

CRUISE REPORT

Cruise Number: DY10-04

FOCI Number: 2DY10

Ship:

FSV *Oscar Dyson*

Area of Operations:

Eastern Bering Sea: Alaska Peninsula, Bristol Bay, and Pribilof Islands

Itinerary:

Date depart / port: May 5, 2010 / Dutch Harbor, AK

Date arrive / port: May 18, 2010 / Dutch Harbor, AK

Participating organizations:

NOAA - Alaska Fisheries Science Center (AFSC)

NOAA - Pacific Marine Environmental Laboratory (PMEL)

USF&WS

NOAA Teacher at Sea Program

Chief Scientist:

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M / AFSC

Personnel:

Debbie Blood

F / AFSC

Dan Cooper

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Lisa DeForest

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M / PMEL (disembarked 5/13/2010)

Brian Hoover

M / USF&WS

Stacey Remple

F / AFSC

Kathy Schroeder

F / NOAA Teacher At Sea

Matt Wilson

M / AFSC

Cruise Objectives:

Examine the interactions among climate, weather, and the recruitment of fishes in the eastern Bering Sea. We will conduct an ichthyoplankton and zooplankton survey in the waters from the Pribilof Islands in the north to the Aleutian Islands in the south and along the Alaska Peninsula east to Bristol Bay. This work is needed to describe larval fish and zooplankton assemblages and determine how physical and biological factors affect the transport and survival of fish larvae. The cruise is a 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 are: arrowtooth flounder (*Atheresthes stomias*), Pacific cod (*Gadus macrocephalus*) and walleye pollock (*Theragra chalcogramma*). We will determine 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 will be attempted at sea using molecular techniques.

Summary of Operations:

Operation	Tows
20cm bongo (20Bon)	57
60cm bongo (60Bon)	57
CalCOFI vertical egg tow net (CalVET)	8
Seabird SeaCAT CTD (CAT)	58
CTD with bottle samples (CTDB)	12
Neuston (Neu)	57
Deployment of satellite buoy (SatBuoy)	1
Transect (Trans)	3

Samples Collected

	Tows	Number
misc species in EtOH (AMGEN)	17	89
SeaBird SeaCat CTD (CAT)	58	
Extracted chlorophyll (Chlor)	12	71
SeaBird CTD (CTD)	12	
Deployment of buoy or mooring (Deploy)	1	1
Stimulated fluorescence collected during CTD casts (Fluor)	12	
Any other sample type (must explain in haul comments) (Other)	2	2
Photosynthetically Active Radiation data collected during CTD casts (PAR)	12	
Quantitative tow preserved in formalin (QTowF)	242	253
Quantitative tow preserved in Stockard's (QTowS)	1	1
Rough count of pollock larvae (RCountL)	51	517
Ron Heinz samples (RH)	22	226
pollock measured and frozen (SPFCM)	8	31

Summary of Cruise:

Narrative:

The cruise departed one day early (2130 hrs, 5 May) because the previous cruise encountered extensive sea ice and was unable to deploy a surface mooring at site M2. One sea day was transferred from DY10-03 to this cruise to accomplish the mooring deployment. We began the cruise with a bongo and neuston survey of the waters overlying Bering Canyon, looking for arrowtooth and Kamchatka flounder larvae. Genetic identification of the larvae was accomplished at sea using bar coding techniques. We then worked our way east, including samples in Unimak Pass. Continuing east along the Alaska Peninsula we surveyed the waters for the larvae of Pacific cod and Walleye pollock. Cod were found in very low numbers, but we first hit a large patch of pollock eggs on our 7 line between stations AR7 and AO7. A satellite-tracked drifter was deployed in this patch. We found moderate numbers of pollock larvae (most newly hatched) within this area between the AO and AL 10 to 16 lines. CTD transects were occupied in Unimak Pass and on the BA and AF lines to estimate volume transport. After completing our sampling grid along the Alaska Peninsula we went to the M2 mooring site to deploy a surface toroid buoy that allows real time data transmission of a suite of subsurface instruments at that location. Bongo, neuston, CalVET and CTD samples were taken at stations around the mooring and at the mooring site. We then deadheaded to St. Paul Island so that Wm. Floering could disembark and join another mooring deployment cruise. Extensive sea ice was encountered along the way, forcing us to take a longer route and arriving much later than planned. The scientist was successfully transferred to St. Paul in time for his flight.

A neuston and bongo survey was then begun around the Pribilof Islands. The survey also used the CUFES (Continuous Underway Fish Egg Sampler) system between stations to determine the fraction of fish eggs and larvae in the surface waters. This was our first full use of this CUFES system on board the FSV Oscar Dyson. The water up on the shelf around the Pribilof Islands was very cold (-1.0 to 2.0 °C) and we were unable to locate eggs or larval Pollock in the area. We also did not find large numbers of *Atheresthes* spp. larvae over the Outer Shelf, continental slope, or Bering Canyon, as expected.

The cruise concluded with surveys for larval fish over the outer shelf and continental slope between the Pribilof Islands and the Aleutian Island chain.

Seabird observations were conducted from the bridge of the vessel while transiting between stations. A trained observer surveyed seabirds from the port side, and recorded those birds sighted within 300 meters and within a 90° arc. All birds and marine mammals sighted on the water were recorded, while flying birds were counted during timed intervals in a "snapshot" fashion. Environmental criteria such as sea state, glare, ice cover and cloud cover were continually recorded while

surveying, and surveys were halted during heavy fog or snow.

Relatively few seabirds were observed during the first half of the cruise along the Aleutian peninsula and above the shallow inner shelf of Bristol Bay. Small aggregations of Short-tailed Shearwaters, Murres (*Uria* spp), and Cassin's Auklets (*Ptychoramphus aleuticus*) were the most common species observed in the area. During the second half of the cruise, high densities of Thick-billed Murres (*Uria lomvia*), Least Auklets (*Aethia pusilla*), and kittiwakes (*Rissa* spp) were observed in near-shore environments around St. Paul and St. George, and near the 300m shelf break west of the Pribilofs. Gray Whales and a Northern Fur Seal were observed in ~25m water near St. Paul, and several pods of Killer Whales (*Orcinus orca*) were sighted at various times throughout the cruise.

There were few unusual bird sightings or incidents. Lapland Longspurs and a Short-eared Owl rested on the vessel at various times, and one Longspur died and was collected for the USFWS. Laysans Albatross (*Phoebastria immutabilis*) were infrequently yet consistently sighted along the shelf break east of the Pribilof Islands. During night operations on May 15th, a blizzard hit and many Crested Auklets (*Aethia cristatella*) and Fork-tailed Storm Petrels (*Oceanodroma furcata*) landed on the boat decks. These birds appeared disoriented by the high winds and boat lights, but none were found the following morning when the storm had abated.

Special Projects

Samples were collected throughout the cruise for several special projects: Walleye pollock larval condition and feeding (S. Porter, NOAA/AFSC), Walleye pollock and Pacific cod condition indices (R. Heintz, NOAA/AFSC), and molecular identification of fish larvae (A. Matarese, NOAA/AFSC).

Days Lost to Weather:

Days were not lost to weather, however operations were strongly impacted by the late retreat of sea ice in the operations area.

Days Lost to Equipment Failure:

0.5 hrs due to problems with the throttle linkage on the rescue boat.

Recommendations:

None

Acknowledgments:

The scientific party would like to acknowledge the hard work and support of the officers and crew of the FSV *Oscar Dyson*. In particular, the Deck and Survey department (Kathy Hough and Robert Spina) helped us quickly set up and secure our equipment when the departure date was advanced to add deployment of M2. We thank ET Vince Welton for installing the new CUFES flow meter controller. Chief Steward Rick Hargis and Second Cook Floyd Pounds made our time aboard enjoyable with tasty meals. Acting FOO LTJG Nathan Witherly helped to coordinate the ships efforts to make our time aboard production.

Attachments:

Table 1. Cruise Summary

Figure 1. Station Map

Cruise Summary For FOCI Cruise 2DY10 (DY10-04)

Date (GMT)	Time (GMT)	Station	Hau	FOCI Grid	Alternate Station	Depth (m)	Latitude	Longitude	Gear	SamplesCollected	HaulComments
06-May-10	8:08	1	1	BM4	NEU001	1246	54 13.95 N	166 47.21 W	Neu	QTowF	
06-May-10	8:52	1	2	BM4	BON001	1243	54 14.03 N	166 47.34 W	20Bon	QTowF	
06-May-10	8:52	1	2	BM4	BON001	1243	54 14.03 N	166 47.34 W	60Bon	AMGEN, QTowF, RCountL, RH	333 mesh net picked for ichthyoplankton and then preserved in formalin for entire cruise.
06-May-10	8:52	1	2	BM4	BON001	1243	54 14.03 N	166 47.34 W	CAT	CAT	333 mesh net picked for ichthyoplankton and then preserved in formalin for entire cruise.
06-May-10	11:10	2	1	BM7	NEU002	503	54 27.05 N	167 00.48 W	Neu	QTowF	
06-May-10	11:44	2	2	BM7	BON002	505	54 27.03 N	167 00.50 W	20Bon	QTowF	
06-May-10	11:44	2	2	BM7	BON002	505	54 27.03 N	167 00.50 W	60Bon	AMGEN, QTowF, RCountL, SPFCM	
06-May-10	11:44	2	2	BM7	BON002	505	54 27.03 N	167 00.50 W	CAT	CAT	
06-May-10	13:31	3	1	BM10	NEU003	455	54 40.40 N	167 12.45 W	Neu	QTowF	
06-May-10	14:11	3	2	BM10	BON003	454	54 40.37 N	167 12.33 W	20Bon	QTowF	
06-May-10	14:11	3	2	BM10	BON003	454	54 40.37 N	167 12.33 W	60Bon	AMGEN, QTowF, RCountL	
06-May-10	14:11	3	2	BM10	BON003	454	54 40.37 N	167 12.33 W	CAT	CAT	
06-May-10	16:04	4	1	BM13	NEU004	434	54 53.09 N	167 25.11 W	Neu	QTowF	
06-May-10	16:38	4	2	BM13	BON004	429	54 53.42 N	167 25.31 W	20Bon	QTowF	
06-May-10	16:38	4	2	BM13	BON004	429	54 53.42 N	167 25.31 W	60Bon	AMGEN, QTowF, RCountL	
06-May-10	16:38	4	2	BM13	BON004	429	54 53.42 N	167 25.31 W	CAT	CAT	
06-May-10	18:31	5	1	BJ13	NEU005	161	55 00.20 N	167 02.52 W	Neu	QTowF	
06-May-10	18:59	5	2	BJ13	BON005	160	55 00.39 N	167 02.31 W	20Bon	QTowF	
06-May-10	18:59	5	2	BJ13	BON005	160	55 00.39 N	167 02.31 W	60Bon	QTowF, RCountL	
06-May-10	18:59	5	2	BJ13	BON005	160	55 00.39 N	167 02.31 W	CAT	CAT	
06-May-10	21:20	6	1	BJ10	NEU006	294	54 47.01 N	166 49.68 W	Neu	QTowF	
06-May-10	21:57	6	2	BJ10	BON006	290	54 47.50 N	166 49.95 W	20Bon	QTowF	
06-May-10	21:57	6	2	BJ10	BON006	290	54 47.50 N	166 49.95 W	60Bon	AMGEN, QTowF, RCountL, SPFCM	
06-May-10	21:57	6	2	BJ10	BON006	290	54 47.50 N	166 49.95 W	60Bon	AMGEN, QTowF, RCountL, SPFCM	Walleye pollock removed for Steve Porter
06-May-10	21:57	6	2	BJ10	BON006	290	54 47.50 N	166 49.95 W	CAT	CAT	
06-May-10	23:57	7	1	BJ7	NEU007	425	54 33.78 N	166 37.07 W	Neu	QTowF	
07-May-10	0:31	7	2	BJ7	BON007	420	54 34.18 N	166 37.24 W	20Bon	QTowF	
07-May-10	0:31	7	2	BJ7	BON007	420	54 34.18 N	166 37.24 W	60Bon	AMGEN, QTowF, RCountL	
07-May-10	0:31	7	2	BJ7	BON007	420	54 34.18 N	166 37.24 W	CAT	CAT	
07-May-10	2:35	8	1	BJ4	NEU008	678	54 20.95 N	166 24.92 W	Neu	QTowF	
07-May-10	3:09	8	2	BJ4	BON008	668	54 21.15 N	166 24.84 W	20Bon	QTowF	
07-May-10	3:09	8	2	BJ4	BON008	668	54 21.15 N	166 24.84 W	60Bon	AMGEN, QTowF, RCountL, RH, SPFCM	
07-May-10 Porter and	3:09	8	2	BJ4	BON008	668	54 21.15 N	166 24.84 W	60Bon	AMGEN, QTowF, RCountL, RH, SPFCM	Walleye pollock removed for Steve Ron Heintz
07-May-10	3:09	8	2	BJ4	BON008	668	54 21.15 N	166 24.84 W	CAT	CAT	
07-May-10	3:57	8	3	BJ4	CAL001	674	54 21.05 N	166 24.90 W	CalVET	QTowF	Nets 1+2 in 1 jar
07-May-10	5:33	9	1	BJ1	NEU009	90	54 07.83 N	166 12.79 W	Neu	QTowF	

