HOKKAIDO UNIVERSITY

Title	10. The "Ushio Maru" Cruise 242, 243, 244 and 245 in November - December 2011
Citation	海洋調査漁業試験要報, 55, 215-225
Issue Date	2013-03-29
Doc URL	https://hdl.handle.net/2115/77173
Type	dataset
File Information	Data.Rec.Oceanogr.Obs.Expl.Fish.55.215.pdf

Hokkaido University Collection of Scholarly and Academic Papers : HUSCAP

10

THE " USHIO MARU "

CRUISE 242
CRUISE 243
CRUISE 244
CRUISE 245

IN NOVEMBER - DECEMBER 2011

1. Cruise Itinerary

Cruise 242			
Departure from Hakodate	Nov.	14,	2011
Start hydrographic research (US11722)		14	
Arrival at Hakodate		16	
Departure from Hakodate		17	
Finish hydrographic research (US11745)		18	
Return to Hakodate		19	
Total coverage 344.8 miles			

Cruise 243			
Departure from Hakodate	Nov.	28,	2011
Start hydrographic research (US11746)		28	
Arrival at Fukushima		28	
Departure from Fukushima		29	
Finish hydrographic research (US11769)		29	
Return to Hakodate		29	
Total coverage 121.1 miles			

Cruise 244			
Departure from Hakodate	Dec.	12,	2011
Start hydrographic research (US11770)		13	
Arrival at Usujiri		13	
Departure from Usujiri		14	
Retrieval mooring ADCP system		14	
Arrival at and departure from Mori		14	
Arrival at Muroran (anchorage)		14	
Departure from Muroran		15	
Set mooring ADCP system		15	
Arrival at and departure from Usujiri		15	
Finish hydrographic research (US11788)		15	
Return to Hakodate		16	
Total coverage 346.3 miles			

Cruise 245			
Departure from Hakodate	Dec.	20,	2011
Start hydrographic research (US11789)		20	
Arrival at Fukushima		20	
Departure from Fukushima		21	
Finish hydrographic research (US11818)		21	
Return to Hakodate		22	
Total coverage 147.8 miles			

2. 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".

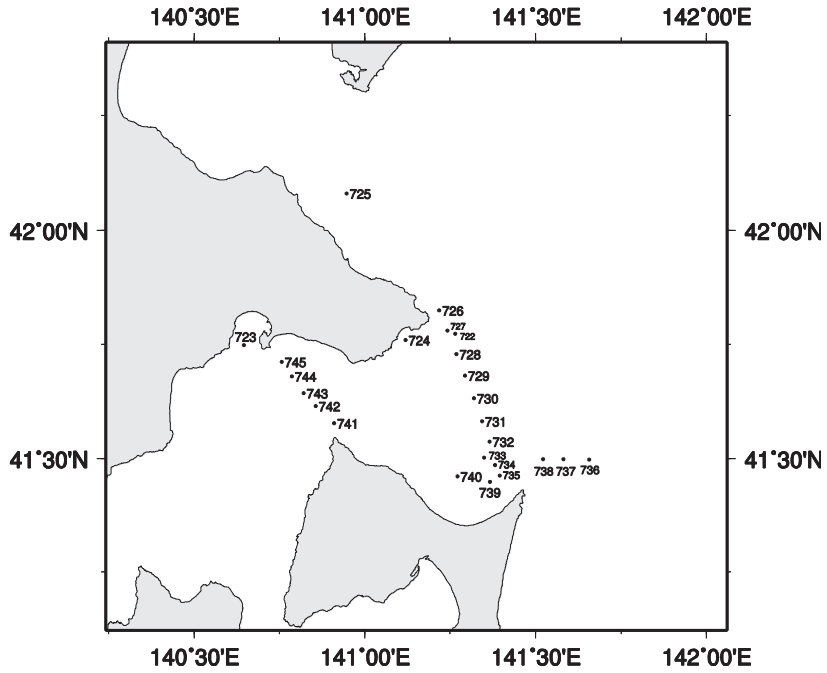

Figure 1. Oceanographic stations (Cruise 242)

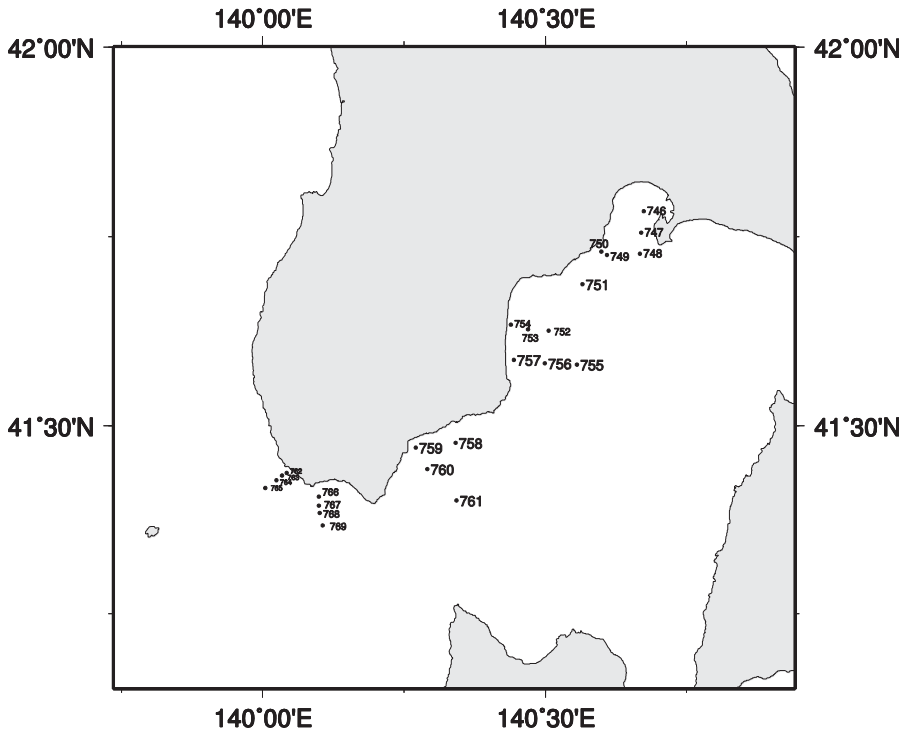

Figure 2. Oceanographic stations (Cruise 243)

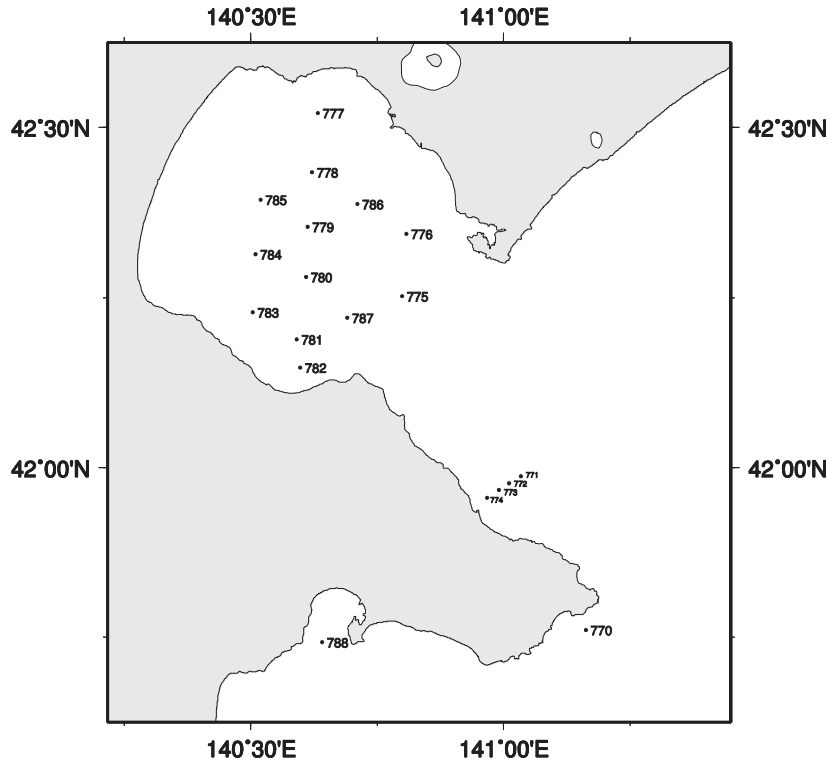

Figure 3. Oceanographic stations (Cruise 244)

