

DRAFT CRUISE REPORT

Cruise Number: DY0807

FOCI Number: 3DY08

Ship:

FRV *Oscar Dyson*

Area of Operations:

Eastern Bering Sea

Itinerary:

Date depart / port: May 12, 2008 / Dutch Harbor, AK

Date arrive / port: May 21, 2008 / Dutch Harbor, AK

Participating organizations:

NOAA - Alaska Fisheries Science Center (AFSC)

Chief Scientist:

Jeffrey Napp M / AFSC
(206) 526-4148
Jeff.Napp@noaa.gov

Personnel:

| | |
|--------------------|----------|
| Debbie Blood | F / AFSC |
| Rachael Cartwright | F / AFSC |
| Dan Cooper | M / AFSC |
| Colleen Harpold | F / AFSC |
| Kathy Mier | F / AFSC |
| Ingrid Spies | F / AFSC |
| Matt Wilson | M / AFSC |

Cruise Objectives:

Examine the interactions among climate, weather, and the recruitment of fishes in the eastern Bering Sea. We conducted ichthyoplankton and zooplankton survey in the waters along the eastern Aleutian Island chain and the Alaska Peninsula. This work was needed to describe larval fish assemblages and to determine how physical and biological factors affected the transport and survival of fish larvae. The cruise was collaboration between the North Pacific Research Board's Bering Sea Integrated Ecosystem Research Program (BSIERP) and NOAA's North Pacific Climate Regimes and Ecosystem Productivity (NPCREP). Fish species of particular interest during this cruise were: arrowtooth flounder (*Atheresthes stomias*), Pacific cod (*Gadus macrocephalus*) and walleye pollock (*Theragra chalcogramma*). We determined the horizontal and vertical distribution of these species as well as the abundance and distribution of their plankton prey. Near real time discrimination of *Atheresthes* spp. larvae was performed at sea using molecular techniques.

Summary of Operations:

| Operation | Tows |
|--|------|
| 20cm bongo (20Bon) | 70 |
| 60cm bongo (60Bon) | 74 |
| Seabird SeaCAT CTD (CAT) | 72 |
| CTD with bottle samples (CTDB) | 20 |
| 1m ² MOCNESS (MOC1) | 8 |
| Neuston (Neu) | 68 |
| Deployment of satellite buoy (SatBuoy) | 3 |

Samples Collected

| | Tows | Number |
|---|------|--------|
| Number of larvae preserved in EtOH for A. Matarese (AMGEN) | 31 | 179 |
| SeaBird SeaCat CTD (CAT) | 72 | |
| Extracted chlorophyll (Chlor) | 17 | 102 |
| SeaBird CTD (CTD) | 19 | |
| Number of <i>Bathymaster</i> spp. larvae preserved in Zfix (CW) | 8 | 30 |
| Deployment of buoy or mooring (Deploy) | 3 | 3 |
| Stimulated fluorescence collected during CTD casts (Fluor) | 18 | |
| Number of fish larvae for Ingrid Spies (genetics) (ISGEN) | 10 | 20 |
| Collection of live organisms for experiments (Live) | 1 | |
| Microzooplankton samples preserved in formalin (MZ) | 5 | 30 |
| Photosynthetically Active Radiation data collected during CTD casts (PAR) | 18 | |
| Quantitative tow preserved in formalin (QTowF) | 239 | 248 |
| Rough count of pollock larvae (RCountL) | 67 | 3017 |
| Number of samples for Ron Heintz, AFSC / TSMRI (RHBIO) | 10 | 21 |
| Steve Porter pollock or flathead sole eggs for rearing (SPEGGS) | 10 | |
| Steve Porter larval pollock for flow cytometry (SPFCM) | 3 | 60 |
| Pacific cod genetic samples for Tom Hurst - RACE Newport laboratory (THCOD) | 15 | 77 |

Summary of Cruise:

Narrative:

Our cruise began with sampling over the Bering Canyon for *Atheresthes* spp. and *Rheinhardtius hippoglossoides*. The *Atheresthes* spp. larvae were used to successfully optimize a molecular identification technique so we can visually distinguish arrowtooth and Kamchatka flounder in the future using pigment patterns and morphometrics. After completing 8 stations over Bering Canyon and 4 Unimak Pass stations, we steamed eastward up on to the shelf to begin our survey for walleye pollock (*Theragra chalcogramma*) and Pacific cod (*Gadus macrocephalus*). Walleye pollock, Pacific cod, and arrowtooth flounder are all target species of our NPRB-funded project in the Bering Sea Integrated Ecosystem Research Program (BSIERP). The pollock and cod patch was located and the eastern portion of it was mapped for the next several days before we began a diel study to determine their vertical distribution. While in the patch we obtained samples of larvae for a BSIERP project led by R. Heintz, AFSC / TSMRI to assess the physiological condition of the target fish species during their first year of life. After completing the diel study, we mapped the distribution of fish larvae in the western portion of our grid and then finished the cruise over Bering Canyon to obtain more *Atheresthes* larvae. Three satellite drifters were deployed during the cruise, 2 in the pollock / cod patch and one just north of Unimak Pass. A cruise this summer led by our colleague, Dr. Nicola Hilgruber (UAF), will use the drifter data to locate the fish contained in the patch and conduct additional sampling for the NPRB project. We also obtained samples for many other ancillary projects including: molecular identification of larval fish species, larval feeding condition assessed by flow cytometry and cell cycle indices, visual physiology of Bathylagid fish larvae, larval fish net extrusion experiments, age and growth in Greenland halibut larvae. All work was completed through the combined support of NPRB and NOAA's Climate Regimes and Ecosystem Productivity programs.

Days Lost to Weather:

None

Days Lost to Equipment Failure:

None

Recommendations:

To make MOCNESS operations safer and more efficient, MOC-P and the NOAA – Fisheries should work together to obtain a conducting cable on the aft pointing traction winch. At present it is not possible to use the CTD, bongo / SeaCat, and MOCNESS in rapid succession. There are only two conducting cables to share among the various electronic sample gears and switching the cables between instruments takes additional time and has the associated risk of damaging the termination during the transfer. In addition, there is not room enough on the quarterdeck to use a cart to hold the MOCNESS while using the other pieces of sampling equipment. If scientists need to use all three pieces of equipment then the best solution is to add conducting cable to the only remaining winch (the aft pointing traction winch).

Acknowledgments:

The scientific party would like to acknowledge the hard work and support of the officers and crew of the FRV *Oscar Dyson*. This was our first cruise aboard the *Dyson*, and we were very pleased and impressed with the cooperation of the ship's officers and crew. Their hard work on our behalf helped make this cruise a big success. We especially want to thank the two Senior Survey Techs, Ms. Colleen Peters and Ms. Kathy Hough for their hard work on our behalf. LT Michael Levine, the ship's Operations Officer helped prepare us for a successful cruise, and Mr. Wiley Sliney and his able crew of fisherman helped make our deck operations safe and successful. The EcoFOCI Program is looking forward to working with the ship and her crew for many years to come.

Attachments:

Table 1. Cruise Summary

Figure 1. Station Map

Cruise Summary For FOCI Cruise 3DY08 (DY0807)

