

Oceanographic Data
of
KH-71-5 (Phoenix Expedition) of The Hakuho Maru



Oceanographic Research Institute
University of Tokyo

1973

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Hydrographic data of standard hydrocasts

KH-71-5 Station 1		Latitude 29°53.9'N Longitude 169°57.0'W		Nov. 26, 1971 0900-1500		Depth 5,240 meters		Air Temperature 20.5°C				
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	23.6	35.264	4.90	8.33	2.359	0.04	0	0.01	0.1	0	23.6	35.26
10	23.65	35.263	4.68	8.33	2.370	0.00	0	0.00	0.3	10	23.65	35.26
29	23.68	35.264	4.82	8.32	2.349	0.00	0	0.02	0.6	30	23.68	35.26
48	23.65	35.264	4.92	8.33	2.353	0.09	1	0.03	0.2	50	23.64	35.26
72	23.59	35.260	4.91	8.33	2.368	0.03	1	0.03	0.2	75	23.55	35.26
96	20.16	35.065	5.14	8.30	2.343	0.12	2	0.04	0.3	100	20.00	35.05
144	18.38	34.955	4.91	8.27	2.348	0.37	4	0.09	1.6	150	18.11	34.94
192	16.34	34.764	4.89	8.26	2.350	0.46	8	0.05	4.2	200	16.05	34.73
287	13.88	34.536	4.96	8.22	2.338	0.63	12	0.00	6.9	300	13.57	34.51
383	11.77	34.358	4.93	8.20	2.329	0.99	14	0.02	11.6	400	11.37	34.33
479	9.74	34.165	4.47	8.12	2.323	1.48	26	0.02	15.6	500	9.12	34.13
575	7.75	34.054	3.63	8.06	2.328	1.92	42	0.04	22.7	600	7.29	34.04
671	6.08	34.032	2.56	8.00	2.345	2.56	64	0.02	32.1	700	5.63	34.05
766	4.92	34.118	1.34	7.92	2.376	3.05	89	0.02	38.8	800	4.66	34.16
958	3.96	34.301	0.47	7.90	2.444	3.38	118	0.03	43.2	1000	3.78	34.33
930	4.05	34.275	0.71	7.85	2.418	3.34	115	0.02	42.3	1200	3.20	34.45
1124	3.37	34.409	0.71	7.81	2.441	3.35	135	0.00	43.2	1500	2.67	34.54
1416	2.80	34.517	1.09	7.84	2.476	3.30	150	0.00	43.5	2000	2.03	34.61
1903	2.12	34.595	1.69	7.92	2.472	3.13	159	0.02	41.6	2500	1.69	34.65
2387	1.74	34.636	2.26	7.89	2.480	3.06	173	0.00	39.2	3000	1.55	34.66
2875	1.59	34.658	2.72	7.98	2.483	2.91	170	0.02	38.3	3250	1.52	34.67
3124	1.53	34.663	2.93	7.97	2.487	2.86	166	0.00	37.4	3500	1.51	34.68
3362	1.52	34.677	3.08	7.95	2.482	2.80	165	0.01	36.9	3750	1.49	34.68
3604	1.50	34.676	3.18	7.93	2.489	2.70	163	0.01	35.5	4000	1.48	34.68
3846	1.48	34.682	3.34	8.00	2.489	2.86	149	0.01	37.2	4500	1.50	34.69
4330	1.48	34.683	3.43	7.98	2.477	2.82	149	0.02	36.7	5000	1.53	34.69
4812	1.52	34.692	3.57	7.95	2.473	2.76	157	0.02	36.7			
5292	1.54	34.689	3.73	7.97	2.478	2.76	148	0.00	36.1			

KH-71-5 Station 2		Latitude 16°59.3'N Longitude 146°03.2'W		Dec. 1-2, 1971 2132-0302		Depth 4,860 meters		Air Temperature 23.5°C				
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	23.5	34.754	4.79	8.29	2.374	0.21	0	0.01	0.7	0	23.5	34.75
10	23.77	34.751	4.64	8.29	2.362	0.13	0	0.03	0.6	10	23.77	34.75
28	23.78	34.754	4.86	8.30	2.360	0.10	0	0.02	0.5	30	23.78	34.75
47	23.77	34.751	4.83	8.29	2.376	0.20	0	0.02	0.8	50	23.77	34.75
71	23.77	34.749	4.82	8.30	2.384	0.19	1	0.03	0.6	75	23.75	34.75
95	20.99	34.750	4.62	8.29	2.376	0.15	1	0.01	0.5	100	20.76	34.75
142	18.23	34.764	4.05	8.24	2.390	0.36	3	0.06	3.5	150	17.23	34.76
190	12.64	34.188	3.67	8.12	2.279	1.15	13	0.03	12.7	200	12.10	34.19
287	9.24	34.304	1.65	7.89	2.351	2.51	38	0.02	25.8	300	9.08	34.33
381	8.32	34.473	0.38	7.78	2.370	3.00	49	0.02	32.3	400	8.15	34.47
478	7.33	34.475	0.29	7.77	2.388	3.15	59	0.05	37.5	500	7.14	34.47
573	6.51	34.469	0.45	7.79	2.365	3.30	70	0.05	38.5	600	6.30	34.47
670	5.80	34.468	0.58	7.77	2.368	3.12	80	0.01	40.4	700	5.63	34.47
767	5.30	34.491	0.62	7.77	2.397	3.35	87	0.01	41.6	800	5.16	34.50
962	4.48	34.523	0.78	7.78	2.413	3.38	102	0.03	42.2	1000	4.30	34.53
966	4.41	34.528	0.80	7.81	2.404	3.40	105	0.04	41.8	1200	3.61	34.56
1155	3.75	34.555	1.07	7.80	2.424	3.28	118	0.03	41.7	1500	2.97	34.60
1446	3.06	34.591	1.43	7.84	2.448	3.20	134	0.03	38.8	2000	2.07	34.64
1929	2.16	34.635	2.07	7.88	2.437	2.86	155	0.02	38.5	2500	1.68	34.66
2412	1.71	34.660	2.52	7.91	2.479	2.82	159	0.03	37.2	3000	1.61	34.67
2895	1.64	34.673	2.81	7.92	2.482	-	165	0.01	38.7	3250	1.55	34.68
3137	1.57	34.678	2.94	7.93	2.487	2.84	164	0.02	38.4	3500	1.52	34.69
3373	1.54	34.683	3.07	7.91	2.477	2.62	166	0.02	37.4	3750	1.46	34.69
3613	1.49	34.687	3.24	7.95	2.492	2.70	163	0.01	35.5	4000	1.43	34.69
3854	1.44	34.692	3.50	7.94	2.484	2.66	156	0.03	35.0	4500	1.41	34.70
4334	1.41	34.698	3.72	7.93	2.467	2.62	149	0.05	35.0			
4815	1.42	34.699	3.91	7.93	2.460	2.62	143	0.15	34.6			

KH-71-5 Station 3		Latitude 13°54.6'N Longitude 146°01.9'W		Dec. 2-3, 1971 2130-0307		Depth 5,500 meters		Air Temperature 24.0°C				
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	24.0	33.913	4.81	8.24	2.308	0.18	0	0.06	0.3	0	24.0	33.91
9	24.19	33.902	4.65	8.25	2.287	0.15	0	0.03	0.3	10	24.19	33.90
27	24.20	33.903	4.84	8.25	2.306	0.15	0	0.05	0.1	30	24.20	33.90
45	24.25	34.477	4.86	8.25	2.352	0.22	0	0.02	0.3	50	24.18	34.52
68	21.12	34.641	5.05	8.25	2.385	0.19	1	0.05	0.2	75	20.28	34.64
90	18.96	34.634	4.81	8.23	2.352	0.28	1	0.06	0.6	100	17.75	34.57
135	12.60	34.337	2.11	7.98	-	1.82	19	0.06	22.0	150	12.01	34.35
181	11.29	34.537	0.74	7.86	2.342	2.52	29	0.07	29.4	200	11.00	34.56
272	10.06	34.626	0.28	7.82	2.371	2.74	34	0.09	33.4	300	9.75	34.60
364	8.97	34.592	0.26	7.80	2.366	2.90	42	0.10	36.1	400	8.53	34.57
455	7.79	34.530	0.27	7.79	2.371	3.18	54	0.01	37.9	500	7.22	34.52
546	6.77	34.511	0.23	7.77	2.373	3.30	67	0.01	40.5	600	6.42	34.51
638	6.20	34.507	0.30	7.77	2.397	3.36	72	0.00	42.2	700	5.80	34.51
729	5.63	34.508	0.39	7.80	2.381	3.32	79	0.02	42.8	800	5.23	34.52
912	4.68	34.532	0.71	7.80	2.415	3.48	99	0.04	44.1	1000	4.39	34.54
1099	4.08	-	0.92	7.85	2.437	3.54	110	0.10	45.0	1200	3.69	34.57
1386	3.12	34.585	1.50	7.89	2.441	3.26	125	0.02	42.5	1500	2.87	34.60
1601	2.68	34.604	1.70	7.87	2.503	3.25	144	0.00	41.9	2000	2.07	34.64
1790	2.32	34.621	2.00	7.87	2.478	3.08	153	0.00	41.0	2500	1.78	34.66
2075	2.01	34.642	2.29	7.94	2.477	2.99	154	0.03	39.7	3000	1.64	34.68
2550	1.76	34.665	2.68	7.95	2.496	2.84	161	0.10	38.9	3250	1.56	34.68
3025	1.63	34.677	2.87	7.94	2.484	2.78	164	0.10	38.6	3500	1.52	34.68
3503	1.52	34.681	3.21	7.96	2.484	2.67	164	0.00	37.5	3750	1.45	34.68
3741	1.45	34.684	3.41	7.99	2.478	2.67	158	0.00	36.8	4000	1.42	34.69
3980	1.42	34.694	3.63	7.99	2.476	2.61	153	0.01	36.2	4500	1.39	34.70
4218	1.42	34.695	3.64	8.03	2.454	2.54	149	0.01	35.6	5000	1.44	34.70
4456	1.39	34.696	3.78	7.97	2.469	2.60	147	0.02	35.2	5500	(1.51)	(34.70)
4933	1.43	34.696	3.89	7.89	2.462	2.58	144	0.01	35.2			
5412	1.50	34.696	3.94	7.99	2.455	2.45	143	0.02	35.0			

() extrapolated value

KH-71-5 Station 4		Latitude 10°57.3'N Longitude 145°59.3'W		Dec. 3, 1971 1730-2305		Depth 5,150 meters		Air Temperature 25.1°C				
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	25.3	33.963	4.67	8.27	2.305	0.13	0	0.01	0.3	0	25.3	33.96
10	25.36	33.962	4.54	8.29	2.289	0.16	0	0.00	0.8	10	25.36	33.96
29	25.36	33.964	4.70	8.28	2.297	0.15	0	0.00	0.3	30	25.36	33.96
48	25.16	34.037	4.76	8.28	2.327	0.17	0	0.01	1.1	50	24.80	34.05
71	15.90	34.354	3.60	8.13	-	0.90	6	0.20	9.5	75	15.10	34.39
95	12.99	34.413	1.29	7.92	2.325	2.08	20	0.37	24.9	100	12.74	34.44
119	12.03	34.720	0.10	-	-	-	-	-	-	150	11.32	34.73
142	11.50	34.734	0.17	7.82	2.338	2.57	29	0.01	35.2	200	10.60	34.70
190	10.71	34.707	0.28	7.84	2.356	2.62	33	0.00	34.5	300	9.70	34.68
286	9.81	34.682	0.35	7.80	2.342	2.72	36	0.00	35.9	400	8.90	34.64
382	9.04	34.648	0.25	7.81	2.347	2.84	41	0.00	37.5	500	7.75	34.57
478	7.99	34.580	0.27	7.82	2.366	3.13	51	0.00	38.2	600	6.79	34.54
574	7.06	34.548	0.30	7.78	2.371	3.28	60	0.00	40.7	700	6.00	34.53
670	6.18	34.534	0.36	7.78	2.385	3.24	73	0.00	42.9	800	5.40	34.54
767	5.62	34.535	0.62	7.81	2.393	3.28	81	0.00	44.5	1000	4.41	34.56
961	4.56	34.554	0.85	7.81	2.421	3.38	99	0.01	45.0	1200	3.75	34.57
736	5.79	34.532	0.45	7.79	2.374	3.28	78	0.00	43.9	1500	3.00	34.60
904	4.84	34.547	0.79	7.79	2.403	3.36	90	0.00	44.6	2000	2.16	34.64
1158	3.88	34.571	1.23	7.84	2.426	3.20	138	0.05	43.7	2500	1.80	34.66
1587	2.82	34.608	1.66	7.87	2.437	3.12	113	0.02	42.9	3000	1.66	34.68
2030	2.13	34.643	2.20	7.91	2.485	2.93	154	0.00	41.3	3250	1.58	34.68
2478	1.83	34.663	2.57	7.94	2.470	3.01	161	0.01	39.8	3500	1.51	34.68
2703	1.74	34.667	2.65	7.95	2.462	2.82	161	0.00	39.2	3750	1.44	34.69
2929	1.68	34.680	2.77	7.94	2.464	2.74	164	0.00	39.1	4000	1.40	34.69
3157	1.62	34.679	2.95	7.94	2.475	2.82	164	0.02	38.5	4500	1.37	34.70
3386	1.55	34.682	3.06	7.96	2.477	2.66	164	0.01	38.5	5000	(1.40)	(34.70)
3844	1.42	34.694	3.57	7.97	2.475	2.61	152	0.02	37.1			
4303	1.36	34.696	3.85	7.95	2.467	2.54	144	0.01	35.9			
4805	1.39	34.696	3.92	7.94	2.446	2.51	142	-	35.9			

() extrapolated value

KH-71-5 Station 5		Latitude 08°02.1'N Longitude 145°54.3'W		Dec. 4, 1971 1427-1940		Depth 5,220 meters		Air Temperature 26.0°C				
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	26.8	34.424	4.61	8.28	2.315	0.17	0	0.00	0.4	0	26.8	34.42
9	26.83	34.399	4.92	8.27	2.315	0.04	0	0.00	0.3	10	26.83	34.40
28	26.87	34.398	4.57	8.28	2.308	0.13	0	0.00	0.7	30	26.87	34.40
46	26.85	34.406	4.60	8.28	2.302	0.11	0	0.00	0.3	50	26.84	34.41
69	26.00	34.766	4.61	8.26	2.339	0.10	0	0.00	0.5	75	25.43	34.78
92	20.88	34.799	4.21	8.22	2.335	0.32	0	0.00	3.0	100	18.00	34.80
139	12.64	34.645	1.22	7.87	2.356	2.08	23	0.00	28.1	150	12.20	34.65
185	11.20	34.723	0.35	7.76	2.337	2.62	31	0.00	34.3	200	10.90	34.72
284	9.84	34.696	0.54	7.79	2.343	2.61	33	0.00	35.5	300	9.69	34.69
372	9.10	34.662	0.75	7.79	2.364	2.66	36	0.00	36.3	400	8.91	34.65
466	8.39	34.637	0.73	7.79	2.358	2.76	42	0.00	36.9	500	8.16	34.62
560	7.65	34.589	0.58	7.76	2.377	2.91	51	0.00	39.1	600	7.24	34.58
655	6.68	34.563	0.50	7.73	2.381	3.22	62	0.00	42.4	700	6.33	34.56
749	5.97	34.552	0.63	7.74	2.397	3.20	71	0.00	43.6	800	5.65	34.55
943	4.98	34.560	0.82	7.76	2.419	3.24	98	0.00	44.6	1000	4.70	34.56
877	5.25	34.552	0.78	7.73	2.400	3.20	80	0.00	44.3	1200	3.91	34.61
1070	4.38	34.565	0.97	7.73	2.420	3.28	100	0.00	44.5	1500	3.10	34.63
1358	3.43	34.630	1.48	7.78	2.446	3.06	121	0.05	43.2	2000	2.78	34.65
1845	2.49	34.634	2.08	7.83	2.452	3.02	144	0.00	41.2	2500	1.89	34.67
2325	1.98	34.660	2.42	7.86	2.461	2.85	157	0.00	39.8	3000	1.72	34.68
2811	1.79	34.674	2.68	7.87	2.459	2.84	161	0.00	38.9	3250	1.62	34.68
3052	1.70	34.676	2.83	7.88	2.477	2.82	161	0.00	38.9	3500	1.55	34.69
3291	1.60	34.689	3.05	7.89	2.477	2.62	161	0.00	38.1	3750	1.47	34.69
3530	1.54	34.683	3.23	7.91	2.474	2.60	159	0.00	37.4	4000	1.39	34.69
3769	1.46	34.691	3.46	7.92	2.480	2.65	154	0.00	37.0	4500	1.37	34.70
4246	1.35	34.695	3.85	7.93	2.446	2.46	144	0.00	35.6	5000	1.43	34.70
4727	1.41	34.698	3.89	7.91	2.437	2.43	143	0.00	35.2			
5215	1.45	34.699	3.98	7.90	2.437	2.47	140	0.00	35.2			

KH-71-5 Latitude 05°00.8'N Dec. 5, 1971 Depth 5,050 meters Air Temperature 26.4°C
 Station 6 Longitude 145°57.2'W 1035-1518

Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	26.1	34.943	4.62	8.22	2.349	0.35	0	0.05	2.8	0	26.1	34.94
10	26.08	34.933	4.62	8.23	2.354	0.35	0	0.03	2.2	10	26.08	34.93
28	26.04	34.928	4.62	8.23	2.323	0.33	0	0.04	2.2	30	26.04	34.93
47	26.00	34.930	4.60	8.23	2.320	0.31	0	0.05	2.1	50	25.98	34.93
70	25.71	34.940	4.57	8.20	2.347	0.41	0	0.08	2.8	75	25.63	34.94
93	25.24	34.949	4.57	8.20	2.350	0.48	0	0.15	3.9	100	25.11	34.95
140	24.68	34.964	4.52	8.19	2.330	0.56	0	0.30	5.3	150	24.40	34.95
186	14.63	34.646	1.78	7.97	2.320	1.81	16	0.00	22.7	200	13.00	34.65
280	9.80	34.679	1.44	7.88	2.340	2.40	30	0.00	31.8	300	9.57	34.68
374	9.19	34.668	1.02	7.84	2.339	2.60	34	0.00	35.2	400	9.01	34.66
469	8.36	34.630	0.81	7.79	2.356	2.91	42	0.00	38.2	500	8.07	34.62
563	7.50	34.593	0.78	7.80	2.361	2.99	49	0.00	39.6	600	7.21	34.58
658	6.76	34.569	0.68	7.75	2.370	3.18	58	0.00	42.0	700	6.45	34.56
753	5.95	34.553	1.07	7.79	2.369	3.14	63	0.00	42.1	800	5.65	34.55
946	4.93	34.554	1.30	7.80	2.402	3.18	81	0.00	43.0	1000	4.71	34.56
1240	3.80	34.581	1.43	7.87	2.398	3.28	111	0.00	43.0	1200	3.95	34.58
1433	3.21	34.596	1.75	7.86	2.439	3.19	125	0.00	41.6	1500	3.03	34.60
1724	2.61	34.623	2.08	7.84	2.463	3.07	140	0.00	40.9	2000	2.24	34.64
2204	2.03	34.651	2.51	7.90	2.472	2.92	156	0.00	40.0	2500	1.90	34.66
2688	1.83	34.665	2.71	7.92	2.487	2.84	160	0.00	39.0	3000	1.69	34.67
3169	1.58	34.679	3.11	7.93	2.479	2.74	164	0.00	37.7	3250	1.55	34.68
3410	1.49	34.683	3.41	7.96	2.466	2.78	156	0.00	37.2	3500	1.48	34.68
3653	1.47	34.686	3.58	7.91	2.462	2.66	154	0.00	36.8	3750	1.45	34.69
3894	1.43	34.693	3.67	7.96	2.480	2.59	151	0.00	35.8	4000	1.40	34.69
4134	1.38	34.693	3.79	7.96	2.484	2.58	149	0.00	36.0	4500	1.39	34.69
4613	1.39	34.694	3.89	7.92	2.461	2.54	144	0.00	35.4	5000	1.44	34.70
5092	1.45	34.696	3.92	7.93	2.449	2.66	144	0.00	35.2			