Cruise Summary For FOCI Cruise 2DY10 (DY10-04)

Date (GMT)	Time (GMT)	Station	Hau	FOCI Grid	Alternate Station	Depth (m)	Latitude	Longitude	Gear	Samples Collected	Haul Comments
07-May-10	7:31	10	1	BG4	NEU010	543	54 27.94 N	166 02.11 W	Neu	QTowF	
07-May-10	8:06	10	2	BG4	BON009	536	54 28.26 N	166 02.02 W	20Bon	QTowF	
07-May-10	8:06	10	2	BG4	BON009	536	54 28.26 N	166 02.02 W	60Bon	AMGEN, QTowF, RCountL, SPFCM	
07-May-10	8:06	10	2	BG4	BON009	536	54 28.26 N	166 02.02 W	60Bon	AMGEN, QTowF, RCountL, SPFCM	Walleye pollock removed for Steve Porter
07-May-10	8:06	10	2	BG4	BON009	536	54 28.26 N	166 02.02 W	CAT	CAT	
07-May-10	8:59	10	3	BG4	CAL002	536	54 28.37 N	166 02.12 W	CalVET	QTowF	Both nets in one jar.
07-May-10	10:20	11	1	BG7	NEU011	293	54 41.17 N	166 14.48 W	Neu	QTowF	
07-May-10	10:54	11	2	BG7	BON010	290	54 41.39 N	166 14.89 W	20Bon	QTowF	
07-May-10	10:54	11	2	BG7	BON010	290	54 41.39 N	166 14.89 W	60Bon	QTowF, RCountL	
07-May-10	10:54	11	2	BG7	BON010	290	54 41.39 N	166 14.89 W	CAT	CAT	
07-May-10	12:37	12	1	BG10	NEU012	154	54 54.29 N	166 26.63 W	Neu	QTowF	
07-May-10	13:06	12	2	BG10	BON011	154	54 54.24 N	166 26.49 W	20Bon	QTowF	Initial wire out at surface was not recorded (wire not zeroed). Wire counter said 7 m when the bongo was pulled from the water at the end of the tow.
07-May-10	13:06	12	2	BG10	BON011	154	54 54.24 N	166 26.49 W	60Bon	QTowF, RCountL	Initial wire out at surface was not recorded (wire not zeroed). Wire counter said 7 m when the bongo was pulled from the water at the end of the tow.
07-May-10	13:06	12	2	BG10	BON011	154	54 54.24 N	166 26.49 W	CAT	CAT	Initial wire out at surface was not recorded (wire not zeroed). Wire counter said 7 m when the bongo was pulled from the water at the end of the tow.
07-May-10	14:43	13	1	BG13	NEU013	144	55 07.27 N	166 39.06 W	Neu	QTowF	
07-May-10	15:11	13	2	BG13	BON012	144	55 07.49 N	166 39.13 W	20Bon	QTowF	
07-May-10	15:11	13	2	BG13	BON012	144	55 07.49 N	166 39.13 W	60Bon	QTowF, RCountL	
07-May-10	15:11	13	2	BG13	BON012	144	55 07.49 N	166 39.13 W	CAT	CAT	
07-May-10	16:54	14	1	BD13	NEU014	133	55 14.49 N	166 16.68 W	Neu	QTowF	
07-May-10	17:25	14	2	BD13	BON013	133	55 14.60 N	166 16.50 W	20Bon	QTowF	
07-May-10	17:25	14	2	BD13	BON013	133	55 14.60 N	166 16.50 W	60Bon	QTowF, RCountL	
07-May-10	17:25	14	2	BD13	BON013	133	55 14.60 N	166 16.50 W	CAT	CAT	
07-May-10	19:11	15	1	BD10	NEU015	137	55 01.42 N	166 03.69 W	Neu	QTowF	
07-May-10	19:41	15	2	BD10	BON014	137	55 01.60 N	166 03.69 W	20Bon	QTowF	
07-May-10	19:41	15	2	BD10	BON014	137	55 01.60 N	166 03.69 W	60Bon	QTowF, RCountL	
07-May-10	19:41	15	2	BD10	BON014	137	55 01.60 N	166 03.69 W	CAT	CAT	
07-May-10	21:27	16	1	BD7	NEU016	170	54 48.17 N	165 51.05 W	Neu	QTowF	
07-May-10	21:56	16	2	BD7	BON015	169	54 48.26 N	165 51.63 W	20Bon	QTowF	
07-May-10	21:56	16	2	BD7	BON015	169	54 48.26 N	165 51.63 W	60Bon	AMGEN, QTowF, RCountL	
07-May-10	21:56	16	2	BD7	BON015	169	54 48.26 N	165 51.63 W	CAT	CAT	
07-May-10	23:42	17	1	BD4	NEU017	334	54 35.02 N	165 38.78 W	Neu	QTowF	
08-May-10	0:18	17	2	BD4	BON016	342	54 35.35 N	165 39.23 W	20Bon	QTowF	

Cruise Summary For FOCI Cruise 2DY10 (DY10-04)

Date (GMT)	Time (GMT)	Station	Hau	FOCI Grid	Alternate Station	Depth (m)	Latitude	Longitude	Gear	Samples Collected	Haul Comments
08-May-10	0:18	17	2	BD4	BON016	342	54 35.35 N	165 39.23 W	60Bon	AMGEN, QTowF, RCountL, RH, SPFCM	
08-May-10	0:18	17	2	BD4	BON016	342	54 35.35 N	165 39.23 W	60Bon	AMGEN, QTowF, RCountL, RH, SPFCM	Walleye pollock removed for Steve Porter and
08-May-10	0:18	17	2	BD4	BON016	342	54 35.35 N	165 39.23 W	CAT	CAT	Ron Heintz
08-May-10	1:15	17	3	BD4	CAL003	334	54 35.03 N	165 38.81 W	CalVET	QTowF	Nets 1+2 in 1 jar
08-May-10	1:15	17	3	BD4	CAL003	334	54 35.03 N	165 38.81 W	CAT	CAT	
08-May-10	3:34	18	1	UPA	CTD001	146	54 19.58 N	165 24.21 W	CTDB	Chlor, CTD, Fluor, PAR	
08-May-10	3:47	18	2	UPA	NEU018	147	54 19.48 N	165 24.45 W	Neu	QTowF	time approximate, but probably within 30s
08-May-10	4:13	18	3	UPA	BON017	149	54 19.61 N	165 24.64 W	20Bon	QTowF	
08-May-10	4:13	18	3	UPA	BON017	149	54 19.61 N	165 24.64 W	60Bon	QTowF	
08-May-10	4:13	18	3	UPA	BON017	149	54 19.61 N	165 24.64 W	CAT	CAT	
08-May-10	5:29	19	1	UPC	CTD002	189	54 22.10 N	165 17.16 W	CTDB	Chlor, CTD, Fluor, PAR	CTD temperature and salinity spiked (-99) several times during descent so we tried several times before getting clean descent traces.
08-May-10	5:47	19	2	UPC	NEU019	171	54 22.10 N	165 16.59 W	Neu	QTowF	
08-May-10	6:12	19	3	UPC	BON018	175	54 22.17 N	165 16.84 W	20Bon	QTowF	
08-May-10	6:12	19	3	UPC	BON018	175	54 22.17 N	165 16.84 W	60Bon	QTowF	
08-May-10	6:12	19	3	UPC	BON018	175	54 22.17 N	165 16.84 W	CAT	CAT	
08-May-10	7:21	20	1	UPE	CTD003	163	54 24.73 N	165 09.32 W	CTDB	Chlor, CTD, Fluor, PAR	
08-May-10	7:41	20	2	UPE	NEU020	156	54 24.70 N	165 08.75 W	Neu	QTowF	
08-May-10	8:08	20	3	UPE	BON019	157	54 24.93 N	165 09.23 W	20Bon	QTowF	
08-May-10	8:08	20	3	UPE	BON019	157	54 24.93 N	165 09.23 W	60Bon	QTowF	
08-May-10	8:08	20	3	UPE	BON019	157	54 24.93 N	165 09.23 W	CAT	CAT	
08-May-10	9:07	21	1	UPG	CTD004	50	54 27.65 N	165 00.76 W	CTDB	Chlor, CTD, Fluor, PAR	
08-May-10	9:22	21	2	UPG	NEU021	54	54 27.50 N	165 00.61 W	Neu	QTowF	
08-May-10	9:49	21	3	UPG	BON020	53	54 27.71 N	165 00.97 W	20Bon	QTowF	
08-May-10	9:49	21	3	UPG	BON020	53	54 27.71 N	165 00.97 W	60Bon	QTowF	
08-May-10	9:49	21	3	UPG	BON020	53	54 27.71 N	165 00.97 W	CAT	CAT	
08-May-10	11:37	22	1	BA4	CTD005	137	54 42.43 N	165 16.36 W	CTDB	Chlor, CTD, Fluor, PAR	
08-May-10	11:55	22	2	BA4	NEU022	135	54 42.32 N	165 16.19 W	Neu	QTowF	
08-May-10	12:22	22	3	BA4	BON021	136	54 42.42 N	165 16.32 W	20Bon	QTowF	
08-May-10	12:22	22	3	BA4	BON021	136	54 42.42 N	165 16.32 W	60Bon	AMGEN, QTowF, RCountL, RH	
08-May-10	12:22	22	3	BA4	BON021	136	54 42.42 N	165 16.32 W	CAT	CAT	
08-May-10	14:23	23	1	BA7	CTD006	127	54 55.46 N	165 28.92 W	CTDB	Chlor, CTD, Fluor, PAR	
08-May-10	14:46	23	2	BA7	NEU023	127	54 55.34 N	165 28.56 W	Neu	QTowF	
08-May-10	15:15	23	3	BA7	BON022	127	54 55.50 N	165 28.27 W	20Bon	QTowF	
08-May-10	15:15	23	3	BA7	BON022	127	54 55.50 N	165 28.27 W	60Bon	QTowF, RCountL, RH	
08-May-10	15:15	23	3	BA7	BON022	127	54 55.50 N	165 28.27 W	CAT	CAT	