| Date (GMT) | Time (GMT) | Station | Haul | FOCI Grid | Alternate Station | Depth (m) | Latitude | Longitude | Gear | SamplesCollected | HaulComments |
|------------|------------|---------|------|-----------|-------------------|-----------|------------|-------------|-------|------------------------------|--|
| 12-May-08 | 23:06 | 1 | 1 | BM1 | NEU001 | 127 | 54 00.24 N | 166 58.15 W | Neu | QTowF | |
| 13-May-08 | 0:11 | 1 | 3 | BM1 | BON002 | 128 | 54 00.24 N | 166 34.79 W | 20Bon | QTowF | HAUL 2 FAILED SEACAT. HAUL 3 IS REPEAT |
| 13-May-08 | 0:11 | 1 | 3 | BM1 | BON002 | 128 | 54 00.24 N | 166 34.79 W | 60Bon | AMGEN, QTowF, RCountL | HAUL 2 FAILED SEACAT. HAUL 3 IS REPEAT |
| 13-May-08 | 0:11 | 1 | 3 | BM1 | BON002 | 128 | 54 00.24 N | 166 34.79 W | 60Bon | AMGEN, QTowF, RCountL | HAUL 2 FAILED SEACAT. HAUL 3 IS REPEAT. |
| 13-May-08 | 0:11 | 1 | 3 | BM1 | BON002 | 128 | 54 00.24 N | 166 34.79 W | CAT | CAT | HAUL 2 FAILED SEACAT. HAUL 3 IS REPEAT. AMGEN IS BATHYMASTER SPP. |
| 13-May-08 | 2:18 | 2 | 1 | BM4 | NEU002 | 1267 | 54 13.81 N | 166 47.87 W | Neu | QTowF | AMGEN IS BATHYMASTER SPP. |
| 13-May-08 | 2:54 | 2 | 2 | BM4 | BON003 | 1261 | 54 13.86 N | 166 47.61 W | 20Bon | QTowF | QUESTIONABLE QUANTITATIVE TOW BECAUSE SHIP SLOWED ON RETRIEVAL |
| AND | | | | | | | | | | | |
| 13-May-08 | 2:54 | 2 | 2 | BM4 | BON003 | 1261 | 54 13.86 N | 166 47.61 W | 60Bon | CW, ISGEN, QTowF, RCountL | NET DROPPED/STALLED (4) ATHERESTES SPP FOR INGRID SPIES; BATHYMASTER SPP. FOR CHRIS W; (2) GREENLAND HALIBUT LARVAE FOR ILLUSTRATION |
| 13-May-08 | 2:54 | 2 | 2 | BM4 | BON003 | 1261 | 54 13.86 N | 166 47.61 W | 60Bon | CW, ISGEN, QTowF, RCountL | QUESTIONABLE QUANTITATIVE TOW; STALLED ON RETRIEVAL |
| 13-May-08 | 2:54 | 2 | 2 | BM4 | BON003 | 1261 | 54 13.86 N | 166 47.61 W | CAT | CAT | |
| 13-May-08 | 4:53 | 3 | 1 | BM7 | NEU003 | 501 | 54 27.03 N | 166 59.70 W | Neu | QTowF | |
| 13-May-08 | 5:29 | 3 | 2 | BM7 | BON004 | 508 | 54 26.59 N | 166 59.87 W | 20Bon | QTowF | |
| 13-May-08 | 5:29 | 3 | 2 | BM7 | BON004 | 508 | 54 26.59 N | 166 59.87 W | 60Bon | CW, ISGEN, QTowF, RCountL | |
| 13-May-08 | 5:29 | 3 | 2 | BM7 | BON004 | 508 | 54 26.59 N | 166 59.87 W | CAT | CAT | |
| 13-May-08 | 7:49 | 4 | 1 | BM10 | NEU004 | 455 | 54 40.26 N | 167 12.31 W | Neu | QTowF | |
| 13-May-08 | 8:31 | 4 | 2 | BM10 | BON005 | 455 | 54 39.94 N | 167 12.13 W | 20Bon | QTowF | |
| 13-May-08 | 8:31 | 4 | 2 | BM10 | BON005 | 455 | 54 39.94 N | 167 12.13 W | 60Bon | AMGEN, ISGEN, QTowF, RCountL | |
| 13-May-08 | 8:31 | 4 | 2 | BM10 | BON005 | 455 | 54 39.94 N | 167 12.13 W | CAT | CAT | |
| 13-May-08 | 10:47 | 5 | 1 | BJ10 | CTD001 | 288 | 54 47.23 N | 166 49.05 W | CTDB | Chlor, CTD, Fluor, PAR | |
| 13-May-08 | 11:06 | 5 | 2 | BJ10 | NEU005 | 291 | 54 47.02 N | 166 48.99 W | Neu | QTowF | |
| 13-May-08 | 12:11 | 5 | 3 | BJ10 | BON006 | 288 | 54 47.28 N | 166 49.35 W | 20Bon | QTowF | |
| 13-May-08 | 12:11 | 5 | 3 | BJ10 | BON006 | 288 | 54 47.28 N | 166 49.35 W | 60Bon | AMGEN, QTowF, RCountL | |
| 13-May-08 | 12:11 | 5 | 3 | BJ10 | BON006 | 288 | 54 47.28 N | 166 49.35 W | CAT | CAT | |
| 13-May-08 | 13:48 | 6 | 1 | BJ7 | NEU006 | 418 | 54 34.36 N | 166 37.24 W | Neu | QTowF | |
| 13-May-08 | 14:21 | 6 | 2 | BJ7 | BON007 | 420 | 54 34.16 N | 166 37.58 W | 20Bon | QTowF | |
| 13-May-08 | 14:21 | 6 | 2 | BJ7 | BON007 | 420 | 54 34.16 N | 166 37.58 W | 60Bon | AMGEN, CW, QTowF, RCountL | |
| 13-May-08 | 14:21 | 6 | 2 | BJ7 | BON007 | 420 | 54 34.16 N | 166 37.58 W | CAT | CAT | |
| 13-May-08 | 15:16 | 6 | 3 | BJ7 | CTD002 | 420 | 54 34.09 N | 166 37.31 W | CTDB | Chlor, CTD, Fluor, PAR | |
| 13-May-08 | 17:25 | 7 | 1 | BJ4 | CTD003 | 674 | 54 21.00 N | 166 24.35 W | CTDB | Chlor, CTD, Fluor, PAR | |
| 13-May-08 | 18:02 | 7 | 2 | BJ4 | NEU007 | 663 | 54 21.18 N | 166 25.13 W | Neu | QTowF | |
| 13-May-08 | 18:37 | 7 | 3 | BJ4 | BON008 | 669 | 54 21.09 N | 166 24.86 W | 20Bon | QTowF | |
| 13-May-08 | 18:37 | 7 | 3 | BJ4 | BON008 | 669 | 54 21.09 N | 166 24.86 W | 60Bon | AMGEN, QTowF, RCountL | |

Cruise Summary For FOCI Cruise 3DY08 (DY0807)

| Date (GMT) | Time (GMT) | Station | Haul | FOCI Grid | Alternate Station | Depth (m) | Latitude | Longitude | Gear | SamplesCollected | HaulComments |
|------------|------------|---------|------|-----------|-------------------|-----------|------------|-------------|-------|--------------------------------------|---|
| 13-May-08 | 18:37 | 7 | 3 | BJ4 | BON008 | 669 | 54 21.09 N | 166 24.86 W | CAT | CAT | |
| 13-May-08 | 21:34 | 8 | 1 | BJ1 | NEU008 | 89 | 54 07.79 N | 166 12.11 W | Neu | QTowF | |
| 13-May-08 | 21:50 | 8 | 2 | BJ1 | BON009 | 86 | 54 07.64 N | 166 11.08 W | 20Bon | QTowF | |
| 13-May-08 | 21:50 | 8 | 2 | BJ1 | BON009 | 86 | 54 07.64 N | 166 11.08 W | 60Bon | QTowF, RCountL | |
| 13-May-08 | 21:50 | 8 | 2 | BJ1 | BON009 | 86 | 54 07.64 N | 166 11.08 W | CAT | CAT | |
| 13-May-08 | 22:26 | 8 | 3 | BJ1 | CTD004 | 89 | 54 07.99 N | 166 12.05 W | CTDB | Chlor, CTD, Fluor, PAR | |
| 14-May-08 | 1:48 | 9 | 1 | UP A | CTD005 | 110 | 54 19.56 N | 165 23.59 W | CTDB | Chlor, CTD, Fluor, PAR | FOCI Station is Unimak Pass A |
| 14-May-08 | 2:13 | 9 | 2 | UP A | NEU009 | 148 | 54 19.77 N | 165 24.53 W | Neu | QTowF | |
| 14-May-08 | 2:48 | 9 | 3 | UP A | BON010 | 147 | 54 19.66 N | 165 24.30 W | 20Bon | QTowF | |
| 14-May-08 | 2:48 | 9 | 3 | UP A | BON010 | 147 | 54 19.66 N | 165 24.30 W | 60Bon | AMGEN, QTowF, RCountL | |
| 14-May-08 | 2:48 | 9 | 3 | UP A | BON010 | 147 | 54 19.66 N | 165 24.30 W | CAT | CAT | |
| 13-May-08 | 3:45 | 10 | 1 | UP C | NEU010 | 165 | 54 22.33 N | 165 16.40 W | Neu | QTowF | |
| 14-May-08 | 4:13 | 10 | 2 | UP C | BON011 | 169 | 54 22.38 N | 165 16.75 W | 20Bon | QTowF | |
| 14-May-08 | 4:13 | 10 | 2 | UP C | BON011 | 169 | 54 22.38 N | 165 16.75 W | 60Bon | AMGEN, QTowF, RCountL | |
| 14-May-08 | 4:13 | 10 | 2 | UP C | BON011 | 169 | 54 22.38 N | 165 16.75 W | CAT | CAT | |
| 14-May-08 | 4:47 | 10 | 3 | UP C | CTD006 | 177 | 54 22.38 N | 165 17.27 W | CTDB | Chlor, CTD, Fluor, PAR | |
| 14-May-08 | 5:41 | 11 | 1 | UP E | CTD007 | 151 | 54 24.97 N | 165 09.00 W | CTDB | Chlor, CTD, Fluor, PAR | |
| 14-May-08 | 5:58 | 11 | 2 | UP E | NEU011 | 158 | 54 24.99 N | 165 09.47 W | Neu | QTowF | |
| 14-May-08 | 6:24 | 11 | 3 | UP E | BON012 | 157 | 54 25.04 N | 165 09.39 W | 20Bon | QTowF | |
| 14-May-08 | 6:24 | 11 | 3 | UP E | BON012 | 157 | 54 25.04 N | 165 09.39 W | 60Bon | QTowF, RCountL, SPEGGS, THPCOD | |
| 14-May-08 | 6:24 | 11 | 3 | UP E | BON012 | 157 | 54 25.04 N | 165 09.39 W | CAT | CAT | |
| 14-May-08 | 7:13 | 12 | 1 | UP G | NEU012 | 85 | 54 27.85 N | 165 00.91 W | Neu | QTowF | |
| 14-May-08 | 7:42 | 12 | 2 | UP G | BON013 | 52 | 54 27.63 N | 165 00.84 W | 20Bon | Discard | Hit bottom - redo. |
| 14-May-08 | 7:42 | 12 | 2 | UP G | BON013 | 52 | 54 27.63 N | 165 00.84 W | 60Bon | Discard | Hit bottom - redo. |
| 14-May-08 | 7:42 | 12 | 2 | UP G | BON013 | 52 | 54 27.63 N | 165 00.84 W | CAT | CAT | Hit bottom - redo. |
| 14-May-08 | 8:02 | 12 | 3 | UP G | BON014 | 52 | 54 27.61 N | 165 00.69 W | 20Bon | QTowF | |
| 14-May-08 | 8:02 | 12 | 3 | UP G | BON014 | 52 | 54 27.61 N | 165 00.69 W | 60Bon | AMGEN, QtowF, RCountL, SPEGGS, THCOD | |
| 14-May-08 | 8:02 | 12 | 3 | UP G | BON014 | 52 | 54 27.61 N | 165 00.69 W | CAT | CAT | |
| 14-May-08 | 8:22 | 12 | 4 | UP G | CTD008 | 78 | 54 28.00 N | 165 00.76 W | CTDB | Chlor, CTD, Fluor, PAR | |
| 15-May-08 | 0:13 | 13 | 1 | Q7 | CTD009 | 49 | 56 21.71 N | 160 48.24 W | CTDB | Chlor, CTD, Fluor, PAR | Collected water at 43 meters for egg incubation |
| 15-May-08 | 0:27 | 13 | 2 | Q7 | NEU013 | 49 | 56 21.77 N | 160 48.58 W | Neu | QTowF | |
| 15-May-08 | 0:55 | 13 | 3 | Q7 | BON015 | 48 | 56 21.39 N | 160 48.09 W | 20Bon | QTowF | |
| 15-May-08 | 0:55 | 13 | 3 | Q7 | BON015 | 48 | 56 21.39 N | 160 48.09 W | 60Bon | QTowF, RCountL | |
| 15-May-08 | 0:55 | 13 | 3 | Q7 | BON015 | 48 | 56 21.39 N | 160 48.09 W | CAT | CAT | |
| 15-May-08 | 2:22 | 14 | 1 | Q10 | NEU014 | 72 | 56 34.74 N | 161 00.82 W | Neu | QTowF | |
| 15-May-08 | 2:48 | 14 | 2 | Q10 | BON016 | 72 | 56 34.61 N | 161 00.82 W | 20Bon | QTowF | |
| 15-May-08 | 2:48 | 14 | 2 | Q10 | BON016 | 72 | 56 34.61 N | 161 00.82 W | 60Bon | QTowF, RCountL | |

