Supplementary Material

**Supplementary Table Legends**

**Supplementary Table 1.** A list of the stations analyzed during 2018 to 2020 in the western Ross Sea region Marine Protected Area (RSR MPA).

**Supplementary Table 2.** Species list of the mesozooplankton community collected during three surveys in the RSR MPA including taxa and mean abundance (ind./m3).

**Supplementary Table 3.** Species list and abundance (individuals/m3) of the mesozooplankton communities at each survey station included in 2018 in the western Ross Sea region Marine Protected Area (RSR MPA).

**Supplementary Table** **4.** Species list and abundance (individuals/m3) of the mesozooplankton communities at each survey station included in 2019 in the western Ross Sea region Marine Protected Area (RSR MPA).

**Supplementary Table** **5.** Species list and abundance (individuals/m3) of the mesozooplankton communities at each survey station included in 2020 in the western Ross Sea region Marine Protected Area (RSR MPA).

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supplementary Table 1.** | | | | | | |  |
| Cruise name | Number of stations | Date | Time | Latitude (°S) | Longitude (°E) | Sampling depth (m) | Max depth (m) |
| ANA08C  (2018) | 1 | 26/02/2018 | 09:15 - 09:28 | 71.6982 | 172.1864 | 200 | 1004 |
| 2 | 26/02/2018 | 15:24 - 15:35 | 71.9401 | 173.9231 | 200 | 1751 |
| 3 | 27/02/2018 | 13:16 - 13:27 | 72.0398 | 171.659 | 200 | 359 |
| 4 | 26/02/2018 | 22:07 - 22:19 | 72.1635 | 175.5661 | 200 | 1331 |
| 5 | 27/02/2018 | 07:15 - 07:27 | 72.2915 | 173.336 | 200 | 491 |
| 6 | 27/02/2018 | 02:03 - 02:13 | 72.5345 | 175.0227 | 200 | 411 |
| 7 | 28/02/2018 | 11:15 - 11:28 | 72.5958 | 171.4129 | 200 | 391 |
| 8 | 28/02/2018 | 06:07 - 06:19 | 72.7577 | 172.6611 | 200 | 537 |
| 9 | 28/02/2018 | 00:12 - 00:23 | 72.987 | 174.315 | 200 | 337 |
| 10 | 01/03/2018 | 08:29 - 08:41 | 73.0632 | 171.0729 | 200 | 581 |
| 11 | 01/03/2018 | 04:44 - 04:55 | 73.1927 | 171.9817 | 200 | 472 |
| 12 | 28/02/2018 | 23:50 - 00:01 | 73.4209 | 173.0663 | 200 | 278 |
| ANA09B  (2019) | 1 | 21/01/2019 | 10:02 - 10:11 | 71.7523 | 172.1312 | 192 | 701 |
| 2 | 21/01/2019 | 03:32 - 03:43 | 71.9843 | 173.8058 | 184 | 1588 |
| 3 | 20/01/2019 | 03:33 - 03:44 | 72.0951 | 171.7357 | 170 | 376 |
| 4 | 20/01/2019 | 19:53 - 20:04 | 72.2352 | 175.4362 | 199 | 1186 |
| 5 | 20/01/2019 | 08:56 - 09:08 | 72.2904 | 173.2864 | 178 | 492 |
| 6 | 20/01/2019 | 15:36 - 15:47 | 72.5347 | 175.0239 | 168 | 424 |