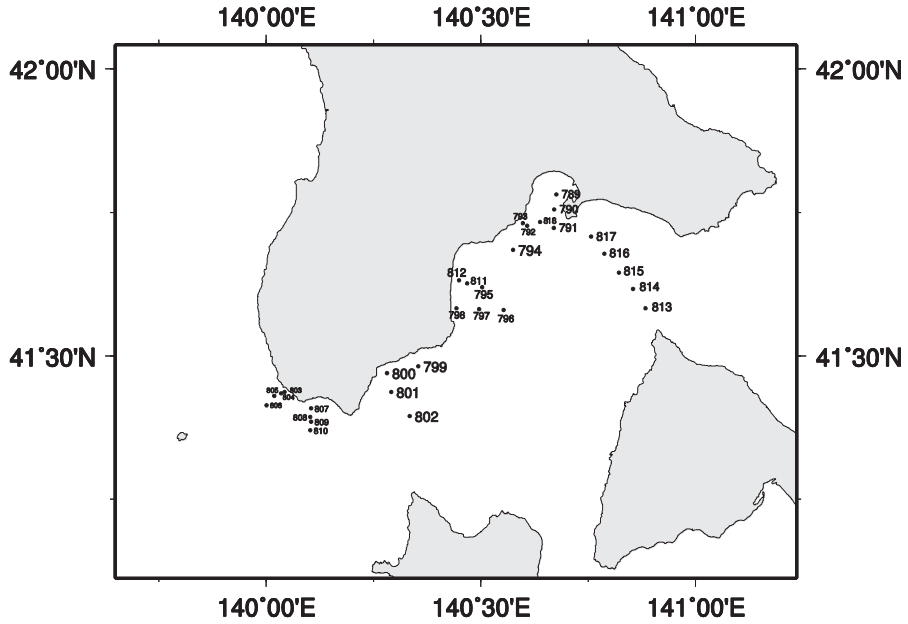

Figure 4. Oceanographic stations (Cruise 245)

Table 1: List of oceanographic stations

Cruise 242

Station	Lat. (N)*	Long (E)*	Date	S.M.T	Depth	Wave	Swell	Wind	Air Temp.	Sea Temp.	Wr.	Bar. (hPa)
US11722	41-46.5	141-15.8	11/14	1849-1855	211	West-3	NW -1	West-5	6.6	13.7	bc	1018.1
US11723	41-45.0	140-38.7	11/16	0549-0552	48	WNW-1	SW -1	WNW-3	2.3	14.3	s	1024.1
US11724	41-45.7	141-07.1	11/18	0347-0350	53	NW -1	WSW-1	NW -3	3.6	13.3	bc	1027.6
US11725	42-04.9	140-56.7	11/18	0639-0647	81	SW -1	SW -1	SW -3	6.8	12.8	bc	1026.0
US11726	41-49.6	141-13.0	11/18	0901-0915	171	SE -1	SE -1	SE -3	9.4	13.1	bc	1024.2
US11727	41-46.9	141-14.4	11/18	1023-1037	193	SSW-3	SW -1	SSW-5	10.2	12.8	c	1023.1
US11728	41-43.8	141-16.0	11/18	1100-1115	228	SW -3	SW -1	SW -5	10.4	12.9	c	1023.0
US11729	41-41.0	141-47.5	11/18	1155-1210	232	SW -2	SW -1	SW -4	11.1	12.6	c	1022.1
US11730	41-38.0	141-19.1	11/18	1238-1251	215	SW -3	SW -1	SW -5	11.6	12.8	c	1021.4
US11731	41-35.0	141-20.5	11/18	1331-1349	313	SW -3	SW -1	SW -5	12.2	13.8	c	1020.6
US11732	41-32.3	141-21.8	11/18	1411-1425	260	SW -2	SW -1	SW -4	12.8	14.8	c	1020.6
US11733	41-30.2	141-20.9	11/18	1444-1453	230	SW -2	SW -1	SW -4	12.9	14.7	c	1020.6
US11734	41-29.2	141-22.8	11/18	1505-1515	129	SW -2	SW -1	SW -4	13.2	14.7	c	1020.6
US11735	41-27.8	141-23.6	11/18	1527-1533	61	SSW-2	SW -1	SSW-4	13.0	14.6	bc	1020.1
US11736	41-29.9	141-39.3	11/18	1644-1706	607	SSW-3	South-1	SSW-5	12.6	15.2	bc	1020.3
US11737	41-30.0	141-34.8	11/18	1732-1737	108	SSW-3	SSW-1	SSW-5	12.7	15.0	bc	1019.1
US11738	41-30.0	141-31.2	11/18	1758-1802	67	SSW-3	SSW-1	SSW-5	12.6	15.2	c	1019.1
US11739	41-27.0	141-21.9	11/18	1852-1856	71	South-3	SSW-1	South-5	12.2	14.7	c	1018.6
US11740	41-27.7	141-16.2	11/18	1922-1928	154	South-2	SSW-1	South-4	12.5	14.7	c	1018.6
US11741	41-34.7	140-54.5	11/18	2108-2112	52	SSW-2	SSW-1	SSW-4	12.7	14.8	c	1017.6
US11742	41-37.0	140-51.3	11/18	2133-2137	95	SSW-2	SSW-1	SSW-4	13.3	14.9	c	1017.1
US11743	41-38.7	140-49.2	11/18	2153-2204	340	SSW-2	SSW-1	SSW-4	13.4	13.8	c	1016.7
US11744	41-40.9	140-47.1	11/18	2220-2227	212	SSW-2	SSW-1	SSW-4	13.3	13.1	c	1016.1
US11745	41-42.8	140-45.3	11/18	2244-2250	83	SSW-2	SSW-1	SSW-4	13.2	13.0	c	1016.1

Cruise 243

Station	Lat. (N)*	Long (E)*	Date	S.M.T	Depth	Wave	Swell	Wind	Air Temp.	Sea Temp.	Wr.	Bar. (hPa)
US11746	41-47.1	140-40.4	11/28	0849-0851	19	North-1	SW -1	North-2	3.8	10.4	bc	1027.2
US11747	41-45.4	140-40.1	11/28	0911-0913	39	North-1	South-1	North-2	5.5	13.3	bc	1027.2
US11748	41-43.7	140-40.0	11/28	0939-0936	63	NNW-1	South-1	NNW-3	6.7	13.5	bc	1027.2
US11749	41-43.6	140-36.5	11/28	1002-1004	36	North-1	South-1	North-2	7.2	13.5	bc	1027.6
US11750	41-43.9	140-35.9	11/28	1009-1011	11	NNW-1	South-1	NNW-3	7	11.3	bc	1027.6
US11751	41-41.3	140-33.9	11/28	1045-1047	36	NNE-1	South-1	NNE-3	8.3	11.9	c	1027.5
US11752	41-37.6	140-30.3	11/28	1122-1124	30	Calm	South-1	Calm	8	12.7	c	1026.8
US11753	41-37.7	140-28.1	11/28	1143-1144	19	Calm	South-1	Calm	8.3	12.1	c	1026.5
US11754	41-38.1	140-26.3	11/28	1201-1202	12	Calm	South-1	Calm	8.5	11.9	o	1026.2
US11755	41-34.9	140-33.3	11/28	1249-1251	59	Calm	South-1	Calm	9.1	12.5	o	1026.1
US11756	41-35.0	140-29.9	11/28	1328-1331	45	NW -1	South-1	NW -2	8.9	12.6	o	1025.6
US11757	41-35.3	140-26.6	11/28	1404-1415	12	Calm	South-1	Calm	8.7	11.6	o	1025.1
US11758	41-28.7	140-20.4	11/28	1515-1518	60	NE -1	South-1	NE -2	10.7	13.5	o	1025
US11759	41-28.3	140-16.2	11/29	0632-0633	11	NW -1	South-1	NW -3	11	14.3	o	1021.1
US11760	41-26.6	140-17.4	11/29	0657-0659	63	Calm	SW -1	Calm	11.6	14	o	1022.1
US11761	41-24.1	140-20.5	11/29	0740-0744	93	Calm	SW -1	Calm	12.8	13.6	o	1022.1
US11762	41-26.3	140-02.5	11/29	0925-0926	26	NW -3	West-1	NW -5	11.3	14.3	o	1022.6
US11763	41-26.1	140-02.0	11/29	0940-0943	45	NW -3	West-1	NW -5	11.6	14.4	o	1022.6
US11764	41-25.7	140-01.4	11/29	0956-1000	83	NW -3	West-1	NW -5	11.5	14.8	o	1022.7
US11765	41-25.1	140-00.2	11/29	1017-1022	104	NNW-3	NW -1	NNW-5	11.2	15.2	o	1022.7
US11766	41-24.4	140-05.9	11/29	1104-1106	56	WNW-2	NW -1	WNW-4	11.3	13.8	o	1022.1
US11767	41-23.7	140-05.9	11/29	1119-1123	93	NW -2	NW -1	NW-4	11.8	13.9	o	1022.1
US11768	41-23.1	140-06.0	11/29	1136-1141	105	NW -3	NW -1	NW -5	11.7	13.6	o	1022.1
US11769	41-22.1	140-06.3	11/29	1156-1201	118	NW -3	NW -1	NW -5	11.7	13.8	o	1021.6