Cruise Summary For FOCI Cruise 3DY08 (DY0807)

| Date (GMT) | Time (GMT) | Station | Haul | FOCI Grid | Alternate Station | Depth (m) | Latitude | Longitude | Gear | SamplesCollected | HaulComments |
|------------|------------|---------|------|-----------|-------------------|-----------|------------|-------------|-------|------------------------|--|
| 15-May-08 | 2:48 | 14 | 2 | Q10 | BON016 | 72 | 56 34.61 N | 161 00.82 W | CAT | CAT | |
| 15-May-08 | 3:05 | 14 | 3 | Q10 | CTD010 | 73 | 56 34.76 N | 161 00.88 W | CTDB | Chlor, CTD, Fluor, PAR | |
| 15-May-08 | 4:33 | 15 | 1 | Q13 | CTD011 | 68 | 56 47.91 N | 161 13.84 W | CTDB | Chlor, CTD, Fluor, PAR | |
| 15-May-08 | 4:45 | 15 | 2 | Q13 | NEU015 | 68 | 56 47.95 N | 161 13.81 W | Neu | QTowF | |
| 15-May-08 | 5:07 | 15 | 3 | Q13 | BON017 | 68 | 56 47.90 N | 161 13.95 W | 20Bon | QTowF | |
| 15-May-08 | 5:07 | 15 | 3 | Q13 | BON017 | 68 | 56 47.90 N | 161 13.95 W | 60Bon | QTowF, RCountL, SPEGGS | |
| 15-May-08 | 5:07 | 15 | 3 | Q13 | BON017 | 68 | 56 47.90 N | 161 13.95 W | 60Bon | QTowF, RCountL, SPEGGS | 9 hippoglossoides elassadon eggs collected for Steve Porter |
| 15-May-08 | 5:07 | 15 | 3 | Q13 | BON017 | 68 | 56 47.90 N | 161 13.95 W | CAT | CAT | |
| 15-May-08 | 6:32 | 16 | 1 | Q16 | NEU016 | 73 | 57 01.15 N | 161 27.20 W | Neu | QTowF | |
| 15-May-08 | 6:57 | 16 | 2 | Q16 | BON018 | 73 | 57 01.15 N | 161 27.23 W | 20Bon | QTowF | 1 chrysaora (8 cm diameter) removed from 60BON net 1. |
| 15-May-08 | 6:57 | 16 | 2 | Q16 | BON018 | 73 | 57 01.15 N | 161 27.23 W | 60Bon | QTowF, RCountL | 1 chrysaora (8 cm diameter) removed from 60BON net 1. |
| 15-May-08 | 6:57 | 16 | 2 | Q16 | BON018 | 73 | 57 01.15 N | 161 27.23 W | CAT | CAT | 1 chrysaora (8 cm diameter) removed from 60BON net 1. |
| 15-May-08 | 7:13 | 16 | 3 | Q16 | CTD012 | 73 | 57 01.18 N | 161 27.21 W | CTDB | Chlor, CTD, Fluor, PAR | |
| 15-May-08 | 10:58 | 17 | 1 | Z19 | NEU017 | 66 | 56 52.92 N | 162 51.18 W | Neu | QTowF | |
| 15-May-08 | 11:28 | 17 | 2 | Z19 | BON019 | 66 | 56 52.88 N | 162 50.91 W | 20Bon | QTowF | |
| 15-May-08 | 11:28 | 17 | 2 | Z19 | BON019 | 66 | 56 52.88 N | 162 50.91 W | 60Bon | QTowF, RCountL | |
| 15-May-08 | 11:28 | 17 | 2 | Z19 | BON019 | 66 | 56 52.88 N | 162 50.91 W | CAT | CAT | |
| 15-May-08 | 12:54 | 18 | 1 | Z16 | NEU018 | 76 | 56 39.72 N | 162 38.22 W | Neu | QTowF | |
| 15-May-08 | 13:14 | 18 | 2 | Z16 | BON020 | 76 | 56 39.71 N | 162 37.47 W | 20Bon | QTowF | |
| 15-May-08 | 13:14 | 18 | 2 | Z16 | BON020 | 76 | 56 39.71 N | 162 37.47 W | 60Bon | QTowF, RCountL, SPEGGS | 5 jellies taken out of 60Bon Net 1 before processing. |
| 15-May-08 | 13:14 | 18 | 2 | Z16 | BON020 | 76 | 56 39.71 N | 162 37.47 W | CAT | CAT | |
| 15-May-08 | 14:36 | 19 | 1 | Z13 | NEU019 | 76 | 56 26.89 N | 162 25.31 W | Neu | QTowF | |
| 15-May-08 | 15:00 | 19 | 2 | Z13 | BON021 | 76 | 56 26.55 N | 162 24.81 W | 20Bon | QTowF | 3 jellyfish removed from 60bon Net 1 |
| 15-May-08 | 15:00 | 19 | 2 | Z13 | BON021 | 76 | 56 26.55 N | 162 24.81 W | 60Bon | QTowF, RCountL | 3 jellyfish removed from 60bon Net 1 |
| 15-May-08 | 15:00 | 19 | 2 | Z13 | BON021 | 76 | 56 26.55 N | 162 24.81 W | CAT | CAT | 3 jellyfish removed from 60bon Net 1 |
| 15-May-08 | 16:30 | 20 | 1 | Z10 | NEU020 | 79 | 56 12.97 N | 162 11.99 W | Neu | QTowF | |
| 15-May-08 | 16:55 | 20 | 2 | Z10 | BON022 | 78 | 56 13.55 N | 162 11.84 W | 20Bon | QTowF | 1 large jellyfish removed from 60 bon net 1 |
| 15-May-08 | 16:55 | 20 | 2 | Z10 | BON022 | 78 | 56 13.55 N | 162 11.84 W | 60Bon | QTowF, RCountL, SPEGGS | 1 large jellyfish removed from 60 bon net 1 |
| 15-May-08 | 16:55 | 20 | 2 | Z10 | BON022 | 78 | 56 13.55 N | 162 11.84 W | 60Bon | QTowF, RCountL, SPEGGS | 1 large jellyfish removed from 60 bon Net 1; Sample lost/spilled |
| 15-May-08 | 16:55 | 20 | 2 | Z10 | BON022 | 78 | 56 13.55 N | 162 11.84 W | CAT | CAT | 1 large jellyfish removed from 60 bon net 1 |
| 15-May-08 | 19:32 | 21 | 1 | Z7 | NEU021 | 53 | 55 59.93 N | 161 59.71 W | Neu | QTowF | |
| 15-May-08 | 19:58 | 21 | 2 | Z7 | BON023 | 54 | 56 00.21 N | 161 59.32 W | 20Bon | QTowF | |
| 15-May-08 | 19:58 | 21 | 2 | Z7 | BON023 | 54 | 56 00.21 N | 161 59.32 W | 60Bon | QTowF, RCountL | |
| 15-May-08 | 19:58 | 21 | 2 | Z7 | BON023 | 54 | 56 00.21 N | 161 59.32 W | CAT | CAT | |

Cruise Summary For FOCI Cruise 3DY08 (DY0807)