Cruise Summary For FOCI Cruise 2DY10 (DY10-04)

Date (GMT)	Time (GMT)	Station	Hau	FOCI Grid	Alternate Station	Depth (m)	Latitude	Longitude	Gear	Samples Collected	Haul Comments
08-May-10	17:08	24	1	BA10	CTD007	123	55 08.60 N	165 41.07 W	CTDB	Chlor, CTD, Fluor, PAR	
08-May-10	17:29	24	2	BA10	NEU024	122	55 08.46 N	165 40.95 W	Neu	QTowF	
08-May-10	17:57	24	3	BA10	BON023	122	55 08.51 N	165 40.74 W	20Bon	QTowF	
08-May-10	17:57	24	3	BA10	BON023	122	55 08.51 N	165 40.74 W	60Bon	QTowF, RCountL	
08-May-10	17:57	24	3	BA10	BON023	122	55 08.51 N	165 40.74 W	CAT	CAT	
08-May-10	19:46	25	1	BA13	CTD008	121	55 22.21 N	165 53.75 W	CTDB	Chlor, CTD, Fluor, PAR	
08-May-10	20:07	25	2	BA13	NEU025	121	55 21.75 N	165 53.66 W	Neu	QTowF	
08-May-10	20:36	25	3	BA13	BON024	121	55 21.88 N	165 53.61 W	20Bon	QTowF	60bon codend erroneously switched: net 1 had 500 codend; net 2 had 333 codend so redid
tow.											
08-May-10	20:36	25	3	BA13	BON024	121	55 21.88 N	165 53.61 W	60Bon	Discard	20bon net 1 saved (qtow) 60bon codend erroneously switched: net 1 had 500 codend; net 2 had 333 codend so redid
tow.											
08-May-10	20:36	25	3	BA13	BON024	121	55 21.88 N	165 53.61 W	CAT	CAT	20bon net 1 saved (qtow) 60bon codend erroneously switched: net 1 had 500 codend; net 2 had 333 codend so redid
tow.											
08-May-10	21:06	25	4	BA13	BON025	121	55 21.88 N	165 53.59 W	20Bon	QTowF	20bon net 1 saved (qtow)
08-May-10	21:06	25	4	BA13	BON025	121	55 21.88 N	165 53.59 W	60Bon	QTowF, RH	second attempt. One jelly in 60Bon Net2 rinsed and discarded
08-May-10	21:06	25	4	BA13	BON025	121	55 21.88 N	165 53.59 W	CAT	CAT	second attempt. One jelly in 60Bon Net2 rinsed and discarded
08-May-10	22:43	26	1	AX13	NEU026	115	55 28.84 N	165 30.74 W	Neu	QTowF	
08-May-10	23:09	26	2	AX13	BON026	115	55 29.01 N	165 30.47 W	20Bon	QTowF	
08-May-10	23:09	26	2	AX13	BON026	115	55 29.01 N	165 30.47 W	60Bon	QTowF, RCountL	
08-May-10	23:09	26	2	AX13	BON026	115	55 29.01 N	165 30.47 W	CAT	CAT	
09-May-10	0:45	27	1	AX10	NEU027	114	55 15.66 N	165 17.87 W	Neu	QTowF	
09-May-10	1:10	27	2	AX10	BON027	115	55 15.85 N	165 18.31 W	20Bon	QTowF	
09-May-10	1:10	27	2	AX10	BON027	115	55 15.85 N	165 18.31 W	60Bon	AMGEN, QTowF, RCountL	
09-May-10	1:10	27	2	AX10	BON027	115	55 15.85 N	165 18.31 W	CAT	CAT	
09-May-10	2:46	28	1	AX7	NEU028	112	55 02.74 N	165 05.66 W	Neu	QTowF	
09-May-10	3:11	28	2	AX7	BON028	112	55 02.72 N	165 05.77 W	20Bon	QTowF	60bon net1 had 1 small jelly (~6")
09-May-10	3:11	28	2	AX7	BON028	112	55 02.72 N	165 05.77 W	60Bon	AMGEN, QTowF, RCountL	60bon net1 had 1 small jelly (~6")
09-May-10	3:11	28	2	AX7	BON028	112	55 02.72 N	165 05.77 W	CAT	CAT	60bon net1 had 1 small jelly (~6")
09-May-10	4:51	29	1	AX4	NEU029	74	54 49.51 N	164 53.27 W	Neu	QTowF	
09-May-10	5:13	29	2	AX4	BON029	75	54 49.53 N	164 53.23 W	20Bon	QTowF	
09-May-10	5:13	29	2	AX4	BON029	75	54 49.53 N	164 53.23 W	60Bon	AMGEN, QTowF, RCountL	
09-May-10	5:13	29	2	AX4	BON029	75	54 49.53 N	164 53.23 W	CAT	CAT	
09-May-10	6:45	30	1	AU4	NEU030	46	54 56.93 N	164 30.61 W	Neu	QTowF	
09-May-10	7:07	30	2	AU4	BON030	44	54 56.71 N	164 30.11 W	20Bon	QTowF	
09-May-10	7:07	30	2	AU4	BON030	44	54 56.71 N	164 30.11 W	60Bon	QTowF, RCountL	

Cruise Summary For FOCI Cruise 2DY10 (DY10-04)

Date (GMT)	Time (GMT)	Station	Hau	FOCI Grid	Alternate Station	Depth (m)	Latitude	Longitude	Gear	SamplesCollected	HaulComments
09-May-10	7:07	30	2	AU4	BON030	44	54 56.71 N	164 30.11 W	CAT	CAT	
09-May-10	8:31	31	1	AU7	NEU031	101	55 09.91 N	164 42.48 W	Neu	QTowF	
09-May-10	8:56	31	2	AU7	BON031	102	55 09.94 N	164 42.36 W	20Bon	QTowF	
09-May-10	8:56	31	2	AU7	BON031	102	55 09.94 N	164 42.36 W	60Bon	QTowF, RCountL	
09-May-10	8:56	31	2	AU7	BON031	102	55 09.94 N	164 42.36 W	CAT	CAT	
09-May-10	10:24	32	1	AU10	NEU032	108	55 23.14 N	164 55.06 W	Neu	QTowF	
09-May-10	10:52	32	2	AU10	BON032	108	55 23.12 N	164 55.29 W	20Bon	QTowF	Big jelly in 60BON net 2.
09-May-10	10:52	32	2	AU10	BON032	108	55 23.12 N	164 55.29 W	60Bon	QTowF, RCountL	
09-May-10	10:52	32	2	AU10	BON032	108	55 23.12 N	164 55.29 W	60Bon	QTowF, RCountL	Big jelly in 60BON net 2.
09-May-10	10:52	32	2	AU10	BON032	108	55 23.12 N	164 55.29 W	CAT	CAT	Big jelly in 60BON net 2.
09-May-10	12:32	33	1	AR10	NEU033	101	55 30.20 N	164 31.89 W	Neu	QTowF	
09-May-10	12:55	33	2	AR10	BON033	102	55 30.31 N	164 31.89 W	20Bon	QTowF	Big jelly in 60 bon net 1
09-May-10	12:55	33	2	AR10	BON033	102	55 30.31 N	164 31.89 W	60Bon	QTowF, RCountL	Big jelly in 60 bon net 1
09-May-10	12:55	33	2	AR10	BON033	102	55 30.31 N	164 31.89 W	CAT	CAT	Big jelly in 60 bon net 1
09-May-10	14:33	34	1	AR7	NEU034	98	55 17.05 N	164 20.02 W	Neu	QTowF	
09-May-10	14:59	34	2	AR7	BON034	97	55 17.03 N	164 19.34 W	20Bon	QTowF	some/moderate fish 'noise' on 38 khz.
09-May-10	14:59	34	2	AR7	BON034	97	55 17.03 N	164 19.34 W	60Bon	QTowF, RCountL	some/moderate fish 'noise' on 38 khz.
09-May-10	14:59	34	2	AR7	BON034	97	55 17.03 N	164 19.34 W	CAT	CAT	some/moderate fish 'noise' on 38 khz.
09-May-10	16:22	35	1	AR4	NEU035	35	55 04.09 N	164 07.59 W	Neu	QTowF	
09-May-10	16:56	35	2	AR4	BON035	36	55 03.71 N	164 07.20 W	20Bon	QTowF	
09-May-10	16:56	35	2	AR4	BON035	36	55 03.71 N	164 07.20 W	60Bon	QTowF, RCountL, RH	
09-May-10	16:56	35	2	AR4	BON035	36	55 03.71 N	164 07.20 W	CAT	CAT	
09-May-10	18:27	36	1	AO4	NEU036	47	55 11.60 N	163 43.98 W	Neu	QTowF	
09-May-10	18:42	36	2	AO4	BON036	45	55 11.13 N	163 43.93 W	20Bon	QTowF	some 'schools' on 38 khz (widely spaced apart).
09-May-10	18:42	36	2	AO4	BON036	45	55 11.13 N	163 43.93 W	60Bon	QTowF, RCountL, RH	some 'schools' on 38 khz (widely spaced apart).
09-May-10	18:42	36	2	AO4	BON036	45	55 11.13 N	163 43.93 W	CAT	CAT	some 'schools' on 38 khz (widely spaced apart).
09-May-10	20:10	37	1	AO7	NEU037	89	55 24.68 N	163 56.40 W	Neu	QTowF	NEUSTON OUT MARKED 15 SEC LATE
09-May-10	20:35	37	2	A07	BON037	89	55 24.46 N	163 56.15 W	20Bon	QTowF	
09-May-10	20:35	37	2	A07	BON037	89	55 24.46 N	163 56.15 W	60Bon	QTowF, RCountL, RH	
09-May-10	20:35	37	2	A07	BON037	89	55 24.46 N	163 56.15 W	CAT	CAT	
09-May-10	22:11	38	1	AO10	NEU038	95	55 37.86 N	164 09.12 W	Neu	QTowF	
09-May-10	22:35	38	2	AO10	BON038	95	55 37.66 N	164 08.86 W	20Bon	QTowF	
09-May-10	22:35	38	2	AO10	BON038	95	55 37.66 N	164 08.86 W	60Bon	QTowF, RCountL, RH	
09-May-10	22:35	38	2	AO10	BON038	95	55 37.66 N	164 08.86 W	CAT	CAT	
10-May-10	0:03	39	1	AO13		95	55 50.92 N	164 21.88 W	Trans	QTowF	END TRANSECT, CUFES #7
10-May-10	0:08	39	2	AO13	NEU039	95	55 50.99 N	164 21.73 W	Neu	QTowF	
10-May-10	0:30	39	3	AO13	BON039	95	55 50.97 N	164 21.55 W	20Bon	QTowF	