Cruise 244

Station	Lat. (N)*	Long (E)*	Date	S.M.T	Depth	Wave	Swell	Wind	Air Temp.	Sea Temp.	Wr.	Bar. (hPa)
US11770	41-45.7	141-09.7	12/12	0647-0653	113	West-2	SW -2	West-3	-0.8	8.8	bc	1023.5
US11771	41-59.3	141-02.0	12/13	1132-1136	101	West-3	NW -1	West-5	1.4	7.6	bc	1024.5
US11772	41-58.7	141-00.6	12/13	1144-1148	93	West-3	NW -1	West-5	1.3	7.7	bc	1024.5
US11773	41-58.1	140-59.4	12/13	1155-1159	85	WNW-3	NW -1	WNW-5	1.1	8	s	1024.2
US11774	41-57.4	140-58.0	12/13	1207-1210	75	NW -3	NW -1	NW -5	1.1	8.6	bc	1024.6
US11775	42-15.2	140-47.9	12/14	0815-0818	70	SSW-1	West-1	SSW-2	3.4	8.7	bc	1022.2
US11776	42-20.7	140-48.4	12/14	0909-0912	52	East-1	West-1	East-2	3.4	8.6	bc	1022.1
US11777	42-31.3	140-37.9	12/14	1038-1042	59	Calm	NW -1	Calm	2.7	8.6	c	1021.5
US11778	42-26.1	140-37.2	12/14	1129-1134	82	SE -1	NW -1	SE -3	4.2	8.8	bc	1020.5
US11779	42-21.3	140-36.7	12/14	1239-1243	86	South-1	NW -1	South-1	4.9	8.8	c	1019.6
US11780	42-16.9	140-36.5	12/14	1318-1223	89	South-1	NW -1	South-2	4.9	8.7	c	1018.6
US11781	42-11.4	140-35.4	12/14	1449-1453	81	South-2	NW -1	South-4	5.3	8.6	c	1017.1
US11782	42-08.9	140-35.8	12/14	1519-1523	65	South-2	South-1	South-4	4.4	8.6	c	1016.7
US11783	42-13.8	140-30.2	12/14	1655-1658	78	SSE-2	NW -1	SSE-4	4.3	8.6	r	1015.5
US11784	42-18.9	140-30.5	12/14	1737-1742	92	East-2	NW -1	East-4	4.1	8.7	r	1014.1
US11785	42-23.7	140-31.1	12/14	1815-1820	94	SE -2	ESE-1	SE -4	5.6	8.9	r	1014
US11786	42-23.3	140-42.6	12/14	1913-1916	61	SSE-3	SE -1	SSE-5	4.3	8.8	r	1013.6
US11787	42-13.3	140-41.4	12/15	0646-0650	89	West-4	West-1	West-6	4	8.6	o	1010
US11788	41-44.6	140-38.4	12/15	1424-1427	49	NW -3	West-1	NW -5	0.7	11.2	s	1011.1

Cruise 245

Station	Lat. (N)*	Long (E)*	Date	S.M.T	Depth	Wave	Swell	Wind	Air Temp.	Sea Temp.	Wr.	Bar. (hPa)
US11789	41-47.0	140-40.5	12/20	0840-0842	20	NW -1	SW -1	NW -2	-4.1	8.8	bc	1020.6
US11790	41-45.4	140-40.2	12/20	0900-0902	39	West-1	SW -1	West-3	-3.6	10.2	bc	1020.7
US11791	41-43.5	140-40.1	12/20	0922-0925	66	West-2	SW -1	West-4	-3	10.5	bc	1020.8
US11792	41-43.7	140-36.4	12/20	0952-0954	31	West-1	SW -1	West-2	-3.5	10.5	bc	1021.1
US11793	41-44.0	140-35.8	12/20	0958-0959	12	NW -1	SW -1	NW -3	-3.4	9.8	bc	1021.2
US11794	41-41.2	140-34.4	12/20	1036-1039	41	NW -1	SW -1	NW -3	-3	10.4	s	1021.2
US11795	41-37.3	140-30.1	12/20	1117-1120	32	WNW-3	SW -1	WNW-5	-2.3	10	s	1021
US11796	41-34.9	140-33.1	12/20	1208-1211	59	WNW-3	SW -1	WNW-5	-2.6	10.4	s	1020.7
US11797	41-35.0	140-29.7	12/20	1243-1245	43	NW -3	SSW-1	NW -5	-2.4	10.4	s	1020.6
US11798	41-35.1	140-26.5	12/20	1317-1318	12	NNW-1	SSE-1	NNW-3	-2.8	9.7	s	1020.6
US11799	41-29.0	140-21.2	12/20	1420-1423	63	West-3	SSW-1	West-3	-2.5	9.8	s	1020.8
US11800	41-28.3	140-16.8	12/20	1501-1503	27	NW -2	South-1	NW -4	-2.3	10.3	s	1021
US11801	41-26.3	140-17.4	12/21	0722-0725	68	NW -1	SSW-1	NW -2	-2.9	10	o	1024.3
US11802	41-23.8	140-20.0	12/21	0753-0757	97	NW -1	SW -1	NW -2	-2.1	9	s	1024.2
US11803	41-26.3	140-02.5	12/21	0933-0935	31	NW -2	WNW-1	NW -3	0.2	9.7	bc	1024.2
US11804	41-26.2	140-02.0	12/21	0949-0952	44	NW -2	WNW-1	NW -3	0.2	9.6	bc	1024.2
US11805	41-25.9	140-01.1	12/21	1007-1011	83	NW -2	West-1	NW -4	0.7	9.8	bc	1024.2
US11806	41-24.9	140-00.0	12/21	1028-1033	112	West-2	West-1	West-4	0.8	9.6	bc	1024.1
US11807	41-24.6	140-06.2	12/21	1117-1120	48	West-2	WSW-1	West-3	0.9	10.5	c	1023.6
US11808	41-23.7	140-06.1	12/21	1135-1139	90	WNW-2	West-1	WNW-4	1.1	10.5	bc	1023.4
US11809	41-23.2	140-06.2	12/21	1151-1155	100	West-2	West-1	West-1	1.6	10	bc	1024.1
US11810	41-22.3	140-06.1	12/21	1213-1218	118	West-1	West-1	West-2	1.6	11.5	bc	1023
US11811	41-37.7	140-28.0	12/21	1507-1508	18	NW -1	SE -1	NW -2	0.9	10.2	bc	1022.1
US11812	41-38.0	140-26.9	12/21	1522-1523	16	NW -1	SE -1	NW -3	0.6	10.1	bc	1022.2
US11813	41-35.1	140-52.9	12/21	1713-1715	36	Calm	NW -1	Calm	1.4	11.5	bc	1022.2
US11814	41-37.1	140-51.2	12/21	1736-1740	98	Calm	NW -1	Calm	1.2	11.4	c	1022.1
US11815	41-38.8	140-49.2	12/21	1756-1809	339	NNE-1	NW -1	NNE-3	1.9	11.3	s	1022.1
US11816	41-40.8	140-47.2	12/21	1825-1834	223	North-1	NW -1	North-3	1.3	11.2	s	1022.1
US11817	41-42.6	140-45.3	12/21	1852-1856	86	North-1	WNW-1	North-3	1.3	11.5	o	1022.1
US11818	41-44.1	140-38.2	12/21	1955-1958	53	North-1	SW -1	North-3	0.1	10.8	s	1022.2

