226 | 0241 | 482 | 0-134 | 83 | 83 |
| 133.25 | | | Occupied. | | Sample lost | | | | |
| 133.30 | 25°45' | 113°21.8' | VII-20 | 2321 | 2336 | 461 | 0-135 | 156 | 156 |
| 133.35 | 25°37.2' | 113°38' | VII-20 | 1941 | 1956 | 531 | 0-122 | 218 | 218 |
| 133.40 | 25°29' | 113°54' | VII-20 | 1656 | 1710 | 540 | 0-114 | 115 | 115 |
| 133.45 | 25°21' | 114°10.5' | VII-20 | 1311 | 1326 | 513 | 0-126 | 51 | 51 |
| 133.50 | 25°13.2' | 114°26.5' | VII-20 | 1010 | 1025 | 465 | 0-141 | 77 | 64 |
| 137.23 | 25°34.2' | 112°17.8' | VII-22 | 0324 | 0331 | 333 | 0-30 | 3348 | 3348 |
| 137.30 | 25°20' | 112°45.5' | VII-22 | 0744 | 0753 | 294 | 0-41 | 306 | 306 |
| 137.35 | 25°10' | 113°04.2' | VII-22 | 1016 | 1031 | 523 | 0-117 | 248 | 141 |
| 137.40 | 25°00' | 113°23' | VII-22 | 1351 | 1406 | 512 | 0-120 | 23 | 23 |
| 137.45 | 24°50.8' | 113°40.1' | VII-22 | 1631 | 1646 | 535 | 0-109 | 56 | 56 |
| 137.50 | 24°39.6' | 114°01' | VII-22 | 2021 | 2036 | 506 | 0-126 | 197 | 87 |

Plankton Volumes, Cruise 40, August 1952

| Sta. | Position | | (1952) 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°46.5' | 123°11.5' | VIII-19 | 0753 | 0801 | 247 | 0-74 | 1078 | 268 |
| 63.52 | 37°19' | 122°36.2' | VIII-18 | 1858 | 1904 | 218 | 0-56 | 55 | 55 |
| 63.55 | 37°14' | 122°49.5' | VIII-18 | 2056 | 2111 | 426 | 0-140 | 324 | 267 |
| 67.50 | 36°49' | 122°04.6' | VIII-18 | 1228 | 1235 | 197 | 0-57 | 3411 | 569 |
| 67.55 | 36°39' | 122°26' | VIII-18 | 0841 | 0856 | 460 | 0-142 | 178 | 178 |
| 67.65 | 36°19' | 123°09' | VIII-18 | 0106 | 0121 | 443 | 0-146 | 160 | 160 |
| 70.51 | 36°10.4' | 121°45.7' | VIII-16 | 0131 | 0146 | 509 | 0-140 | 620 | 620 |
| 70.60 | 35°53' | 122°23' | VIII-16 | 2216 | 2230 | 480 | 0-142 | 473 | 462 |
| 70.70 | 35°33' | 123°06' | VIII-17 | 0456 | 0511 | 452 | 0-142 | 321 | 321 |
| 70.80 | 35°13' | 123°48' | VIII-17 | 1026 | 1041 | 504 | 0-132 | 66 | 66 |
| 73.50 | 35°37' | 121°16.6' | VIII-15 | 1118 | 1125 | 217 | 0-56 | 354 | 354 |
| 73.60 | 35°18' | 121°58.4' | VIII-15 | 1656 | 1711 | 484 | 0-138 | 1273 | 1273 |
| 77.50 | 35°04.4' | 120°52' | VIII-15 | 0543 | 0550 | 266 | 0-69 | 165 | 165 |
| 77.55 | 34°54.5' | 121°13' | VIII-15 | 0121 | 0136 | 458 | 0-142 | 245 | 245 |
| 77.65 | 34°34' | 121°55' | VIII-14 | 1601 | 1616 | 457 | 0-143 | 1811 | 1785 |
| 80.51 | 34°26.5' | 120°32.5' | VIII-12 | 0743 | 0750 | 198 | 0-58 | 423 | 141 |
| 80.55 | 34°19' | 120°48' | VIII-12 | 1010 | 1025 | 483 | 0-139 | 306 | 306 |
| 80.60 | 34°09' | 121°09' | VIII-12 | 1401 | 1416 | 430 | 0-141 | 495 | 423 |
| 80.70 | 33°49' | 121°51' | VIII-12 | 2216 | 2230 | 480 | 0-142 | 108 | 108 |
| 80.80 | 33°29' | 122°32' | VIII-13 | 0451 | 0506 | 489 | 0-139 | 256 | 256 |
| 80.90 | 33°09' | 123°12' | VIII-13 | 1446 | 1501 | 468 | 0-143 | 24 | 24 |
| 80.100 | 32°49' | 123°54' | VIII-13 | 1925 | 1941 | 514 | 0-138 | 35 | 35 |
| 85.38 | 34°01' | 119°02.3' | VIII-11 | 2108 | 2115 | 206 | 0-58 | 218 | 218 |
| 85.40 | 33°57' | 119°10.5' | VIII-11 | 1756 | 1811 | 506 | 0-133 | 99 | 99 |
| 85.50 | 33°37' | 119°52' | VIII-11 | 1140 | 1154 | 462 | 0-143 | 108 | 108 |
| 85.60 | 33°13' | 120°33' | VIII-11 | 0326 | 0341 | 498 | 0-142 | 908 | 851 |
| 90.28 | 33°28.5' | 117°46.7' | VIII-9 | 0908 | 0916 | 282 | 0-68 | 358 | 358 |
| 90.30 | 33°24.5' | 117°55' | VIII-9 | 1036 | 1051 | 502 | 0-142 | 195 | 195 |
| 90.37 | 33°11' | 118°23.5' | VIII-9 | 1606 | 1620 | 505 | 0-138 | 170 | 170 |
| 90.45 | 32°54.5' | 118°56' | VIII-9 | 2146 | 2201 | 492 | 0-142 | 659 | 635 |
| 90.53 | 32°38.5' | 119°29' | VIII-10 | 0301 | 0316 | 473 | 0-137 | 456 | 456 |
| 90.60 | 32°25' | 119°57.5' | VIII-10 | 0826 | 0842 | 499 | 0-142 | 122 | 122 |
| 90.70 | 32°04.5' | 120°39' | VIII-10 | 1456 | 1511 | 515 | 0-141 | 142 | 132 |
| 93.27 | 32°56' | 117°19.2' | VIII-9 | 0311 | 0326 | 533 | 0-136 | 176 | 176 |
| 93.30 | 32°50' | 117°31.5' | VIII-9 | 0001 | 0016 | 547 | 0-129 | 104 | 104 |
| 93.40 | 32°30' | 118°12.5' | VIII-8 | 1756 | 1811 | 531 | 0-138 | 154 | 154 |
| 93.50 | 32°10' | 118°53.5' | VIII-8 | 1156 | 1211 | 518 | 0-142 | 174 | 174 |
| 97.30 | 32°15.4' | 117°08.8' | VIII-7 | 1509 | 1515 | 249 | 0-42 | 850 | 850 |
| 97.32 | 32°11.5' | 117°17' | VIII-7 | 1726 | 1741 | 527 | 0-133 | 163 | 133 |
| 97.40 | 31°55.5' | 117°50' | VIII-7 | 2311 | 2326 | 504 | 0-144 | 428 | 428 |
| 97.50 | 31°35.5' | 118°30.5' | VIII-8 | 0601 | 0616 | 510 | 0-141 | 172 | 172 |

Plankton Volumes, Cruise 40, August 1952 (cont'd)

