



HOKKAIDO UNIVERSITY

Title	5.THE "USHIO MARU" CRUISE 151,152 AND 153 IN JULY-AUGUST 2008
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THE “USHIO MARU”

CRUISE 151
CRUISE 152
CRUISE 153

IN JULY-AUGUST 2008

1. Cruise Itinerary

Cruise 151			
Departure from Hakodate	Jul.	7	, 2008
Arrival at and departure from Usujiri		7	
Start hydrographic research (US08270) and larvae net sampling		7	
Start frame trawl net sampling		7	
Arrival at Usujiri		7	
Departure from Usujiri		8	
Arrival at Shiraoi		8	
Departure from Shiraoi		9	
Arrival at Usujiri		10	
Departure from Usujiri		11	
Arrival at Muroran		11	
Departure from Muroran		12	
Arrival at and departure from Muroran		13	
Arrival at Usujiri		13	
Departure from Usujiri		14	
Finish frame trawl net sampling		15	
Arrival at Usujiri		15	
Departure from Usujiri		17	
Arrival at Usujiri		17	
Departure from Usujiri		18	
Research by trawl net and mid water trawl net		18	
Finish hydrographic research (US08303) and larvae net sampling		18	
Arrival at and departure from Usujiri		18	
Return to Hakodate		19	
Total coverage 809.3 miles			
Cruise 152			
Departure from Hakodate	Jul.	24	, 2008
Arrival at Otaru		25	
Departure from Otaru		26	
Start hydrographic research (US08304) and larvae net sampling		26	
Arrival at Rausu		30	
Departure from Rausu		31	
Finish hydrographic research (US08377) and larvae net sampling	Aug.	1	
Arrival at Shiraoi		2	
Departure from Shiraoi		3	
Return to Hakodate		4	
Total coverage 1247.8 miles			
Cruise 153			
Departure from Hakodate	Aug.	18	, 2008
Experiment of X.B.T.		18	
Start hydrographic research (US08378)		18	
Arrival at Usujiri		18	
Departure from Usujiri		19	
Arrival at Muroran		19	
Departure from Muroran		20	
Start larvae net sampling		20	
Arrival at Muroran		20	
Departure from Muroran		21	
Retrieval Sediment trap system		21	
Arrival at and departure from Mori		21	
Start trawl net research		21	
Finish trawl net research		22	
Finish hydrographic research (US08391) and larvae net sampling		22	
Arrival at and departure from Mori		22	
Set Sediment trap system		22	
Return to Hakodate		26	
Total coverage 341.4 miles			

2. Vessel Personnel

Captain:		Associate Professor	Hidekazu Yamaguchi
Crew :	Chief Officer	Assistant Professor	Osamu Kimura
	Second Officer	Assistant Professor	Naoto Kobayashi
	And 13 men		
Cruise 151			
Research Staff :	Associate Professor	(Laboratory of Marine Bioresource Science)	
			Toshikuni Nakatani
	Associate Professor	(Laboratory of Marine Environmental Science)	
			Isao Kudo
	Associate Professor	(Laboratory of Marine Bioresource and Environment Sensing)	
			Tohru Mukai
	Research Associate	(Field Science Center for Northern Biosphere)	
			Hiroki Yasuma
Graduate Students :	Chair of of Marine Bioresource Science :		4 persons
	Chair of Marine Bioresource and Environment Sensing :		3 persons
	Graduate School of the Fisheries Sciences :		1 person
	Graduate School of Environmental Science :		6 persons
Under Graduate Students :	Department of Marine Biological Science :		4 persons
	Department of Fisheries Oceanography and Marine Science :		2 persons
	Department of Marine Production System Science :		6 persons
Cruise 152			
Research Staff :	Professor	(Laboratory of Marine Environmental Science)	
			Shigeru Montani
	Associate Professor	(Laboratory of Marine Environmental Science)	
			Isao Kudo
	Associate Professor	(Laboratory of Marine Environmental Science)	
			Yutaka Isoda
Graduate Students :	Chair of Marine Environmental Science :		2 persons
	Graduate School of Environmental Science :		7 persons
Under Graduate Students :	Department of Fisheries Oceanography and Marine Science :		5 persons
Cruise 153			
Research Staff :	Professor	(Laboratory of Marine Bioresource Science)	
			Toyomi Takahashi
	Associate Professor	(Laboratory of Marine Industrial Science and Technology)	
			Shynji Jiyanuma
	Associate Professor	(Laboratory of Marine Environmental Science)	
			Isao Kudo
	Assistant Professor	(Laboratory of Marine Environmental Science)	
			Hiroji Ohnishi
	Technician	(Field Science Center for Northern Biosphere)	
			Shinichi Fukui
	Visiting Associate Professor	(Faculty of the Fisheries Sciences)	
			Koutaro Tetsumura
	Visiting Researcher	(Faculty of the Fisheries Sciences)	
			Nariyuki Mohnai
	Research Associate	(Field Science Center for Northern Biosphere)	
			Toshihiro Iwamori
Graduate Students :	Chair of of Marine Bioresource Science :		4 persons
	Chair of Marine Environmental Science :		2 persons
	Graduate School of Environmental Science :		4 persons
Under Graduate Students :	Department of Marine Biological Science :		4 persons
	Department of Fisheries Oceanography and Marine Science :		4 persons
	Department of Marine Production System Science :		2 persons

3. Data on Temperature, Salinity, and Computed Dynamic Depth Anomaly

Hydrographic work on deck and the data processing were made by the deck officers, crews, research staff and cadets of the “Ushio Maru”.

Temperature and salinity were measured by CTD (Seabird SBE9Plus and SBE-19).

Dynamic computations were made using a desk-top computer aboard the “Ushio Maru”.

Figure 1: Oceanographic stations (Cruise 151)

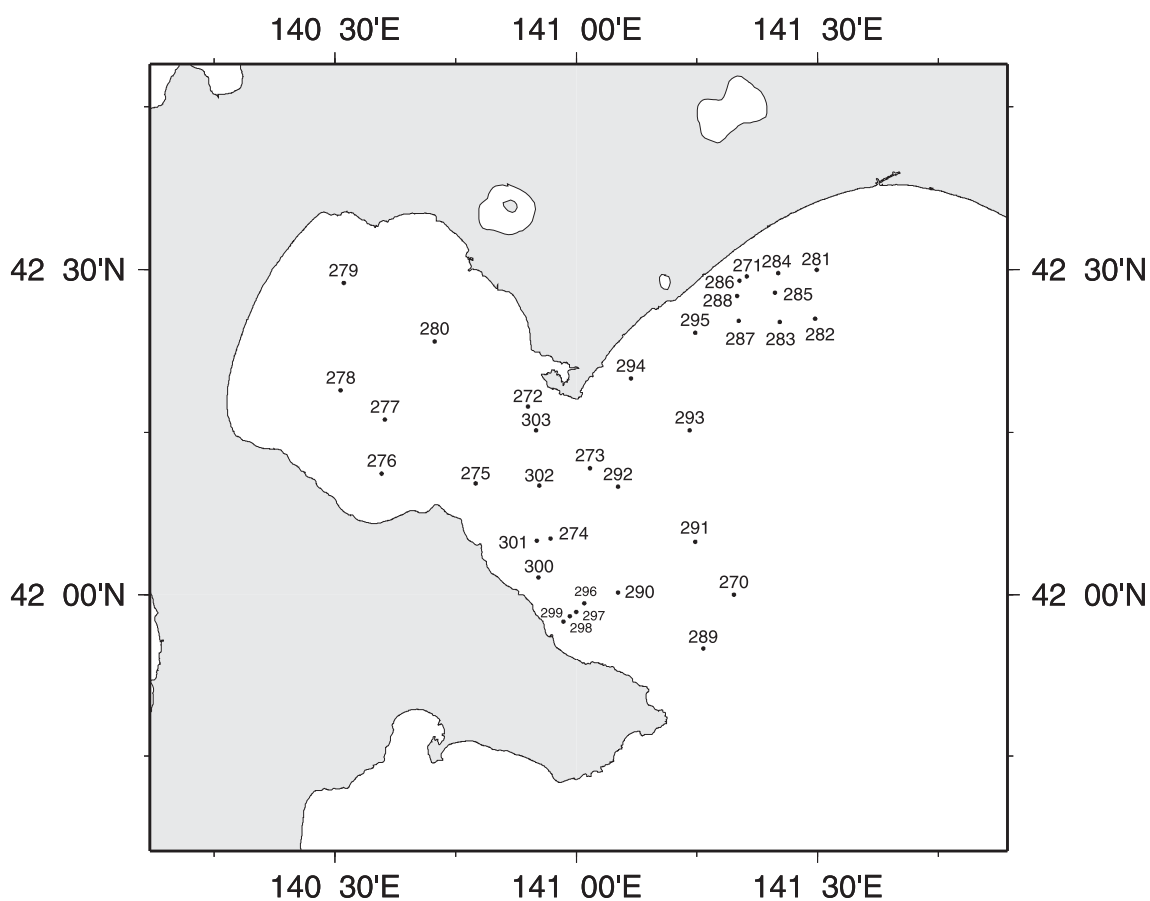


Figure 2: Oceanographic stations (Cruise 152)