(*): Fixed position by Global Positioning System

Table 2: Oceanographic data

STATION US11722
LATITUDE 41-46.5 N
LONGITUDE 141-15.8 E
DEPTH (m) 211

Press.	Temp.	Salinity	Sigma-T
5	13.734	33.767	25.290
10	13.722	33.767	25.292
20	13.712	33.769	25.295
30	13.632	33.778	25.319
40	12.356	33.531	25.380
50	12.669	34.012	25.693
75	10.189	33.731	25.929
100	9.915	33.838	26.059
125	8.769	33.869	26.269
150	7.909	33.849	26.384

STATION US11723
LATITUDE 41-45.0 N
LONGITUDE 140-38.7 E
DEPTH (m) 48

Press.	Temp.	Salinity	Sigma-T
5	14.495	33.933	25.258
10	14.497	33.926	25.252
20	14.539	33.950	25.262
30	14.527	33.984	25.290
40	14.253	34.058	25.406

STATION US11724
LATITUDE 41-45.7 N
LONGITUDE 141-07.1 E
DEPTH (m) 53

Press.	Temp.	Salinity	Sigma-T
5	13.460	33.839	25.401
10	13.462	33.839	25.401
20	13.356	33.834	25.418
30	13.255	33.830	25.436
40	13.197	33.838	25.454
50	13.144	33.844	25.469

STATION US11725
LATITUDE 42-04.9 N
LONGITUDE 140-56.7 E
DEPTH (m) 81

Press.	Temp.	Salinity	Sigma-T
5	13.011	33.820	25.476
10	13.021	33.820	25.474
20	13.016	33.818	25.474
30	13.002	33.813	25.473
40	13.009	33.815	25.473
50	13.018	33.817	25.473
75	12.806	33.814	25.513

STATION US11726
LATITUDE 41-49.6 N
LONGITUDE 141-13.0 E
DEPTH (m) 171

Press.	Temp.	Salinity	Sigma-T
5	13.100	33.667	25.341
10	13.181	33.835	25.455
20	13.039	33.843	25.489
30	13.036	33.849	25.494
40	13.019	33.851	25.499
50	12.782	33.857	25.550
75	9.592	33.959	26.207
100	8.487	33.840	26.290
125	7.429	33.794	26.410
150	7.207	33.777	26.427

STATION US11727
LATITUDE 41-46.9 N
LONGITUDE 141-14.4 E
DEPTH (m) 193

Press.	Temp.	Salinity	Sigma-T
5	13.089	33.859	25.492
10	13.092	33.859	25.491
20	13.088	33.858	25.491
30	13.082	33.858	25.492
40	13.068	33.858	25.495
50	12.994	33.877	25.524
75	11.032	34.070	26.045
100	10.012	34.013	26.179
125	7.642	33.833	26.409
150	6.772	33.762	26.475
175	4.700	33.587	26.588

STATION US11728
LATITUDE 41-43.8 N
LONGITUDE 141-16.0 E
DEPTH (m) 228

Press.	Temp.	Salinity	Sigma-T
5	14.286	33.924	25.296
10	14.289	33.922	25.293
20	14.160	33.942	25.336
30	13.995	33.954	25.380
40	13.514	33.964	25.487
50	12.449	33.962	25.697
75	10.489	33.918	26.023
100	9.169	33.890	26.222
125	7.501	33.817	26.417
150	5.982	33.681	26.513
175	4.842	33.607	26.589
200	3.311	33.526	26.680

STATION US11729
LATITUDE 41-41.0 N
LONGITUDE 141-47.5 E
DEPTH (m) 232

Press.	Temp.	Salinity	Sigma-T
5	12.990	33.985	25.608
10	12.658	34.006	25.691
20	12.500	34.019	25.731
30	12.397	34.025	25.756
40	12.295	34.026	25.777
50	12.233	34.027	25.789
75	11.692	34.007	25.876
100	10.139	33.930	26.093
125	8.180	33.839	26.335
150	6.845	33.778	26.477
175	5.647	33.724	26.588
200	3.996	33.643	26.707

STATION US11730
LATITUDE 41-38.0 N
LONGITUDE 141-19.1 E
DEPTH (m) 215

Press.	Temp.	Salinity	Sigma-T
5	13.020	33.966	25.588
10	13.040	34.003	25.613
20	12.994	34.003	25.622
30	12.995	34.004	25.622
40	12.852	34.005	25.652
50	12.699	34.007	25.683
75	12.359	33.994	25.739
100	9.626	33.863	26.127
125	7.486	33.810	26.414
150	7.276	33.809	26.443
175	7.224	33.810	26.450
200	6.370	33.771	26.535

STATION US11731
LATITUDE 41-35.0 N
LONGITUDE 141-20.5 E
DEPTH (m) 313

Press.	Temp.	Salinity	Sigma-T
5	14.771	33.875	25.154
10	14.756	33.885	25.165
20	14.747	33.890	25.171
30	14.748	33.895	25.175
40	14.571	33.964	25.266
50	14.486	33.966	25.286
75	14.042	33.958	25.373
100	13.896	34.000	25.436
125	13.795	34.008	25.463
150	12.875	34.061	25.690
175	9.961	33.969	26.153
200	8.892	33.961	26.321
250	8.974	33.999	26.339
300	4.838	33.712	26.672

STATION US11732
LATITUDE 41-32.3 N
LONGITUDE 141-21.8 E
DEPTH (m) 260

Press.	Temp.	Salinity	Sigma-T
5	14.972	33.875	25.111
10	14.982	33.873	25.107
20	14.949	33.875	25.116
30	14.952	33.876	25.115
40	14.794	33.890	25.161
50	14.796	33.891	25.161
75	14.643	33.905	25.205
100	13.668	34.011	25.492
125	13.236	34.071	25.626
150	12.996	34.082	25.683
175	12.804	34.070	25.711
200	12.435	34.136	25.835

STATION US11733
LATITUDE 41-30.2 N
LONGITUDE 141-20.9 E
DEPTH (m) 230

Press.	Temp.	Salinity	Sigma-T
5	14.954	33.846	25.092
10	14.953	33.846	25.093
20	14.959	33.845	25.090
30	14.934	33.853	25.102
40	14.895	33.862	25.117
50	14.829	33.875	25.142
75	14.660	33.901	25.198
100	13.167	34.059	25.630
125	12.692	34.104	25.760
150	12.392	34.140	25.846
175	12.357	34.157	25.866
200	11.288	34.170	26.077

STATION US11734
LATITUDE 41-29.2 N
LONGITUDE 141-22.8 E
DEPTH (m) 129

Press.	Temp.	Salinity	Sigma-T
5	14.983	33.861	25.098
10	14.979	33.859	25.097
20	14.970	33.859	25.099
30	14.906	33.865	25.118
40	14.875	33.869	25.127
50	14.856	33.871	25.133
75	14.125	33.944	25.345
100	12.357	34.118	25.836