| 7 | 19/01/2019 | 23:02 - 23:13 | 72.6438 | 171.4727 | 195 | 403 |
| 8 | 19/01/2019 | 13:29 - 13:39 | 72.8144 | 172.775 | 189 | 526 |
| 9 | 19/01/2019 | 07:58 - 08:12 | 73.0064 | 174.0854 | 222 | 341 |
| 10 | 18/01/2019 | 18:19 - 18:31 | 73.0586 | 171.0301 | 193 | 577 |
| 11 | 18/01/2019 | 23:51 - 00:02 | 73.25 | 172.3357 | 200 | 494 |
| 12 | 19/01/2019 | 03:54 - 04:07 | 73.4334 | 173.6672 | 232 | 273 |
| 13 | 16/01/2019 | 13:02 - 13:17 | 73.922 | 170.619 | 201 | 631 |
| 14 | 16/01/2019 | 20:58 - 21:10 | 74.1834 | 172.7259 | 199 | 355 |
| 15 | 17/01/2019 | 06:25 - 06:42 | 74.5796 | 176.1046 | 198 | 317 |
| ANA10C  (2020) | 1 | 31/03/2020 | 17:28 - 17:39 | -67.3192 | 170.7775 | 200 | 301 |
| 2 | 29/03/2020 | 20:58 - 21:09 | -67.8935 | 173.8878 | 202 | 302 |
| 3 | 27/03/2020 | 17:21 - 17:32 | -68.5024 | 177.8931 | 200 | 502 |
| 4 | 30/03/2020 | 21:35 - 21:46 | -68.7105 | 169.1785 | 201 | 501 |
| 5 | 28/03/2020 | 22:40 - 22:52 | -70.2040 | 171.5266 | 202 | 501 |
| 6 | 26/03/2020 | 22:15 - 22:26 | -70.5175 | 176.3095 | 201 | 501 |
| 7 | 26/03/2020 | 10:13 - 10:23 | -71.6613 | 171.5939 | 195 | 346 |
| 8 | 25/03/2020 | 19:09 - 19:20 | -73.3070 | 172.6329 | 200 | 503 |
| 9 | 23/03/2020 | 20:44 - 20:55 | -73.9925 | 171.6891 | 200 | 446 |
| 10 | 23/03/2020 | 07:22 - 07:33 | -74.2557 | 170.5975 | 200 | 597 |
| 11 | 14/03/2020 | 06:04 - 06:15 | -74.9394 | 165.3841 | 197 | 852 |
| 12 | 15/03/2020 | 07:44 - 07:55 | -75.0968 | 165.1937 | 199 | 1107 |
| 13 | 18/03/2020 | 05:38 - 05:47 | -75.1917 | 164.0859 | 200 | 1007 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Supplementary Table 2.** | | | | | |
| Taxon | Species | 2018 | 2019 | 2020 | Total |
| Cnidaria | Unidentified cnidarians 1 | 0.03 ± 0.08 | 0.04 ± 0.15 | 0.35 ± 0.77 | 0.14 ± 0.46 |
|  | Unidentified cnidarians 2 | 0.16 ± 0.16 | 0.09 ± 0.12 | 0.04 ± 0.05 | 0.10 ±0.12 |
|  | Unidentified cnidarians 3 | 0.01 0.02 | 0.09 ±0.29 | 0.01 ± 0.01 | 0.04 ± 0.18 |
| Chaetognatha | *Sagitta* spp. | 0.95 ± 0.95 | 0.25 ±0.29 | 1.65 ± 2.23 | 0.91 ± 1.47 |
| Mollusca (Pteropoda) | *Clione limacina* | 0.06 ± 0.13 | 0.03 ± 0.04 | 0.03 ± 0.05 | 0.04 ± 0.08 |
|  | *Limacina helicina antarctica* | 1.43 ± 3.03 | 0.08 ± 0.01 | 202.64 ± 407.91 | 66.31 ± 245.72 |
| Annelida | Polychaeta larvae | 1.24 ± 1.14 | 0.09 ± 0.09 | 0.09 ± 0.09 | 0.44 ± 0.81 |
| Arthropoda (Cirripedia) | Cirriped nauplius | 0.15 ± 0.24 | 1.27 ± 2.87 | - | 0.52 ± 1.82 |