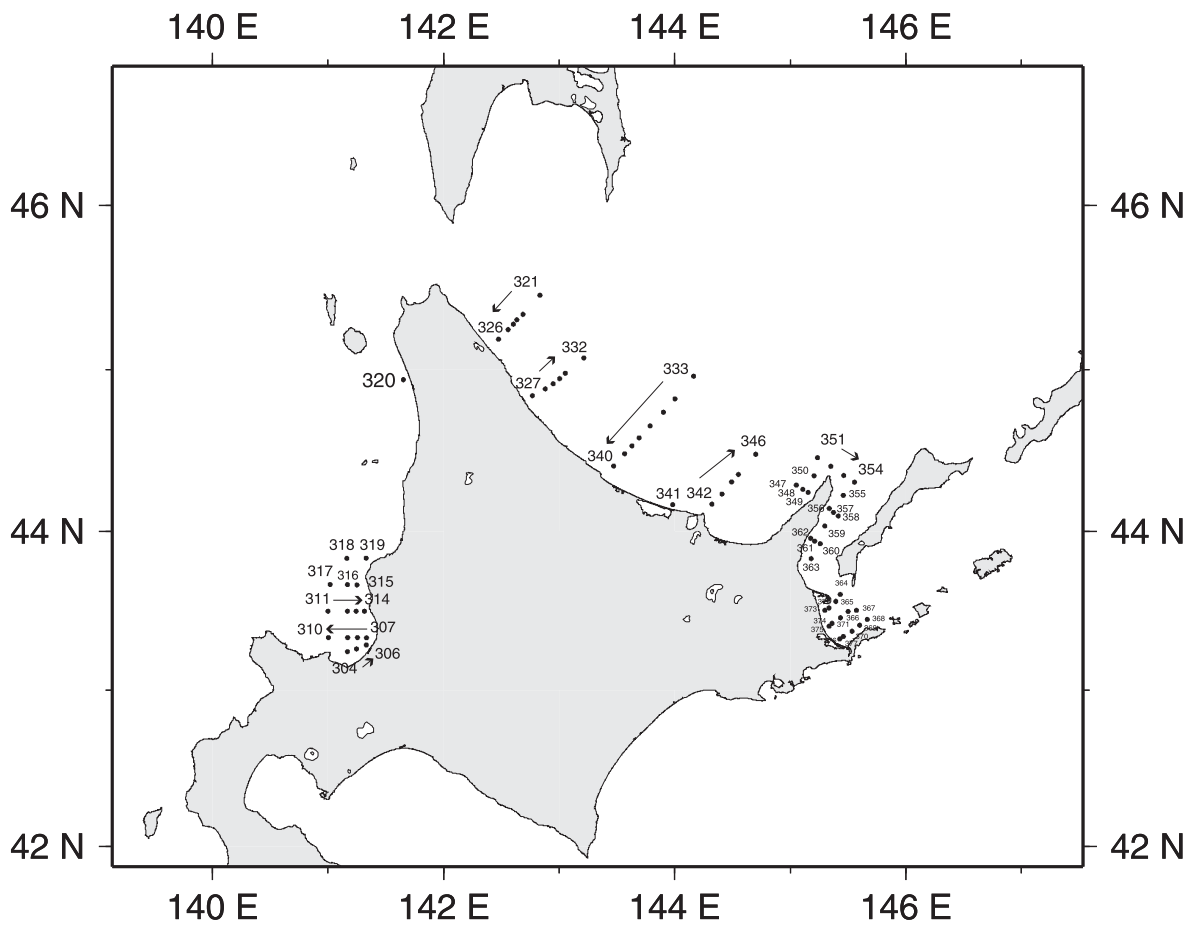


Figure 3: Oceanographic stations (Cruise 153)

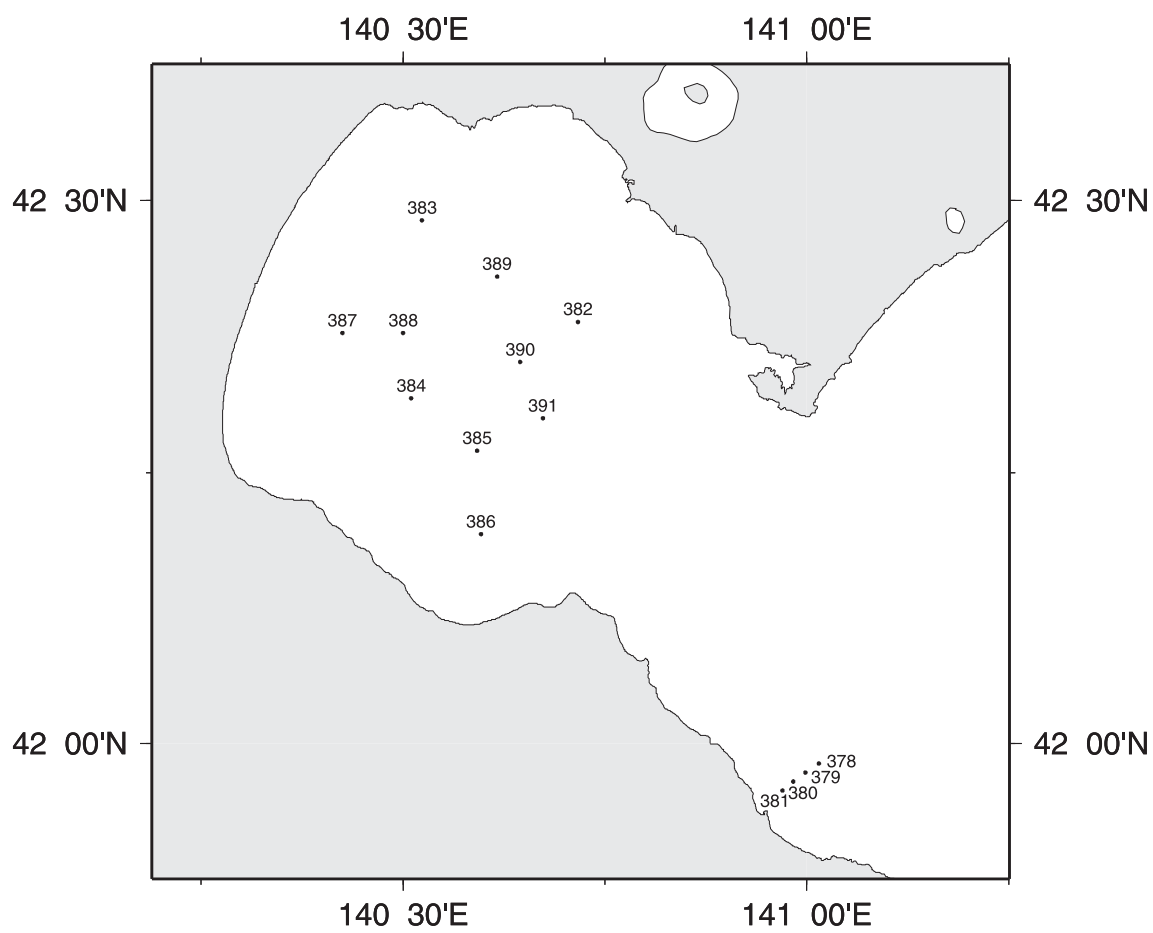


Table 1: List of oceanographic stations

Cruise 151

Station	Lat. (N)*	Long. (E)*	Date	S.M.T.	Depth	Wave	Swell	Wind	Air Temp.	Sea Temp.	Wr. Bar. (hPa)
US08270	42-00.0	141-19.6	7/7	1728-1740	308	East-1	East-1	East-3	16.5	16.5	o 1012.2
US08271	42-29.4	141-21.2	7/9	0722-0726	63	Calm	SSE-1	Calm	17.0	15.8	o 1015.1
US08272	42-17.4	140-54.0	7/12	0740-0745	57	WNW-1	West-1	WNW-3	18.9	18.6	bc 1004.1
US08273	42-11.7	141-01.7	7/12	0836-0843	78	West-2	SE -1	West-4	19.2	17.4	bc 1004.1
US08274	42-05.2	140-56.8	7/12	0930-0936	84	WNW-2	SE -1	WNW-4	18.8	17.2	bc 1004.1
US08275	42-10.3	140-47.5	7/12	1029-1037	92	WNW-2	SE -1	WNW-4	20.5	18.4	bc 1004.1
US08276	42-11.2	140-35.8	7/12	1133-1140	81	NW -1	NW -1	NW -2	21.0	18.8	bc 1004.5
US08277	42-16.2	140-36.2	7/12	1216-1222	91	NNW-2	SE -1	NNW-4	21.2	18.3	bc 1004.4
US08278	42-18.9	140-30.7	7/12	1415-1422	93	NNW-2	NNW-1	NNW-4	20.4	18.3	bc 1004.1
US08279	42-28.8	140-31.1	7/13	0630-0640	76	Calm	SE -1	Calm	19.4	17.7	bc 1008.5
US08280	42-23.4	140-42.4	7/13	0842-0848	63	Calm	SE -1	Calm	20.0	19.0	bc 1008.6
US08281	42-30.0	141-29.9	7/14	1131-1135	75	Calm	ESE-1	Calm	19.1	16.8	c 1009.1
US08282	42-25.5	141-29.7	7/14	1208-1213	116	Calm	ESE-1	Calm	19.0	15.8	o 1009.1
US08283	42-25.2	141-25.3	7/14	1240-1245	103	Calm	ESE-1	Calm	18.6	16.9	o 1009.0
US08284	42-29.7	141-25.1	7/14	1320-1324	77	Calm	ESE-1	Calm	19.1	17.1	c 1008.7
US08285	42-27.9	141-24.7	7/14	1357-1401	86	Calm	ESE-1	Calm	19.2	16.8	r 1008.6
US08286	42-29.0	141-20.3	7/14	1429-1432	61	Calm	ESE-1	Calm	19.5	17.6	c 1008.7
US08287	42-25.3	141-20.2	7/14	1500-1504	91	West-1	ESE-1	West-3	18.6	16.8	c 1008.6
US08288	42-27.6	141-20.0	7/14	1605-1608	75	WSW-1	ESE-1	WSW-2	18.8	17.1	c 1009.0
US08289	41-55.0	141-15.8	7/15	0500-0511	261	WNW-1	SE -1	WNW-3	18.2	16.6	bc 1010.8
US08290	42-00.2	141-05.2	7/15	0620-0635	116	NNW-1	SE -1	NNW-3	18.1	17.6	o 1011.2
US08291	42-04.9	141-14.8	7/15	0738-0745	226	Calm	SE -1	Calm	18.9	17.6	o 1011.6
US08292	42-10.0	141-05.2	7/15	0848-0853	90	Calm	SE -1	Calm	20.8	16.2	o 1011.5
US08293	42-15.2	141-14.1	7/15	0950-0955	144	SW -1	SE -1	SW -2	21.7	18.1	bc 1011.4
US08294	42-20.0	141-06.8	7/15	1046-1049	58	SSW-1	SE -1	SSW-3	21.6	18.4	bc 1011.0
US08295	42-24.2	141-14.8	7/15	1158-1202	74	South-1	SE -1	South-3	20.2	18.0	bc 1010.6
US08296	41-59.2	141-01.0	7/15	1445-1449	96	Calm	SE -1	Calm	21.3	18.7	bc 1010.1
US08297	41-58.4	141-00.0	7/15	1456-1500	90	Calm	SE -1	Calm	21.6	18.3	bc 1010.0
US08298	41-58.0	140-59.2	7/15	1505-1509	85	Calm	SE -1	Calm	22.0	19.2	bc 1010.0
US08299	41-57.5	140-58.4	7/15	1514-1518	81	Calm	SE -1	Calm	22.5	17.9	c 1010.0
US08300	42-01.6	140-55.3	7/15	1548-1552	79	Calm	SE -1	Calm	21.2	20.4	bc 1010.0
US08301	42-05.0	140-55.1	7/15	1618-1622	87	Calm	SE -1	Calm	20.8	18.9	bc 1010.0
US08302	42-10.1	140-55.4	7/15	1657-1701	76	ESE-1	SE -1	ESE-2	20.2	19.1	bc 1009.8
US08303	42-15.2	140-55.0	7/15	1738-1742	60	SSE-1	SE -1	SSE-2	20.4	19.7	c 1009.9