KH-71-5 Station 7		Latitude 02°34.2'N Longitude 146°00.3'W		Dec. 6, 1971 0310-0743		Depth 4,550 meters		Air Temperature 22.6°C					
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated			
										Depth	Water Temp.	Salinity	
0	24.5	35.064	4.54	8.17	2.361	0.61	2	0.39	6.8	0	24.5	35.06	
9	24.36	35.038	4.45	8.15	2.361	0.67	2	0.38	6.6	10	24.36	35.04	
27	24.35	35.038	4.45	8.19	2.354	0.62	2	0.38	6.7	30	24.35	35.04	
45	24.33	35.038	4.50	8.19	2.352	0.63	2	0.38	6.8	50	24.33	35.04	
68	24.34	35.040	4.44	8.18	2.361	0.66	3	0.39	6.7	75	24.36	35.05	
89	24.39	35.081	4.51	8.18	2.368	0.66	3	0.36	6.7	100	24.36	35.08	
134	23.96	35.078	4.23	8.17	2.361	0.69	3	0.65	7.3	150	19.60	34.90	
178	12.96	34.723	2.03	8.02	2.335	1.84	22	0.00	24.4	200	12.55	34.72	
268	11.22	34.796	1.25	7.96	2.335	2.22	28	0.00	31.3	300	10.90	34.79	
358	10.44	34.752	1.40	7.97	2.335	2.21	29	0.00	31.6	400	10.10	34.73	
449	9.65	34.695	1.47	7.97	2.335	2.38	30	0.00	32.4	500	8.80	34.66	
540	8.15	34.625	0.61	7.87	2.359	2.89	46	0.00	38.4	600	7.50	34.61	
633	7.24	34.591	0.66	7.83	2.359	3.09	53	0.00	40.8	700	6.60	34.57	
727	6.33	34.563	1.21	7.87	2.358	3.15	59	0.00	39.8	800	5.63	34.55	
918	4.87	34.553	1.87	7.96	2.383	2.98	80	0.00	39.4	1000	4.50	34.56	
1210	3.79	34.582	1.89	7.89	2.423	3.07	107	0.00	40.8	1200	3.82	34.58	
1394	3.24	34.600	1.91	7.93	2.427	3.10	123	0.00	41.1	1500	3.01	34.61	
1678	2.71	34.626	2.08	7.98	2.447	2.94	138	0.00	41.0	2000	2.29	34.65	
2151	2.13	34.653	2.43	7.95	2.447	2.88	153	0.00	39.8	2500	1.87	34.67	
2625	1.80	34.671	2.79	7.95	2.456	2.76	158	0.00	38.5	3000	1.62	34.68	
3102	1.63	34.680	3.10	7.96	2.456	2.74	159	0.00	37.2	3250	1.54	34.68	
3339	1.51	34.687	3.36	8.04	2.470	2.65	157	0.00	36.8	3500	1.48	34.69	
3577	1.46	34.688	3.55	8.04	2.470	2.61	157	0.00	36.6	3750	1.45	34.70	
3814	1.44	34.702	3.60	8.00	2.456	2.57	153	0.00	36.0	4000	1.40	34.70	
4053	1.39	34.697	3.73	7.99	2.466	2.60	151	0.00	36.0	4500	1.39	34.70	
4530	1.39	34.697	-	-	-	2.39	143	-	31.7				

KH-71-5 Station 8		Latitude 00°04.0'S Longitude 146°00.0'W		Dec. 7, 1971 1245-1745		Depth 4,230 meters		Air Temperature 22.6°C				
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (ugat/l)	SiO ₂ -Si (ugat/l)	NO ₂ -N (ugat/l)	NO ₃ -N (ugat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	24.2	35.251	4.52	8.13	2.373	0.67	2	0.31	8.2	0	24.2	35.25
9	24.43	35.248	4.53	8.15	2.370	0.75	4	0.31	7.6	10	24.43	35.25
27	24.34	35.249	4.45	8.16	2.352	0.70	4	0.30	7.7	30	24.33	35.25
45	24.30	35.255	4.39	8.16	2.356	0.67	5	0.32	7.9	50	24.30	35.26
67	24.28	35.258	4.33	8.17	2.368	0.77	4	0.32	7.8	75	24.27	35.26
88	24.25	35.270	4.27	8.16	2.357	0.71	2	0.30	8.0	100	24.16	35.29
131	23.58	35.381	3.93	8.16	2.359	0.65	4	0.23	9.2	150	20.75	35.38
174	17.01	35.167	3.01	8.11	2.352	1.19	9	0.00	14.9	200	15.00	35.12
255	12.26	34.863	2.72	8.04	2.336	1.63	22	0.00	22.6	300	11.70	34.84
335	11.33	34.821	1.75	7.94	2.337	2.02	23	0.00	28.3	400	9.47	34.74
413	9.18	34.690	0.64	7.81	2.353	2.70	35	0.00	37.4	500	8.47	34.65
497	8.48	34.651	0.84	7.81	2.373	2.70	37	0.00	38.7	600	7.17	34.59
584	7.26	34.596	1.18	7.81	2.365	2.82	47	0.00	39.7	700	6.46	34.57
673	6.64	34.574	1.38	7.83	2.365	2.82	56	0.00	39.7	800	5.76	34.55
857	5.39	34.552	1.90	7.86	2.393	2.86	69	0.00	39.9	1000	4.74	34.55
976	4.84	34.550	2.02	7.88	2.398	2.90	77	0.00	39.6	1200	3.95	34.57
1162	4.08	34.567	2.00	7.86	2.420	3.07	99	0.00	40.3	1500	3.01	34.60
1442	3.15	34.600	2.09	7.88	2.436	2.76	101	0.00	38.8	2000	2.21	34.64
1903	2.32	34.639	2.49	7.91	2.478	2.85	141	0.00	39.7	2500	1.86	34.66
2360	1.92	34.660	2.76	7.91	2.479	2.85	150	0.00	38.8	3000	1.68	34.68
2810	1.73	34.675	3.07	7.93	2.467	2.66	154	0.00	37.0	3250	1.61	34.68
3056	1.66	34.676	3.22	7.93	2.469	2.70	154	0.00	36.8	3500	1.51	34.69
3287	1.60	34.680	3.36	7.96	2.460	2.72	151	0.00	37.2	3750	1.43	34.69
3519	1.50	34.687	3.49	7.95	2.469	2.54	152	0.00	37.0	4000	1.40	34.70
3753	1.43	34.694	3.66	7.96	2.487	2.61	152	0.00	36.4			
4228	1.39	34.696	3.78	7.96	2.452	2.56	149	0.00	36.0			

KH-71-5 Station 9		Latitude 02°29.1'S Longitude 146°01.0'W		Dec. 8, 1971 1400-1825		Depth 4,710 meters		Air Temperature 25.6°C				
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	25.2	35.376	4.74	8.18	2.386	0.65	2	0.22	6.7	0	25.2	35.38
9	25.33	35.374	4.74	8.19	2.396	0.68	3	0.22	6.8	10	25.33	35.37
28	25.31	35.383	4.76	8.17	2.399	0.67	4	0.23	6.7	30	25.32	35.38
47	25.38	35.386	4.77	8.18	2.391	0.68	4	0.21	6.8	50	25.37	35.39
70	25.28	35.388	4.74	8.18	2.364	0.68	2	0.20	6.7	75	25.25	35.38
93	25.09	35.329	4.72	8.18	2.370	0.67	5	0.24	6.9	100	25.00	35.31
140	21.10	35.887	3.79	8.17	2.417	0.68	3	0.14	6.3	150	17.80	35.75
188	13.11	34.943	1.04	7.85	2.344	2.32	24	0.00	31.8	200	12.82	34.92
282	11.58	34.857	1.34	7.90	2.350	2.20	26	0.00	30.1	300	11.37	34.85
377	10.42	34.777	1.96	7.94	2.354	2.10	27	0.00	29.0	400	10.15	34.76
472	8.96	34.690	1.33	7.80	2.351	2.66	38	0.00	37.5	500	8.53	34.67
567	7.63	34.621	0.79	7.82	2.351	2.90	46	0.00	40.7	600	7.25	34.60
663	6.64	34.579	1.24	7.83	2.360	2.99	54	0.00	40.8	700	6.36	34.57
758	5.91	34.555	1.66	7.86	2.375	2.86	59	0.00	40.0	800	5.66	34.55
951	4.80	34.550	1.95	7.87	2.383	2.88	79	0.00	39.8	1000	4.57	34.55
885	4.96	34.549	1.98	7.87	2.385	2.94	77	0.00	39.9	1200	3.50	34.57
1076	4.24	34.562	2.02	7.87	2.422	3.02	95	0.00	40.1	1500	2.97	34.61
1363	3.34	34.592	2.18	7.89	2.425	2.92	114	0.00	40.5	2000	2.24	34.65
1842	2.40	34.640	2.36	7.93	2.454	2.88	147	0.00	40.1	2500	1.90	34.66
2323	2.00	34.658	2.83	7.94	2.481	2.67	152	0.00	38.9	3000	1.64	34.68
2804	1.75	34.672	3.10	7.93	2.464	2.66	153	0.00	38.1	3250	1.59	34.68
3044	1.61	34.679	3.33	7.94	2.482	2.68	152	0.00	37.5	3500	1.52	34.69
3282	1.58	34.682	3.39	7.93	2.482	2.63	154	0.00	37.2	3750	1.43	34.69
3519	1.51	34.692	3.50	7.97	2.480	2.54	154	0.00	36.8	4000	1.41	34.70
3754	1.43	34.693	3.67	7.97	2.485	2.55	154	0.00	36.2	4500	1.38	34.70
4228	1.39	34.698	3.96	7.97	2.464	2.53	147	0.00	35.7			
4702	1.37	34.702	4.20	7.98	2.454	2.37	138	0.00	34.4			

KH-71-5 Station 10		Latitude 04°58.1'S Longitude 146°03.4'W		Dec. 9, 1971 1100-1530		Depth 4,960 meters		Air Temperature 25.7°C				
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	25.3	35.405	4.77	8.17	2.360	0.67	1	0.14	7.1	0	25.3	35.40
10	25.49	35.400	4.80	8.16	2.368	0.68	2	0.13	7.2	10	25.49	35.40
29	25.34	35.398	4.75	8.15	2.375	0.69	2	0.14	7.0	30	25.34	35.40
48	25.34	35.396	4.85	8.16	2.368	0.66	3	0.15	7.0	50	25.34	35.40
72	25.31	35.394	4.76	8.17	2.385	0.66	3	0.15	7.2	75	25.31	35.39
96	25.30	35.393	4.77	8.16	2.365	0.68	1	0.15	7.0	100	25.30	35.39
143	24.94	35.336	4.72	8.15	2.368	0.71	4	0.22	7.0	150	24.60	35.34
191	17.71	35.385	3.24	8.09	2.378	1.06	1	0.10	11.5	200	16.65	35.37
287	10.88	34.819	0.98	7.84	2.355	2.37	26	0.00	32.0	300	10.40	34.79
381	9.62	34.727	1.95	7.90	2.354	2.23	26	0.00	30.8	400	9.40	34.71
476	8.44	34.648	2.53	7.92	2.345	2.18	28	0.00	29.9	500	8.12	34.63
570	7.34	34.588	2.60	7.90	2.345	2.38	34	0.00	32.8	600	7.02	34.58
665	6.41	34.564	1.63	7.81	2.345	2.80	48	0.00	38.8	700	6.14	34.55
759	5.70	34.547	2.08	7.85	2.364	2.76	56	0.00	36.4	800	5.50	34.55
947	4.81	34.560	2.22	7.84	2.393	2.84	73	0.00	37.8	1000	4.47	34.56
1150	3.74	34.570	2.35	7.84	2.437	2.91	97	0.00	39.5	1200	3.59	34.58
1340	3.29	34.591	2.39	7.88	2.434	2.90	109	0.00	38.7	1500	2.95	34.61
1627	2.73	34.626	2.54	7.89	2.452	2.84	121	0.00	38.8	2000	2.33	34.64
2103	2.25	34.644	2.81	7.89	2.472	2.76	137	0.00	38.6	2500	1.93	34.66
2585	1.87	34.669	3.06	7.88	2.472	2.68	144	0.00	37.8	3000	1.70	34.68
3067	1.68	34.682	3.40	7.93	2.472	2.59	146	0.00	36.3	3250	1.61	34.68
3305	1.58	34.685	3.52	7.93	2.472	2.65	144	0.00	36.0	3500	1.54	34.69
3543	1.53	34.687	3.69	7.92	2.472	2.56	145	0.00	35.8	3750	1.48	34.69
3777	1.47	34.692	3.79	7.92	2.472	2.50	142	0.00	35.3	4000	1.41	34.70
4015	1.41	34.697	3.97	7.93	2.465	2.52	137	0.00	35.3	4500	1.33	34.70
4490	1.33	34.704	4.27	7.93	2.439	2.43	130	0.00	34.1			
4962	1.38	34.707	4.33	7.93	2.439	2.39	129	0.00	34.0			

KH-71-5 Station 11		Latitude 07°59.3'S Longitude 146°00.1'W		Dec. 10, 1971 0500-0925		Depth 5,030 meters		Air Temperature 26.2°C				
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	26.2	35.533	4.72	8.18	2.401	0.55	0	0.20	5.0	0	26.2	35.53
10	26.28	35.540	4.72	8.17	2.387	0.54	0	0.18	4.9	10	26.28	35.54
29	26.25	35.545	4.69	8.17	2.404	0.56	0	0.20	4.9	30	26.25	35.55
48	26.25	35.544	4.68	8.20	2.391	0.57	0	0.18	4.9	50	26.25	35.55
71	26.28	35.548	4.72	8.21	2.383	0.54	1	0.17	4.7	75	26.28	35.55
95	26.29	35.540	4.70	8.21	2.383	0.55	1	0.18	5.0	100	26.27	35.54
142	25.18	35.902	4.01	8.18	2.417	0.67	0	0.27	6.3	150	24.80	35.95
190	21.02	35.904	3.86	8.16	2.417	0.61	0	0.02	5.6	200	19.65	35.68
283	11.80	34.800	1.14	7.89	-	2.31	17	0.00	26.3	300	11.20	34.78
377	9.55	34.715	1.65	7.89	2.347	2.35	24	0.01	32.0	400	9.17	34.70
471	8.36	34.647	1.79	7.91	2.351	2.50	31	0.02	34.0	500	8.12	34.63
566	7.50	34.603	1.60	7.81	2.357	2.66	38	0.02	37.4	600	7.17	34.59
663	6.52	34.574	1.83	7.88	2.370	2.84	46	0.01	38.5	700	6.22	34.56
759	5.78	34.537	2.05	7.86	2.375	2.76	53	0.01	38.7	800	5.40	34.53
947	4.51	34.545	2.47	7.89	2.402	2.82	73	0.01	38.8	1000	4.28	34.55
1130	3.85	34.555	2.54	7.92	2.402	2.80	89	0.00	39.2	1200	3.68	34.57
1264	3.53	34.577	2.54	7.88	2.438	2.89	96	0.00	38.7	1500	2.95	34.60
1455	3.03	34.595	2.70	7.88	2.419	2.82	108	0.00	39.0	2000	2.24	34.64
1741	2.55	34.622	2.86	7.90	2.438	2.76	121	0.06	38.2	2500	1.90	34.67
2221	2.04	34.652	3.15	7.95	2.455	2.68	135	0.03	37.6	3000	1.70	34.68
2697	1.80	34.676	3.20	7.92	2.478	2.60	144	0.01	37.6	3250	1.61	34.69
3177	1.63	34.685	3.55	7.96	2.461	2.62	142	0.00	36.4	3500	1.55	34.69
3418	1.56	34.690	3.59	7.94	2.461	2.57	142	0.00	36.2	3750	1.48	34.69
3656	1.51	34.695	3.82	7.95	2.461	2.46	139	0.00	35.7	4000	1.41	34.70
3894	1.45	34.695	3.93	7.95	2.459	2.53	136	0.00	35.3	4500	1.33	34.70
4133	1.38	34.701	4.21	7.94	2.444	2.46	131	0.00	34.3	5000	1.37	34.71
4605	1.32	34.704	4.37	7.93	2.444	2.40	130	0.00	34.1			
5075	1.38	34.705	4.46	7.93	2.431	2.36	128	0.00	33.9			

KH-71-5 Station 12		Latitude 11°03.5'S Longitude 146°03.3'W		Dec. 11, 1971 1805-2240		Depth 4,760 meters		Air Temperature 25.8°C				
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	27.4	35.721	4.72	8.25	2.416	0.37	0	0.00	1.9	0	27.4	35.72
10	27.30	35.775	4.73	8.23	2.422	0.37	1	0.00	1.8	10	27.30	35.78
29	27.23	35.785	4.73	8.25	2.416	0.38	1	0.00	1.8	30	27.22	35.79
48	27.13	35.832	4.80	8.25	2.421	0.36	1	0.00	1.6	50	27.13	35.84
71	27.15	35.927	4.73	8.25	2.434	0.35	1	0.00	1.4	75	27.05	35.93
94	25.84	35.863	4.27	8.20	2.417	0.58	1	0.68	4.4	100	25.60	35.87
142	24.12	36.371	4.05	8.20	2.449	0.47	1	1.04	2.4	150	23.85	36.42
189	22.52	36.219	3.86	8.19	2.443	0.45	1	0.01	3.8	200	22.00	36.06
283	15.93	35.175	3.02	8.06	2.377	1.22	5	0.00	13.1	300	14.72	35.04
377	10.08	34.683	1.83	7.88	2.342	2.22	21	0.00	28.6	400	9.45	34.66
471	8.22	34.623	2.12	7.87	2.351	2.34	31	0.01	32.6	500	7.87	34.61
566	7.22	34.577	2.17	7.86	2.359	2.51	36	0.00	34.9	600	6.83	34.56
661	6.35	34.549	2.04	7.84	2.369	2.67	47	0.00	37.8	700	6.15	34.54
755	5.85	34.535	2.10	7.84	2.369	2.72	54	0.00	38.4	800	5.53	34.53
945	4.56	34.535	2.49	7.85	2.382	2.82	70	0.00	38.7	1000	4.35	34.53
985	4.38	34.532	2.54	7.83	2.397	2.82	75	0.00	38.5	1200	3.59	34.56
1135	3.77	34.553	2.65	7.85	-	2.82	84	0.00	38.2	1500	2.93	34.59
1445	3.05	34.586	2.88	7.88	2.416	2.72	105	0.00	37.7	2000	2.21	34.64
1905	2.30	34.633	3.20	7.89	2.439	2.66	123	0.00	37.3	2500	1.87	34.67
2368	1.91	34.665	3.36	7.88	2.439	2.60	136	0.00	37.0	3000	1.68	34.68
2840	1.73	34.679	3.50	7.92	2.455	2.58	141	0.00	36.6	3250	1.61	34.69
3074	1.66	34.682	3.63	7.93	2.443	2.60	140	0.00	36.4	3500	1.55	34.69
3308	1.59	34.687	3.71	7.90	2.450	2.52	141	0.00	36.0	3750	1.49	34.69
3541	1.54	34.691	3.80	7.92	2.462	2.55	140	0.00	35.7	4000	1.43	34.70
3774	1.48	34.694	3.90	7.91	2.446	2.49	139	0.01	35.5	4500	1.36	34.70
4245	1.37	34.700	4.20	7.93	2.445	2.58	134	0.00	34.4			
4716	1.36	34.706	4.33	7.91	2.436	2.43	128	0.00	34.0			