STATION US11735
LATITUDE 41-27.8 N
LONGITUDE 141-23.6 E
DEPTH (m) 61

Press.	Temp.	Salinity	Sigma-T
5	15.238	33.815	25.007
10	15.182	33.821	25.023
20	14.958	33.840	25.087
30	14.857	33.854	25.120
40	14.720	33.879	25.168
50	14.699	33.884	25.177

STATION US11736
LATITUDE 41-29.9 N
LONGITUDE 141-39.3 E
DEPTH (m) 607

Press.	Temp.	Salinity	Sigma-T
5	15.335	33.810	24.981
10	15.286	33.817	24.998
20	15.194	33.831	25.028
30	15.138	33.840	25.048
40	15.130	33.842	25.051
50	15.117	33.843	25.055
75	15.003	33.858	25.091
100	14.973	33.859	25.098
125	14.908	33.864	25.116
150	14.879	33.867	25.125
175	14.425	33.921	25.264
200	13.411	33.958	25.503
250	5.241	33.590	26.530
300	2.395	33.521	26.755
400	2.831	33.711	26.871
500	3.455	33.973	27.023

STATION US11737
LATITUDE 41-30.0 N
LONGITUDE 141-34.8 E
DEPTH (m) 108

Press.	Temp.	Salinity	Sigma-T
5	15.427	33.799	24.953
10	15.393	33.806	24.965
20	15.187	33.839	25.036
30	15.114	33.846	25.057
40	15.020	33.855	25.085
50	14.952	33.860	25.104
75	14.789	33.875	25.151
100	14.553	33.877	25.203

STATION US11738
LATITUDE 41-30.0 N
LONGITUDE 141-31.2 E
DEPTH (m) 67

Press.	Temp.	Salinity	Sigma-T
5	15.392	33.804	24.963
10	15.256	33.822	25.008
20	15.160	33.839	25.042
30	15.065	33.844	25.067
40	14.977	33.852	25.092
50	14.834	33.867	25.135

STATION US11739
LATITUDE 41-27.0 N
LONGITUDE 141-21.9 E
DEPTH (m) 71

Press.	Temp.	Salinity	Sigma-T
5	14.914	33.857	25.110
10	14.915	33.859	25.111
20	14.843	33.869	25.134
30	14.324	33.913	25.279
40	12.965	34.063	25.674
50	13.124	34.062	25.642

STATION US11740
LATITUDE 41-27.7 N
LONGITUDE 141-16.2 E
DEPTH (m) 154

Press.	Temp.	Salinity	Sigma-T
5	14.877	33.851	25.113
10	14.886	33.850	25.110
20	14.881	33.852	25.113
30	14.832	33.862	25.131
40	14.779	33.872	25.150
50	14.486	33.911	25.243
75	13.412	34.026	25.556
100	12.638	34.122	25.784
125	12.164	34.151	25.899

STATION US11741
LATITUDE 41-34.7 N
LONGITUDE 140-54.5 E
DEPTH (m) 52

Press.	Temp.	Salinity	Sigma-T
5	15.110	33.808	25.029
10	15.105	33.808	25.030
20	15.111	33.808	25.029
30	15.139	33.806	25.021
40	15.128	33.808	25.025

STATION US11742
LATITUDE 41-37.0 N
LONGITUDE 140-51.3 E
DEPTH (m) 95

Press.	Temp.	Salinity	Sigma-T
5	14.703	33.819	25.126
10	14.673	33.821	25.134
20	14.508	33.851	25.192
30	14.474	33.862	25.208
40	14.484	33.861	25.205
50	14.487	33.863	25.206
75	13.607	33.973	25.475

STATION US11743
LATITUDE 41-38.7 N
LONGITUDE 140-49.2 E
DEPTH (m) 340

Press.	Temp.	Salinity	Sigma-T
5	13.683	33.904	25.406
10	13.685	33.908	25.409
20	13.666	33.915	25.417
30	12.635	34.116	25.780
40	12.084	34.187	25.941
50	11.377	34.207	26.089
75	11.391	34.215	26.093
100	11.229	34.225	26.131
125	11.254	34.225	26.126
150	11.247	34.238	26.137
175	11.282	34.249	26.140
200	11.190	34.252	26.158
250	10.109	34.201	26.310
300	9.485	34.175	26.394

STATION US11744
LATITUDE 41-40.9 N
LONGITUDE 140-47.1 E
DEPTH (m) 212

Press.	Temp.	Salinity	Sigma-T
5	13.167	33.927	25.528
10	13.174	33.927	25.527
20	13.149	33.929	25.534
30	13.098	33.935	25.548
40	12.255	33.986	25.753
50	12.069	34.065	25.850
75	12.219	34.053	25.812
100	11.918	34.110	25.913
125	11.341	34.224	26.109
150	11.269	34.231	26.128
175	10.997	34.224	26.172
200	9.406	34.145	26.383

STATION US11745
LATITUDE 41-42.8 N
LONGITUDE 140-45.3 E
DEPTH (m) 83

Press.	Temp.	Salinity	Sigma-T
5	12.978	33.964	25.595
10	12.957	33.975	25.607
20	12.941	33.986	25.619
30	12.921	33.994	25.630
40	12.910	33.999	25.635
50	12.915	34.005	25.639
75	12.709	34.038	25.705

STATION US11746
LATITUDE 41-47.1 N
LONGITUDE 140-40.4 E
DEPTH (m) 19

Press.	Temp.	Salinity	Sigma-T
5	13.447	33.523	25.159
10	13.978	33.755	25.230

STATION US11747
LATITUDE 41-45.4 N
LONGITUDE 140-40.1 E
DEPTH (m) 39

Press.	Temp.	Salinity	Sigma-T
5	13.645	33.837	25.362
10	13.637	33.834	25.361
20	13.633	33.831	25.359
30	13.554	33.840	25.382

STATION US11748
LATITUDE 41-43.7 N
LONGITUDE 140-40.0 E
DEPTH (m) 63

Press.	Temp.	Salinity	Sigma-T
5	13.775	33.850	25.345
10	13.783	33.848	25.342
20	13.778	33.847	25.342
30	13.770	33.847	25.344
40	13.545	33.848	25.390
50	13.371	33.891	25.459

STATION US11749
LATITUDE 41-43.6 N
LONGITUDE 140-36.5 E
DEPTH (m) 36

Press.	Temp.	Salinity	Sigma-T
5	12.920	33.371	25.147
10	13.384	33.760	25.356
20	13.330	33.771	25.375
30	13.032	33.720	25.395

STATION US11750
LATITUDE 41-43.9 N
LONGITUDE 140-35.9 E
DEPTH (m) 11

Press.	Temp.	Salinity	Sigma-T
5	11.673	33.131	25.199
10	13.127	33.660	25.329

STATION US11751
LATITUDE 41-41.3 N
LONGITUDE 140-33.9 E
DEPTH (m) 36

Press.	Temp.	Salinity	Sigma-T
5	13.419	33.835	25.406
10	13.171	33.809	25.437
20	12.939	33.780	25.460
30	12.762	33.755	25.475

STATION US11752
LATITUDE 41-37.6 N
LONGITUDE 140-30.3 E
DEPTH (m) 30

Press.	Temp.	Salinity	Sigma-T
5	12.963	33.815	25.482
10	12.899	33.815	25.495
20	12.643	33.802	25.535
30	12.623	33.800	25.538

STATION US11753
LATITUDE 41-37.7 N
LONGITUDE 140-28.1 E
DEPTH (m) 19

Press.	Temp.	Salinity	Sigma-T
5	12.363	33.738	25.540
10	12.301	33.746	25.558

STATION US11754
LATITUDE 41-38.1 N
LONGITUDE 140-26.3 E
DEPTH (m) 12

Press.	Temp.	Salinity	Sigma-T
5	12.054	33.556	25.457
10	11.954	33.713	25.598

STATION US11755
LATITUDE 41-34.9 N
LONGITUDE 140-33.3 E
DEPTH (m) 59

Press.	Temp.	Salinity	Sigma-T
5	12.942	33.734	25.423
10	13.112	33.798	25.439
20	13.099	33.839	25.473
30	12.964	33.860	25.517
40	12.586	33.939	25.652
50	12.072	34.036	25.826