| Sta. | Position | | Time (PST) | | Vol. water strained | Depth of haul in meters | Vol. per 1000 C.M. strained | | |
|--------|----------|-----------|--------------|-------|---------------------|-------------------------|-----------------------------|------|---------------|
| | N. lat. | W. long. | Date (1952) | Start | | | End | C.M. | Total Sm.org. |
| 100.29 | 31°42' | 116°43.5' | VIII-8 | 1856 | 1906 | 314 | 0-71 | 280 | 280 |
| 100.30 | 31°40.5' | 116°46.5' | VIII-8 | 2046 | 2101 | 479 | 0-131 | 280 | 280 |
| 100.40 | 31°21' | 117°27' | VIII-9 | 0221 | 0236 | 530 | 0-123 | 110 | 98 |
| 100.50 | 31°00' | 118°07' | VIII-9 | 0718 | 0733 | 472 | 0-118 | 87 | 87 |
| 100.60 | 30°37' | 118°48.5' | VIII-9 | 1226 | 1240 | 453 | 0-141 | 73 | 73 |
| 100.70 | 30°18' | 119°26' | VIII-9 | 1707 | 1720 | 367 | 0-148 | 54 | 54 |
| 100.80 | 30°01' | 120°07' | VIII-9 | 2256 | 2311 | 492 | 0-108 | 37 | 37 |
| 103.30 | 31°05' | 116°25' | VIII-11 | 0118 | 0124 | 190 | 0-58 | 676 | 676 |
| 103.35 | 30°53' | 116°42.2' | VIII-10 | 2251 | 2306 | 471 | 0-139 | 221 | 221 |
| 103.40 | 30°43' | 117°04' | VIII-10 | 1932 | 1945 | 479 | 0-131 | 313 | 313 |
| 107.32 | 30°25.5' | 116°11' | VIII-11 | 0621 | 0636 | 438 | 0-130 | 235 | 235 |
| 107.35 | 30°20' | 116°20' | VIII-11 | 0911 | 0925 | 463 | 0-131 | 106 | 106 |
| 107.40 | 30°10.5' | 116°43.5' | VIII-11 | 1231 | 1245 | 367 | 0-143 | 101 | 101 |
| 110.33 | 29°50.5' | 115°52' | VIII-12 | 1543 | 1549 | 160 | 0-36 | 589 | 589 |
| 110.35 | 29°46.5' | 116°00' | VIII-12 | 1356 | 1410 | 412 | 0-129 | 412 | 412 |
| 110.40 | 29°36.5' | 116°19.5' | VIII-12 | 1011 | 1026 | 413 | 0-143 | 58 | 58 |
| 110.50 | 29°17' | 116°59' | VIII-12 | 0506 | 0520 | 442 | 0-137 | 129 | 95 |
| 110.60 | 28°56' | 117°39' | VIII-11 | 2341 | 2355 | 382 | 0-138 | 222 | 222 |
| 113.30 | 29°22.5' | 115°18' | VIII-12 | 2014 | 2018 | 123 | 0-39 | 1246 | 1246 |
| 113.40 | 29°02' | 115°58' | VIII-13 | 0141 | 0156 | 389 | 0-143 | 100 | 87 |
| 117.26 | 28°56' | 114°41' | VIII-13 | 1318 | 1324 | 196 | 0-54 | 499 | 499 |
| 117.30 | 28°47' | 114°55.5' | VIII-13 | 1048 | 1056 | 246 | 0-60 | 597 | 508 |
| 117.40 | 28°28' | 115°35.5' | VIII-13 | 0602 | 0616 | 413 | 0-143 | 259 | 259 |
| 120.25 | 28°23' | 114°15' | VIII-13 | 1814 | 1818 | 121 | 0-47 | 340 | 340 |
| 120.30 | | | Not occupied | | | | | | |
| 120.35 | | | Not occupied | | | | | | |
| 120.45 | 27°43' | 115°33' | VIII-14 | 2326 | 2340 | 402 | 0-149 | 284 | 284 |
| 120.50 | 27°33.5' | 115°56' | VIII-15 | 0231 | 0246 | 464 | 0-137 | 278 | 149 |
| 120.60 | 27°16' | 116°31.5' | VIII-15 | 0732 | 0745 | 461 | 0-121 | 70 | 70 |
| 120.70 | 26°54' | 117°10' | VIII-15 | 1126 | 1140 | 423 | 0-147 | 95 | 95 |
| 120.80 | 26°33' | 117°48' | VIII-15 | 1626 | 1640 | 426 | 0-143 | 1266 | 1266 |
| 120.90 | 26°12.5' | 118°27' | VIII-15 | 2041 | 2056 | 430 | 0-147 | 51 | 51 |
| 123.37 | 27°24' | 114°40' | VIII-16 | 1744 | 1748 | 164 | 0-38 | 257 | 257 |
| 123.40 | 27°18' | 114°51.5' | VIII-16 | 1556 | 1610 | 422 | 0-138 | 90 | 90 |
| 123.50 | 26°58' | 115°31' | VIII-16 | 1111 | 1126 | 449 | 0-135 | 129 | 129 |
| 127.34 | 26°55' | 114°06' | VIII-16 | 2244 | 2249 | 157 | 0-35 | 801 | 801 |
| 127.40 | 26°43.5' | 114°29.5' | VIII-17 | 0156 | 0210 | 458 | 0-131 | 214 | 199 |
| 127.50 | 26°23' | 115°08' | VIII-17 | 0646 | 0700 | 447 | 0-133 | 302 | 302 |
| 130.30 | 26°22' | 113°31' | VIII-18 | 0603 | 0610 | 188 | 0-48 | 233 | 233 |
| 130.35 | 26°15' | 113°48' | VIII-18 | 0321 | 0336 | 415 | 0-134 | 185 | 166 |
| 130.40 | 26°07' | 114°06' | VIII-18 | 0001 | 0015 | 480 | 0-138 | 86 | 86 |
| 130.50 | 25°49' | 114°46' | VIII-17 | 1756 | 1810 | 433 | 0-140 | 37 | 37 |
| 130.60 | 25°28.5' | 115°24' | VIII-17 | 1326 | 1340 | 475 | 0-133 | 27 | 27 |
| 133.25 | 26°04.5' | 112°48' | VIII-18 | 1028 | 1034 | 196 | 0-32 | 705 | 705 |
| 133.30 | 25°54.5' | 113°07.5' | VIII-18 | 1301 | 1316 | 436 | 0-138 | 1420 | 1420 |
| 137.23 | 25°34' | 112°18.5' | VIII-18 | 2018 | 2025 | 156 | 0-59 | 1144 | 1144 |
| 137.30 | 25°20' | 112°45.5' | VIII-18 | 1731 | 1745 | 399 | 0-148 | 821 | 821 |

Plankton Volumes, Cruise 41, September 1952

| Sta. | Position | | (1952) Date | Time (PST) | | Vol. | Depth of haul in meters | Vol. per 1000 C.M. strained | |
|--------|----------|-----------|----------------|------------|------|---------------------------|-------------------------------|--------------------------------|----------|
| | N. lat. | W. long. | | Start | End | water strained C.M. | | Total | Sm. org. |
| 60.55 | 37°48.8' | 123°14.4' | IX-17 | 0218 | 0231 | 391 | 0-63 | 801 | 801 |
| 60.60 | 37°38' | 123°36.5' | IX-17 | 0815 | 0831 | 550 | 0-137 | 207 | 207 |
| 60.70 | 37°19.8' | 124°20' | IX-17 | 1516 | 1531 | 571 | 0-112 | 123 | 123 |
| 60.80 | 37°01.5' | 125°01' | IX-17 | 2116 | 2131 | 641 | 0-104 | 348 | 195 |
| 60.90 | 36°37.5' | 125°47' | IX-18 | 0446 | 0501 | 445 | 0-131 | 171 | 171 |
| 60.100 | 36°16.5' | 126°29.5' | IX-18 | 1026 | 1041 | 576 | 0-128 | 35 | 35 |
| 60.110 | 35°55.5' | 126°11' | IX-18 | 1756 | 1811 | 537 | 0-135 | 48 | 48 |
| 63.52 | 37°18' | 122°35.4' | IX-15 | 0723 | 0731 | 281 | 0-31 | 570 | 570 |
| 63.55 | 37°16.7' | 122°48.8' | IX-15 | 0916 | 0928 | 510 | 0-77 | 137 | 137 |
| 67.50 | 36°49' | 122°04.5' | IX-15 | 0048 | 0100 | 425 | 0-67 | 301 | 301 |
| 67.55 | 36°39' | 122°25.5' | IX-14 | 2146 | 2201 | 527 | 0-118 | 531 | 531 |
| 67.65 | 36°19' | 123°09' | IX-14 | 1541 | 1555 | 512 | 0-107 | 3250 | 3250 |
| 70.51 | 36°10.5' | 121°45.6' | IX-13 | 1107 | 1120 | 533 | 0-56 | 375 | 94 |
| 70.60 | 35°55' | 122°25' | IX-13 | 1555 | 1611 | 531 | 0-128 | 392 | 392 |
| 70.70 | 35°38.5' | 123°06' | IX-13 | 2306 | 2321 | 521 | 0-125 | 269 | 269 |
| 70.80 | 35°14.8' | 123°47.5' | IX-14 | 0436 | 0449 | 435 | 0-114 | 92 | 92 |
| 73.50 | 35°36.8' | 121°16.5' | IX-12 | 1808 | 1817 | 342 | 0-43 | 3148 | 3148 |
| 73.60 | 35°10.8' | 122°00.5' | IX-13 | 0011 | 0026 | 511 | 0-120 | 2002 | 1973 |
| 77.50 | 35°04.4' | 120°51.8' | IX-12 | 1138 | 1151 | 480 | 0-63 | 154 | 154 |
| 77.55 | 34°46.5' | 121°05' | IX-12 | 0611 | 0626 | 424 | 0-133 | 2054 | 2040 |
| 77.65 | 34°30.5' | 121°52.5' | IX-11 | 2256 | 2311 | 471 | 0-153 | 433 | 157 |
| 80.51 | 34°26' | 120°32.8' | IX-9 | 1728 | 1737 | 328 | 0-41 | 104 | 104 |
| 80.55 | 34°18' | 120°50' | IX-9 | 1936 | 1951 | 462 | 0-142 | 324 | 324 |
| 80.60 | 34°07' | 121°12' | IX-10 | 0036 | 0051 | 435 | 0-155 | 368 | 368 |
| 80.70 | 33°45.1' | 121°55.5' | IX-10 | 0726 | 0741 | 516 | 0-147 | 85 | 85 |
| 80.80 | 33°23.9' | 122°37.5' | IX-10 | 1406 | 1421 | 486 | 0-148 | 45 | 45 |
| 80.90 | 33°09' | 123°13' | IX-10 | 1956 | 2011 | 476 | 0-145 | 59 | 59 |
| 80.100 | 32°49.2' | 123°51.5' | IX-11 | 0241 | 0256 | 470 | 0-145 | 43 | 43 |
| 85.38 | 34°00.4' | 119°02.2' | IX-8 | 1327 | 1336 | 372 | 0-42 | 301 | 301 |
| 85.40 | 33°55.8' | 119°09.6' | IX-8 | 1056 | 1111 | 504 | 0-135 | 159 | 139 |
| 85.50 | 33°36.8' | 119°52' | IX-8 | 0516 | 0531 | 527 | 0-123 | 167 | 167 |
| 85.60 | 33°19' | 120°33.5' | IX-7 | 2026 | 2041 | 480 | 0-135 | 333 | 333 |
| 90.28 | 33°28.2' | 117°47' | IX-5 | 2201 | 2216 | 553 | 0-128 | 94 | 94 |
| 90.30 | 33°24.4' | 117°55.3' | IX-6 | 0106 | 0121 | 515 | 0-132 | 113 | 113 |
| 90.37 | 33°09.5' | 118°22.5' | IX-6 | 0511 | 0526 | 518 | 0-142 | 104 | 104 |
| 90.45 | 32°54' | 119°01' | IX-6 | 1056 | 1110 | 525 | 0-124 | 19 | 19 |
| 90.53 | 32°38.3' | 119°29.1' | IX-6 | 1646 | 1701 | 484 | 0-139 | 66 | 66 |
| 90.60 | 32°23' | 119°57' | IX-6 | 2316 | 2331 | 493 | 0-147 | 93 | 93 |
| 90.70 | 32°01' | 120°39.5' | IX-7 | 0646 | 0701 | 533 | 0-143 | 94 | 94 |
| 93.27 | 32°55.7' | 117°18.7' | IX-5 | 1238 | 1247 | 416 | 0-34 | 173 | 173 |
| 93.30 | 32°50.4' | 117°23.2' | IX-5 | 1006 | 1020 | 575 | 0-129 | 313 | 313 |
| 93.40 | 32°29' | 118°06.8' | IX-5 | 0236 | 0251 | 468 | 0-142 | 154 | 154 |
| 93.50 | 32°05.5' | 118°51.5' | IX-4 | 2005 | 2022 | 542 | 0-137 | 129 | 129 |
| 97.30 | 32°15' | 117°09.2' | IX-3 | 1858 | 1907 | 382 | 0-38 | 178 | 178 |
| 97.32 | 32°11.2' | 117°17.2' | IX-3 | 2254 | 2311 | 613 | 0-125 | 147 | 147 |
| 97.40 | 31°52.8' | 117°51' | IX-4 | 0516 | 0531 | 637 | 0-121 | 314 | 314 |
| 97.50 | 31°30.2' | 118°32.1' | IX-4 | 1211 | 1226 | 507 | 0-144 | 47 | 47 |