| Date (GMT) | Time (GMT) | Station | Haul | FOCI Grid | Alternate Station | Depth (m) | Latitude | Longitude | Gear | SamplesCollected | HaulComments |
|--------------|------------|---------|------|-----------|-------------------|-----------|------------|-------------|-------|-----------------------|---|
| 15-May-08 | 20:20 | 22 | 1 | Z7 | | 54 | 56 00.26 N | 161 59.59 W | 60Bon | Live, SPEGGS | live tow at surface for eggs. Start mark was mark of record. Bongo out at 20:30, 55 59.84 n lat, 161 59.86 w lon. Bongo about half in water so COD calculated vol. filtered is incorrect. |
| 15-May-08 | 20:20 | 22 | 1 | Z7 | | 54 | 56 00.26 N | 161 59.59 W | 60Bon | Live, SPEGGS | live tow at surface for eggs. Start mark was mark of record. Bongo out at 20:30, 55 59.84 n lat, 161 59.86 w lon. Bongo about half in water Tow time was approx. 10 minutes. |
| 15-May-08 | 21:45 | 23 | 1 | AC7 | NEU022 | 63 | 55 53.10 N | 162 22.86 W | Neu | QTowF | |
| 15-May-08 | 22:03 | 23 | 2 | AC7 | BON024 | 60 | 55 52.69 N | 162 22.98 W | 20Bon | QTowF | |
| 15-May-08 | 22:03 | 23 | 2 | AC7 | BON024 | 60 | 55 52.69 N | 162 22.98 W | 60Bon | QTowF, RCountL | |
| 15-May-08 | 22:03 | 23 | 2 | AC7 | BON024 | 60 | 55 52.69 N | 162 22.98 W | CAT | CAT | |
| 15-May-08 | 23:30 | 24 | 1 | AC10 | NEU023 | 80 | 56 05.90 N | 162 35.35 W | Neu | QTowF | |
| 15-May-08 | 23:55 | 24 | 2 | AC10 | BON025 | 79 | 56 06.75 N | 162 36.19 W | 20Bon | QTowF | Two samples (33 and 7) for Ron Heintz |
| 15-May-08 | 23:55 | 24 | 2 | AC10 | BON025 | 79 | 56 06.75 N | 162 36.19 W | 60Bon | QTowF, RCountL, RHBIO | 20BON NET 1 HAD A HOLE IN COD END COLLAR, COLLECTED SAMPLE FROM NET |
| 2. | | | | | | | | | | | |
| 15-May-08 | 23:55 | 24 | 2 | AC10 | BON025 | 79 | 56 06.75 N | 162 36.19 W | 60Bon | QTowF, RCountL, RHBIO | Two samples (33 and 7) for Ron Heintz |
| 15-May-08 | 23:55 | 24 | 2 | AC10 | BON025 | 79 | 56 06.75 N | 162 36.19 W | CAT | CAT | Two samples (33 and 7) for Ron Heintz |
| 16-May-08 | 1:25 | 25 | 1 | AC13 | | 80 | 56 19.39 N | 162 48.23 W | Neu | Discard | FAILED TOW. NET WRAPPED AROUND |
| WIRE | | | | | | | | | | | |
| 16-May-08 | 1:28 | 25 | 2 | AC13 | NEU024 | 80 | 56 19.39 N | 162 47.97 W | Neu | QTowF | |
| 16-May-08 | 1:56 | 25 | 3 | AC13 | BON026 | 80 | 56 19.44 N | 162 48.43 W | 20Bon | QTowF | POSSIBLE CLOGGING. FLOW COUNTS FOR 500 MICRON MESH NET MUCH HIGHER |
| THAN | | | | | | | | | | | |
| 16-May-08 | 1:56 | 25 | 3 | AC13 | BON026 | 80 | 56 19.44 N | 162 48.43 W | 60Bon | QTowF, RCountL, RHBIO | OTHER MESHES POSSIBLE CLOGGING. FLOW COUNTS FOR 500 MICRON MESH NET MUCH HIGHER |
| THAN | | | | | | | | | | | |
| 16-May-08 | 1:56 | 25 | 3 | AC13 | BON026 | 80 | 56 19.44 N | 162 48.43 W | CAT | CAT | OTHER MESHES POSSIBLE CLOGGING. FLOW COUNTS FOR 500 MICRON MESH NET MUCH HIGHER |
| THAN | | | | | | | | | | | |
| 16-May-08 | 3:34 | 26 | 1 | AF13 | | 86 | 56 12.16 N | 163 12.16 W | Neu | Discard | OTHER MESHES FAILED TOW. VESSEL SPEED OVER 4 KNOTS WHEN NET DEPLOYED. TOW TIME APPROX. 2 MINUTES. REDO ON NEXT |
| HAUL. | | | | | | | | | | | |
| 16-May-08 | 3:44 | 26 | 2 | AF13 | NEU025 | 86 | 56 12.20 N | 163 11.58 W | Neu | QTowF | |
| 16-May-08 | 4:05 | 26 | 3 | AF13 | BON027 | 86 | 56 12.19 N | 163 12.24 W | 20Bon | QTowF | POSSIBLE CLOGGING. FLOW COUNTS FOR 500 MICRON MESH MUCH HIGHER THAN |
| FOR | | | | | | | | | | | |
| 16-May-08 | 4:05 | 26 | 3 | AF13 | BON027 | 86 | 56 12.19 N | 163 12.24 W | 60Bon | QTowF, RCountL, RHBIO | OTHER MESHES POSSIBLE CLOGGING. FLOW COUNTS FOR 500 MICRON MESH MUCH HIGHER THAN |
| FOR | | | | | | | | | | | |
| OTHER MESHES | | | | | | | | | | | |

Cruise Summary For FOCI Cruise 3DY08 (DY0807)

| Date (GMT) | Time (GMT) | Station | Haul | FOCI Grid | Alternate Station | Depth (m) | Latitude | Longitude | Gear | Samples Collected | Haul Comments |
|------------|------------|---------|------|-----------|-------------------|-----------|------------|-------------|---------|-------------------------------|---|
| 16-May-08 | 4:05 | 26 | 3 | AF13 | BON027 | 86 | 56 12.19 N | 163 12.24 W | CAT | CAT | POSSIBLE CLOGGING. FLOW COUNTS FOR 500 MICRON MESH MUCH HIGHER THAN OTHER MESHES |
| FOR | | | | | | | | | | | |
| 16-May-08 | 6:06 | 27 | 1 | AC16 | NEU026 | 80 | 56 32.36 N | 163 01.51 W | Neu | QTowF | |
| 16-May-08 | 6:28 | 27 | 2 | AC16 | BON028 | 80 | 56 32.54 N | 163 01.45 W | 20Bon | QTowF | REMOVED 12 CM JELLY FROM NET 1 |
| 16-May-08 | 6:28 | 27 | 2 | AC16 | BON028 | 80 | 56 32.54 N | 163 01.45 W | 60Bon | QTowF, RCountL | REMOVED 12 CM JELLY FROM NET 1 |
| 16-May-08 | 6:28 | 27 | 2 | AC16 | BON028 | 80 | 56 32.54 N | 163 01.45 W | 60Bon | QTowF, RCountL | REMOVED 12 CM JELLY FROM NET 1. POSSIBLE CLOGGING. 500 MICRON MESH HAD HIGHER FLOWMETER COUNTS THAN SMALLER MESHES. |
| 16-May-08 | 8:01 | 28 | 1 | AC19 | NEU027 | 72 | 56 45.73 N | 163 14.33 W | Neu | QTowF | |
| 16-May-08 | 8:26 | 28 | 2 | AC19 | BON029 | 72 | 56 45.73 N | 163 14.36 W | 20Bon | QTowF | 5 jellyfish removed from 60 BON Net 1 |
| 16-May-08 | 8:26 | 28 | 2 | AC19 | BON029 | 72 | 56 45.73 N | 163 14.36 W | 60Bon | QTowF, RCountL, SPEGGS | 5 jellyfish removed from 60 BON Net 1 |
| 16-May-08 | 8:26 | 28 | 2 | AC19 | BON029 | 72 | 56 45.73 N | 163 14.36 W | CAT | CAT | 5 jellyfish removed from 60 BON Net 1 |
| 16-May-08 | 10:02 | 29 | 1 | AF19 | NEU028 | 77 | 56 38.48 N | 163 38.34 W | Neu | QTowF | 8 jellyfish removed from Net 1 |
| 16-May-08 | 10:21 | 29 | 2 | AF19 | BON030 | 77 | 56 38.59 N | 163 37.67 W | 20Bon | QTowF | 2 jellyfish removed from 60 BON Net 1 |
| 16-May-08 | 10:21 | 29 | 2 | AF19 | BON030 | 77 | 56 38.59 N | 163 37.67 W | 60Bon | QTowF, RCountL | 2 jellyfish removed from 60 BON Net 1 |
| 16-May-08 | 10:21 | 29 | 2 | AF19 | BON030 | 77 | 56 38.59 N | 163 37.67 W | CAT | CAT | 2 jellyfish removed from 60 BON Net 1 |
| 16-May-08 | 11:57 | 30 | 1 | AF16 | | 84 | 56 25.56 N | 163 24.94 W | Neu | Discard | Lost codend |
| 16-May-08 | 12:12 | 30 | 2 | AF16 | NEU029 | 84 | 56 25.30 N | 163 24.78 W | Neu | QTowF | |
| 16-May-08 | 12:35 | 30 | 3 | AF16 | BON031 | 84 | 56 25.41 N | 163 24.83 W | 20Bon | QTowF | |
| 16-May-08 | 12:35 | 30 | 3 | AF16 | BON031 | 84 | 56 25.41 N | 163 24.83 W | 60Bon | QTowF, RCountL, RHBIO, SPEGGS | |
| 16-May-08 | 12:35 | 30 | 3 | AF16 | BON031 | 84 | 56 25.41 N | 163 24.83 W | CAT | CAT | |
| 16-May-08 | 15:36 | 31 | 1 | AF10 | NEU030 | 87 | 55 59.03 N | 162 59.13 W | Neu | QTowF | |
| 16-May-08 | 16:00 | 31 | 2 | AF10 | BON032 | 86 | 55 59.15 N | 162 58.98 W | 20Bon | QTowF | 1 large jellyfish removed removed from both 60BON net 1 and 20BON net 1 |
| 16-May-08 | 16:00 | 31 | 2 | AF10 | BON032 | 86 | 55 59.15 N | 162 58.98 W | 60Bon | QTowF, RCountL, RHBIO, SPEGGS | 1 large jellyfish removed from 60 BON net 1 and 20 BON net 1. |
| 16-May-08 | 16:00 | 31 | 2 | AF10 | BON032 | 86 | 55 59.15 N | 162 58.98 W | 60Bon | QTowF, RCountL, RHBIO, SPEGGS | 1 large jellyfish removed removed from both 60BON net 1 and 20BON net 1 |
| 16-May-08 | 16:00 | 31 | 2 | AF10 | BON032 | 86 | 55 59.15 N | 162 58.98 W | CAT | CAT | 1 large jellyfish removed removed from both 60BON net 1 and 20BON net 1 |
| 16-May-08 | 17:40 | 32 | 1 | AF7 | NEU031 | 61 | 55 45.86 N | 162 46.60 W | Neu | QTowF | |
| 16-May-08 | 18:02 | 32 | 2 | AF7 | BON033 | 61 | 55 45.75 N | 162 46.76 W | 20Bon | QTowF | |
| 16-May-08 | 18:02 | 32 | 2 | AF7 | BON033 | 61 | 55 45.75 N | 162 46.76 W | 60Bon | AMGEN, QTowF, RCountL, RHBIO | |
| 16-May-08 | 18:02 | 32 | 2 | AF7 | BON033 | 61 | 55 45.75 N | 162 46.76 W | CAT | CAT | |
| 16-May-08 | 18:39 | 32 | 3 | AF7 | SAT001 | 60 | 55 45.83 N | 162 46.36 W | SatBuoy | Deploy | Drifter #80088 |
| 16-May-08 | 19:47 | 33 | 1 | AF4 | NEU032 | 39 | 55 35.81 N | 162 36.43 W | Neu | QTowF | |
| 16-May-08 | 22:09 | 33 | 2 | AF4 | BON034 | 38 | 55 35.83 N | 162 36.72 W | 20Bon | QTowF | |
| 16-May-08 | 22:09 | 33 | 2 | AF4 | BON034 | 38 | 55 35.83 N | 162 36.72 W | 60Bon | QTowF, RCountL, RHBIO | |
| 16-May-08 | 22:09 | 33 | 2 | AF4 | BON034 | 38 | 55 35.83 N | 162 36.72 W | CAT | CAT | |