Cruise 153

Station	Lat. (N)*	Long. (E)*	Date	S.M.T.	Depth	Wave	Swell	Wind	Air Temp.	Sea Temp.	Wr. Bar. (hPa)
US08378	41-58.9	141-00.9	8/18	1356-1400	96	East-1	East-1	East-3	21.8	21.2	bc 1011.0
US08379	41-58.4	140-59.9	8/18	1407-1411	89	East-1	East-1	East-3	21.9	21.0	bc 1011.0
US08380	41-57.9	140-59.0	8/18	1417-1420	84	East-1	East-1	East-3	22.3	21.1	bc 1011.0
US08381	41-57.4	140-58.2	8/18	1426-1430	79	East-1	East-1	East-3	22.6	21.0	bc 1011.0
US08382	42-23.3	140-43.0	8/20	0803-0818	59	ESE-1	SE -1	ESE-2	18.3	20.4	r 1003.0
US08383	42-28.9	140-31.4	8/20	0924-0930	75	ESE-1	SE -1	ESE-2	18.9	20.7	o 1003.7
US08384	42-19.1	140-30.6	8/20	1111-1118	92	ESE-2	ESE-1	ESE-4	19.4	20.6	r 1003.8
US08385	42-16.2	140-35.5	8/20	1159-1206	90	East-3	ESE-1	East-5	19.0	20.5	o 1003.6
US08386	42-11.6	140-35.8	8/21	1149-1153	83	South-2	ESE-1	South-4	18.6	20.5	c 1009.6
US08387	42-22.7	140-25.5	8/21	1542-1546	73	ESE-2	SE -1	ESE-4	19.1	20.6	bc 1010.3
US08388	42-22.7	140-30.0	8/21	1633-1640	95	ESE-2	SE -1	ESE-4	19.0	20.5	bc 1010.9
US08389	42-25.8	140-37.0	8/22	0753-0757	84	SW -1	SE -1	SW -2	19.7	20.4	bc 1014.6
US08390	42-21.1	140-38.7	8/22	1028-1032	80	SSE-1	SE -1	SSE-2	19.2	20.6	bc 1015.1
US08391	42-18.0	140-40.4	8/22	1201-1205	77	SE -2	SE -1	SE -4	19.9	20.5	bc 1014.8

Cruise 152

Station	Lat. (N)*	Long. (E)*	Date	S.M.T.	Depth	Wave	Swell	Wind	Air Temp.	Sea Temp.	Wr.	Bar. (hPa)
US08304	43-14.7	141-10.1	7/26	0810-0813	24	NNW-2	North-1	NNW-4	20.8	19.6	bc	1012.2
US08305	43-15.7	141-14.8	7/26	0840-0843	22	NNW-2	North-1	NNW-4	21.6	20.2	bc	1012.2
US08306	43-17.2	141-19.9	7/26	0909-0913	16	West-1	North-1	West-3	21.9	20.9	bc	1012.2
US08307	43-19.9	141-20.0	7/26	0930-0933	21	NW -1	North-1	NW -3	21.0	21.3	bc	1012.2
US08308	43-20.0	141-15.3	7/26	0955-0959	27	NW-2	North-1	NW -4	20.0	19.7	bc	1012.2
US08309	43-20.0	141-10.2	7/26	1021-1026	36	NW -2	North-1	NW -4	19.7	19.8	bc	1012.2
US08310	43-20.0	141-00.2	7/26	1114-1119	49	NW -1	North-1	NW -3	19.9	21.2	bc	1012.4
US08311	43-30.0	141-00.0	7/26	1226-1232	92	North-1	North-1	North-3	21.6	20.2	bc	1012.2
US08312	43-30.0	141-10.1	7/26	1324-1330	58	North-1	North-1	North-3	21.3	20.2	bc	1012.0
US08313	43-30.0	141-14.6	7/26	1357-1400	40	NNW-2	North-1	NNW-4	22.4	20.3	bc	1012.0
US08314	43-30.0	141-18.9	7/26	1421-1425	31	NNW-2	North-1	NNW-4	22.6	20.4	bc	1012.0
US08315	43-39.9	141-15.0	7/26	1533-1538	64	NNW-2	North-1	NNW-4	21.4	18.3	bc	1012.0
US08316	43-40.0	141-10.1	7/26	1602-1608	81	NNW-2	North-1	NNW-4	20.7	20.4	bc	1012.1
US08317	43-40.1	141-01.1	7/26	1655-1710	285	NNE-2	North-1	NNE-4	20.8	20.0	bc	1012.2
US08318	43-49.9	141-09.8	7/26	1834-1847	232	NNE-2	North-1	NNE-5	20.8	20.1	bc	1011.8
US08319	43-50.0	141-19.8	7/26	1943-1950	80	NNE-2	North-1	NNE-4	21.0	20.9	bc	1012.0
US08320	44-56.4	141-39.1	7/27	0421-0425	28	East-1	NE -1	East-3	16.5	19.5	bc	1014.1
US08321	45-27.4	142-50.0	7/27	1158-1206	118	SSE-2	East-1	SSE-4	16.7	15.7	bc	1014.7
US08322	45-20.4	142-41.2	7/27	1310-1317	97	SE -2	East-1	SE -4	18.1	15.8	bc	1014.8
US08323	45-18.4	142-38.0	7/27	1341-1348	87	SE -2	East-1	SE -4	18.0	16.2	bc	1014.5
US08324	45-16.8	142-36.2	7/27	1403-1407	78	SE -2	East-1	SE -5	17.9	17.0	bc	1014.0
US08325	45-14.8	142-33.5	7/27	1432-1438	64	SE -3	ESE-1	SE -5	17.8	17.0	bc	1014.7
US08326	45-11.3	142-28.5	7/27	1510-1515	43	SE -3	ESE-1	SE -5	18.7	17.8	bc	1013.3
US08327	44-50.5	142-46.1	7/27	1724-1728	49	ESE-2	SE -1	ESE-4	18.1	17.5	bc	1013.6
US08328	44-53.0	142-52.8	7/27	1759-1802	87	ESE-2	East-1	ESE-4	17.0	16.4	bc	1013.6
US08329	44-54.9	142-56.9	7/27	1831-1840	114	ESE-2	East-1	ESE-4	16.5	16.8	bc	1013.6
US08330	44-56.8	143-00.2	7/27	1902-1910	127	ESE-2	East-1	ESE-4	15.9	15.2	bc	1013.7
US08331	44-58.8	143-03.2	7/27	1932-1940	130	ESE-2	East-1	ESE-4	15.8	15.2	bc	1013.5
US08332	45-04.4	143-12.8	7/27	2035-2046	138	ESE-2	East-1	ESE-4	16.1	16.3	bc	1012.8
US08333	44-57.7	144-09.8	7/28	0610-0636	230	ESE-1	East-1	ESE-3	14.6	13.4	bc	1012.5
US08334	44-49.3	144-00.1	7/28	0743-0802	184	ESE-1	East-1	ESE-2	16.2	13.6	bc	1012.6
US08335	44-44.4	143-54.1	7/28	0841-0859	172	SE -1	NE -1	SE -3	16.8	13.2	bc	1012.4
US08336	44-39.3	143-47.2	7/28	1115-1125	159	East-1	ENE-1	East-2	19.7	15.2	bc	1012.1
US08337	44-34.9	143-41.5	7/28	1204-1215	148	East-1	ENE-1	East-2	21.4	16.1	bc	1011.7
US08338	44-31.9	143-37.8	7/28	1242-1253	131	ENE-1	ENE-1	ENE-3	20.7	16.8	bc	1011.7
US08339	44-29.0	143-34.0	7/28	1412-1421	95	ENE-1	ENE-1	ENE-3	20.1	15.8	bc	1010.7
US08340	44-24.4	143-28.3	7/28	1500-1507	56	NE -1	ENE-1	NE -2	21.4	17.8	bc	1010.5
US08341	44-10.0	143-58.9	7/28	1804-1809	37	SE -1	ENE-1	SE -3	21.6	17.1	bc	1010.0
US08342	44-10.2	144-19.3	7/28	1955-2002	110	SSE-2	ESE-1	SSE-5	17.4	15.6	bc	1011.0
US08343	44-14.0	144-24.5	7/28	2033-2048	321	SSE-2	SE -1	SSE-5	16.9	14.5	bc	1011.5
US08344	44-18.5	144-29.5	7/28	2128-2204	923	South-2	SE -1	South-5	15.9	14.2	bc	1011.8
US08345	44-21.3	144-33.0	7/28	2237-0020	1131	South-2	SE -1	South-4	16.3	14.1	bc	1012.0
US08346	44-28.8	144-42.0	7/29	0132-0227	1473	South-2	SE -1	South-4	14.9	12.8	bc	1011.6
US08347	44-17.3	145-03.1	7/29	0435-0452	802	WSW-1	SE -1	WSW-3	15.0	13.5	bc	1012.7
US08348	44-15.7	145-06.5	7/29	0515-0531	755	SE -1	SE -1	SE -2	15.5	14.3	bc	1013.0
US08349	44-14.6	145-09.2	7/29	0550-0606	406	SE -1	SE -1	SE -6	15.4	16.0	bc	1012.8
US08350	44-20.8	145-12.3	7/29	0640-0655	985	NNE-1	SE -1	NNE-3	15.4	13.6	bc	1013.1
US08351	44-27.5	145-14.1	7/29	0734-0748	1773	ESE-1	East-1	ESE-2	16.0	13.9	bc	1013.1
US08352	44-24.3	145-21.0	7/29	0829-0843	436	SE -3	SE -1	SE -6	15.0	13.6	bc	1012.7
US08353	44-20.9	145-27.7	7/29	0921-0935	1672	SSE-3	SE -1	SSE-6	14.3	13.0	c	1013.1
US08354	44-18.4	145-33.3	7/29	1005-1020	2388	SSE-3	SE -1	SSE-6	13.8	13.4	c	1013.6
US08355	44-13.5	145-27.5	7/29	1107-1147	1818	SSE-3	SE -1	SSE-5	14.0	13.7	c	1013.8
US08356	44-08.6	145-20.2	7/29	1249-1301	510	South-3	SSW-1	South-5	14.6	13.7	o	1014.0
US08357	44-07.1	145-22.4	7/29	1317-1330	985	SSW-2	SSW-1	SSW-4	14.5	14.1	o	1014.0
US08358	44-05.8	145-24.9	7/29	1340-1357	1008	SSE-2	SSE-1	SSE-4	14.6	13.8	o	1013.9
US08359	44-02.0	145-17.9	7/29	1442-1453	424	South-3	South-1	South-5	15.0	13.9	o	1013.6
US08360	43-55.4	145-15.5	7/29	1540-1546	85	SSE-3	SSE-1	SSE-5	14.9	14.7	c	1013.9
US08361	43-56.4	145-12.6	7/29	1602-1610	83	SSE-1	SSE-1	SSE-3	15.1	14.6	o	1014.2
US08362	43-57.4	145-10.5	7/29	1624-1630	82	SSW-1	SSE-1	SSW-3	14.9	14.6	o	1014.5
US08363	43-49.8	145-10.8	7/31	1601-1606	42	SSE-2	SSE-1	SSE-5	16.2	15.1	bc	1015.8
US08364	43-36.3	145-25.9	7/31	1807-1812	23	SSE-2	SSE-1	SSE-4	14.8	12.6	o	1016.8
US08365	43-33.7	145-23.6	7/31	1850-1852	12	SSW-2	SSE-1	SSW-4	15.2	13.0	o	1017.2
US08366	43-29.9	145-30.0	7/31	1942-1944	24	SSW-1	SSE-1	SSW-4	15.1	13.6	o	1017.2
US08367	43-30.3	145-34.3	7/31	2008-2011	29	SSW-1	SSE-1	SSW-4	15.5	14.9	o	1017.6
US08368	43-26.9	145-39.9	7/31	2050-2052	31	South-1	South-1	South-4	15.6	14.6	o	1017.4
US08369	43-24.7	145-36.0	7/31	2120-2123	26	SSW-1	South-1	SSW-3	15.9	14.5	o	1017.6
US08370	43-22.4	145-32.0	7/31	2151-2153	18	SW -1	South-1	SW -3	15.7	15.6	o	1017.6
US08371	43-27.5	145-26.0	7/31	2240-2243	20	South-1	South-1	South-3	15.8	15.1	o	1017.5
US08372	43-31.2	145-20.0	8/1	0415-0418	7	South-1	SE -1	South-3	15.7	14.7	o	1016.6
US08373	43-30.3	145-17.9	8/1	0442-0445	7	South-1	SE -1	South-3	15.6	14.6	o	1016.7
US08374	43-25.4	145-21.6	8/1	0524-0527	11	South-1	SE -1	South-3	15.8	14.3	o	1017.0
US08375	43-24.3	145-20.1	8/1	0542-0544	9	South-1	SE -1	South-3	16.2	14.4	o	1017.1
US08376	43-19.5	145-25.6	8/1	0628-0631	12	South-1	SE -1	South-3	16.5	15.7	o	1017.0
US08377	43-20.4	145-27.5	8/1	0646-0648	15	South-1	SE -1	South-3	16.7	16.0	o	1017.1

