**Cruise Summary For FOCI Cruise 1TT11 (TN263)**

 **Date** **Time** **FOCI** **Alternate** **Depth**

 **(GMT)** **(GMT)** **Station** **Haul** **Grid** **Station** **(m)** **Latitude** **Longitude** **Gear** **SamplesCollected** **HaulComments**

 03-May-11 19:13 1 1 CST1 NEU001 125 56 12.49 N 134 19.18 W NEU QTowF

 03-May-11 20:43 1 3 CST1 BON001 128 56 10.56 N 134 18.84 W 20BON QTowF tow time is estimated, watch started late.

 60BON net 1 came up with 20BON codend in

 mouth of net- flow meter low. Flow meters

 spinning in wind. GM time is estimated- need

 to check seacat time.

 03-May-11 20:43 1 3 CST1 BON001 128 56 10.56 N 134 18.84 W 60BON QTowF, RCountL tow time is estimated, watch started late.

 60BON net 1 came up with 20BON codend in

 mouth of net- flow meter low. Flow meters

 spinning in wind. GM time is estimated- need

 to check seacat time.

 03-May-11 20:43 1 3 CST1 BON001 128 56 10.56 N 134 18.84 W CAT CAT tow time is estimated, watch started late.

 60BON net 1 came up with 20BON codend in

 mouth of net- flow meter low. Flow meters

 spinning in wind. GM time is estimated- need

 to check seacat time.

 03-May-11 21:30 2 1 CST2 NEU002 346 56 19.00 N 134 24.88 W NEU QTowF

 03-May-11 22:43 2 3 CST2 BON002 434 56 10.93 N 134 22.96 W 20BON QTowF Was supposed to go only to 200 m; but forgot

 and went deeper. Flowmeters spinning in the

 wind.

 03-May-11 22:43 2 3 CST2 BON002 434 56 10.93 N 134 22.96 W 60BON AMGEN, QTowF, RCountL Was supposed to go only to 200 m; but forgot

 and went deeper. Flowmeters spinning in the

 wind.

 03-May-11 22:43 2 3 CST2 BON002 434 56 10.93 N 134 22.96 W CAT CAT Was supposed to go only to 200 m; but forgot

 and went deeper. Flowmeters spinning in the

 wind.

 03-May-11 23:56 3 1 CST3 NEU003 610 56 11.14 N 134 28.36 W NEU QTowF

 04-May-11 1:27 3 3 CST3 BON003 613 56 10.74 N 134 27.20 W 20BON QTowF

 04-May-11 1:27 3 3 CST3 BON003 613 56 10.74 N 134 27.20 W 60BON QTowF, RCountL

 04-May-11 1:27 3 3 CST3 BON003 613 56 10.74 N 134 27.20 W CAT CAT

 04-May-11 2:47 4 1 CST4 BON004 562 56 11.21 N 134 33.53 W 20BON QTowF Flowmeters spinning in wind. All salps rinsed

 and removed from 60BON net1. 60BON net2

 salps rinsed and plankton preserved and salps

 subsampled 500ml out of 1000ml (1/2) from

 net 2.

 04-May-11 2:47 4 1 CST4 BON004 562 56 11.21 N 134 33.53 W 60BON AMGEN, QTowF, QTowS, RCountL Flowmeters spinning in wind. All salps rinsed

 and removed from 60BON net1. 60BON net2

 salps rinsed and plankton preserved and salps

 subsampled 500ml out of 1000ml (1/2) from

 net 2.

 04-May-11 2:47 4 1 CST4 BON004 562 56 11.21 N 134 33.53 W CAT CAT Flowmeters spinning in wind. All salps rinsed

 and removed from 60BON net1. 60BON net2

 salps rinsed and plankton preserved and salps

 subsampled 500ml out of 1000ml (1/2) from

 net 2.

 04-May-11 4:03 4 3 CST4 NEU004 580 56 11.39 N 134 31.52 W NEU QTowF

***Wednesday, May 18, 2011*** ***Page 1 of 18***

**Cruise Summary For FOCI Cruise 1TT11 (TN263)**

 **Date** **Time** **FOCI** **Alternate** **Depth**

 **(GMT)** **(GMT)** **Station** **Haul** **Grid** **Station** **(m)** **Latitude** **Longitude** **Gear** **SamplesCollected** **HaulComments**

 04-May-11 5:04 5 1 CST5 NEU005 356 56 11.54 N 134 37.22 W NEU QTowF

 04-May-11 6:19 5 3 CST5 BON005 558 56 11.22 N 134 35.77 W 20BON QTowF Preserved 20BON net2 because net1 had lost

 of fucus in it.

 04-May-11 6:19 5 3 CST5 BON005 558 56 11.22 N 134 35.77 W 60BON AMGEN, QTowF, RCountL Preserved 20BON net2 because net1 had lost

 of fucus in it.

 04-May-11 6:19 5 3 CST5 BON005 558 56 11.22 N 134 35.77 W 60BON AMGEN, QTowF, RCountL Preserved 20BON net2 because net1 had lots

 of fucus in it. SEACAT DATA BAD

 04-May-11 6:19 5 3 CST5 BON005 558 56 11.22 N 134 35.77 W CAT CAT Preserved 20BON net2 because net1 had lost

 of fucus in it.

 04-May-11 12:32 6 1 SEA0 NEU006 136 56 28.99 N 135 11.91 W NEU QTowF

 04-May-11 13:29 6 3 SEA0 BON006 131 56 28.64 N 135 10.99 W 20BON QTowF FLOW METERS SPINNING IN 30 KT WIND

 04-May-11 13:29 6 3 SEA0 BON006 131 56 28.64 N 135 10.99 W 60BON QTowF, RCountL FLOW METERS SPINNING IN 30 KT WIND

 04-May-11 13:29 6 3 SEA0 BON006 131 56 28.64 N 135 10.99 W CAT CAT FLOW METERS SPINNING IN 30 KT WIND

 04-May-11 14:48 7 1 SEA 5 NEU007 132 56 26.55 N 135 20.01 W NEU QTowF NEUSTON FLIPPED UPSIDE DOWN AND

 THE RIGHTED ITSELF

 05-May-11 0:48 8 1 SEA0 NEU008 140 56 28.86 N 135 11.63 W NEU QTowF Bridge arrived at incorrect station and did not

 notify scientists until after sample was

 collected. Station SEA0 had already been

 sampled.

 05-May-11 1:43 8 2 SEA 0 BON007 134 56 27.76 N 135 10.31 W 60BON Discard ALREADY DID THIS STATION; BRIDGE

 WENT TO WRONG WAY POINT. WIRE

 ANGLES BAD. DID NOT KEEP SAMPLE.

 DUMMIED FLOW METER DATA.

 05-May-11 3:38 9 1 SEB 0 NEU009 95 56 37.50 N 135 20.90 W NEU QTowF

 05-May-11 4:06 9 2 SEB 0 BON008 111 56 37.13 N 135 19.93 W 20BON QTowF

 05-May-11 4:06 9 2 SEB 0 BON008 111 56 37.13 N 135 19.93 W 60BON QTowF, RCountL

 05-May-11 4:06 9 2 SEB 0 BON008 111 56 37.13 N 135 19.93 W CAT CAT

 05-May-11 5:51 10 1 SEC 2.5 NEU010 123 56 45.21 N 135 33.41 W NEU QTowF

 05-May-11 6:17 10 2 SEC 2.5 BON009 112 56 44.45 N 153 33.03 W 20BON QTowF

 05-May-11 6:17 10 2 SEC 2.5 BON009 112 56 44.45 N 153 33.03 W 60BON AMGEN, QTowF, RCountL

 05-May-11 6:17 10 2 SEC 2.5 BON009 112 56 44.45 N 153 33.03 W CAT CAT

 05-May-11 7:06 11 1 SEC 5 NEU011 149 56 44.06 N 135 37.58 W NEU QTowF

 05-May-11 7:38 11 2 SEC 05 BON010 149 56 43.25 N 135 37.18 W 20BON QTowF

 05-May-11 7:38 11 2 SEC 05 BON010 149 56 43.25 N 135 37.18 W 60BON QTowF, QTowS, RCountL

 05-May-11 7:38 11 2 SEC 05 BON010 149 56 43.25 N 135 37.18 W CAT CAT

 05-May-11 8:55 12 1 SEB 05 NEU012 122 56 35.69 N 135 28.55 W NEU QTowF

 05-May-11 9:19 12 2 SEB05 BON011 125 56 34.97 N 135 27.97 W 20BON QTowF 20BON NET 2 TANGLED ON RECOVERY.

 FLOW COUNTS FOR 20BON NET 1 ARE

 QUESTIONALBLE. FLOW COUNTS FOR

 20BON NET 2 FAILED

***Wednesday, May 18, 2011*** ***Page 2 of 18***

**Cruise Summary For FOCI Cruise 1TT11 (TN263)**

 **Date** **Time** **FOCI** **Alternate** **Depth**

 **(GMT)** **(GMT)** **Station** **Haul** **Grid** **Station** **(m)** **Latitude** **Longitude** **Gear** **SamplesCollected** **HaulComments**

 05-May-11 9:19 12 2 SEB05 BON011 125 56 34.97 N 135 27.97 W 60BON AMGEN, QTowF, RCountL 20BON NET 2 WAS WOUND AROUND

 WIRE. FLOW METER WAS ANOMALOUSLY

 LOW FOR NET 1. NIETHER NET MAY HAVE

 WORKED CORRECTLY -- NET 1

 QUESTIONABLE & NET 2 FAIL

 05-May-11 9:19 12 2 SEB05 BON011 125 56 34.97 N 135 27.97 W CAT CAT 20BON NET 2 WAS WOUND AROUND

 WIRE. FLOW METER WAS ANOMALOUSLY

 LOW FOR NET 1. NIETHER NET MAY HAVE

 WORKED CORRECTLY -- NET 1

 QUESTIONABLE & NET 2 FAIL

 05-May-11 11:56 14 1 SEA5 NEU013 126 56 26.47 N 135 19.89 W NEU QTowF Repairs done on canvas collar of net after

 tow. Sharp edges of neuston cutting through

 collar. Two small rips on bottom of collar.