STATION US11756
LATITUDE 41-35.0 N
LONGITUDE 140-29.9 E
DEPTH (m) 45

Press.	Temp.	Salinity	Sigma-T
5	12.926	33.739	25.431
10	12.927	33.749	25.438
20	12.879	33.776	25.469
30	12.694	33.774	25.504
40	12.598	33.840	25.574

STATION US11757
LATITUDE 41-35.3 N
LONGITUDE 140-26.6 E
DEPTH (m) 12

Press.	Temp.	Salinity	Sigma-T
5	12.815	33.429	25.212
10	12.727	33.715	25.451

STATION US11758
LATITUDE 41-28.7 N
LONGITUDE 140-20.4 E
DEPTH (m) 60

Press.	Temp.	Salinity	Sigma-T
5	13.517	33.874	25.417
10	13.469	33.881	25.432
20	13.049	33.927	25.552
30	12.912	33.948	25.596
40	12.855	33.956	25.613
50	12.720	33.978	25.656

STATION US11759
LATITUDE 41-28.3 N
LONGITUDE 140-16.2 E
DEPTH (m) 11

Press.	Temp.	Salinity	Sigma-T
5	14.646	33.657	25.013
10	14.655	33.657	25.011

STATION US11760
LATITUDE 41-26.6 N
LONGITUDE 140-17.4 E
DEPTH (m) 63

Press.	Temp.	Salinity	Sigma-T
5	14.254	33.757	25.173
10	14.212	33.764	25.188
20	13.987	33.798	25.261
30	13.840	33.840	25.324
40	13.616	33.934	25.443
50	13.125	34.067	25.645

STATION US11761
LATITUDE 41-24.1 N
LONGITUDE 140-20.5 E
DEPTH (m) 93

Press.	Temp.	Salinity	Sigma-T
5	13.635	33.895	25.409
10	12.875	33.996	25.640
20	12.605	34.034	25.722
30	12.453	34.042	25.759
40	12.287	34.051	25.798
50	12.053	34.065	25.853
75	11.035	34.139	26.099

STATION US11762
LATITUDE 41-26.3 N
LONGITUDE 140-02.5 E
DEPTH (m) 26

Press.	Temp.	Salinity	Sigma-T
5	14.467	33.592	25.001
10	14.139	33.690	25.146
20	13.838	33.755	25.259

STATION US11763
LATITUDE 41-26.1 N
LONGITUDE 140-02.0 E
DEPTH (m) 45

Press.	Temp.	Salinity	Sigma-T
5	14.794	33.624	24.956
10	14.586	33.668	25.034
20	14.070	33.749	25.206
30	13.577	33.818	25.361
40	13.168	33.891	25.500

STATION US11764
LATITUDE 41-25.7 N
LONGITUDE 140-01.4 E
DEPTH (m) 83

Press.	Temp.	Salinity	Sigma-T
5	15.363	33.653	24.854
10	15.379	33.652	24.850
20	15.382	33.651	24.848
30	15.381	33.652	24.850
40	14.582	34.104	25.371
50	12.084	34.143	25.907
75	10.910	34.259	26.214

STATION US11765
LATITUDE 41-25.1 N
LONGITUDE 140-00.2 E
DEPTH (m) 104

Press.	Temp.	Salinity	Sigma-T
5	15.430	33.635	24.826
10	15.441	33.636	24.824
20	15.444	33.646	24.831
30	15.343	33.693	24.889
40	15.105	33.785	25.012
50	14.568	34.402	25.604
75	10.771	34.256	26.237

STATION US11766
LATITUDE 41-24.4 N
LONGITUDE 140-05.9 E
DEPTH (m) 56

Press.	Temp.	Salinity	Sigma-T
5	13.828	33.743	25.252
10	12.631	33.997	25.689
20	12.105	34.147	25.907
30	11.836	34.239	26.029
40	11.604	34.267	26.094
50	11.521	34.275	26.116

STATION US11767
LATITUDE 41-23.7 N
LONGITUDE 140-05.9 E
DEPTH (m) 93

Press.	Temp.	Salinity	Sigma-T
5	13.829	33.796	25.293
10	13.257	33.888	25.480
20	11.702	34.138	25.975
30	11.290	34.241	26.132
40	11.238	34.282	26.174
50	11.072	34.280	26.202
75	10.606	34.270	26.277

STATION US11768
LATITUDE 41-23.1 N
LONGITUDE 140-06.0 E
DEPTH (m) 105

Press.	Temp.	Salinity	Sigma-T
5	13.843	33.776	25.274
10	13.850	33.773	25.270
20	13.842	33.767	25.267
30	13.160	33.884	25.497
40	12.235	34.045	25.803
50	11.476	34.157	26.032
75	10.451	34.263	26.299
100	10.374	34.261	26.311

STATION US11769
LATITUDE 41-22.1 N
LONGITUDE 140-06.3 E
DEPTH (m) 118

Press.	Temp.	Salinity	Sigma-T
5	14.080	33.799	25.243
10	13.493	33.864	25.414
20	12.807	34.013	25.667
30	12.765	34.071	25.720
40	12.339	34.176	25.884
50	11.649	34.218	26.048
75	10.653	34.239	26.245
100	10.401	34.252	26.299

STATION US11770
LATITUDE 41-45.7 N
LONGITUDE 141-09.7 E
DEPTH (m) 113

Press.	Temp.	Salinity	Sigma-T
5	8.969	33.643	26.061
10	9.329	33.744	26.082
20	9.547	33.783	26.077
30	9.657	33.807	26.078
40	9.680	33.812	26.078
50	9.681	33.811	26.077
75	9.505	33.798	26.095
100	9.146	33.764	26.127

STATION US11771
LATITUDE 41-59.3 N
LONGITUDE 141-02.0 E
DEPTH (m) 101

Press.	Temp.	Salinity	Sigma-T
5	8.033	33.378	25.995
10	8.061	33.382	25.994
20	8.140	33.401	25.997
30	8.217	33.419	26.000
40	8.400	33.468	26.011
50	8.477	33.486	26.013
75	8.657	33.555	26.040

STATION US11772
LATITUDE 41-58.7 N
LONGITUDE 141-00.6 E
DEPTH (m) 93

Press.	Temp.	Salinity	Sigma-T
5	8.166	33.415	26.004
10	8.171	33.413	26.002
20	8.183	33.413	26.001
30	8.167	33.408	25.999
40	8.488	33.480	26.007
50	8.903	33.581	26.022
75	8.379	33.586	26.107

STATION US11773
LATITUDE 41-58.1 N
LONGITUDE 140-59.4 E
DEPTH (m) 85

Press.	Temp.	Salinity	Sigma-T
5	8.386	33.459	26.006
10	8.389	33.458	26.005
20	8.371	33.451	26.002
30	8.403	33.457	26.002
40	8.627	33.517	26.015
50	8.827	33.563	26.020
75	7.656	33.573	26.203

STATION US11774
LATITUDE 41-57.4 N
LONGITUDE 140-58.0 E
DEPTH (m) 75

Press.	Temp.	Salinity	Sigma-T
5	8.663	33.548	26.034
10	8.666	33.548	26.033
20	8.667	33.548	26.033
30	8.682	33.551	26.033
40	8.743	33.568	26.037
50	9.064	33.661	26.059

STATION US11775
LATITUDE 42-15.2 N
LONGITUDE 140-47.9 E
DEPTH (m) 70

Press.	Temp.	Salinity	Sigma-T
5	8.706	33.795	26.221
10	8.709	33.794	26.219
20	8.713	33.792	26.217
30	8.716	33.792	26.217
40	8.716	33.791	26.216
50	8.729	33.795	26.217