Plankton Volumes, Cruise 41, September 1952 (cont'd)

| Sta. | Position | | (1952) 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. |
| 100.29 | 31°42.2' | 116°43.5' | IX-3 | 2033 | 2040 | 284 | 0-67 | 543 | 543 |
| 100.30 | 31°40.5' | 116°46.7' | IX-3 | 2216 | 2231 | 548 | 0-116 | 221 | 221 |
| 100.40 | 31°21' | 117°27' | IX-4 | 0401 | 0415 | 471 | 0-140 | 138 | 138 |
| 100.50 | 31°01' | 118°07' | IX-4 | 0941 | 0955 | 456 | 0-141 | 140 | 140 |
| 100.60 | 30°41' | 118°48' | IX-4 | 1521 | 1536 | 504 | 0-143 | 38 | 38 |
| 100.70 | 30°21' | 119°27' | IX-4 | 2136 | 2151 | 506 | 0-134 | 235 | 67 |
| 100.80 | 30°01' | 120°07' | IX-5 | 0346 | 0400 | 445 | 0-143 | 79 | 79 |
| 103.30 | 31°05' | 116°25' | IX-6 | 0548 | 0555 | 237 | 0-49 | 668 | 668 |
| 103.35 | 30°57' | 116°46' | IX-6 | 0301 | 0316 | 434 | 0-149 | 226 | 207 |
| 103.40 | 30°48.5' | 117°07.5' | IX-5 | 2251 | 2306 | 488 | 0-139 | 197 | 197 |
| 107.32 | 30°25.8' | 116°11' | IX-6 | 1056 | 1110 | 481 | 0-134 | 482 | 482 |
| 107.35 | 30°20' | 116°23' | IX-6 | 1321 | 1335 | 418 | 0-150 | 266 | 266 |
| 107.40 | 30°11' | 116°43' | IX-6 | 1641 | 1655 | 460 | 0-141 | 150 | 150 |
| 110.33 | 29°50.5' | 115°52.5' | IX-7 | 1627 | 1633 | 196 | 0-61 | 193 | 193 |
| 110.35 | 29°46.5' | 116°00' | IX-7 | 1426 | 1440 | 487 | 0-131 | 99 | 99 |
| 110.40 | 29°34.5' | 116°21.4' | IX-7 | 1131 | 1146 | 433 | 0-146 | 53 | 53 |
| 110.50 | 29°17.5' | 117°02.5' | IX-7 | 0721 | 0735 | 479 | 0-136 | 33 | 33 |
| 110.60 | 28°59' | 117°45' | IX-7 | 0111 | 0126 | 478 | 0-140 | 151 | 134 |
| 113.30 | 29°22.5' | 115°17.7' | IX-7 | 2044 | 2049 | 163 | 0-39 | 726 | 652 |
| 113.40 | 29°02' | 115°58.5' | IX-8 | 0146 | 0200 | 436 | 0-143 | 241 | 241 |
| 117.26 | 28°56' | 114°41' | IX-8 | 1233 | 1240 | 245 | 0-69 | 49 | 49 |
| 117.30 | 28°49' | 114°57' | IX-8 | 1043 | 1050 | 251 | 0-64 | 179 | 120 |
| 117.40 | 28°28' | 114°35.5' | IX-8 | 0626 | 0640 | 431 | 0-143 | 110 | 110 |
| 120.25 | 28°23' | 114°14.5' | IX-8 | 2053 | 2059 | 206 | 0-28 | 24 | 24 |
| 120.30 | 28°13' | 114°34' | IX-9 | 0003 | 0010 | 229 | 0-45 | 232 | 232 |
| 120.35 | 28°02' | 114°58' | IX-9 | 0328 | 0333 | 154 | 0-34 | 78 | 78 |
| 120.45 | 27°43' | 115°33' | IX-9 | 1645 | 1700 | 482 | 0-150 | 120 | 31 |
| 120.50 | 27°32.5' | 115°53' | IX-9 | 2025 | 2040 | 454 | 0-143 | 212 | 212 |
| 120.60 | 27°13' | 116°32' | IX-10 | 0216 | 0231 | 441 | 0-138 | 159 | 159 |
| 120.70 | 26°52' | 117°10.5' | IX-10 | 0731 | 0745 | 412 | 0-153 | 46 | 46 |
| 120.80 | 26°32' | 117°49' | IX-10 | 1311 | 1326 | 461 | 0-141 | 35 | 35 |
| 120.90 | 26°13' | 118°28' | IX-10 | 1841 | 1855 | 461 | 0-152 | 2238 | 2238 |
| 123.37 | 27°21' | 114°40' | IX-11 | 1924 | 1928 | 139 | 0-34 | 375 | 375 |
| 123.40 | 27°15' | 114°47' | IX-11 | 1756 | 1811 | 488 | 0-150 | 178 | 178 |
| 123.50 | 27°01' | 115°31.5' | IX-11 | 1256 | 1311 | 506 | 0-130 | 49 | 36 |
| 127.34 | 26°55.3' | 114°06' | IX-11 | 2328 | 2334 | 178 | 0-61 | 315 | 315 |
| 127.40 | 26°43.5' | 114°29.5' | IX-12 | 0321 | 0336 | 470 | 0-137 | 174 | 174 |
| 127.50 | 26°23' | 115°10' | IX-12 | 0831 | 0845 | 443 | 0-145 | 23 | 23 |
| 130.30 | 26°29' | 113°29' | IX-13 | 0653 | 0659 | 203 | 0-51 | 310 | 310 |
| 130.35 | 26°14' | 113°45.5' | IX-13 | 0418 | 0425 | 250 | 0-69 | 68 | 68 |
| 130.40 | 26°06' | 114°05.5' | IX-13 | 0136 | 0150 | 466 | 0-136 | 90 | 90 |
| 130.50 | 25°49' | 114°46' | IX-12 | 1951 | 2006 | 423 | 0-151 | 45 | 45 |
| 130.60 | 25°29' | 115°24' | IX-12 | 1441 | 1456 | 452 | 0-142 | 31 | 31 |
| 133.25 | 26°04.5' | 112°47' | IX-13 | 1104 | 1108 | 130 | 0-30 | 123 | 123 |
| 133.30 | 25°54.5' | 113°07.5' | IX-13 | 1316 | 1331 | 443 | 0-141 | 1175 | 1175 |
| 137.23 | 25°34.5' | 112°19' | IX-13 | 2044 | 2048 | 150 | 0-25 | 133 | 133 |
| 137.30 | 25°23' | 112°47.5' | IX-13 | 1737 | 1750 | 438 | 0-136 | 110 | 110 |

