



HOKKAIDO UNIVERSITY

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THE " USHIO MARU "

CRUISE 333

CRUISE 334

CRUISE 335

IN MAY 2015

IN JUNE 2015

1.Cruise Itinerary

Cruise 333

Departure from Hakodate	May.	8, 2015
Arrival at Usujiri		8
Departure from Usujiri		9
Start hydrographic research (US15184) and frame trawl net sampling		9
Finish frame trawl net sampling		11
Arrival at Usujiri		12
Departure from Usujiri		13
Arrival at Usujiri		14
Departure from and Arrival at Usujiri		16
Departure from Usujiri		17
Sampling by bottom long line		17
Arrival at Usujiri		17
Departure from Usujiri		18
Arrival at and Departure from Usujiri		18
Arrive at Hakodate		18
Departure from Hakodate		20
Finish hydrographic research (US15235)		21
Return to Hakodate		21
Total coverage 761.0 miles		

Cruise 334

Departure from Hakodate	May.	26, 2015
Start frame trawl net sampling and hydrographic research (US15236)		26
Finish hydrographic research (US15244) and frame trawl sampling		27
Return to Hakodate		28
Total coverage 271.5 miles		

Cruise 335

Departure from Hakodate	Jun.	1, 2015
Start trawl net sampling and hydrographic research (US15245)		1
Arrival at Aomori		1
Departure from Aomori		2
Finish trawl net sampling		2
Arrival at Noheji		2
Departure from Noheji		3
Finish hydrographic research (US15268)		3
Return to Hakodate		3
Total coverage 201.5 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 SBE-9Plus and SBE-19). Dynamic computations were made using a desk-top computer aboard the “Ushio Maru”.

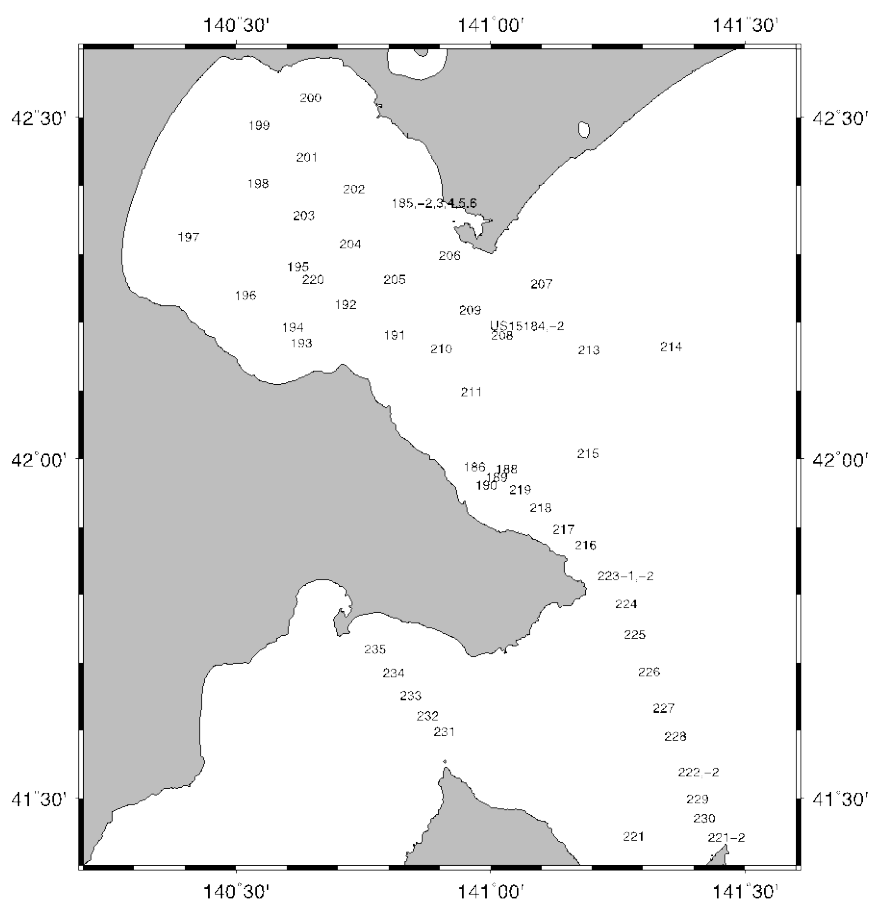


Figure 1. Oceanographic stations (Cruise 333)

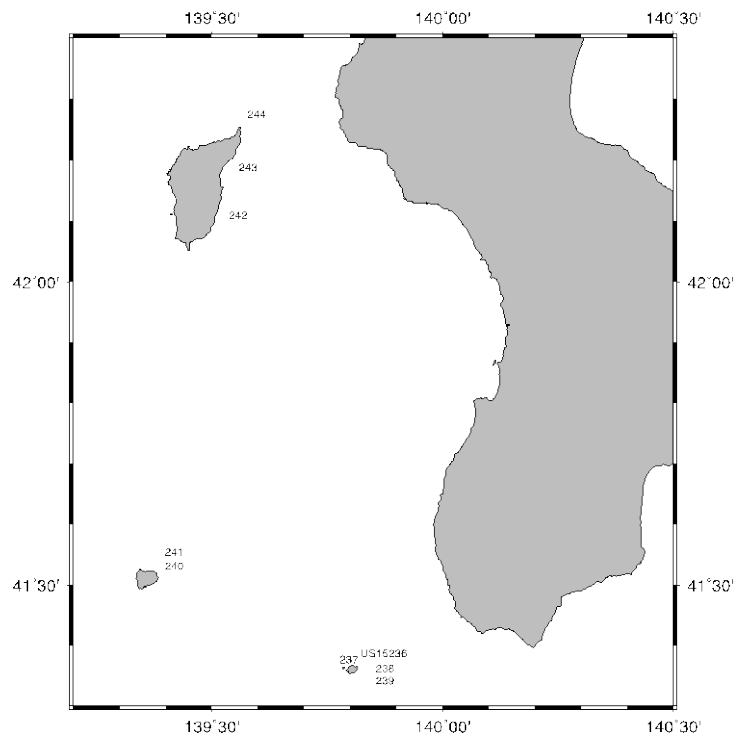


Figure 2. Oceanographic stations (Cruise 334)

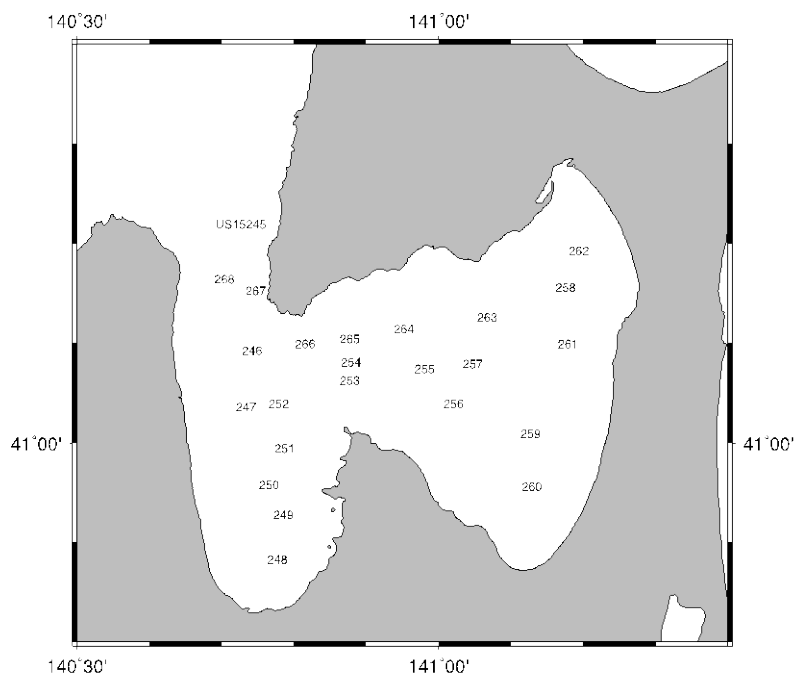


Figure 3. Oceanographic stations (Cruise 335)