 05-May-11 14:09 14 4 SEA5 BON012 143 56 25.94 N 135 20.23 W 20BON QTowF

 05-May-11 14:09 14 4 SEA5 BON012 143 56 25.94 N 135 20.23 W 60BON AMGEN, QTowF, RCountL

 05-May-11 14:09 14 4 SEA5 BON012 143 56 25.94 N 135 20.23 W CAT CAT

 05-May-11 16:17 15 2 SEA10 NEU014 175 56 23.88 N 135 27.48 W NEU QTowF

 05-May-11 16:30 15 3 SEA10 BON013 175 56 24.45 N 135 27.41 W 20BON QTowF

 05-May-11 16:30 15 3 SEA10 BON013 175 56 24.45 N 135 27.41 W 60BON AMGEN, QTowF, RCountL

 05-May-11 16:30 15 3 SEA10 BON013 175 56 24.45 N 135 27.41 W CAT CAT

 05-May-11 18:14 16 1 SEA20 NEU015 1000 56 18.53 N 135 41.70 W NEU QTowF

 05-May-11 21:43 16 3 SEA20 BON014 1016 56 18.38 N 135 40.78 W 20BON QTowF

 05-May-11 21:43 16 3 SEA20 BON014 1016 56 18.38 N 135 40.78 W 60BON AMGEN, QTowF, RCountL

 05-May-11 21:43 16 3 SEA20 BON014 1016 56 18.38 N 135 40.78 W CAT CAT

 05-May-11 23:19 17 1 SEB20 NEU016 1065 56 27.96 N 135 51.60 W NEU QTowF

 05-May-11 23:45 17 2 SEB20 BON015 1065 56 27.75 N 135 50.49 W 20BON QTowF

 05-May-11 23:45 17 2 SEB20 BON015 1065 56 27.75 N 135 50.49 W 60BON AMGEN, QTowF, RCountL

 05-May-11 23:45 17 2 SEB20 BON015 1065 56 27.75 N 135 50.49 W CAT CAT

 06-May-11 1:12 18 1 SEB10 NEU017 168 56 32.90 N 135 36.55 W NEU QTowF

 06-May-11 1:36 18 2 SEB10 BON016 166 56 32.56 N 135 35.55 W 20BON QTowF

 06-May-11 1:36 18 2 SEB10 BON016 166 56 32.56 N 135 35.55 W 60BON L-Musc, QTowF, RCountL

 06-May-11 1:36 18 2 SEB10 BON016 166 56 32.56 N 135 35.55 W CAT CAT

 06-May-11 3:17 19 1 SEC10 NEU018 181 56 41.11 N 135 43.75 W NEU QTowF

 06-May-11 3:40 19 2 SEC10 BON017 168 56 41.70 N 135 42.77 W 20BON QTowF

 06-May-11 3:40 19 2 SEC10 BON017 168 56 41.70 N 135 42.77 W 60BON AMGEN, QTowF, RCountL

 06-May-11 3:40 19 2 SEC10 BON017 168 56 41.70 N 135 42.77 W CAT CAT

 06-May-11 5:25 20 1 SEC20 NEU019 978 56 36.65 N 135 59.66 W NEU QTowF

 06-May-11 5:50 20 2 SEC20 BON018 881 56 36.73 N 135 58.23 W 20BON QTowF

 06-May-11 5:50 20 2 SEC20 BON018 881 56 36.73 N 135 58.23 W 60BON AMGEN, QTowF, RCountL

 06-May-11 5:50 20 2 SEC20 BON018 881 56 36.73 N 135 58.23 W CAT CAT

***Wednesday, May 18, 2011*** ***Page 3 of 18***

**Cruise Summary For FOCI Cruise 1TT11 (TN263)**

 **Date** **Time** **FOCI** **Alternate** **Depth**

 **(GMT)** **(GMT)** **Station** **Haul** **Grid** **Station** **(m)** **Latitude** **Longitude** **Gear** **SamplesCollected** **HaulComments**

 06-May-11 7:33 21 1 SED20 NEU020 904 56 45.56 N 136 09.24 W NEU QTowF

 06-May-11 9:21 21 3 SED20 BON019 1500 56 45.36 N 136 08.41 W 20BON QTowF FLOW METERS SPINNING IN 20 KT WIND

 06-May-11 9:21 21 3 SED20 BON019 1500 56 45.36 N 136 08.41 W 60BON QTowF, RCountL FLOW METERS SPINNING IN 20 KT WIND

 06-May-11 9:21 21 3 SED20 BON019 1500 56 45.36 N 136 08.41 W CAT CAT FLOW METERS SPINNING IN 20 KT WIND

 06-May-11 10:50 22 1 SED10 NEU021 200 56 50.29 N 135 54.24 W NEU QTowF

 06-May-11 12:02 22 3 SED10 BON020 200 56 49.83 N 135 52.04 W 20BON QTowF DATA LAT/LONG FROM KACHEL DATA

 LOGGER

 06-May-11 12:02 22 3 SED10 BON020 200 56 49.83 N 135 52.04 W 60BON AMGEN, QTowF, RCountJ DATA LAT/LONG FROM KACHEL DATA

 LOGGER

 06-May-11 12:02 22 3 SED10 BON020 200 56 49.83 N 135 52.04 W CAT CAT DATA LAT/LONG FROM KACHEL DATA

 LOGGER

 06-May-11 13:00 23 1 SED05 NEU022 138 56 53.04 N 135 46.58 W NEU QTowF

 06-May-11 13:51 23 3 SED05 BON021 138 56 52.99 N 135 44.93 W 20BON QTowF

 06-May-11 13:51 23 3 SED05 BON021 138 56 52.99 N 135 44.93 W 60BON QTowF, RCountL

 06-May-11 13:51 23 3 SED05 BON021 138 56 52.99 N 135 44.93 W CAT CAT

 06-May-11 14:42 24 1 SED0 NEU023 112 56 55.20 N 135 39.11 W NEU QTowF

 06-May-11 16:01 24 3 SED0 BON022 143 56 55.40 N 136 36.97 W 20BON QTowF TIDAL CURRENTS OR CHANGES IN SHIP

 SPEED MADE FOR A POOR TOW

 TRAJECTORY. NET WOULDN'T DROP

 BELOW 117 M.

 06-May-11 16:01 24 3 SED0 BON022 143 56 55.40 N 136 36.97 W 60BON AMGEN, QTowF, RCountL TIDAL CURRENTS OR CHANGES IN SHIP

 SPEED MADE FOR A POOR TOW

 TRAJECTORY. NET WOULDN'T DROP

 BELOW 117 M.

 06-May-11 16:01 24 3 SED0 BON022 143 56 55.40 N 136 36.97 W CAT CAT TIDAL CURRENTS OR CHANGES IN SHIP

 SPEED MADE FOR A POOR TOW

 TRAJECTORY. NET WOULDN'T DROP

 BELOW 117 M.

 06-May-11 18:50 26 1 SEE7.5 NEU024 92 57 00.66 N 135 58.02 W NEU QTowF

 06-May-11 19:15 26 2 SEE7.5 BON023 67 57 00.64 N 135 56.31 W 20BON QTowF

 06-May-11 19:15 26 2 SEE7.5 BON023 67 57 00.64 N 135 56.31 W 60BON AMGEN, QTowF, RCountL

 06-May-11 19:15 26 2 SEE7.5 BON023 67 57 00.64 N 135 56.31 W CAT CAT

 06-May-11 20:12 27 1 SEE10 NEU025 125 56 59.01 N 136 02.49 W NEU QTowF

 06-May-11 20:34 27 2 SEE10 BON024 132 56 58.50 N 136 01.52 W 20BON QTowF

 06-May-11 20:34 27 2 SEE10 BON024 132 56 58.50 N 136 01.52 W 60BON QTowF, RCountL

 06-May-11 20:34 27 2 SEE10 BON024 132 56 58.50 N 136 01.52 W CAT CAT

 06-May-11 22:06 28 1 SEE20 NEU026 1841 56 54.40 N 136 17.91 W NEU QTowF

 06-May-11 22:32 28 2 SEE20 BON025 1744 56 54.04 N 136 16.23 W 20BON QTowF

 06-May-11 22:32 28 2 SEE20 BON025 1744 56 54.04 N 136 16.23 W 60BON QTowF, RCountL

 06-May-11 22:32 28 2 SEE20 BON025 1744 56 54.04 N 136 16.23 W CAT CAT

 07-May-11 0:19 29 1 SEF20 NEU027 1566 57 03.43 N 136 27.24 W NEU QTowF

 07-May-11 0:43 29 2 SEF20 BON026 1756 57 03.08 N 136 26.11 W 20BON QTowF

***Wednesday, May 18, 2011*** ***Page 4 of 18***

**Cruise Summary For FOCI Cruise 1TT11 (TN263)**

 **Date** **Time** **FOCI** **Alternate** **Depth**

 **(GMT)** **(GMT)** **Station** **Haul** **Grid** **Station** **(m)** **Latitude** **Longitude** **Gear** **SamplesCollected** **HaulComments**

 07-May-11 0:43 29 2 SEF20 BON026 1756 57 03.08 N 136 26.11 W 60BON AMGEN, QTowF, RCountL

 07-May-11 0:43 29 2 SEF20 BON026 1756 57 03.08 N 136 26.11 W CAT CAT

 07-May-11 2:05 30 1 SEF10 NEU028 236 57 08.07 N 136 12.40 W NEU QTowF

 07-May-11 2:27 30 2 SEF10 BON027 212 57 07.74 N 136 11.00 W 20BON QTowF

 07-May-11 2:27 30 2 SEF10 BON027 212 57 07.74 N 136 11.00 W 60BON QTowF, RCountL

 07-May-11 2:27 30 2 SEF10 BON027 212 57 07.74 N 136 11.00 W CAT CAT

 07-May-11 3:25 31 1 SEF5 NEU029 168 57 10.58 N 136 03.45 W NEU QTowF

 07-May-11 3:49 31 2 SEF5 BON028 161 57 11.32 N 136 02.42 W 20BON QTowF

 07-May-11 3:49 31 2 SEF5 BON028 161 57 11.32 N 136 02.42 W 60BON AMGEN, QTowF, RCountL

 07-May-11 3:49 31 2 SEF5 BON028 161 57 11.32 N 136 02.42 W CAT CAT

 07-May-11 4:45 32 1 SEF0 NEU030 87 57 12.82 N 135 56.36 W NEU QTowF Flowmeter revs low; probably fouled by kelp

 found in net / codend.