KH-71-5 Station 13		Latitude 14°01.7'S Longitude 148°29.8'W		Dec. 12-13, 1971 2140-0210		Depth 4,290 meters		Air Temperature 26.7°C				
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	27.4	36.036	4.64	8.25	2.402	0.33	0	0.00	0.9	0	27.4	36.04
10	27.41	36.028	4.67	8.26	2.431	0.31	0	0.00	0.9	10	27.41	36.03
29	27.44	36.080	4.75	8.26	2.431	0.30	0	0.00	2.0	30	27.44	36.08
48	26.56	36.212	4.86	8.27	2.440	0.27	0	0.00	1.6	50	26.53	36.22
72	26.02	36.251	4.74	8.25	2.445	0.29	0	0.00	1.1	75	25.98	36.26
95	25.70	36.283	4.58	8.26	2.446	0.34	0	0.02	1.8	100	25.64	36.29
143	25.05	36.347	4.33	8.24	2.448	0.31	0	0.25	0.7	150	24.87	36.35
191	23.34	36.300	4.19	8.23	2.436	0.35	0	0.97	1.3	200	22.95	36.27
285	18.65	35.497	4.04	8.19	2.389	0.86	1	0.00	6.0	300	17.80	35.37
379	13.00	34.784	2.91	8.05	2.345	1.54	5	0.02	17.4	400	11.95	34.70
472	8.81	34.546	2.18	7.92	2.339	2.38	19	0.02	29.0	500	8.00	34.53
566	6.89	34.505	2.75	7.94	2.358	2.52	30	0.00	32.7	600	6.50	34.50
660	6.00	34.492	3.04	7.95	2.368	2.48	39	0.00	33.2	700	5.76	34.49
754	5.47	34.487	3.12	7.95	2.375	2.43	46	0.00	34.0	800	5.25	34.49
947	4.50	34.511	3.00	7.94	2.387	2.73	63	0.03	36.1	1000	4.28	34.52
963	4.41	34.510	2.96	7.93	2.378	2.74	66	0.00	35.9	1200	3.54	34.55
1153	3.66	34.541	3.06	7.93	2.378	2.74	79	0.00	36.2	1500	2.80	34.58
1438	2.95	34.577	3.10	7.93	2.414	2.72	97	0.02	36.8	2000	2.16	34.64
1911	2.21	34.628	3.45	7.96	2.434	2.66	115	0.00	36.1	2500	1.87	34.66
2388	1.91	34.659	3.38	7.95	2.446	2.68	129	0.00	36.2	3000	1.75	34.67
2866	1.79	34.669	3.46	7.93	2.454	2.73	134	0.00	36.5	3250	1.65	34.68
3103	1.70	34.675	4.17	7.95	2.452	2.69	135	0.00	37.5	3500	1.61	34.68
3342	1.64	34.679	3.77	7.95	2.470	2.65	135	0.00	35.9	3750	1.51	34.69
3579	1.59	34.684	3.83	7.94	2.440	2.60	134	0.00	35.6	4000	1.43	34.69
3816	1.47	34.689	4.00	7.96	2.443	2.55	130	0.00	35.1			
4292	1.37	34.699	4.32	7.95	2.437	2.54	127	0.00	34.2			

KH-71-5		Latitude 17°02.8'S		Dec. 13, 1971		Depth 4,140 meters		Air Temperature 24.5°C				
Station 14		Longitude 148°25.0'W		1450-1855								
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	27.2	36.035	4.61	8.27	2.430	0.29	0	0.00	0.8	0	27.2	36.04
9	27.52	36.134	4.61	8.28	2.432	0.24	0	0.00	0.5	10	27.53	36.14
27	27.59	36.228	5.19	8.27	2.434	0.27	0	0.00	0.3	30	27.55	36.24
45	26.49	36.266	4.78	8.28	2.438	0.24	0	0.00	0.4	50	26.22	36.27
68	25.68	36.279	4.76	8.28	2.440	0.20	0	0.00	0.5	75	25.56	36.28
90	25.31	36.262	4.72	8.28	2.438	0.21	0	0.00	0.5	100	25.17	36.25
135	24.64	36.194	4.68	8.28	2.434	0.18	0	0.00	0.4	150	24.37	36.21
181	23.70	36.258	4.16	8.23	2.439	0.37	0	0.35	2.1	200	23.18	36.20
273	19.44	35.638	4.17	8.21	2.393	0.50	0	0.00	4.6	300	17.83	35.44
366	14.04	34.956	4.80	8.13	2.364	1.09	4	0.00	12.9	400	12.10	34.73
458	9.43	34.571	3.17	8.00	2.350	1.92	14	0.00	23.6	500	8.38	34.51
550	7.32	34.471	3.22	7.96	2.352	2.21	23	0.00	29.2	600	6.66	34.46
640	6.21	34.451	3.36	7.95	2.360	2.29	31	0.00	31.6	700	5.75	34.45
731	5.50	34.456	3.42	7.95	2.349	2.38	42	0.00	32.5	800	5.02	34.47
913	4.37	34.494	3.31	7.96	2.375	2.57	63	0.00	34.6	1000	4.03	34.51
1096	3.69	34.525	3.34	7.97	2.401	2.66	77	0.00	35.2	1200	3.37	34.54
1286	3.18	34.552	3.35	7.95	2.410	2.66	89	0.00	35.3	1500	2.77	34.58
1474	2.81	34.579	3.37	7.95	2.380	2.68	99	0.00	35.4	2000	2.18	34.63
1759	2.43	34.609	3.46	7.95	2.417	2.67	109	0.00	35.6	2500	1.87	34.66
2232	2.01	34.645	3.56	7.95	2.432	2.60	123	0.00	35.5	3000	1.68	34.68
2709	1.79	34.667	3.61	7.93	2.433	2.60	129	0.00	35.8	3250	1.57	34.68
3186	1.60	34.681	3.88	7.94	2.433	2.55	130	0.00	35.1	3500	1.47	34.69
3424	1.49	34.690	4.03	7.95	2.430	2.57	130	0.00	34.5	3750	1.45	34.69
3661	1.45	-	-	-	-	-	-	-	-	4000	1.47	34.70
3897	1.45	34.695	4.17	7.94	2.420	2.45	128	0.00	34.1			
4130	1.49	34.696	4.18	7.94	2.429	2.43	127	0.00	34.2			

KH-71-5 Station 15		Latitude 20°24.2'S Longitude 147°59.5'W		Dec. 19, 1971 1500-1908		Depth 4,620 meters		Air Temperature 25.0°C				
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	25.8	35.909	4.74	8.26	2.412	0.15	0	0.00	0.0	0	25.8	35.91
10	25.82	35.910	4.70	8.27	2.417	0.13	0	0.00	0.0	10	25.82	35.91
29	25.86	35.912	4.70	8.25	2.419	0.13	0	0.00	0.1	30	25.86	35.91
48	25.88	35.933	4.72	8.26	2.425	0.15	0	0.00	0.0	50	25.88	35.94
71	25.66	36.176	4.79	8.26	2.425	0.14	0	0.00	0.0	75	25.50	36.17
95	24.04	35.836	4.96	8.28	2.426	0.15	0	0.00	0.0	100	23.95	35.84
143	23.61	36.011	4.80	8.26	2.433	0.14	1	0.00	0.0	150	23.47	36.01
190	21.65	35.935	4.33	8.23	2.426	0.27	1	0.13	1.3	200	21.34	35.90
284	18.52	35.495	4.39	8.24	2.395	0.41	1	0.00	3.3	300	17.77	35.38
378	13.74	34.911	4.29	8.15	2.357	0.86	3	0.00	9.9	400	12.75	34.82
472	9.59	34.535	4.05	8.06	2.354	1.61	9	0.00	20.4	500	8.80	34.49
566	7.33	34.411	4.07	8.00	2.340	1.99	14	0.01	25.9	600	6.67	34.38
662	5.93	34.364	4.19	8.00	2.349	2.19	21	0.00	29.3	700	5.65	34.39
-	-	-	-	-	-	-	-	-	-	800	5.15	34.41
950	4.37	34.447	3.52	7.94	2.380	2.63	55	0.00	34.2	1000	4.05	34.47
820	5.06	34.403	3.71	7.93	2.371	2.44	39	0.00	32.7	1200	3.27	34.53
1011	3.97	34.471	3.48	7.93	2.385	2.59	64	0.00	34.8	1500	2.66	34.58
1298	3.02	34.547	3.62	7.94	2.406	2.63	89	0.04	35.2	2000	2.16	34.63
1772	2.34	34.612	3.51	7.95	2.425	2.66	112	0.00	35.9	2500	1.92	34.65
2246	2.02	34.643	3.57	7.93	2.445	2.65	123	0.00	35.9	3000	1.69	34.67
2721	1.80	34.663	3.62	7.95	2.449	2.70	131	0.02	35.8	3250	1.62	34.68
2958	1.70	34.673	3.76	7.94	2.451	2.69	131	0.01	35.4	3500	1.56	34.69
3194	1.65	34.677	3.84	7.93	2.449	2.65	131	0.00	35.0	3750	1.50	34.69
3432	1.58	34.685	3.93	7.94	2.449	2.57	131	0.00	34.6	4000	1.44	34.69
3667	1.52	34.689	4.06	7.97	2.441	2.59	130	0.00	34.6	4500	1.44	34.70
4141	1.42	34.695	4.21	7.94	2.441	2.49	129	0.00	33.9			
4613	1.45	34.697	4.28	7.92	2.429	2.43	128	0.00	33.7			

KH-71-5 Station 16		Latitude 22°51.8'S Longitude 146°48.4'W	Dec. 20, 1971 0848-1435		Depth 4,750 meters	Air Temperature 24.8°C						
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	25.1	35.865	4.81	8.27	2.408	0.13	1	0.00	0.3	0	25.1	35.86
10	25.26	35.865	4.75	8.27	2.411	0.14	1	0.00	0.3	10	25.26	35.86
29	25.26	35.862	4.77	8.28	2.414	0.12	1	0.00	0.3	30	25.26	35.86
48	25.25	35.864	4.84	8.28	2.408	0.13	1	0.00	0.2	50	25.25	35.86
71	23.70	35.660	5.02	8.28	2.395	0.12	1	0.01	0.3	75	23.45	35.66
95	22.44	35.658	5.08	8.29	2.393	0.12	1	0.01	0.1	100	22.25	35.65
142	21.09	35.610	4.92	8.28	2.383	0.11	1	0.00	0.3	150	20.93	35.61
190	20.29	35.611	4.71	8.26	2.382	0.17	1	0.06	0.5	200	20.16	35.60
-	-	-	-	-	-	-	-	-	-	300	17.90*	35.40*
-	-	-	-	-	-	-	-	-	-	400	13.60*	34.85*
473	9.81	34.595	4.42	8.08	2.329	1.40	5	0.00	17.8	500	8.90	34.53
567	7.36	34.420	4.69	8.04	2.330	1.77	10	0.00	23.3	600	6.70	34.38
661	6.14	34.342	4.98	8.04	2.331	1.92	13	0.00	25.6	700	5.93	34.33
756	5.69	34.325	4.90	8.03	2.340	2.05	17	0.00	27.0	800	5.46	34.33
941	4.68	34.384	4.01	7.98	2.358	2.42	37	0.02	31.9	1000	4.37	34.41
1122	3.73	34.458	3.64	7.95	2.388	2.63	63	0.02	34.6	1200	3.41	34.49
1186	3.49	34.482	3.61	7.94	2.388	2.62	69	0.02	34.6	1500	2.69	34.57
1355	2.94	34.535	3.61	7.95	2.380	2.62	87	0.02	35.0	2000	2.20	34.64
1611	2.56	34.591	3.50	7.93	2.396	2.71	105	0.02	35.4	2500	1.89	34.66
2042	2.16	34.638	3.50	7.93	2.441	2.69	120	0.02	35.2	3000	1.71	34.68
2483	1.90	34.664	3.58	7.92	2.441	2.64	130	0.04	35.4	3250	1.62	35.68
2930	1.74	34.674	3.69	7.93	2.436	2.61	132	0.03	35.8	3500	1.56	34.69
3153	1.64	34.679	3.81	7.92	2.436	2.63	133	0.00	35.1	3750	1.51	34.69
3377	1.60	34.687	3.94	7.93	2.436	2.53	131	0.03	34.8	4000	1.47	34.70
3600	1.54	34.694	4.01	7.93	2.442	2.64	130	0.02	34.4	4500	1.44	34.70
3827	1.50	34.693	4.10	7.92	2.428	2.57	130	0.04	34.1			
4289	1.43	34.701	4.31	7.91	2.435	2.52	129	0.04	33.6			
4774	1.46	34.702	4.29	7.91	2.424	2.46	128	0.03	33.6			

* interpolated value

KH-71-5 Station 17		Latitude 25°46.0'S Longitude 145°00.7'W		Dec. 21, 1971 0745-1118		Depth 4,010 meters		Air Temperature 24.4°C				
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	23.9	35.724	4.91	8.27	2.440	0.14	1	0.01	0.3	0	23.9	35.72
9	23.89	35.724	4.90	8.28	2.398	0.09	1	0.00	0.2	10	23.89	35.72
27	23.88	35.722	4.90	8.26	2.402	0.10	1	0.00	0.2	30	23.88	35.72
45	23.36	35.687	4.95	8.28	2.400	0.10	1	0.00	0.3	50	22.65	35.67
67	21.96	35.604	4.97	8.29	2.391	0.10	1	0.00	0.2	75	21.84	35.60
89	21.57	35.596	4.99	8.28	2.393	0.09	1	0.00	0.2	100	21.35	35.61
133	20.58	35.624	4.71	8.27	2.397	0.17	1	0.02	0.6	150	20.18	35.62
177	19.51	35.588	4.51	8.25	2.393	0.25	1	0.01	2.0	200	18.95	35.57
267	17.04	35.456	4.75	8.22	2.376	0.32	2	0.00	3.4	300	16.12	35.36
356	14.30	35.144	4.62	8.19	2.366	0.62	4	0.01	7.7	400	12.75	34.96
446	11.03	34.769	4.57	8.13	2.347	1.11	6	0.01	14.5	500	9.40	34.60
537	8.46	34.523	4.81	8.08	2.343	1.44	8	0.01	19.9	600	7.27	34.43
628	6.97	34.404	5.11	8.09	2.325	1.71	11	0.00	22.9	700	6.25	34.35
720	6.07	34.344	5.22	8.05	2.333	1.87	15	0.00	25.0	800	5.52	34.33
906	4.89	34.341	4.60	7.98	2.350	2.20	29	0.01	29.7	1000	4.35	34.37
949	4.71	34.347	4.52	7.98	2.362	2.25	33	0.00	30.6	1200	3.47	34.46
1134	3.69	34.431	3.95	7.96	2.374	2.48	58	0.00	33.6	1500	2.72	34.56
1417	2.88	34.531	3.68	7.95	2.397	2.58	88	0.00	35.0	2000	2.12	34.63
1887	2.21	34.622	3.55	7.96	2.445	2.66	118	0.00	35.3	2500	1.84	34.66
2358	1.89	34.654	3.60	7.95	2.444	2.62	129	0.00	35.4	3000	1.66	34.68
2830	1.73	34.671	3.76	7.95	2.438	2.66	133	0.00	35.1	3250	1.62	34.68
3065	1.65	34.678	3.87	7.96	2.445	2.61	133	0.00	35.0	3500	1.57	34.69
3300	1.61	34.682	3.94	7.94	2.447	2.55	133	0.00	34.8	3750	1.53	34.69
3541	1.56	34.690	4.02	7.95	2.436	2.51	131	0.00	34.5	4000	1.49	34.69
3778	1.52	34.693	4.11	7.94	2.423	2.53	131	0.00	34.4			
4014	1.49	34.693	4.16	7.93	2.430	2.49	130	0.01	34.2			

KH-71-5 Station 18		Latitude 29°05.9'S Longitude 143°07.6'W	Dec. 22, 1971 0500-0840		Depth 4,360 meters	Air Temperature 20.9°C						
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	21.7	35.275	5.10	8.25	2.359	0.04	1	0.00	0.2	0	21.7	35.28
9	21.64	35.275	5.09	8.28	2.363	0.05	3	0.00	0.3	10	21.64	35.28
28	21.67	35.279	5.10	8.27	2.363	0.07	2	0.00	0.3	30	21.65	35.28
47	20.23	35.504	5.43	8.29	2.385	0.06	4	0.00	0.3	50	20.11	35.50
70	19.44	35.489	5.39	8.28	2.383	0.08	3	0.00	0.3	75	19.27	35.48
93	18.60	35.469	5.29	8.28	2.387	0.04	5	0.00	0.3	100	18.40	35.46
140	17.46	35.442	4.91	8.25	2.385	0.23	9	0.02	1.9	150	17.28	35.43
186	16.64	35.385	4.89	8.23	2.378	0.27	6	0.00	2.8	200	16.41	35.36
280	14.95	35.195	4.78	8.22	2.356	0.47	6	0.01	5.3	300	14.46	35.15
373	12.30	34.938	4.63	8.16	2.349	0.86	7	0.04	11.4	400	11.51	34.86
466	9.61	34.656	4.82	8.12	2.339	1.23	8	0.00	17.0	500	8.75	34.57
559	7.67	34.457	5.15	8.08	2.353	1.55	9	0.00	20.8	600	7.15	34.42
653	6.70	34.383	5.38	8.10	2.356	1.69	12	0.00	22.6	700	6.38	34.36
748	6.14	34.345	5.37	8.08	2.351	1.76	12	0.00	24.0	800	5.82	34.33
936	5.02	34.320	4.91	8.04	2.344	2.12	26	0.01	28.4	1000	4.68	34.33
1060	4.37	34.347	4.55	7.99	2.352	2.27	36	0.00	30.8	1200	3.67	34.41
1251	3.44	34.435	4.08	7.96	2.376	2.47	58	0.00	33.8	1500	2.72	34.54
1533	2.66	34.552	3.75	7.96	2.400	2.56	89	0.01	34.2	2000	2.11	34.64
2005	2.10	34.639	3.54	7.95	2.448	2.66	122	0.00	35.4	2500	1.85	34.67
2481	1.86	34.664	3.52	7.93	2.450	2.63	134	0.00	35.8	3000	1.67	34.68
2952	1.69	34.679	3.71	7.94	2.443	2.61	136	0.02	35.6	3250	1.59	34.68
3188	1.61	34.681	3.85	7.94	2.449	2.61	134	0.00	34.6	3500	1.53	34.69
3422	1.56	34.687	3.96	7.95	2.429	2.54	134	0.00	34.2	3750	1.45	34.69
3648	1.48	34.694	4.12	7.95	2.433	2.52	131	0.00	34.0	4000	1.40	34.70
3883	1.41	34.699	4.24	7.95	2.429	2.51	130	0.04	33.7			
4358	1.37	34.704	4.38	7.94	2.433	2.39	127	0.03	33.2			