Table 1. List of Oceanographic Station

Cruise 333												
Station	Lat. (N)	Long. (E)	Date	S.M.T.	Depth (m)	Wave	Swell	Wind	Air Temp.	Sea Temp.	Wr.	Bar. (hPa)
US15184	42-11.3	140-59.9	5/9	1336-1339	78	SW-3	NW-1	SW-3	10.6	7.7	bc	1013.1
US15185	42-22.1	140-48.3	5/9	1950-1953	51	calm	NW-1	calm	9.9	9.4	c	1011.8
US15185-2	42-22.7	140-47.2	5/9	2158-2202	49	NW-1	NW-1	NW-3	9.7	8.8	bc	1011.6
US15185-3	42-21.5	140-48.6	5/10	0658-0702	52	West-3	West-1	West-4	8.4	8.8	c	1011.2
US15185-4	42-23.1	140-46.7	5/10	1150-1154	48	WNW-3	WNW-1	WNW-4	10.9	8.9	bc	1011.6
US15185-5	42-21.4	140-48.7	5/10	1947-1951	52	West-3	NW-1	West-5	9.7	8.5	bc	1015.8
US15185-6	42-22.4	140-47.5	5/10	2150-2153	49	West-2	WNW-1	West-4	9.4	8.6	bc	1016.6
US15184-2	42-11.3	141-01.6	5/11	1410-1414	80	West-4	West-1	West-5	12.9	7.5	bc	1018.5
US15186	41-58.9	140-56.8	5/11	1955-1919	73	West-1	NW-1	West-3	13.8	9.0	bc	1019.1
US15187	41-59.4	141-01.8	5/12	0452-0458	101	calm	East-1	calm	8.6	8.3	c	1015.6
US15188	41-58.7	141-00.6	5/12	0508-0513	94	calm	East-1	calm	8.8	8.4	c	1015.5
US15189	41-58.0	140-59.4	5/12	0522-0526	80	calm	East-1	calm	8.9	8.4	c	1015.5
US15190	41-57.3	140-58.2	5/12	0535-0540	77	calm	East-1	calm	8.9	8.6	c	1015.1
US15191	42-10.5	140-47.4	5/13	0653-0658	92	calm	East-1	calm	9.9	8.8	bc	999.5
US15192	42-13.2	140-41.6	5/13	0802-0806	90	West-1	East-1	West-2	10.7	8.5	bc	999.5
US15193	42-09.8	140-36.4	5/13	0838-0844	71	calm	East-1	calm	12.2	8.7	bc	999.6
US15194	42-11.2	140-35.4	5/13	0901-0905	81	calm	East-1	calm	13.6	9.1	bc	1000.0
US15195	42-16.5	140-36.0	5/13	1033-1041	31	SW-2	ESE-1	SW-3	14.7	8.7	bc	1000.1
US15196	42-14.0	140-29.8	5/13	1153-1158	77	NE-1	East-1	NE-1	13.5	9.0	bc	999.8
US15197	42-19.1	140-23.1	5/13	1241-1245	54	SW-1	East-1	SW-2	12.5	8.9	r	999.1
US15198	42-23.8	140-31.3	5/13	1353-1358	96	SW-1	SW-1	SW-3	13.0	9.6	bc	999.6
US15199	42-28.9	140-31.4	5/13	1445-1450	75	calm	SE-1	calm	16.1	8.9	bc	999.6
US15200	42-31.3	140-37.5	5/13	1537-1544	60	South-1	SE-1	South-1	12.5	9.4	bc	1000.1
US15201	42-26.1	140-37.1	5/13	1638-1643	83	SW-3	SW-1	SW-5	12.4	8.7	c	1000.1
US15202	42-23.3	140-42.6	5/13	1712-1716	61	SW-2	SW-1	SW-3	12.9	9.5	c	1000.6
US15203	42-21.0	140-36.7	5/13	1807-1812	87	SW-2	SW-1	SW-3	12.8	9.6	o	1001.0
US15204	42-18.5	140-42.2	5/14	0604-0609	66	West-4	East-1	West-5	10.2	9.3	bc	1005.0
US15205	42-15.4	140-47.4	5/14	0704-0708	72	WNW-4	ESE-1	WNW-5	10.5	8.9	bc	1006.1
US15206	42-17.5	140-53.9	5/14	0808-0811	56	West-3	ESE-1	West-5	11.4	9.0	bc	1006.6
US15207	42-15.0	141-04.7	5/14	0918-0922	79	WNW-3	ESE-1	WNW-4	10.9	7.0	bc	1007.6
US15208	42-11.3	141-02.7	5/14	1002-1006	83	WNW-3	WNW-1	WNW-4	9.8	7.2	bc	1008.6
US15209	42-12.7	140-56.3	5/14	1059-1103	70	WNW-4	ESE-1	WNW-5	10.5	7.2	bc	1009.4
US15210	42-09.3	140-52.9	5/14	1202-1206	78	WNW-4	ESE-1	WNW-5	10.3	7.4	bc	1009.7
US15211	42-05.5	140-56.5	5/14	1302-1307	84	WNW-4	ESE-1	WNW-4	10.2	7.5	bc	1010.1
US15212	42-00.7	141-00.8	5/14	1357-1403	91	NW-3	ESE-1	NW-4	11.6	8.3	bc	1010.5
US15213	42-09.2	141-10.3	5/16	0821-0826	126	West-2	ESE-1	West-3	8.8	6.9	o	1004.5
US15214	42-09.5	141-20.0	5/16	0949-1002	366	West-3	ESE-1	West-5	9.0	7.2	bc	1003.9
US15215	42-00.1	141-10.2	5/16	1331-1338	137	WNW-2	ESE-1	WNW-4	10.7	7.9	bc	1002.6
US15216	41-52.0	141-09.9	5/17	0746-0753	110	West-3	ESE-1	West-6	11.2	8.2	bc	1004.3
US15217	41-53.4	141-07.3	5/17	0813-0820	93	SW-3	ESE-1	SW-5	11.9	8.1	bc	1004.2
US15218	41-55.3	141-04.6	5/17	0953-1000	110	West-3	ESE-1	West-5	12.2	7.8	bc	1005.3
US15219	41-56.9	141-02.2	5/17	1017-1020	104	West-3	ESE-1	West-5	12.8	7.7	bc	1005.3
US15220	42-15.4	140-37.8	5/18	0815-0832	88	NE-1	ESE-1	NE-3	9.4	8.7	bc	1013.6
US15221	41-26.2	141-15.6	5/20	1132-1139	77	North-2	East-1	North-3	14.5	11.2	bc	1003.0
US15221-2	41-26.1	141-25.6	5/20	1157-1204	76	North-2	East-1	North-3	14.5	11.2	bc	1003.0
US15222	41-31.9	141-22.1	5/20	1251-1309	253	ENE-2	East-1	ENE-4	12.6	11.5	bc	1002.1
US15222-2	41-32.1	141-22.3	5/20	1344-1402	253	ENE-4	East-1	ENE-4	11.6	11.4	bc	1001.6
US15223-1	41-49.3	141-12.6	5/20	1556-1610	132	calm	East-1	calm	11.0	7.9	r	1000.9
US15223-2	41-49.0	141-14.0	5/20	1637-1653	158	calm	East-1	calm	11.0	7.9	r	1000.9

Cruise 333 (continued)