| Arthropoda (Copepoda) | *Arartia* sp. | - | 0.05 ± 0.18 | - | 0.02 ± 0.11 |
|  | *Calanoides acutus* | 4.08 ±2.80 | 0.98 ±1.04 | 18.57 ± 32.30 | 7.63 ± 19.61 |
|  | *Calanus propinquus* | 0.09 ± 0.12 | 0.13 ± 0.22 | 0.08 ± 0.12 | 0.10 ± 0.16 |
|  | *Chiridius gracilis* | 0.002 ± 0.01 | 0.10 ±0.36 | 0.03 ± 0.11 | 0.05 ± 0.23 |
|  | *Ctenocalanus* sp. | 11.70 ± 11.42 | 1.75 ±2.86 | 34.88 ± 61.83 | 15.50 ± 37.66 |
|  | *Euchirella* sp. | 0.01 ± 0.02 | 0.002 ± 0.01 | - | 0.003 ± 0.01 |
|  | *Haloptilus oxycephalus* | 0.04 ± 0.09 | 0.02 ± 0.03 | 0.03 ± 0.04 | 0.03 ± 0.06 |
|  | Harpacticoida indet. | - | 0.01 ± 0.03 | - | 0.002 ± 0.02 |
|  | *Metridia gerlachei* | 7.97 ± 3.88 | 2.71 ± 2.10 | 5.79 ± 4.20 | 5.29 ± 4.01 |
|  | *Microcalanus* sp. | 0.30 ± 0.24 | 0.01 ± 0.05 | 0.15 ± 0.17 | 0.15 ± 0.20 |
|  | *Oithona* spp. | 22.94 ± 17.49 | 12.33 ±13.28 | 20.37 ± 25.55 | 18.13 ± 19.29 |
|  | *Oncaea* spp. | 1.00 ± 1.02 | 0.22 ± 0.58 | 0.15 ± 0.16 | 0.43 ± 0.75 |
|  | *Paraeuchaeta antarctica* | 2.24 ± 1.60 | 0.93 ± 0.70 | 0.44 ± 0.38 | 1.16 ± 1.22 |
|  | *Racovitzanus antarcticus* | 0.14 ± 0.10 | 0.01 ± 0.02 | 0.07 ± 0.08 | 0.07 ±0.09 |
|  | *Rhincalanus gigas* | 0.04 ± 0.05 | 0.04 ± 0.09 | 0.16 ± 0.19 | 0.08 ± 0.13 |
|  | *Stephos longipes* | 0.08 ± 0.15 | 0.11 ± 0.34 | 0.07 ± 0.17 | 0.09 ± 0.24 |
| Arthropoda (Euphausiacea) | *Euphausia* spp. | 2.37 ± 2.80 | 0.06 ± 0.06 | 2.02 ± 4.00 | 1.39 ± 2.87 |
| Arthropoda (Amphipoda) | Unidentified Amphipoda 1 | 0.10 ± 0.09 | 0.06 ± 0.10 | 0.05 ± 0.06 | 0.07 ± 0.09 |
|  | Unidentified Amphipoda 2 | 0.01 ± 0.01 | 0.02 ± 0.02 | 0.01 ± 0.02 | 0.01 ± 0.02 |
| Arthropoda (Isopoda) | Unidentified Isopoda | 0.01 ± 0.02 | 0.002 ± 0.01 | 0.01 ± 0.01 | 0.01 ± 0.01 |
| Arthropoda (Ostracoda) | Unidentified Ostracoda | 1.70 ± 1.41 | 0.18 ± 0.18 | 0.40 ± 0.51 | 0.71 ± 0.01 |
| Chordata (Tunicata) | *Fritillaria* spp. | 0.002 ± 0.01 | - | - | 0.0009 ± 0.01 |
|  | *Oikopleura* sp. | 0.39 ± 0.29 | - | 0.10 ± 0.14 | 0.15 ± 0.24 |
|  | *Salpa thompsoni* | 0.22 ± 0.67 | 0.32 ± 0.96 | 0.05 ± 0.17 | 0.20 ±0.20 |
| Chordata (Vertebrata) | Fish larvae | - | - | 0.06 ±0.15 | 0.02 ± 0.08 |
| Total number of identifiable species | | 30 | 30 | 28 | 33 |
| Mean total abundance (ind./m3) | | 59.46 ± 4.23 | 21.98 ± 2.18 | 288.26 ± 35.60 | 119.77 ± 12.02 |
| Mean species richness (d) | | 4.79 ± 0.39 | 5.01 ± 1.55 | 3.83 ± 1.20 | 4.56 ± 1.3 |
| Mean diversity (H´) | | 1.83 ± 0.28 | 1.50 ± 0.30 | 1.33 ± 0.46 | 1.54 ± 0.49 |