Cruise Summary For FOCI Cruise 2DY10 (DY10-04)

Date (GMT)	Time (GMT)	Station	Hau	FOCI Grid	Alternate Station	Depth (m)	Latitude	Longitude	Gear	SamplesCollected	HaulComments
10-May-10	0:30	39	3	AO13	BON039	95	55 50.97 N	164 21.55 W	60Bon	QTowF, RCountL, RH	
10-May-10	0:30	39	3	AO13	BON039	95	55 50.97 N	164 21.55 W	CAT	CAT	
10-May-10	1:50	40	1	AL13		93	55 57.49 N	164 00.21 W	Trans	QTowF	END TRANSECT SAMPLE#9
10-May-10	2:00	40	2	AL13	NEU040	93	55 57.91 N	163 58.59 W	Neu	QTowF	
10-May-10	2:20	40	3	AL13	BON040	93	55 57.72 N	163 58.44 W	20Bon	QTowF	
10-May-10	2:20	40	3	AL13	BON040	93	55 57.72 N	163 58.44 W	60Bon	QTowF, RCountL, RH	
10-May-10	2:20	40	3	AL13	BON040	93	55 57.72 N	163 58.44 W	CAT	CAT	
10-May-10	3:54	41	1	AL16	NEU041	90	56 10.99 N	164 11.33 W	Neu	QTowF	
10-May-10	4:20	41	2	AL16	BON041	90	56 11.07 N	164 11.60 W	20Bon	QTowF	
10-May-10	4:20	41	2	AL16	BON041	90	56 11.07 N	164 11.60 W	60Bon	QTowF, RCountL, RH	
10-May-10	4:20	41	2	AL16	BON041	90	56 11.07 N	164 11.60 W	CAT	CAT	
10-May-10	5:50	42	1	AO16	NEU042	93	56 03.73 N	164 34.62 W	Neu	QTowF	
10-May-10	6:06	42	2	AO16	BON042	93	56 04.13 N	164 34.16 W	20Bon	QTowF	60BON Net1 had one jelly rinsed and discarded
10-May-10	6:06	42	2	AO16	BON042	93	56 04.13 N	164 34.16 W	60Bon	QTowF, RCountL, RH	60BON Net1 had one jelly rinsed and discarded
10-May-10	6:06	42	2	AO16	BON042	93	56 04.13 N	164 34.16 W	CAT	CAT	60BON Net1 had one jelly rinsed and discarded
10-May-10	7:38	43	1	AR16	NEU043	96	55 56.43 N	164 57.87 W	Neu	QTowF	
10-May-10	8:01	43	2	AR16	BON043	96	55 56.61 N	164 57.77 W	20Bon	QTowF	60BON NET 1 HAD ONE JELLY RINSED AND DISCARDED.
10-May-10	8:01	43	2	AR16	BON043	96	55 56.61 N	164 57.77 W	60Bon	QTowF, RCountL	60BON NET 1 HAD ONE JELLY RINSED AND DISCARDED.
10-May-10	8:01	43	2	AR16	BON043	96	55 56.61 N	164 57.77 W	CAT	CAT	60BON NET 1 HAD ONE JELLY RINSED AND DISCARDED.
10-May-10	9:48	44	1	AR13	NEU044	98	55 43.47 N	164 44.86 W	Neu	QTowF	
10-May-10	10:13	44	2	AR13	BON044	98	55 43.50 N	164 44.84 W	20Bon	QTowF	
10-May-10	10:13	44	2	AR13	BON044	98	55 43.50 N	164 44.84 W	60Bon	QTowF, RCountL	
10-May-10	10:13	44	2	AR13	BON044	98	55 43.50 N	164 44.84 W	CAT	CAT	
10-May-10	13:35	45	1		BUOY001	94	55 20.77 N	164 07.81 W	SatBuoy	Deploy	SATBUOY #50796
10-May-10	15:56	46	1	AL10	NEU045	95	55 44.29 N	163 46.04 W	Neu	QTowF	
10-May-10	16:20	46	2	AL10	BON045	95	55 44.53 N	163 45.75 W	20Bon	QTowF	
10-May-10	16:20	46	2	AL10	BON045	95	55 44.53 N	163 45.75 W	60Bon	QTowF, RCountL, RH	
10-May-10	16:20	46	2	AL10	BON045	95	55 44.53 N	163 45.75 W	CAT	CAT	
10-May-10	17:53	47	1	AL7	NEU046	73	55 31.14 N	163 33.45 W	Neu	QTowF	
10-May-10	18:09	47	2	AL7	BON046	73	55 31.36 N	163 32.92 W	20Bon	QTowF	60BON NET 2 HAD LARGE JELLY. Rinsed and discarded.
10-May-10	18:09	47	2	AL7	BON046	73	55 31.36 N	163 32.92 W	60Bon	QTowF, RCountL, RH	60BON NET 2 HAD LARGE JELLY. Rinsed and discarded.
10-May-10	18:09	47	2	AL7	BON046	73	55 31.36 N	163 32.92 W	CAT	CAT	60BON NET 2 HAD LARGE JELLY. Rinsed and discarded.

Cruise Summary For FOCI Cruise 2DY10 (DY10-04)

Date (GMT)	Time (GMT)	Station	Hau	FOCI Grid	Alternate Station	Depth (m)	Latitude	Longitude	Gear	Samples Collected	Haul Comments
10-May-10	19:39	48	1	AL4	NEU047	48	55 18.04 N	163 20.52 W	Neu	QTowF	
10-May-10	20:02	48	2	AL4	BON047	48	55 18.06 N	163 20.36 W	20Bon	QTowF	60bon net2 jelly rinsed and discarded
10-May-10	20:02	48	2	AL4	BON047	48	55 18.06 N	163 20.36 W	60Bon	AMGEN, QTowF, RCountL, RH	60bon net2 jelly rinsed and discarded
10-May-10	20:02	48	2	AL4	BON047	48	55 18.06 N	163 20.36 W	CAT	CAT	60bon net2 jelly rinsed and discarded
10-May-10	22:29	49	1	AI4	NEU048	32	55 25.15 N	162 57.03 W	Neu	QTowF	
10-May-10	22:44	49	2	AI4	BON048	34	55 25.52 N	162 27.06 W	20Bon	QTowF	
10-May-10	22:44	49	2	AI4	BON048	34	55 25.52 N	162 27.06 W	60Bon	QTowF, RCountL, RH	
10-May-10	22:44	49	2	AI4	BON048	34	55 25.52 N	162 27.06 W	CAT	CAT	
11-May-10	0:06	50	1	AI7	NEU049	66	55 38.18 N	163 09.13 W	Neu	QTowF	
11-May-10	0:28	50	2	AI7	BON049	68	55 38.52 N	163 09.70 W	20Bon	QTowF	60BON nets 1 and 2 each had one jellyfish which were rinsed and discarded
11-May-10	0:28	50	2	AI7	BON049	68	55 38.52 N	163 09.70 W	60Bon	QTowF, RCountL, RH	60BON nets 1 and 2 each had one jellyfish which were rinsed and discarded
11-May-10	0:28	50	2	AI7	BON049	68	55 38.52 N	163 09.70 W	CAT	CAT	60BON nets 1 and 2 each had one jellyfish which were rinsed and discarded
11-May-10	1:59	51	1	AI10	NEU050	92	55 51.72 N	163 22.41 W	Neu	QTowF	
11-May-10	2:25	51	2	AI10	BON050	92	55 51.89 N	163 22.46 W	20Bon	QTowF	
11-May-10	2:25	51	2	AI10	BON050	92	55 51.89 N	163 22.46 W	60Bon	QTowF, RCountL, RH	
11-May-10	2:25	51	2	AI10	BON050	92	55 51.89 N	163 22.46 W	CAT	CAT	
11-May-10	3:59	52	1	AI13	NEU051	92	56 04.81 N	163 35.23 W	Neu	QTowF	
11-May-10	4:24	52	2	AI13	BON051	92	56 05.02 N	163 35.07 W	20Bon	QTowF	
11-May-10	4:24	52	2	AI13	BON051	92	56 05.02 N	163 35.07 W	60Bon	QTowF, RCountL	
11-May-10	4:24	52	2	AI13	BON051	92	56 05.02 N	163 35.07 W	CAT	CAT	
11-May-10	6:35	53	1	AF13	CTD009	86	56 12.24 N	163 11.86 W	CTDB	Chlor, CTD, Fluor, PAR	
11-May-10	6:58	53	2	AF13	CAL004	86	56 12.31 N	163 11.79 W	CalVET	QTowF	
11-May-10	6:58	53	2	AF13	CAL004	86	56 12.31 N	163 11.79 W	CalVET	QTowF	Nets 1 and 2 preserved in same jar.
11-May-10	7:09	53	3	AF13	NEU052	87	56 11.99 N	163 11.88 W	Neu	QTowF	
11-May-10	7:33	53	4	AF13	BON052	87	56 12.13 N	163 12.14 W	20Bon	QTowF	
11-May-10	7:33	53	4	AF13	BON052	87	56 12.13 N	163 12.14 W	60Bon	AMGEN, QTowF, RCountL	
11-May-10	7:33	53	4	AF13	BON052	87	56 12.13 N	163 12.14 W	CAT	CAT	
11-May-10	9:10	54	1	AF10	CTD010	86	55 59.09 N	162 59.07 W	CTDB	Chlor, CTD, Fluor, PAR	
11-May-10	9:32	54	2	AF10	CAL005	86	55 59.05 N	162 58.85 W	CalVET	QTowF	Both nets preserved in one jar
11-May-10	9:32	54	2	AF10	CAL005	86	55 59.05 N	162 58.85 W	CalVET	QTowF	both nets preserved in one jar.
11-May-10	9:44	54	3	AF10	NEU053	87	55 58.77 N	162 59.15 W	Neu	QTowF	
11-May-10	10:07	54	4	AF10	BON053	86	55 58.93 N	162 59.01 W	20Bon	QTowF	Jelly in 60BON net 2.
11-May-10	10:07	54	4	AF10	BON053	86	55 58.93 N	162 59.01 W	60Bon	QTowF, RCountL, RH	Jelly in 60BON net 2.
11-May-10	10:07	54	4	AF10	BON053	86	55 58.93 N	162 59.01 W	CAT	CAT	Jelly in 60BON net 2.
11-May-10	11:44	55	1	AF7	CTD011	61	55 45.69 N	162 46.23 W	CTDB	Chlor, CTD, Fluor, PAR	7 bottles collected for chlorophyll. Bottom was fluorescence max.