Station	Lat. (N)*	Long. (E)*	Date	S.M.T.	Depth (m)	Wave	Swell	Wind	Air Temp.	Sea Temp.	Wr.	Bar. (hPa)
US15224	41-46.8	141-14.7	5/20	1711-1731	206	NW-3	ESE-1	NW-3	9.2	8.0	r	1002.0
US15225	41-44.1	141-15.7	5/20	1749-1808	228	NE-3	ESE-1	NNE-4	9.0	7.8	o	1001.2
US15226	41-40.8	141-17.4	5/20	1833-1852	231	NE-3	ESE-1	NE-4	8.9	7.7	c	1000.8
US15227	41-37.6	141-19.1	5/20	1917-1933	216	ENE-3	ESE-1	ENE-3	9.4	7.0	bc	1001.1
US15228	41-35.1	141-20.5	5/20	1954-2015	313	East-2	ESE-1	East-3	9.3	8.3	bc	1001.0
US15229	41-29.5	141-23.1	5/20	2049-2057	129	East-2	ESE-1	East-3	11.2	9.3	bc	1001.1
US15230	41-27.8	141-23.9	5/20	2113-2117	57	East-2	East-1	East-3	11.2	11.0	bc	1001.6
US15231	41-35.5	140-53.3	5/21	0403-0406	50	WNW-3	ESE-1	WNW-4	11.1	12.0	bc	1001.3
US15232	41-36.9	140-51.3	5/21	0423-0432	94	West-3	ESE-1	West-4	11.3	11.8	bc	1001.7
US15233	41-38.7	140-49.3	5/21	0452-0516	348	West-3	ESE-1	West-4	11.4	11.5	bc	1001.2
US15234	41-40.7	140-47.3	5/21	0549-0608	232	West-2	ESE-1	West-4	11.1	11.6	c	1001.8
US15235	41-42.8	140-45.1	5/21	0628-0636	85	SW-2	ESE-1	SW-3	11.1	11.7	c	1002.2

Cruise 334

Station	Lat. (N)*	Long. (E)*	Date	S.M.T.	Depth (m)	Wave	Swell	Wind	Air Temp.	Sea Temp.	Wr.	Bar. (hPa)
US15236	41-22.8	139-49.3	5/26	1403-1413	520	West-1	East-1	West-2	16.7	13.8	bc	1009.0
US15237	41-22.2	139-46.6	5/26	1445-1454	148	WNW-3	North-1	WNW-5	14.4	12.2	c	1009.6
US15238	41-21.3	139-51.3	5/26	1635-1543	647	NW-2	West-1	NW-5	12.3	12.5	c	1009.6
US15239	41-20.1	139-51.3	5/26	1652-1700	208	WNW-2	North-1	WNW-3	14.8	13.6	bc	1009.1
US15240	41-31.5	139-23.9	5/27	0521-0529	560	WNW-2	NW-1	WNW-4	11.5	13.0	c	1012.7
US15241	41-32.9	139-23.9	5/27	0555-0604	992	North-2	NW-1	North-3	11.3	12.9	c	1013.1
US15242	42-06.2	139-32.2	5/27	0936-0945	213	NNE-2	NW-1	NNE-4	13.1	12.2	c	1013.5
US15243	42-10.9	139-33.5	5/27	1036-1042	303	NNE-1	North-1	NNE-3	13.6	12.3	bc	1013.6
US15244	42-16.1	139-34.6	5/27	1134-1142	118	NNE-2	North-1	NNE-3	14.7	12.5	bc	1013.5

Cruise 335

Station	Lat. (N)*	Long. (E)*	Date	S.M.T.	Depth (m)	Wave	Swell	Wind	Air Temp.	Sea Temp.	Wr.	Bar. (hPa)
US15245	41-12.9	140-41.5	6/1	1226-1230	81	NNW-1	West-1	NNW-4	17.6	15.2	bc	1011.9
US15246	41-05.3	140-43.7	6/1	1327-1330	61	North-3	North-1	North-5	17.6	14.5	bc	1011.6
US15247	41-01.9	140-43.2	6/1	1427-1430	57	North-3	North-1	North-5	17.1	14.3	bc	1011.7
US15248	40-52.7	140-45.8	6/1	1533-1536	32	NE-1	NNW-1	NE-3	19.9	15.7	bc	1011.2
US15249	40-55.4	140-46.3	6/2	0657-0701	41	SW-1	South-1	SW-3	19.2	15.5	bc	1011.0
US15250	40-57.2	140-45.1	6/2	0744-0748	47	NW-1	WNW-1	NW-3	19.8	14.9	bc	1011.1
US15251	40-59.4	140-46.4	6/2	0806-0810	52	NW-1	WNW-1	NW-3	20.0	15.3	bc	1011.0
US15252	41-02.1	140-45.9	6/2	0908-0910	51	NW-1	East-1	NW-2	24.0	14.6	bc	1011.1
US15253	41-03.5	140-51.8	6/2	0944-0947	43	West-1	East-1	West-3	22.7	15.4	bc	1010.8
US15254	41-04.6	140-51.9	6/2	0959-1002	50	WNW-1	SE-1	WNW-4	21.5	15.3	bc	1010.7
US15255	41-04.2	140-58.0	6/2	1118-1120	49	NW-1	West-1	NW-3	23.9	16.0	bc	1010.2
US15256	41-02.1	141-00.4	6/2	1138-1142	48	calm	west-1	calm	21.4	16.8	bc	1010.1
US15257	41-04.5	141-02.0	6/2	1209-1213	47	WNW-3	WNW-1	WNW-5	20.8	15.5	bc	1009.6
US15258	41-09.1	141-09.7	6/2	1330-1331	34	West-2	WNW-1	West-4	20.1	14.8	bc	1009.4
US15259	41-00.3	141-06.8	6/2	1517-1520	43	West-2	WNW-1	West-3	19.4	15.1	bc	1009.8
US15260	40-57.1	141-06.9	6/2	1543-1545	36	NNW-1	West-1	NNW-3	20.6	15.6	c	1009.7
US15261	41-05.7	141-09.9	6/3	0713-0716	38	calm	SSW-1	calm	17.2	15.0	c	1004.8
US15262	41-11.3	141-10.8	6/3	0756-0758	29	NE-1	SW-1	NE-2	17.2	15.1	c	1004.1
US15263	41-07.3	141-03.2	6/3	0843-0845	41	NE-1	SW-1	NE-3	18.9	14.7	c	1003.5
US15264	41-06.6	140-56.3	6/3	0922-0925	45	ESE-1	NNE-1	ESE-3	17.2	14.7	c	1002.8
US15265	41-06.0	140-51.8	6/3	0947-0950	50	East-1	NE-1	East-3	18.9	14.9	c	1002.5
US15266	41-05.7	140-48.1	6/3	1016-1019	57	East-1	NE-1	East-4	18.4	15.2	c	1001.8
US15267	41-08.9	140-44.0	6/3	1046-1051	60	ESE-2	East-1	ESE-4	17.1	14.9	c	1000.2
US15268	41-09.6	140-41.4	6/3	1115-1119	52	ESE-2	East-1	ESE-4	18.6	14.7	c	1000.4