Plankton Volumes, Cruise 42, October 1952

| Sta. | Position | | Time (PST) | | Vol. water strained C.M. | Depth of haul in meters | Vol. per 1000 C.M. strained | | |
|--------|----------|-----------|--------------|-------|--------------------------|-------------------------|-----------------------------|-----------|-------------|
| | N. lat. | W. long. | Date (1952) | Start | | | End | Total cc. | Sm.org. cc. |
| 60.55 | 37°47.5' | 123°16' | X-19 | 1213 | 1221 | 296 | 0-64 | 785 | 731 |
| 60.60 | 37°37.8' | 123°37.8' | X-19 | 0921 | 0936 | 523 | 0-129 | 526 | 505 |
| 60.70 | 37°19.5' | 124°23' | X-19 | 0326 | 0341 | 540 | 0-134 | 382 | 248 |
| 60.80 | 37°04.5' | 125°07' | X-18 | 2156 | 2211 | 474 | 0-131 | 141 | 141 |
| 60.90 | 36°46' | 125°46' | X-18 | 1711 | 1726 | 519 | 0-125 | 108 | 108 |
| 60.100 | 36°27' | 126°30' | X-18 | 1211 | 1226 | 518 | 0-144 | 48 | 48 |
| 60.110 | 36°12' | 127°07' | X-18 | 0801 | 0816 | 521 | 0-130 | 36 | 36 |
| 63.52 | 37°19' | 122°36' | X-19 | 1658 | 1706 | 279 | 0-67 | 25769 | 79 |
| 63.55 | 37°14' | 122°50.5' | X-19 | 1901 | 1916 | 516 | 0-144 | 410 | 410 |
| 67.50 | | | Not occupied | | | | | | |
| 67.55 | 36°39' | 122°26' | X-19 | 2331 | 2345 | 420 | 0-146 | 391 | 391 |
| 67.65 | 36°19' | 123°09' | X-20 | 0416 | 0430 | 463 | 0-143 | 829 | 829 |
| 70.51 | | | Not occupied | | | | | | |
| 70.60 | 35°52' | 122°23' | X-20 | 2231 | 2246 | 494 | 0-144 | 441 | 441 |
| 70.70 | 35°33' | 123°06' | X-20 | 1636 | 1651 | 494 | 0-144 | 225 | 225 |
| 70.80 | 35°17' | 123°46' | X-20 | 1136 | 1150 | 461 | 0-141 | 163 | 163 |
| 73.50 | 35°36.5' | 121°17.6' | X-21 | 0822 | 0833 | 391 | 0- ? | 187 | 82 |
| 73.60 | 35°18' | 121°58' | X-21 | 0311 | 0326 | 438 | 0-137 | 283 | 283 |
| 77.50 | | | Not occupied | | | | | | |
| 77.55 | 37°52.5' | 121°17.5' | X-21 | 1256 | 1311 | 468 | 0-152 | 258 | 258 |
| 77.65 | 34°34' | 121°55' | X-21 | 1741 | 1756 | 468 | 0-149 | 128 | 128 |
| 80.51 | 34°26.5' | 120°32.5' | X-15 | 1314 | 1321 | 237 | 0-82 | 110 | 110 |
| 80.55 | 34°19' | 120°48' | X-15 | 1541 | 1555 | 488 | 0-148 | 275 | 275 |
| 80.60 | 34°09' | 121°09' | X-15 | 1916 | 1931 | 547 | 0-141 | 282 | 260 |
| 80.70 | 33°49' | 121°51' | X-16 | 0031 | 0046 | 515 | 0-146 | 152 | 152 |
| 80.80 | 33°29' | 122°33' | X-16 | 0606 | 0620 | 568 | 0-141 | 32 | 32 |
| 80.90 | 33°09' | 123°13' | X-16 | 1101 | 1116 | 482 | 0-148 | 25 | 25 |
| 80.100 | 32°48' | 123°54' | X-16 | 1616 | 1631 | 432 | 0-139 | 42 | 28 |
| 85.38 | 34°00.5' | 119°02.5' | X-14 | 1643 | 1656 | 400 | 0-78 | 287 | 232 |
| 85.40 | 33°54' | 119°10.5' | X-14 | 1827 | 1841 | 447 | 0-151 | 195 | 195 |
| 85.50 | 33°40' | 119°54.2' | X-14 | 2302 | 2313 | 342 | 0-111 | 392 | 392 |
| 85.60 | 33°17.5' | 120°33' | X-15 | 0446 | 0500 | 492 | 0-147 | 108 | 108 |
| 90.28 | 33°29.4' | 117°47' | X-14 | 0906 | 0921 | 473 | 0-141 | 72 | 72 |
| 90.30 | 33°25.5' | 117°55' | X-14 | 0737 | 0751 | 432 | 0-153 | 42 | 42 |
| 90.37 | | | Not occupied | | | | | | |
| 90.45 | 32°54.5' | 118°56' | X-13 | 1331 | 1344 | 397 | 0-135 | 176 | 176 |
| 90.53 | 32°38.5' | 119°29' | X-13 | 0856 | 0911 | 475 | 0-141 | 122 | 122 |
| 90.60 | 32°28' | 119°51' | X-13 | 0510 | 0526 | 573 | 0-130 | 72 | 72 |
| 90.70 | 32°04' | 120°40' | X-12 | 2251 | 2306 | 498 | 0-136 | 96 | 96 |
| 93.27 | 32°55' | 117°21' | X-11 | 2246 | 2301 | 490 | 0-138 | 126 | 126 |
| 93.30 | 32°49.5' | 117°32.5' | X-12 | 0150 | 0206 | 580 | 0-132 | 79 | 79 |
| 93.40 | 32°30' | 118°12' | X-12 | 0651 | 0707 | 537 | 0-141 | 63 | 63 |
| 93.50 | 32°11' | 118°53' | X-12 | 1156 | 1212 | 444 | 0-147 | 36 | 36 |
| 97.30 | | | Not occupied | | | | | | |
| 97.32 | 32°11' | 117°18.5' | X-10 | 0600 | 0616 | 452 | 0-144 | 75 | 75 |
| 97.40 | 31°55' | 117°50' | X-10 | 0025 | 0040 | 436 | 0-139 | 243 | 197 |
| 97.50 | 31°35' | 118°30' | X-9 | 1825 | 1841 | 480 | 0-141 | 100 | 100 |

Plankton Volumes, Cruise 42, October 1952 (cont'd)