KH-71-5 Station 19		Latitude 32°02.8'S Longitude 141°06.5'W		Dec. 23, 1971 0140-0544		Depth 4,650 meters		Air Temperature 19.4°C				
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	19.1	35.049	5.32	8.24	2.347	0.10	1	0.02	0.1	0	19.1	35.05
9	19.17	35.047	5.31	8.24	2.363	0.13	1	0.00	0.2	10	19.17	35.05
28	18.77	35.071	5.41	8.25	2.352	0.14	1	0.01	0.1	30	18.50	35.08
47	16.73	35.239	5.72	8.26	2.367	0.17	1	0.00	0.2	50	16.56	35.24
71	15.70	35.188	5.67	8.26	2.368	0.15	1	0.00	0.1	75	15.57	35.19
94	15.32	35.189	5.52	8.24	2.360	0.18	1	0.03	0.5	100	14.99	35.18
141	14.32	35.055	5.43	8.25	2.352	0.30	2	0.19	1.9	150	14.23	35.05
188	13.77	35.046	4.98	8.21	2.359	0.53	2	0.02	5.7	200	13.55	35.03
283	10.98	34.784	4.68	8.15	2.346	1.06	4	0.01	13.4	300	10.35	34.73
377	8.42	34.517	5.02	8.11	2.341	1.43	6	0.01	19.1	400	8.03	34.49
472	7.29	34.442	5.42	8.12	2.341	1.53	8	0.01	20.8	500	7.14	34.43
566	6.80	34.390	5.48	8.11	2.342	1.65	9	0.00	22.0	600	6.59	34.38
660	6.30	34.356	5.43	8.09	2.341	1.78	11	0.01	23.7	700	6.14	34.35
754	5.94	34.332	5.37	8.10	2.345	1.91	13	0.00	24.7	800	5.74	34.33
943	4.90	34.325	4.87	8.06	2.374	2.16	24	0.00	28.4	1000	4.50	34.34
897	5.08	34.322	5.02	8.05	2.372	2.13	22	0.00	28.0	1200	3.48	34.42
1086	3.99	34.363	4.44	8.01	2.351	2.37	40	0.00	31.6	1500	2.68	34.55
1371	2.92	34.496	3.95	7.98	2.378	2.58	69	0.01	34.1	2000	2.11	34.64
1845	2.25	34.621	3.58	7.98	2.438	2.63	107	0.00	35.1	2500	1.83	34.67
2319	1.92	34.658	3.58	7.97	2.428	2.64	125	0.02	35.4	3000	1.65	34.68
2791	1.72	34.675	3.72	7.96	2.429	2.70	130	0.00	35.0	3250	1.60	34.68
3026	1.64	34.680	3.81	7.97	2.454	2.60	130	0.00	34.9	3500	1.52	34.69
3258	1.60	34.685	3.90	7.97	2.440	2.59	130	0.00	34.7	3750	1.43	34.70
3490	1.52	34.692	4.02	7.97	2.442	2.58	130	0.01	34.3	4000	1.35	34.71
3720	1.44	34.702	4.17	7.97	2.432	2.59	128	0.01	34.0	4500	1.31	34.71
4193	1.30	34.708	4.43	7.97	2.433	2.49	126	0.00	33.0			
4649	1.32	34.711	4.49	7.96	2.433	2.41	124	0.01	32.9			

KH-71-5 Station 20		Latitude 35°04.5'S Longitude 138°41.5'W		Dec. 24, 1971 0537-0954		Depth 4,800 meters		Air Temperature 19.1°C				
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	18.6	35.171	5.45	8.26	2.368	0.12	0	0.01	0.2	0	18.6	35.17
9	18.60	35.169	5.43	8.26	2.355	0.12	0	0.02	0.2	10	18.59	35.17
28	18.25	35.111	5.47	8.25	2.357	0.15	0	0.03	0.3	30	18.20	35.11
46	17.15	35.188	5.71	8.27	2.354	0.13	0	0.03	0.2	50	16.72	35.18
70	15.53	35.120	5.76	8.28	2.364	0.15	0	0.02	0.2	75	15.39	35.11
92	15.03	35.083	5.73	8.28	2.348	0.18	1	0.00	0.2	100	14.88	35.08
138	14.24	35.058	5.27	8.24	2.338	0.38	1	0.16	3.0	150	14.08	35.05
184	13.55	35.012	4.97	8.21	2.344	0.57	1	0.01	6.2	200	13.17	34.98
278	10.42	34.665	4.90	8.15	2.340	1.06	2	0.04	13.7	300	9.88	34.62
370	8.40	34.499	5.08	8.12	2.328	1.37	4	0.03	19.2	400	7.96	34.48
463	7.30	34.421	5.40	8.11	2.334	1.52	6	0.02	21.2	500	7.05	34.41
556	6.73	34.379	5.59	8.11	2.338	1.61	7	0.03	22.2	600	6.52	34.37
649	6.32	34.352	5.57	8.09	2.338	1.67	9	0.02	23.2	700	6.14	34.34
743	5.99	34.329	5.47	8.09	2.336	1.74	11	0.02	24.2	800	5.75	34.32
932	5.00	34.315	5.01	8.06	2.335	2.07	21	0.01	28.0	1000	4.70	34.32
1016	4.62	34.321	4.82	8.03	2.345	2.18	27	0.01	29.6	1200	3.75	34.38
1205	3.71	34.379	4.38	8.00	2.344	2.38	45	0.02	32.3	1500	2.82	34.53
1489	2.85	34.522	3.92	7.98	2.376	2.52	75	0.02	34.3	2000	2.25	34.63
1965	2.28	34.629	3.56	7.98	2.424	2.61	109	0.02	35.4	2500	1.94	34.67
2428	1.97	34.661	3.55	7.96	2.432	2.61	123	0.03	35.8	3000	1.72	34.68
2908	1.76	34.680	3.69	7.95	2.432	2.58	127	0.03	35.3	3250	1.60	34.69
3142	1.64	34.689	3.84	7.96	2.433	2.55	127	0.01	34.9	3500	1.49	34.70
3375	1.54	34.696	4.03	7.94	2.449	2.50	127	0.02	34.4	3750	1.38	34.70
3608	1.45	34.701	4.21	7.95	2.431	2.46	125	0.01	33.9	4000	1.32	34.71
3841	1.35	34.705	4.34	7.96	2.433	2.47	123	0.01	32.8	4500	1.29	34.71
4316	1.28	34.710	4.49	7.95	2.429	2.43	122	0.03	33.1			
4780	1.31	34.709	4.54	7.95	2.419	2.40	122	0.03	33.0			

KH-71-5 Station 21		Latitude 38°05.7'S Longitude 136°23.4'W		Dec. 25, 1971 1110-1515		Depth 4,820 meters		Air Temperature 17.3°C				
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	16.2	34.648	5.65	8.20	2.334	0.22	0	0.00	0.2	0	16.2	34.65
10	16.13	34.641	5.70	8.21	2.343	0.18	1	0.02	0.2	10	16.13	34.64
29	16.07	34.637	5.68	8.20	2.340	0.22	1	0.01	0.2	30	16.07	34.64
48	16.03	34.637	5.71	8.23	2.344	0.16	1	0.01	0.2	50	16.00	34.64
72	13.81	34.587	6.11	8.24	2.339	0.23	1	0.03	0.6	75	13.79	34.59
96	13.51	34.726	6.01	8.23	2.338	0.23	1	0.04	0.4	100	13.47	34.72
145	12.38	34.583	5.85	8.23	2.345	0.38	1	0.35	2.3	150	12.36	34.59
193	12.18	34.744	5.24	8.17	2.355	0.58	1	0.04	7.0	200	12.13	34.74
290	9.06	34.526	5.05	8.11	2.341	1.22	4	0.01	16.7	300	8.85	34.51
387	7.56	34.449	5.41	8.10	2.343	1.46	5	0.00	20.2	400	7.48	34.44
484	7.09	34.413	5.72	8.09	2.351	1.50	7	0.00	20.6	500	7.04	34.41
581	6.76	34.385	5.64	8.08	2.347	1.57	8	0.00	21.7	600	6.70	34.38
679	6.44	34.362	5.58	8.08	2.351	1.67	9	0.01	22.9	700	6.38	34.36
777	6.01	34.329	5.45	8.07	2.347	1.77	12	0.01	24.2	800	5.88	34.33
973	5.02	34.321	4.91	8.02	2.355	2.09	23	0.01	28.0	1000	4.87	34.32
856	5.54	34.317	5.22	8.03	2.353	2.00	16	0.02	26.5	1200	3.77	34.37
1050	4.62	34.325*	-	-	-	-	-	-	-	1500	2.92	34.49
1353	3.24	34.428	4.18	7.94	2.364	2.47	56	0.01	33.4	2000	2.30	34.63
1834	2.45	34.604	3.63	7.94	2.427	2.57	99	0.00	35.0	2500	1.99	34.66
2323	2.08	34.652	3.53	7.93	2.435	2.62	119	0.01	35.9	3000	1.77	34.69
2814	1.85	34.676	3.61	7.92	2.454	2.55	127	0.02	35.4	3250	1.67	34.69
3058	1.75	34.688	3.79	7.90	2.447	2.35	125	0.00	34.8	3500	1.55	34.70
3301	1.65	34.698	3.98	7.93	2.439	2.47	124	0.03	34.3	3750	1.40	34.71
3542	1.52	34.701	4.14	7.94	2.434	2.48	122	0.02	33.5	4000	1.29	34.71
3780	1.39	34.707	4.33	7.93	2.427	2.47	122	0.01	33.3	4500	1.25	34.71
4253	1.23	34.710	4.52	7.93	2.437	2.40	123	0.02	32.8			
4741	1.26	34.713	4.56	7.95	2.436	2.34	123	0.02	32.2			

* interpolated value

KH-71-5 Latitude 40°56.7'S Dec. 26, 1971 Depth 5,050 meters Air Temperature 13.4°C
 Station 22 Longitude 133°42.8'W 0900-1445

Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	13.4	34.208	6.06	8.22	2.321	0.55	0	0.08	4.5	0	13.4	34.21
11	13.48	34.213	6.11	8.22	2.317	0.50	1	0.09	4.6	10	13.48	34.21
33	13.43	34.221	6.10	8.22	2.331	0.52	1	0.11	4.6	30	13.44	34.22
55	12.90	34.220	6.15	8.23	2.332	0.57	1	0.08	5.2	50	13.20	34.22
83	10.57	34.296	6.31	8.23	2.319	0.70	1	0.19	7.3	75	11.00	34.28
110	10.03	34.318	6.15	8.20	2.337	0.80	1	0.33	8.5	100	10.17	34.31
165	9.47	34.450	5.56	8.16	2.334	1.04	3	0.06	12.8	150	9.70	34.44
220	8.38	34.440	5.41	8.13	2.334	1.33	3	0.02	16.9	200	8.75	34.44
331	7.32	34.433	5.66	8.12	2.342	1.52	6	0.01	19.5	300	7.56	34.44
442	6.94	34.405	5.87	8.13	2.341	1.54	7	0.02	20.2	400	7.06	34.42
555	6.05	34.373	5.93	8.13	2.327	1.53	8	0.03	20.6	500	6.80	34.39
669	6.22	34.337	5.75	8.11	2.345	1.69	10	0.00	22.9	600	6.50	34.36
784	5.76	34.314	5.48	8.08	2.324	1.82	14	0.03	24.9	700	6.10	34.33
898	5.16	34.311	5.11	8.04	2.355	2.10	21	0.02	27.5	800	5.70	34.31
1093	4.06	34.341	4.64	8.01	2.349	2.40	37	0.01	31.2	1000	4.65	34.32
990	4.70	34.320	4.88	8.02	-	2.19	27	0.02	29.2	1200	3.62	34.37
1174	3.72	34.357	4.54	8.00	2.350	2.37	40	0.01	32.1	1500	2.86	34.50
1449	2.93	34.467	4.10	7.98	2.376	2.56	64	0.01	34.2	2000	2.26	34.63
1904	2.34	34.623	3.72	7.97	2.425	2.59	97	0.03	34.6	2500	1.91	34.67
2360	1.98	34.663	3.60	7.95	2.443	2.62	121	0.03	35.2	3000	1.70	34.68
2812	1.77	34.681	3.75	7.94	2.455	2.61	126	0.02	35.0	3250	1.60	34.69
3040	1.68	34.687	3.77	7.94	2.437	2.59	126	0.01	34.5	3500	1.50	34.70
3266	1.59	34.694	3.99	7.94	2.429	2.49	126	0.02	34.0	3750	1.39	34.71
3492	1.50	34.695	4.13	7.95	2.449	2.47	125	0.00	33.5	4000	1.33	34.71
3738	1.40	34.705	4.26	7.97	2.429	2.58	125	0.02	33.7	4500	1.25	34.71
4239	1.27	34.712	4.49	7.96	2.440	2.41	124	0.02	32.7	5000	1.26	34.71
4758	1.23	34.712	4.61	7.96	2.438	2.40	123	0.03	32.6			
5003	1.26	34.711	4.63	7.96	2.436	2.42	123	0.00	37.7			

KH-71-5 Station 23		Latitude 43°59.6'S Longitude 130°38.4'W		Dec. 27, 1971 1235-1935		Depth 4,940 meters		Air Temperature 13.3°C				
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	12.4	34.207	6.34	8.20	2.331	0.84	0	0.14	9.0	0	12.4	34.21
10	12.43	34.202	6.30	8.20	2.327	0.82	0	0.15	9.0	10	12.43	34.20
29	12.20	34.201	6.34	8.20	2.328	0.83	0	0.13	9.0	30	12.18	34.20
48	10.49	34.222	6.59	8.21	2.328	0.85	1	0.10	9.4	50	10.33	34.23
72	9.12	34.266	6.73	8.20	2.326	0.98	1	0.14	11.5	75	9.06	34.27
95	8.78	34.268	6.52	8.19	2.335	1.05	1	0.16	11.5	100	8.72	34.27
143	8.28	34.292	6.54	8.19	2.326	1.14	2	0.21	13.5	150	8.22	34.30
191	7.80	34.331	6.16	8.16	2.318	1.24	2	0.18	15.9	200	7.72	34.34
288	7.08	34.390	6.03	8.13	2.351	1.47	4	0.00	19.0	300	7.05	34.39
385	6.87	34.394	5.99	8.12	2.346	1.53	5	0.03	20.0	400	6.85	34.39
481	6.68	34.370	5.96	8.11	2.348	1.55	6	0.01	20.4	500	6.63	34.37
578	6.40	34.354	5.95	8.11	2.334	1.58	6	0.02	20.8	600	6.31	34.35
674	5.99	34.319	5.88	8.09	2.339	1.75	9	0.00	23.1	700	5.90	34.31
771	5.66	34.302	5.57	8.06	2.350	1.86	12	0.00	24.9	800	5.52	34.30
1064	4.19	34.327	4.73	7.99	2.350	2.33	40	0.00	30.6	1000	4.54	34.31
1259	3.34	34.388	4.43	7.95	2.353	2.36	49	0.05	32.6	1200	3.52	34.37
1551	2.71	34.517	4.00	7.92	2.399	2.47	70	0.01	34.0	1500	2.80	34.50
2038	2.26	34.635	3.69	7.92	2.426	2.59	104	0.20	34.3	2000	2.29	34.63
2524	1.92	34.669	3.64	7.91	2.426	2.67	119	0.00	35.2	2500	1.93	34.67
3012	1.71	34.678	3.77	7.91	2.450	2.63	127	0.00	34.9	3000	1.72	34.68
3256	1.61	34.687	3.92	7.91	2.433	2.62	127	0.03	34.5	3250	1.61	34.69
3502	1.56	34.694	4.06	7.92	2.429	2.58	125	0.00	34.4	3500	1.56	34.69
3742	1.48	34.701	4.24	7.92	2.440	2.53	124	0.00	33.8	3750	1.48	34.70
3983	1.38	34.706	4.38	7.93	2.426	2.60	123	0.02	33.2	4000	1.37	34.71
4463	1.26	34.710	4.60	7.92	2.428	2.51	122	0.00	32.7	4500	1.26	34.71
4942	1.25	34.708	4.62	7.92	2.425	2.48	123	0.00	32.7			

KH-71-5 Station 24		Latitude 47°01.8'S Longitude 126°55.6'W		Dec. 28, 1971 1700-2053		Depth 4,200 meters		Air Temperature 11.2°C				
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	9.9	34.311	6.68	8.20	2.337	0.96	0	0.12	13.8	0	9.9	34.31
10	9.89	34.308	6.71	8.20	2.337	0.93	1	0.20	13.7	10	9.89	34.31
28	9.72	34.311	6.71	8.20	2.337	1.01	1	0.20	13.7	30	9.66	34.31
47	8.90	34.322	6.69	8.18	2.330	1.06	1	0.16	14.7	50	8.81	34.32
71	7.97	34.340	6.72	8.18	2.330	1.24	2	0.14	16.0	75	7.78	34.34
94	7.15	34.349	6.70	8.17	2.328	1.34	4	0.15	16.8	100	7.06	34.35
141	6.90	34.355	6.56	8.16	2.320	1.39	5	0.35	17.5	150	6.84	34.36
187	6.69	34.368	6.37	8.15	2.320	1.39	5	0.02	19.1	200	6.64	34.37
281	6.46	34.368	6.42	8.15	-	1.45	6	0.02	19.1	300	6.44	34.37
376	6.37	34.361	6.45	8.14	2.342	1.47	7	0.00	19.7	400	6.34	34.36
470	6.22	34.347	6.33	8.14	2.342	1.49	8	0.01	20.1	500	6.15	34.34
565	5.98	34.325	6.18	8.12	2.321	1.58	9	0.00	21.5	600	5.91	34.32
661	5.70	34.307	6.09	8.11	2.331	1.71	11	0.00	22.6	700	5.55	34.30
757	5.30	34.290	5.50	8.07	2.338	1.91	16	0.00	25.7	800	5.05	34.30
950	4.42	34.324	4.82	8.00	2.347	2.24	30	0.00	29.8	1000	4.15	34.33
778	5.13	34.300	5.36	8.04	2.344	1.99	19	0.00	27.0	1200	3.37	34.39
968	4.27	34.329	4.76	8.00	2.351	2.25	33	0.00	30.4	1500	2.78	34.49
1258	3.22	34.403	4.31	7.96	2.359	2.49	54	0.00	33.2	2000	2.32	34.63
1741	2.52	34.582	3.83	7.93	2.397	2.57	86	0.00	34.5	2500	1.97	34.67
2225	2.17	34.659	3.68	7.94	2.426	2.55	107	0.00	34.6	3000	1.74	34.69
2704	1.86	34.678	3.68	7.91	2.447	2.64	123	0.00	34.9	3250	1.64	34.70
2951	1.77	34.689	3.77	7.92	2.447	2.62	124	0.00	34.9	3500	1.53	34.70
3188	1.67	34.693	3.94	7.93	2.447	2.51	124	0.00	34.0	3750	1.43	34.71
3425	1.55	34.701	4.11	7.93	2.424	2.49	123	0.00	33.7	4000	1.34	34.71
3677	1.46	34.706	4.24	7.93	2.419	2.58	122	0.00	33.6			
4167	1.28	34.710	4.42	7.94	2.424	2.43	124	0.00	33.1			

KH-71-5 Latitude 49°59.5'S Dec. 29, 1971 Depth 3,850 meters Air Temperature 8.5°C
 Station 25 Longitude 122°53.7'W 1600-1905

Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	8.7	34.306	7.07	8.21	2.338	0.94	0	0.15	13.7	0	8.7	34.31
10	8.45	34.309	7.14	8.21	2.338	0.99	0	0.17	14.0	10	8.45	34.31
29	8.07	34.315	7.04	8.20	2.338	1.08	0	0.16	14.9	30	8.05	34.32
48	7.68	34.327	7.00	8.18	2.343	1.16	1	0.16	15.6	50	7.63	34.33
72	7.13	34.337	6.74	8.15	2.343	1.33	1	0.19	17.2	75	7.05	34.34
96	6.49	34.354	6.68	8.15	2.338	1.44	4	0.05	18.8	100	6.48	34.35
144	6.44	34.361	6.68	8.13	2.336	1.45	5	0.27	18.3	150	6.43	34.36
192	6.38	34.363	6.68	8.14	2.336	1.44	5	0.32	19.0	200	6.37	34.36
289	6.27	34.365	6.59	8.14	2.336	1.47	5	0.00	19.4	300	6.25	34.36
385	6.10	34.348	6.56	8.15	2.336	1.51	6	0.00	20.3	400	6.07	34.35
482	5.94	34.331	6.57	8.12	2.343	1.51	7	0.00	20.5	500	5.89	34.33
578	5.69	34.307	6.48	8.13	2.348	1.62	7	0.00	21.2	600	5.64	34.30
675	5.48	34.297	6.60	8.13	2.343	1.59	8	0.00	21.4	700	5.38	34.29
772	5.13	34.264	6.11	8.10	2.343	1.75	11	0.00	23.6	800	5.05	34.26
965	4.58	34.300	5.07	8.03	2.345	2.12	23	0.00	28.6	1000	4.40	34.30
948	4.60	34.285	5.27	8.04	2.335	2.09	23	0.00	28.2	1200	3.60	34.36
1141	3.81	34.342	4.68	7.98	2.343	2.34	37	0.00	31.6	1500	2.85	34.47
1431	2.96	34.447	4.14	7.96	2.367	2.49	59	0.00	33.8	2000	2.37	34.64
1914	2.41	34.620	3.91	7.93	2.405	2.54	83	0.00	33.8	2500	2.05	34.71
2396	2.11	34.702	4.07	7.95	2.407	2.40	92	0.00	32.6	3000	1.67	34.71
2880	1.77	34.718	4.24	7.93	2.407	2.41	104	0.00	32.8	3250	1.50	34.71
3123	1.55	34.711	4.28	7.95	2.420	2.51	113	0.00	32.9	3500	1.43	34.71
3364	1.45	34.708	4.37	7.94	2.435	2.43	117	0.00	33.1	3750	1.41	34.71
3609	1.42	34.710	4.44	7.95	2.435	2.46	117	0.00	32.8			
3851	1.41	34.708	4.37	7.94	2.441	2.49	118	0.00	33.1			