(*): Fixed position by Global Positioning System

Table 2. Oceanographic data

STATION US15184				STATION US15185				STATION US15185-2			
LATITUDE 42-11.3 N				LATITUDE 42-22.1 N				LATITUDE 41-08.6 N			
LONGITUDE 140-59.9 E				LONGITUDE 140-48.3 E				LONGITUDE 140-44.1 E			
DEPTH (m) 78				DEPTH (m) 51				DEPTH (m) 59			
Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T
5	7.070	32.026	25.067	5	9.219	31.730	24.525	5	8.753	31.763	24.622
10	6.739	32.100	25.169	10	8.303	31.757	24.684	10	8.523	31.776	24.667
20	4.767	32.554	25.762	20	5.302	32.112	25.353	20	5.309	32.076	25.324
30	3.813	32.720	25.991	30	4.335	32.315	25.617	30	4.532	32.270	25.561
40	3.549	32.763	26.050	40	3.640	32.506	25.837				
50	3.292	32.881	26.168								
STATION US15185-3				STATION US15185-4				STATION US15185-5			
LATITUDE 41-05.9 N				LATITUDE 42-23.1 N				LATITUDE 42-21.4 N			
LONGITUDE 140-42.7 E				LONGITUDE 140-46.7 E				LONGITUDE 140-48.7 E			
DEPTH (m) 53				DEPTH (m) 48				DEPTH (m) 52			
Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T
No Data				5	9.153	31.701	24.512	5	8.754	31.779	24.634
				10	8.519	31.748	24.645	10	6.230	31.909	25.083
				20	5.819	32.012	25.214	20	4.557	32.255	25.547
				30	4.504	32.270	25.564	30	3.863	32.455	25.776
				40	3.564	32.548	25.878	40	3.326	32.644	25.976
STATION US15185-6				STATION US15186				STATION US15187			
LATITUDE 42-22.4 N				LATITUDE 41-58.9 N				LATITUDE 41-59.4 N			
LONGITUDE 140-47.5 E				LONGITUDE 140-56.8 E				LONGITUDE 141-01.8 E			
DEPTH (m) 49				DEPTH (m) 73				DEPTH (m) 101			
Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T
5	8.922	31.684	24.535	5	9.460	31.760	24.511	5	8.663	31.851	24.704
10	7.976	31.757	24.731	10	8.874	31.762	24.603	10	8.522	31.861	24.733
20	4.573	32.216	25.514	20	6.319	31.912	25.074	20	5.178	32.116	25.370
30	3.869	32.436	25.760	30	3.732	32.499	25.823	30	3.606	32.498	25.834
40	3.409	32.620	25.946	40	3.943	32.700	25.962	40	3.901	32.662	25.936
				50	3.522	32.794	26.077	50	3.402	32.719	26.029
								75	3.685	33.120	26.321
STATION US15188				STATION US15189				STATION US15190			
LATITUDE 41-58.7 N				LATITUDE 41-58.0 N				LATITUDE 41-00.2 N			
LONGITUDE 141-00.6 E				LONGITUDE 140-59.4 E				LONGITUDE 140-46.3 E			
DEPTH (m) 94				DEPTH (m) 80				DEPTH (m) 52			
Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T	Press.	Temp.	Salinity	Sigma-T
5	8.784	31.835	24.674	5	8.771	31.843	24.682	5	8.967	31.828	24.641
10	8.778	31.842	24.680	10	8.766	31.842	24.682	10	8.957	31.828	24.642
20	5.518	32.004	25.243	20	7.682	31.845	24.841	20	8.668	31.792	24.658
30	3.741	32.614	25.914	30	4.093	32.343	25.664	30	4.453	32.256	25.559
40	3.665	32.702	25.990	40	3.855	32.659	25.938	40	3.944	32.694	25.957
50	3.147	32.712	26.046	50	3.837	32.798	26.050	50	3.843	32.828	26.074
75	3.422	33.108	26.337	75	4.460	33.259	26.354				

STATION US15191			
LATITUDE 42-10.5 N			
LONGITUDE 140-47.4 E			
DEPTH (m) 92			
Press.	Temp.	Salinity	Sigma-T
5	8.840	31.693	24.554
10	4.895	32.159	25.435
20	4.151	32.486	25.772
30	3.523	32.607	25.929
40	3.317	32.728	26.044
50	3.052	32.835	26.152
75	3.613	33.263	26.442

STATION US15194			
LATITUDE 42-11.2 N			
LONGITUDE 140-35.4 E			
DEPTH (m) 81			
Press.	Temp.	Salinity	Sigma-T
5	8.862	31.674	24.536
10	8.567	31.711	24.609
20	4.508	32.253	25.550
30	3.488	32.553	25.889
40	3.102	32.728	26.063
50	2.937	32.861	26.183
75	3.681	33.256	26.430

STATION US15197			
LATITUDE 42-19.1 N			
LONGITUDE 140-23.1 E			
DEPTH (m) 54			
Press.	Temp.	Salinity	Sigma-T
5	9.126	31.588	24.428
10	8.769	31.709	24.577
20	4.645	32.177	25.476
30	2.728	32.480	25.808
40	3.041	32.702	26.048
50	2.982	32.826	26.151

STATION US15200			
LATITUDE 42-31.3 N			
LONGITUDE 140-37.5 E			
DEPTH (m) 60			
Press.	Temp.	Salinity	Sigma-T
5	8.324	31.838	24.745
10	7.581	31.935	24.927
20	4.558	32.229	25.527
30	3.836	32.444	25.769
40	3.295	32.667	25.997
50	3.053	32.910	26.213

STATION US15192			
LATITUDE 42-13.2 N			
LONGITUDE 140-41.6 E			
DEPTH (m) 90			
Press.	Temp.	Salinity	Sigma-T
5	8.337	31.810	24.720
10	6.956	31.951	25.024
20	4.799	32.189	25.469
30	4.259	32.406	25.698
40	3.549	32.609	25.928
50	3.199	32.825	26.131
75	3.253	33.116	26.359

STATION US15195			
LATITUDE 42-16.5 N			
LONGITUDE 140-36.0 E			
DEPTH (m) 91			
Press.	Temp.	Salinity	Sigma-T
5	8.512	31.798	24.685
10	8.126	31.862	24.792
20	7.119	31.917	24.975
30	4.500	32.295	25.585
40	4.375	32.490	25.753
50	3.125	32.734	26.066
75	3.513	33.136	26.351
85	4.405	33.538	26.581

STATION US15198			
LATITUDE 42-23.8 N			
LONGITUDE 140-31.3 E			
DEPTH (m) 96			
Press.	Temp.	Salinity	Sigma-T
5	9.523	31.591	24.368
10	8.892	31.784	24.617
20	6.354	32.051	25.180
30	4.610	32.232	25.523
40	3.663	32.482	25.816
50	2.906	32.880	26.201
75	4.026	33.369	26.486

STATION US15201			
LATITUDE 42-26.1 N			
LONGITUDE 140-37.1 E			
DEPTH (m) 83			
Press.	Temp.	Salinity	Sigma-T
5	8.934	31.796	24.621
10	8.628	31.840	24.701
20	5.271	32.141	25.379
30	4.514	32.279	25.379
40	3.302	32.608	25.571
50	2.914	32.906	25.950
75	4.117	33.436	26.221

STATION US15193			
LATITUDE 42-09.8 N			
LONGITUDE 140-36.4 E			
DEPTH (m) 71			
Press.	Temp.	Salinity	Sigma-T
5	8.938	31.667	24.519
10	7.883	31.795	24.774
20	4.034	32.377	25.697
30	3.441	32.589	25.922
40	3.195	32.768	26.086
50	2.946	32.868	26.188

STATION US15196			
LATITUDE 42-14.0 N			
LONGITUDE 140-29.8 E			
DEPTH (m) 77			
Press.	Temp.	Salinity	Sigma-T
5	8.783	31.719	24.583
10	8.205	31.756	24.694
20	4.884	32.200	25.468
30	4.013	32.500	25.796
40	3.275	32.600	25.945
50	2.831	32.856	26.188

STATION US15199			
LATITUDE 42-28.9 N			
LONGITUDE 140-31.4 E			
DEPTH (m) 75			
Press.	Temp.	Salinity	Sigma-T
5	9.081	31.700	24.523
10	8.453	31.843	24.730
20	5.133	32.070	25.339
30	4.232	32.321	25.632
40	3.390	32.562	25.905
50	2.894	32.867	26.192