| Mean species evenness (J´) | | 0.62 ± 0.09 | 0.55 ± 0.19 | 0.48 ± 0.17 | 0.55 ± 0.16 |

**Supplementary Table 3.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | ANA08C-01 | ANA08C-02 | ANA08C-03 | ANA08C-04 | ANA08C-05 | ANA08C-06 | ANA08C-07 | ANA08C-08 | ANA08C-09 | ANA08C-10 | ANA08C-11 | ANA08C-12 |
| Unidentified cindarians 1 | 0.28 |  |  |  |  |  |  |  | 0.04 |  |  |  |
| Unidentified cindarians 2 | 0.18 | 0.42 |  | 0.25 | 0.11 | 0.14 | 0.04 | 0.11 | 0.46 |  |  | 0.25 |
| Unidentified cindarians 3 |  |  | 0.07 |  | 0.04 |  |  |  |  | 0.04 |  |  |
| *Sagitta* spp. | 0.85 | 3.22 | 1.52 | 1.84 | 1.55 | 0.60 | 0.14 | 0.99 | 0.46 | 0.04 | 0.18 |  |
| *Oikopleura* sp. | 0.85 | 0.49 | 0.07 | 0.53 | 0.85 | 0.07 | 0.11 | 0.60 | 0.21 | 0.11 | 0.57 | 0.28 |
| *Fritillaria* spp. |  |  |  |  |  |  |  |  | 0.04 |  |  |  |
| *Salp thompsoni* | 2.33 | 0.18 |  |  |  |  |  |  |  |  |  | 0.11 |
| *Calanoides acutus* | 2.97 | 7.21 | 1.73 | 3.89 | 1.10 | 2.47 | 1.94 | 1.17 | 7.92 | 5.80 | 3.50 | 9.29 |
| *Calanus propinquus* | 0.21 | 0.18 | 0.04 |  | 0.39 |  |  | 0.11 |  | 0.04 |  | 0.11 |
| *Chiridius gracilis* |  |  | 0.04 |  |  |  |  |  |  |  |  |  |
| *Euchirella* sp. |  | 0.04 |  |  |  | 0.04 |  |  |  |  | 0.04 |  |
| *Haloptilus oxycephalus* | 0.04 | 0.32 |  | 0.07 |  |  |  | 0.04 |  |  |  | 0.07 |
| *Metridia gerlachei* | 4.59 | 10.14 | 7.74 | 7.24 | 9.08 | 9.40 | 8.02 | 2.90 | 5.72 | 7.67 | 4.84 | 18.23 |
| *Microcalanus* sp. |  | 0.42 | 0.04 | 0.21 | 0.71 | 0.14 |  | 0.18 | 0.60 | 0.42 | 0.39 | 0.53 |
| *Oithona* spp. | 7.99 | 7.77 | 28.83 | 4.38 | 22.05 | 14.20 | 1.24 | 25.44 | 40.71 | 37.31 | 24.31 | 61.06 |
| *Oncaea* spp. | 0.07 | 1.10 | 0.18 | 0.85 | 0.04 | 0.18 | 0.14 | 3.29 | 1.27 | 2.19 | 0.78 | 1.87 |
| *Paraeuchaeta antarctica* | 1.77 | 1.24 | 2.30 | 0.99 | 4.13 | 6.15 | 1.52 | 3.64 | 1.84 | 1.24 | 0.85 | 1.20 |
| *Ctenocalanus* sp. | 5.97 | 1.87 | 4.88 | 6.33 | 4.17 | 6.86 | 0.21 | 4.28 | 32.01 | 19.22 | 29.12 | 25.44 |
| *Racovitzanus antarcticus* | 0.21 | 0.21 | 0.14 | 0.28 |  | 0.25 |  | 0.18 | 0.14 | 0.04 | 0.04 | 0.18 |
| *Rhincalanus gigas* | 0.04 | 0.11 | 0.07 | 0.14 | 0.04 | 0.04 |  |  |  |  |  | 0.07 |
| *Stephos longipes* |  |  | 0.46 |  |  |  |  |  | 0.11 | 0.11 | 0.32 |  |
| *Euphausia* spp. | 5.41 | 0.35 | 1.45 | 0.78 | 8.73 | 2.08 | 0.18 | 6.01 | 2.05 | 0.46 | 0.42 | 0.49 |
| Polychaeta larvae | 0.11 | 0.35 | 2.19 | 0.07 | 0.35 | 2.23 | 0.46 | 0.74 | 3.89 | 1.34 | 1.31 | 1.87 |