 07-May-11 5:04 32 2 SEF0 BON029 80 57 13.24 N 135 57.34 W 20BON QTowF

 07-May-11 5:04 32 2 SEF0 BON029 80 57 13.24 N 135 57.34 W 60BON AMGEN, QTowF, RCountL

 07-May-11 5:04 32 2 SEF0 BON029 80 57 13.24 N 135 57.34 W CAT CAT

 07-May-11 6:32 33 1 SEG0A NEU031 58 57 22.99 N 136 00.75 W NEU QTowF

 07-May-11 7:17 33 3 SEG0A BON030 85 57 22.29 N 136 02.04 W 20BON QTowF

 07-May-11 7:17 33 3 SEG0A BON030 85 57 22.29 N 136 02.04 W 60BON AMGEN, QTowF, RCountL

 07-May-11 7:17 33 3 SEG0A BON030 85 57 22.29 N 136 02.04 W CAT CAT

 07-May-11 8:09 34 1 SEG0 NEU032 102 57 22.18 N 136 04.12 W NEU QTowF

 07-May-11 9:53 34 4 SEG0 BON031 114 57 22.73 N 136 05.20 W 20BON QTowF SALP CITY

 07-May-11 9:53 34 4 SEG0 BON031 114 57 22.73 N 136 05.20 W 60BON AMGEN, QTowF, RCountL SALP CITY

 07-May-11 9:53 34 4 SEG0 BON031 114 57 22.73 N 136 05.20 W CAT CAT SALP CITY

 07-May-11 10:53 35 1 SEG5 NEU033 182 57 19.49 N 136 12.04 W NEU QTowF

 07-May-11 11:43 35 3 SEG5 BON032 180 57 18.87 N 136 11.67 W 20BON QTowF

 07-May-11 11:43 35 3 SEG5 BON032 180 57 18.87 N 136 11.67 W 60BON AMGEN, QTowF, RCountL

 07-May-11 11:43 35 3 SEG5 BON032 180 57 18.87 N 136 11.67 W CAT CAT

 07-May-11 12:40 36 1 SEG10 NEU034 520 57 16.71 N 136 19.98 W NEU QTowF FLOW COUNTS LOW. ANGLE OF

 NEUSTON MAY BE TAKING MOST OF THE

 WATER BELOW THE FLOW METER

 07-May-11 13:51 36 3 SEG10 BON033 485 57 17.15 N 136 20.62 W 20BON QTowF

 07-May-11 13:51 36 3 SEG10 BON033 485 57 17.15 N 136 20.62 W 60BON AMGEN, QTowF, RCountL

 07-May-11 13:51 36 3 SEG10 BON033 485 57 17.15 N 136 20.62 W CAT CAT

 07-May-11 15:29 37 1 SEG20 NEU035 1728 57 11.82 N 136 36.55 W NEU QTowF

 07-May-11 18:13 37 3 SEG20 BON034 1805 57 10.89 N 136 37.03 W 20BON QTowF

 07-May-11 18:13 37 3 SEG20 BON034 1805 57 10.89 N 136 37.03 W 60BON AMGEN, QTowF, RCountL

 07-May-11 18:13 37 3 SEG20 BON034 1805 57 10.89 N 136 37.03 W CAT CAT

 07-May-11 19:53 38 1 SEH20 NEU036 1932 57 21.15 N 136 44.35 W NEU QTowF

 07-May-11 20:18 38 2 SEH20 BON035 2367 57 20.02 N 136 44.63 W 20BON QTowF

 07-May-11 20:18 38 2 SEH20 BON035 2367 57 20.02 N 136 44.63 W 60BON AMGEN, QTowF, RCountL

***Wednesday, May 18, 2011*** ***Page 5 of 18***

**Cruise Summary For FOCI Cruise 1TT11 (TN263)**

 **Date** **Time** **FOCI** **Alternate** **Depth**

 **(GMT)** **(GMT)** **Station** **Haul** **Grid** **Station** **(m)** **Latitude** **Longitude** **Gear** **SamplesCollected** **HaulComments**

 07-May-11 20:18 38 2 SEH20 BON035 2367 57 20.02 N 136 44.63 W CAT CAT

 07-May-11 21:59 39 1 SEH10 NEU037 304 57 26.28 N 136 28.63 W NEU QTowF

 07-May-11 22:24 39 2 SEH10 BON036 790 57 25.15 N 136 29.07 W 20BON QTowF Net 2 used for Qtow because copepods from

 previous haul seen in net 1 before tow.

 07-May-11 22:24 39 2 SEH10 BON036 790 57 25.15 N 136 29.07 W 60BON AMGEN, QTowF, RCountL

 07-May-11 22:24 39 2 SEH10 BON036 790 57 25.15 N 136 29.07 W CAT CAT Net 2 used for Qtow because copepods from

 previous haul seen in net 1 before tow.

 07-May-11 23:32 40 1 SEH5 NEU038 164 57 27.96 N 136 20.69 W NEU QTowF

 07-May-11 23:54 40 2 SEH5 BON037 169 57 28.04 N 136 21.84 W 20BON QTowF

 07-May-11 23:54 40 2 SEH5 BON037 169 57 28.04 N 136 21.84 W 60BON QTowF, RCountL

 07-May-11 23:54 40 2 SEH5 BON037 169 57 28.04 N 136 21.84 W CAT CAT

 08-May-11 0:53 41 1 SEH0 NEU039 78 57 30.57 N 136 12.42 W NEU QTowF

 08-May-11 1:13 41 2 SEH0 BON038 70 57 30.69 N 136 13.56 W 20BON QTowF

 08-May-11 1:13 41 2 SEH0 BON038 70 57 30.69 N 136 13.56 W 60BON QTowF, RCountL

 08-May-11 1:13 41 2 SEH0 BON038 70 57 30.69 N 136 13.56 W CAT CAT

 08-May-11 1:50 42 1 SEH0A NEU040 92 57 31.92 N 136 08.66 W NEU QTowF

 08-May-11 2:14 42 2 SEH0A BON039 160 57 32.04 N 136 10.33 W 20BON Discard bongo hit bottom; no samples saved. Re did

 tow.

 08-May-11 2:14 42 2 SEH0A BON039 160 57 32.04 N 136 10.33 W 60BON Discard bongo hit bottom; no samples saved. Re did

 tow.

 08-May-11 2:14 42 2 SEH0A BON039 160 57 32.04 N 136 10.33 W CAT CAT bongo hit bottom; no samples saved. Re did

 tow.

 08-May-11 3:01 42 3 SEH0A BON040 72 57 31.81 N 136 09.76 W 20BON QTowF

 08-May-11 3:01 42 3 SEH0A BON040 72 57 31.81 N 136 09.76 W 60BON AMGEN, QTowF, RCountL

 08-May-11 3:01 42 3 SEH0A BON040 72 57 31.81 N 136 09.76 W CAT CAT

 08-May-11 4:32 43 1 SEI0 NEU041 95 57 39.42 N 136 21.87 W NEU QTowF

 08-May-11 4:52 43 2 SEI0 BON041 107 57 39.10 N 136 22.94 W 20BON QTowF

 08-May-11 4:52 43 2 SEI0 BON041 107 57 39.10 N 136 22.94 W 60BON QTowF, RCountL

 08-May-11 4:52 43 2 SEI0 BON041 107 57 39.10 N 136 22.94 W CAT CAT

 08-May-11 5:35 44 1 SEI5 NEU042 161 57 37.18 N 136 29.62 W NEU QTowF

 08-May-11 5:57 44 2 SEI5 BON042 174 57 36.78 N 136 30.60 W 20BON QTowF

 08-May-11 5:57 44 2 SEI5 BON042 174 57 36.78 N 136 30.60 W 60BON AMGEN, QTowF, RCountL Salps on 60BON net 1 Flowmeter.

 08-May-11 5:57 44 2 SEI5 BON042 174 57 36.78 N 136 30.60 W CAT CAT

 08-May-11 6:47 45 1 SEI10 NEU043 540 57 34.80 N 136 37.54 W NEU QTowF

 08-May-11 7:15 45 2 SEI10 BON043 790 57 34.42 N 136 39.19 W 20BON QTowF

 08-May-11 7:15 45 2 SEI10 BON043 790 57 34.42 N 136 39.19 W 60BON AMGEN, QTowF, RCountL

 08-May-11 7:15 45 2 SEI10 BON043 790 57 34.42 N 136 39.19 W CAT CAT

 08-May-11 8:37 46 1 SEI20 NEU044 1765 57 30.02 N 136 52.70 W NEU QTowF Flow revs very high; quest.

 08-May-11 9:00 46 2 SEI20 BON044 1765 57 29.65 N 136 53.66 W 20BON QTowF

 08-May-11 9:00 46 2 SEI20 BON044 1765 57 29.65 N 136 53.66 W 60BON AMGEN, QTowF, RCountL

***Wednesday, May 18, 2011*** ***Page 6 of 18***

**Cruise Summary For FOCI Cruise 1TT11 (TN263)**

 **Date** **Time** **FOCI** **Alternate** **Depth**

 **(GMT)** **(GMT)** **Station** **Haul** **Grid** **Station** **(m)** **Latitude** **Longitude** **Gear** **SamplesCollected** **HaulComments**

 08-May-11 9:00 46 2 SEI20 BON044 1765 57 29.65 N 136 53.66 W CAT CAT

 08-May-11 10:36 47 1 SEJ20 NEU045 1530 57 38.97 N 137 01.85 W NEU QTowF

 08-May-11 11:01 47 2 SEJ20 BON045 1971 57 38.51 N 137 02.82 W 20BON QTowF

 08-May-11 11:01 47 2 SEJ20 BON045 1971 57 38.51 N 137 02.82 W 60BON AMGEN, QTowF, RCountL

 08-May-11 11:01 47 2 SEJ20 BON045 1971 57 38.51 N 137 02.82 W CAT CAT

 08-May-11 12:40 48 1 SEJ10 NEU046 700 57 43.80 N 136 45.97 W NEU QTowF

 08-May-11 13:04 48 2 SEJ20 BON046 746 57 43.74 N 136 46.62 W 20BON QTowF

 08-May-11 13:04 48 2 SEJ20 BON046 746 57 43.74 N 136 46.62 W 60BON AMGEN, QTowF, RCountL

 08-May-11 13:04 48 2 SEJ20 BON046 746 57 43.74 N 136 46.62 W CAT CAT

 08-May-11 14:14 49 1 SEJ5 NEU047 143 57 46.42 N 136 37.70 W NEU QTowF

 08-May-11 14:34 49 2 SEJ5 BON047 122 57 46.31 N 136 38.51 W 20BON QTowF

 08-May-11 14:34 49 2 SEJ5 BON047 122 57 46.31 N 136 38.51 W 60BON AMGEN, QTowF, RCountL

 08-May-11 14:34 49 2 SEJ5 BON047 122 57 46.31 N 136 38.51 W CAT CAT

 08-May-11 15:31 50 1 SEJ0 NEU048 96 57 48.25 N 136 31.02 W NEU QTowF

 08-May-11 15:50 50 2 SEJ0 BON048 103 57 48.13 N 136 32.41 W 20BON QTowF

 08-May-11 15:50 50 2 SEJ0 BON048 103 57 48.13 N 136 32.41 W 60BON AMGEN, QTowF, RCountL

 08-May-11 15:50 50 2 SEJ0 BON048 103 57 48.13 N 136 32.41 W CAT CAT

 08-May-11 17:20 51 1 SEK0 NEU049 103 57 57.12 N 136 39.40 W NEU QTowF Seaweed / Fucus rinsed and removed.