(*)Fixed position by Global Positioning System

Table 2: Oceanographic data

STATION US08270 LATITUDE 42-00.0 N LONGITUDE 141-19.6 E DEPTH (m) 308				STATION US08271 LATITUDE 42-29.4 N LONGITUDE 141-21.2 E DEPTH (m) 63				STATION US08272 LATITUDE 42-17.4 N LONGITUDE 140-54.0 E DEPTH (m) 57			
Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T
5	16.297	32.837	24.017	5	15.672	32.839	24.159	5	18.423	31.926	22.816
10	15.426	32.976	24.319	10	15.605	32.886	24.210	10	16.568	32.171	23.444
20	12.205	33.976	25.755	20	13.883	32.802	24.513	20	9.877	32.632	25.124
30	11.127	34.013	25.984	30	12.760	33.332	25.148	30	8.408	32.876	25.546
40	10.471	34.010	26.098	40	9.158	33.099	25.605	40	7.434	33.042	25.817
50	8.597	33.798	26.240	50	8.081	33.261	25.896	50	7.761	33.381	26.037
75	6.820	33.753	26.461								
100	7.133	33.916	26.546								
125	6.176	33.806	26.587								
150	5.010	33.704	26.647								
175	4.575	33.678	26.674								
200	2.918	33.490	26.687								
250	3.281	33.603	26.745								

STATION US08273 LATITUDE 42-11.7 N LONGITUDE 141-01.7 E DEPTH (m) 78				STATION US08274 LATITUDE 42-05.2 N LONGITUDE 140-56.8 E DEPTH (m) 84				STATION US08275 LATITUDE 42-10.3 N LONGITUDE 140-47.5 E DEPTH (m) 92			
Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T
5	15.824	32.816	24.107	5	16.750	32.889	23.953	5	18.262	31.937	22.864
10	14.905	32.955	24.416	10	14.956	33.045	24.474	10	16.247	32.283	23.603
20	11.597	33.140	25.219	20	11.334	33.027	25.180	20	14.013	32.427	24.197
30	8.809	33.082	25.646	30	8.492	33.223	25.805	30	9.260	32.386	25.031
40	8.015	33.230	25.881	40	8.089	33.342	25.959	40	8.611	32.860	25.503
50	8.088	33.362	25.974	50	4.183	32.900	26.097	50	6.578	32.899	25.820
				75	3.716	33.315	26.474	75	3.491	33.156	26.368

STATION US08276 LATITUDE 42-11.2 N LONGITUDE 140-35.8 E DEPTH (m) 81				STATION US08277 LATITUDE 42-16.2 N LONGITUDE 140-36.2 E DEPTH (m) 91				STATION US08278 LATITUDE 42-18.9 N LONGITUDE 140-30.7 E DEPTH (m) 93			
Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T
5	18.577	32.160	22.957	5	17.955	32.142	23.095	5	17.561	32.217	23.247
10	17.020	32.209	23.368	10	17.242	32.171	23.288	10	17.346	32.226	23.305
20	16.047	32.390	23.730	20	16.850	32.287	23.468	20	16.588	32.267	23.513
30	10.932	32.517	24.854	30	15.743	32.498	23.881	30	15.997	32.492	23.820
40	7.648	32.699	25.518	40	9.926	32.438	24.964	40	9.447	32.485	25.079
50	5.919	32.889	25.895	50	7.049	32.723	25.619	50	7.281	32.858	25.694
75	2.687	32.919	26.251	75	2.661	33.037	26.347	75	3.178	33.063	26.323

STATION US08279 LATITUDE 42-28.8 N LONGITUDE 140-31.1 E DEPTH (m) 76				STATION US08280 LATITUDE 42-23.4 N LONGITUDE 140-42.4 E DEPTH (m) 63				STATION US08281 LATITUDE 42-30.0 N LONGITUDE 141-29.9 E DEPTH (m) 75			
Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T
5	17.356	32.113	23.216	5	18.189	32.081	22.992	5	16.180	32.906	24.097
10	16.002	32.523	23.843	10	16.752	32.244	23.458	10	14.654	33.024	24.524
20	13.920	32.484	24.260	20	16.067	32.453	23.775	20	9.943	32.984	25.387
30	8.602	32.537	25.251	30	9.475	32.262	24.900	30	9.397	33.298	25.722
40	8.029	33.061	25.747	40	8.194	32.572	25.339	40	7.825	33.345	26.000
50	6.297	33.114	26.025	50	6.910	32.974	25.835	50	6.891	33.384	26.160

STATION US08282 LATITUDE 42-25.5 N LONGITUDE 141-29.7 E DEPTH (m) 116				STATION US08283 LATITUDE 42-25.2 N LONGITUDE 141-25.3 E DEPTH (m) 103				STATION US08284 LATITUDE 42-29.7 N LONGITUDE 141-25.1 E DEPTH (m) 77			
Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T
5	15.182	33.045	24.425	5	15.640	33.348	24.558	5	15.660	32.843	24.165
10	10.525	32.950	25.263	10	12.337	33.597	25.435	10	13.489	33.020	24.762
20	8.560	33.213	25.787	20	10.669	33.602	25.745	20	10.050	32.975	25.362
30	7.506	33.306	26.015	30	9.696	33.722	26.004	30	8.357	33.171	25.785
40	9.676	34.003	26.228	40	9.970	33.973	26.155	40	7.952	33.320	25.962
50	9.619	34.024	26.254	50	9.759	34.014	26.222	50	7.777	33.525	26.148
75	9.209	34.001	26.303	75	8.023	33.874	26.386				
100	6.825	33.759	26.465								

STATION US08285			
LATITUDE 42-27.9 N			
LONGITUDE 141-24.7 E			
DEPTH (m) 86			
Press.	Temp.	Salinity	Sigma-T
5	15.980	33.033	24.240
10	14.032	33.146	24.748
20	12.153	33.486	25.384
30	10.264	33.665	25.865
40	9.490	33.779	26.083
50	8.610	33.765	26.212
75	6.602	33.696	26.445

STATION US08286			
LATITUDE 42-29.0 N			
LONGITUDE 141-20.3 E			
DEPTH (m) 61			
Press.	Temp.	Salinity	Sigma-T
5	17.295	32.821	23.773
10	15.571	33.015	24.317
20	11.258	33.035	25.200
30	9.764	33.267	25.638
40	8.166	33.300	25.914