KH-71-5 Station 26		Latitude 53°00.3'S Longitude 118°46.9'W		Dec. 30, 1971 1300-1554		Depth 3,050 meters		Air Temperature 7.6°C				
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	6.8	34.252	7.31	8.20	2.332	1.33	1	0.15	17.8	0	6.8	34.25
10	6.56	34.247	7.32	8.19	2.345	1.34	1	0.17	18.0	10	6.56	34.25
29	6.24	34.240	7.22	8.16	2.343	1.43	2	0.14	19.1	30	6.23	34.24
48	5.94	34.234	7.07	8.15	2.353	1.52	5	0.16	20.0	50	5.91	34.23
72	5.64	34.240	6.98	8.14	2.351	1.58	8	0.17	20.5	75	5.62	34.24
96	5.39	34.253	6.88	8.12	2.343	1.64	8	0.18	21.0	100	5.32	34.25
143	4.85	34.242	6.60	8.12	2.336	1.75	12	0.18	23.2	150	4.81	34.24
191	4.65	34.231	6.48	8.11	2.350	1.79	12	0.05	23.6	200	4.63	34.23
287	4.29	34.216	6.66	8.11	2.332	1.83	13	0.13	23.8	300	4.25	34.21
383	3.97	34.207	6.35	8.09	2.351	1.97	17	0.05	26.0	400	3.92	34.21
480	3.66	34.210	6.11	8.09	2.352	2.08	22	0.02	27.6	500	3.58	34.21
576	3.21	34.209	5.95	8.08	2.351	2.16	26	0.00	29.0	600	3.12	34.21
672	2.92	34.216	5.82	8.06	2.353	2.25	29	0.00	30.4	700	3.00	34.23
769	3.27	34.333	4.81	8.02	2.365	2.37	41	0.00	32.3	800	3.24	34.35
963	2.84	34.406	4.41	7.98	2.379	2.52	56	0.00	34.1	1000	2.73	34.42
1140	2.63	34.488	4.12	7.97	2.378	2.56	67	0.00	34.8	1200	2.56	34.51
1333	2.45	34.567	3.99	7.95	2.403	2.54	76	0.00	34.5	1500	2.35	34.62
1622	2.28	34.653	4.03	7.96	2.406	2.47	83	0.00	33.3	2000	2.02	34.69
2104	1.94	34.699	4.15	7.98	2.424	2.43	98	0.00	32.8	2500	1.62	34.71
2588	1.57	34.717	4.27	7.99	2.425	2.43	112	0.00	33.1	3000	1.51	34.71
3075	1.50	34.714	4.27	7.96	2.434	2.42	118	0.00	33.3			

KH-71-5 Latitude 56°05.1'S Dec. 31, 1971 Depth 3,340 meters Air Temperature 6.2°C
 Station 27 Longitude 115°24.2'W 0806-1107

Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	5.7	34.174	7.53	8.18	2.345	1.37	1	0.19	20.0	0	5.7	34.17
10	5.55	34.166	7.56	8.17	2.341	1.39	1	0.23	20.2	10	5.55	34.17
29	5.00	34.207	7.26	8.13	2.351	1.60	4	0.16	21.2	30	4.99	34.21
48	4.87	34.209	7.16	8.16	2.351	1.64	7	0.16	21.5	50	4.86	34.21
71	4.71	34.202	7.14	8.14	2.336	1.65	7	0.18	21.8	75	4.68	34.20
95	4.50	34.207	7.00	8.13	2.319	1.75	11	0.20	22.5	100	4.45	34.21
143	4.01	34.197	6.92	8.12	2.328	1.84	14	0.20	23.7	150	3.96	34.20
190	3.71	34.185	6.88	8.12	2.359	1.89	15	0.27	24.1	200	3.65	34.18
286	3.09	34.156	6.65	8.10	2.351	2.02	19	0.10	26.5	300	2.99	34.15
381	2.46	34.130	6.66	8.07	2.350	2.13	21	0.01	28.0	400	2.40	34.13
477	2.31	34.163	6.45	8.05	2.351	2.19	26	0.01	28.3	500	2.36	34.18
574	2.57	34.242	5.55	7.98	2.351	2.33	37	0.01	31.2	600	2.54	34.25
671	2.45	34.274	5.36	7.97	2.358	2.41	42	0.00	32.4	700	2.51	34.30
768	2.67	34.366	4.62	7.96	2.368	2.50	51	0.02	33.5	800	2.66	34.39
963	2.52	34.470	4.22	7.94	2.376	2.60	65	0.01	34.5	1000	2.51	34.49
1036	2.50	34.510	4.10	7.94	2.376	2.61	69	0.00	34.5	1200	2.41	34.58
1229	2.39	34.588	4.03	7.91	2.396	2.54	77	0.00	34.0	1500	2.25	34.66
1518	2.24	34.667	4.07	7.93	2.400	2.45	83	0.00	33.1	2000	1.94	34.73
1999	1.94	34.728	4.33	7.95	2.406	2.41	90	0.00	32.0	2500	1.52	34.73
2477	1.54	34.730	4.46	7.95	2.411	2.40	107	0.00	32.2	3000	1.24	34.72
2955	1.27	34.720	4.57	7.90	2.417	2.41	117	0.00	32.3	3500	1.00	34.72
3194	1.10	34.721	4.67	7.93	2.417	2.40	112	0.00	32.7			
3434	1.01	34.719	4.74	7.91	2.419	2.37	122	0.01	32.5			

KH-71-5 Latitude 59°00.7'S Jan. 1, 1972 Depth 5,220 meters Air Temperature 4.5°C
 Station 28 Longitude 111°24.8'W 0420-0853

Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	4.5	34.202	7.20	8.15	2.333	1.73	10	0.23	22.2	0	4.5	34.20
10	4.48	34.202	7.20	8.15	2.336	1.68	11	0.26	22.2	10	4.48	34.20
29	4.48	34.203	7.20	8.15	2.336	1.70	11	0.26	22.2	30	4.48	34.20
48	4.06	34.211	7.11	8.15	2.337	1.73	11	0.24	22.6	50	4.06	34.21
72	4.04	34.211	7.11	8.15	2.338	1.74	11	0.24	22.7	75	4.04	34.21
96	4.04	34.211	7.10	8.15	2.337	1.73	11	0.25	22.7	100	4.04	34.21
144	4.04	34.209	7.05	8.15	2.338	1.76	11	0.26	22.8	150	4.04	34.21
191	4.04	34.213	7.02	8.15	2.337	1.76	11	0.26	22.8	200	4.04	34.21
287	4.03	34.211	7.06	8.15	2.337	1.75	11	0.27	22.6	300	4.03	34.21
383	3.95	34.206	6.94	8.14	2.337	2.20	12	0.16	23.3	400	3.94	34.21
480	3.89	34.203	6.96	8.14	2.330	1.82	12	0.25	23.0	500	3.87	34.20
577	3.50	34.172	6.68	8.11	2.331	1.95	16	0.00	24.4	600	3.42	34.17
675	3.18	34.163	6.49	8.09	2.338	2.06	19	0.00	27.3	700	3.01	34.16
773	2.86	34.181	6.15	8.07	2.348	2.17	26	0.00	28.9	800	2.84	34.20
971	2.77	34.318	4.93	7.99	2.357	2.45	46	0.00	32.7	1000	2.75	34.35
957	2.78	34.316	4.89	7.98	2.365	2.44	48	0.00	32.8	1200	2.62	34.49
1138	2.68	34.448	4.23	7.94	2.358	2.56	64	0.00	34.1	1500	2.35	34.62
1410	2.42	34.583	4.00	7.92	2.374	2.49	76	0.00	34.0	2000	2.02	34.71
1922	2.08	34.705	4.22	7.94	2.386	2.38	88	0.00	32.0	2500	1.62	34.73
2430	1.67	34.731	4.47	7.93	2.404	2.33	101	0.00	31.4	3000	1.25	34.72
2933	1.30	34.725	4.58	7.95	2.425	2.36	113	0.00	31.7	3250	1.12	34.72
3157	1.16	34.720	4.63	7.95	2.398	2.41	118	0.00	32.2	3500	0.98	34.71
3384	1.06	34.717	4.69	7.95	2.409	2.35	123	0.00	32.2	3750	0.82	34.71
3611	0.90	34.709	4.76	7.94	2.431	2.34	123	0.00	32.5	4000	0.67	34.70
3838	0.77	34.707	4.87	7.93	2.398	2.41	131	0.00	32.5	4500	0.48	34.70
4295	0.54	34.702	4.81	7.93	2.427	2.40	136	0.00	32.6	5000	0.43	34.70
4755	0.45	34.699	4.95	7.91	2.426	2.39	140	0.00	32.6			
5222	0.42	34.699	4.95	7.90	2.431	2.38	143	0.00	32.7			

KH-71-5 Station 29		Latitude 62°09.6'S Longitude 106°35.5'W		Jan. 2, 1972 0250-0715		Depth 5,120 meters		Air Temperature 2.2°C				
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	2.0	33.952	7.77	8.16	2.350	1.91	34	0.20	25.0	0	2.0	33.95
10	2.06	33.931	7.77	8.17	2.331	1.87	45	0.20	25.0	10	2.06	33.93
29	1.79	33.964	7.82	8.17	2.360	1.92	43	0.21	25.2	30	1.78	33.97
48	1.53	34.016	7.86	8.18	2.350	1.87	39	0.18	24.6	50	1.51	34.02
72	1.37	34.022	7.70	8.17	2.358	1.93	39	0.18	25.6	75	1.35	34.02
96	1.26	34.034	7.61	8.15	2.348	2.03	49	0.18	26.0	100	1.25	34.04
144	1.10	34.077	7.35	8.13	2.360	2.10	56	0.18	27.8	150	1.06	34.08
192	0.88	34.081	7.28	8.12	2.348	2.12	42	0.05	28.8	200	0.87	34.08
288	1.20	34.152	6.55	8.08	2.355	2.24	52	0.01	30.3	300	1.33	34.17
385	2.08	34.300	5.11	7.99	2.372	2.47	64	0.00	33.5	400	2.13	34.32
481	2.24	34.390	4.57	7.96	2.380	2.50	100	0.02	34.4	500	2.25	34.40
578	2.27	34.458	4.25	7.95	2.375	2.53	81	0.02	34.5	600	2.27	34.47
673	2.29	34.518	4.14	7.94	2.399	2.54	90	0.00	34.8	700	2.29	34.53
769	2.26	34.559	4.07	7.94	2.406	2.51	90	0.00	34.3	800	2.25	34.57
958	2.19	34.627	4.06	7.94	2.409	2.56	100	0.01	33.8	1000	2.18	34.64
1146	2.15	34.674	4.14	7.94	2.411	2.39	100	0.02	33.0	1200	2.12	34.68
1260	2.07	34.693	4.18	7.94	2.393	2.36	103	0.00	32.2	1500	1.93	34.72
1464	1.95	34.714	4.26	7.95	2.403	2.34	106	0.01	31.8	2000	1.56	34.73
1743	1.76	34.730	4.41	7.97	2.414	2.27	115	0.00	31.4	2500	1.22	34.72
2229	1.38	34.725	4.53	7.96	2.424	2.33	131	0.00	31.8	3000	0.96	34.71
2712	1.11	34.716	4.75	7.95	2.407	2.33	134	0.02	32.2	3250	0.84	34.71
3195	0.87	34.710	4.75	7.94	2.418	2.43	140	0.01	32.7	3500	0.71	34.70
3436	0.74	34.703	4.80	7.94	2.414	2.30	150	0.00	32.7	3750	0.59	34.70
3676	0.64	34.700	4.87	7.93	2.419	2.36	143	0.01	33.0	4000	0.47	34.70
3915	0.51	34.700	4.93	7.93	2.416	2.52	146	0.00	32.3	4500	0.39	34.70
4154	0.41	34.699	4.93	7.93	2.430	2.36	147	0.01	32.6	5000	0.40	34.70
4632	0.39	34.697	5.00	7.90	2.426	2.38	148	0.01	32.7			
5109	0.41	34.698	5.02	7.90	2.430	2.33	148	0.00	32.9			

KH-71-5 Station 30		Latitude 64°59.7'S Longitude 100°02.9'W		Jan. 3, 1972 1423-1900		Depth 4,910 meters		Air Temperature 2.3°C				
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	0.8	33.610	8.00	8.18	2.316	1.84	15	0.18	24.2	0	0.8	33.61
9	0.77	33.607	8.06	8.19	2.324	1.83	15	0.18	24.2	10	0.77	33.61
28	0.77	33.608	8.02	8.19	2.324	1.86	15	0.18	24.2	30	0.76	33.61
47	0.48	33.859	8.02	8.18	2.338	1.88	14	0.13	24.6	50	0.38	33.87
71	-0.82	33.914	8.05	8.15	2.338	2.03	19	0.12	26.2	75	-0.92	33.92
95	-1.21	33.956	7.85	8.14	2.358	2.13	27	0.18	28.0	100	-1.19	33.96
143	-0.37	34.030	7.57	8.13	2.345	2.14	26	0.06	28.7	150	-0.31	34.04
191	0.01	34.080	7.25	8.10	2.349	2.20	30	0.05	28.7	200	0.18	34.09
287	1.54	34.296	5.36	7.98	2.358	2.48	33	0.02	33.2	300	1.63	34.31
383	1.87	34.396	4.75	7.97	2.367	2.55	63	0.01	34.5	400	1.90	34.41
479	2.02	34.473	4.35	7.95	2.383	2.54	69	0.00	34.8	500	2.05	34.49
576	2.12	34.537	4.18	7.96	2.396	2.55	75	0.00	34.6	600	2.12	34.55
672	2.11	34.583	4.10	7.94	2.397	2.51	78	0.00	34.4	700	2.12	34.60
769	2.14	34.625	4.08	7.95	2.397	2.47	81	0.00	33.6	800	2.13	34.63
963	2.09	34.674	4.12	7.95	2.400	2.45	85	0.00	33.0	1000	2.06	34.68
1059	2.03	34.690	4.19	7.95	2.406	2.43	86	0.00	32.6	1200	1.96	34.71
1247	1.93	34.719	4.27	7.97	2.406	2.36	89	0.00	32.0	1500	1.78	34.73
1530	1.75	34.732	4.44	7.97	2.406	2.32	96	0.00	31.6	2000	1.37	34.74
2001	1.37	34.736	4.56	7.97	2.419	2.36	107	0.00	31.6	2500	1.19	34.72
2475	1.12	34.720	4.68	7.96	2.419	2.36	116	0.00	32.0	3000	0.87	34.71
2953	0.89	34.716	4.75	7.96	2.411	2.39	125	0.00	32.4	3250	0.76	34.71
3193	0.79	34.708	4.77	7.95	2.411	2.47	128	0.00	32.4	3500	0.66	34.71
3441	0.69	34.708	4.85	7.95	2.411	2.40	131	0.02	32.5	3750	0.55	34.70
3711	0.57	34.702	4.87	7.93	2.419	2.38	134	0.00	32.6	4000	0.48	34.70
3941	0.49	34.706	4.92	7.93	2.419	2.51	137	0.00	32.8	4500	0.43	34.70
4418	0.44	34.703	4.94	7.93	2.419	2.43	141	0.00	32.7			
4902	0.40	34.702	4.96	7.91	2.419	2.42	153	0.03	33.0			

KH-71-5 Latitude 61°59.4'S Jan. 4, 1972 Depth 5,100 meters Air Temperature 3.9°C
 Station 31 Longitude 95°45.9'W 1641-2048

Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	4.0	34.049	7.69	8.23	2.334	1.46	1	0.21	21.2	0	4.0	34.05
10	3.98	34.047	7.75	8.23	2.344	1.40	1	0.20	21.0	10	3.98	34.05
29	3.90	34.047	7.74	8.22	2.344	1.44	1	0.20	21.2	30	3.89	34.05
48	3.27	34.056	7.49	8.19	2.354	1.69	3	0.23	22.2	50	3.13	34.06
71	1.91	34.059	7.38	8.14	2.354	2.07	14	0.15	25.3	75	1.84	34.06
95	1.62	34.062	7.33	8.14	2.344	2.07	19	0.15	26.3	100	1.58	34.07
143	1.44	34.084	7.15	8.11	2.340	2.13	23	0.08	27.9	150	1.44	34.09
191	1.44	34.095	7.04	8.11	2.354	2.13	24	0.03	27.7	200	1.44	34.10
286	1.56	34.152	6.40	8.07	2.352	2.29	33	0.00	30.0	300	1.60	34.16
382	1.93	34.244	5.51	8.01	2.362	2.45	31	0.00	32.6	400	1.98	34.25
478	2.19	34.352	4.79	7.98	2.363	2.54	56	0.00	34.0	500	2.24	34.37
573	2.36	34.432	4.37	7.96	2.379	2.56	64	0.00	34.4	600	2.40	34.45
669	2.42	34.490	4.14	7.94	2.380	2.62	70	0.00	34.8	700	2.40	34.50
765	2.33	34.528	4.06	7.94	2.374	2.62	72	0.00	34.6	800	2.30	34.54
956	2.25	34.605	4.02	7.94	2.397	2.63	81	0.00	34.1	1000	2.24	34.62
1148	2.18	34.660	4.07	7.97	2.397	2.51	86	0.00	33.3	1200	2.15	34.67
1255	2.12	34.681	4.12	7.95	2.397	2.49	89	0.00	32.7	1500	1.99	34.71
1447	2.02	34.711	4.21	7.95	2.397	2.40	85	0.00	32.2	2000	1.61	34.73
1746	1.81	34.726	4.36	7.97	2.414	2.41	98	0.00	31.8	2500	1.29	34.72
2221	1.44	34.728	4.49	7.96	2.419	2.40	107	0.00	31.6	3000	1.03	34.71
2706	1.19	34.721	4.66	7.95	2.412	2.45	115	0.00	31.8	3250	0.89	34.71
3190	0.92	34.711	4.72	7.94	2.411	2.45	125	0.00	32.2	3500	0.75	34.71
3431	0.78	34.710	4.79	7.95	2.412	2.39	128	0.00	32.5	3750	0.64	34.71
3671	0.69	34.707	4.82	7.94	2.411	2.45	131	0.00	32.5	4000	0.54	34.70
3911	0.57	34.705	4.87	7.94	2.414	2.58	134	0.00	33.0	4500	0.46	34.70
4148	0.52	34.705	4.89	7.93	2.419	2.43	138	0.00	33.0	5000	0.44	34.70
4625	0.45	34.703	4.96	7.92	2.422	2.48	143	0.00	33.0			
5101	0.44	34.703	4.96	7.91	2.419	2.43	145	0.00	33.0			