STATION US11776
LATITUDE 42-20.7 N
LONGITUDE 140-48.4 E
DEPTH (m) 52

Press.	Temp.	Salinity	Sigma-T
5	8.847	33.748	26.162
10	8.903	33.810	26.202
20	8.900	33.809	26.201
30	8.904	33.808	26.200
40	8.907	33.808	26.199

STATION US11777
LATITUDE 42-31.3 N
LONGITUDE 140-37.9 E
DEPTH (m) 59

Press.	Temp.	Salinity	Sigma-T
5	8.870	33.770	26.176
10	8.883	33.766	26.170
20	8.876	33.763	26.169
30	8.851	33.758	26.169
40	8.779	33.743	26.169
50	8.720	33.740	26.175

STATION US11778
LATITUDE 42-26.1 N
LONGITUDE 140-37.2 E
DEPTH (m) 82

Press.	Temp.	Salinity	Sigma-T
5	8.911	33.745	26.149
10	8.918	33.772	26.170
20	8.885	33.805	26.200
30	8.844	33.805	26.207
40	8.812	33.807	26.213
50	8.802	33.808	26.216
75	8.382	33.796	26.271

STATION US11779
LATITUDE 42-21.3 N
LONGITUDE 140-36.7 E
DEPTH (m) 86

Press.	Temp.	Salinity	Sigma-T
5	8.801	33.739	26.162
10	8.838	33.775	26.184
20	8.839	33.795	26.200
30	8.838	33.794	26.200
40	8.833	33.794	26.200
50	8.825	33.794	26.201
75	8.824	33.797	26.204

STATION US11780
LATITUDE 42-16.9 N
LONGITUDE 140-36.5 E
DEPTH (m) 89

Press.	Temp.	Salinity	Sigma-T
5	8.964	33.737	26.135
10	8.994	33.786	26.168
20	8.994	33.805	26.183
30	8.995	33.805	26.183
40	8.989	33.805	26.184
50	8.980	33.805	26.186
75	8.948	33.805	26.191

STATION US11781
LATITUDE 42-11.4 N
LONGITUDE 140-35.4 E
DEPTH (m) 81

Press.	Temp.	Salinity	Sigma-T
5	8.856	33.780	26.185
10	8.871	33.797	26.196
20	8.887	33.795	26.192
30	8.893	33.796	26.192
40	8.899	33.798	26.193
50	8.907	33.800	26.193
75	8.916	33.803	26.194

STATION US11782
LATITUDE 42-08.9 N
LONGITUDE 140-35.8 E
DEPTH (m) 65

Press.	Temp.	Salinity	Sigma-T
5	8.564	33.649	26.128
10	8.807	33.751	26.170
20	8.910	33.783	26.179
30	8.919	33.784	26.179
40	8.937	33.798	26.187
50	8.929	33.799	26.189

STATION US11783
LATITUDE 42-13.8 N
LONGITUDE 140-30.2 E
DEPTH (m) 78

Press.	Temp.	Salinity	Sigma-T
5	8.211	33.473	26.044
10	8.686	33.666	26.123
20	8.910	33.742	26.147
30	8.949	33.756	26.152
40	8.971	33.776	26.164
50	8.966	33.781	26.169

STATION US11784
LATITUDE 42-18.9 N
LONGITUDE 140-30.5 E
DEPTH (m) 92

Press.	Temp.	Salinity	Sigma-T
5	9.054	33.811	26.178
10	9.061	33.808	26.175
20	9.069	33.804	26.171
30	9.071	33.803	26.170
40	9.084	33.805	26.169
50	9.072	33.803	26.170
75	9.028	33.803	26.176

STATION US11785
LATITUDE 42-23.7 N
LONGITUDE 140-31.1 E
DEPTH (m) 94

Press.	Temp.	Salinity	Sigma-T
5	9.190	33.807	26.153
10	9.193	33.805	26.151
20	9.189	33.802	26.150
30	9.195	33.804	26.151
40	9.193	33.805	26.152
50	9.189	33.806	26.153
75	9.175	33.806	26.155

STATION US11786
LATITUDE 42-23.3 N
LONGITUDE 140-42.6 E
DEPTH (m) 61

Press.	Temp.	Salinity	Sigma-T
5	8.876	33.809	26.205
10	8.887	33.804	26.200
20	8.890	33.803	26.198
30	8.893	33.802	26.197
40	8.886	33.801	26.198
50	8.883	33.803	26.199

STATION US11787
LATITUDE 42-13.3 N
LONGITUDE 140-41.4 E
DEPTH (m) 89

Press.	Temp.	Salinity	Sigma-T
5	8.829	33.805	26.209
10	8.808	33.800	26.209
20	8.820	33.803	26.209
30	8.823	33.803	26.209
40	8.826	33.803	26.208
50	8.826	33.803	26.208
75	8.821	33.803	26.209

STATION US11788
LATITUDE 41-44.6 N
LONGITUDE 140-38.4 E
DEPTH (m) 49

Press.	Temp.	Salinity	Sigma-T
5	11.520	33.941	25.857
10	11.518	33.942	25.858
20	11.508	33.940	25.858
30	11.505	33.939	25.858
40	11.562	33.966	25.868

STATION US11789
LATITUDE 41-47.0 N
LONGITUDE 140-40.5 E
DEPTH (m) 20

Press.	Temp.	Salinity	Sigma-T
5	9.383	33.608	25.967
10	9.838	33.772	26.020

STATION US11790
LATITUDE 41-45.4 N
LONGITUDE 140-40.2 E
DEPTH (m) 39

Press.	Temp.	Salinity	Sigma-T
5	10.899	33.992	26.009
10	10.900	33.985	26.003
20	10.802	33.977	26.015
30	10.654	33.973	26.038

STATION US11791
LATITUDE 41-43.5 N
LONGITUDE 140-40.1 E
DEPTH (m) 66

Press.	Temp.	Salinity	Sigma-T
5	10.696	33.980	26.035
10	10.709	33.971	26.026
20	10.719	33.964	26.018
30	10.793	33.991	26.027
40	10.778	33.976	26.017
50	10.807	34.012	26.040

STATION US11792
LATITUDE 41-43.7 N
LONGITUDE 140-36.4 E
DEPTH (m) 31

Press.	Temp.	Salinity	Sigma-T
5	10.868	33.997	26.018
10	10.311	33.904	26.043
20	10.433	33.946	26.054

STATION US11793
LATITUDE 41-44.0 N
LONGITUDE 140-35.8 E
DEPTH (m) 12

Press.	Temp.	Salinity	Sigma-T
5	9.833	33.832	26.068
10	9.837	33.826	26.063

STATION US11794
LATITUDE 41-41.2 N
LONGITUDE 140-34.4 E
DEPTH (m) 41

Press.	Temp.	Salinity	Sigma-T
5	10.744	34.004	26.045
10	10.742	33.994	26.038
20	10.727	33.991	26.038
30	10.714	33.990	26.040
40	10.700	33.991	26.043

STATION US11795
LATITUDE 41-37.3 N
LONGITUDE 140-30.1 E
DEPTH (m) 32

Press.	Temp.	Salinity	Sigma-T
5	10.477	33.952	26.052
10	10.500	33.962	26.056
20	10.509	33.959	26.051
30	10.529	33.962	26.051

STATION US11796
LATITUDE 41-34.9 N
LONGITUDE 140-33.1 E
DEPTH (m) 59

Press.	Temp.	Salinity	Sigma-T
5	10.634	34.007	26.067
10	10.662	34.009	26.064
20	10.618	34.011	26.073
30	10.457	34.013	26.103
40	10.398	34.023	26.121
50	10.355	34.029	26.133

STATION US11797
LATITUDE 41-35.0 N
LONGITUDE 140-29.7 E
DEPTH (m) 43

Press.	Temp.	Salinity	Sigma-T
5	10.450	33.955	26.059
10	10.451	33.952	26.056
20	10.468	33.951	26.053
30	10.487	33.952	26.050
40	10.491	33.952	26.050