Cruise Summary For FOCI Cruise 2DY10 (DY10-04)

Date (GMT)	Time (GMT)	Station	Hau	FOCI Grid	Alternate Station	Depth (m)	Latitude	Longitude	Gear	SamplesCollected	HaulComments
11-May-10	12:02	55	2	AF7	CAL006	61	55 45.65 N	162 46.19 W	CalVET	QTowF	Both nets preserved in same jar. Not deep enough to take nets to 60m. Net deployed to SEACAT depth of 55 meters and net depth of
53											
11-May-10	12:17	55	3	AF7	NEU054	60	55 45.86 N	162 46.19 W	Neu	QTowF	meters.
11-May-10	12:40	55	4	AF7	BON054	62	55 45.75 N	162 46.31 W	20Bon	QTowF	
11-May-10	12:40	55	4	AF7	BON054	62	55 45.75 N	162 46.31 W	60Bon	QTowF, RCountL, SPFCM	
11-May-10	12:40	55	4	AF7	BON054	62	55 45.75 N	162 46.31 W	CAT	CAT	
11-May-10	14:26	56	1	AF4	CTD012	32	55 33.72 N	162 34.53 W	CTDB	Chlor, CTD, Fluor, PAR	
11-May-10	14:38	56	2	AF4	CAL007	33	55 33.66 N	162 34.64 W	CalVET	Discard	Wire angle was 10-15 degrees the entire tow. Redo on next haul.
11-May-10	14:47	56	3	AF4	CAL008	33	55 33.66 N	162 34.64 W	CalVET	QTowF	Both nets preserved in same jar. Not deep enough to take net to 60 meters. Redo from
last											
11-May-10	15:03	56	4	AF4	NEU055	36	55 34.24 N	162 34.51 W	Neu	QTowF	tow.
11-May-10	15:17	56	5	AF4	BON055	36	55 33.97 N	162 34.82 W	20Bon	QTowF	
11-May-10	15:17	56	5	AF4	BON055	36	55 33.97 N	162 34.82 W	60Bon	AMGEN, QTowF, RCountL, RH, SPFCM	
11-May-10	15:17	56	5	AF4	BON055	36	55 33.97 N	162 34.82 W	CAT	CAT	
11-May-10	17:20	57	1	AC7	NEU056	63	55 52.96 N	162 22.08 W	Neu	QTowF	
11-May-10	17:36	57	2	AC7	BON056	62	55 52.67 N	162 22.80 W	20Bon	QTowF	
11-May-10	17:36	57	2	AC7	BON056	62	55 52.67 N	162 22.80 W	60Bon	QTowF, RCountL, SPFCM	
11-May-10	17:36	57	2	AC7	BON056	62	55 52.67 N	162 22.80 W	CAT	CAT	
11-May-10	19:37	58	1	AC10	NEU057	80	56 06.46 N	162 35.26 W	Neu	QTowF	
11-May-10	19:53	58	2	AC10	BON057	80	56 06.04 N	162 36.05 W	20Bon	QTowF	
11-May-10	19:53	58	2	AC10	BON057	80	56 06.04 N	162 36.05 W	60Bon	QTowF, RCountL	
11-May-10	19:53	58	2	AC10	BON057	80	56 06.04 N	162 36.05 W	CAT	CAT	
11-May-10	21:29	59	1	AC13	NEU058	79	56 19.33 N	162 47.83 W	Neu	QTowF	
11-May-10	21:56	59	2	AC13	BON058	80	56 19.29 N	162 48.68 W	20Bon	QTowF	
11-May-10	21:56	59	2	AC13	BON058	80	56 19.29 N	162 48.68 W	60Bon	QTowF	
11-May-10	21:56	59	2	AC13	BON058	80	56 19.29 N	162 48.68 W	CAT	CAT	
12-May-10	1:35	60	1	M2SOUTH	NEU059	77	56 39.95 N	163 50.98 W	Neu	QTowF	
12-May-10	1:54	60	2	M2SOUTH	BON059	77	56 39.79 N	163 51.79 W	20Bon	QTowF	1 jelly in each 60bon net (rinsed and discarded)
12-May-10	1:54	60	2	M2SOUTH	BON059	77	56 39.79 N	163 51.79 W	60Bon	QTowF, RCountL	1 jelly in each 60bon net (rinsed and discarded)
12-May-10	1:54	60	2	M2SOUTH	BON059	77	56 39.79 N	163 51.79 W	CAT	CAT	1 jelly in each 60bon net (rinsed and discarded)
12-May-10	2:21	60	3	M2SOUTH	CTD013	77	56 39.98 N	163 51.97 W	CTDB	CTD, Fluor, Nut, PAR	Nutrients processed by C Mordy
12-May-10	4:04	61	1	M2EAST	CTD014	71	56 56.39 N	163 49.80 W	CTDB	CTD, Fluor, Nut, PAR	
12-May-10	4:14	61	2	M2EAST	NEU060	71	56 56.32 N	163 49.69 W	Neu	QTowF	

Cruise Summary For FOCI Cruise 2DY10 (DY10-04)

Date (GMT)	Time (GMT)	Station	Hau	FOCI Grid	Alternate Station	Depth (m)	Latitude	Longitude	Gear	SamplesCollected	HaulComments
12-May-10	4:37	61	3	M2EAST	BON060	71	56 56.54 N	163 49.79 W	20Bon	QTowF	Relatively high revs on 500-mesh net may indicate clogging of finer mesh nets
12-May-10	4:37	61	3	M2EAST	BON060	71	56 56.54 N	163 49.79 W	60Bon	QTowF	Relatively high revs on 500-mesh net may indicate clogging of finer mesh nets
12-May-10	4:37	61	3	M2EAST	BON060	71	56 56.54 N	163 49.79 W	CAT	CAT	
12-May-10	6:13	62	1	M2NORTH	CTD015	70	57 00.88 N	164 12.70 W	CTDB	CTD, Fluor, Nut, PAR	
12-May-10	6:21	62	2	M2NORTH	NEU061	70	57 00.73 N	164 12.69 W	Neu	QTowF	
12-May-10	6:45	62	3	M2NORTH	BON061	70	57 01.14 N	164 12.70 W	20Bon	QTowF	Nets finer than 500 may be clogging
12-May-10	6:45	62	3	M2NORTH	BON061	70	57 01.14 N	164 12.70 W	60Bon	AMGEN, QTowF, RCountL	Nets finer than 500 may be clogging
12-May-10	6:45	62	3	M2NORTH	BON061	70	57 01.14 N	164 12.70 W	CAT	CAT	Nets finer than 500 may be clogging
12-May-10	8:23	63	1	M2 WEST	CTD016	75	56 45.90 N	164 19.93 W	CTDB	CTD, Fluor, Nut, PAR	
12-May-10	8:36	63	2	M2 WEST	NEU062	75	56 46.19 N	164 20.04 W	Neu	QTowF	
12-May-10	8:57	63	3	M2WEST	BON062	75	56 45.94 N	164 19.87 W	20Bon	QTowF	60bon net 1 and both 20bon questionable because of low flowmeter counts indicating net plugging from brown phytoplankton.
12-May-10	8:57	63	3	M2WEST	BON062	75	56 45.94 N	164 19.87 W	60Bon	QTowF, RCountL	60bon net 1 and both 20bon questionable because of low flowmeter counts indicating net plugging from brown phytoplankton.
12-May-10	8:57	63	3	M2WEST	BON062	75	56 45.94 N	164 19.87 W	60Bon	QTowF, RCountL	60bon net 1 and both 20bon questionable because of low flowmeter counts indicating net plugging from brown phytoplankton. 3 jellies in 60BON net 2 (rinsed and saved for K. Hough).
12-May-10	8:57	63	3	M2WEST	BON062	75	56 45.94 N	164 19.87 W	CAT	CAT	60bon net 1 and both 20bon questionable because of low flowmeter counts indicating net plugging from brown phytoplankton.
12-May-10	10:42	64	1	M2	BON063	73	56 52.45 N	164 01.24 W	20Bon	QTowF	2 jellies in 60BON net 2. 60BON net 1 and 20BON nets 1 and 2 questionable due to low flow counts and possible net plugging from brown algae.
12-May-10	10:42	64	1	M2	BON063	73	56 52.45 N	164 01.24 W	60Bon	QTowF, RCountL	2 jellies in 60BON net 2. 60BON net 1 and 20BON nets 1 and 2 questionable due to low flow counts and possible net plugging from brown algae.
12-May-10	10:42	64	1	M2	BON063	73	56 52.45 N	164 01.24 W	CAT	CAT	2 jellies in 60BON net 2. 60BON net 1 and 20BON nets 1 and 2 questionable due to low flow counts and possible net plugging from brown algae.
12-May-10	11:05	64	2	M2	NEU063	73	56 52.44 N	164 01.09 W	Neu	QTowF	
12-May-10	11:28	64	3	M2	CAL009	73	56 52.33 N	164 01.01 W	CalVET	QTowF	Both nets preserved in one jar.
12-May-10	20:20	64	4	M2	MOOR001	73	56 51.84 N	164 03.76 W	Moor	Other	M2 surface mooring deployed
14-May-10	1:56	65	1	BP49	NEU064	71	57 24.97 N	170 20.71 W	Neu	QTowF	
14-May-10	2:16	65	2	BP49	BON064	71	57 24.88 N	170 20.23 W	20Bon	QTowF	Net 1 20Bon corrected for initial flow counts using previous tow

Cruise Summary For FOCI Cruise 2DY10 (DY10-04)