KH-71-5 Station 32		Latitude 58°56.5'S Longitude 92°43.5'W	Jan. 5, 1972 1300-1710		Depth 4,200 meters	Air Temperature 7.3°C						
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (mL/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	5.9	34.184	7.23	8.19	2.348	1.28	18	0.17	19.1	0	5.9	34.18
10	5.88	34.180	7.30	8.18	2.348	1.24	21	0.18	19.2	10	5.88	34.18
29	5.83	34.179	7.29	8.19	2.348	1.33	22	0.19	19.2	30	5.82	34.18
48	5.20	34.169	7.53	8.18	2.342	1.27	20	0.17	19.1	50	5.16	34.17
72	4.68	34.164	7.17	8.11	2.338	1.52	17	0.19	20.6	75	4.65	34.16
95	4.42	34.150	7.28	8.19	2.346	1.53	25	0.21	20.7	100	4.37	34.15
143	3.99	34.145	7.16	8.13	2.346	1.64	25	0.19	21.1	150	3.95	34.15
191	3.82	34.164	6.96	8.16	2.329	1.74	23	0.20	23.3	200	3.79	34.16
287	3.58	34.165	6.83	8.13	2.329	1.82	24	0.15	24.7	300	3.55	34.16
383	3.33	34.164	6.52	8.12	2.338	1.97	29	0.05	26.6	400	3.28	34.17
479	2.99	34.169	6.31	8.10	2.323	2.01	49	0.01	27.6	500	2.97	34.18
575	2.91	34.208	5.88	8.08	2.343	2.13	41	0.02	29.1	600	2.81	34.21
671	2.59	34.210	5.13	8.06	2.341	2.20	45	0.00	30.5	700	2.70	34.24
767	3.08	34.336	4.74	8.01	2.347	2.41	61	0.01	32.7	800	2.92	34.34
961	2.74	34.412	4.36	7.99	2.367	2.61	71	0.00	33.9	1000	2.66	34.43
806	2.88	34.337	4.78	8.00	2.344	2.46	61	0.00	33.0	1200	2.47	34.53
997	2.67	34.430	4.30	7.98	2.377	2.48	77	0.00	34.0	1500	2.32	34.62
1285	2.42	34.558	4.02	7.95	2.377	2.50	92	0.00	34.3	2000	2.03	34.72
1763	2.17	34.684	4.11	7.97	2.395	2.38	98	0.00	32.3	2500	1.68	34.73
2239	1.86	34.728	4.33	7.98	2.410	2.30	117	0.00	31.7	3000	1.35	34.73
2720	1.51	34.732	4.50	7.97	2.410	2.27	118	0.01	31.5	3250	1.23	34.72
2960	1.37	34.727	4.56	7.98	2.408	2.33	126	0.00	31.4	3500	1.01	34.72
3201	1.26	34.721	4.62	7.98	2.408	2.22	129	0.01	32.1	3750	0.79	34.71
3441	1.06	34.717	4.68	7.98	2.417	2.33	135	0.01	32.3	4000	0.65	34.71
3682	0.84	34.710	4.75	7.98	2.416	2.48	141	0.00	32.5			
4166	0.58	34.706	4.88	7.92	2.417	2.38	147	0.01	32.8			

KH-71-5 Latitude 55°01.0'S Jan. 7, 1972 Depth 4,840 meters Air Temperature 7.6°C
 Station 33 Longitude 90°20.0'W 0738-1200

Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgatl)	SiO ₂ -Si (µgatl)	NO ₂ -N (µgatl)	NO ₃ -N (µgatl)	Interpolated		
										Depth	Water Temp.	Salinity
0	7.1	34.205	7.09	8.19	2.341	1.29	2	0.17	17.4	0	7.1	34.20
9	6.87	34.203	7.06	8.19	2.347	1.25	3	0.20	17.4	10	6.87	34.20
26	6.86	34.204	7.12	8.19	2.343	1.25	3	0.22	17.6	30	6.86	34.20
44	6.77	34.206	7.09	8.19	2.345	1.27	3	0.21	17.6	50	6.60	34.20
66	6.15	34.201	6.97	8.19	2.347	1.40	4	0.18	18.3	75	6.12	34.20
88	6.07	34.199	6.87	8.18	2.352	1.44	6	0.17	18.6	100	5.92	34.20
133	5.47	34.218	6.87	8.17	2.352	1.53	9	0.25	19.7	150	5.37	34.22
178	5.27	34.231	6.75	8.17	2.350	1.56	9	0.04	20.3	200	5.21	34.23
270	5.06	34.238	6.63	8.15	2.350	1.66	11	0.03	21.6	300	4.99	34.24
363	4.89	34.232	6.44	8.13	2.341	1.72	12	0.02	23.1	400	4.83	34.23
455	4.70	34.227	6.27	8.12	2.341	1.83	16	0.02	24.2	500	4.58	34.23
548	4.46	34.227	5.90	8.08	2.341	1.95	19	0.01	25.7	600	4.34	34.24
640	4.23	34.245	5.49	8.05	2.352	2.08	25	0.02	28.1	700	3.98	34.25
734	3.82	34.256	5.35	8.03	2.365	2.19	29	0.01	29.3	800	3.65	34.28
922	3.37	34.329	4.78	7.99	2.357	2.44	43	0.01	31.6	1000	3.16	34.36
951	3.27	34.345	4.65	7.98	2.365	2.40	45	0.01	32.5	1200	2.83	34.44
1144	2.91	34.421	4.32	7.96	2.385	2.54	61	0.01	34.0	1500	2.52	34.55
1434	2.57	34.534	3.97	7.94	2.371	2.55	77	0.01	34.3	2000	2.21	34.67
1916	2.26	34.658	4.01	7.94	2.402	2.49	89	0.02	32.8	2500	1.88	34.72
2399	1.96	34.714	4.18	7.95	2.410	2.40	101	0.02	32.2	3000	1.55	34.72
2878	1.64	34.722	4.31	7.95	2.410	2.38	112	0.01	32.0	3250	1.41	34.72
3117	1.48	34.723	4.48	7.95	2.408	2.39	115	0.00	31.7	3500	1.20	34.72
3356	1.34	34.720	4.56	7.94	2.412	2.34	115	0.00	32.0	3750	0.95	34.71
3595	1.10	34.713	4.65	7.94	2.411	2.36	125	0.00	32.0	4000	0.78	34.71
3848	0.87	34.711	4.75	7.94	2.417	2.47	132	0.00	32.4	4500	0.65	34.71
4343	0.65	34.707	4.85	7.93	2.430	2.43	136	0.02	32.4			
4824	0.66	34.711	4.88	7.93	2.423	2.41	143	0.01	32.6			

KH-71-5 Station 34		Latitude 51°02.9'S Longitude 90°08.3'W	Jan. 8, 1972 0603-0953	Depth 4,835 meters	Air Temperature 9.7°C							
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	7.8	34.134	6.86	8.20	2.319	1.27	6	0.18	17.3	0	7.8	34.13
9	7.84	34.131	6.91	8.20	2.328	1.28	7	0.20	17.3	10	7.84	34.13
27	7.83	34.131	6.89	8.20	2.340	1.27	7	0.26	17.3	30	7.81	34.13
45	6.84	34.148	7.06	8.21	2.338	1.31	7	0.20	17.4	50	6.79	34.15
67	6.65	34.156	6.98	8.20	2.336	1.36	7	0.20	17.9	75	6.62	34.16
89	6.53	34.168	6.89	8.20	2.336	1.39	10	0.18	18.2	100	6.40	34.17
134	5.77	34.170	6.90	8.19	2.333	1.47	12	0.20	18.7	150	5.61	34.17
180	5.44	34.176	6.84	8.18	2.338	1.51	11	0.28	19.1	200	5.41	34.19
272	5.36	34.224	6.65	8.16	2.331	1.57	12	0.00	20.8	300	5.35	34.23
365	5.31	34.238	6.43	8.15	2.332	1.65	14	0.01	22.3	400	5.28	34.24
459	5.14	34.232	6.36	8.14	2.336	1.70	18	0.02	23.2	500	5.07	34.23
554	4.95	34.232	6.15	8.12	2.330	1.79	18	0.00	24.2	600	4.79	34.23
649	4.62	34.231	6.56	8.09	2.330	1.96	21	0.01	26.5	700	4.47	34.24
745	4.33	34.249	5.44	8.05	2.333	2.12	28	0.01	28.2	800	4.15	34.26
938	3.69	34.315	4.73	8.00	2.339	2.37	42	0.00	31.8	1000	3.49	34.34
1018	3.43	34.347	4.55	7.98	2.355	2.41	48	0.01	32.9	1200	3.03	34.42
1209	3.02	34.429	4.07	7.94	2.366	2.59	65	0.00	34.5	1500	2.69	34.55
1495	2.70	34.544	3.50	7.90	2.389	2.71	88	0.00	36.1	2000	2.23	34.64
1972	2.25	34.634	3.57	7.92	2.414	2.67	107	0.01	35.1	2500	1.95	34.68
2452	1.97	34.680	3.78	7.93	2.432	2.56	119	0.00	34.4	3000	1.75	34.70
2933	1.78	34.698	3.97	7.94	2.422	2.54	122	0.00	33.7	3250	1.61	34.71
3173	1.65	34.708	4.16	7.94	2.417	2.51	123	0.00	33.0	3500	1.41	34.72
3409	1.50	34.717	4.36	7.94	2.417	2.42	123	0.01	32.8	3750	1.12	34.72
3647	1.25	34.720	4.53	7.94	2.417	2.39	127	0.01	32.6	4000	0.88	34.72
3886	0.97	34.717	4.64	7.94	2.416	2.48	134	0.00	32.8	4500	0.71	34.71
4362	0.74	34.712	4.81	7.93	2.414	2.49	143	0.01	32.7			
4840	0.68	34.712	4.87	7.93	2.417	2.47	146	0.01	32.7			

KH-71-5 Station 35		Latitude 47°00.0'S Longitude 87°47.8'W	Jan. 9, 1972 0610-1025		Depth 4,050 meters	Air Temperature 10.7°C						
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	9.9	34.042	6.53	8.19	2.302	1.23	3	0.19	16.2	0	9.9	34.04
9	10.06	34.036	6.55	8.19	2.318	1.16	3	0.24	16.1	10	10.05	34.04
28	9.01	34.045	6.71	8.20	2.318	1.20	3	0.20	16.2	30	8.99	34.05
46	8.82	34.046	6.71	8.21	2.320	1.16	3	0.20	16.2	50	8.77	34.05
70	8.25	34.043	6.74	8.21	2.325	1.24	4	0.20	16.5	75	7.98	34.04
93	7.23	34.055	6.81	8.20	2.328	1.33	5	0.22	17.3	100	7.11	34.05
139	6.67	34.065	6.78	8.19	2.331	1.32	5	0.26	17.5	150	6.58	34.07
186	6.33	34.095	6.72	8.19	2.327	1.32	5	0.38	18.2	200	6.28	34.12
280	5.99	34.279	6.16	8.13	2.333	1.58	9	0.00	21.6	300	5.93	34.28
375	5.70	34.271	6.25	8.14	2.333	1.65	10	0.00	22.1	400	5.64	34.27
470	5.47	34.258	6.21	8.13	2.344	1.63	12	0.01	22.6	500	5.39	34.26
565	5.24	34.252	6.11	8.12	2.342	1.74	12	0.00	23.6	600	5.15	34.25
661	5.00	34.246	5.83	8.10	2.337	1.88	15	0.00	25.6	700	4.91	34.25
756	4.78	34.254	5.50	8.07	2.337	1.99	18	0.00	27.1	800	4.66	34.26
949	4.00	34.298	4.78	8.02	2.356	2.38	33	0.00	31.0	1000	3.78	34.32
1146	3.33	34.383	4.16	7.96	2.366	2.55	52	0.00	34.0	1200	3.24	34.41
1337	3.04	34.474	3.45	7.91	2.393	2.75	73	0.00	36.2	1500	3.86	34.53
1623	2.74	34.558	3.14	7.90	2.403	2.82	95	0.00	37.2	2000	3.32	34.62
2100	2.22	34.632	3.39	7.92	2.421	2.67	110	0.00	36.2	2500	1.97	34.67
2576	1.94	34.675	3.71	7.94	2.436	2.50	117	0.00	34.7	3000	1.79	34.69
3050	1.76	34.692	3.88	7.94	2.432	2.46	122	0.00	34.2	3250	1.59	34.70
3288	1.56	34.699	4.07	7.94	2.436	2.53	123	0.00	33.9	3500	1.36	34.71
3525	1.34	34.707	4.31	7.94	2.432	2.49	127	0.01	33.3	3750	1.04	34.71
3761	1.03	34.714	4.55	7.95	2.429	2.43	131	0.00	32.7	4000	0.87	34.71
4014	0.86	34.710	4.66	7.96	2.435	2.60	136	0.01	33.0			

KH-71-5 Latitude 42°50.7'S Jan. 10, 1972 Depth 3,300 meters Air Temperature 14.4°C
 Station 36 Longitude 86°03.9'W 0535-0836

Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (μgat/l)	SiO ₂ -Si (μgat/l)	NO ₂ -N (μgat/l)	NO ₃ -N (μgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	12.7	33.963	6.21	8.19	2.317	1.13	9	0.28	14.1	0	12.7	33.96
10	12.42	33.956	6.29	8.20	2.315	1.14	9	0.26	14.0	10	12.42	33.96
29	12.01	33.963	6.32	8.20	2.321	1.11	10	0.25	14.1	30	11.97	33.96
47	11.08	33.961	6.53	8.22	2.318	1.15	9	0.17	14.3	50	10.90	33.96
71	9.03	33.969	6.87	8.22	2.325	1.23	9	0.16	15.5	75	8.55	33.97
95	7.50	34.045	6.37	8.18	2.330	1.39	12	0.21	18.2	100	7.36	34.05
142	6.63	34.127	6.25	8.14	2.331	1.52	12	0.06	20.3	150	6.56	34.13
190	6.10	34.236	6.04	8.13	2.343	1.64	12	0.03	21.9	200	6.04	34.24
285	5.81	34.277	6.18	8.13	2.341	1.67	13	0.02	22.0	300	5.78	34.28
380	5.59	34.267	6.23	8.13	2.338	1.70	13	0.03	22.6	400	5.55	34.26
475	5.38	34.254	6.15	8.12	2.341	1.75	17	0.01	23.3	500	5.30	34.25
570	5.10	34.250	5.95	8.10	2.337	1.84	17	0.01	24.9	600	5.00	34.25
666	4.76	34.249	5.56	8.07	2.331	2.00	22	0.00	27.4	700	4.62	34.25
761	4.39	34.265	5.19	8.04	2.345	2.15	30	0.01	29.3	800	4.22	34.28
954	3.65	34.335	4.41	7.98	2.350	2.48	45	0.02	33.0	1000	3.51	34.36
1092	3.28	34.407	3.89	7.92	2.376	2.64	61	0.03	35.3	1200	3.12	34.45
1280	3.02	34.483	3.32	7.89	2.380	2.78	81	0.01	37.0	1500	2.74	34.56
1560	2.66	34.571	3.04	7.88	2.421	2.81	105	0.19	37.7	2000	2.20	34.63
2032	2.18	34.631	3.26	7.90	2.441	2.74	121	0.00	36.4	2500	1.94	34.67
2509	1.93	34.667	3.49	7.92	2.448	2.68	132	0.01	35.7	3000	1.78	34.68
3022	1.77	34.682	3.66	7.92	2.449	2.71	132	0.02	35.3	3250	1.64	34.69
3264	1.63	34.692	3.90	7.93	2.443	2.65	134	0.01	34.9			

KH-71-5 Station 37		Latitude 38°57.2'S Longitude 84°39.1'W		Jan. 11, 1972 0720-1115		Depth 4,370 meters		Air Temperature 15.8°C				
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	16.7	34.144	5.71	8.24	2.326	0.62	5	0.16	5.9	0	16.7	34.14
9	16.68	34.138	5.72	8.23	2.329	0.59	5	0.12	6.0	10	16.66	34.14
27	16.16	34.135	5.84	8.24	2.329	0.62	5	0.13	6.0	30	16.07	34.13
45	15.16	34.096	6.09	8.25	2.327	0.67	5	0.11	6.6	50	14.35	34.09
68	12.51	34.091	6.26	8.26	2.323	0.67	5	0.21	7.0	75	12.27	34.09
90	11.89	34.065	6.08	8.24	2.315	0.81	6	0.29	8.6	100	11.92	34.06
135	10.97	34.104	5.66	8.20	2.317	1.00	6	0.28	12.9	150	10.66	34.14
181	9.95	34.180	5.29	8.16	2.330	1.17	5	0.03	15.0	200	9.40	34.19
272	7.39	34.225	5.00	8.08	2.332	1.72	9	0.01	23.1	300	7.00	34.25
363	6.36	34.287	4.98	8.06	2.337	1.92	12	0.01	25.5	400	6.13	34.29
455	5.83	34.284	5.54	8.09	2.332	1.82	14	0.20	24.4	500	5.62	34.28
547	5.45	34.268	5.68	8.09	2.331	1.84	13	0.19	24.8	600	5.28	34.26
639	5.15	34.259	5.64	8.08	2.322	1.91	15	0.02	26.1	700	4.89	34.26
731	4.75	34.256	5.35	8.05	2.320	2.05	21	0.01	27.9	800	4.46	34.26
918	3.97	34.308	4.54	7.99	2.342	2.43	36	0.01	32.3	1000	3.68	34.37
1059	3.52	34.400	3.67	7.91	2.375	2.74	57	0.02	36.2	1200	3.27	34.47
1239	3.21	34.483	3.04	7.88	2.372	2.90	78	0.01	38.3	1500	2.89	34.56
1509	2.88	34.562	2.82	7.86	2.416	2.92	100	0.00	38.7	2000	2.23	34.63
1960	2.27	34.630	3.10	7.90	2.439	2.85	119	0.02	37.7	2500	1.89	34.68
2414	1.92	34.671	3.58	7.93	2.440	2.66	127	0.02	35.9	3000	1.73	34.69
2893	1.77	34.687	3.70	7.94	2.457	2.70	130	0.01	35.4	3250	1.62	34.69
3170	1.66	34.690	3.86	7.92	2.449	2.67	131	0.02	34.8	3500	1.54	34.70
3447	1.55	34.700	4.03	7.93	2.438	2.57	131	0.01	34.3	3750	1.49	34.70
3681	1.50	34.703	4.13	7.93	2.437	2.54	131	0.19	33.7	4000	1.47	34.71
3928	1.47	34.706	4.14	7.92	2.437	2.61	132	0.01	34.5			
4397	1.48	34.705	4.19	7.92	2.437	2.50	131	0.03	34.3			