STATION US08287			
LATITUDE 42-25.3 N			
LONGITUDE 141-20.2 E			
DEPTH (m) 91			
Press.	Temp.	Salinity	Sigma-T
5	16.236	32.935	24.106
10	14.684	33.207	24.657
20	10.120	33.147	25.485
30	9.695	33.669	25.964
40	8.559	33.662	26.139
50	8.657	33.825	26.252
75	7.023	33.770	26.447

STATION US08288			
LATITUDE 42-27.6 N			
LONGITUDE 141-20.0 E			
DEPTH (m) 75			
Press.	Temp.	Salinity	Sigma-T
5	16.843	32.868	23.915
10	14.857	33.023	24.479
20	10.905	33.182	25.377
30	10.898	33.685	25.770
40	8.226	33.480	26.047
50	7.387	33.596	26.260

STATION US08289			
LATITUDE 41-55.0 N			
LONGITUDE 141-15.8 E			
DEPTH (m) 261			
Press.	Temp.	Salinity	Sigma-T
5	15.910	33.141	24.338
10	12.774	33.100	24.965
20	8.765	33.078	25.650
30	8.173	33.365	25.965
40	7.760	33.416	26.065
50	7.522	33.426	26.107
75	8.207	33.976	26.439
100	7.578	33.897	26.469
125	7.029	33.866	26.521
150	5.797	33.728	26.573
175	5.362	33.715	26.614
200	5.173	33.696	26.622

STATION US08290			
LATITUDE 42-00.2 N			
LONGITUDE 141-05.2 E			
DEPTH (m) 116			
Press.	Temp.	Salinity	Sigma-T
5	17.813	32.657	23.524
10	15.659	32.949	24.247
20	12.376	33.167	25.095
30	11.366	33.657	25.664
40	8.190	33.295	25.907
50	8.169	33.500	26.071
75	6.385	33.591	26.390
100	6.247	33.756	26.538

STATION US08291			
LATITUDE 42-04.9 N			
LONGITUDE 141-14.8 E			
DEPTH (m) 226			
Press.	Temp.	Salinity	Sigma-T
5	17.862	32.868	23.673
10	14.172	33.505	24.996
20	11.077	33.689	25.741
30	10.076	33.789	25.993
40	8.716	33.723	26.162
50	8.101	33.763	26.287
75	7.124	33.814	26.468
100	6.045	33.727	26.541
125	5.926	33.778	26.596
150	4.761	33.635	26.619
175	4.408	33.599	26.629
200	4.319	33.595	26.635

STATION US08292			
LATITUDE 42-10.0 N			
LONGITUDE 141-05.2 E			
DEPTH (m) 90			
Press.	Temp.	Salinity	Sigma-T
5	17.892	32.112	23.088
10	15.203	32.712	24.165
20	11.884	33.224	25.231
30	8.197	32.951	25.636
40	8.021	33.183	25.844
50	8.025	33.274	25.915
75	6.622	33.568	26.342

STATION US08293			
LATITUDE 42-15.2 N			
LONGITUDE 141-14.1 E			
DEPTH (m) 144			
Press.	Temp.	Salinity	Sigma-T
5	16.940	32.900	23.917
10	14.129	33.287	24.837
20	10.632	33.447	25.631
30	10.752	33.916	25.975
40	9.359	33.828	26.143
50	9.699	34.021	26.238
75	7.862	33.876	26.412
100	6.910	33.821	26.502
125	5.870	33.745	26.577

STATION US08294			
LATITUDE 42-20.0 N			
LONGITUDE 141-06.8 E			
DEPTH (m) 58			
Press.	Temp.	Salinity	Sigma-T
5	18.168	32.548	23.354
10	15.499	32.818	24.181
20	11.574	32.905	25.041
30	8.048	33.263	25.903
40	7.065	33.392	26.143
50	5.999	33.527	26.389

STATION US08295			
LATITUDE 42-24.2 N			
LONGITUDE 141-14.8 E			
DEPTH (m) 74			
Press.	Temp.	Salinity	Sigma-T
5	16.321	32.755	23.948
10	15.435	33.019	24.350
20	11.699	33.099	25.168
30	8.501	33.073	25.686
40	9.473	33.587	25.936
50	7.280	33.543	26.233

STATION US08296			
LATITUDE 41-59.2 N			
LONGITUDE 141-01.0 E			
DEPTH (m) 96			
Press.	Temp.	Salinity	Sigma-T
5	17.469	32.446	23.445
10	16.891	32.435	23.572
20	12.920	33.025	24.879
30	12.029	33.221	25.202
40	8.653	33.273	25.820
50	7.622	33.382	26.058
75	6.384	33.711	26.485

STATION US08297			
LATITUDE 41-58.4 N			
LONGITUDE 141-00.0 E			
DEPTH (m) 90			
Press.	Temp.	Salinity	Sigma-T
5	17.780	32.468	23.387
10	17.260	32.398	23.457
20	15.189	33.120	24.482
30	11.462	33.137	25.242
40	8.386	33.255	25.846
50	7.555	33.388	26.072
75	5.873	33.670	26.517

STATION US08298			
LATITUDE 41-58.0 N			
LONGITUDE 140-59.2 E			
DEPTH (m) 85			
Press.	Temp.	Salinity	Sigma-T
5	17.615	32.394	23.370
10	17.530	32.466	23.446
20	15.310	33.043	24.396
30	13.075	33.331	25.086
40	8.979	33.081	25.619
50	7.907	33.382	26.017
75	5.583	33.687	26.566

STATION US08299			
LATITUDE 41-57.5 N			
LONGITUDE 140-58.4 E			
DEPTH (m) 81			
Press.	Temp.	Salinity	Sigma-T
5	17.904	32.218	23.166
10	17.208	32.390	23.463
20	15.408	33.063	24.390
30	12.924	33.190	25.006
40	9.721	33.037	25.465
50	8.030	33.336	25.962
75	5.497	33.709	26.594

STATION US08300				STATION US08301				STATION US08302			
LATITUDE 42-01.6 N				LATITUDE 42-05.0 N				LATITUDE 42-10.1 N			
LONGITUDE 140-55.3 E				LONGITUDE 140-55.1 E				LONGITUDE 140-55.4 E			
DEPTH (m) 79				DEPTH (m) 87				DEPTH (m) 76			
Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T
5	18.363	32.098	22.963	5	18.287	32.098	22.981	5	17.423	32.131	23.214
10	17.606	32.204	23.227	10	16.537	32.323	23.568	10	15.123	32.543	24.052
20	14.905	32.456	24.031	20	15.118	32.980	24.389	20	11.206	33.024	25.200
30	13.497	33.281	24.962	30	13.354	33.302	25.007	30	8.473	33.010	25.641
40	9.720	33.047	25.473	40	8.879	33.003	25.573	40	8.179	33.330	25.936
50	8.281	33.307	25.903	50	8.168	33.353	25.956	50	6.731	33.224	26.056
				75	5.669	33.700	26.567				
STATION US08303				STATION US08304				STATION US08305			
LATITUDE 42-15.2 N				LATITUDE 43-14.7 N				LATITUDE 43-15.7 N			
LONGITUDE 140-55.0 E				LONGITUDE 141-10.1 E				LONGITUDE 141-14.8 E			
DEPTH (m) 60				DEPTH (m) 24				DEPTH (m) 22			
Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T
5	18.272	32.038	22.939	5	20.017	33.347	23.497	5	20.005	33.441	23.571
10	15.141	32.373	23.917	10	18.850	33.937	24.247	10	19.457	33.554	23.799
20	9.520	32.632	25.182	20	16.384	34.044	24.924				
30	8.924	33.143	25.676								
40	7.693	33.337	26.013								
50	6.527	33.382	26.207								
STATION US08306				STATION US08307				STATION US08308			
LATITUDE 43-17.2 N				LATITUDE 43-19.9 N				LATITUDE 43-20.0 N			
LONGITUDE 141-19.9 E				LONGITUDE 141-20.0 E				LONGITUDE 141-15.3 E			
DEPTH (m) 16				DEPTH (m) 21				DEPTH (m) 27			
Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T
5	19.351	33.316	23.646	5	19.709	33.585	23.758	5	19.905	33.296	23.488
10	18.294	33.863	24.329	10	19.332	33.599	23.866	10	19.470	33.455	23.721
								20	17.658	33.950	24.551
STATION US08309				STATION US08310				STATION US08311			
LATITUDE 43-20.0 N				LATITUDE 43-20.0 N				LATITUDE 43-30.0 N			
LONGITUDE 141-10.2 E				LONGITUDE 141-00.2 E				LONGITUDE 141-00.0 E			
DEPTH (m) 36				DEPTH (m) 49				DEPTH (m) 92			
Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T
5	19.910	0.389	946.230	5	20.877	0.321	190.530	5	20.628	0.192	156.150
10	19.324	0.155	481.690	10	17.958	0.147	210.450	10	18.774	0.143	146.920
20	17.940	0.186	238.180	20	13.476	0.209	162.200	20	14.905	0.392	117.580
				30	12.045	0.378	80.208	30	12.502	0.390	79.736
				40	10.820	0.598	37.023	40	11.261	0.534	36.528
								50	9.879	0.290	16.176
								75	8.265	0.247	3.883
STATION US08312				STATION US08313				STATION US08314			
LATITUDE 43-30.0 N				LATITUDE 43-30.0 N				LATITUDE 43-30.0 N			
LONGITUDE 141-10.1 E				LONGITUDE 141-14.6 E				LONGITUDE 141-18.9 E			
DEPTH (m) 58				DEPTH (m) 40				DEPTH (m) 31			
Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T
5	20.449	32.959	23.088	5	20.565	32.902	23.014	5	20.681	33.523	23.456
10	20.060	33.145	23.332	10	20.151	33.002	23.199	10	20.278	33.533	23.570
20	16.060	33.991	24.958	20	17.007	33.991	24.738	20	16.171	33.984	24.927
30	12.947	34.031	25.652	30	12.632	33.987	25.680				
40	10.887	34.077	26.077								
50	9.218	34.114	26.389								
STATION US08315				STATION US08316				STATION US08317			
LATITUDE 43-39.9 N				LATITUDE 43-40.0 N				LATITUDE 43-40.1 N			
LONGITUDE 141-15.0 E				LONGITUDE 141-10.1 E				LONGITUDE 141-01.1 E			
DEPTH (m) 64				DEPTH (m) 81				DEPTH (m) 285			
Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T
5	19.599	33.784	23.939	5	20.381	33.629	23.616	5	20.252	33.717	23.717
10	18.735	33.847	24.207	10	19.566	33.837	23.988	10	20.097	33.709	23.752
20	16.267	33.992	24.911	20	18.300	33.962	24.404	20	19.415	33.774	23.979
30	12.271	33.985	25.749	30	16.162	34.050	24.980	30	18.888	33.916	24.221
40	10.482	34.087	26.156	40	12.630	34.007	25.696	40	16.674	34.032	24.848
50	9.617	34.150	26.353	50	9.995	34.096	26.247	50	13.418	34.119	25.626
				75	8.628	34.172	26.528	75	10.093	34.239	26.342
								100	7.983	34.158	26.615
								125	6.353	34.113	26.807
								150	4.892	34.088	26.965
								175	3.995	34.076	27.051
								200	3.291	34.093	27.135
								250	2.092	34.077	27.225