 08-May-11 18:14 51 3 SEK0 BON049 112 57 56.97 N 136 40.54 W 20BON QTowF

 08-May-11 18:14 51 3 SEK0 BON049 112 57 56.97 N 136 40.54 W 60BON QTowF, RCountL

 08-May-11 18:14 51 3 SEK0 BON049 112 57 56.97 N 136 40.54 W CAT CAT

 08-May-11 19:01 52 1 SEK5 NEU050 152 57 55.01 N 136 47.19 W NEU QTowF

 08-May-11 19:53 52 3 SEK5 BON050 157 57 54.76 N 136 48.33 W 20BON QTowF

 08-May-11 19:53 52 3 SEK5 BON050 157 57 54.76 N 136 48.33 W 60BON AMGEN, QTowF, RCountL

 08-May-11 19:53 52 3 SEK5 BON050 157 57 54.76 N 136 48.33 W CAT CAT

 08-May-11 20:34 53 1 SEK10 NEU051 460 57 52.81 N 136 54.46 W NEU QTowF

 08-May-11 21:39 53 3 SEK10 BON051 458 57 52.40 N 136 55.13 W 20BON QTowF

 08-May-11 21:39 53 3 SEK10 BON051 458 57 52.40 N 136 55.13 W 60BON AMGEN, QTowF, RCountL

 08-May-11 21:39 53 3 SEK10 BON051 458 57 52.40 N 136 55.13 W CAT CAT

 08-May-11 23:01 54 1 SEK20 NEU052 233 57 47.79 N 135 10.62 W NEU QTowF

 08-May-11 23:59 54 3 SEK20 BON052 266 57 47.54 N 137 10.48 W 20BON QTowF

 08-May-11 23:59 54 3 SEK20 BON052 266 57 47.54 N 137 10.48 W 60BON AMGEN, QTowF, RCountL

 08-May-11 23:59 54 3 SEK20 BON052 266 57 47.54 N 137 10.48 W CAT CAT

 09-May-11 1:44 55 1 SEL20 NEU053 170 57 56.67 N 137 21.68 W NEU QTowF

 09-May-11 2:33 55 3 SEL20 BON053 168 57 55.95 N 137 22.34 W 20BON QTowF

 09-May-11 2:33 55 3 SEL20 BON053 168 57 55.95 N 137 22.34 W 60BON AMGEN, QTowF, RCountL

 09-May-11 2:33 55 3 SEL20 BON053 168 57 55.95 N 137 22.34 W CAT CAT

 09-May-11 3:43 56 1 XST4 NEU054 341 57 55.15 N 137 12.56 W NEU QTowF

 09-May-11 4:39 56 3 XST4 BON054 270 57 54.68 N 137 14.00 W 20BON QTowF 4 Arrowtooth Flounder larvae in 60bon net 2.

***Wednesday, May 18, 2011*** ***Page 7 of 18***

**Cruise Summary For FOCI Cruise 1TT11 (TN263)**

 **Date** **Time** **FOCI** **Alternate** **Depth**

 **(GMT)** **(GMT)** **Station** **Haul** **Grid** **Station** **(m)** **Latitude** **Longitude** **Gear** **SamplesCollected** **HaulComments**

 09-May-11 4:39 56 3 XST4 BON054 270 57 54.68 N 137 14.00 W 60BON AMGEN, QTowF, RCountL 4 Arrowtooth Flounder larvae in 60bon net 2.

 09-May-11 4:39 56 3 XST4 BON054 270 57 54.68 N 137 14.00 W CAT CAT

 09-May-11 6:17 57 1 XST3 NEU055 442 57 54.38 N 137 01.90 W NEU QTowF Flowmeter revs low.

 09-May-11 7:21 57 3 XST3 BON055 443 57 54.55 N 137 00.98 W 20BON QTowF 60BON net 1 failed= cod end blew out.

 09-May-11 7:21 57 3 XST3 BON055 443 57 54.55 N 137 00.98 W 60BON AMGEN, QTowF, RCountL 60BON net 1 failed= cod end blew out.

 09-May-11 7:21 57 3 XST3 BON055 443 57 54.55 N 137 00.98 W CAT CAT 60BON net 1 failed= cod end blew out.

 09-May-11 8:42 57 4 XST3 MOC001 447 57 53.90 N 137 02.25 W MOC1 NetFluor, QTowF, SAL, TEMP

 09-May-11 10:59 59 1 XST1 NEU056 180 57 51.86 N 136 50.15 W NEU QTowF Flowmeter revs low.

 09-May-11 11:49 59 3 XST1 BON056 180 57 51.29 N 136 50.06 W 20BON QTowF

 09-May-11 11:49 59 3 XST1 BON056 180 57 51.29 N 136 50.06 W 60BON AMGEN, QTowF, RCountL

 09-May-11 11:49 59 3 XST1 BON056 180 57 51.29 N 136 50.06 W CAT CAT

 09-May-11 13:54 60 1 SEL10 NEU057 399 58 01.10 N 137 02.89 W NEU QTowF

 09-May-11 13:54 60 2 SEL10 BON057 402 58 01.10 N 137 02.89 W 20BON QTowF

 09-May-11 13:54 60 2 SEL10 BON057 402 58 01.10 N 137 02.89 W 60BON AMGEN, QTowF, RCountL

 09-May-11 13:54 60 2 SEL10 BON057 402 58 01.10 N 137 02.89 W CAT CAT

 09-May-11 14:59 61 1 SEL5 NEU058 383 58 03.34 N 136 56.36 W NEU QTowF

 09-May-11 15:21 61 2 SEL5 BON058 382 58 03.14 N 136 55.04 W 20BON QTowF

 09-May-11 15:21 61 2 SEL5 BON058 382 58 03.14 N 136 55.04 W 60BON AMGEN, QTowF, RCountL

 09-May-11 15:21 61 2 SEL5 BON058 382 58 03.14 N 136 55.04 W CAT CAT

 09-May-11 16:42 62 1 SEL0 NEU059 100 58 08.06 N 136 44.43 W NEU QTowF

 09-May-11 17:25 62 3 SEL0 BON059 115 58 07.57 N 136 44.13 W 20BON QTowF Net 2 of 20bon stuck in front of net 2 60bon.

 Net 2 60bon fail.

 09-May-11 17:25 62 3 SEL0 BON059 115 58 07.57 N 136 44.13 W 60BON QTowF Net 2 of 20bon stuck in front of net 2 60bon.

 Net 2 60bon fail.

 09-May-11 17:25 62 3 SEL0 BON059 115 58 07.57 N 136 44.13 W CAT CAT Net 2 of 20bon stuck in front of net 2 60bon.

 Net 2 60bon fail.

 09-May-11 19:20 62 4 SEL0 MOC002 100 58 08.48 N 136 44.01 W MOC1 NetFluor, QTowF, SAL, TEMP Net 2 jar overflowed slightly during

 preservation; some copepods lost.

 09-May-11 21:02 63 1 XS1 NEU060 134 58 06.76 N 136 31.94 W NEU QTowF

 09-May-11 21:51 63 3 XS1 BON060 137 58 06.77 N 136 31.93 W 20BON Discard Net package hit bottom because ship drifted

 backward into shallow water. Net 1 60Bon was

 saved before noting sediment was present in

 20Bon.

 09-May-11 21:51 63 3 XS1 BON060 137 58 06.77 N 136 31.93 W 60BON QTowF Net package hit bottom because ship drifted

 backward into shallow water. Net 1 60Bon was

 saved before noting sediment was present in

 20Bon.

 09-May-11 21:51 63 3 XS1 BON060 137 58 06.77 N 136 31.93 W CAT CAT Net package hit bottom because ship drifted

 backward into shallow water. Net 1 60Bon was

 saved before noting sediment was present in

 20Bon.

 09-May-11 22:41 63 4 XS1 BON061 138 58 06.72 N 136 32.11 W 20BON QTowF Conservative on deployment depth due to net

 collision with bottom on previous tow.

***Wednesday, May 18, 2011*** ***Page 8 of 18***

**Cruise Summary For FOCI Cruise 1TT11 (TN263)**

 **Date** **Time** **FOCI** **Alternate** **Depth**

 **(GMT)** **(GMT)** **Station** **Haul** **Grid** **Station** **(m)** **Latitude** **Longitude** **Gear** **SamplesCollected** **HaulComments**

 09-May-11 22:41 63 4 XS1 BON061 138 58 06.72 N 136 32.11 W 60BON AMGEN, QTowF, RCountL Conservative on deployment depth due to net

 collision with bottom on previous tow.

 09-May-11 22:41 63 4 XS1 BON061 138 58 06.72 N 136 32.11 W CAT CAT Conservative on deployment depth due to net

 collision with bottom on previous tow.

 09-May-11 23:24 64 1 XS2 NEU061 322 58 08.46 N 136 35.49 W NEU QTowF

 10-May-11 0:24 64 3 XS2 BON062 320 58 08.53 N 136 35.99 W 20BON QTowF

 10-May-11 0:24 64 3 XS2 BON062 320 58 08.53 N 136 35.99 W 60BON AMGEN, QTowF, RCountL

 10-May-11 0:24 64 3 XS2 BON062 320 58 08.53 N 136 35.99 W CAT CAT

 10-May-11 1:26 65 1 XS3 NEU062 251 58 09.79 N 136 36.43 W NEU QTowF

 10-May-11 1:42 65 3 XS3 BON063 133 58 09.73 N 136 37.17 W 20BON QTowF Net retreived before initial target depth was

 reached due to reduced bottom depth during

 tow.

 10-May-11 1:42 65 3 XS3 BON063 133 58 09.73 N 136 37.17 W 60BON AMGEN, QTowF, RCountL Net retreived before initial target depth was

 reached due to reduced bottom depth during

 tow.

 10-May-11 1:42 65 3 XS3 BON063 133 58 09.73 N 136 37.17 W CAT CAT Net retreived before initial target depth was

 reached due to reduced bottom depth during

 tow.

 10-May-11 4:40 67 1 SEM0 NEU063 155 58 15.08 N 136 56.75 W NEU QTowF CTD only at previous station 66. So no COD

 form was completed.