KH-71-5 Station 38		Latitude 35°57.5'S	Longitude 83°47.6'W	Jan. 12, 1972 0605-0950	Depth 4,180 meters	Air Temperature 17.3°C						
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	17.9	34.168	5.62	8.22	2.314	0.58	5	0.12	5.7	0	17.9	34.17
9	17.94	34.165	5.61	8.21	2.334	0.57	4	0.07	5.8	10	17.93	34.16
27	17.00	34.074	5.74	8.22	2.316	0.63	5	0.14	6.5	30	16.74	34.07
46	14.98	34.081	6.24	8.24	2.343	0.61	5	0.08	6.1	50	14.46	34.09
69	13.14	34.104	6.46	8.27	2.341	0.57	4	0.11	5.6	75	12.95	34.10
92	12.51	34.100	6.08	8.25	2.333	0.72	9	0.23	6.9	100	12.35	34.09
138	11.69	34.062	5.95	8.22	2.333	0.80	6	0.51	9.1	150	11.42	34.06
185	10.46	34.063	5.82	8.19	2.338	1.01	4	0.20	13.0	200	10.13	34.07
278	8.25	34.245	4.94	8.09	2.346	1.55	8	0.00	20.6	300	7.66	34.27
372	6.64	34.294	4.64	8.04	2.335	1.94	12	0.01	25.8	400	6.25	34.29
466	5.98	34.290	5.37	8.08	2.334	1.83	15	0.00	24.7	500	5.84	34.29
560	5.59	34.277	5.70	8.09	2.333	1.77	12	0.00	24.3	600	5.44	34.27
654	5.22	34.263	5.57	8.08	2.323	1.88	15	0.01	25.9	700	5.03	34.26
748	4.82	34.256	5.31	8.05	2.333	2.04	22	0.00	27.7	800	4.62	34.26
939	4.05	34.316	4.32	7.98	2.349	2.49	38	0.00	32.6	1000	3.81	34.34
901	4.22	34.300	4.51	7.99	2.350	2.43	34	0.01	31.9	1200	3.35	34.46
1086	3.57	34.391	3.68	7.91	2.382	2.67	56	0.00	35.6	1500	2.86	34.56
1363	3.07	34.530	2.80	7.86	2.415	2.88	89	0.00	38.5	2000	2.22	34.63
1826	2.42	34.617	3.17	7.90	2.439	2.81	111	0.00	37.1	2500	1.89	34.68
2289	2.00	34.658	3.54	7.92	2.441	2.65	123	0.00	35.6	3000	1.72	34.69
2743	1.80	34.693	3.68	7.93	2.438	2.62	127	0.00	35.1	3250	1.65	34.69
2991	1.72	34.694	3.74	7.94	2.436	2.55	130	0.00	35.1	3500	1.60	34.70
3230	1.66	34.694	3.82	7.93	2.444	2.50	130	0.01	35.0	3750	1.60	34.70
3460	1.60	34.698	3.93	7.93	2.441	2.58	131	0.01	34.7	4000	1.61	34.70
3695	1.60	34.700	3.94	7.93	2.441	2.70	131	0.00	35.0			
4167	1.62	34.700	3.98	7.92	2.441	2.56	130	0.00	34.7			

KH-71-5 Station 39		Latitude 32°56.1'S Longitude 76°00.0'W	Jan. 20-21, 1972 2145-0200		Depth 4,330 meters		Air Temperature 18.4°C					
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	18.9	33.977	5.51	8.25	2.321	0.25	1	0.00	0.0	0	18.9	33.98
10	18.90	33.976	5.52	8.25	2.330	0.24	1	0.01	0.0	10	18.90	33.98
28	18.60	33.942	5.60	8.25	2.330	0.26	1	0.01	0.0	30	18.35	33.94
48	16.36	33.946	6.36	8.31	2.340	0.28	1	0.01	0.0	50	16.24	33.98
71	14.66	34.149	6.18	8.27	2.341	0.32	1	0.13	0.7	75	14.15	34.14
95	12.64	33.945	5.75	8.23	2.317	0.67	1	0.15	6.4	100	12.51	33.95
119	12.04	33.999	5.64	-	-	-	-	-	-	150	11.00	33.99
142	11.24	33.983	5.19	8.14	2.317	1.22	3	0.04	14.9	200	9.77	34.24
190	9.93	34.176	3.75	7.98	2.326	1.84	10	0.03	22.4	300	8.67	34.44
286	8.82	34.441	1.56	7.78	2.337	2.61	20	0.03	31.6	400	7.31	34.38
383	7.57	34.408	2.10	7.81	2.334	2.57	21	0.03	34.2	500	6.02	34.31
480	6.20	34.314	4.17	7.97	2.334	2.10	16	0.04	29.8	600	5.40	34.28
578	5.50	34.286	4.02	8.02	2.328	2.04	16	0.06	28.6	700	4.86	34.28
676	5.01	34.275	4.83	8.01	2.353	2.22	21	0.02	29.9	800	4.39	34.31
774	4.51	34.296	4.45	7.98	2.353	2.33	29	0.03	31.7	1000	3.82	34.43
972	3.88	34.415	3.10	7.89	2.386	2.80	58	0.03	37.5	1200	3.38	34.51
902	4.03	34.370	3.53	7.91	2.366	2.67	48	0.01	36.7	1500	2.84	34.57
1098	3.59	34.475	2.70	7.85	2.403	2.97	74	0.04	39.7	2000	2.23	34.63
1392	3.02	34.550	2.69	7.87	2.421	2.90	99	0.02	39.7	2500	1.94	34.66
1883	2.33	34.618	3.08	7.89	2.424	2.79	117	0.04	38.0	3000	1.81	34.67
2369	1.99	34.653	3.44	7.92	2.455	2.73	125	0.03	36.2	3500	1.71	34.68
2853	1.83	34.669	3.77	7.93	2.453	2.53	130	0.05	35.9	4000	1.61	34.69
3342	1.75	34.680	3.78	7.91	2.453	2.52	129	0.04	35.7			
3830	1.61	34.688	3.99	7.93	2.453	2.56	129	0.03	34.9			
4316	1.62	34.691	4.08	7.91	2.451	2.60	129	0.05	34.4			

KH-71-5 Station 40		Latitude 32°29.1'S Longitude 84°00.0'W	Jan. 22, 1972 2030-2350		Depth 3,790 meters	Air Temperature 23.9°C						
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	21.8	34.435	5.24	8.21	2.322	0.38	1	0.05	1.7	0	21.8	34.44
10	21.11	34.394	5.32	8.23	2.334	0.29	1	0.03	1.0	10	21.11	34.39
29	19.48	34.320	5.59	8.25	2.332	0.29	2	0.05	0.5	30	19.40	34.32
48	15.81	34.205	6.47	8.29	2.332	0.31	1	0.00	0.2	50	15.65	34.20
72	14.08	34.241	6.02	8.26	2.332	0.50	1	0.32	2.5	75	13.98	34.24
96	13.24	34.173	5.73	8.24	2.329	0.63	1	0.35	7.0	100	13.11	34.16
144	11.82	34.054	5.68	8.21	2.325	0.85	1	0.28	11.0	150	11.65	34.05
192	10.46	34.077	5.16	8.14	2.320	1.23	3	0.02	15.7	200	10.30	34.09
289	8.81	34.396	2.22	7.85	2.332	2.40	17	0.03	29.5	300	8.67	34.40
386	7.02	34.325	3.57	7.94	2.325	2.25	15	0.02	29.3	400	6.82	34.32
483	5.96	34.294	4.68	8.02	2.332	2.05	14	0.03	27.8	500	5.86	34.29
581	5.35	34.269	5.20	8.05	2.320	1.96	15	0.02	27.3	600	5.24	34.27
679	4.90	34.272	5.08	8.03	2.330	2.09	18	0.03	28.3	700	4.80	34.27
777	4.50	34.289	4.53	7.99	2.358	2.34	29	0.03	31.2	800	4.40	34.30
974	3.76	34.404	3.25	7.88	2.375	2.75	56	0.02	36.7	1000	3.69	34.42
1093	3.46	34.477	2.81	7.84	2.405	2.86	74	0.07	39.0	1200	3.24	34.52
1287	3.09	34.542	2.61	7.83	2.431	2.97	93	0.08	39.2	1500	2.76	34.58
1580	2.65	34.595	2.81	7.86	2.444	2.79	108	0.02	38.4	2000	2.19	34.64
2069	2.13	34.640	3.25	7.90	2.446	2.71	120	0.04	36.6	2500	1.92	34.67
2559	1.89	34.669	3.57	7.91	2.455	2.62	125	0.01	35.5	3000	1.78	34.68
3052	1.76	34.682	3.73	7.92	2.444	2.51	126	0.03	35.1	3500	1.63	34.69
3299	1.66	34.687	3.82	7.92	2.449	-	-	-	-			
3546	1.63	34.692	3.85	7.92	2.449	2.55	128	0.02	35.4			
3793	1.65	34.693	3.85	7.92	2.449	2.56	129	0.01	35.2			

KH-71-5 Station 41		Latitude 30°00.3'S Longitude 86°08.1'W	Jan. 23, 1972 1627-1942		Depth 3,830 meters	Air Temperature 24.3°C						
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated Depth	Water Temp.	Salinity
0	24.5	34.909	5.18	8.19	2.375	0.30	-	0.00	0.2	0	24.5	34.91
10	22.47	34.824	5.18	8.21	2.365	0.31	-	0.00	0.2	10	22.47	34.82
29	21.09	34.779	5.31	8.23	2.364	0.33	-	0.00	0.2	30	21.00	34.77
49	17.61	34.584	5.98	8.26	2.354	0.30	-	0.00	0.2	50	17.55	34.58
73	16.11	34.545	5.94	8.26	2.353	0.34	-	0.00	0.2	75	16.02	34.54
98	15.14	34.471	5.71	8.25	2.351	0.42	-	0.23	2.0	100	15.06	34.46
146	13.81	34.300	5.55	8.23	2.341	0.59	-	0.38	5.1	150	13.65	34.28
195	11.76	34.119	5.30	8.18	2.328	0.93	-	0.03	11.5	200	11.60	34.12
292	9.20	34.335	3.52	7.98	2.341	1.94	-	0.01	22.9	300	9.00	34.33
390	7.06	34.325	3.96	7.97	2.333	2.11	-	0.01	27.4	400	6.94	34.32
486	6.07	34.303	4.96	8.03	2.348	1.95	-	0.02	26.1	500	5.98	34.30
582	5.46	34.273	5.52	8.07	2.338	1.90	-	0.02	25.4	600	5.39	34.27
679	4.98	34.262	5.28	8.04	2.347	2.00	-	0.02	27.4	700	4.88	34.26
776	4.57	34.283	4.67	7.99	2.347	2.29	-	0.02	30.4	800	4.41	34.29
971	3.80	34.412	3.20	7.88	2.379	2.82	-	0.01	37.2	1000	3.75	34.45
897	3.95	-	-	-	-	-	-	-	-	1200	3.41	34.53
1091	3.61	34.506	2.55	7.84	2.410	3.03	-	0.02	39.2	1500	2.87	34.58
1401	3.04	34.564	2.67	7.85	2.423	2.92	-	0.00	38.6	2000	2.19	34.64
1890	2.31	34.625	3.18	7.89	2.432	2.85	-	0.01	36.7	2500	1.89	34.67
2378	1.93	34.662	3.57	7.92	2.437	2.66	-	0.00	35.6	3000	1.78	34.69
2879	1.80	34.684	3.76	7.93	2.437	2.57	-	0.01	35.0	3500	1.70	34.69
3368	1.71	34.693	3.87	7.93	2.445	2.57	-	0.01	35.0			
3843	1.69	34.694	3.85	7.92	2.450	2.62	-	0.01	35.0			

KH-71-5 Station 42		Latitude 27°01.2'S Longitude 88°36.7'W	Jan. 24, 1972 1430-1800		Depth 3,690 meters	Air Temperature 23.1°C						
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	23.1	35.236	5.14	8.20	2.399	0.28	1	0.01	0.2	0	23.1	35.24
10	22.74	35.226	5.07	8.21	2.397	0.24	1	0.01	0.2	10	22.74	35.23
29	21.74	35.206	5.18	8.22	2.393	0.24	2	0.00	1.1	30	21.66	35.21
48	20.35	35.248	5.42	8.24	2.385	0.21	2	0.01	1.1	50	20.18	35.25
71	18.96	35.162	5.60	8.26	2.383	0.21	2	0.00	0.3	75	18.89	35.16
95	18.64	35.163	5.61	8.26	2.385	0.18	2	0.01	0.2	100	18.51	35.15
118	18.04	35.127	5.49	-	-	-	-	-	-	150	17.50	35.07
142	17.75	35.096	5.39	8.25	2.383	0.21	2	0.00	0.8	200	14.80	34.66
189	15.54	34.727	5.15	8.22	2.347	0.39	2	0.07	3.9	300	10.58	34.33
284	10.93	34.327	3.84	8.04	2.333	1.49	8	0.00	18.3	400	8.46	34.45
379	8.89	34.428	2.46	7.89	2.328	2.33	17	0.02	27.7	500	6.81	34.42
474	7.15	34.442	3.12	7.93	2.331	2.33	19	0.01	28.6	600	5.80	34.33
569	6.07	34.342	4.03	7.97	2.331	2.25	18	0.00	29.2	700	5.18	34.33
664	5.33	34.323	4.12	7.97	2.352	2.33	24	0.02	31.0	800	4.73	34.35
759	4.93	34.340	3.81	7.95	2.351	2.44	31	0.01	33.2	1000	3.99	34.46
950	4.14	34.423	2.89	7.87	2.376	2.85	56	0.00	37.9	1200	3.44	34.53
1144	3.59	34.515	2.50	7.85	2.402	3.03	81	0.02	39.2	1500	2.82	34.59
1249	3.32	34.541	2.59	7.85	2.415	2.79	92	0.01	38.7	2000	2.09	34.64
1438	2.94	34.573	2.83	7.87	2.421	2.82	98	0.00	37.7	2500	1.85	34.67
1723	2.44	34.610	3.20	7.91	2.427	2.74	110	0.01	36.2	3000	1.81	34.69
2200	1.93	34.661	3.62	7.94	2.442	2.52	123	0.01	35.0	3500	1.83	34.69
2679	1.83	34.678	3.69	7.93	2.442	2.48	126	0.01	34.7			
3163	1.81	34.688	3.74	7.93	2.444	2.62	128	0.00	35.2			
3672	1.84	34.687	3.77	7.93	2.443	2.55	126	0.00	35.0			

KH-71-5 Station 43		Latitude 24°06.1'S Longitude 91°04.9'W	Jan. 25, 1972 1058-1432	Depth 3,810 meters	Air Temperature 23.9°C							
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	23.0	35.562	5.05	8.20	2.405	0.33	0	0.00	0.1	0	23.0	35.56
10	22.69	35.550	5.03	8.21	2.405	0.28	0	0.00	0.2	10	22.69	35.55
29	22.28	35.518	5.66	8.21	2.396	0.34	0	0.00	0.2	30	22.25	35.51
48	20.41	35.345	5.38	8.23	2.391	0.28	0	0.00	0.2	50	20.27	35.33
72	19.02	35.221	5.58	8.24	2.397	0.30	1	0.00	0.2	75	18.87	35.21
96	18.25	35.169	5.52	8.25	2.389	0.30	1	0.00	0.3	100	18.18	35.17
144	17.52	35.127	5.19	8.22	2.391	0.43	1	0.37	1.5	150	17.30	35.10
192	14.10	34.526	4.76	8.16	2.325	0.79	1	0.02	8.6	200	13.70	34.51
288	10.72	34.468	2.06	7.86	2.304	2.26	15	0.01	23.6	300	10.45	34.47
384	8.73	34.498	1.57	7.79	2.326	2.62	21	0.01	31.5	400	8.48	34.50
480	7.28	34.446	2.06	7.81	2.324	2.61	24	0.00	34.5	500	7.01	34.43
576	6.14	34.379	3.19	7.90	2.323	2.52	24	0.00	33.3	600	5.97	34.38
673	5.55	34.389	2.91	7.87	2.341	2.68	31	0.01	35.8	700	5.40	34.40
770	5.04	34.428	2.66	7.85	2.349	2.84	43	0.00	37.6	800	4.89	34.44
962	4.21	34.484	2.32	7.83	2.380	3.08	67	0.00	40.9	1000	4.08	34.50
953	4.28	34.483	2.25	7.82	2.373	3.02	67	0.01	39.6	1200	3.55	34.54
1146	3.68	34.526	2.51	7.83	2.391	2.97	82	0.00	38.7	1500	2.91	34.58
1435	3.06	34.568	2.77	7.87	2.403	2.90	98	0.00	36.1	2000	2.12	34.64
1917	2.20	34.633	3.43	7.91	2.431	2.65	113	0.01	35.8	2500	1.88	34.67
2399	1.90	34.667	3.64	7.94	2.454	2.65	123	0.00	35.3	3000	1.82	34.68
2887	1.82	34.680	3.67	7.93	2.449	2.55	126	0.00	35.3	3500	1.80	34.69
3385	1.80	34.690	3.67	7.92	2.461	2.71	133	0.00	35.3			
3862	1.81	34.684	3.66	7.91	2.451	2.56	128	0.00	35.6			

KH-71-5 Station 44		Latitude 20°50.1'S Longitude 93°20.5'W		Jan. 26, 1972 0825-1236		Depth 4,120 meters		Air Temperature 23.5°C				
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	22.9	35.552	4.99	8.21	2.399	0.39	1	0.00	0.1	0	22.9	35.55
10	22.80	35.546	5.00	8.21	2.417	0.37	1	0.00	0.2	10	22.80	35.55
29	22.51	35.539	5.04	8.21	2.419	0.39	1	0.00	0.2	30	22.35	35.54
48	19.95	35.491	5.55	8.24	2.414	0.32	1	0.00	0.2	50	19.91	35.49
73*	19.69*	35.559	5.27	8.23	2.414	0.27	1	0.00	0.2	75	19.67	35.56
97	19.25	35.548	5.19	8.23	2.412	0.38	1	0.02	0.2	100	19.17	35.54
121	18.67	35.442	5.25	-	-	-	-	-	-	150	18.36	35.40
145	18.38	35.409	5.09	8.22	2.415	0.50	1	0.91	1.3	200	18.00	35.37
193	18.09	35.384	5.05	8.20	2.417	0.64	1	0.82	2.3	300	12.50	34.56
289	13.01	34.563	3.66	8.06	2.337	1.46	5	0.00	14.9	400	9.17	34.53
386	9.53	34.541	1.26	7.79	2.335	2.68	21	0.00	29.7	500	7.25	34.47
482	7.52	34.480	1.65	7.78	2.326	2.78	26	0.00	35.6	600	6.20	34.42
579	6.36	34.426	2.37	7.83	2.326	2.76	29	0.00	35.9	700	5.55	34.43
667	5.74	34.419	2.41	7.83	2.355	2.82	35	0.00	37.8	800	5.06	34.47
820	4.96	34.475	1.70	7.78	2.369	3.17	57	0.00	41.5	1000	4.25	34.51
1014	4.20	34.513	1.90	7.79	2.397	3.22	76	0.00	41.7	1200	3.62	34.54
1242	3.52	34.550	2.20	7.81	2.412	3.11	93	0.00	40.3	1500	3.00	34.58
1435	3.14	34.574	2.43	7.83	2.429	3.08	103	0.01	39.3	2000	2.20	34.64
1725	2.57	34.611	2.83	7.86	2.426	2.90	114	0.02	37.8	2500	1.85	34.67
2209	2.00	34.654	3.41	7.91	2.426	2.70	123	0.00	35.8	3000	1.78	34.68
2689	1.82	34.676	3.56	7.92	2.455	2.59	128	0.02	35.6	3500	1.78	34.69
3170	1.77	34.685	3.51	7.91	2.460	2.74	134	0.00	35.9	4000	1.82	34.69
3650	1.79	34.688	3.50	7.89	2.468	2.68	136	0.01	36.3			
4132	1.83	34.690	3.49	7.89	2.468	2.65	136	0.00	36.2			