STATION US08318 LATITUDE 43-49.9 N LONGITUDE 141-09.8 E DEPTH (m) 232				STATION US08319 LATITUDE 43-50.0 N LONGITUDE 141-19.8 E DEPTH (m) 80				STATION US08320 LATITUDE 44-56.4 N LONGITUDE 141-39.1 E DEPTH (m) 28			
Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T
5	20.348	33.506	23.531	5	20.621	33.520	23.470	5	19.770	33.590	23.747
10	19.850	33.667	23.785	10	19.119	33.830	24.097	10	19.731	33.664	23.813
20	18.821	33.859	24.195	20	16.992	33.990	24.741	20	15.886	33.965	24.977
30	15.658	34.008	25.062	30	15.051	34.078	25.250				
40	13.187	34.084	25.646	40	12.944	34.067	25.681				
50	11.479	34.153	26.029	50	10.486	34.066	26.139				
75	9.395	34.203	26.430								
100	8.276	34.190	26.596								
125	6.363	34.118	26.809								
150	4.810	34.079	26.966								
175	3.696	34.087	27.090								
200	3.115	34.080	27.141								

STATION US08321 LATITUDE 45-27.4 N LONGITUDE 142-50.0 E DEPTH (m) 118				STATION US08322 LATITUDE 45-20.4 N LONGITUDE 142-41.2 E DEPTH (m) 97				STATION US08323 LATITUDE 45-18.4 N LONGITUDE 142-38.0 E DEPTH (m) 87			
Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T
5	15.318	31.805	23.441	5	15.432	31.961	23.537	5	16.522	33.650	24.590
10	10.964	31.948	24.405	10	10.672	32.048	24.534	10	12.247	33.227	25.166
20	8.237	32.154	25.005	20	7.294	32.573	25.468	20	8.728	33.555	26.029
30	3.971	32.250	25.602	30	5.773	33.164	26.130	30	6.439	34.018	26.721
40	2.342	32.584	26.010	40	5.317	33.490	26.442	40	6.423	34.044	26.743
50	0.703	32.651	26.174	50	4.394	33.598	26.630	50	6.437	34.051	26.747
75	-0.725	33.102	26.606	75	4.103	34.000	26.980	75	5.280	34.058	26.896
100	1.566	33.209	26.568								

STATION US08324 LATITUDE 45-16.8 N LONGITUDE 142-36.2 E DEPTH (m) 78				STATION US08325 LATITUDE 45-14.8 N LONGITUDE 142-33.5 E DEPTH (m) 64				STATION US08326 LATITUDE 45-11.3 N LONGITUDE 142-28.5 E DEPTH (m) 43			
Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T
5	17.220	33.598	24.386	5	16.883	33.876	24.679	5	18.152	33.911	24.401
10	15.847	33.741	24.814	10	13.702	33.908	25.405	10	16.207	33.896	24.851
20	9.338	33.861	26.172	20	12.595	33.995	25.695	20	15.729	33.945	24.998
30	8.984	34.036	26.366	30	12.374	34.013	25.751	30	15.652	33.955	25.022
40	8.811	34.056	26.409	40	10.780	34.010	26.044				
50	8.581	34.058	26.446	50	10.323	34.036	26.144				

STATION US08327 LATITUDE 44-50.5 N LONGITUDE 142-46.1 E DEPTH (m) 49				STATION US08328 LATITUDE 44-53.0 N LONGITUDE 142-52.8 E DEPTH (m) 87				STATION US08329 LATITUDE 45-54.9 N LONGITUDE 142-56.9 E DEPTH (m) 114			
Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T
5	17.858	33.959	24.510	5	16.893	33.894	24.691	5	16.930	33.724	24.551
10	17.165	33.916	24.644	10	15.863	33.914	24.943	10	16.667	33.692	24.588
20	16.610	33.930	24.784	20	14.513	33.920	25.245	20	6.611	33.124	25.993
30	16.485	33.934	24.817	30	11.119	33.980	25.960	30	6.031	33.549	26.402
40	16.150	33.943	24.900	40	10.574	34.028	26.094	40	5.626	33.845	26.686
				50	10.339	34.034	26.140	50	5.665	34.022	26.821
				75	9.300	34.043	26.320	75	5.513	34.029	26.846
								100	5.321	34.038	26.875

STATION US08330 LATITUDE 44-56.8 N LONGITUDE 143-00.2 E DEPTH (m) 127				STATION US08331 LATITUDE 44-58.8 N LONGITUDE 143-03.2 E DEPTH (m) 130				STATION US08332 LATITUDE 45-04.4 N LONGITUDE 143-12.8 E DEPTH (m) 138			
Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T
5	13.628	32.415	24.265	5	15.965	32.148	23.563	5	16.225	32.312	23.631
10	10.506	32.824	25.168	10	9.499	32.379	24.987	10	11.354	32.706	24.926
20	6.744	33.043	25.912	20	2.876	32.363	25.791	20	3.187	32.536	25.902
30	5.869	33.500	26.384	30	0.739	32.592	26.124	30	2.618	32.952	26.283
40	5.247	33.802	26.697	40	3.469	33.295	26.481	40	0.841	32.964	26.418
50	5.114	33.902	26.792	50	4.568	33.545	26.569	50	0.856	33.096	26.523
75	4.803	33.974	26.884	75	4.984	33.957	26.850	75	-0.052	33.183	26.642
100	4.460	34.000	26.942	100	4.640	33.983	26.909	100	1.010	33.340	26.710
								125	2.975	33.563	26.740

STATION US08333				STATION US08334				STATION US08335			
LATITUDE 44-57.7 N				LATITUDE 44-49.3 N				LATITUDE 44-44.4 N			
LONGITUDE 144-09.8 E				LONGITUDE 144-00.1 E				LONGITUDE 143-54.1 E			
DEPTH (m) 230				DEPTH (m) 184				DEPTH (m) 172			
Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T
5	13.781	32.396	24.220	5	13.317	32.659	24.517	5	12.833	32.704	24.648
10	9.732	32.315	24.899	10	10.934	32.636	24.946	10	11.151	32.696	24.953
20	2.962	32.539	25.924	20	3.235	32.808	26.115	20	2.368	32.835	26.209
30	1.513	32.725	26.184	30	1.590	32.940	26.351	30	1.144	33.012	26.438
40	0.512	32.868	26.359	40	0.942	33.038	26.471	40	1.382	33.196	26.570
50	-0.476	32.936	26.461	50	0.290	33.089	26.549	50	1.718	33.247	26.588
75	-0.638	33.097	26.598	75	0.193	33.191	26.636	75	0.271	33.209	26.647
100	-0.592	33.135	26.627	100	0.320	33.258	26.683	100	0.469	33.243	26.664
125	-0.012	33.218	26.668	125	0.495	33.292	26.702	125	0.320	33.304	26.721
150	0.352	33.269	26.691	150	1.053	33.341	26.708	150	2.497	33.456	26.695
175	-0.058	33.304	26.740	175	2.928	33.603	26.776				
200	-0.081	33.305	26.742								

STATION US08336				STATION US08337				STATION US08338			
LATITUDE 44-393 N				LATITUDE 44-34.9 N				LATITUDE 44-31.9 N			
LONGITUDE 143-47.2 E				LONGITUDE 143-41.5 E				LONGITUDE 143-37.8 E			
DEPTH (m) 159				DEPTH (m) 148				DEPTH (m) 131			
Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T
5	15.285	32.622	24.077	5	14.943	32.484	24.045	5	14.834	32.433	24.029
10	8.144	32.590	25.359	10	14.429	32.433	24.115	10	7.905	32.254	25.131
20	1.883	32.594	26.053	20	4.137	32.683	25.929	20	3.982	32.951	26.158
30	1.206	32.883	26.331	30	1.311	32.947	26.375	30	4.596	33.480	26.515
40	1.108	33.059	26.478	40	0.483	33.082	26.533	40	6.316	33.886	26.632
50	0.873	33.190	26.598	50	0.294	33.162	26.608	50	5.810	33.819	26.643
75	1.100	33.298	26.670	75	0.194	33.244	26.679	75	4.533	33.693	26.691
100	0.771	33.332	26.718	100	2.482	33.540	26.764	100	5.011	33.795	26.719
125	2.223	33.540	26.785	125	4.045	33.726	26.768	125	4.985	33.802	26.727
150	2.937	33.844	26.968								

STATION US08339				STATION US08340				STATION US08341			
LATITUDE 44-29.0 N				LATITUDE 44-24.4 N				LATITUDE 44-10.0 N			
LONGITUDE 143-34.0 E				LONGITUDE 143-28.3 E				LONGITUDE 143-58.9 E			
DEPTH (m) 95				DEPTH (m) 56				DEPTH (m) 37			
Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T
5	16.220	33.194	24.309	5	17.673	33.920	24.524	5	16.074	33.823	24.825
10	14.052	33.555	25.056	10	17.081	33.908	24.657	10	14.970	33.685	24.965
20	9.388	33.757	26.083	20	15.007	33.943	25.156	20	14.476	33.857	25.204
30	9.485	33.877	26.160	30	13.215	33.915	25.509	30	14.445	33.863	25.215
40	8.990	33.911	26.267	40	12.790	33.927	25.603				
50	8.502	33.916	26.347	50	12.699	33.930	25.624				
75	6.818	33.839	26.529								