STATION US15202			
LATITUDE 42-23.3 N			
LONGITUDE 140-42.6 E			
DEPTH (m) 61			
Press.	Temp.	Salinity	Sigma-T
5	9.433	31.703	24.470
10	8.965	31.764	24.590
20	6.117	31.991	25.161
30	4.910	32.206	25.471
40	3.682	32.460	25.797
50	2.934	32.872	26.192
60	3.131	33.022	26.295

STATION US15203			
LATITUDE 42-21.0 N			
LONGITUDE 140-36.7 E			
DEPTH (m) 87			
Press.	Temp.	Salinity	Sigma-T
5	9.921	31.634	24.337
10	9.739	31.625	24.360
20	6.821	31.900	25.001
30	5.263	32.172	25.405
40	4.042	32.485	25.782
50	3.248	32.663	25.998
75	3.344	33.122	26.355

STATION US15206			
LATITUDE 42-17.5 N			
LONGITUDE 140-53.9 E			
DEPTH (m) 56			
Press.	Temp.	Salinity	Sigma-T
5	9.050	31.766	24.579
10	7.710	31.791	24.795
20	4.349	32.486	25.752
30	3.377	32.623	25.954
40	3.178	32.684	26.021
50	3.003	32.826	26.150

STATION US15209			
LATITUDE 42-12.7 N			
LONGITUDE 140-56.3 E			
DEPTH (m) 70			
Press.	Temp.	Salinity	Sigma-T
5	7.554	31.966	24.955
10	7.213	31.921	24.966
20	4.149	32.589	25.854
30	3.807	32.684	25.963
40	3.597	32.735	26.024
50	3.189	32.793	26.107

STATION US15212			
LATITUDE 42-00.7 N			
LONGITUDE 141-00.8 E			
DEPTH (m) 91			
Press.	Temp.	Salinity	Sigma-T
5	8.644	31.751	24.629
10	8.220	31.804	24.733
20	4.931	32.443	25.656
30	4.125	32.740	25.977
40	3.659	32.825	26.090
50	3.048	32.925	26.225
75	5.182	33.517	26.479

STATION US15204			
LATITUDE 42-18.5 N			
LONGITUDE 140-42.2 E			
DEPTH (m) 66			
Press.	Temp.	Salinity	Sigma-T
5	9.585	31.669	24.419
10	9.338	31.684	24.470
20	7.394	31.811	24.854
30	4.997	32.163	25.427
40	4.093	32.374	25.689
50	3.419	32.610	25.941

STATION US15207			
LATITUDE 42-15.0 N			
LONGITUDE 141-04.7 E			
DEPTH (m) 79			
Press.	Temp.	Salinity	Sigma-T
5	7.282	32.020	25.034
10	5.519	32.328	25.498
20	3.548	32.627	25.942
30	3.151	32.753	26.079
40	3.111	32.897	26.197
50	3.271	32.992	26.259

STATION US15210			
LATITUDE 42-09.3 N			
LONGITUDE 140-52.9 E			
DEPTH (m) 78			
Press.	Temp.	Salinity	Sigma-T
5	7.659	31.998	24.966
10	7.463	31.998	24.992
20	4.883	32.458	25.673
30	3.835	32.649	25.933
40	3.674	32.746	26.024
50	3.297	32.820	26.119
75	4.578	33.346	26.410

STATION US15213			
LATITUDE 42-23.8 N			
LONGITUDE 140-32.0 E			
DEPTH (m) 95			
Press.	Temp.	Salinity	Sigma-T
5	7.248	32.170	25.157
10	7.243	32.237	25.210
20	4.612	32.643	25.849
30	3.884	32.846	26.085
40	3.225	32.949	26.228
50	3.259	33.022	26.283
75	4.830	33.405	26.430
100	4.715	33.393	26.433

STATION US15205			
LATITUDE 42-15.4 N			
LONGITUDE 140-47.4 E			
DEPTH (m) 72			
Press.	Temp.	Salinity	Sigma-T
5	9.216	31.741	24.534
10	9.179	31.745	24.543
20	7.307	31.793	24.852
30	3.957	32.369	25.698
40	3.404	32.633	25.960
50	3.143	32.775	26.096

STATION US15208			
LATITUDE 42-11.3 N			
LONGITUDE 141-02.7 E			
DEPTH (m) 83			
Press.	Temp.	Salinity	Sigma-T
5	7.443	31.968	24.972
10	5.215	32.233	25.459
20	3.731	32.615	25.915
30	3.022	32.799	26.127
40	3.450	33.048	26.287
50	3.535	33.099	26.319

STATION US15211			
LATITUDE 42-05.0 N			
LONGITUDE 140-56.5 E			
DEPTH (m) 84			
Press.	Temp.	Salinity	Sigma-T
5	8.015	31.896	24.835
10	7.527	31.964	24.957
20	4.962	32.392	25.612
30	3.797	32.642	25.933
40	3.560	32.774	26.058
50	3.403	32.880	26.157
75	4.808	33.443	26.462

STATION US15214			
LATITUDE 42-09.5 N			
LONGITUDE 141-20.0 E			
DEPTH (m) 366			
Press.	Temp.	Salinity	Sigma-T
5	7.609	32.432	25.313
10	7.617	32.430	25.311
20	7.385	32.691	25.548
30	5.913	33.047	26.020
40	7.815	33.843	26.392
50	8.404	33.836	26.299
75	7.382	33.755	26.385
100	6.787	33.774	26.482
125	6.084	33.672	26.493
150	6.298	33.725	26.508
175	4.316	33.467	26.535
200	3.842	33.434	26.557
250	2.960	33.451	26.652
300	2.822	33.520	26.719

STATION		US15215	
LATITUDE		42-00.1	N
LONGITUDE		141-10.2	E
DEPTH (m)		137	
Press.	Temp.	Salinity	Sigma-T
5	8.260	31.837	24.753
10	7.795	31.919	24.884
20	4.496	32.602	25.829
30	3.745	32.685	25.970
40	3.217	32.812	26.120
50	3.688	33.104	26.308
75	5.353	33.471	26.422
100	5.067	33.464	26.450
125	5.257	33.503	26.459

STATION		US15216	
LATITUDE		41-52.0	N
LONGITUDE		141-09.9	E
DEPTH (m)		110	
Press.	Temp.	Salinity	Sigma-T
5	8.300	31.880	24.781
10	5.555	32.130	25.338
20	3.900	32.694	25.962
30	3.594	32.826	26.097
40	3.344	32.879	26.162
50	2.783	32.904	26.231
75	3.708	33.135	26.331
100	4.893	33.408	26.425

STATION		US15217	
LATITUDE		41-53.4	N
LONGITUDE		141-07.3	E
DEPTH (m)		93	
Press.	Temp.	Salinity	Sigma-T
5	8.141	31.900	24.819
10	7.213	31.914	24.960
20	3.897	32.646	25.924
30	3.764	32.718	25.994
40	3.508	32.797	26.081
50	3.337	32.945	26.215
75	3.738	33.230	26.404

STATION		US15218	
LATITUDE		41-55.3	N
LONGITUDE		141-04.6	E
DEPTH (m)		110	
Press.	Temp.	Salinity	Sigma-T
5	8.192	32.015	24.903
10	8.049	32.010	24.920
20	4.121	32.587	25.855
30	3.439	32.738	26.041
40	3.055	32.782	26.110
50	2.755	32.847	26.187
75	4.290	33.217	26.338
100	4.574	33.379	26.437