Cruise Summary For FOCI Cruise 3DY08 (DY0807)

| Date (GMT) | Time (GMT) | Station | Haul | FOCI Grid | Alternate Station | Depth (m) | Latitude | Longitude | Gear | SamplesCollected | HaulComments |
|------------|------------|---------|------|-----------|-------------------|-----------|------------|-------------|-------|------------------------------|--|
| 16-May-08 | 21:42 | 34 | 1 | AI4 | NEU033 | 42 | 55 28.11 N | 162 55.85 W | Neu | QTowF | |
| 16-May-08 | 22:02 | 34 | 2 | AI4 | BON035 | 42 | 55 28.14 N | 162 55.72 W | 20Bon | QTowF | |
| 16-May-08 | 22:02 | 34 | 2 | AI4 | BON035 | 42 | 55 28.14 N | 162 55.72 W | 60Bon | QTowF, RCountL | |
| 16-May-08 | 22:02 | 34 | 2 | AI4 | BON035 | 42 | 55 28.14 N | 162 55.72 W | CAT | CAT | |
| 16-May-08 | 23:22 | 35 | 1 | AI7 | NEU034 | 70 | 55 39.22 N | 163 10.52 W | Neu | QTowF | |
| 16-May-08 | 23:37 | 35 | 2 | AI7 | BON036 | 69 | 55 39.01 N | 163 09.82 W | 20Bon | QTowF | |
| 16-May-08 | 23:37 | 35 | 2 | AI7 | BON036 | 69 | 55 39.01 N | 163 09.82 W | 60Bon | QTowF, RCountL, RHBIO | |
| 16-May-08 | 23:37 | 35 | 2 | AI7 | BON036 | 69 | 55 39.01 N | 163 09.82 W | CAT | CAT | |
| 17-May-08 | 1:34 | 36 | 1 | AI10 | NEU035 | 91 | 55 51.81 N | 163 22.30 W | Neu | QTowF | |
| 17-May-08 | 1:58 | 36 | 2 | AI10 | BON037 | 91 | 55 51.98 N | 163 22.17 W | 20Bon | QTowF | |
| 17-May-08 | 1:58 | 36 | 2 | AI10 | BON037 | 91 | 55 51.98 N | 163 22.17 W | 60Bon | AMGEN, QTowF, RCountL, SPFCM | |
| 17-May-08 | 1:58 | 36 | 2 | AI10 | BON037 | 91 | 55 51.98 N | 163 22.17 W | CAT | CAT | |
| 17-May-08 | 2:25 | 36 | 3 | AI10 | CTD013 | 91 | 55 52.02 N | 163 22.18 W | CTDB | CTD, Fluor, PAR | BOTTLES TRIPPED AT WRONG DEPTHS MZ SAMPLES FOR STEVE PORTER LARVAL CONDITION STUDY |
| 17-May-08 | 2:52 | 36 | 4 | AI10 | CTD014 | 91 | 55 52.30 N | 163 22.01 W | CTDB | Chlor, CTD, Fluor, MZ, PAR | |
| 17-May-08 | 4:19 | 37 | 1 | AI13 | NEU036 | 91 | 56 05.03 N | 163 34.90 W | Neu | QTowF | |
| 17-May-08 | 4:38 | 37 | 2 | AI13 | BON038 | 91 | 56 05.05 N | 163 35.14 W | 20Bon | QTowF | "bongo at depth" was pushed a couple seconds late. Time above is correct. |
| 17-May-08 | 4:38 | 37 | 2 | AI13 | BON038 | 91 | 56 05.05 N | 163 35.14 W | 60Bon | AMGEN, QTowF, RCountL, RHBIO | "bongo at depth" was pushed a couple seconds late. Time above is correct. |
| 17-May-08 | 4:38 | 37 | 2 | AI13 | BON038 | 91 | 56 05.05 N | 163 35.14 W | CAT | CAT | "bongo at depth" was pushed a couple seconds late. Time above is correct. |
| 17-May-08 | 6:04 | 38 | 1 | AI16 | NEU037 | 87 | 56 18.05 N | 163 47.89 W | Neu | QTowF | |
| 17-May-08 | 6:26 | 38 | 2 | AI16 | BON039 | 87 | 56 18.21 N | 163 48.09 W | 20Bon | QTowF | |
| 17-May-08 | 6:26 | 38 | 2 | AI16 | BON039 | 87 | 56 18.21 N | 163 48.09 W | 60Bon | QTowF, RCountL | |
| 17-May-08 | 6:26 | 38 | 2 | AI16 | BON039 | 87 | 56 18.21 N | 163 48.09 W | CAT | CAT | |
| 17-May-08 | 7:59 | 39 | 1 | AL16 | NEU038 | 90 | 56 11.18 N | 164 10.77 W | Neu | QTowF | |
| 17-May-08 | 8:18 | 39 | 2 | AL16 | BON040 | 90 | 56 11.10 N | 164 11.11 W | 20Bon | QTowF | |
| 17-May-08 | 8:18 | 39 | 2 | AL16 | BON040 | 90 | 56 11.10 N | 164 11.11 W | 60Bon | QTowF, RCountL | |
| 17-May-08 | 8:18 | 39 | 2 | AL16 | BON040 | 90 | 56 11.10 N | 164 11.11 W | CAT | CAT | |
| 17-May-08 | 10:02 | 40 | 1 | AL13 | NEU039 | 92 | 55 57.88 N | 163 58.80 W | Neu | QTowF | |
| 17-May-08 | 10:31 | 40 | 2 | AL13 | BON041 | 92 | 55 57.87 N | 163 58.68 W | 20Bon | QTowF | |
| 17-May-08 | 10:31 | 40 | 2 | AL13 | BON041 | 92 | 55 57.87 N | 163 58.68 W | 60Bon | AMGEN, QTowF, RCountL | |
| 17-May-08 | 10:31 | 40 | 2 | AL13 | BON041 | 92 | 55 57.87 N | 163 58.68 W | CAT | CAT | |
| 17-May-08 | 12:09 | 41 | 1 | AL10 | NEU040 | 95 | 55 44.87 N | 163 45.82 W | Neu | QTowF | |
| 17-May-08 | 12:37 | 41 | 2 | AL10 | BON042 | 95 | 55 44.75 N | 163 45.70 W | 20Bon | QTowF | 1 large jellyfish removed from 60BON Net 1 |
| 17-May-08 | 12:37 | 41 | 2 | AL10 | BON042 | 95 | 55 44.75 N | 163 45.70 W | 60Bon | AMGEN, QTowF, RCountL | 1 large jellyfish removed from 60BON Net 1 |
| 17-May-08 | 12:37 | 41 | 2 | AL10 | BON042 | 95 | 55 44.75 N | 163 45.70 W | CAT | CAT | 1 large jellyfish removed from 60BON Net 1 |
| 17-May-08 | 14:07 | 42 | 1 | AL7 | NEU041 | 74 | 55 31.36 N | 163 33.25 W | Neu | QTowF | |
| 17-May-08 | 14:31 | 42 | 2 | AL7 | BON043 | 75 | 55 31.47 N | 163 33.14 W | 20Bon | QTowF | |

Cruise Summary For FOCI Cruise 3DY08 (DY0807)