 10-May-11 5:23 67 3 SEM0 BON064 142 58 15.40 N 136 56.05 W 20BON QTowF

 10-May-11 5:23 67 3 SEM0 BON064 142 58 15.40 N 136 56.05 W 60BON AMGEN, QTowF, RCountL

 10-May-11 5:23 67 3 SEM0 BON064 142 58 15.40 N 136 56.05 W CAT CAT

 10-May-11 6:50 69 1 SEM05 NEU064 127 58 12.62 N 137 05.13 W NEU QTowF

 10-May-11 7:37 69 3 SEM05 BON065 122 58 13.20 N 137 04.87 W 20BON QTowF

 10-May-11 7:37 69 3 SEM05 BON065 122 58 13.20 N 137 04.87 W 60BON AMGEN, QTowF, RCountL

 10-May-11 7:37 69 3 SEM05 BON065 122 58 13.20 N 137 04.87 W CAT CAT

 10-May-11 8:31 70 1 SEM10 NEU065 125 58 10.06 N 137 13.58 W NEU QTowF

 10-May-11 9:20 70 3 SEM10 BON066 127 58 10.72 N 137 13.23 W 20BON QTowF SEACAT STOPPED AT BOTTOM OF TOW.

 ESTIMATED DEPTH FROM WIRE OUT AND

 ANGLE (50 DEG). RESTARTED SEACAT

 FOR UPCAST

 10-May-11 9:20 70 3 SEM10 BON066 127 58 10.72 N 137 13.23 W 60BON AMGEN, QTowF, RCountL SEACAT STOPPED AT BOTTOM OF TOW.

 ESTIMATED DEPTH FROM WIRE OUT AND

 ANGLE (50 DEG). RESTARTED SEACAT

 FOR UPCAST

 10-May-11 9:20 70 3 SEM10 BON066 127 58 10.72 N 137 13.23 W CAT CAT SEACAT STOPPED AT BOTTOM OF TOW.

 ESTIMATED DEPTH FROM WIRE OUT AND

 ANGLE (50 DEG). RESTARTED SEACAT

 FOR UPCAST

 10-May-11 10:48 71 1 SEM20 NEU066 145 58 05.20 N 137 29.70 W NEU QTowF

 10-May-11 11:36 71 3 SEM20 BON067 141 58 05.72 N 137 29.46 W 20BON QTowF

 10-May-11 11:36 71 3 SEM20 BON067 141 58 05.72 N 137 29.46 W 60BON AMGEN, QTowF, RCountL

***Wednesday, May 18, 2011*** ***Page 9 of 18***

**Cruise Summary For FOCI Cruise 1TT11 (TN263)**

 **Date** **Time** **FOCI** **Alternate** **Depth**

 **(GMT)** **(GMT)** **Station** **Haul** **Grid** **Station** **(m)** **Latitude** **Longitude** **Gear** **SamplesCollected** **HaulComments**

 10-May-11 11:36 71 3 SEM20 BON067 141 58 05.72 N 137 29.46 W 60BON AMGEN, QTowF, RCountL 10 SALPS DOUBLE RINSED AND REMOVED

 FROM NET 1 SO THAT ONLY ONE JAR

 WOULD BE NEEDED

 10-May-11 11:36 71 3 SEM20 BON067 141 58 05.72 N 137 29.46 W CAT CAT

 10-May-11 22:39 72 1 XBB0 NEU067 75 59 24.82 N 139 38.94 W NEU QTowF

 10-May-11 23:04 72 2 YBB0 BON068 86 59 24.17 N 139 38.26 W 20BON QTowF Bongo did not want to sink clost to bottom;

 possibly due to current. Flowmeters spinning

 in wind.

 10-May-11 23:04 72 2 YBB0 BON068 86 59 24.17 N 139 38.26 W 60BON AMGEN, QTowF, RCountL Bongo did not want to sink clost to bottom;

 possibly due to current. Flowmeters spinning

 in wind.

 10-May-11 23:04 72 2 YBB0 BON068 86 59 24.17 N 139 38.26 W CAT CAT Bongo did not want to sink clost to bottom;

 possibly due to current. Flowmeters spinning

 in wind.

 11-May-11 0:45 73 1 YBB10 NEU068 166 59 16.83 N 139 49.13 W NEU QTowF

 11-May-11 1:09 73 2 YBB10 BON069 166 59 16.22 N 139 47.70 W 20BON QTowF

 11-May-11 1:09 73 2 YBB10 BON069 166 59 16.22 N 139 47.70 W 60BON QTowF, RCountL

 11-May-11 1:09 73 2 YBB10 BON069 166 59 16.22 N 139 47.70 W CAT CAT

 11-May-11 2:53 74 1 YBB20 NEU069 122 59 08.39 N 140 00.83 W NEU QTowF

 11-May-11 3:15 74 2 YBB20 BON070 121 59 07.81 N 139 59.54 W 20BON QTowF

 11-May-11 3:15 74 2 YBB20 BON070 121 59 07.81 N 139 59.54 W 60BON QTowF, RCountL

 11-May-11 3:15 74 2 YBB20 BON070 121 59 07.81 N 139 59.54 W CAT CAT

 11-May-11 4:45 75 1 YBB30 NEU070 151 58 59.73 N 140 11.51 W NEU QTowF

 11-May-11 5:05 75 2 YBB30 BON071 150 58 59.41 N 140 10.33 W 20BON QTowF

 11-May-11 5:05 75 2 YBB30 BON071 150 58 59.41 N 140 10.33 W 60BON AMGEN, QTowF, RCountL

 11-May-11 5:05 75 2 YBB30 BON071 150 58 59.41 N 140 10.33 W CAT CAT

 11-May-11 6:40 76 1 YBB40 NEU071 187 58 51.04 N 140 22.26 W NEU QTowF

 11-May-11 7:11 76 2 YBB40 BON072 187 58 50.47 N 140 20.54 W 20BON QTowF 104 SALPS DOUBLE RINSED AND

 REMOVED FROM NET 1 60 BON.

 11-May-11 7:11 76 2 YBB40 BON072 187 58 50.47 N 140 20.54 W 60BON AMGEN, QTowF, RCountL 104 SALPS DOUBLE RINSED AND

 REMOVED FROM NET 1 60 BON.

 11-May-11 7:11 76 2 YBB40 BON072 187 58 50.47 N 140 20.54 W CAT CAT 104 SALPS DOUBLE RINSED AND

 REMOVED FROM NET 1 60 BON.

 11-May-11 8:43 77 1 YBB50 NEU072 219 58 42.26 N 140 33.01 W NEU QTowF

 11-May-11 9:08 77 2 YBB50 BON073 216 58 42.01 N 140 31.52 W 20BON QTowF 98 SALPS DOUBLE RINSED AND REMOVED

 FROM 60BON NET 1.

 11-May-11 9:08 77 2 YBB50 BON073 216 58 42.01 N 140 31.52 W 60BON AMGEN, QTowF, RCountL 98 SALPS DOUBLE RINSED AND REMOVED

 FROM 60BON NET 1.

 11-May-11 9:08 77 2 YBB50 BON073 216 58 42.01 N 140 31.52 W CAT CAT 98 SALPS DOUBLE RINSED AND REMOVED

 FROM 60BON NET 1.

***Wednesday, May 18, 2011*** ***Page 10 of 18***

**Cruise Summary For FOCI Cruise 1TT11 (TN263)**

 **Date** **Time** **FOCI** **Alternate** **Depth**

 **(GMT)** **(GMT)** **Station** **Haul** **Grid** **Station** **(m)** **Latitude** **Longitude** **Gear** **SamplesCollected** **HaulComments**

 11-May-11 15:16 79 1 YBC50 NEU073 219 58 48.15 N 140 48.50 W NEU QTowF Lots of fish eggs and invert ? eggs. Ton of

 salps. Used 2 32 oz jars. Shortened bridle on

 top 2 ropes so it flys better and filters more

 water.

 11-May-11 16:12 79 3 YBC50 BON074 208 58 47.77 N 140 46.86 W 20BON QTowF

 11-May-11 16:12 79 3 YBC50 BON074 208 58 47.77 N 140 46.86 W 60BON AMGEN, QTowF, RCountL

 11-May-11 16:12 79 3 YBC50 BON074 208 58 47.77 N 140 46.86 W 60BON AMGEN, QTowF, RCountL Removed 30 salps from 60bon net 1 after

 double rinse.

 11-May-11 16:12 79 3 YBC50 BON074 208 58 47.77 N 140 46.86 W CAT CAT

 11-May-11 17:36 80 1 YBC40 NEU074 188 58 56.19 N 140 38.16 W NEU QTowF 39 salps double rinjsed and removed from

 sample.

 11-May-11 19:45 80 4 YBC40 BON075 180 58 55.66 N 140 37.03 W 20BON Discard Seacat malfunctioned in middle of tow. Nets

 brought up and samples discarded.

 11-May-11 19:45 80 4 YBC40 BON075 180 58 55.66 N 140 37.03 W 60BON Discard Seacat malfunctioned in middle of tow. Nets

 brought up and samples discarded.

 11-May-11 19:45 80 4 YBC40 BON075 180 58 55.66 N 140 37.03 W CAT CAT Seacat malfunctioned in middle of tow. Nets

 brought up and samples discarded.

 11-May-11 20:06 80 5 YBC40 BON076 186 58 55.66 N 140 37.03 W 20BON QTowF Redo of failed tow at st. 80 haul 4. Original

 .hex file contains part of two tows, second

 part good. Split seacat files apart.

 11-May-11 20:06 80 5 YBC40 BON076 186 58 55.66 N 140 37.03 W 60BON QTowF, RCountL Redo of failed tow at st. 80 haul 4. Original

 .hex file contains part of two tows, second

 part good. Split seacat files apart.

 11-May-11 20:06 80 5 YBC40 BON076 186 58 55.66 N 140 37.03 W CAT CAT Redo of failed tow at st. 80 haul 4. Original

 .hex file contains part of two tows, second

 part good. Split seacat files apart.

 11-May-11 21:41 81 1 YBC30 NEU075 141 59 04.57 N 140 26.00 W NEU QTowF

 11-May-11 22:26 81 3 YBC30 BON077 145 59 03.73 N 140 25.36 W 20BON QTowF 20 bon net 1 flowmeter revs low.

 11-May-11 22:26 81 3 YBC30 BON077 145 59 03.73 N 140 25.36 W 60BON AMGEN, QTowF, RCountL

 11-May-11 22:26 81 3 YBC30 BON077 145 59 03.73 N 140 25.36 W CAT CAT 20 bon net 1 flowmeter revs low.

 11-May-11 23:58 82 1 YBC20 NEU076 126 59 12.41 N 140 15.10 W NEU QTowF

 12-May-11 0:41 82 3 YBC20 BON078 127 59 12.90 N 140 16.00 W 20BON QTowF Winch operator stopped when I said standby;

 did not get as close to bottom as I wanted to.