STATION		US15219	
LATITUDE		41-56.9	N
LONGITUDE		141-02.3	E
DEPTH (m)		104	
Press.	Temp.	Salinity	Sigma-T
5	8.091	32.068	24.959
10	8.065	32.069	24.963
20	4.797	32.512	25.725
30	3.534	32.711	26.011
40	3.336	32.820	26.116
50	3.363	32.954	26.219
75	4.202	33.268	26.388

STATION		US15220	
LATITUDE		42-15.4	N
LONGITUDE		140-37.8	E
DEPTH (m)		88	
Press.	Temp.	Salinity	Sigma-T
5	8.887	31.829	24.653
10	8.822	31.846	24.677
20	5.033	32.173	25.434
30	4.035	32.393	25.709
40	3.782	32.679	25.962
50	3.181	32.729	26.057
75	3.859	33.325	26.468

STATION		US15221	
LATITUDE		41-26.2	N
LONGITUDE		141-15.7	E
DEPTH (m)		77	
Press.	Temp.	Salinity	Sigma-T
5	11.274	33.743	25.747
10	10.980	33.780	25.829
20	10.535	33.878	25.984
30	10.388	33.912	26.036
40	10.193	33.978	26.121
50	10.119	34.027	26.172

STATION		US15221-2	
LATITUDE		41-26.1	N
LONGITUDE		141-15.6	E
DEPTH (m)		76	
Press.	Temp.	Salinity	Sigma-T
5	11.470	33.766	25.730
10	11.156	33.729	25.758
20	10.668	33.852	25.940
30	11.468	33.895	26.009
40	10.209	33.971	26.113
50	10.140	34.022	26.165
65	10.078	34.055	26.200

STATION		US15222	
LATITUDE		41-32.0	N
LONGITUDE		141-22.2	E
DEPTH (m)		253	
Press.	Temp.	Salinity	Sigma-T
5	11.586	33.712	25.666
10	11.368	33.703	25.699
20	10.869	33.677	25.768
30	10.900	33.909	25.944
40	10.730	33.937	25.996
50	10.452	33.967	26.068
75	10.112	34.017	26.165
100	10.041	34.041	26.196
125	9.962	34.030	26.201
150	9.218	33.925	26.242
175	8.700	33.944	26.338
200	8.097	33.916	26.409

STATION		US15222-2	
LATITUDE		41-32.2	N
LONGITUDE		141-22.4	E
DEPTH (m)		253	
Press.	Temp.	Salinity	Sigma-T
5	11.609	33.713	25.662
10	11.369	33.714	25.707
20	11.002	33.692	25.757
30	10.806	33.816	25.888
40	10.674	33.937	26.005
50	10.402	33.972	26.080
75	10.084	34.039	26.187
100	10.979	34.043	26.192
125	10.019	34.046	26.204
150	9.032	33.925	26.271
175	7.982	33.863	26.384
200	7.678	33.863	26.428

STATION		US15224	
LATITUDE		41-46.9	N
LONGITUDE		141-14.8	E
DEPTH (m)		206	
Press.	Temp.	Salinity	Sigma-T
5	7.853	32.158	25.064
10	6.527	32.373	25.411
20	3.645	32.723	26.009
30	3.268	32.855	26.150
40	2.811	32.934	26.252
50	2.976	32.986	26.279
75	4.779	33.351	26.393
100	5.015	33.434	26.432
125	5.068	33.465	26.451
150	4.976	33.459	26.456
175	4.532	33.446	26.495

STATION		US15227	
LATITUDE		41-37.7	N
LONGITUDE		141-19.0	E
DEPTH (m)		216	
Press.	Temp.	Salinity	Sigma-T
5	7.190	32.459	25.392
10	7.758	32.812	25.590
20	9.795	33.617	25.906
30	9.853	33.676	25.942
40	9.880	33.819	26.050
50	9.583	33.876	26.144
75	8.907	33.911	26.280
100	8.050	33.875	26.383
125	7.238	33.801	26.442
150	6.704	33.765	26.486
175	6.163	33.725	26.524
200	5.703	33.695	26.558
205	5.664	33.696	26.563

STATION		US15223	
LATITUDE		41-49.3	N
LONGITUDE		141-12.7	E
DEPTH (m)		132	
Press.	Temp.	Salinity	Sigma-T
5	7.917	32.105	25.013
10	7.686	32.147	25.078
20	4.676	32.581	25.793
30	3.671	32.689	25.980
40	3.236	32.873	26.167
50	3.790	33.141	26.328
75	5.333	33.479	26.431
100	6.416	33.696	26.469
120	5.579	33.567	26.472

STATION		US15225	
LATITUDE		41-44.2	N
LONGITUDE		141-15.8	E
DEPTH (m)		228	
Press.	Temp.	Salinity	Sigma-T
5	7.925	32.224	25.105
10	7.327	32.491	25.399
20	4.281	33.044	26.202
30	2.861	32.988	26.291
40	2.840	33.020	26.318
50	2.958	33.063	26.343
75	5.115	33.451	26.435
100	5.845	33.591	26.458
125	6.200	33.680	26.485
150	6.308	33.713	26.496
175	5.102	33.576	26.535
200	3.905	33.473	26.581
215	3.766	33.471	26.593

STATION		US15228	
LATITUDE		41-35.1	N
LONGITUDE		141-20.5	E
DEPTH (m)		313	
Press.	Temp.	Salinity	Sigma-T
5	10.768	33.643	25.760
10	10.570	33.795	25.913
20	10.308	33.923	26.059
30	10.012	34.032	26.194
40	9.926	34.039	26.214
50	9.906	34.039	26.218
75	9.917	34.039	26.216
100	9.867	34.045	26.229
125	9.434	33.994	26.261
150	9.006	33.944	26.290
175	8.077	33.865	26.371
200	8.065	33.868	26.375
250	6.019	33.696	26.520
300	5.131	33.632	26.576

STATION		US15223-2	
LATITUDE		41-49.0	N
LONGITUDE		141-14.0	E
DEPTH (m)		158	
Press.	Temp.	Salinity	Sigma-T
5	8.065	32.075	24.968
10	7.748	32.131	25.057
20	4.489	32.579	25.811
30	3.264	32.740	26.058
40	3.290	32.937	26.213
50	4.126	33.211	26.350
75	5.251	33.460	26.426
100	5.396	33.502	26.442
125	5.209	33.531	26.487
150	5.296	33.537	26.482

STATION		US15226	
LATITUDE		41-40.9	N
LONGITUDE		141-17.4	E
DEPTH (m)		231	
Press.	Temp.	Salinity	Sigma-T
5	8.509	32.907	25.555
10	8.903	33.200	25.724
20	9.903	33.795	26.028
30	9.620	33.864	26.130
40	9.334	33.890	26.195
50	8.967	33.911	26.291
75	8.485	33.928	26.359
100	8.208	33.909	26.386
125	7.485	33.842	26.439
150	6.349	33.750	26.520
175	5.320	33.658	26.575
200	3.558	33.488	26.627

STATION		US15229	
LATITUDE		41-29.5	N
LONGITUDE		141-23.2	E
DEPTH (m)		129	
Press.	Temp.	Salinity	Sigma-T
5	10.930	33.962	25.980
10	10.872	33.972	25.997
20	10.817	33.980	26.014
30	10.754	33.982	26.027
40	10.619	33.985	26.053
50	10.398	34.011	26.111
75	10.379	34.018	26.120
100	10.387	34.017	26.118

STATION US15230			
LATITUDE	41-27.8	N	
LONGITUDE	141-23.9	E	
DEPTH (m)	57		
Press.	Temp.	Salinity	Sigma-T
5	10.900	33.825	25.851
10	10.846	33.820	25.867
20	10.787	33.828	25.891
30	10.777	33.836	25.907
40	10.648	33.837	25.910