| Cirriped nauplius |  |  |  |  |  | 0.57 | 0.07 |  | 0.60 |  | 0.11 | 0.46 |
| Unidentified Isopoda |  | 0.04 |  |  |  |  |  | 0.04 | 0.04 |  |  |  |
| Unidentified Amphipoda 1 | 0.25 | 0.18 | 0.14 | 0.11 | 0.07 |  | 0.07 |  | 0.11 | 0.25 | 0.04 |  |
| Unidentified Amphipoda 2 |  |  | 0.04 |  |  |  | 0.04 |  |  |  |  |  |
| *Limacina helicina antarctica* | 0.18 | 0.21 | 0.04 | 0.07 | 0.21 |  | 0.25 | 0.71 | 10.42 | 0.81 | 0.32 | 3.89 |
| *Clione limacina* |  |  | 0.28 |  |  |  |  |  | 0.39 | 0.04 |  | 0.07 |
| Unidentified Ostracoda | 2.83 | 3.96 | 3.11 | 3.39 | 0.07 | 1.77 | 0.81 | 0.32 | 2.12 | 0.11 | 0.11 | 1.87 |
| Number of species | 20 | 22 | 22 | 18 | 18 | 17 | 16 | 18 | 22 | 19 | 18 | 20 |
| Abundance (ind./m3) | 37.10 | 40.00 | 55.34 | 31.41 | 53.67 | 47.17 | 15.23 | 50.71 | 111.13 | 77.21 | 67.21 | 127.35 |

**Supplementary Table 4.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | ANA09B-01 | ANA09B-02 | ANA09B-03 | ANA09B-04 | ANA09B-05 | ANA09B-06 | ANA09B-07 | ANA09B-08 | ANA09B-09 | ANA09B-10 | ANA09B-11 | ANA09B-12 | ANA09B-13 | ANA09B-14 | ANA09B-15 |
| Unidentified cindarians 1 |  |  |  |  |  |  |  |  |  | 0.57 |  |  |  |  |  |
| Unidentified cindarians 2 | 0.07 |  | 0.04 | 0.11 | 0.04 | 0.21 |  |  | 0.37 | 0.04 | 0.25 | 0.27 | 0.04 |  |  |
| Unidentified cindarians 3 |  |  | 0.04 |  |  |  | 0.04 |  | 0.03 |  |  |  | 1.13 | 0.07 |  |
| *Sagitta* spp. | 0.71 | 0.04 | 0.07 | 0.99 | 0.18 | 0.46 |  |  | 0.08 | 0.18 | 0.28 | 0.43 |  | 0.04 | 0.25 |
| *Salp thompsoni* |  |  | 0.95 |  |  |  |  | 3.67 | 0.23 |  |  |  |  |  |  |
| *Arartia* sp. |  |  | 0.71 |  |  |  |  | 0.04 |  |  |  |  |  |  |  |
| *Calanoides acutus* | 2.72 | 2.69 | 2.97 | 1.45 | 1.38 | 0.64 | 0.18 | 0.28 | 0.08 | 0.46 | 0.25 | 0.30 | 0.04 | 0.21 | 1.06 |
| *Calanus propinquus* | 0.71 |  | 0.18 | 0.53 | 0.28 | 0.21 |  |  |  | 0.04 |  |  |  |  | 0.04 |
| *Chiridius gracilis* |  |  | 1.38 |  |  |  |  | 0.14 |  |  |  |  |  |  |  |
| *Euchirella* sp. |  |  |  | 0.04 |  |  |  |  |  |  |  |  |  |  |  |
| *Haloptilus oxycephalus* | 0.04 | 0.04 |  | 0.21 |  |  |  |  | 0.03 |  |  |  |  |  |  |
| Harpacticoida indet. |  |  | 0.11 |  |  |  |  |  |  |  |  |  |  |  |  |
| *Metridia gerlachei* | 7.07 | 4.31 | 2.79 | 4.03 | 4.91 | 5.72 | 0.42 | 0.60 | 1.61 | 0.42 | 1.38 | 2.96 | 0.35 | 2.37 | 1.77 |
| *Oithona* spp. | 2.90 | 1.87 | 12.44 | 1.48 | 3.50 | 3.11 | 38.45 | 1.20 | 14.96 | 24.88 | 24.31 | 4.88 | 2.33 | 39.01 | 9.61 |
| *Oncaea* spp. |  |  | 0.14 | 0.46 |  |  | 0.07 |  | 0.06 | 0.04 | 0.07 | 0.06 |  | 2.26 | 0.21 |