| Sta. | Position | | (1952) 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. |
| 100.29 | 31°42' | 116°45.7' | X-7 | 2111 | 2126 | 381 | 0-148 | 176 | 176 |
| 100.30 | 31°40' | 116°46.5' | X-7 | 2228 | 2236 | 260 | 0-73 | 184 | 184 |
| 100.40 | 31°19' | 117°26' | X-8 | 0454 | 0510 | 626 | 0-133 | 88 | 74 |
| 100.50 | 31°01' | 118°07' | X-8 | 1031 | 1046 | 448 | 0-141 | 207 | 207 |
| 100.60 | 30°41' | 118°47.5' | X-8 | 1646 | 1659 | 482 | 0-142 | 137 | 137 |
| 100.70 | 30°20.5' | 119°27' | X-8 | 2211 | 2226 | 422 | 0-138 | 38 | 38 |
| 100.80 | 30°01.5' | 120°07' | X-9 | 0426 | 0440 | 504 | 0-126 | 48 | 48 |
| 103.30 | 31°04.2' | 116°25' | X-8 | 1404 | 1408 | (165) | 0-31 | 158 | 158 |
| 103.35 | 30°53.8' | 116°47.5' | X-8 | 0931 | 0946 | 544 | 0-120 | 130 | 121 |
| 103.40 | 30°45.9' | 117°06.2' | X-8 | 0424 | 0440 | 590 | 0-135 | 122 | 122 |
| 107.32 | 30°26.1' | 116°11.7' | X-8 | 1923 | 1929 | (199) | 0-39 | 161 | 161 |
| 107.35 | 30°18' | 116°23.5' | X-8 | 2211 | 2227 | 482 | 0-130 | 126 | 126 |
| 107.40 | | | Occupied. No biological data taken | | | | | | |
| 110.33 | 29°48.5' | 115°51' | X-10 | 0928 | 0934 | (194) | 0-40 | 356 | 356 |
| 110.35 | 29°42.1' | 115°55.5' | X-10 | 0740 | 0748 | 339 | 0-58 | 83 | 83 |
| 110.40 | 29°33' | 116°16' | X-10 | 0346 | 0402 | 580 | 0-127 | 79 | 79 |
| 110.50 | 29°13.8' | 116°56.5' | X-9 | 2041 | 2056 | 480 | 0-134 | 73 | 73 |
| 110.60 | 28°55' | 117°37.5' | X-9 | 1341 | 1357 | 459 | 0-137 | 70 | 70 |
| 113.30 | 29°22.5' | 115°22.2' | X-10 | 1439 | 1445 | (252) | 0-34 | 72 | 72 |
| 113.40 | 29°02' | 115°58.5' | X-10 | 2046 | 2101 | (446) | 0-150 | 224 | 224 |
| 117.26 | 28°54' | 114°39.5' | X-11 | 1133 | 1140 | 237 | 0-38 | 30 | 30 |
| 117.30 | 28°47' | 114°55.8' | X-11 | 0858 | 0905 | 240 | 0-52 | 259 | 259 |
| 117.40 | 28°28.9' | 115°37.2' | X-11 | 0241 | 0256 | 556 | 0-118 | 65 | 65 |
| 120.25 | 28°24.1' | 114°15.7' | X-11 | 1623 | 1629 | 179 | 0-42 | 34 | 34 |
| 120.30 | 28°11.2' | 114°35.4' | X-13 | 0033 | 0039 | (242) | 0-36 | 50 | 50 |
| 120.35 | 27°59.2' | 114°56.8' | X-13 | 0413 | 0419 | 237 | 0-55 | 114 | 114 |
| 120.45 | 27°41.8' | 115°36' | X-13 | 1605 | 1621 | (561) | 0-132 | 46 | 46 |
| 120.50 | 27°32.5' | 115°51.5' | X-13 | 2016 | 2030 | 525 | 0-133 | 242 | 242 |
| 120.60 | 27°11' | 116°30' | X-14 | 0301 | 0316 | 584 | 0-116 | 86 | 86 |
| 120.70 | 26°50.5' | 117°09' | X-14 | 0931 | 0946 | 502 | 0-133 | 119 | 52 |
| 120.80 | 26°28.6' | 117°47.5' | X-14 | 1606 | 1619 | 516 | 0-123 | 31 | 31 |
| 120.90 | 26°08' | 118°25.8' | X-14 | 2251 | 2306 | 450 | 0-137 | 67 | 67 |
| 123.37 | 27°23.8' | 114°39.3' | X-16 | 0708 | 0714 | 215 | 0-35 | 56 | 56 |
| 123.40 | 27°16' | 114°56.3' | X-16 | 0421 | 0436 | 569 | 0-126 | 74 | 74 |
| 123.50 | 26°54' | 115°37.2' | X-15 | 2056 | 2111 | 519 | 0-125 | 260 | 168 |
| 127.34 | 26°55.2' | 114°06' | X-16 | 1353 | 1359 | 232 | 0-36 | 86 | 86 |
| 127.40 | 26°43.3' | 114°29.5' | X-16 | 1756 | 1811 | 581 | 0-116 | 114 | 83 |
| 127.50 | 26°18.5' | 115°10' | X-17 | 0116 | 0131 | 536 | 0-131 | 121 | 121 |
| 130.30 | 26°29.5' | 113°28.1' | X-18 | 0458 | 0504 | 286 | 0-36 | 228 | 228 |
| 130.35 | 26°18.5' | 113°43.2' | X-18 | 0158 | 0206 | 280 | 0-66 | 164 | 164 |
| 130.40 | 26°09' | 114°05' | X-17 | 2221 | 2236 | 429 | 0-138 | 163 | 112 |
| 130.50 | 25°49' | 114°46' | X-17 | 1546 | 1601 | 555 | 0-131 | 54 | 54 |
| 130.60 | 25°19.5' | 115°26.5' | X-17 | 0926 | 0941 | 566 | 0-117 | 18 | 18 |
| 133.25 | 26°04.5' | 112°48' | X-18 | 1038 | 1045 | 218 | 0-57 | 105 | 105 |
| 133.30 | 25°54.8' | 113°07.5' | X-18 | 1303 | 1311 | 313 | 0-58 | 70 | 70 |
| 137.23 | 25°34.2' | 112°18.6' | X-18 | 2223 | 2229 | 228 | 0-39 | 206 | 206 |
| 137.30 | 25°20.5' | 112°44.4' | X-18 | 1816 | 1831 | 440 | 0-137 | 152 | 73 |

Plankton Volumes, Cruise 43, November 1952

| Sta. | Position | | (1952) 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. |
| 60.55 | 37°47.5' | 123°15' | XI-20 | 0148 | 0155 | 247 | 0-51 | 551 | 551 |
| 60.60 | 37°37' | 123°37' | XI-20 | 0441 | 0456 | 480 | 0-144 | 385 | 385 |
| 60.70 | 37°17' | 124°21' | XI-20 | 1057 | 1111 | 470 | 0-137 | 292 | 238 |
| 60.80 | 36°57' | 125°04' | XI-20 | 1756 | 1811 | 513 | 0-141 | 127 | 127 |
| 60.90 | 36°37' | 125°47' | XI-20 | 0036 | 0051 | 492 | 0-147 | 159 | 159 |
| 60.100 | 36°17' | 126°30' | XI-21 | 0651 | 0706 | 557 | 0-138 | 97 | 97 |
| 60.110 | 35°57' | 127°12' | XI-21 | 1232 | 1246 | 489 | 0-140 | 164 | 164 |
| 63.52 | 37°19' | 122°36.2' | XI-19 | 1808 | 1815 | 232 | 0-54 | 216 | 216 |
| 63.55 | 37°14' | 122°49.5' | XI-19 | 2006 | 2020 | 530 | 0-142 | 453 | 453 |
| 67.50 | 36°49' | 122°04.6' | XI-19 | 1258 | 1305 | 252 | 0-54 | 198 | 198 |
| 67.55 | 36°39' | 122°26' | XI-19 | 0911 | 0926 | 542 | 0-142 | 443 | 259 |
| 67.65 | 36°19' | 123°09' | XI-19 | 0226 | 0240 | 521 | 0-139 | 192 | 144 |
| 70.51 | 36°10.4' | 121°45.7' | XI-17 | 1756 | 1811 | 503 | 0-127 | 199 | 199 |
| 70.60 | 35°53' | 122°23' | XI-18 | 0126 | 0141 | 527 | 0-140 | 294 | 224 |
| 70.70 | 35°33' | 123°06' | XI-18 | 0836 | 0851 | 499 | 0-140 | 168 | 168 |
| 70.80 | 35°13' | 123°48' | XI-18 | 1341 | 1356 | 507 | 0-139 | 87 | 87 |
| 73.50 | | | Not occupied | | | | | | |
| 73.60 | | | Not occupied | | | | | | |
| 77.50 | | | Not occupied | | | | | | |
| 77.55 | 34°54.5' | 121°13' | XI-14 | 2335 | 2351 | 510 | 0-147 | 161 | 161 |
| 77.65 | 34°34' | 121°55' | XI-14 | 1621 | 1636 | 513 | 0-139 | 261 | 261 |
| 80.51 | 34°26.5' | 120°32.5' | XI-12 | 1359 | 1409 | 334 | 0-58 | 48 | 48 |
| 80.55 | 34°19' | 120°48' | XI-12 | 1636 | 1651 | 507 | 0-138 | 138 | 138 |
| 80.60 | 34°09' | 121°09' | XI-12 | 2021 | 2036 | 514 | 0-137 | 93 | 93 |
| 80.70 | 33°49' | 121°51' | XI-13 | 0256 | 0311 | 530 | 0-141 | 49 | 49 |
| 80.80 | 33°29' | 122°32' | XI-13 | 0921 | 0936 | 497 | 0-142 | 125 | 24 |
| 80.90 | 33°09' | 123°13' | XI-13 | 1556 | 1611 | 494 | 0-139 | 20 | 20 |
| 80.100 | 32°49' | 123°54' | XI-13 | 2121 | 2136 | 478 | 0-144 | 59 | 59 |
| 85.38 | 34°01' | 119°02.3' | XI-12 | 0321 | 0336 | 534 | 0-137 | 86 | 86 |
| 85.40 | 33°57' | 119°10.5' | XI-12 | 0131 | 0146 | 523 | 0-133 | 111 | 111 |
| 85.50 | 33°37' | 119°52' | XI-11 | 1931 | 1946 | 538 | 0-139 | 149 | 149 |
| 85.60 | 33°17' | 120°33.5' | XI-11 | 1256 | 1311 | 484 | 0-142 | 29 | 29 |
| 90.28 | 33°28.5' | 117°46.7' | XI-9 | 1103 | 1110 | 234 | 0-55 | 120 | 120 |
| 90.30 | 33°24.5' | 117°55' | XI-9 | 2306 | 2321 | 532 | 0-142 | 94 | 94 |
| 90.37 | 33°11' | 118°23.5' | XI-10 | 0316 | 0331 | 505 | 0-138 | 111 | 111 |
| 90.45 | 32°54.5' | 118°56' | XI-10 | 0851 | 0906 | 481 | 0-143 | 92 | 92 |
| 90.53 | 32°38.5' | 119°29' | XI-10 | 1409 | 1424 | 505 | 0-141 | 265 | 265 |
| 90.60 | 32°25' | 119°57.5' | XI-10 | 1906 | 1920 | 519 | 0-136 | 162 | 162 |
| 90.70 | 32°04.5' | 120°39' | XI-10 | 0121 | 0136 | 517 | 0-141 | 101 | 101 |
| 93.27 | 32°56' | 117°19.2' | XI-9 | 0526 | 0541 | 462 | 0-136 | 593 | 160 |
| 93.30 | 32°50' | 117°31.5' | XI-9 | 0141 | 0156 | 500 | 0-140 | 100 | 100 |
| 93.40 | 32°30' | 118°12.5' | XI-8 | 1944 | 2000 | 584 | 0-135 | 130 | 130 |
| 93.50 | 32°10' | 118°53.5' | XI-8 | 1331 | 1346 | 518 | 0-137 | 46 | 46 |
| 97.30 | 32°15.4' | 117°08.8' | XI-7 | 1703 | 1709 | 238 | 0-38 | 93 | 93 |
| 97.32 | 32°11.5' | 117°17' | XI-7 | 1841 | 1856 | 563 | 0-136 | 96 | 96 |
| 97.40 | 31°55.5' | 117°50' | XI-8 | 0011 | 0026 | 579 | 0-139 | 155 | 155 |
| 97.50 | 31°35.5' | 118°30.5' | XI-8 | 0646 | 0701 | 589 | 0-135 | 51 | 51 |
| 100.29 | 31°42' | 116°44.5' | XI-5 | 2021 | 2032 | 423 | 0-54 | 118 | 118 |