 12-May-11 0:41 82 3 YBC20 BON078 127 59 12.90 N 140 16.00 W 60BON QTowF Winch operator stopped when I said standby;

 did not get as close to bottom as I wanted to.

 12-May-11 0:41 82 3 YBC20 BON078 127 59 12.90 N 140 16.00 W CAT CAT Winch operator stopped when I said standby;

 did not get as close to bottom as I wanted to.

 12-May-11 2:07 83 1 YBC10 NEU077 168 59 21.21 N 140 04.25 W NEU QTowF

 12-May-11 3:56 83 4 YBC10 BON079 165 59 20.59 N 140 02.44 W 20BON QTowF

 12-May-11 3:56 83 4 YBC10 BON079 165 59 20.59 N 140 02.44 W 60BON QTowF, RCountL

 12-May-11 3:56 83 4 YBC10 BON079 165 59 20.59 N 140 02.44 W CAT CAT

 12-May-11 5:31 84 1 YBC0 NEU078 95 59 29.19 N 139 53.33 W NEU QTowF

 12-May-11 6:18 84 3 YBC0 BON080 103 59 28.69 N 139 53.17 W 20BON QTowF

***Wednesday, May 18, 2011*** ***Page 11 of 18***

**Cruise Summary For FOCI Cruise 1TT11 (TN263)**

 **Date** **Time** **FOCI** **Alternate** **Depth**

 **(GMT)** **(GMT)** **Station** **Haul** **Grid** **Station** **(m)** **Latitude** **Longitude** **Gear** **SamplesCollected** **HaulComments**

 12-May-11 6:18 84 3 YBC0 BON080 103 59 28.69 N 139 53.17 W 60BON AMGEN, QTowF, RCountL

 12-May-11 6:18 84 3 YBC0 BON080 103 59 28.69 N 139 53.17 W CAT CAT

 12-May-11 7:43 85 1 YBD0 NEU079 107 59 32.91 N 140 10.22 W NEU QTowF

 12-May-11 8:02 85 2 YBD0 BON081 106 59 33.21 N 140 11.30 W 20BON QTowF

 12-May-11 8:02 85 2 YBD0 BON081 106 59 33.21 N 140 11.30 W 60BON AMGEN, QTowF, RCountL

 12-May-11 8:02 85 2 YBD0 BON081 106 59 33.21 N 140 11.30 W CAT CAT

 12-May-11 9:13 86 1 YBD10 NEU080 230 59 26.01 N 140 21.97 W NEU QTowF

 12-May-11 9:37 86 2 YBD10 BON082 235 59 26.39 N 140 23.02 W 20BON QTowF

 12-May-11 9:37 86 2 YBD10 BON082 235 59 26.39 N 140 23.02 W 60BON AMGEN, QTowF, RCountL

 12-May-11 9:37 86 2 YBD10 BON082 235 59 26.39 N 140 23.02 W CAT CAT

 12-May-11 10:59 87 1 YBD20 NEU081 137 59 17.62 N 140 32.52 W NEU QTowF

 12-May-11 10:59 87 2 YBD20 BON083 137 59 17.62 N 140 32.52 W 20BON QTowF

 12-May-11 10:59 87 2 YBD20 BON083 137 59 17.62 N 140 32.52 W 60BON AMGEN, QTowF, RCountL

 12-May-11 10:59 87 2 YBD20 BON083 137 59 17.62 N 140 32.52 W CAT CAT

 12-May-11 13:09 88 1 YBD30 NEU082 158 59 09.64 N 140 43.40 W NEU QTowF

 12-May-11 13:33 88 2 YBD30 BON084 157 59 09.83 N 140 44.54 W 20BON QTowF

 12-May-11 13:33 88 2 YBD30 BON084 157 59 09.83 N 140 44.54 W 60BON AMGEN, QTowF, RCountL

 12-May-11 13:33 88 2 YBD30 BON084 157 59 09.83 N 140 44.54 W CAT CAT

 12-May-11 15:16 89 1 YBD40 NEU083 188 59 02.03 N 140 53.86 W NEU QTowF

 12-May-11 15:41 89 2 YBD40 BON085 185 59 02.85 N 140 53.17 W 20BON QTowF

 12-May-11 15:41 89 2 YBD40 BON085 185 59 02.85 N 140 53.17 W 60BON AMGEN, QTowF, RCountL

 12-May-11 15:41 89 2 YBD40 BON085 185 59 02.85 N 140 53.17 W CAT CAT

 12-May-11 17:50 90 1 YBD50 BON086 1123 58 52.97 N 141 06.52 W 60BON AMGEN, QTowF, RCountL Deep bongo - no 20 bongo attached.

 12-May-11 18:53 90 2 YBD50 NEU084 2900 58 53.12 N 141 07.10 W NEU QTowF

 12-May-11 19:16 90 3 YBD50 BON087 2781 58 53.53 N 141 05.93 W 20BON QTowF 40 salps double rinsed and removed fron

 60BON net 1.

 12-May-11 19:16 90 3 YBD50 BON087 2781 58 53.53 N 141 05.93 W 60BON AMGEN, QTowF, RCountL 40 salps double rinsed and removed fron

 60BON net 1.

 12-May-11 19:16 90 3 YBD50 BON087 2781 58 53.53 N 141 05.93 W CAT CAT 40 salps double rinsed and removed fron

 60BON net 1.

 12-May-11 20:43 91 1 YBE50 NEU085 771 58 58.55 N 141 22.45 W NEU QTowF

 12-May-11 21:57 91 3 YBE50 BON088 700 58 58.96 N 141 21.53 W 20BON QTowF

 12-May-11 21:57 91 3 YBE50 BON088 700 58 58.96 N 141 21.53 W 60BON AMGEN, QTowF, RCountL

 12-May-11 21:57 91 3 YBE50 BON088 700 58 58.96 N 141 21.53 W 60BON AMGEN, QTowF, RCountL 20 salps double rinsed and removed from

 60bon net 1.

 12-May-11 21:57 91 3 YBE50 BON088 700 58 58.96 N 141 21.53 W CAT CAT

 12-May-11 23:19 92 1 YBE40 NEU086 263 59 07.30 N 141 11.93 W NEU QTowF 47 salps removed after double rinse.

 13-May-11 0:14 92 3 YBE40 BON089 226 59 06.95 N 141 11.30 W 20BON QTowF

 13-May-11 0:14 92 3 YBE40 BON089 226 59 06.95 N 141 11.30 W 60BON AMGEN, QTowF, RCountL

 13-May-11 0:14 92 3 YBE40 BON089 226 59 06.95 N 141 11.30 W CAT CAT

***Wednesday, May 18, 2011*** ***Page 12 of 18***

**Cruise Summary For FOCI Cruise 1TT11 (TN263)**

 **Date** **Time** **FOCI** **Alternate** **Depth**

 **(GMT)** **(GMT)** **Station** **Haul** **Grid** **Station** **(m)** **Latitude** **Longitude** **Gear** **SamplesCollected** **HaulComments**

 13-May-11 1:39 93 1 YBE30 NEU087 173 59 15.13 N 141 01.72 W NEU QTowF

 13-May-11 2:27 93 3 YBE30 BON090 180 59 14.75 N 141 00.27 W 20BON QTowF

 13-May-11 2:27 93 3 YBE30 BON090 180 59 14.75 N 141 00.27 W 60BON AMGEN, QTowF, RCountL

 13-May-11 2:27 93 3 YBE30 BON090 180 59 14.75 N 141 00.27 W CAT CAT

 13-May-11 4:10 94 1 YBE20 NEU088 159 59 23.55 N 140 49.99 W NEU QTowF Sticks and Fucus rinsed and removed.

 13-May-11 4:52 94 3 YBE20 BON091 161 59 24.02 N 140 50.88 W 20BON QTowF

 13-May-11 4:52 94 3 YBE20 BON091 161 59 24.02 N 140 50.88 W 60BON AMGEN, QTowF, RCountL

 13-May-11 4:52 94 3 YBE20 BON091 161 59 24.02 N 140 50.88 W CAT CAT

 13-May-11 6:20 95 1 YBE10 NEU089 276 59 31.34 N 140 39.05 W NEU QTowF

 13-May-11 7:22 95 3 YBE10 BON092 277 59 31.34 N 140 39.16 W 20BON QTowF

 13-May-11 7:22 95 3 YBE10 BON092 277 59 31.34 N 140 39.16 W 60BON AMGEN, QTowF, RCountL

 13-May-11 7:22 95 3 YBE10 BON092 277 59 31.34 N 140 39.16 W CAT CAT

 13-May-11 8:34 95 4 YBE10 MOC03 274 59 30.88 N 140 38.08 W MOC1 NetFluor, QTowF, SAL, TEMP PROGRAM DID NOT CORRECTLY CLOSE

 FILE AT NET 9. USED VOLUME FILTERED

 AT TIME OF MARK

 13-May-11 10:00 96 1 YBE2.5 NEU090 159 59 37.29 N 140 32.25 W NEU QTowF YBE0 too close to land- moved slightly off

 shore for this station.

 13-May-11 10:47 96 3 YBE2.5 BON093 144 59 37.10 N 140 31.04 W 20BON QTowF YBE0 too close to land, so moved slightly

 more offshore for this station.

 13-May-11 10:47 96 3 YBE2.5 BON093 144 59 37.10 N 140 31.04 W 60BON AMGEN, QTowF, RCountL YBE0 too close to land, so moved slightly

 more offshore for this station.

 13-May-11 10:47 96 3 YBE2.5 BON093 144 59 37.10 N 140 31.04 W CAT CAT YBE0 too close to land, so moved slightly

 more offshore for this station.

 13-May-11 12:31 97 1 YBF10 NEU091 108 59 37.58 N 140 55.00 W NEU QTowF

 13-May-11 12:49 97 2 YBF10 BON094 103 59 39.82 N 140 54.05 W 20BON QTowF

 13-May-11 12:49 97 2 YBF10 BON094 103 59 39.82 N 140 54.05 W 60BON AMGEN, QTowF, RCountL

 13-May-11 12:49 97 2 YBF10 BON094 103 59 39.82 N 140 54.05 W CAT CAT

 13-May-11 14:24 98 1 YBF20 NEU092 310 59 28.79 N 141 06.12 W NEU QTowF

 13-May-11 14:47 98 2 YBF20 BON095 301 59 29.14 N 141 04.85 W 20BON QTowF

 13-May-11 14:47 98 2 YBF20 BON095 301 59 29.14 N 141 04.85 W 60BON AMGEN, QTowF, RCountL

 13-May-11 14:47 98 2 YBF20 BON095 301 59 29.14 N 141 04.85 W CAT CAT

 13-May-11 16:34 99 1 YBF30 NEU093 330 59 20.40 N 141 16.39 W NEU QTowF

 13-May-11 16:58 99 2 YBF30 BON096 323 59 20.70 N 141 15.02 W 20BON QTowF

 13-May-11 16:58 99 2 YBF30 BON096 323 59 20.70 N 141 15.02 W 60BON AMGEN, QTowF, RCountL

 13-May-11 16:58 99 2 YBF30 BON096 323 59 20.70 N 141 15.02 W CAT CAT

 13-May-11 18:34 99 3 YBF30 MOC004 323 59 19.74 N 141 16.11 W MOC1 NetFluor, QTowF, SAL, TEMP

 13-May-11 18:34 99 3 YBF30 MOC004 323 59 19.74 N 141 16.11 W MOC1 NetFluor, QTowF, SAL, TEMP 100 salps double rinsed and removed from net

 7.