| *Paraeuchaeta antarctica* | 1.98 | 0.85 |  | 0.78 | 2.33 | 2.23 | 0.28 | 0.39 | 0.74 | 1.02 | 0.74 | 0.70 | 0.71 | 0.42 | 0.71 |
| *Ctenocalanus* sp. | 1.27 |  | 0.74 | 0.60 | 0.07 | 0.46 | 1.06 | 0.64 | 0.20 | 6.78 | 0.60 | 0.34 | 1.06 | 10.18 | 2.30 |
| *Racovitzanus antarcticus* |  |  |  | 0.04 |  | 0.07 |  |  |  |  |  |  |  |  |  |
| *Rhincalanus gigas* | 0.28 | 0.07 |  | 0.21 | 0.04 |  |  |  |  |  |  |  |  |  | 0.04 |
| *Microcalanus* sp. | 0.21 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Stephos longipes* |  |  | 1.34 | 0.07 |  |  |  |  | 0.08 |  | 0.07 | 0.06 | 0.07 |  |  |
| *Euphausia* spp. | 0.11 | 0.04 | 0.18 | 0.11 | 0.04 |  | 0.04 |  |  |  |  | 0.06 | 0.07 | 0.07 | 0.14 |
| Polychaeta larvae | 0.21 |  | 0.18 | 0.21 |  |  | 0.04 | 0.07 | 0.25 |  | 0.04 | 0.15 | 0.04 | 0.07 | 0.07 |
| Cirriped nauplius | 0.11 |  | 0.14 | 0.04 | 2.23 | 1.27 | 0.04 | 0.25 | 11.33 |  | 0.07 | 0.88 |  | 1.70 | 1.02 |
| Unidentified Isopoda |  |  |  |  |  |  |  |  | 0.03 |  |  |  |  |  |  |
| Unidentified Amphipoda 1 | 0.32 | 0.28 | 0.11 | 0.07 |  | 0.04 |  |  | 0.03 | 0.07 |  | 0.06 |  |  |  |
| Unidentified Amphipoda 2 |  |  | 0.04 |  |  |  |  | 0.04 | 0.03 |  |  |  | 0.04 | 0.07 | 0.04 |
| *Limacina helicina antarctica* | 0.35 | 0.07 | 0.07 |  |  | 0.04 | 0.07 | 0.21 | 0.14 | 0.07 | 0.07 | 0.03 | 0.07 |  |  |
| *Clione limacina* |  |  | 0.04 | 0.07 |  | 0.04 |  |  | 0.14 |  |  | 0.03 | 0.04 | 0.04 |  |
| Unidentified Ostracoda | 0.35 | 0.18 | 0.28 | 0.39 | 0.07 | 0.18 |  | 0.14 | 0.40 |  |  | 0.55 |  |  | 0.11 |
| Number of species | 17 | 11 | 22 | 20 | 12 | 14 | 11 | 13 | 20 | 12 | 12 | 16 | 13 | 13 | 14 |
| Abundance (ind./m3) | 19.40 | 10.42 | 24.91 | 11.87 | 15.05 | 14.66 | 40.67 | 7.67 | 30.82 | 34.56 | 28.13 | 11.77 | 5.97 | 56.50 | 17.35 |

**Supplementary Table 5.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | ANA10C-01 | ANA10C-02 | ANA10C-03 | ANA10C-04 | ANA10C-05 | ANA10C-06 | ANA10C-07 | ANA10C-08 | ANA10C-09 | ANA10C-10 | ANA10C-11 | ANA10C-12 | ANA10C-13 |
| Unidentified cindarians 1 |  |  |  |  |  |  | 0.28 |  | 0.18 | 0.07 | 0.11 | 1.42 | 2.55 |
| Unidentified cindarians 2 |  | 0.04 | 0.07 | 0.07 |  | 0.14 | 0.07 |  | 0.07 |  |  |  |  |
| Unidentified cindarians 3 |  |  |  |  | 0.04 |  |  |  |  |  |  |  | 0.04 |
| *Sagitta* spp. | 1.63 | 2.02 | 5.60 | 2.73 | 1.28 | 6.88 | 0.32 | 0.11 | 0.74 | 0.11 |  |  |  |