Date (GMT)	Time (GMT)	Station	Hau	FOCI Grid	Alternate Station	Depth (m)	Latitude	Longitude	Gear	Samples Collected	Haul Comments
14-May-10	2:16	65	2	BP49	BON064	71	57 24.88 N	170 20.23 W	60Bon	QTowF, RCountL	Net 1 20Bon corrected for initial flow counts using previous tow
14-May-10	2:16	65	2	BP49	BON064	71	57 24.88 N	170 20.23 W	CAT	CAT	Net 1 20Bon corrected for initial flow counts using previous tow
14-May-10 BP49	4:22	66	1	BS49		80	57 17.40 N	170 43.20 W	Trans	QTowF	CUFES SAMPLE #11. END TRANSECT
14-May-10	4:26	66	2	BS49	NEU065	80	57 17.56 N	170 43.11 W	Neu	QTowF	TO BS49. 500 MICRON MESH
14-May-10	4:48	66	3	BS49	BON065	80	57 17.52 N	170 42.92 W	20Bon	QTowF	
14-May-10	4:48	66	3	BS49	BON065	80	57 17.52 N	170 42.92 W	60Bon	QTowF, RCountL	
14-May-10	4:48	66	3	BS49	BON065	80	57 17.52 N	170 42.92 W	CAT	CAT	
14-May-10 BS49	6:13	67	1	BV49		97	57 10.72 N	171 04.29 W	Trans	QTowF	CUFES SAMPLE #16. END TRANSECT
											TO BV49
14-May-10	6:20	67	2	BV49	NEU066	98	57 10.35 N	171 05.34 W	Neu	QTowF	
14-May-10	6:43	67	3	BV49	BON066	98	57 10.21 N	171 05.13 W	20Bon	QTowF	
14-May-10	6:43	67	3	BV49	BON066	98	57 10.21 N	171 05.13 W	60Bon	AMGEN, QTowF, RCountL	
14-May-10	6:43	67	3	BV49	BON066	98	57 10.21 N	171 05.13 W	CAT	CAT	
14-May-10	7:57	68	1	BV46		104	57 04.95 N	171 00.20 W	Trans	QTowF	CUFES sample #17/18. End transect BV49 to BV46.
14-May-10	8:09	68	2	BV46	NEU067	103	56 57.03 N	170 52.35 W	Neu	QTowF	
14-May-10	8:37	68	3	BV46	BON067	104	56 57.04 N	170 51.91 W	20Bon	QTowF	
14-May-10	8:37	68	3	BV46	BON067	104	56 57.04 N	170 51.91 W	60Bon	AMGEN, QTowF, RCountL	
14-May-10	8:37	68	3	BV46	BON067	104	56 57.04 N	170 51.91 W	60Bon	AMGEN, QTowF, RCountL	4 pollock removed from 60Bon net 1.
14-May-10	8:37	68	3	BV46	BON067	104	56 57.04 N	170 51.91 W	CAT	CAT	
14-May-10	9:46	69	1	BS46		72	57 04.03 N	170 30.15 W	Trans	QTowF	CUFES sample 19/20. End transect BV46 to BS46.
14-May-10	10:04	69	2	BS46	NEU068	75	57 04.22 N	170 30.23 W	Neu	QTowF	
14-May-10	10:27	69	3	BS46	BON068	72	57 04.20 N	170 29.98 W	20Bon	QTowF	
14-May-10	10:27	69	3	BS46	BON068	72	57 04.20 N	170 29.98 W	60Bon	AMGEN, QTowF, RCountL	
14-May-10	10:27	69	3	BS46	BON068	72	57 04.20 N	170 29.98 W	60Bon	AMGEN, QTowF, RCountL	1 pollock removed from 60BON net 1.
14-May-10	10:27	69	3	BS46	BON068	72	57 04.20 N	170 29.98 W	CAT	CAT	
14-May-10	12:30	70	1	BP46		33	57 11.63 N	170 06.91 W	Trans	QTowF	CUFES sample 21/22. End transect BS46 to BP46. Transect is around St. Paul Island and not a straight line.
14-May-10	12:34	70	2	BP46	NEU069	29	57 11.57 N	170 07.02 W	Neu	QTowF	
14-May-10	12:53	70	3	BP46	BON069	28	57 11.46 N	170 07.06 W	20Bon	QTowF	
14-May-10	12:53	70	3	BP46	BON069	28	57 11.46 N	170 07.06 W	60Bon	AMGEN, QTowF, RCountL	
14-May-10	12:53	70	3	BP46	BON069	28	57 11.46 N	170 07.06 W	CAT	CAT	
14-May-10	16:10	71	1	BP43		68	57 00.52 N	169 56.39 W	Trans	QTowF	CUFES on transect from BP46 to BP43. Not a straight line transect.
14-May-10	16:27	71	2	BP43	NEU070	70	56 58.24 N	169 55.61 W	Neu	QTowF	
14-May-10	16:43	71	3	BP43	BON070	68	56 58.19 N	169 54.63 W	20Bon	QTowF	14 POSSIBLE POLLOCK OR ARCTIC COD REMOVED FROM 60BON NET 1

Cruise Summary For FOCI Cruise 2DY10 (DY10-04)

Date (GMT)	Time (GMT)	Station	Hau	FOCI Grid	Alternate Station	Depth (m)	Latitude	Longitude	Gear	Samples Collected	Haul Comments
14-May-10	16:43	71	3	BP43	BON070	68	56 58.19 N	169 54.63 W	60Bon	AMGEN, QTowF, RCountL	14 POSSIBLE POLLOCK OR ARCTIC COD REMOVED FROM 60BON NET 1
14-May-10	16:43	71	3	BP43	BON070	68	56 58.19 N	169 54.63 W	CAT	CAT	14 POSSIBLE POLLOCK OR ARCTIC COD REMOVED FROM 60BON NET 1
14-May-10	18:09	72	1	BS43		95	56 51.20 N	170 16.85 W	Trans	QTowF	
14-May-10	18:17	72	2	BS43	NEU071	95	56 51.23 N	170 17.80 W	Neu	QTowF	
14-May-10	18:42	72	3	BS43	BON071	94	56 51.14 N	170 17.28 W	20Bon	QTowF	
14-May-10	18:42	72	3	BS43	BON071	94	56 51.14 N	170 17.28 W	60Bon	AMGEN, QTowF, RCountL, RH	
14-May-10	18:42	72	3	BS43	BON071	94	56 51.14 N	170 17.28 W	CAT	CAT	
14-May-10	19:43	73	1	BV43		108	56 45.79 N	170 32.95 W	Trans	QTowF	END CUFES TRANSECT FROM BS43 TO BV43. SAMPLE #27. FLOW INTO CUP
WAS											
14-May-10	20:07	73	2	BV43	NEU072	110	56 44.28 N	170 39.13 W	Neu	QTowF	LOW
14-May-10	20:23	73	3	BV43	BON072	110	56 43.77 N	170 39.14 W	20Bon		
14-May-10	20:23	73	3	BV43	BON072	110	56 43.77 N	170 39.14 W	60Bon		
14-May-10	20:23	73	3	BV43	BON072	110	56 43.77 N	170 39.14 W	CAT		
14-May-10	21:53	74	1	BY43		119	56 36.89 N	171 00.02 W	Trans	QTowF	END CUFES TRANSIT FROM BV43 TO BY43.
14-May-10	22:01	74	2	BY43	NEU073	120	56 36.73 N	171 02.81 W	Neu	QTowF	
14-May-10	22:17	74	3	BY43	BON073	120	56 36.36 N	171 02.44 W	20Bon	QTowF	
14-May-10	22:17	74	3	BY43	BON073	120	56 36.36 N	171 02.44 W	60Bon	AMGEN, QTowF, RCountL, SPFCM	
14-May-10	22:17	74	3	BY43	BON073	120	56 36.36 N	171 02.44 W	CAT	CAT	
14-May-10	23:43	75	1	BY40		122	56 24.40 N	170 50.46 W	Trans	QTowF	END CUFES TRANSIT FROM BY43 TO BY40
14-May-10	23:51	75	2	BY10	NEU074	123	56 23.72 N	170 49.84 W	Neu	QTowF	
15-May-10	0:18	75	3	BY40	BON074	123	56 23.33 N	170 49.55 W	20Bon	QTowF	
15-May-10	0:18	75	3	BY40	BON074	123	56 23.33 N	170 49.55 W	60Bon	AMGEN, QTowF, RCountL	GEAR HUNG AT BOTTOM FOR APPROX. 1 MINUTE
15-May-10	0:18	75	3	BY40	BON074	123	56 23.33 N	170 49.55 W	CAT	CAT	
15-May-10	1:54	76	1	BV40		114	56 30.82 N	170 26.24 W	Trans	QTowF	END CUFES TRANSECT FROM BY40 TO BV40
BV40											
15-May-10	1:51	76	2	BV40	NEU075	114	56 30.90 N	170 26.40 W	Neu	QTowF	
15-May-10	2:14	76	3	BV40	BON075	113	56 30.81 N	170 26.07 W	20Bon	QTowF	
15-May-10	2:14	76	3	BV40	BON075	113	56 30.81 N	170 26.07 W	60Bon	AMGEN, QTowF, RCountL	
15-May-10	2:14	76	3	BV40	BON075	113	56 30.81 N	170 26.07 W	CAT	CAT	
15-May-10	3:41	77	1	BS40		98	56 37.97 N	170 04.68 W	Trans	QTowF	End CUFES transect from BV40 to BS40
15-May-10	3:43	77	2	BS40	NEU076	99	56 38.01 N	170 04.56 W	Neu	QTowF	
15-May-10	4:05	77	3	BS40	BON076	99	56 37.98 N	170 03.98 W	20Bon	QTowF	1 scyphomedusa each; nets 1 and 2 60Bon
15-May-10	4:05	77	3	BS40	BON076	99	56 37.98 N	170 03.98 W	60Bon	AMGEN, QTowF, RCountL	1 scyphomedusa each; nets 1 and 2 60Bon
15-May-10	4:05	77	3	BS40	BON076	99	56 37.98 N	170 03.98 W	CAT	CAT	1 scyphomedusa each; nets 1 and 2 60Bon

Cruise Summary For FOCI Cruise 2DY10 (DY10-04)

Date (GMT)	Time (GMT)	Station	Hau	FOCI Grid	Alternate Station	Depth (m)	Latitude	Longitude	Gear	SamplesCollected	HaulComments
15-May-10	5:21	78	1	BP40		79	56 44.56 N	169 43.78 W	Trans	QTowF	END CUFES TRANSIT FROM BS40 TO BP40
15-May-10	5:33	78	2	BP40	NEU077	79	56 44.98 N	169 41.92 W	Neu	QTowF	
15-May-10	5:57	78	3	BP40	BON077	79	56 44.97 N	169 41.87 W	20Bon	QTowF	
15-May-10	5:57	78	3	BP40	BON077	79	56 44.97 N	169 41.87 W	60Bon	QTowF, RCountL	
15-May-10	5:57	78	3	BP40	BON077	79	56 44.97 N	169 41.87 W	CAT	CAT	
15-May-10	10:21	79	1			71	56 30.10 N	169 34.60 W	Trans	QTowF	END CUFES TRANSIT FROM BP40 TO STN 79.
15-May-10	10:27	79	2		BON078	71	56 30.14 N	169 34.37 W	20Bon	QTowF	NOT A STRAIGHT LINE. STN. BP37 UNDER ICE. THIS STATION
15-May-10	10:27	79	2		BON078	71	56 30.14 N	169 34.37 W	60Bon	AMGEN, QTowF, RCountL	AS CLOSE AS POSSIBLE TO BP37. 60BON NET 1 AND 20BON HAD LOW FLOW AND CONTAINED BROWN ALGAE. PLUGGING. ONE POLLOCK REMOVED 60BON NET 1. STN. BP37 UNDER ICE. THIS STATION
15-May-10	10:27	79	2		BON078	71	56 30.14 N	169 34.37 W	CAT	CAT	AS CLOSE AS POSSIBLE TO BP37. 60BON NET 1 AND 20BON HAD LOW FLOW AND CONTAINED BROWN ALGAE. PLUGGING. ONE POLLOCK REMOVED 60BON NET 1. STN. BP37 UNDER ICE. THIS STATION
15-May-10	10:27	79	2		BON078	71	56 30.14 N	169 34.37 W	CAT	CAT	AS CLOSE AS POSSIBLE TO BP37. 60BON NET 1 AND 20BON HAD LOW FLOW AND CONTAINED BROWN ALGAE. PLUGGING. ONE POLLOCK REMOVED 60BON NET 1. STN. BP37 UNDER ICE. THIS STATION
15-May-10	11:45	80	1	BS37		99	56 25.17 N	169 49.88 W	Trans	QTowF	60BON NET 1. CUFES DURING TRANSECT FROM STN 79
15-May-10	11:55	80	2	BS37	NEU078	99	56 24.55 N	169 51.43 W	Neu	QTowF	BS37.
15-May-10	12:18	80	3	BS37	BON079	99	56 24.68 N	169 51.18 W	20Bon	QTowF	60BON NET 1 AND BOTH 20BONS CONTAINED BROWN ALGAE AND HAD LOW FLOW COUNTS COMPARED TO 60BON NET
15-May-10	12:18	80	3	BS37	BON079	99	56 24.68 N	169 51.18 W	60Bon	AMGEN, QTowF, RCountL	ONE POLLOCK REMOVED FROM 60BON NET
15-May-10	12:18	80	3	BS37	BON079	99	56 24.68 N	169 51.18 W	60Bon	AMGEN, QTowF, RCountL	1. 60BON NET 1 AND BOTH 20BONS CONTAINED BROWN ALGAE AND HAD LOW FLOW COUNTS COMPARED TO 60BON NET

2.