 14-May-11 2:02 105 1 YBG40 NEU094 195 59 17.40 N 141 43.21 W NEU QTowF Accidentally went to YBG40 instead of

 YBF40. Did the nets but will come back to do

 the CTD in line with the others.

***Wednesday, May 18, 2011*** ***Page 13 of 18***

**Cruise Summary For FOCI Cruise 1TT11 (TN263)**

 **Date** **Time** **FOCI** **Alternate** **Depth**

 **(GMT)** **(GMT)** **Station** **Haul** **Grid** **Station** **(m)** **Latitude** **Longitude** **Gear** **SamplesCollected** **HaulComments**

 14-May-11 2:31 105 2 YBG40 BON097 195 59 17.16 N 141 41.32 W 20BON QTowF Accdentally went to YBG40 instead of YBF40.

 Did the nets but will come back for the CTD

 to do it in line with the others.

 14-May-11 2:31 105 2 YBG40 BON097 195 59 17.16 N 141 41.32 W 60BON AMGEN, QTowF, RCountL Accdentally went to YBG40 instead of YBF40.

 Did the nets but will come back for the CTD

 to do it in line with the others.

 14-May-11 2:31 105 2 YBG40 BON097 195 59 17.16 N 141 41.32 W CAT CAT Accdentally went to YBG40 instead of YBF40.

 Did the nets but will come back for the CTD

 to do it in line with the others.

 14-May-11 3:52 106 1 YBF40 NEU095 340 59 12.30 N 141 27.24 W NEU QTowF

 14-May-11 4:14 106 2 YBF40 BON098 344 59 12.14 N 141 26.10 W 20BON QTowF

 14-May-11 4:14 106 2 YBF40 BON098 344 59 12.14 N 141 26.10 W 60BON AMGEN, QTowF, RCountL

 14-May-11 4:14 106 2 YBF40 BON098 344 59 12.14 N 141 26.10 W CAT CAT

 14-May-11 6:06 107 1 YBF50 BON099 732 59 04.15 N 141 37.52 W 60BON AMGEN, QTowF, RCountL DEEP BONGO - NO 20 CM FRAME. SOME

 DEEP-SEA FISH IN NET 2 (HOPCROFT

 SAMPLE) THAT WILL BE REQUESTED TO

 COME BACK TO SEATTLE.

 14-May-11 6:06 107 1 YBF50 BON099 732 59 04.15 N 141 37.52 W CAT CAT DEEP BONGO - NO 20 CM FRAME. SOME

 DEEP-SEA FISH IN NET 2 (HOPCROFT

 SAMPLE) THAT WILL BE REQUESTED TO

 COME BACK TO SEATTLE.

 14-May-11 7:10 107 2 YBF50 NEU095 2300 59 03.68 N 141 38.86 W NEU QTowF

 14-May-11 7:37 107 3 YBF50 BON100 749 59 04.38 N 141 37.89 W 20BON QTowF SEACAT DIRECTION SWITCHED ON LAST

 WATCH -- AIR BUBBLER UP AND INTAKE

 DOWN. WINCH COUNTER DISPLAY

 CHANGED LAST WATCH. MISSED

 WIREOUT AT BOTTOM OF TOW. REMOVED

 15 SALPS FROM 60BON NET 1.

 14-May-11 7:37 107 3 YBF50 BON100 749 59 04.38 N 141 37.89 W 60BON AMGEN, QTowF, RCountL SEACAT DIRECTION SWITCHED ON LAST

 WATCH -- AIR BUBBLER UP AND INTAKE

 DOWN. WINCH COUNTER DISPLAY

 CHANGED LAST WATCH. MISSED

 WIREOUT AT BOTTOM OF TOW. REMOVED

 15 SALPS FROM 60BON NET 1.

 14-May-11 7:37 107 3 YBF50 BON100 749 59 04.38 N 141 37.89 W CAT CAT SEACAT DIRECTION SWITCHED ON LAST

 WATCH -- AIR BUBBLER UP AND INTAKE

 DOWN. WINCH COUNTER DISPLAY

 CHANGED LAST WATCH. MISSED

 WIREOUT AT BOTTOM OF TOW. REMOVED

 15 SALPS FROM 60BON NET 1.

 14-May-11 9:03 108 1 YBG50 NEU096 1300 59 08.59 N 141 54.88 W NEU QTowF REMOVED 21 SALPS AND 2 CLUMPS OF

 FUCUS SP.

 14-May-11 10:41 108 3 YBG50 BON101 1189 59 09.15 N 141 54.01 W 20BON QTowF 1 large myctophid removed from 60BON net 2.

 14-May-11 10:41 108 3 YBG50 BON101 1189 59 09.15 N 141 54.01 W 60BON AMGEN, QTowF, RCountL 1 large myctophid removed from 60BON net 2.

***Wednesday, May 18, 2011*** ***Page 14 of 18***

**Cruise Summary For FOCI Cruise 1TT11 (TN263)**

 **Date** **Time** **FOCI** **Alternate** **Depth**

 **(GMT)** **(GMT)** **Station** **Haul** **Grid** **Station** **(m)** **Latitude** **Longitude** **Gear** **SamplesCollected** **HaulComments**

 14-May-11 10:41 108 3 YBG50 BON101 1189 59 09.15 N 141 54.01 W CAT CAT 1 large myctophid removed from 60BON net 2.

 14-May-11 13:43 110 1 YBG30 NEU097 180 59 25.82 N 141 33.52 W NEU QTowF

 14-May-11 14:28 110 3 YBG30 BON102 180 59 26.01 N 141 32.37 W 20BON QTowF

 14-May-11 14:28 110 3 YBG30 BON102 180 59 26.01 N 141 32.37 W 60BON AMGEN, QTowF, RCountL

 14-May-11 14:28 110 3 YBG30 BON102 180 59 26.01 N 141 32.37 W CAT CAT

 14-May-11 15:49 111 1 YBG20 NEU098 124 59 34.40 N 141 22.36 W NEU QTowF

 14-May-11 16:31 111 3 YBG20 BON103 118 59 34.76 N 141 21.23 W 20BON QTowF

 14-May-11 16:31 111 3 YBG20 BON103 118 59 34.76 N 141 21.23 W 60BON AMGEN, QTowF, RCountL

 14-May-11 16:31 111 3 YBG20 BON103 118 59 34.76 N 141 21.23 W CAT CAT

 14-May-11 17:31 112 1 YBG40 NEU099 58 59 40.92 N 141 14.32 W NEU QTowF

 14-May-11 18:08 112 3 YBG10 BON104 55 59 41.42 N 141 13.78 W 20BON QTowF

 14-May-11 18:08 112 3 YBG10 BON104 55 59 41.42 N 141 13.78 W 60BON QTowF, RCountL

 14-May-11 18:08 112 3 YBG10 BON104 55 59 41.42 N 141 13.78 W CAT CAT

 15-May-11 2:08 113 1 KIA4 NEU100 1600 59 32.87 N 143 55.16 W NEU QTowF

 15-May-11 3:51 113 3 KIA4 BON105 1049 59 33.92 N 143 55.58 W 20BON QTowF Inside jar labels have incorrect date; outside

 labels are correct.

 15-May-11 3:51 113 3 KIA4 BON105 1049 59 33.92 N 143 55.58 W 60BON AMGEN, QTowF, RCountL Inside jar labels have incorrect date; outside

 labels are correct.

 15-May-11 3:51 113 3 KIA4 BON105 1049 59 33.92 N 143 55.58 W CAT CAT Inside jar labels have incorrect date; outside

 labels are correct.

 15-May-11 5:13 114 1 KIA3 NEU101 178 59 39.63 N 144 11.11 W NEU QTowF

 15-May-11 6:04 114 3 KIA3 BON106 162 59 40.29 N 144 11.47 W 20BON QTowF

 15-May-11 6:04 114 3 KIA3 BON106 162 59 40.29 N 144 11.47 W 60BON AMGEN, QTowF, RCountL

 15-May-11 6:04 114 3 KIA3 BON106 162 59 40.29 N 144 11.47 W CAT CAT

 15-May-11 6:51 115 1 KIA2 NEU102 130 59 43.05 N 144 18.34 W NEU QTowF

 15-May-11 7:35 115 3 KIA2 BON107 123 59 43.50 N 144 19.31 W 20BON QTowF

 15-May-11 7:35 115 3 KIA2 BON107 123 59 43.50 N 144 19.31 W 60BON AMGEN, QTowF, RCountL

 15-May-11 7:35 115 3 KIA2 BON107 123 59 43.50 N 144 19.31 W CAT CAT

 15-May-11 8:26 116 1 KIA1 NEU103 92 59 46.37 N 144 29.79 W NEU QTowF

 15-May-11 9:06 116 3 KIA1 BON018 83 59 46.66 N 144 30.81 W 20BON QTowF Nets full of herring larvae. Did not remove all

 larvae.

 15-May-11 9:06 116 3 KIA1 BON018 83 59 46.66 N 144 30.81 W 60BON AMGEN, QTowF, RCountL

 15-May-11 9:06 116 3 KIA1 BON018 83 59 46.66 N 144 30.81 W 60BON AMGEN, QTowF, RCountL Nets full of herring larvae. Did not remove all

 larvae.

 15-May-11 9:06 116 3 KIA1 BON018 83 59 46.66 N 144 30.81 W CAT CAT Nets full of herring larvae. Did not remove all

 larvae.