| Date (GMT) | Time (GMT) | Station | Haul | FOCI Grid | Alternate Station | Depth (m) | Latitude | Longitude | Gear | SamplesCollected | HaulComments |
|------------|------------|---------|------|-----------|-------------------|-----------|------------|-------------|---------|----------------------------|---|
| 17-May-08 | 14:31 | 42 | 2 | AL7 | BON043 | 75 | 55 31.47 N | 163 33.14 W | 60Bon | AMGEN, QTowF, RCountL | |
| 17-May-08 | 14:31 | 42 | 2 | AL7 | BON043 | 75 | 55 31.47 N | 163 33.14 W | CAT | CAT | |
| 17-May-08 | 17:00 | 43 | 1 | AI7 | MOC001 | 67 | 55 38.84 N | 163 08.98 W | MOC1 | Discard | Electrical conductor in ship's termination broke during deployment. Unable to begin tow. Time and position dummied. |
| 17-May-08 | 19:09 | 43 | 2 | AI7 | CTD015 | 67 | 55 38.70 N | 163 09.65 W | CTDB | Chlor, CTD, Fluor, MZ, PAR | |
| 17-May-08 | 22:29 | 43 | 3 | AI7 | MOC002 | 67 | 55 38.30 N | 163 10.42 W | MOC1 | QTowF | Initial pressure on deck = 2 |
| 18-May-08 | 1:52 | 43 | 4 | AI7 | MOC003 | 68 | 55 38.84 N | 163 08.98 W | MOC1 | QTowF | |
| 18-May-08 | 4:14 | 43 | 5 | AI7 | CTD016 | 70 | 55 38.80 N | 163 09.32 W | CTDB | Chlor, CTD, Fluor, MZ, PAR | |
| 18-May-08 | 4:52 | 43 | 6 | AI7 | MOC004 | 69 | 55 39.87 N | 163 09.66 W | MOC1 | QTowF | |
| 18-May-08 | 6:49 | 43 | 7 | AI7 | BUOY002 | 67 | 55 38.45 N | 163 07.91 W | SatBuoy | Deploy | |
| 18-May-08 | 9:22 | 43 | 8 | AI7 | MOC005 | 67 | 55 38.46 N | 163 09.28 W | MOC1 | QTowF | 2 jellyfish removed from net 2. 1 jellyfish removed from net 4. Salinity sensor not working. |
| 18-May-08 | 11:49 | 43 | 9 | AI7 | CTD017 | 68 | 55 38.73 N | 163 09.62 W | CTDB | Discard | Bottle 7 did not open. Redo. |
| 18-May-08 | 12:07 | 43 | 10 | AI7 | CTD018 | 68 | 55 38.86 N | 163 09.38 W | CTDB | Chlor, CTD, Fluor, MZ, PAR | 2nd conductivity failed. Full moon. |
| 18-May-08 | 12:40 | 43 | 11 | AI7 | MOC006 | 68 | 55 38.72 N | 163 09.66 W | MOC1 | QTowF | Net 7-1 large jelly removed. Net 5-1 huge jelly removed. Salinity sensor not working. |
| 18-May-08 | 12:40 | 43 | 11 | AI7 | MOC006 | 68 | 55 38.72 N | 163 09.66 W | MOC1 | QTowF | Net 7-1 large jelly removed. Net 7-1 huge jelly removed. Salinity sensor not working. |
| 18-May-08 | 16:13 | 43 | 12 | AI7 | MOC007 | 68 | 55 38.63 N | 163 09.51 W | MOC1 | QTowF | Salinity sensor not working. After opening net 2; frame sank to 64 m; but did not hit bottom. |
| 18-May-08 | 20:11 | 43 | 13 | AI7 | CTD019 | 67 | 55 38.45 N | 163 09.48 W | CTDB | Chlor, CTD, Fluor, MZ, PAR | |
| 18-May-08 | 20:37 | 43 | 14 | AI7 | MOC008 | 67 | 55 38.65 N | 163 09.88 W | MOC1 | QTowF | Salinity sensor not working |
| 18-May-08 | 23:00 | 43 | 15 | AI7 | BON044 | 67 | 55 38.75 N | 163 09.92 W | 60Bon | SPFCM | Live tow to collect larvae for Steve Porter |
| 18-May-08 | 23:00 | 43 | 15 | AI7 | BON044 | 67 | 55 38.75 N | 163 09.92 W | 60Bon | SPFCM | Live tow to collect larvae for Steve Porter. Larvae collected from both 60bon net 1 and 60bon net 2. |
| 18-May-08 | 23:00 | 43 | 15 | AI7 | BON044 | 67 | 55 38.75 N | 163 09.92 W | CAT | CAT | |
| 19-May-08 | 0:08 | 43 | 16 | AI7 | BON045 | 67 | 55 38.19 N | 163 09.43 W | 60Bon | Discard | Live tow #2 to collect larvae for Steve Porter. Codend filled with jellyfish |
| 19-May-08 | 0:08 | 43 | 16 | AI7 | BON045 | 67 | 55 38.19 N | 163 09.43 W | CAT | CAT | |
| 19-May-08 | 0:21 | 43 | 17 | AI7 | BON046 | 65 | 55 37.88 N | 163 09.05 W | 60Bon | RHBIO, SPFCM | Live tow #3 to collect pollock larvae for steve porter and ron heinz. |
| 19-May-08 | 0:21 | 43 | 17 | AI7 | BON046 | 65 | 55 37.88 N | 163 09.05 W | 60Bon | RHBIO, SPFCM | Live tow #3 to collect pollock larvae for steve porter and ron heinz. Samples were taken from both 60bon cod ends. |
| 19-May-08 | 0:21 | 43 | 17 | AI7 | BON046 | 65 | 55 37.88 N | 163 09.05 W | CAT | CAT | Live tow #3 to collect pollock larvae for steve porter and ron heinz. |
| 19-May-08 | 3:05 | 44 | 1 | AL4 | NEU042 | 49 | 55 18.05 N | 163 20.31 W | Neu | QTowF | |
| 19-May-08 | 3:29 | 44 | 2 | AL4 | BON047 | 50 | 55 18.46 N | 163 20.08 W | 20Bon | QTowF | Flowmeters in air were blown for 30sec-1min before deployment. |

Cruise Summary For FOCI Cruise 3DY08 (DY0807)

| Date (GMT) | Time (GMT) | Station | Haul | FOCI Grid | Alternate Station | Depth (m) | Latitude | Longitude | Gear | Samples Collected | Haul Comments |
|------------|------------|---------|------|-----------|-------------------|-----------|------------|-------------|-------|------------------------------|---|
| 19-May-08 | 3:29 | 44 | 2 | AL4 | BON047 | 50 | 55 18.46 N | 163 20.08 W | 60Bon | AMGEN, QTowF, RCountL | Flowmeters in air were blown for 30sec-1min before deployment. |
| 19-May-08 | 3:29 | 44 | 2 | AL4 | BON047 | 50 | 55 18.46 N | 163 20.08 W | CAT | CAT | Flowmeters in air were blown for 30sec-1min before deployment. |
| 19-May-08 | 4:59 | 45 | 1 | AO4 | NEU043 | 48 | 55 11.24 N | 163 43.36 W | Neu | QTowF | |
| 19-May-08 | 5:19 | 45 | 2 | AO4 | BON048 | 47 | 55 11.13 N | 163 43.70 W | 20Bon | QTowF | |
| 19-May-08 | 5:19 | 45 | 2 | AO4 | BON048 | 47 | 55 11.13 N | 163 43.70 W | 60Bon | AMGEN, QTowF, RCountL | |
| 19-May-08 | 5:19 | 45 | 2 | AO4 | BON048 | 47 | 55 11.13 N | 163 43.70 W | CAT | CAT | |
| 19-May-08 | 6:38 | 46 | 1 | AO7 | NEU044 | 89 | 55 24.16 N | 163 56.07 W | Neu | QTowF | |
| 19-May-08 | 6:58 | 46 | 2 | AO7 | BON049 | 90 | 55 24.46 N | 163 56.40 W | 20Bon | QTowF | Jelly removed from 60bon net 1. |
| 19-May-08 | 6:58 | 46 | 2 | AO7 | BON049 | 90 | 55 24.46 N | 163 56.40 W | 60Bon | AMGEN, QTowF, RCountL, THCOD | Jelly removed from 60bon net 1. |
| 19-May-08 | 6:58 | 46 | 2 | AO7 | BON049 | 90 | 55 24.46 N | 163 56.40 W | CAT | CAT | Jelly removed from 60bon net 1. |
| 19-May-08 | 8:35 | 47 | 1 | AO10 | NEU045 | 95 | 55 37.72 N | 164 09.47 W | Neu | QTowF | |
| 19-May-08 | 8:54 | 47 | 2 | AO10 | BON050 | 96 | 55 37.23 N | 164 08.52 W | 20Bon | QTowF | Nets stayed at surface about 30 seconds on retrieval. 1 jellyfish removed from 60BON net 1. |
| 19-May-08 | 8:54 | 47 | 2 | AO10 | BON050 | 96 | 55 37.23 N | 164 08.52 W | 60Bon | QTowF, RCountL | Nets stayed at surface about 30 seconds at retrieval. 1 jellyfish removed from 60BON net 1. |
| 19-May-08 | 8:54 | 47 | 2 | AO10 | BON050 | 96 | 55 37.23 N | 164 08.52 W | 60Bon | QTowF, RCountL | Nets stayed at surface about 30 seconds on retrieval. 1 jellyfish removed from 60BON net 1. |
| 19-May-08 | 8:54 | 47 | 2 | AO10 | BON050 | 96 | 55 37.23 N | 164 08.52 W | CAT | CAT | Nets stayed at surface about 30 seconds on retrieval. 1 jellyfish removed from 60BON net 1. |
| 19-May-08 | 10:47 | 48 | 1 | AO13 | NEU046 | 95 | 55 50.97 N | 164 22.15 W | Neu | QTowF | |
| 19-May-08 | 11:05 | 48 | 2 | AO13 | BON051 | 95 | 55 55.51 N | 164 21.13 W | 20Bon | QTowF | |
| 19-May-08 | 11:05 | 48 | 2 | AO13 | BON051 | 95 | 55 55.51 N | 164 21.13 W | 60Bon | AMGEN, QTowF, RCountL, THCOD | |
| 19-May-08 | 11:05 | 48 | 2 | AO13 | BON051 | 95 | 55 55.51 N | 164 21.13 W | CAT | CAT | |
| 19-May-08 | 12:38 | 49 | 1 | AR13 | NEU047 | 98 | 55 43.72 N | 164 44.97 W | Neu | QTowF | |
| 19-May-08 | 13:04 | 49 | 2 | AR13 | BON052 | 98 | 55 43.57 N | 164 44.90 W | 20Bon | QTowF | |
| 19-May-08 | 13:04 | 49 | 2 | AR13 | BON052 | 98 | 55 43.57 N | 164 44.90 W | 60Bon | QTowF, RCountL | |
| 19-May-08 | 13:04 | 49 | 2 | AR13 | BON052 | 98 | 55 43.57 N | 164 44.90 W | CAT | CAT | |
| 19-May-08 | 14:29 | 50 | 1 | AR10 | NEU048 | 101 | 55 30.50 N | 164 32.32 W | Neu | QTowF | |
| 19-May-08 | 14:54 | 50 | 2 | AR10 | BON053 | 102 | 55 30.41 N | 164 32.18 W | 20Bon | QTowF | Flowmeters on 60BON were closer in no. of revs this time; probably due to less algae. |
| 19-May-08 | 14:54 | 50 | 2 | AR10 | BON053 | 102 | 55 30.41 N | 164 32.18 W | 60Bon | QTowF, RCountL, THCOD | Flowmeters on 60BON were closer in no. of revs this time; probably due to less algae. |
| 19-May-08 | 14:54 | 50 | 2 | AR10 | BON053 | 102 | 55 30.41 N | 164 32.18 W | 60Bon | QTowF, RCountL, THCOD | Flowmeters on 60BON were closer in no. of revs this time; probably due to less algae. |
| 19-May-08 | 14:54 | 50 | 2 | AR10 | BON053 | 102 | 55 30.41 N | 164 32.18 W | CAT | CAT | Flowmeters on 60BON were closer in no. of revs this time; probably due to less algae. |
| 19-May-08 | 16:19 | 51 | 1 | AR7 | NEU049 | 97 | 55 17.18 N | 164 19.75 W | Neu | QTowF | |