STATION US15233			
LATITUDE	41-38.7	N	
LONGITUDE	140-49.3	E	
DEPTH (m)	348		
Press.	Temp.	Salinity	Sigma-T
5	11.834	33.805	25.692
10	11.824	33.814	25.701
20	11.582	33.880	25.797
30	11.489	33.902	25.832
40	11.444	33.915	25.850
50	11.378	33.931	25.875
75	10.696	34.058	26.096
100	10.307	34.115	26.208
125	10.206	34.125	26.234
150	10.219	34.121	26.228
175	10.182	34.125	26.237
200	10.035	34.134	26.270
250	9.861	34.142	26.306
300	9.635	34.151	26.350
320	9.632	34.151	26.351

STATION US15236			
LATITUDE	41-22.8	N	
LONGITUDE	139-49.3	E	
DEPTH (m)	520		
Press.	Temp.	Salinity	Sigma-T
5	13.975	34.128	25.518
10	12.880	34.016	25.654
20	11.367	34.024	25.949
30	10.616	33.980	26.049
40	9.687	34.126	26.322
50	7.717	34.101	26.609
75	6.397	34.114	26.801
100	3.946	34.063	27.046
125	3.106	34.053	27.119

STATION US15231			
LATITUDE	41-35.5	N	
LONGITUDE	140-53.3	E	
DEPTH (m)	50		
Press.	Temp.	Salinity	Sigma-T
5	12.338	33.567	25.412
10	12.304	33.592	25.438
20	11.916	33.742	25.628
30	11.365	33.883	25.840
40	10.892	33.939	25.969

STATION US15234			
LATITUDE	41-40.7	N	
LONGITUDE	140-47.3	E	
DEPTH (m)	232		
Press.	Temp.	Salinity	Sigma-T
5	11.887	33.817	25.692
10	11.843	33.819	25.701
20	11.670	33.893	25.791
30	11.349	33.895	25.852
40	11.073	33.962	25.954
50	10.900	34.034	26.041
75	10.356	34.092	26.182
100	10.026	34.107	26.250
125	9.784	34.131	26.310
150	9.560	34.144	26.357
175	9.484	34.151	26.375
200	9.447	34.152	26.382

STATION US15237			
LATITUDE	41-22.2	N	
LONGITUDE	139-46.6	E	
DEPTH (m)	148		
Press.	Temp.	Salinity	Sigma-T
5	11.844	34.029	25.865
10	11.343	34.072	25.991
20	10.544	34.053	26.119
30	10.226	34.072	26.188
40	8.591	34.107	26.483
50	7.216	34.040	26.633
75	4.826	34.049	26.941
100	2.894	34.046	27.133
125	2.635	34.047	27.157

STATION US15232			
LATITUDE	41-36.9	N	
LONGITUDE	140-51.3	E	
DEPTH (m)	94		
Press.	Temp.	Salinity	Sigma-T
5	11.985	33.678	25.566
10	11.987	33.682	25.568
20	11.925	33.701	25.594
30	11.795	33.766	25.669
40	11.671	33.818	25.733
50	11.444	33.884	25.826
75	10.825	34.037	26.057

STATION US15235			
LATITUDE	41-42.8	N	
LONGITUDE	140-45.1	E	
DEPTH (m)	85		
Press.	Temp.	Salinity	Sigma-T
5	11.270	33.860	25.839
10	11.276	33.860	25.838
20	11.328	33.916	25.872
30	10.805	33.991	26.024
40	10.463	34.032	26.116
50	10.135	34.055	26.191
75	9.771	34.133	26.313

STATION US15238			
LATITUDE	41-42.8	N	
LONGITUDE	140-45.1	E	
DEPTH (m)	85		
Press.	Temp.	Salinity	Sigma-T
5	12.472	33.985	25.711
10	10.188	33.829	26.006
20	9.637	33.922	26.171
30	8.608	33.924	26.337
40	6.690	34.011	26.682
50	6.418	34.062	26.758
75	4.762	34.028	26.931
100	3.304	34.005	27.073
125	2.499	34.021	27.147
145	2.266	34.030	27.174

STATION US15239			
LATITUDE 41-20.1 N			
LONGITUDE 139-51.3 E			
DEPTH (m) 208			
Press.	Temp.	Salinity	Sigma-T
5	14.098	34.095	25.467
10	13.608	33.976	25.477
20	10.012	33.870	26.068
30	9.920	34.131	26.287
40	8.836	34.164	26.489
50	8.136	34.133	26.573
75	5.534	34.040	26.851
100	3.145	34.004	27.077
125	2.102	34.020	27.179

STATION US15242			
LATITUDE 42-06.2 N			
LONGITUDE 139-32.2 E			
DEPTH (m) 213			
Press.	Temp.	Salinity	Sigma-T
5	12.459	34.096	25.799
10	12.436	34.096	25.804
20	12.271	34.102	25.840
30	12.178	34.107	25.861
40	11.073	34.049	26.022
50	9.538	34.086	26.315
75	7.791	34.109	26.605
100	5.573	34.065	26.867
125	4.342	34.055	26.999

STATION US15245			
LATITUDE 41-12.9 N			
LONGITUDE 140-41.5 E			
DEPTH (m) 81			
Press.	Temp.	Salinity	Sigma-T
5	15.258	33.341	24.637
10	14.891	33.413	24.772
20	14.153	33.609	25.081
30	13.560	33.582	25.182
40	12.147	33.825	25.649
50	10.413	34.183	26.243
75	10.199	34.203	26.295

STATION US15248			
LATITUDE 40-52.7 N			
LONGITUDE 140-45.8 E			
DEPTH (m) 32			
Press.	Temp.	Salinity	Sigma-T
5	15.655	33.186	24.430
10	15.094	33.243	24.597
20	12.936	33.340	25.120

STATION US15240			
LATITUDE 41-31.5 N			
LONGITUDE 139-23.9 E			
DEPTH (m) 208			
Press.	Temp.	Salinity	Sigma-T
5	13.103	34.074	25.655
10	12.497	34.020	25.732
20	10.707	34.064	26.099
30	10.259	34.194	26.278
40	9.121	34.153	26.436
50	8.763	34.148	26.488
75	6.393	34.087	26.780
100	5.242	34.079	26.917
125	4.604	34.070	26.982

STATION US15243			
LATITUDE 42-10.9 N			
LONGITUDE 139-33.5 E			
DEPTH (m) 303			
Press.	Temp.	Salinity	Sigma-T
5	12.551	34.110	25.792
10	12.368	34.083	25.807
20	11.459	34.079	25.975
30	10.945	34.109	26.092
40	10.007	34.160	26.295
50	9.623	34.144	26.347
75	7.938	34.123	26.594
100	6.245	34.062	26.780
125	5.376	34.069	26.893
150	3.311	34.022	27.076

STATION US15246			
LATITUDE 41-05.3 N			
LONGITUDE 140-43.7 E			
DEPTH (m) 61			
Press.	Temp.	Salinity	Sigma-T
5	14.747	33.238	24.668
10	14.627	33.241	24.696
20	12.768	33.336	25.150
30	11.368	33.273	25.365
40	12.055	33.769	25.623
50	10.989	33.977	25.981

STATION US15249			
LATITUDE 40-55.4 N			
LONGITUDE 140-46.3 E			
DEPTH (m) 41			
Press.	Temp.	Salinity	Sigma-T
5	15.571	33.223	24.477
10	14.253	33.202	24.746
20	12.979	33.388	25.148
30	11.980	33.478	25.411

STATION US15241			
LATITUDE 41-42.8 N			
LONGITUDE 140-45.1 E			
DEPTH (m) 85			
Press.	Temp.	Salinity	Sigma-T
5	13.094	34.108	25.683
10	11.810	34.000	25.849
20	10.344	34.156	26.234
30	9.684	34.158	26.348
40	8.851	34.079	26.420
50	7.950	34.138	26.604
75	6.390	34.078	26.774
100	5.500	34.088	26.894
125	4.526	34.053	26.977