 15-May-11 12:18 117 1 KIB4 NEU104 2012 59 20.36 N 144 54.70 W NEU QTowF

***Wednesday, May 18, 2011*** ***Page 15 of 18***

**Cruise Summary For FOCI Cruise 1TT11 (TN263)**

 **Date** **Time** **FOCI** **Alternate** **Depth**

 **(GMT)** **(GMT)** **Station** **Haul** **Grid** **Station** **(m)** **Latitude** **Longitude** **Gear** **SamplesCollected** **HaulComments**

 15-May-11 14:23 117 3 KIB4 BON109 2089 59 20.09 N 144 55.89 W 20BON QTowF Thick layer of phytoplankton 0-20m. Nets

 may have clogged; 60cm bongo counts less

 than other comparable tows and 20cm bongos

 are less than 60s. Did not pick 60bon net 2 for

 fish larvae.

 15-May-11 14:23 117 3 KIB4 BON109 2089 59 20.09 N 144 55.89 W 60BON QTowF Thick layer of phytoplankton 0-20m. Nets

 may have clogged; 60cm bongo counts less

 than other comparable tows and 20cm bongos

 are less than 60s. Did not pick 60bon net 2 for

 fish larvae.

 15-May-11 14:23 117 3 KIB4 BON109 2089 59 20.09 N 144 55.89 W CAT CAT Thick layer of phytoplankton 0-20m. Nets

 may have clogged; 60cm bongo counts less

 than other comparable tows and 20cm bongos

 are less than 60s. Did not pick 60bon net 2 for

 fish larvae.

 15-May-11 16:02 118 1 KIB3 NEU105 638 59 28.18 N 144 54.68 W NEU QTowF Net brown with phytoplankton. 24 salps

 removed. Did not do a bongo tow because of

 thick phytoplankton.

 15-May-11 17:58 119 1 KIB2 NEU105 171 59 35.92 N 144 54.90 W NEU QTowF

 15-May-11 18:46 119 3 KIB2 BON110 166 59 36.65 N 144 55.72 W 20BON QTowF

 15-May-11 18:46 119 3 KIB2 BON110 166 59 36.65 N 144 55.72 W 60BON AMGEN, QTowF, RCountL

 15-May-11 18:46 119 3 KIB2 BON110 166 59 36.65 N 144 55.72 W CAT CAT

 15-May-11 19:48 120 1 KIB1 NEU106 116 59 43.64 N 144 55.09 W NEU QTowF

 15-May-11 20:32 120 3 KIB1 BON111 116 59 44.36 N 144 55.67 W 20BON QTowF

 15-May-11 20:32 120 3 KIB1 BON111 116 59 44.36 N 144 55.67 W 60BON AMGEN, QTowF, RCountL

 15-May-11 20:32 120 3 KIB1 BON111 116 59 44.36 N 144 55.67 W CAT CAT

 15-May-11 22:25 121 1 KIC1 NEU107 114 59 43.99 N 145 25.08 W NEU QTowF

 15-May-11 22:53 121 2 KIC1 BON112 114 59 43.45 N 145 25.54 W 20BON QTowF

 15-May-11 22:53 121 2 KIC1 BON112 114 59 43.45 N 145 25.54 W 60BON AMGEN, QTowF, RCountL

 15-May-11 22:53 121 2 KIC1 BON112 114 59 43.45 N 145 25.54 W CAT CAT

 16-May-11 1:28 122 1 KIC2 NEU108 132 59 34.25 N 145 26.95 W NEU QTowF

 16-May-11 2:38 122 3 KIC2 BON113 126 59 35.62 N 145 26.19 W 20BON Discard Winch readout not wokring. Stopped paying

 out wire and brough back aboard to fix winch.

 16-May-11 2:38 122 3 KIC2 BON113 126 59 35.62 N 145 26.19 W 60BON Discard Winch readout not wokring. Stopped paying

 out wire and brough back aboard to fix winch.

 16-May-11 2:38 122 3 KIC2 BON113 126 59 35.62 N 145 26.19 W CAT CAT Winch readout not wokring. Stopped paying

 out wire and brough back aboard to fix winch.

 16-May-11 3:00 122 4 KIC2 BON114 126 59 36.07 N 145 25.84 W 20BON QTowF Winch monitors not working; but the winch

 readout by the winch was working. So a crew

 member stood by the winch to commincate

 wire rates and wire out.

 16-May-11 3:00 122 4 KIC2 BON114 126 59 36.07 N 145 25.84 W 60BON AMGEN, QTowF, RCountL Winch monitors not working; but the winch

 readout by the winch was working. So a crew

 member stood by the winch to commincate

 wire rates and wire out.

***Wednesday, May 18, 2011*** ***Page 16 of 18***

**Cruise Summary For FOCI Cruise 1TT11 (TN263)**

 **Date** **Time** **FOCI** **Alternate** **Depth**

 **(GMT)** **(GMT)** **Station** **Haul** **Grid** **Station** **(m)** **Latitude** **Longitude** **Gear** **SamplesCollected** **HaulComments**

 16-May-11 3:00 122 4 KIC2 BON114 126 59 36.07 N 145 25.84 W CAT CAT Winch monitors not working; but the winch

 readout by the winch was working. So a crew

 member stood by the winch to commincate

 wire rates and wire out.

 16-May-11 4:38 123 1 KIC3 NEU108 520 59 26.21 N 145 26.39 W NEU QTowF

 16-May-11 5:52 123 3 KIC3 BON115 854 59 25.79 N 145 25.41 W 20BON QTowF 20 SALPS DOUBLE RINSED AND REMOVED

 FROM 60BON NET1

 16-May-11 5:52 123 3 KIC3 BON115 854 59 25.79 N 145 25.41 W 60BON AMGEN, QTowF, RCountL 20 SALPS DOUBLE RINSED AND REMOVED

 FROM 60BON NET1

 16-May-11 5:52 123 3 KIC3 BON115 854 59 25.79 N 145 25.41 W CAT CAT 20 SALPS DOUBLE RINSED AND REMOVED

 FROM 60BON NET1

 16-May-11 7:25 124 1 KIC4 NEU109 1900 59 17.51 N 145 27.24 W NEU QTowF 12 SALPS DOUBLE RINSED AND REMOVED.

 16-May-11 9:28 124 3 KIC4 BON116 1923 59 17.26 N 145 26.88 W 20BON QTowF 17 SALPS DOUBLE RINSED AND REMOVED

 FROM 60BON NET 1

 16-May-11 9:28 124 3 KIC4 BON116 1923 59 17.26 N 145 26.88 W 60BON AMGEN, QTowF, RCountL 17 SALPS DOUBLE RINSED AND REMOVED

 FROM 60BON NET 1

 16-May-11 9:28 124 3 KIC4 BON116 1923 59 17.26 N 145 26.88 W CAT CAT 17 SALPS DOUBLE RINSED AND REMOVED

 FROM 60BON NET 1

 17-May-11 7:32 126 1 SEM20 CAL001 142 58 05.50 N 137 29.48 W CALVET QTowF NETS 1 & 2 COMBINED. TIME, DEPTH, AND

 POSITION ARE FROM CTD IMMEDIATELY

 FOLLOWING CALVET

 17-May-11 9:15 127 1 SEM10 CAL002 128 58 10.19 N 137 13.08 W CALVET QTowF COMBINED NETS 1 AND 2. TIME / DEPTH /

 POSITION WERE FROM CTD CAST

 IMMEDIATELY FOLLOWING CALVET

 17-May-11 10:12 128 1 SEM5 CAL003 132 58 12.57 N 137 04.93 W CALVET QTowF NET 1 ONLY; NET 2 SPILLED

 17-May-11 11:23 129 1 SEM0 CAL004 141 58 15.32 N 136 55.95 W CALVET QTowF NETS 1 & 2 COMBINED

 17-May-11 14:48 131 1 SEK0 NEU110 80 57 57.35 N 136 38.74 W NEU QTowF

 17-May-11 15:08 131 2 SEK0 CAL005 72 57 57.16 N 136 38.38 W CALVET QTowF NETS 1 & 2 COMBINED

 17-May-11 15:32 131 4 SEK0 BON117 72 57 56.93 N 136 38.18 W 20BON QTowF

 17-May-11 15:32 131 4 SEK0 BON117 72 57 56.93 N 136 38.18 W 60BON AMGEN, QTowF, RCountL

 17-May-11 15:32 131 4 SEK0 BON117 72 57 56.93 N 136 38.18 W CAT CAT

 17-May-11 16:19 132 1 SEK5 NEU111 150 57 55.13 N 136 46.95 W NEU QTowF

 17-May-11 16:41 132 2 SEK5 CAL006 152 57 55.13 N 136 46.95 W CALVET QTowF COMBINED NETS 1 & 2. Flow counts may

 be high; net was at surface longer than usual.

 17-May-11 17:10 132 4 SEK5 BON118 153 57 54.64 N 136 47.21 W 20BON QTowF

 17-May-11 17:10 132 4 SEK5 BON118 153 57 54.64 N 136 47.21 W 60BON AMGEN, QTowF, RCountL

 17-May-11 17:10 132 4 SEK5 BON118 153 57 54.64 N 136 47.21 W CAT CAT

 17-May-11 18:02 133 1 SEK10 NEU112 464 57 52.74 N 136 55.15 W NEU QTowF

 17-May-11 18:23 133 2 SEK10 CAL007 457 57 52.39 N 136 54.72 W CALVET QTowF Both nets were preserved in the same jar.

 17-May-11 19:09 133 4 SEK10 BON119 455 57 52.13 N 136 54.63 W 20BON QTowF

 17-May-11 19:09 133 4 SEK10 BON119 455 57 52.13 N 136 54.63 W 60BON AMGEN, QTowF, RCountL

 17-May-11 19:09 133 4 SEK10 BON119 455 57 52.13 N 136 54.63 W CAT CAT

***Wednesday, May 18, 2011*** ***Page 17 of 18***

**Cruise Summary For FOCI Cruise 1TT11 (TN263)**

 **Date** **Time** **FOCI** **Alternate** **Depth**

 **(GMT)** **(GMT)** **Station** **Haul** **Grid** **Station** **(m)** **Latitude** **Longitude** **Gear** **SamplesCollected** **HaulComments**

 17-May-11 20:37 134 1 SEK20 NEU113 225 57 47.86 N 137 11.91 W NEU QTowF

 17-May-11 21:02 134 2 SEK20 CAL008 352 57 47.41 N 137 11.36 W CALVET QTowF Nets 1 and 2 combined in one jar. Stopwatch

 not started on time. Time calculated using

 CTD file (CalVet attached to CTD wire)

 17-May-11 21:43 134 4 SEK20 BON120 523 57 47.03 N 137 11.59 W 20BON QTowF

 17-May-11 21:43 134 4 SEK20 BON120 523 57 47.03 N 137 11.59 W 60BON AMGEN, QTowF, RCountL

 17-May-11 21:43 134 4 SEK20 BON120 523 57 47.03 N 137 11.59 W CAT CAT

***Wednesday, May 18, 2011*** ***Page 18 of 18***