Cruise Summary For FOCI Cruise 3DY08 (DY0807)

| Date (GMT) | Time (GMT) | Station | Haul | FOCI Grid | Alternate Station | Depth (m) | Latitude | Longitude | Gear | Samples Collected | Haul Comments |
|------------|------------|---------|------|-----------|-------------------|-----------|------------|-------------|-------|------------------------------|--|
| 19-May-08 | 16:46 | 51 | 2 | AR7 | BON054 | 97 | 55 17.14 N | 164 19.75 W | 20Bon | QTowF | |
| 19-May-08 | 16:46 | 51 | 2 | AR7 | BON054 | 97 | 55 17.14 N | 164 19.75 W | 60Bon | QTowF, RCountL | |
| 19-May-08 | 16:46 | 51 | 2 | AR7 | BON054 | 97 | 55 17.14 N | 164 19.75 W | CAT | CAT | |
| 19-May-08 | 18:31 | 52 | 1 | AR4 | NEU050 | 46 | 55 05.97 N | 164 09.43 W | Neu | QTowF | |
| 19-May-08 | 18:48 | 52 | 2 | AR4 | BON055 | 47 | 55 05.67 N | 164 09.40 W | 20Bon | QTowF | |
| 19-May-08 | 18:48 | 52 | 2 | AR4 | BON055 | 47 | 55 05.67 N | 164 09.40 W | 60Bon | AMGEN, QTowF, RCountL, THCOD | |
| 19-May-08 | 18:48 | 52 | 2 | AR4 | BON055 | 47 | 55 05.67 N | 164 09.40 W | CAT | CAT | |
| 19-May-08 | 20:12 | 53 | 1 | AU4 | NEU051 | 52 | 54 57.24 N | 164 32.38 W | Neu | QTowF | |
| 19-May-08 | 20:22 | 53 | 2 | AU4 | BON056 | 52 | 54 57.24 N | 164 32.38 W | 20Bon | Discard | FAILED TOW. SEACAT DID NOT COMMUNICATE AND TOW ABORTED. TIME;LAT LON; DEPTH ARE APPROXIMATE. REDO ON NEXT TOW. |
| 19-May-08 | 20:22 | 53 | 2 | AU4 | BON056 | 52 | 54 57.24 N | 164 32.38 W | 60Bon | Discard | FAILED TOW. SEACAT DID NOT COMMUNICATE AND TOW ABORTED. TIME;LAT LON; DEPTH ARE APPROXIMATE. REDO ON NEXT TOW. |
| 19-May-08 | 20:22 | 53 | 2 | AU4 | BON056 | 52 | 54 57.24 N | 164 32.38 W | CAT | CAT | FAILED TOW. SEACAT DID NOT COMMUNICATE AND TOW ABORTED. TIME;LAT LON; DEPTH ARE APPROXIMATE. REDO ON NEXT TOW. |
| 19-May-08 | 20:50 | 53 | 3 | AU4 | BON057 | 53 | 54 57.24 N | 164 32.38 W | 20Bon | Discard | SEACAT NOT COMMUNICATING AGAIN. ABORTED TOW. REDO ON NEXT HAUL. TIME;LAT;LON; AND MAX DEPTH ARE APPROXIMATE. |
| 19-May-08 | 20:50 | 53 | 3 | AU4 | BON057 | 53 | 54 57.24 N | 164 32.38 W | 60Bon | Discard | SEACAT NOT COMMUNICATING AGAIN. ABORTED TOW. REDO ON NEXT HAUL. TIME;LAT;LON; AND MAX DEPTH ARE APPROXIMATE. |
| 19-May-08 | 20:50 | 53 | 3 | AU4 | BON057 | 53 | 54 57.24 N | 164 32.38 W | CAT | CAT | SEACAT NOT COMMUNICATING AGAIN. ABORTED TOW. REDO ON NEXT HAUL. TIME;LAT;LON; AND MAX DEPTH ARE APPROXIMATE. |
| 19-May-08 | 21:26 | 53 | 4 | AU4 | BON058 | 51 | 54 56.81 N | 164 32.90 W | 20Bon | QTowF | |
| 19-May-08 | 21:26 | 53 | 4 | AU4 | BON058 | 51 | 54 56.81 N | 164 32.90 W | 60Bon | QTowF, RCountL | |
| 19-May-08 | 21:26 | 53 | 4 | AU4 | BON058 | 51 | 54 56.81 N | 164 32.90 W | CAT | CAT | |
| 19-May-08 | 22:46 | 54 | 1 | AU7 | NEU052 | 101 | 55 09.54 N | 164 43.03 W | Neu | QTowF | |
| 19-May-08 | 23:02 | 54 | 2 | AU7 | BON059 | 101 | 55 09.93 N | 164 42.66 W | 20Bon | QTowF | |
| 19-May-08 | 23:02 | 54 | 2 | AU7 | BON059 | 101 | 55 09.93 N | 164 42.66 W | 60Bon | AMGEN, QTowF, RCountL, THCOD | |
| 19-May-08 | 23:02 | 54 | 2 | AU7 | BON059 | 101 | 55 09.93 N | 164 42.66 W | CAT | CAT | |
| 20-May-08 | 0:37 | 55 | 1 | AU10 | NEU053 | 107 | 55 23.24 N | 164 55.78 W | Neu | QTowF | Flow counts seem high, but we checked and they seem correct. |
| 20-May-08 | 1:03 | 55 | 2 | AU10 | BON060 | 107 | 55 23.19 N | 164 55.52 W | 20Bon | QTowF | |
| 20-May-08 | 1:03 | 55 | 2 | AU10 | BON060 | 107 | 55 23.19 N | 164 55.52 W | 60Bon | AMGEN, QTowF, RCountL, THCOD | |
| 20-May-08 | 1:03 | 55 | 2 | AU10 | BON060 | 107 | 55 23.19 N | 164 55.52 W | CAT | CAT | |

Cruise Summary For FOCI Cruise 3DY08 (DY0807)

| Date (GMT) | Time (GMT) | Station | Haul | FOCI Grid | Alternate Station | Depth (m) | Latitude | Longitude | Gear | SamplesCollected | HaulComments |
|------------|------------|---------|------|-----------|-------------------|-----------|------------|-------------|---------|-------------------------------------|---|
| 20-May-08 | 2:34 | 56 | 1 | AU13 | NEU054 | 110 | 55 36.28 N | 165 08.48 W | Neu | QTowF | |
| 20-May-08 | 2:51 | 56 | 2 | AU13 | BON061 | 109 | 55 36.68 N | 165 07.31 W | 20Bon | QTowF | |
| 20-May-08 | 2:51 | 56 | 2 | AU13 | BON061 | 109 | 55 36.68 N | 165 07.31 W | 60Bon | QTowF, RCountL, THCOD | |
| 20-May-08 | 2:51 | 56 | 2 | AU13 | BON061 | 109 | 55 36.68 N | 165 07.31 W | CAT | CAT | |
| 20-May-08 | 4:33 | 57 | 1 | AX13 | NEU055 | 116 | 55 29.28 N | 165 31.02 W | Neu | QTowF | ROUGH SEAS |
| 20-May-08 | 5:01 | 57 | 2 | AX13 | BON062 | 116 | 55 29.22 N | 165 30.80 W | 20Bon | QTowF | |
| 20-May-08 | 5:01 | 57 | 2 | AX13 | BON062 | 116 | 55 29.22 N | 165 30.80 W | 60Bon | AMGEN, QTowF, RCountL, THCOD | |
| 20-May-08 | 5:01 | 57 | 2 | AX13 | BON062 | 116 | 55 29.22 N | 165 30.80 W | CAT | CAT | |
| 20-May-08 | 6:36 | 58 | 1 | AX10 | NEU056 | 115 | 55 15.91 N | 165 18.39 W | Neu | QTowF | |
| 20-May-08 | 7:03 | 58 | 2 | AX10 | BON063 | 115 | 55 16.05 N | 165 18.15 W | 20Bon | QTowF | |
| 20-May-08 | 7:03 | 58 | 2 | AX10 | BON063 | 115 | 55 16.05 N | 165 18.15 W | 60Bon | AMGEN, QTowF, RCountL, THCOD | |
| 20-May-08 | 7:03 | 58 | 2 | AX10 | BON063 | 115 | 55 16.05 N | 165 18.15 W | CAT | CAT | |
| 20-May-08 | 8:40 | 59 | 1 | AX7 | NEU057 | 113 | 55 02.57 N | 165 06.08 W | Neu | QTowF | Rough seas; gear hopping more than usual. |
| 20-May-08 | 9:01 | 59 | 2 | AX7 | BON064 | 113 | 55 03.33 N | 165 05.02 W | 20Bon | QTowF | Rough seas. |
| 20-May-08 | 9:01 | 59 | 2 | AX7 | BON064 | 113 | 55 03.33 N | 165 05.02 W | 60Bon | AMGEN, ISGEN, QTowF, RCountL, THCOD | Rough seas. |
| 20-May-08 | 9:01 | 59 | 2 | AX7 | BON064 | 113 | 55 03.33 N | 165 05.02 W | CAT | CAT | Rough seas. |
| 20-May-08 | 9:23 | 59 | 3 | AX4 | BUOY03 | 111 | 55 04.05 N | 165 04.80 W | SatBuoy | Deploy | Deploy SatBuoy 80090. |
| 20-May-08 | 11:26 | 60 | 1 | BA7 | NEU058 | 126 | 54 55.46 N | 165 29.14 W | Neu | QTowF | Rough seas. |
| 20-May-08 | 11:58 | 60 | 2 | BA7 | BON065 | 127 | 54 55.71 N | 165 28.79 W | 20Bon | QTowF | Rough seas. Flowmeters spinning in wind. 3 dips in upcast due to changes in speed over ground because of wind and waves. |
| 20-May-08 | 11:58 | 60 | 2 | BA7 | BON065 | 127 | 54 55.71 N | 165 28.79 W | 60Bon | AMGEN, QTowF, RCountL | Rough seas. Flowmeters spinning in wind. 3 dips in upcast due to changes in speed over ground because of wind and waves. |
| 20-May-08 | 11:58 | 60 | 2 | BA7 | BON065 | 127 | 54 55.71 N | 165 28.79 W | CAT | CAT | Rough seas. Flowmeters spinning in wind. 3 dips in upcast due to changes in speed over ground because of wind and waves. |
| 20-May-08 | 13:40 | 61 | 1 | BA10 | NEU059 | 124 | 55 08.68 N | 165 41.47 W | Neu | QTowF | Rough seas. |
| 20-May-08 | 14:07 | 61 | 2 | BA10 | BON066 | 124 | 55 08.84 N | 165 41.18 W | 20Bon | QTowF | Rough seas. Flowmeters spinning in the wind. Dips of net during upcast due to changes in ship's speed. 60Bon Net 1 codend bottom blew out. Will redo. |
| 20-May-08 | 14:07 | 61 | 2 | BA10 | BON066 | 124 | 55 08.84 N | 165 41.18 W | 60Bon | AMGEN, ISGEN, RCountL, THCOD | Rough seas. Flowmeters spinning in the wind. Dips of net during upcast due to changes in ship's speed. 60Bon Net 1 codend bottom blew out. Will redo. |
| 20-May-08 | 14:07 | 61 | 2 | BA10 | BON066 | 124 | 55 08.84 N | 165 41.18 W | CAT | CAT | Rough seas. Flowmeters spinning in the wind. Dips of net during upcast due to changes in ship's speed. 60Bon Net 1 codend bottom blew out. Will redo. |
| 20-May-08 | 14:48 | 61 | 3 | BA10 | BON067 | 124 | 55 08.76 N | 165 41.26 W | 20Bon | QTowF | Rough seas. Dips in upcast caused by changing ship speed. |