NET

15-May-10	12:18	80	3	BS37	BON079	99	56 24.68 N	169 51.18 W	CAT	CAT
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2.

NET

15-May-10	13:41	81	1	BV37		114	56 18.01 N	170 11.72 W	Trans	QTowF
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15-May-10	13:55	81	2	BV37	NEU079	115	56 17.23 N	170 13.74 W	Neu	QTowF
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Tuesday, June 08, 2010

ONE POLLOCK REMOVED FROM 60BON

1.

60BON NET 1 AND BOTH 20BONS
CONTAINED BROWN ALGAE AND HAD LOW
FLOW COUNTS COMPARED TO 60BON NET

ONE POLLOCK REMOVED FROM 60BON

1.

CUFES DURING TRANSECT FROM BS37 TO
BV37.

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Cruise Summary For FOCI Cruise 2DY10 (DY10-04)

Date (GMT)	Time (GMT)	Station	Hau	FOCI Grid	Alternate Station	Depth (m)	Latitude	Longitude	Gear	Samples Collected	Haul Comments
15-May-10	14:12	81	3	BV37	BON080	114	56 17.53 N	170 13.14 W	20Bon	QTowF	ONE POLLOCK REMOVED FROM 60BON NET
											1. 60BON NET 1 QUESTIONABLE DUE TO LOW FLOWMETER COUNT. JELLYFISH TENTACLES FOUND ON FLOWMETER.
15-May-10	14:12	81	3	BV37	BON080	114	56 17.53 N	170 13.14 W	60Bon	AMGEN, QTowF, RCountL	ONE POLLOCK REMOVED FROM 60BON NET
											1. 60BON NET 1 QUESTIONABLE DUE TO LOW FLOWMETER COUNT. JELLYFISH TENTACLES FOUND ON FLOWMETER.
15-May-10	14:12	81	3	BV37	BON080	114	56 17.53 N	170 13.14 W	CAT	CAT	ONE POLLOCK REMOVED FROM 60BON NET
											1. 60BON NET 1 QUESTIONABLE DUE TO LOW FLOWMETER COUNT. JELLYFISH TENTACLES FOUND ON FLOWMETER.
15-May-10	15:31	82	1	BY37		132	56 11.15 N	170 32.36 W	Trans	QTowF	CUFES DURING TRANSECT BETWEEN BV37 AND BY37
15-May-10	15:49	82	2	BY37	NEU080	139	56 10.04 N	170 35.47 W	Neu	QTowF	
15-May-10	16:06	82	3	BY37	BON081	134	56 16.49 N	170 35.30 W	20Bon	QTowF	BROWN ALGAE IN 60BON NET 1 AND LOW FLOW COUNT. MODERATE SIGN IN ECHOSOUNDER.
15-May-10	16:06	82	3	BY37	BON081	134	56 16.49 N	170 35.30 W	60Bon	AMGEN, QTowF, RCountL	BROWN ALGAE IN 60BON NET 1 AND LOW FLOW COUNT. MODERATE SIGN IN ECHOSOUNDER.
15-May-10	16:06	82	3	BY37	BON081	134	56 16.49 N	170 35.30 W	CAT	CAT	BROWN ALGAE IN 60BON NET 1 AND LOW FLOW COUNT. MODERATE SIGN IN ECHOSOUNDER.
15-May-10	17:35	83	1	BY34		888	55 58.18 N	170 23.68 W	Trans	QTowF	CUFES during transect from BV37 to BY37
15-May-10	17:50	83	2	BY34	NEU081	888	55 56.79 N	170 22.38 W	Neu	QTowF	
15-May-10	18:27	83	3	BY34	BON082	913	55 57.10 N	170 22.79 W	20Bon	QTowF	60Bon Net2 - flowmeter spining in the wind. 60Bon Net 1 and 20Bon nets low flow counts and full of brown algae
15-May-10	18:27	83	3	BY34	BON082	913	55 57.10 N	170 22.79 W	60Bon	AMGEN, QTowF, RCountL	60Bon Net2 - flowmeter spining in the wind. 60Bon Net 1 and 20Bon nets low flow counts and full of brown algae
15-May-10	18:27	83	3	BY34	BON082	913	55 57.10 N	170 22.79 W	CAT	CAT	60Bon Net2 - flowmeter spining in the wind. 60Bon Net 1 and 20Bon nets low flow counts and full of brown algae
15-May-10	20:02	84	1	BV34		125	56 03.20 N	170 02.68 W	Trans	QTowF	CUFES during transect from BY34 to BV34
15-May-10	20:21	84	2	BV34	NEU082	126	56 03.95 N	170 00.58 W	Neu	QTowF	
15-May-10	20:48	84	3	BV34	BON083	126	56 04.19 N	170 00.35 W	20Bon	QTowF	
15-May-10	20:48	84	3	BV34	BON083	126	56 04.19 N	170 00.35 W	60Bon	AMGEN, QTowF, RCountL, SPFCM	
15-May-10	20:48	84	3	BV34	BON083	126	56 04.19 N	170 00.35 W	CAT	CAT	
15-May-10	22:12	85	1	BS34		374	56 05.28 N	169 58.31 W	Trans	QTowF	CUFES during transect from BV34 to BS34
15-May-10	22:22	85	2	BS34	NEU083	374	56 10.89 N	169 38.45 W	Neu	QTowF	

Cruise Summary For FOCI Cruise 2DY10 (DY10-04)

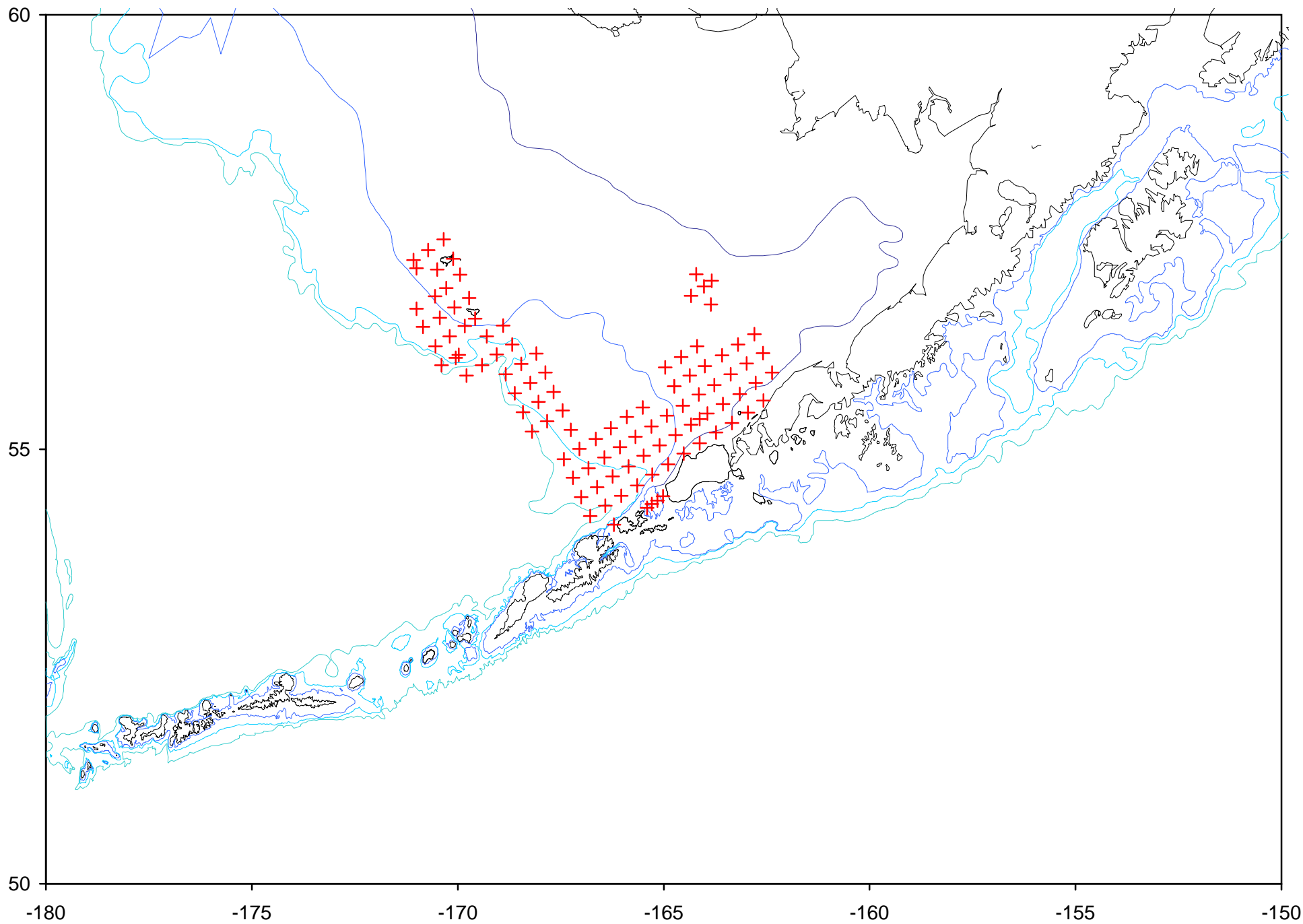
Date (GMT)	Time (GMT)	Station	Hau	FOCI Grid	Alternate Station	Depth (m)	Latitude	Longitude	Gear	SamplesCollected	HaulComments
15-May-10	22:55	85	3	BS34	BON084	368	56 11.32 N	169 38.46 W	20Bon	QTowF	
15-May-10	22:55	85	3	BS34	BON084	368	56 11.32 N	169 38.46 W	60Bon	AMGEN, QTowF, RCountL	
15-May-10	22:55	85	3	BS34	BON084	368	56 11.32 N	169 38.46 W	CAT	CAT	
16-May-10	0:34	86	1	BP34		163	56 18.02 N	169 17.57 W	Trans	QTowF	CUFES transect from BS34 to BP34
16-May-10	0:41	86	2	BP34	NEU084	163	56 18.14 N	169 16.38 W	Neu	QTowF	
16-May-10	1:08	86	3	BP34	BON085	154	56 18.50 N	169 16.24 W	20Bon	QTowF	
16-May-10	1:08	86	3	BP34	BON085	154	56 18.50 N	169 16.24 W	60Bon	AMGEN, QTowF, RCountL	
16-May-10	1:08	86	3	BP34	BON085	154	56 18.50 N	169 16.24 W	CAT	CAT	
16-May-10	2:43	87	1	BM34	NEU085	115	56 25.50 N	168 53.72 W	Neu	QTowF	
16-May-10	3:08	87	2	BM34	BON086	113	56 25.82 N	168 53.92 W	20Bon	QTowF	1 jelly in 60Bon Net 1
16-May-10	3:08	87	2	BM34	BON086	113	56 25.82 N	168 53.92 W	60Bon	AMGEN, QTowF, RCountL	1 jelly in 60Bon Net 1
16-May-10	3:08	87	2	BM34	BON086	113	56 25.82 N	168 53.92 W	CAT	CAT	1 jelly in 60Bon Net 1
16-May-10	4:53	88	1	BM31	NEU086	210	56 12.43 N	168 40.83 W	Neu	QTowF	
16-May-10	5:23	88	2	BM31	BON087	208	56 12.59 N	168 40.90 W	20Bon	QTowF	
16-May-10	5:23	88	2	BM31	BON087	208	56 12.59 N	168 40.90 W	60Bon	AMGEN, QTowF, RCountL, SPFCM	
16-May-10	5:23	88	2	BM31	BON087	208	56 12.59 N	168 40.90 W	CAT	CAT	
16-May-10	7:23	89	1	BP31	CTD018	1223	56 05.34 N	169 03.40 W	CTD	CTD, Fluor, PAR	
16-May-10	7:44	89	2	BP31	NEU087	1263	56 05.12 N	169 03.47 W	Neu	QTowF	
16-May-10	8:18	89	3	BP31	BON088	1229	56 05.22 N	169 03.14 W	20Bon	QTowF	
16-May-10	8:18	89	3	BP31	BON088	1229	56 05.22 N	169 03.14 W	60Bon	AMGEN, QTowF, RCountL	
16-May-10	8:18	89	3	BP31	BON088	1229	56 05.22 N	169 03.14 W	60Bon	AMGEN, QTowF, RCountL	3 pollock removed from 60bon net 1.
16-May-10	8:18	89	3	BP31	BON088	1229	56 05.22 N	169 03.14 W	CAT	CAT	
16-May-10	10:02	90	1	BS31	NEU088	1350	55 58.14 N	169 24.91 W	Neu	QTowF	
16-May-10	10:36	90	2	BS31	BON089	1636	55 58.08 N	169 25.44 W	20Bon	QTowF	moderate sign on echosounder.
16-May-10	10:36	90	2	BS31	BON089	1636	55 58.08 N	169 25.44 W	60Bon	AMGEN, QTowF, RCountL	moderate sign on echosounder.
16-May-10	10:36	90	2	BS31	BON089	1636	55 58.08 N	169 25.44 W	CAT	CAT	moderate sign on echosounder.
16-May-10	12:19	91	1	BV31	NEU089	1717	55 50.88 N	169 47.39 W	Neu	QTowF	
16-May-10	12:52	91	2	BV31	BON090	1738	55 51.00 N	169 47.82 W	20Bon	QTowF	2 pollock removed from 60bon net 1.
16-May-10	12:52	91	2	BV31	BON090	1738	55 51.00 N	169 47.82 W	60Bon	AMGEN, QTowF, RCountL	2 pollock removed from 60bon net 1.
16-May-10	12:52	91	2	BV31	BON090	1738	55 51.00 N	169 47.82 W	CAT	CAT	2 pollock removed from 60bon net 1.
16-May-10	16:25	92	1	BP28	NEU090	153	55 51.75 N	168 50.06 W	Neu	QTowF	
16-May-10	16:44	92	2	BP28	BON091	156	55 52.31 N	168 50.63 W	20Bon	QTowF	
16-May-10	16:44	92	2	BP28	BON091	156	55 52.31 N	168 50.63 W	60Bon	AMGEN, QTowF, RCountL	
16-May-10	16:44	92	2	BP28	BON091	156	55 52.31 N	168 50.63 W	CAT	CAT	
16-May-10	18:26	93	1	BM28	NEU091	190	55 59.04 N	168 27.68 W	Neu	QTowF	
16-May-10	19:00	93	2	BM28	BON092	194	55 59.11 N	168 27.76 W	20Bon	QTowF	
16-May-10	19:00	93	2	BM28	BON092	194	55 59.11 N	168 27.76 W	60Bon	AMGEN, QTowF, RCountL	
16-May-10	19:00	93	2	BM28	BON092	194	55 59.11 N	168 27.76 W	CAT	CAT	
16-May-10	20:43	94	1	BJ28	NEU092	143	56 06.07 N	168 05.28 W	Neu	QTowF	