STATION US08342				STATION US08343				STATION US08344			
LATITUDE 44-10.2 N				LATITUDE 44-14.0 N				LATITUDE 44-18.5 N			
LONGITUDE 144-19.3 E				LONGITUDE 144-24.5 E				LONGITUDE 144-29.5 E			
DEPTH (m) 110				DEPTH (m) 321				DEPTH (m) 923			
Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T
5	15.839	33.795	24.857	5	14.843	32.747	24.269	5	14.211	32.749	24.404
10	14.707	33.958	25.232	10	10.870	33.302	25.474	10	13.066	32.759	24.643
20	13.586	33.865	25.396	20	3.769	32.530	25.844	20	4.316	32.963	26.134
30	11.526	33.846	25.781	30	5.488	33.271	26.248	30	2.222	33.217	26.526
40	10.080	33.783	25.988	40	5.963	33.588	26.442	40	1.567	33.259	26.608
50	9.172	33.776	26.133	50	6.518	33.808	26.544	50	0.410	33.189	26.623
75	7.569	33.686	26.304	75	4.781	33.568	26.564	75	0.924	33.273	26.661
100	6.830	33.715	26.429	100	5.202	33.769	26.676	100	0.538	33.332	26.732
				125	3.496	33.572	26.700	125	0.576	33.329	26.727
				150	1.520	33.528	26.827	150	0.608	33.345	26.738
				175	3.842	33.601	26.690	175	0.624	33.360	26.749
				200	3.169	33.609	26.759	200	0.987	33.422	26.777
				250	3.966	33.772	26.813	250	1.364	33.503	26.818
				300	3.345	33.734	26.843	300	1.222	33.515	26.837
								400	1.570	33.620	26.898
								500	1.775	33.704	26.950
								600	1.905	33.778	27.000
								700	2.043	33.939	27.118
								800	2.171	34.063	27.208
								900	2.244	34.147	27.269

STATION US08345				STATION US08346				STATION US08347			
LATITUDE 44-21.3 N				LATITUDE 44-28.8 N				LATITUDE 44-17.3 N			
LONGITUDE 144-33.0 E				LONGITUDE 144-42.0 E				LONGITUDE 145-03.1 E			
DEPTH (m) 1131				DEPTH (m) 1473				DEPTH (m) 802			
Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T
5	14.515	32.869	24.433	5	12.956	32.969	24.829	5	13.738	32.991	24.688
10	9.095	32.991	25.530	10	11.044	33.235	25.394	10	12.155	33.321	25.255
20	5.568	33.378	26.324	20	2.972	32.945	26.247	20	11.548	33.768	25.717
30	5.034	33.489	26.473	30	1.972	33.113	26.462	30	7.475	33.211	25.944
40	4.150	33.450	26.538	40	1.181	33.139	26.538	40	9.034	33.800	26.173
50	2.474	33.319	26.588	50	0.420	33.123	26.570	50	7.264	33.571	26.257
75	2.441	33.424	26.674	75	0.593	33.226	26.643	75	2.098	33.281	26.587
100	2.233	33.440	26.704	100	2.906	33.511	26.705	100	2.850	33.424	26.640
125	2.055	33.448	26.724	125	2.219	33.449	26.712	125	1.805	33.531	26.809
150	0.807	33.340	26.723	150	2.000	33.443	26.724	150	0.849	33.348	26.726
175	1.241	33.420	26.759	175	1.368	33.401	26.736	175	1.342	33.430	26.761
200	0.850	33.405	26.772	200	0.925	33.389	26.755	200	2.045	33.481	26.751
250	2.326	33.594	26.820	250	0.745	33.417	26.788	250	2.070	33.541	26.797
300	2.253	33.597	26.828	300	1.161	33.503	26.832	300	2.230	33.598	26.831
400	1.718	33.641	26.904	400	1.392	33.605	26.898				
500	2.115	33.761	26.970	500	1.576	33.712	26.971				
600	1.960	33.839	27.044	600	1.863	33.847	27.058				
700	2.093	33.983	27.150	700	2.099	33.985	27.151				
800	2.217	34.081	27.218	800	2.229	34.090	27.224				
900	2.303	34.173	27.285	900	2.296	34.174	27.286				
1000	2.321	34.254	27.348	1000	2.334	34.259	27.351				
				1200	2.259	34.401	27.471				

STATION US08348				STATION US08349				STATION US08350			
LATITUDE 44-15.7 N				LATITUDE 44-14.6 N				LATITUDE 44-20.8 N			
LONGITUDE 145-06.5 E				LONGITUDE 145-09.2 E				LONGITUDE 145-12.3 E			
DEPTH (m) 755				DEPTH (m) 406				DEPTH (m) 985			
Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T
5	13.794	33.517	25.084	5	16.160	33.625	24.653	5	14.001	33.854	25.301
10	13.466	33.781	25.355	10	15.401	33.534	24.754	10	13.965	33.857	25.311
20	13.293	33.932	25.507	20	14.204	33.845	25.252	20	13.698	33.897	25.398
30	13.177	33.924	25.524	30	14.120	33.866	25.286	30	13.321	33.939	25.507
40	12.777	33.929	25.608	40	13.831	33.888	25.363	40	12.678	33.911	25.613
50	12.500	33.932	25.664	50	12.996	33.916	25.554	50	11.396	33.737	25.721
75	10.345	33.859	26.002	75	12.284	33.926	25.701	75	10.000	33.852	26.056
100	3.965	33.409	26.524	100	9.336	33.661	26.016	100	4.082	33.498	26.583
125	3.159	33.472	26.651	125	6.223	33.664	26.469	125	4.125	33.615	26.672
150	3.597	33.570	26.688	150	4.847	33.611	26.592	150	3.430	33.548	26.687
175	2.904	33.519	26.712	175	2.685	33.425	26.655	175	3.032	33.541	26.718
200	2.096	33.458	26.729	200	2.759	33.485	26.697	200	3.535	33.622	26.736
250	2.069	33.516	26.777	250	2.338	33.518	26.758	250	1.781	33.488	26.777
300	2.133	33.574	26.819	300	2.101	33.553	26.804	300	2.225	33.598	26.831

STATION US08351				STATION US08352				STATION US08353			
LATITUDE 44-27.5 N				LATITUDE 44-24.3 N				LATITUDE 44-20.9 N			
LONGITUDE 145-14.1 E				LONGITUDE 145-21.0 E				LONGITUDE 145-27.7 E			
DEPTH (m) 1773				DEPTH (m) 436				DEPTH (m) 1672			
Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T
5	14.188	32.836	24.476	5	13.871	33.857	25.331	5	13.252	33.560	25.228
10	10.982	32.763	25.037	10	13.822	33.853	25.338	10	13.252	33.567	25.233
20	5.712	33.003	26.010	20	13.512	33.891	25.431	20	13.354	33.623	25.255
30	6.804	33.598	26.341	30	13.119	33.882	25.503	30	12.234	33.725	25.554
40	7.382	33.792	26.414	40	12.618	33.861	25.586	40	11.813	33.757	25.659
50	6.644	33.730	26.466	50	11.684	33.853	25.758	50	10.804	33.726	25.819
75	2.713	33.336	26.582	75	10.765	33.858	25.928	75	9.250	33.695	26.056
100	2.139	33.296	26.596	100	7.491	33.726	26.347	100	7.109	33.609	26.308
125	0.785	33.316	26.704	125	4.737	33.529	26.538	125	5.503	33.563	26.477
150	1.886	33.397	26.696	150	3.215	33.484	26.655	150	3.934	33.494	26.595
175	1.964	33.485	26.760	175	2.684	33.460	26.683	175	2.189	33.367	26.649
200	2.324	33.508	26.751	200	2.172	33.477	26.739	200	1.735	33.387	26.699
250	2.760	33.626	26.809	250	2.097	33.562	26.812	250	1.511	33.435	26.753
300	2.035	33.578	26.829	300	2.339	33.613	26.834	300	1.634	33.493	26.792

STATION US08354 LATITUDE 44-18.4 N LONGITUDE 145-33.3 E DEPTH (m) 2388				STATION US08355 LATITUDE 44-13.5 N LONGITUDE 145-27.5 E DEPTH (m) 1818				STATION US08356 LATITUDE 44-08.6 N LONGITUDE 145-20.2 E DEPTH (m) 510			
Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T
5	13.753	33.217	24.860	5	14.037	33.352	24.906	5	14.047	33.307	24.869
10	13.767	33.434	25.025	10	14.036	33.406	24.948	10	14.162	33.559	25.040
20	13.868	33.514	25.066	20	12.716	33.496	25.284	20	11.921	33.567	25.491
30	14.179	33.634	25.094	30	11.681	33.725	25.659	30	11.480	33.637	25.627
40	12.321	33.651	25.481	40	11.587	33.735	25.684	40	10.917	33.656	25.744
50	11.124	33.693	25.736	50	11.264	33.742	25.748	50	10.414	33.645	25.824
75	9.183	33.701	26.072	75	9.639	33.604	25.922	75	8.875	33.669	26.095
100	7.354	33.626	26.288	100	7.403	33.576	26.242	100	6.273	33.519	26.348
125	5.302	33.513	26.461	125	6.143	33.545	26.385	125	3.131	33.354	26.559
150	4.911	33.566	26.549	150	2.881	33.365	26.590	150	1.644	33.347	26.674
175	3.173	33.419	26.607	175	1.738	33.353	26.671	175	1.440	33.371	26.707
200	2.477	33.383	26.638	200	1.395	33.369	26.709	200	0.885	33.332	26.711
250	1.547	33.417	26.736	250	1.093	33.423	26.771	250	1.127	33.434	26.778
300	1.413	33.490	26.805	300	1.130	33.478	26.814	300	1.169	33.475	26.808
				400	1.477	33.603	26.891				
				500	1.566	33.688	26.952				
				600	1.772	33.802	27.029				
				700	2.106	34.000	27.162				
				800	2.235	34.124	27.251				
				900	2.293	34.211	27.316				
				1000	2.293	34.282	27.373				