STATION US15244			
LATITUDE 42-16.1 N			
LONGITUDE 139-34.6 E			
DEPTH (m) 118			
Press.	Temp.	Salinity	Sigma-T
5	12.839	34.116	25.740
10	12.698	34.119	25.771
20	12.622	34.123	25.788
30	11.551	34.094	25.969
40	10.496	34.095	26.165
50	9.100	34.140	26.428
75	7.125	34.066	26.666
100	6.166	34.088	26.811

STATION US15247			
LATITUDE 41-01.9 N			
LONGITUDE 140-43.2 E			
DEPTH (m) 57			
Press.	Temp.	Salinity	Sigma-T
5	14.566	33.288	24.745
10	14.457	33.277	24.760
20	13.647	33.269	24.923
30	12.134	33.377	25.304
40	11.328	33.714	25.715
50	11.098	33.925	25.922

STATION US15250			
LATITUDE 40-57.2 N			
LONGITUDE 140-45.1 E			
DEPTH (m) 47			
Press.	Temp.	Salinity	Sigma-T
5	14.905	33.262	24.653
10	14.475	33.231	24.721
20	12.921	33.371	25.146
30	12.226	33.483	25.368
40	11.205	33.569	25.624

STATION US15251			
LATITUDE 40-59.4 N			
LONGITUDE 140-46.4 E			
DEPTH (m) 52			
Press.	Temp.	Salinity	Sigma-T
5	15.135	33.215	24.567
10	14.087	33.219	24.796
20	12.749	33.326	25.146
30	11.842	33.489	25.445
40	10.043	33.397	25.693

STATION US15254			
LATITUDE 40-04.6 N			
LONGITUDE 140-51.9 E			
DEPTH (m) 50			
Press.	Temp.	Salinity	Sigma-T
5	14.987	33.121	24.531
10	14.549	33.153	24.645
20	12.952	33.192	25.002
30	12.047	33.454	25.379
40	11.265	33.666	25.689

STATION US15257			
LATITUDE 40-04.5 N			
LONGITUDE 141-02.0 E			
DEPTH (m) 47			
Press.	Temp.	Salinity	Sigma-T
5	15.204	33.131	24.487
10	14.550	33.141	24.635
20	14.226	33.148	24.709
30	13.088	33.169	24.957
40	11.791	33.220	25.246

STATION US15260			
LATITUDE 40-57.1 N			
LONGITUDE 141-06.9 E			
DEPTH (m) 36			
Press.	Temp.	Salinity	Sigma-T
5	15.342	33.089	24.424
10	14.689	33.101	24.575
20	14.064	33.118	24.720
30	11.967	33.135	25.147

STATION US15263			
LATITUDE 41-07.3 N			
LONGITUDE 141-03.2 E			
DEPTH (m) 41			
Press.	Temp.	Salinity	Sigma-T
5	14.766	33.187	24.625
10	14.601	33.179	24.654
20	13.526	33.125	24.836
30	12.554	33.197	25.084

STATION US15252			
LATITUDE 41-05.3 N			
LONGITUDE 140-43.7 E			
DEPTH (m) 61			
Press.	Temp.	Salinity	Sigma-T
5	14.534	33.264	24.734
10	14.363	33.289	24.789
20	13.255	33.334	25.052
30	12.022	33.444	25.377
40	10.975	33.605	25.694

STATION US15255			
LATITUDE 40-04.2 N			
LONGITUDE 140-58.0 E			
DEPTH (m) 49			
Press.	Temp.	Salinity	Sigma-T
5	14.944	33.103	24.522
10	14.247	33.145	24.702
20	13.929	33.152	24.774
30	12.406	33.142	25.069
40	10.538	33.302	25.534
45	9.609	33.367	25.741

STATION US15258			
LATITUDE 40-09.1 N			
LONGITUDE 141-09.7 E			
DEPTH (m) 34			
Press.	Temp.	Salinity	Sigma-T
5	14.846	33.140	24.571
10	13.946	33.155	24.773
20	13.250	33.152	24.912
30	12.638	33.244	25.103

STATION US15261			
LATITUDE 41-05.7 N			
LONGITUDE 141-09.9 E			
DEPTH (m) 38			
Press.	Temp.	Salinity	Sigma-T
5	15.224	33.139	24.489
10	14.758	33.169	24.613
20	13.173	33.103	24.889
30	12.189	33.147	25.114
35	11.694	33.198	25.247

STATION US15264			
LATITUDE 41-06.6 N			
LONGITUDE 140-56.3 E			
DEPTH (m) 45			
Press.	Temp.	Salinity	Sigma-T
5	14.872	33.185	24.601
10	14.832	33.184	24.609
20	13.850	33.114	24.761
30	12.686	33.170	25.058
40	10.254	33.199	25.503

STATION US15253			
LATITUDE 40-03.5 N			
LONGITUDE 140-51.8 E			
DEPTH (m) 43			
Press.	Temp.	Salinity	Sigma-T
5	15.480	33.127	24.424
10	14.591	33.159	24.641
20	13.329	33.081	24.841
30	12.008	33.431	25.369
40	11.693	33.684	25.625

STATION US15256			
LATITUDE 40-02.1 N			
LONGITUDE 141-00.4 E			
DEPTH (m) 48			
Press.	Temp.	Salinity	Sigma-T
5	14.788	33.132	24.577
10	14.709	33.144	24.604
20	14.356	33.163	24.694
30	12.402	33.190	25.107
40	10.694	33.406	25.588

STATION US15259			
LATITUDE 41-00.3 N			
LONGITUDE 141-06.8 E			
DEPTH (m) 43			
Press.	Temp.	Salinity	Sigma-T
5	15.073	33.100	24.491
10	14.519	33.181	24.672
20	14.256	33.167	24.718
30	12.529	33.198	25.089

STATION US15262			
LATITUDE 41-11.3 N			
LONGITUDE 141-10.8 E			
DEPTH (m) 29			
Press.	Temp.	Salinity	Sigma-T
5	14.403	33.117	24.648
10	14.280	33.134	24.687
20	12.985	33.153	24.965

STATION US15265			
LATITUDE 41-06.0 N			
LONGITUDE 140-51.8 E			
DEPTH (m) 29			
Press.	Temp.	Salinity	Sigma-T
5	15.161	33.193	24.544
10	15.120	33.169	24.535
20	12.928	33.127	24.957
30	12.484	33.191	25.092

STATION		US15266	
LATITUDE		41-05.7	N
LONGITUDE		140-48.1	E
DEPTH (m)		57	
Press.	Temp.	Salinity	Sigma-T
5	15.409	33.127	24.439
10	15.380	33.137	24.453
20	13.276	33.290	25.014
30	12.915	33.393	25.165
40	12.144	33.372	25.298
50	10.194	33.860	26.029

STATION		US15267	
LATITUDE		41-08.9	N
LONGITUDE		140-44.0	E
DEPTH (m)		60	
Press.	Temp.	Salinity	Sigma-T
5	15.043	33.439	24.759
10	14.989	33.510	24.825
20	14.844	33.504	24.852
30	14.502	33.529	24.945
40	11.371	33.319	25.400
50	11.799	33.829	25.718

STATION		US15268	
LATITUDE		41-09.6	N
LONGITUDE		140-41.4	E
DEPTH (m)		52	
Press.	Temp.	Salinity	Sigma-T
5	14.832	33.554	24.894
10	14.722	33.591	24.946
20	14.525	33.653	25.036
30	14.369	33.699	25.104
40	13.695	33.750	25.285