Plankton Volumes, Cruise 43, November 1952 (cont'd)

| Sta. | Position | | (1952) Date | Time (PST) | | Vol. | Depth of haul in meters | Vol. per 1000 C.M. strained | |
|--------|----------|-----------|----------------|------------|--------------------------|------------------------|----------------------------|--------------------------------|---------|
| | N. lat. | W. long. | | Start | End | water strained C.M. | | Total | Sm.org. |
| 100.30 | 31°40.2' | 116°47' | XI-5 | 2126 | 2141 | 522 | 0-113 | 138 | 138 |
| 100.40 | 31°21' | 117°27' | XI-6 | 0251 | 0306 | 604 | 0-109 | 126 | 126 |
| 100.50 | 31°01' | 118°06' | XI-6 | 0756 | 0811 | (483) | 0-133 | 91 | 91 |
| 100.60 | 30°41' | 118°47' | XI-6 | 1216 | 1230 | 438 | 0-140 | 69 | 69 |
| 100.70 | 30°20.5' | 119°27' | XI-6 | 1721 | 1736 | 447 | 0-134 | 76 | 76 |
| 100.80 | 30°01' | 120°06.5' | XI-6 | 2226 | 2241 | 532 | 0-106 | 60 | 60 |
| 103.30 | 31°05' | 116°25' | XI-7 | 1924 | 1927 | 111 | 0-26 | 109 | 109 |
| 103.35 | 30°55.5' | 116°45' | XI-7 | 1706 | 1720 | 476 | 0-127 | 59 | 59 |
| 103.40 | 30°45.5' | 117°05.5' | XI-7 | 1426 | 1440 | 505 | 0-123 | 44 | 44 |
| 107.32 | 30°25.5' | 116°12' | XI-7 | 2351 | 0006 | 573 | 0-90 | 101 | 101 |
| 107.35 | 30°20' | 116°23' | XI-8 | 0156 | 0210 | 441 | 0-138 | 127 | 127 |
| 107.40 | | | Occupied. | | Sample lost | | | | |
| 110.33 | 29°50.5' | 115°52' | XI-9 | 0424 | 0428 | (173) | 0-35 | 370 | 370 |
| 110.35 | 29°39' | 116°13' | XI-9 | 0201 | 0216 | 527 | 0-131 | 80 | 80 |
| 110.40 | 29°30' | 116°33' | XI-8 | 2241 | 2256 | 459 | 0-144 | 83 | 83 |
| 110.50 | 29°17' | 117°01' | XI-8 | 1801 | 1815 | 489 | 0-127 | 49 | 49 |
| 110.60 | 29°00' | 117°33' | XI-8 | 1346 | 1400 | 466 | 0-136 | 86 | 86 |
| 113.30 | 29°22.3' | 115°18' | XI-9 | 0909 | 0914 | 168 | 0-37 | 107 | 107 |
| 113.35 | 29°12' | 115°39' | XI-9 | 1211 | 1226 | 426 | 0-149 | 47 | 47 |
| 113.40 | 29°02' | 115°58.5' | XI-9 | 1526 | 1540 | 455 | 0-127 | 62 | 62 |
| 117.26 | 28°56' | 114°41' | XI-10 | 0819 | 0823 | 118 | 0-39 | 85 | 85 |
| 117.30 | 28°48' | 114°56.5' | XI-10 | 0607 | 0614 | 196 | 0-49 | 92 | 92 |
| 117.35 | 28°38' | 115°16' | XI-9 | 2301 | 2316 | 495 | 0-112 | 73 | 73 |
| 117.40 | 28°28' | 115°35.5' | XI-9 | 2016 | 2031 | 468 | 0-120 | 90 | 90 |
| 120.25 | 28°23' | 114°15' | XI-10 | 1513 | 1518 | 165 | 0-44 | 36 | 36 |
| 120.30 | 28°13' | 114°34' | XI-10 | 2138 | 2144 | 198 | 0-36 | 81 | 81 |
| 120.35 | 28°03' | 114°54' | XI-11 | 0113 | 0122 | 230 | 0-47 | 113 | 113 |
| 120.45 | 27°43' | 115°33' | XI-11 | 2326 | 2341 | 507 | 0-116 | 107 | 107 |
| 120.50 | 27°31.5' | 115°51' | XI-12 | 0221 | 0236 | 494 | 0-124 | 61 | 61 |
| 120.60 | 27°15' | 116°34' | XI-12 | 0721 | 0735 | 500 | 0-120 | 56 | 56 |
| 120.70 | 26°52' | 117°10' | XI-12 | 1156 | 1210 | 460 | 0-144 | 30 | 30 |
| 120.80 | 26°32.5' | 117°48.2' | XI-12 | 1641 | 1655 | 490 | 0-119 | 24 | 24 |
| 120.90 | 26°13' | 118°28' | XI-12 | 2131 | 2146 | 462 | 0-134 | 43 | 43 |
| 123.37 | 27°24' | 114°39.5' | XI-13 | 2044 | 2052 | 248 | 0-32 | 105 | 105 |
| 123.40 | 27°18' | 114°47' | XI-13 | 1856 | 1910 | 395 | 0-150 | 61 | 61 |
| 123.50 | 26°58' | 115°31' | XI-13 | 1416 | 1430 | 455 | 0-130 | 62 | 62 |
| 127.34 | 26°55.5' | 114°06' | XI-14 | 0818 | 0824 | 206 | 0-26 | 407 | 407 |
| 127.40 | | | Occupied. | | No biological data taken | | | | |
| 127.50 | 26°23' | 115°08' | XI-14 | 1705 | 1720 | 462 | 0-141 | 108 | 108 |
| 130.30 | 26°29' | 113°29' | XI-15 | 1508 | 1516 | 228 | 0-36 | 141 | 141 |
| 130.35 | 26°19' | 113°49' | XI-15 | 1227 | 1238 | 392 | 0-110 | 84 | 84 |
| 130.40 | 26°14.5' | 114°10.7' | XI-15 | 0941 | 0956 | 582 | 0-93 | 83 | 83 |
| 130.50 | 25°50' | 114°46' | XI-15 | 0431 | 0446 | 492 | 0-125 | 138 | 138 |
| 130.60 | 25°29' | 115°23.5' | XI-14 | 2326 | 2341 | 457 | 0-138 | 101 | 101 |
| 133.25 | 26°05' | 112°48' | XI-15 | 1944 | 1947 | 129 | 0-27 | 232 | 232 |
| 133.30 | 25°54.5' | 113°07.5' | XI-15 | 2218 | 2223 | 192 | 0-38 | 83 | 83 |
| 137.23 | 25°34' | 112°19' | XI-16 | 0544 | 0548 | 154 | 0-32 | 117 | 117 |
| 137.30 | 25°20' | 112°45.5' | XI-16 | 0241 | 0256 | 452 | 0-151 | 80 | 80 |