Cruise Summary For FOCI Cruise 2DY10 (DY10-04)

Date (GMT)	Time (GMT)	Station	Hau	FOCI Grid	Alternate Station	Depth (m)	Latitude	Longitude	Gear	SamplesCollected	HaulComments
16-May-10	21:07	94	2	BJ28	BON093	144	56 06.44 N	168 05.30 W	20Bon	QTowF	
16-May-10	21:07	94	2	BJ28	BON093	144	56 06.44 N	168 05.30 W	60Bon	QTowF, RCountL	
16-May-10	21:07	94	2	BJ28	BON093	144	56 06.44 N	168 05.30 W	CAT	CAT	
16-May-10	22:42	95	1	BJ25	NEU093	133	55 52.90 N	167 52.38 W	Neu	QTowF	
16-May-10	23:18	95	2	BJ25	BON094	134	55 53.28 N	167 52.47 W	20Bon	QTowF	
16-May-10	23:18	95	2	BJ25	BON094	134	55 53.28 N	167 52.47 W	60Bon	AMGEN, QTowF, RCountL	
16-May-10	23:18	95	2	BJ25	BON094	134	55 53.28 N	167 52.47 W	CAT	CAT	
17-May-10	0:46	96	1	BM25	NEU094	137	55 45.94 N	168 14.40 W	Neu	QTowF	
17-May-10	1:03	96	2	BM25	BON095	137	55 45.98 N	168 14.82 W	20Bon	QTowF	
17-May-10	1:03	96	2	BM25	BON095	137	55 45.98 N	168 14.82 W	60Bon	QTowF, RCountL	
17-May-10	1:03	96	2	BM25	BON095	137	55 45.98 N	168 14.82 W	CAT	CAT	
17-May-10	2:45	97	1	BP25	NEU095	154	55 38.80 N	168 36.94 W	Neu	QTowF	
17-May-10	3:11	97	2	BP25	BON096	158	55 38.82 N	168 37.54 W	20Bon	QTowF	
17-May-10	3:11	97	2	BP25	BON096	158	55 38.82 N	168 37.54 W	60Bon	AMGEN, QTowF, RCountL	
17-May-10	3:11	97	2	BP25	BON096	158	55 38.82 N	168 37.54 W	CAT	CAT	
17-May-10	4:44	98	1	BP22	NEU096	990	55 25.59 N	168 24.80 W	Neu	QTowF	
17-May-10	5:26	98	2	BP22	BON097	983	55 25.63 N	168 24.76 W	20Bon	QTowF	
17-May-10	5:26	98	2	BP22	BON097	983	55 25.63 N	168 24.76 W	60Bon	AMGEN, QTowF, RCountL	
17-May-10	5:26	98	2	BP22	BON097	983	55 25.63 N	168 24.76 W	60Bon	AMGEN, QTowF, RCountL	2 POLLOCK REMOVED FROM 60BON NET 1
17-May-10	5:26	98	2	BP22	BON097	983	55 25.63 N	168 24.76 W	CAT	CAT	
17-May-10	7:16	99	1	BP19	NEU097	1356	55 12.28 N	168 11.95 W	Neu	QTowF	
17-May-10	7:47	99	2	BP19	BON098	1371	55 12.49 N	168 12.15 W	20Bon	QTowF	1 POLLOCK REMOVED FROM 60BON NET 1.
17-May-10	7:47	99	2	BP19	BON098	1371	55 12.49 N	168 12.15 W	60Bon	AMGEN, QTowF, RCountL, SPFCM	1 POLLOCK REMOVED FROM 60BON NET 1.
17-May-10	7:47	99	2	BP19	BON098	1371	55 12.49 N	168 12.15 W	CAT	CAT	1 POLLOCK REMOVED FROM 60BON NET 1.
17-May-10	9:40	100	1	BM19	NEU098	208	55 19.46 N	167 49.71 W	Neu	QTowF	
17-May-10	10:06	100	2	BM19	BON099	205	55 19.62 N	167 49.76 W	20Bon	QTowF	
17-May-10	10:06	100	2	BM19	BON099	205	55 19.62 N	167 49.76 W	60Bon	AMGEN, QTowF, RCountL	
17-May-10	10:06	100	2	BM19	BON099	205	55 19.62 N	167 49.76 W	CAT	CAT	
17-May-10	11:47	101	1	BM22	NEU099	140	55 32.76 N	168 02.28 W	Neu	QTowF	
17-May-10	12:11	101	2	BM22	BON100	140	55 32.89 N	168 02.52 W	20Bon	QTowF	
17-May-10	12:11	101	2	BM22	BON100	140	55 32.89 N	168 02.52 W	60Bon	AMGEN, QTowF, RCountL	
17-May-10	12:11	101	2	BM22	BON100	140	55 32.89 N	168 02.52 W	CAT	CAT	
17-May-10	13:55	102	1	BJ22	NEU100	136	55 39.69 N	167 40.32 W	Neu	QTowF	
17-May-10	14:13	102	2	BJ22	BON101	136	55 40.14 N	167 40.03 W	20Bon	QTowF	
17-May-10	14:13	102	2	BJ22	BON101	136	55 40.14 N	167 40.03 W	60Bon	AMGEN, QTowF, RCountL	
17-May-10	14:13	102	2	BJ22	BON101	136	55 40.14 N	167 40.03 W	CAT	CAT	

Cruise Summary For FOCI Cruise 2DY10 (DY10-04)

Date (GMT)	Time (GMT)	Station	Hau	FOCI Grid	Alternate Station	Depth (m)	Latitude	Longitude	Gear	SamplesCollected	HaulComments
17-May-10	15:53	103	1	BJ19	NEU101	140	55 26.65 N	167 27.19 W	Neu	QTowF	
17-May-10	16:11	103	2	BJ19	BON102	140	55 27.32 N	167 26.94 W	20Bon	QTowF	
17-May-10	16:11	103	2	BJ19	BON102	140	55 27.32 N	167 26.94 W	60Bon	AMGEN, QTowF, RCountL	
17-May-10	16:11	103	2	BJ19	BON102	140	55 27.32 N	167 26.94 W	CAT	CAT	
17-May-10	17:56	104	1	BJ16	NEU102	150	55 13.52 N	167 15.00 W	Neu	QTowF	
17-May-10	18:24	104	2	BJ16	BON103	149	55 13.57 N	167 14.66 W	20Bon	QTowF	
17-May-10	18:24	104	2	BJ16	BON103	149	55 13.57 N	167 14.66 W	60Bon	AMGEN, QTowF, RCountL	
17-May-10	18:24	104	2	BJ16	BON103	149	55 13.57 N	167 14.66 W	CAT	CAT	
18-May-10	4:08	105	1	AR13		97	55 43.47 N	164 44.65 W	SatBuoy	Deploy	Satellite Buoy #50797



2DY10 Stations