| *Oikopleura* sp. |  |  |  |  |  | 0.25 | 0.39 | 0.07 | 0.35 | 0.07 | 0.04 | 0.07 |  |
| Fish larvae |  |  |  |  | 0.04 |  | 0.53 | 0.07 |  |  | 0.07 | 0.04 |  |
| *Salp thompsoni* |  |  |  |  |  |  | 0.60 |  |  |  |  | 0.04 |  |
| *Calanoides acutus* | 1.35 | 0.74 | 1.13 | 1.77 | 1.60 | 1.24 | 2.34 | 2.38 | 3.33 | 9.65 | 52.20 | 62.41 | 101.28 |
| *Calanus propinquus* | 0.07 |  |  |  | 0.35 | 0.14 |  |  |  | 0.28 |  | 0.18 |  |
| *Chiridius gracilis* | 0.39 |  |  |  |  |  |  |  |  |  |  |  |  |
| *Haloptilus oxycephalus* | 0.04 |  | 0.11 |  | 0.04 | 0.07 | 0.11 |  |  |  |  |  |  |
| *Metridia gerlachei* | 11.91 | 0.53 | 3.76 | 6.45 | 3.44 | 2.23 | 7.87 | 0.39 | 4.89 | 10.21 | 1.70 | 11.35 | 10.57 |
| *Oithona* spp. | 5.57 | 2.30 | 27.23 | 8.51 | 14.18 | 48.79 | 4.26 | 15.32 | 94.18 | 2.27 | 11.35 | 20.99 | 9.86 |
| *Oncaea* spp. | 0.32 | 0.00 | 0.35 | 0.14 | 0.28 | 0.46 | 0.14 |  | 0.14 |  | 0.07 |  |  |
| *Paraeuchaeta antarctica* | 0.28 | 0.07 | 0.14 | 0.64 | 0.43 | 0.07 | 1.13 | 0.53 | 1.17 | 0.71 | 0.21 | 0.35 |  |
| *Ctenocalanus* sp. | 2.20 | 0.53 | 7.38 | 3.19 | 31.21 | 45.96 | 6.17 | 6.70 | 31.77 | 9.08 | 31.21 | 233.19 | 44.82 |
| *Racovitzanus antarcticus* | 0.04 |  | 0.11 | 0.11 | 0.18 | 0.25 | 0.14 |  | 0.04 |  |  |  |  |
| *Rhincalanus gigas* | 0.67 | 0.32 | 0.18 | 0.21 |  | 0.07 |  |  | 0.04 | 0.25 | 0.21 | 0.07 |  |
| *Microcalanus* sp. | 0.39 | 0.14 | 0.39 | 0.28 | 0.43 | 0.21 |  |  |  |  |  |  | 0.14 |
| Stephos longipes |  |  |  |  |  |  | 0.11 |  |  |  | 0.14 | 0.60 |  |
| *Euphausia* spp. | 0.28 |  | 0.11 | 0.04 |  |  | 0.14 | 0.14 | 0.04 | 0.39 | 4.65 | 7.62 | 12.84 |
| Polychaeta larvae |  | 0.04 |  | 0.04 | 0.04 | 0.04 | 0.18 | 0.04 | 0.25 | 0.11 | 0.11 | 0.14 | 0.25 |
| Unidentified Isopoda |  | 0.04 |  |  | 0.04 |  |  |  |  |  |  |  |  |
| Unidentified Amphipoda 1 | 0.14 | 0.04 |  | 0.18 | 0.04 |  |  | 0.04 | 0.04 |  | 0.04 | 0.11 | 0.04 |
| Unidentified Amphipoda 2 |  |  |  |  |  |  |  |  |  |  | 0.04 | 0.07 | 0.00 |
| *Limacina helicina antarctica* |  |  | 0.11 |  |  | 0.57 | 20.99 | 12.23 | 0.21 | 9.54 | 1167.66 | 434.04 | 988.94 |
| *Clione limacina* |  |  |  |  |  |  |  | 0.07 |  |  | 0.11 | 0.14 | 0.04 |
| Unidentified Ostracoda | 0.96 | 0.07 | 0.74 | 0.14 | 1.31 | 1.24 | 0.60 |  | 0.04 | 0.07 |  |  |  |
| Number of species | 16 | 15 | 15 | 15 | 17 | 19 | 19 | 13 | 17 | 14 | 17 | 18 | 13 |
| Abundance (ind./m3) | 26.24 | 6.88 | 47.41 | 24.50 | 54.89 | 108.62 | 46.38 | 38.09 | 137.48 | 42.80 | 1269.89 | 772.84 | 1171.35 |