Stations Occupied During Special Cruises, 1952 ⁽¹⁾

| Sta. | Position | | Time (PST) | | Vol. water strained C.M. | Depth of haul in meters | Vol. per 1000 C.M. strained | | |
|---------------------------|----------|-----------|-------------|-------|--------------------------|-------------------------|-----------------------------|-----------|--------------|
| | N. lat. | W. long. | Date (1952) | Start | | | End | Total cc. | Sm. org. cc. |
| Cruise 38: ⁽²⁾ | | | | | | | | | |
| 87.35 | 33°50' | 118°37' | VI-13 | 2229 | 2337 | 251 | 0-71 | 295 | 295 |
| 90.28 | 33°28.5' | 117°46.7' | VI-12 | 2048 | 2103 | 510 | 0-136 | 332 | 332 |
| 90.30 | 33°24.5' | 117°55' | VI-6 | 1751 | 1806 | 538 | 0-135 | 111 | 111 |
| 90.30 | 33°24.5' | 117°55' | VI-12 | 1848 | 1903 | 503 | 0-137 | 173 | 173 |
| 90.31 | 33°23' | 117°59' | VI-12 | 1748 | 1803 | 477 | 0-143 | 99 | 99 |
| 90.33 | 33°19' | 118°07' | VI-12 | 1634 | 1648 | 498 | 0-139 | 166 | 166 |
| 90.35 | 33°15' | 118°15' | VI-12 | 1516 | 1531 | 478 | 0-141 | 211 | 211 |
| 90.37 | 33°10.7' | 118°23' | VI-6 | 2126 | 2141 | 527 | 0-139 | 471 | 471 |
| 90.37 | 33°11' | 118°23.5' | VI-12 | 0856 | 0911 | 519 | 0-139 | 150 | 150 |
| 90.39 | 33°06.5' | 118°32.5' | VI-12 | 1054 | 1109 | 479 | 0-142 | 173 | 173 |
| 90.41 | 33°03' | 118°40' | VI-12 | 1206 | 1221 | 470 | 0-145 | 283 | 283 |
| 90.45 | 32°54.5' | 118°56' | VI-7 | 0111 | 0126 | 527 | 0-138 | 374 | 374 |
| 90.53 | 32°38.5' | 119°29' | VI-7 | 0516 | 0531 | 494 | 0-144 | 154 | 142 |
| 90.60 | 32°25' | 119°52.5' | VI-7 | 0901 | 0915 | 488 | 0-140 | 96 | 96 |
| 93.30 | 32°50' | 117°31.5' | VI-6 | 1226 | 1241 | 549 | 0-135 | 113 | 113 |
| 93.40 | 32°30' | 118°12.5' | VI-12 | 0316 | 0331 | 487 | 0-144 | 480 | 480 |
| 93.50 | 32°10' | 118°53.5' | VI-11 | 2111 | 2126 | 497 | 0-140 | 221 | 221 |
| 93.60 | 31°50' | 119°34' | VI-7 | 1356 | 1411 | 476 | 0-144 | 34 | 34 |
| 97.30 | 32°15.4' | 117°08.8' | VI-10 | 1324 | 1328 | 136 | 0-36 | 7647 | 7647 |
| 97.32 | 32°11.5' | 117°17' | VI-10 | 1433 | 1448 | 467 | 0-142 | 143 | 143 |
| 97.40 | 31°55.5' | 117°50' | VI-10 | 1911 | 1926 | 468 | 0-142 | 94 | 94 |
| 97.50 | 31°35.5' | 118°30.5' | VI-11 | 1135 | 1150 | 488 | 0-144 | 205 | 193 |
| 97.60 | 31°15.5' | 119°10.5' | VI-7 | 1836 | 1850 | 500 | 0-139 | 170 | 170 |
| 100.29 | 31°42.1' | 116°42.5' | VI-9 | 0729 | 0734 | 214 | 0-50 | 285 | 136 |
| 100.30 | 31°40' | 116°46.5' | VI-9 | 0641 | 0656 | 534 | 0-135 | 238 | 238 |
| 100.35 | 31°30' | 117°07' | VI-9 | 0336 | 0351 | 467 | 0-139 | 135 | 135 |
| 100.40 | 31°21' | 117°27' | VI-10 | 2351 | 0006 | 465 | 0-144 | 150 | 150 |
| 100.50 | 31°01' | 118°07' | VI-11 | 0552 | 0607 | 505 | 0-142 | 184 | 184 |
| 100.60 | 30°41' | 118°47.5' | VI-7 | 2301 | 2316 | 476 | 0-143 | 126 | 126 |
| 103.30 | 31°05' | 116°25' | VI-8 | 2148 | 2153 | 214 | 0-52 | 700 | 700 |
| 103.35 | 30°55.5' | 116°45' | VI-8 | 1816 | 1831 | 499 | 0-140 | 138 | 138 |
| 103.40 | 30°45.5' | 117°05.5' | VI-8 | 1526 | 1541 | 509 | 0-144 | 79 | 79 |
| 103.50 | 30°25' | 117°45' | VI-8 | 0910 | 0926 | 501 | 0-142 | 128 | 128 |
| 103.60 | 30°06' | 118°25.5' | VI-8 | 0346 | 0401 | 494 | 0-138 | 131 | 131 |

(1) Not all samples collected on special cruises are included. The principal omission is the three-vessel "grid" cruise made during April.

(2) Many of these stations were occupied on the regular June survey cruise, as well.

Stations Occupied During Special Cruises, 1952 (cont'd)

| Sta. | Position | | Time (PST) | | Vol. water strained C.M. | Depth of haul in meters | Vol. per 1000 C.M. strained | | |
|---------------------|----------|-----------|----------------|-------|-----------------------------------|-------------------------------|--------------------------------|--------------|-----------------|
| | N. lat. | W. long. | (1952) Date | Start | | | End | Total cc. | Sm. org. cc. |
| Cruise 40: (3) | | | | | | | | | |
| 113.30 | 29°22.3' | 115°17.3' | VIII-12 | 0550 | 0554 | 162 | 0-34 | 49 | 49 |
| 113.35 | 29°12' | 115°39' | VIII-12 | 0837 | 0851 | 487 | 0-125 | 49 | 49 |
| 115.26 | 29°11.2' | 114°55.8' | VIII-12 | 1755 | 1759 | 142 | 0-30 | 731 | 731 |
| 115.30 | 29°05.2' | 115°07.7' | VIII-12 | 1444 | 1452 | (262) | 0-65 | 657 | 657 |
| 115.35 | 28°55' | 115°27.6' | VIII-12 | 1131 | 1147 | 493 | 0-130 | 276 | 266 |
| 117.26 | 28°56' | 114°41' | VIII-12 | 2020 | 2025 | 176 | 0-40 | 932 | 932 |
| 117.30 | 28°48.2' | 114°56.8' | VIII-12 | 2249 | 2253 | 146 | 0-35 | 652 | 652 |
| 117.35 | 28°38' | 115°16' | VIII-13 | 0254 | 0301 | 264 | 0-62 | 329 | 307 |
| 117.40 | 28°28' | 115°35' | VIII-14 | 0740 | 0754 | 458 | 0-126 | 378 | 334 |
| 118.33 | 28°27' | 115°05' | VIII-17 | 0804 | 0811 | 237 | 0-78 | 135 | 135 |
| 118.35 | 28°24.6' | 115°08.1' | VIII-14 | 0434 | 0442 | 228 | 0-68 | 412 | 412 |
| 118 ⁵ 25 | 28°41' | 114°26.7' | VIII-13 | 1410 | 1414 | 146 | 0-32 | 404 | 404 |
| 118 ⁵ 30 | 28°29' | 114°42' | VIII-13 | 1125 | 1133 | 250 | 0-65 | 312 | 312 |
| 118 ⁵ 35 | 28°20.5' | 115°04' | VIII-13 | 0809 | 0817 | 225 | 0-68 | 227 | 222 |
| 119.33 | 28°17' | 114°53.9' | VIII-17 | 0605 | 0613 | 258 | 0-56 | 175 | 175 |
| 119.42 | 28°00' | 115°29.2' | VIII-14 | 1133 | 1141 | 272 | 0-53 | 103 | 103 |
| 120.25 | 28°23' | 114°14.9' | VIII-13 | 1816 | 1820 | 133 | 0-34 | 451 | 451 |
| 120.30 | 28°13' | 114°33' | VIII-13 | 2039 | 2046 | 264 | 0-58 | 242 | 242 |
| 120.35 | 28°02.3' | 114°54.2' | VIII-14 | 0127 | 0132 | 159 | 0-29 | 265 | 265 |
| 120.35 | 28°02.8' | 114°54.7' | VIII-17 | 0206 | 0210 | 136 | 0-32 | 125 | 125 |
| 120.43 | 27°49.4' | 115°27' | VIII-14 | 1336 | 1343 | 255 | 0-65 | 70 | 70 |
| 121.30 | 28°10' | 114°28' | VIII-13 | 2222 | 2226 | 122 | 0-37 | 378 | 378 |
| 121.30 | 28°01' | 114°27' | VIII-16 | 2256 | 2300 | 129 | 0-25 | 70 | 70 |
| 121.34 | 27°54.7' | 114°44.7' | VIII-17 | 0035 | 0039 | 160 | 0-32 | 25 | 25 |
| 121.41 | 27°40.5' | 115°10.5' | VIII-14 | 1600 | 1604 | 156 | 0-29 | 135 | 135 |
| 121 ³ 26 | 28°09.6' | 114°11.3' | VIII-16 | 2110 | 2111 | 39 | 0-8 | 25 | 25 |
| 121 ⁵ 28 | 28°02.6' | 114°16.1' | VIII-16 | 1022 | 1023 | 79 | 0-12 | 38 | 38 |

(3) Most of these stations are located within Sebastian Viscaïno Bay.