STATION US08357 LATITUDE 44-07.1 N LONGITUDE 145-22.4 E DEPTH (m) 985				STATION US08358 LATITUDE 44-05.8 N LONGITUDE 145-24.9 E DEPTH (m) 1008				STATION US08359 LATITUDE 44-02.0 N LONGITUDE 145-17.9 E DEPTH (m) 424			
Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T
5	14.466	33.193	24.693	5	14.257	33.331	24.844	5	14.247	32.962	24.561
10	13.730	33.419	25.021	10	13.958	33.391	24.952	10	13.854	33.116	24.762
20	11.783	33.582	25.528	20	12.422	33.527	25.364	20	11.926	33.244	25.239
30	10.608	33.663	25.804	30	10.997	33.606	25.690	30	11.004	33.509	25.614
40	9.932	33.649	25.909	40	9.913	33.650	25.913	40	10.420	33.550	25.749
50	9.562	33.622	25.949	50	9.412	33.652	25.996	50	9.611	33.559	25.892
75	8.645	33.649	26.116	75	8.199	33.663	26.194	75	8.525	33.594	26.091
100	6.104	33.536	26.383	100	6.246	33.549	26.375	100	6.143	33.533	26.376
125	4.246	33.430	26.513	125	4.777	33.474	26.490	125	4.338	33.455	26.523
150	2.354	33.327	26.604	150	3.048	33.362	26.573	150	2.691	33.336	26.583
175	1.489	33.299	26.646	175	1.838	33.308	26.628	175	2.118	33.355	26.645
200	0.865	33.322	26.704	200	1.210	33.304	26.669	200	2.396	33.433	26.685
250	1.306	33.413	26.750	250	0.960	33.360	26.729	250	0.814	33.374	26.749
300	0.944	33.440	26.795	300	1.044	33.438	26.786	300	0.950	33.441	26.795

STATION US08360 LATITUDE 43-55.4 N LONGITUDE 145-15.5 E DEPTH (m) 85				STATION US08361 LATITUDE 43-56.4 N LONGITUDE 145-12.6 E DEPTH (m) 83				STATION US08362 LATITUDE 43-57.4 N LONGITUDE 145-10.5 E DEPTH (m) 82			
Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T
5	14.653	32.807	24.356	5	14.656	32.790	24.342	5	14.980	32.811	24.289
10	14.769	32.887	24.393	10	14.699	32.980	24.480	10	14.076	33.024	24.644
20	13.856	33.270	24.880	20	13.191	33.164	24.933	20	11.750	33.228	25.259
30	11.974	33.385	25.340	30	11.075	33.288	25.429	30	10.563	33.555	25.728
40	11.002	33.425	25.549	40	10.494	33.515	25.708	40	9.909	33.560	25.843
50	10.244	33.547	25.776	50	9.946	33.542	25.822	50	9.483	33.604	25.947
								75	7.663	33.553	26.186

STATION US08363 LATITUDE 43-49.8 N LONGITUDE 145-10.8 E DEPTH (m) 42				STATION US08364 LATITUDE 43-36.3 N LONGITUDE 145-25.9 E DEPTH (m) 23				STATION US08365 LATITUDE 43-33.7 N LONGITUDE 145-23.6 E DEPTH (m) 12			
Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T
5	15.391	32.784	24.179	5	13.143	32.637	24.535	5	13.944	32.578	24.327
10	13.088	33.016	24.839	10	11.890	32.623	24.764				
20	11.532	33.377	25.415								
30	10.340	33.507	25.729								

STATION US08366				STATION US08367				STATION US08368			
LATITUDE 43-29.9 N				LATITUDE 43-30.3 N				LATITUDE 43-26.9 N			
LONGITUDE 145-30.0 E				LONGITUDE 145-34.3 E				LONGITUDE 145-39.9 E			
DEPTH (m) 24				DEPTH (m) 29				DEPTH (m) 31			
Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T
5	13.980	32.346	24.141	5	14.342	32.532	24.209	5	14.505	32.467	24.125
10	12.559	32.580	24.604	10	11.490	32.771	24.952	10	10.927	32.544	24.876
				20	9.905	32.739	25.202	20	9.510	32.857	25.359
STATION US08369				STATION US08370				STATION US08371			
LATITUDE 43-24.7 N				LATITUDE 43-22.4 N				LATITUDE 43-27.5 N			
LONGITUDE 145-36.0 E				LONGITUDE 145-32.0 E				LONGITUDE 145-26.0 E			
DEPTH (m) 26				DEPTH (m) 18				DEPTH (m) 20			
Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T
5	15.098	32.282	23.857	5	15.962	32.142	23.559	5	13.988	32.588	24.326
10	12.534	32.574	24.605	10	12.557	32.838	24.804	10	12.619	32.579	24.592
20	8.739	32.695	25.354								
STATION US08372				STATION US08373				STATION US08374			
LATITUDE 43-31.2 N				LATITUDE 43-30.3 N				LATITUDE 43-25.4 N			
LONGITUDE 145-20.0 E				LONGITUDE 145-17.9 E				LONGITUDE 145-21.6 E			
DEPTH (m) 7				DEPTH (m) 7				DEPTH (m) 11			
Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T
5	14.334	32.411	24.117	5	14.631	32.382	24.033	5	14.310	32.356	24.080
STATION US08375				STATION US08376				STATION US08377			
LATITUDE 43-24.3 N				LATITUDE 43-19.5 N				LATITUDE 43-20.4 N			
LONGITUDE 145-20.1 E				LONGITUDE 145-25.6 E				LONGITUDE 145-27.5 E			
DEPTH (m) 9				DEPTH (m) 12				DEPTH (m) 15			
Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T
5	13.929	32.427	24.214	5	15.894	31.772	23.290	5	16.426	31.814	23.202
								10	11.943	32.367	24.559
STATION US08378				STATION US08379				STATION US08380			
LATITUDE 41-58.9 N				LATITUDE 41-58.4 N				LATITUDE 41-57.9 N			
LONGITUDE 141-00.9 E				LONGITUDE 140-59.9 E				LONGITUDE 140-59.0 E			
DEPTH (m) 96				DEPTH (m) 89				DEPTH (m) 84			
Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T
5	21.345	32.004	22.122	5	20.936	32.017	22.242	5	21.082	31.989	22.182
10	18.149	32.926	23.647	10	19.821	32.619	22.993	10	20.545	32.317	22.574
20	11.719	33.624	25.573	20	14.174	33.426	24.935	20	15.427	33.372	24.624
30	10.654	33.760	25.871	30	11.114	33.824	25.839	30	10.797	33.662	25.769
40	9.317	33.780	26.112	40	9.664	33.851	26.111	40	10.302	33.900	26.042
50	8.600	33.772	26.219	50	9.495	33.946	26.213	50	9.385	33.915	26.207
75	8.486	33.834	26.285	75	8.365	33.828	26.299	75	8.101	33.791	26.309
STATION US08381				STATION US08382				STATION US08383			
LATITUDE 41-57.4 N				LATITUDE 42-23.3 N				LATITUDE 42-28.9 N			
LONGITUDE 140-58.2 E				LONGITUDE 140-43.0 E				LONGITUDE 140-31.4 E			
DEPTH (m) 79				DEPTH (m) 59				DEPTH (m) 75			
Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T
5	20.970	32.054	22.261	5	20.781	31.921	22.210	5	20.934	31.996	22.227
10	20.514	32.141	22.448	10	20.859	32.044	22.283	10	20.987	32.076	22.273
20	14.203	32.995	24.596	20	19.030	32.124	22.817	20	17.459	32.894	23.790
30	10.856	33.470	25.610	30	13.829	32.813	24.533	30	9.057	32.528	25.174
40	10.094	33.771	25.976	40	8.932	33.246	25.755	40	7.928	33.072	25.770
50	8.671	33.662	26.122	50	7.794	33.359	26.015	50	7.514	33.374	26.067
75	6.004	33.485	26.355								

STATION US08384				STATION US08385				STATION US08386			
LATITUDE 42-19.1 N				LATITUDE 42-16.2 N				LATITUDE 42-11.6 N			
LONGITUDE 140-30.6 E				LONGITUDE 140-35.5 E				LONGITUDE 140-35.8 E			
DEPTH (m) 92				DEPTH (m) 90				DEPTH (m) 83			
Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T
5	20.857	31.960	22.220	5	20.778	31.964	22.244	5	20.729	31.995	22.280
10	20.863	31.976	22.230	10	20.793	31.970	22.244	10	20.259	32.012	22.417
20	17.651	32.283	23.276	20	17.667	32.316	23.298	20	13.543	32.619	24.440
30	13.455	33.114	24.840	30	14.211	32.982	24.584	30	11.779	33.283	25.297
40	8.780	32.958	25.554	40	8.388	32.641	25.364	40	7.653	32.976	25.735
50	6.436	33.058	25.963	50	6.052	32.951	25.927	50	5.778	32.992	25.993
75	3.667	33.339	26.497	75	6.382	33.674	26.456	75	4.326	33.287	26.390

STATION US08387				STATION US08388				STATION US08389			
LATITUDE 42-22.7 N				LATITUDE 42-22.7 N				LATITUDE 42-25.8 N			
LONGITUDE 140-25.5 E				LONGITUDE 140-30.0 E				LONGITUDE 140-37.0 E			
DEPTH (m) 73				DEPTH (m) 95				DEPTH (m) 84			
Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T
5	20.409	31.983	22.356	5	20.823	31.899	22.182	5	20.589	31.933	22.270
10	19.482	32.089	22.676	10	20.824	31.924	22.201	10	20.578	31.932	22.272
20	15.310	32.561	24.025	20	18.336	32.372	23.178	20	19.800	32.252	22.719
30	9.057	32.583	25.217	30	14.924	33.108	24.530	30	15.786	32.825	24.123
40	7.786	32.978	25.717	40	8.680	32.930	25.547	40	9.373	32.922	25.432
50	7.241	33.261	26.016	50	7.597	33.279	25.981	50	8.048	33.219	25.868
				75	4.152	33.397	26.496	75	5.263	33.351	26.338

STATION US08390				STATION US08391			
LATITUDE 42-21.1 N				LATITUDE 42-18.0 N			
LONGITUDE 140-38.7 E				LONGITUDE 140-40.4 E			
DEPTH (m) 80				DEPTH (m) 77			
Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T
5	20.598	31.994	22.314	5	20.621	31.923	22.254
10	20.571	32.004	22.329	10	20.513	31.964	22.314
20	20.521	32.030	22.362	20	20.239	32.113	22.499
30	15.421	32.700	24.108	30	13.947	32.728	24.443
40	8.837	32.908	25.506	40	8.804	33.023	25.601
50	8.411	33.467	26.009	50	6.341	33.153	26.051
75	5.427	33.465	26.409	75	6.122	33.553	26.394