Cruise Summary For FOCI Cruise 3DY08 (DY0807)

| Date (GMT) | Time (GMT) | Station | Haul | FOCI Grid | Alternate Station | Depth (m) | Latitude | Longitude | Gear | Samples Collected | Haul Comments |
|---|------------|---------|------|-----------|-------------------|-----------|------------|-------------|-------|------------------------------|---|
| 20-May-08 | 14:48 | 61 | 3 | BA10 | BON067 | 124 | 55 08.76 N | 165 41.26 W | 60Bon | QTowF, RCountL, THCOD | Rough seas. Dips in upcast caused by changing ship speed. |
| 20-May-08 | 14:48 | 61 | 3 | BA10 | BON067 | 124 | 55 08.76 N | 165 41.26 W | CAT | CAT | Rough seas. Dips in upcast caused by changing ship speed. |
| 20-May-08 | 16:41 | 62 | 1 | BD10 | NEU060 | 137 | 55 01.43 N | 166 04.58 W | Neu | QTowF | Rough seas. |
| 20-May-08 | 17:04 | 62 | 2 | BD10 | BON068 | 137 | 55 02.17 N | 166 03.77 W | 20Bon | QTowF | rough seas. Dip in upcast do to slowing ship speed. |
| 20-May-08 | 17:04 | 62 | 2 | BD10 | BON068 | 137 | 55 02.17 N | 166 03.77 W | 60Bon | AMGEN, QTowF, RCountL | rough seas. Dip in upcast do to slowing ship speed. |
| 20-May-08 | 17:04 | 62 | 2 | BD10 | BON068 | 137 | 55 02.17 N | 166 03.77 W | CAT | CAT | rough seas. Dip in upcast do to slowing ship speed. |
| 20-May-08 | 18:56 | 63 | 1 | BD7 | NEU061 | 168 | 54 48.31 N | 165 51.88 W | Neu | QTowF | |
| 20-May-08 | 19:21 | 63 | 2 | BD7 | BON069 | 166 | 54 48.58 N | 165 51.77 W | 20Bon | Discard | ROUGH SEAS. FLOWMETERS SPINNING IN WIND. 20 BON NET FRAME FELL OFF OF PRIMARY MOUNT. DISCARD BOTH 20 BON NETS. |
| 20-May-08 | 19:21 | 63 | 2 | BD7 | BON069 | 166 | 54 48.58 N | 165 51.77 W | 60Bon | CW, QTowF, RCountL | ROUGH SEAS. FLOWMETERS SPINNING IN WIND. |
| 20-May-08 | 19:21 | 63 | 2 | BD7 | BON069 | 166 | 54 48.58 N | 165 51.77 W | CAT | CAT | ROUGH SEAS. FLOWMETERS SPINNING IN WIND. 20 BON NET FRAME FELL OFF OF PRIMARY MOUNT. DISCARD BOTH 20 BON NETS. |
| 20-May-08 | 21:03 | 64 | 1 | BG7 | NEU062 | 292 | 54 41.17 N | 166 15.55 W | Neu | QTowF | ROUGH SEAS. |
| 20-May-08 | 22:47 | 64 | 2 | BG7 | BON070 | 269 | 54 42.52 N | 166 14.03 W | 20Bon | QTowF | THERE WAS A FIRST ATTEMPT TO DEPLOY THIS BONGO BUT SEACAT WASN'T TURNED ON. DEPLOYED AGAIN WITH NEW FLOW NUMBERS AFTER RINSING NETS. DID NOT COUNT ERROR TOW AS A FAILED TOW. |
| 20-May-08 | 22:47 | 64 | 2 | BG7 | BON070 | 269 | 54 42.52 N | 166 14.03 W | 60Bon | AMGEN, ISGEN, QTowF, RCountL | THERE WAS A FIRST ATTEMPT TO DEPLOY THIS BONGO BUT SEACAT WASN'T TURNED ON. DEPLOYED AGAIN WITH NEW FLOW NUMBERS AFTER RINSING NETS. DID NOT COUNT ERROR TOW AS A FAILED TOW. |
| 20-May-08 | 22:47 | 64 | 2 | BG7 | BON070 | 269 | 54 42.52 N | 166 14.03 W | CAT | CAT | THERE WAS A FIRST ATTEMPT TO DEPLOY THIS BONGO BUT SEACAT WASN'T TURNED ON. DEPLOYED AGAIN WITH NEW FLOW NUMBERS AFTER RINSING NETS. DID NOT COUNT ERROR TOW AS A FAILED TOW. |
| 20-May-08 | 23:39 | 65 | 1 | BG10 | NEU063 | 155 | 54 53.75 N | 166 27.53 W | Neu | QTowF | ROUGH SEAS. |
| 21-May-08 | 0:00 | 65 | 2 | BG10 | BON071 | 153 | 54 54.65 N | 166 26.61 W | 20Bon | QTowF | STOPPED SHORT OF THE BOTTOM |
| BECAUSE | | | | | | | | | | | |
| WAS | | | | | | | | | | | |
| ANGLE WAS HIGH AND SO MUCH WIRE | | | | | | | | | | | |
| OUT THAT THERE WAS A DANGER OF HITTING THE BOTTOM. NET WENT UNDER SHIP. ROUGH SEAS. | | | | | | | | | | | |

Cruise Summary For FOCI Cruise 3DY08 (DY0807)

| Date (GMT) | Time (GMT) | Station | Haul | FOCI Grid | Alternate Station | Depth (m) | Latitude | Longitude | Gear | SamplesCollected | HaulComments |
|------------|------------|---------|------|-----------|-------------------|-----------|------------|-------------|-------|---|---|
| 21-May-08 | 0:00 | 65 | 2 | BG10 | BON071 | 153 | 54 54.65 N | 166 26.61 W | 60Bon | AMGEN, CW, ISGEN, QTowF, RCountL, THCOD | STOPPED SHORT OF THE BOTTOM ANGLE WAS HIGH AND SO MUCH WIRE |
| WAS | | | | | | | | | | | |
| 21-May-08 | 0:00 | 65 | 2 | BG10 | BON071 | 153 | 54 54.65 N | 166 26.61 W | CAT | CAT | OUT THAT THERE WAS A DANGER OF HITTING THE BOTTOM. NET WENT UNDER SHIP. ROUGH SEAS. STOPPED SHORT OF THE BOTTOM ANGLE WAS HIGH AND SO MUCH WIRE |
| WAS | | | | | | | | | | | |
| 21-May-08 | 1:59 | 66 | 1 | BJ10 | NEU064 | 292 | 54 47.07 N | 166 49.93 W | Neu | QTowF | |
| 21-May-08 | 2:24 | 66 | 2 | BJ10 | BON072 | 273 | 54 48.52 N | 166 49.63 W | 20Bon | QTowF | |
| 21-May-08 | 2:24 | 66 | 2 | BJ10 | BON072 | 273 | 54 48.52 N | 166 49.63 W | 60Bon | AMGEN, CW, ISGEN, QTowF, RCountL, THCOD | |
| 21-May-08 | 2:24 | 66 | 2 | BJ10 | BON072 | 273 | 54 48.52 N | 166 49.63 W | CAT | CAT | |
| 21-May-08 | 4:44 | 67 | 1 | BJ7 | CTD020 | 418 | 54 34.36 N | 167 37.34 W | CTDB | CTD | COLLECTED WATER AT 129 METERS FOR STEVER PORTER EGG INCUBATION NEXT CRUISE. |
| 21-May-08 | 5:03 | 67 | 2 | BJ7 | NEU065 | 421 | 54 33.95 N | 166 37.01 W | Neu | QTowF | |
| 21-May-08 | 5:39 | 67 | 3 | BJ7 | BON073 | 424 | 54 34.08 N | 166 37.10 W | 20Bon | QTowF | |
| 21-May-08 | 5:39 | 67 | 3 | BJ7 | BON073 | 424 | 54 34.08 N | 166 37.10 W | 60Bon | CW, ISGEN, QTowF, RCountL | |
| 21-May-08 | 5:39 | 67 | 3 | BJ7 | BON073 | 424 | 54 34.08 N | 166 37.10 W | CAT | CAT | |
| 21-May-08 | 7:19 | 68 | 1 | | BON074 | 482 | 54 28.96 N | 166 53.71 W | 20Bon | QTowF | |
| 21-May-08 | 7:19 | 68 | 1 | | BON074 | 482 | 54 28.96 N | 166 53.71 W | 60Bon | AMGEN, CW, ISGEN, QTowF, RCountL | |
| 21-May-08 | 7:19 | 68 | 1 | | BON074 | 482 | 54 28.96 N | 166 53.71 W | CAT | CAT | |