Stations Occupied During Special Cruises, 1952 (cont'd)

| Sta. | Position | | (1952) 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. |
| Cruise 41: ⁽⁴⁾ | | | | | | | | | |
| 113.30 | 29°22.5' | 115°17.5' | IX-21 | 1659 | 1703 | 166 | 0-29 | 60 | 60 |
| 113.35 | 29°12' | 115°39' | IX-21 | 2050 | 2106 | 526 | 0-140 | 437 | 342 |
| 115.27 | 29°11' | 114°55' | IX-22 | 0302 | 0307 | 179 | 0-28 | 716 | 716 |
| 115.30 | 29°05' | 115°08' | IX-22 | 0518 | 0525 | 298 | 0-63 | 128 | 128 |
| 115.35 | 28°55' | 115°27.5' | IX-22 | 0824 | 0839 | 514 | 0-138 | 360 | 360 |
| 117.26 | 28°56' | 114°41' | IX-22 | 2354 | 0001 | 247 | 0-55 | 219 | 219 |
| 117.30 | 28°48' | 114°56.5' | IX-22 | 2051 | 2059 | 208 | 0-71 | 192 | 192 |
| 117.35 | 28°38' | 115°16' | IX-22 | 1708 | 1723 | 505 | 0-133 | 154 | 154 |
| 117.40 | 28°28' | 115°35.5' | IX-22 | 1316 | 1331 | 489 | 0-138 | 96 | 86 |
| 118.33 | 28°27' | 115°00.5' | IX-23 | 1510 | 1518 | 185 | 0-78 | 162 | 162 |
| 118.35 | 28°24.6' | 115°08.1' | IX-23 | 1320 | 1328 | 246 | 0-72 | 147 | 147 |
| 118 ⁵ 25 | 28°41' | 114°26.7' | IX-23 | 0319 | 0326 | 192 | 0-58 | 302 | 302 |
| 118 ⁵ 30 | 28°29' | 114°42' | IX-23 | 0658 | 0706 | 241 | 0-68 | 17 | 17 |
| 118 ⁵ 35 | 28°20.5' | 115°04' | IX-23 | 1208 | 1216 | 244 | 0-73 | 37 | 37 |
| 119.33 | 28°17' | 114°53.9' | IX-23 | 1720 | 1728 | 248 | 0-70 | 16 | 16 |
| 119.42 | 28°00' | 115°29.2' | IX-26 | 0138 | 0146 | 246 | 0-72 | 89 | 89 |
| 120.25 | 28°23' | 114°14.5' | IX-24 | 0426 | 0430 | 109 | 0-34 | 64 | 64 |
| 120.30 | 28°13' | 114°34' | IX-24 | 0020 | 0028 | 212 | 0-69 | 113 | 113 |
| 120.35 | 28°03' | 114°54' | IX-23 | 2002 | 2009 | 207 | 0-54 | 77 | 77 |
| 120.43 | 27°49.4' | 115°27' | IX-26 | 0237 | 0252 | 453 | 0-143 | 27 | 27 |
| 121.30 | 28°01' | 114°27' | IX-24 | 1139 | 1143 | 118 | 0-36 | 9 | 9 |
| 121.34 | 27°54.7' | 114°44.7' | IX-24 | 1424 | 1429 | 141 | 0-42 | 21 | 21 |
| 121.41 | 27°40.5' | 115°10.5' | IX-26 | 0521 | 0536 | 439 | 0-145 | 50 | 50 |
| 121 ³ 26 | 28°09.6' | 114°11.3' | IX-24 | 0646 | 0650 | 120 | 0-13 | 17 | 17 |
| 121 ⁵ 28 | 28°02.6' | 114°16.1' | IX-24 | 0809 | 0812 | 80 | 0-10 | 25 | 25 |
| 123.37 | 27°24' | 114°39.7' | IX-26 | 1423 | 1430 | 247 | 0-67 | 121 | 121 |
| 127.34 | 26°55.3' | 114°06' | IX-26 | 1936 | 1944 | 275 | 0-70 | 109 | 109 |
| 130.26 | 26°37' | 113°13.5' | IX-27 | 0249 | 0253 | 149 | 0-35 | 262 | 262 |
| 133.21 | 26°12.8' | 112°32.7' | IX-27 | 0906 | 0910 | 169 | 0-33 | 368 | 368 |
| 137.23 | 25°34.2' | 112°18.7' | IX-27 | 1818 | 1825 | 224 | 0-55 | 76 | 76 |
| 140.30 | 24°45.5' | 112°24' | IX-28 | 0104 | 0114 | 364 | 0-91 | 107 | 107 |
| 143.26 | 24°19' | 111°48' | IX-29 | 0141 | 0148 | 240 | 0-63 | 624 | 624 |
| 147.20 | 23°56' | 111°03.5' | IX-29 | 0916 | 0931 | 577 | 0-137 | 114 | 114 |
| 150.19 | 23°23.7' | 110°39' | IX-29 | 1502 | 1515 | 441 | 0-114 | 104 | 104 |
| 153.16 | 22°55' | 110°07' | IX-29 | 2138 | 2153 | 497 | 0-138 | 201 | 201 |

4) Stations 113.30 to 121⁵28 located within Sebastian Viscaïno Bay.

Samples from the Gulf of California without Station Number,
Listed in the Order Taken

| Sta. | Position | | Time (PST) (1952) 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. |
| 1 | 22°49.5' | 109°55' | IX-30 | 0108 | 0116 | 261 | 0-68 | 272 | 238 |
| 2 | 22°53' | 109°45' | IX-30 | 0308 | 0316 | 278 | 0-66 | 339 | 303 |
| 3 | 23°00' | 109°35' | IX-30 | 0503 | 0510 | 259 | 0-70 | 201 | 201 |
| 4 | 23°06.1' | 109°24.5' | IX-30 | 0707 | 0715 | 281 | 0-62 | 231 | 231 |
| 5 | 23°19.5' | 109°22' | IX-30 | 0936 | 0944 | 299 | 0-69 | 180 | 180 |
| 6 | 23°35.5' | 109°26' | IX-30 | 1205 | 1213 | 298 | 0-66 | 161 | 161 |
| 7 | 23°48' | 109°34.5' | IX-30 | 1408 | 1416 | 322 | 0-66 | 187 | 187 |
| 8 | 23°57' | 109°42' | IX-30 | 1608 | 1616 | 378 | 0-53 | 265 | 265 |
| 9 | 24°11' | 109°56' | IX-30 | 1803 | 1811 | 294 | 0-68 | 232 | 232 |
| 10 | 24°21' | 110°07' | IX-30 | 2003 | 2010 | 300 | 0-68 | 306 | 306 |
| 11 | 24°30.5' | 110°15.5' | IX-30 | 2205 | 2213 | 288 | 0-68 | 333 | 333 |
| 12 | 24°36' | 110°26' | X-1 | 0011 | 0019 | 276 | 0-69 | 232 | 232 |
| 13 | 24°21' | 110°29.5' | X-2 | 2043 | 2051 | 322 | 0-69 | 373 | 373 |
| 14 | 24°38' | 110°38' | X-2 | 2340 | 2348 | 305 | 0-70 | 262 | 262 |
| 15 | 24°47' | 110°38' | X-3 | 0115 | 0123 | 314 | 0-69 | 223 | 223 |
| 16 | 25°04' | 110°46.5' | X-3 | 0358 | 0405 | 348 | 0-66 | 213 | 213 |
| 17 | 25°17' | 110°55' | X-3 | 0643 | 0650 | 320 | 0-67 | 225 | 225 |
| 18 | 25°30.5' | 110°59' | X-3 | 0828 | 0835 | 258 | 0-70 | 271 | 271 |
| 19 | 25°43' | 111°10' | X-3 | 1043 | 1051 | 309 | 0-69 | 356 | 356 |
| 20 | 25°55.5' | 111°08' | X-3 | 1243 | 1251 | 306 | 0-68 | 786 | 458 |
| 21 | 25°58' | 111°07' | X-3 | 1924 | 1929 | 225 | 0-47 | 240 | 240 |
| 22 | 26°13' | 111°08' | X-3 | 2301 | 2308 | 293 | 0-70 | 212 | 212 |
| 23 | 26°25' | 111°19' | X-4 | 0158 | 0206 | 311 | 0-67 | 219 | 219 |
| 24 | 26°38.5' | 111°30' | X-4 | 0458 | 0506 | 310 | 0-70 | 316 | 316 |
| 25 | 26°51' | 111°42' | X-4 | 0733 | 0741 | 290 | 0-68 | 276 | 276 |
| 26 | | | Occupied. Sample not quantitative | | | | | | |
| 27 | 26°54.5' | 111°33.5' | X-4 | 2208 | 2216 | 286 | 0-67 | 329 | 329 |
| 28 | 26°39' | 111°15' | X-5 | 0204 | 0212 | 320 | 0-70 | 219 | 219 |
| 29 | 26°21' | 110°59' | X-5 | 0603 | 0610 | 298 | 0-72 | 275 | 275 |
| 30 | 26°03' | 110°42.5' | X-5 | 1003 | 1011 | 313 | 0-69 | 173 | 173 |
| 31 | 25°39' | 110°32.5' | X-5 | 1405 | 1413 | 306 | 0-68 | 268 | 268 |
| 32 | 25°17' | 110°24' | X-5 | 1804 | 1812 | 317 | 0-70 | 253 | 253 |
| 33 | 24°55' | 110°10.5' | X-5 | 2203 | 2211 | 320 | 0-69 | 125 | 125 |
| 34 | 24°35.5' | 109°55' | X-6 | 0208 | 0215 | 311 | 0-68 | 318 | 302 |
| 35 | 24°15.5' | 109°37.5' | X-6 | 0603 | 0611 | 291 | 0-69 | 103 | 103 |
| 36 | 23°53.2' | 109°26' | X-6 | 1002 | 1010 | 307 | 0-70 | 163 | 163 |
| 37 | 23°27' | 109°19.5' | X-6 | 1408 | 1415 | 326 | 0-71 | 166 | 166 |

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