STATION US11798
LATITUDE 41-35.1 N
LONGITUDE 140-26.5 E
DEPTH (m) 12

Press.	Temp.	Salinity	Sigma-T
5	8.900	33.432	25.906
10	9.025	33.765	26.147

STATION US11799
LATITUDE 41-29.0 N
LONGITUDE 140-21.2 E
DEPTH (m) 63

Press.	Temp.	Salinity	Sigma-T
5	10.209	33.924	26.076
10	10.219	33.926	26.076
20	10.225	33.926	26.075
30	10.270	33.936	26.075
40	10.269	33.935	26.075
50	10.291	33.939	26.074

STATION US11800
LATITUDE 41-28.3 N
LONGITUDE 140-16.8 E
DEPTH (m) 27

Press.	Temp.	Salinity	Sigma-T
5	10.247	33.926	26.071
10	10.329	33.962	26.085
20	10.354	33.961	26.080

STATION US11801
LATITUDE 41-26.3 N
LONGITUDE 140-17.4 E
DEPTH (m) 68

Press.	Temp.	Salinity	Sigma-T
5	10.263	33.973	26.105
10	10.267	33.970	26.102
20	10.182	33.971	26.117
30	9.807	34.008	26.210
40	9.622	34.031	26.258
50	9.623	34.032	26.259

STATION US11802
LATITUDE 41-23.8 N
LONGITUDE 140-20.0 E
DEPTH (m) 97

Press.	Temp.	Salinity	Sigma-T
5	9.653	34.038	26.259
10	9.657	34.033	26.255
20	9.659	34.031	26.252
30	9.653	34.031	26.253
40	9.332	34.043	26.315
50	9.060	34.050	26.364
75	8.736	34.067	26.429

STATION US11803
LATITUDE 41-26.3 N
LONGITUDE 140-02.5 E
DEPTH (m) 31

Press.	Temp.	Salinity	Sigma-T
5	9.782	33.983	26.194
10	9.255	34.019	26.309
20	9.236	34.030	26.321
30	8.889	34.042	26.386

STATION US11804
LATITUDE 41-26.2 N
LONGITUDE 140-02.0 E
DEPTH (m) 44

Press.	Temp.	Salinity	Sigma-T
5	9.952	33.995	26.175
10	9.784	34.006	26.212
20	9.563	34.019	26.259
30	9.482	34.022	26.275
40	8.861	34.046	26.393

STATION US11805
LATITUDE 41-25.9 N
LONGITUDE 140-01.1 E
DEPTH (m) 83

Press.	Temp.	Salinity	Sigma-T
5	9.979	34.003	26.177
10	9.976	34.002	26.177
20	9.988	34.001	26.174
30	9.795	34.005	26.210
40	9.775	34.008	26.215
50	9.661	34.015	26.239
75	7.770	34.101	26.602

STATION US11806
LATITUDE 41-24.9 N
LONGITUDE 140-00.0 E
DEPTH (m) 112

Press.	Temp.	Salinity	Sigma-T
5	9.764	33.961	26.181
10	9.796	34.031	26.230
20	9.792	34.032	26.231
30	9.796	34.040	26.236
40	9.582	34.040	26.272
50	9.112	34.040	26.349
75	8.778	34.086	26.437
100	4.361	34.024	26.972

STATION US11807
LATITUDE 41-24.6 N
LONGITUDE 140-06.2 E
DEPTH (m) 48

Press.	Temp.	Salinity	Sigma-T
5	11.113	33.960	25.945
10	11.125	33.955	25.939
20	11.056	33.955	25.952
30	10.991	33.959	25.967
40	10.955	33.961	25.975

STATION US11808
LATITUDE 41-23.7 N
LONGITUDE 140-06.1 E
DEPTH (m) 90

Press.	Temp.	Salinity	Sigma-T
5	10.363	33.874	26.011
10	10.418	34.005	26.103
20	10.407	34.001	26.103
30	10.481	33.999	26.088
40	10.495	33.999	26.085
50	10.462	34.000	26.092
75	10.431	34.003	26.100

STATION US11809
LATITUDE 41-23.2 N
LONGITUDE 140-06.2 E
DEPTH (m) 100

Press.	Temp.	Salinity	Sigma-T
5	10.683	33.982	26.039
10	10.687	33.976	26.034
20	10.308	34.001	26.119
30	10.292	34.006	26.126
40	10.303	34.009	26.126
50	10.320	34.011	26.125
75	10.251	34.018	26.142

STATION US11810
LATITUDE 41-22.3 N
LONGITUDE 140-06.1 E
DEPTH (m) 118

Press.	Temp.	Salinity	Sigma-T
5	11.792	33.888	25.765
10	11.502	33.907	25.833
20	11.310	33.936	25.891
30	10.843	33.951	25.986
40	10.286	33.996	26.119
50	10.301	34.006	26.125
75	10.221	34.017	26.147
100	10.228	34.023	26.150

STATION US11811
LATITUDE 41-37.7 N
LONGITUDE 140-28.0 E
DEPTH (m) 18

Press.	Temp.	Salinity	Sigma-T
5	10.449	33.805	25.942
10	10.424	33.974	26.078

STATION US11812
LATITUDE 41-38.0 N
LONGITUDE 140-26.9 E
DEPTH (m) 16

Press.	Temp.	Salinity	Sigma-T
5	9.531	33.858	26.138
10	9.516	33.854	26.138

STATION US11813
LATITUDE 41-35.1 N
LONGITUDE 140-52.9 E
DEPTH (m) 36

Press.	Temp.	Salinity	Sigma-T
5	11.928	33.897	25.746
10	11.931	33.897	25.746
20	11.905	33.901	25.753
30	11.905	33.901	25.753

STATION US11814
LATITUDE 41-37.1 N
LONGITUDE 140-51.2 E
DEPTH (m) 98

Press.	Temp.	Salinity	Sigma-T
5	11.633	33.925	25.823
10	11.632	33.919	25.819
20	11.616	33.919	25.822
30	11.533	33.927	25.843
40	11.247	33.951	25.914
50	11.244	33.953	25.916
75	10.841	33.990	26.017

STATION US11815
LATITUDE 41-38.8 N
LONGITUDE 140-49.2 E
DEPTH (m) 339

Press.	Temp.	Salinity	Sigma-T
5	11.256	33.848	25.832
10	11.299	33.943	25.899
20	11.228	33.950	25.917
30	11.210	33.952	25.921
40	11.288	33.951	25.907
50	11.271	33.951	25.910
75	11.280	33.955	25.911
100	11.126	33.966	25.948
125	11.030	33.971	25.969
150	10.712	33.984	26.036
175	10.518	33.989	26.074
200	10.030	34.027	26.187
250	9.535	34.060	26.296
300	9.539	34.061	26.296

STATION US11816
LATITUDE 41-40.8 N
LONGITUDE 140-47.2 E
DEPTH (m) 223

Press.	Temp.	Salinity	Sigma-T
5	11.715	33.941	25.820
10	11.728	33.933	25.812
20	11.734	33.929	25.807
30	11.737	33.928	25.806
40	11.709	33.932	25.815
50	11.417	33.959	25.889
75	11.354	33.977	25.915
100	11.292	33.983	25.930
125	11.256	33.989	25.942
150	10.369	34.026	26.128
175	10.418	34.034	26.126
200	10.410	34.034	26.127

STATION US11817
LATITUDE 41-42.6 N
LONGITUDE 140-45.3 E
DEPTH (m) 86

Press.	Temp.	Salinity	Sigma-T
5	11.811	33.903	25.773
10	11.824	33.906	25.773
20	11.765	33.912	25.788
30	11.736	33.916	25.797
40	11.610	33.928	25.830
50	11.595	33.930	25.834
75	11.524	33.936	25.852

STATION US11818
LATITUDE 41-44.1 N
LONGITUDE 140-38.2 E
DEPTH (m) 53

Press.	Temp.	Salinity	Sigma-T
5	11.050	33.989	25.979
10	10.969	33.977	25.985
20	10.859	33.971	26.000
30	10.860	33.971	25.999
40	10.826	33.971	26.005
50	10.628	33.985	26.051