* interpolated value

KH-71-5 Station 45		Latitude 17°59.5'S Longitude 95°40.8'W		Jan. 27, 1972 0755-1210		Depth 4,540 meters		Air Temperature 24.0°C				
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	23.5	35.807	4.98	8.23	2.430	0.36	0	0.00	0.3	0	23.5	35.81
10	23.45	35.800	4.94	8.23	2.422	0.30	1	0.00	1.0	10	23.45	35.80
29	22.22	35.680	5.19	8.23	2.427	0.30	1	0.00	1.0	30	22.05	35.68
48	20.52	35.618	5.40	8.25	2.439	0.25	1	0.01	0.8	50	20.45	35.61
72	19.85	35.584	5.36	8.26	2.426	0.23	1	0.00	0.2	75	19.80	35.58
96	19.51	35.562	5.24	8.25	2.407	0.24	1	0.01	0.2	100	19.45	35.55
145	18.80	35.488	5.03	8.24	2.407	0.48	1	0.84	1.2	150	18.68	35.47
193	16.90	35.109	4.90	8.22	2.383	0.57	1	0.04	3.0	200	16.50	35.05
289	10.73	34.527	1.70	7.87	2.351	2.35	17	0.02	23.6	300	10.33	34.52
385	8.51	34.523	1.15	7.77	2.351	2.87	25	0.01	24.8	400	8.25	34.52
482	6.99	34.460	1.93	7.82	2.352	2.80	28	0.00	36.1	500	6.82	34.46
578	6.17	34.460	1.85	7.82	2.352	2.94	28	0.00	38.9	600	6.02	34.46
674	5.53	34.469	1.62	7.81	2.363	3.11	48	0.01	41.6	700	5.39	34.47
771	5.02	34.485	1.56	7.79	2.368	3.19	60	0.00	42.3	800	4.90	34.49
964	4.28	34.524	1.68	7.80	2.399	3.25	78	0.00	42.4	1000	4.17	34.53
1184	3.59	34.557	1.93	7.81	2.421	3.19	97	0.04	41.7	1200	3.55	34.56
1378	3.13	34.583	2.12	7.84	2.441	3.10	109	0.00	40.7	1500	2.91	34.60
1669	2.65	34.617	2.44	7.86	2.441	3.00	122	0.01	40.2	2000	2.19	34.65
2155	2.05	34.658	3.13	7.92	2.455	2.77	130	0.00	37.8	2500	1.88	34.67
2640	1.84	34.676	3.37	7.93	2.461	2.68	134	0.01	37.0	3000	1.80	34.68
3125	1.79	34.682	3.36	7.94	2.466	2.77	139	0.00	37.3	3500	1.78	34.69
3610	1.78	34.687	3.44	7.93	2.466	2.72	138	0.02	36.8	4000	1.82	34.69
4089	1.82	34.691	3.46	7.92	2.466	2.71	137	0.01	36.7	4500	1.86	34.69
4571	1.86	34.689	3.47	7.91	2.468	2.69	137	0.01	36.7			

KH-71-5 Station 46		Latitude 15°00.0'S Longitude 97°52.3'W	Jan. 28, 1972 0927-1315		Depth 3,483 meters		Air Temperature 24.4°C					
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	23.6	35.760	4.97	8.24	2.441	0.54	1	0.01	1.9	0	23.6	35.76
10	23.72	35.758	4.99	8.23	2.427	0.53	1	0.02	1.9	10	23.72	35.76
29	22.81	35.663	5.17	8.24	2.418	0.58	1	0.05	2.9	30	22.75	35.66
48	21.05	35.625	5.39	8.26	2.420	0.48	1	0.01	1.0	50	20.95	35.62
72	19.22	35.551	5.13	8.23	2.418	0.67	1	0.24	3.0	75	19.16	35.55
96	18.80	35.508	5.03	8.22	2.416	0.72	1	0.89	3.2	100	18.74	35.50
144	17.84	35.336	4.58	8.18	2.388	0.98	2	0.04	8.1	150	17.56	35.29
193	14.04	34.792	2.85	8.01	2.356	1.73	8	0.01	17.8	200	13.77	34.77
289	11.41	34.786	0.08	7.73	2.350	2.87	27	0.00	28.7	300	11.18	34.78
385	9.49	34.673	0.51	7.74	2.355	2.85	29	0.00	35.0	400	9.26	34.66
481	8.25	34.615	0.66	7.74	2.352	2.91	34	0.00	38.6	500	8.04	34.61
578	7.10	34.564	0.91	7.75	2.357	3.08	41	0.00	41.1	600	6.94	34.56
674	6.34	34.538	1.08	7.75	2.360	3.13	48	0.00	42.3	700	6.12	34.53
771	5.53	34.517	1.11	7.73	2.364	3.25	59	0.00	44.2	800	5.38	34.52
966	4.62	34.529	1.36	7.76	2.388	3.28	76	0.01	43.8	1000	4.50	34.53
1060	4.29	34.539	1.56	7.77	2.405	3.27	81	0.01	43.1	1200	3.80	34.56
1252	3.63	34.564	1.87	7.80	2.421	3.22	99	0.00	41.7	1500	3.01	34.60
1541	2.92	34.603	2.21	7.83	2.429	3.01	117	0.01	40.5	2000	2.31	34.64
2025	2.28	34.640	2.76	7.88	2.458	2.87	131	0.00	38.5	2500	1.87	34.67
2514	1.86	34.676	3.43	7.90	2.458	2.65	134	0.00	36.3	3000	1.80	34.68
3000	1.80	34.683	3.32	7.92	2.477	2.72	140	0.18	36.4			
3490	1.84	34.683	3.36	7.91	2.482	2.72	143	0.00	36.6			

KH-71-5 Station 47		Latitude 11°58.1'S Longitude 100°01.6'W	Jan. 29, 1972 0557-1010		Depth 4,435 meters	Air Temperature 23.7°C						
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	24.0	35.474	4.96	8.21	2.398	0.69	2	0.17	7.4	0	24.0	35.47
10	23.96	35.467	4.93	8.22	2.404	0.67	3	0.16	7.3	10	23.96	35.47
29	22.85	35.391	5.13	8.22	2.404	0.69	3	0.13	7.5	30	22.83	35.39
48	22.61	35.544	5.09	8.24	2.404	0.61	4	0.11	6.1	50	22.60	35.54
72	22.41	35.444	5.10	8.20	2.396	0.71	4	0.18	7.7	75	22.32	35.44
96	20.05	35.449	4.80	8.19	2.409	0.91	5	0.36	7.2	100	19.55	35.44
144	15.21	34.961	2.67	8.01	2.355	1.64	9	0.02	17.9	150	14.85	34.93
191	12.56	34.799	0.26	7.77	2.360	2.63	21	0.00	25.4	200	12.25	34.79
239	11.19	34.771	0.16	-	-	-	-	-	-	300	10.06	34.76
286	10.33	34.764	0.47	7.77	2.357	2.68	31	0.00	33.8	400	8.63	34.66
381	8.81	34.676	0.84	7.78	2.352	2.78	35	0.00	36.7	500	7.77	34.62
477	7.97	34.628	0.91	7.77	2.354	2.83	40	0.00	38.8	600	6.71	34.57
572	7.07	34.586	0.71	7.73	2.359	3.11	48	0.00	41.8	700	6.07	34.55
668	6.27	34.554	0.73	7.73	2.363	3.14	57	0.00	43.8	800	5.54	34.54
764	5.70	34.540	0.92	7.74	2.379	3.25	64	0.00	44.1	1000	4.46	34.54
955	4.74	34.540	1.46	7.78	2.384	3.27	79	0.00	42.7	1200	3.72	34.56
1048	4.20	34.548	1.82	7.81	2.405	3.16	89	0.01	41.1	1500	2.98	34.60
1241	3.60	34.569	2.04	7.83	2.425	3.06	104	0.00	40.5	2000	2.26	34.64
1530	2.92	34.604	2.23	7.85	2.447	3.02	122	0.00	40.2	2500	1.87	34.67
2013	2.25	34.644	2.68	7.88	2.457	2.82	140	0.00	38.9	3000	1.79	34.68
2493	1.87	34.674	3.31	7.93	2.450	2.72	140	0.00	36.7	3500	1.80	34.68
2999	1.79	34.681	3.22	7.92	2.477	2.70	148	0.00	37.2	4000	1.84	34.68
3478	1.80	34.681	3.15	7.90	2.479	2.72	156	0.00	37.4			
3956	1.84	34.681	3.13	7.90	2.486	2.65	158	0.00	37.7			
4439	1.88	34.680	3.14	7.89	2.487	2.67	158	0.00	37.6			

KH-71-5 Station 48		Latitude 09°01.8'S Longitude 100°00.3'W	Jan. 29-30, 1972 2335-0310		Depth 4,170 meters		Air Temperature 23.6°C					
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	24.4	34.917	4.96	8.22	2.342	0.59	1	0.11	5.3	0	24.4	34.92
10	24.64	34.917	4.99	8.22	2.353	0.57	2	0.10	5.4	10	24.64	34.92
29	24.55	34.937	4.99	8.22	2.373	0.58	2	0.08	5.5	30	24.52	34.94
48	22.82	35.422	5.25	8.23	2.405	0.72	2	0.10	6.8	50	22.74	35.42
72	21.69	35.416	5.08	8.21	2.405	0.81	3	0.17	7.5	75	21.48	35.41
96	19.02	35.330	3.91	8.14	2.389	1.14	5	0.89	10.1	100	18.52	35.30
143	13.74	34.922	0.31	7.81	2.356	2.55	17	0.03	26.6	150	13.37	34.91
191	11.96	34.868	0.31	7.78	2.364	2.61	26	0.01	31.7	200	11.80	34.86
287	10.77	34.806	0.28	7.76	2.363	2.67	31	0.01	34.4	300	10.62	34.80
383	9.59	34.732	0.19	7.73	2.364	2.88	37	0.02	37.6	400	9.38	34.72
480	8.38	34.651	0.38	7.73	2.356	3.01	39	0.00	39.6	500	8.13	34.64
577	7.08	34.589	0.67	7.73	2.360	3.10	45	0.00	42.2	600	6.83	34.58
673	6.19	34.555	0.64	7.71	2.369	3.27	55	0.02	45.4	700	6.00	34.55
770	5.48	34.539	0.85	7.73	2.393	3.26	65	0.01	45.4	800	5.26	34.54
961	4.48	34.550	1.64	7.80	2.426	3.16	81	0.00	42.6	1000	4.37	34.55
811	5.17	-	-	-	-	-	-	-	-	1200	3.67	34.57
1003*	4.36	34.549	1.79	7.79	2.426	3.10	85	0.00	42.1	1500	2.90	34.61
1291	3.38	34.585	1.93	7.81	2.443	3.13	109	0.00	42.0	2000	2.20	34.65
1772	2.45	34.634	2.41	7.86	2.457	2.93	135	0.00	40.1	2500	1.86	34.67
2252	2.00	34.664	2.77	7.88	2.469	2.81	146	0.00	38.7	3000	1.77	34.68
2731	1.78	34.680	3.12	7.91	2.478	2.79	147	0.00	37.7	3500	1.78	34.68
3211	1.77	34.678	3.11	7.91	2.481	2.78	153	0.00	37.8	4000	1.80	34.68
3690	1.78	34.683	3.15	7.90	2.478	2.79	154	0.00	37.9			
4170	1.82	34.681	3.16	7.89	2.483	2.82	154	0.00	37.7			

* interpolated value

KH-71-5 Latitude 05°56.3'S Jan. 30, 1972 Depth 3,747 meters Air Temperature 24.5°C
 Station 49 Longitude 100°00.8'W 1724-2047

Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	24.7	34.640	4.97	8.17	2.344	0.61	1	0.14	6.5	0	24.7	34.64
10	24.80	34.635	4.98	8.17	2.341	0.64	2	0.15	6.2	10	24.80	34.64
29	24.15	34.765	5.17	8.18	2.362	0.70	3	0.11	7.0	30	24.10	34.80
48	22.60	35.222	5.22	8.19	2.379	0.80	3	0.13	8.5	50	22.33	35.23
72	17.86	35.253	2.85	8.08	2.390	1.44	7	1.45	13.5	75	17.02	35.25
96	13.99	34.996	0.57	7.92	2.361	2.33	17	0.88	28.5	100	13.70	34.99
144	12.76	34.922	0.28	7.89	2.361	2.42	26	0.02	32.4	150	12.72	34.92
192	12.43	34.901	0.27	7.87	2.353	2.50	25	0.05	32.9	200	12.39	34.90
288	11.62	34.857	0.24	7.85	2.353	2.60	29	0.03	33.7	300	11.50	34.85
384	10.33	34.777	0.19	7.82	2.364	2.84	34	0.03	36.1	400	10.02	34.76
480	8.71	34.679	0.16	7.81	2.358	3.06	42	0.03	40.2	500	8.47	34.64
576	7.50	34.611	0.30	7.78	2.360	3.27	48	0.01	43.5	600	7.22	34.60
672	6.47	34.569	0.75	7.83	2.375	3.20	56	0.02	44.1	700	6.22	34.56
768	5.66	34.550	1.31	7.86	2.371	3.15	65	0.03	42.5	800	5.42	34.55
960	4.78	34.550	1.79	7.90	2.391	3.09	79	0.02	41.3	1000	4.49	34.55
848	5.16	34.544	1.76	7.89	2.390	3.08	71	0.04	41.5	1200	3.80	34.57
1039	4.34	34.556	1.77	7.90	2.412	3.20	89	0.02	42.0	1500	2.98	34.61
1326	3.41	34.586	2.16	7.92	2.418	3.08	111	0.01	40.8	2000	2.22	34.64
1807	2.44	34.634	2.34	7.92	2.464	2.99	141	0.01	40.3	2500	1.90	34.67
2287	2.02	34.658	2.72	7.96	2.474	2.88	149	0.01	39.0	3000	1.76	34.68
2769	1.79	34.677	3.06	7.97	2.476	2.76	149	0.01	37.9	3500	1.77	34.68
3261	1.75	34.676	3.15	7.95	2.490	2.81	154	0.02	37.8			
3744	1.79	34.676	3.17	7.94	2.492	2.80	156	0.01	37.2			

KH-71-5 Station 50		Latitude 02°56.0'S Longitude 100°05.5'W	Jan. 31, 1972 1440-1812	Depth 3,470 meters	Air Temperature 24.9°C							
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	24.7	34.755	4.75	8.14	2.361	0.83	6	0.20	10.5	0	24.7	34.76
10	24.52	34.749	4.87	8.14	2.363	0.85	8	0.21	10.4	10	24.52	34.75
29	19.50	34.793	4.12	8.12	2.358	1.10	9	0.16	13.8	30	19.25	34.80
48	15.36	34.949	2.85	8.05	2.361	1.52	15	0.20	19.7	50	15.07	34.95
71	13.50	34.958	2.12	8.00	2.373	1.80	19	0.07	23.2	75	13.42	34.96
95	13.24	34.948	1.92	7.98	2.363	1.89	20	0.03	24.5	100	13.19	34.95
142	12.85	34.927	1.66	7.96	2.358	1.95	21	0.01	26.0	150	12.80	34.92
190	12.64	34.907	1.44	7.93	2.355	2.04	22	0.02	27.4	200	12.60	34.91
285	12.26	34.886	1.04	7.88	2.346	2.23	25	0.01	29.7	300	12.17	34.88
380	11.47	34.841	0.08	7.77	2.368	2.67	33	0.02	34.7	400	11.22	34.82
474	9.16	34.703	0.17	7.74	2.353	2.99	42	0.00	39.0	500	8.75	34.68
570	7.88	34.640	0.30	7.73	2.368	3.21	50	0.00	41.8	600	7.47	34.62
665	6.59	34.587	0.76	7.76	2.360	3.13	59	0.00	43.2	700	6.33	34.58
760	5.88	34.559	1.39	7.81	2.368	3.13	64	0.02	41.6	800	5.61	34.55
953	4.69	34.550	1.87	7.83	2.406	3.14	81	0.00	41.0	1000	4.49	34.56
1026	4.38	34.561	1.81	7.84	2.423	3.10	90	0.01	41.9	1200	3.79	34.58
1217	3.74	34.578	1.99	7.84	2.419	2.94	105	0.00	41.3	1500	3.09	34.61
1503	3.08	34.607	2.01	7.85	2.444	2.95	125	0.00	41.5	2000	2.32	34.64
1986	2.34	34.644	2.32	7.87	2.463	2.92	149	0.01	40.0	2500	1.89	34.67
2468	1.91	34.667	2.76	7.90	2.482	2.90	153	0.01	38.7	3000	1.73	34.68
2951	1.73	34.675	3.07	7.93	2.469	2.88	153	0.00	38.0			
3435	1.75	34.678	3.16	7.90	2.469	2.76	154	0.01	37.2			

KH-71-5 Station 51		Latitude 00°01.5'N Longitude 100°00.8'W		Feb. 1-2, 1972 2150-0145		Depth 3,340 meters		Air Temperature 23.7°C				
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	24.1	34.790	4.79	8.16	2.325	0.70	6	0.21	7.9	0	24.1	34.79
9	24.08	34.787	4.81	8.16	2.361	0.69	6	0.21	7.9	10	24.08	34.79
28	23.25	34.705	4.64	8.17	2.355	0.71	6	0.20	8.8	30	23.20	34.70
46	22.49	34.669	4.38	8.17	2.361	0.74	6	0.25	7.9	50	22.30	34.67
69	20.90	34.977	3.68	8.13	2.358	0.97	8	0.60	11.4	75	20.10	35.07
91	17.23	35.237	2.17	8.02	2.371	1.46	10	0.31	19.0	100	16.28	35.23
135	13.88	34.976	2.51	8.04	2.358	1.51	17	0.03	20.7	150	13.51	34.95
177	13.12	34.927	2.54	8.03	2.358	1.60	19	0.03	22.2	200	12.90	34.91
257	12.51	34.891	2.00	7.98	2.361	1.81	20	0.03	25.2	300	12.40	34.89
335	12.02	34.864	0.66	7.85	2.361	2.33	28	0.03	31.6	400	9.53	34.72
414	9.12	34.695	0.50	7.78	2.358	2.68	42	0.03	38.3	500	7.90	34.63
496	7.94	34.630	0.85	7.78	2.363	2.85	46	0.04	40.3	600	7.00	34.59
580	7.15	34.593	1.08	7.79	2.363	2.85	51	0.01	39.9	700	6.39	34.57
668	6.57	34.573	1.32	7.81	2.374	2.84	56	0.03	40.3	800	5.55	34.56
849	5.35	34.554	1.62	-	2.388	3.00	74	0.01	40.9	1000	4.76	34.56
856	5.28	34.557	1.65	7.85	2.388	3.00	74	0.03	40.9	1200	4.02	34.58
1047	4.61	34.566	1.62	7.85	2.409	3.06	90	0.02	41.2	1500	3.12	34.61
1334	3.54	34.588	1.91	7.94	2.425	2.98	111	0.00	40.8	2000	2.28	34.64
1810	2.51	34.631	2.26	7.92	2.462	2.91	140	0.03	40.2	2500	1.90	34.67
2287	2.04	34.656	2.59	7.93	2.470	2.80	151	0.02	39.1	3000	1.72	34.68
2773	1.76	34.675	2.97	7.94	2.482	2.67	156	0.02	38.2			
3017	1.72	34.675	3.10	7.92	2.487	2.67	156	0.03	37.9			

KH-71-5 Station 52		Latitude 03°00.0'N Longitude 99°59.7'W	Feb. 2, 1972 1953-2304		Depth 3,504 meters	Air Temperature 25.8°C						
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	26.2	33.484	4.84	8.28	2.240	0.20	1	0.00	0.3	0	26.2	33.48
10	26.22	33.485	4.76	8.28	2.237	0.19	1	0.00	0.3	10	26.22	33.49
29	26.28	33.824	4.76	8.28	2.275	0.19	2	0.00	0.3	30	26.26	33.85
48	21.87	34.268	4.64	8.18	2.329	0.74	6	0.12	8.1	50	21.25	34.32
72	15.82	34.869	1.92	8.00	2.358	1.67	16	0.43	21.9	75	15.55	34.89
96	14.50	34.953	1.96	8.00	2.358	1.70	17	0.67	22.5	100	14.40	34.95
144	13.60	34.938	1.19	7.90	2.358	1.97	20	0.01	27.6	150	13.53	34.94
192	13.03	34.914	0.97	7.89	2.353	2.11	23	0.00	29.4	200	12.94	34.91
288	11.22	34.790	0.68	7.82	2.356	2.40	30	0.00	32.5	300	9.99	34.77
383	9.45	34.688	0.32	7.74	2.354	2.73	40	0.00	35.8	400	9.20	34.68
498	8.26	34.646	0.33	7.74	2.366	2.91	48	0.00	39.5	500	8.06	34.64
574	7.39	34.619	0.35	7.72	2.364	3.11	57	0.00	41.5	600	7.17	34.61
669	6.61	34.589	0.56	7.72	2.380	3.10	63	0.01	43.0	700	6.36	34.58
765	5.76	34.563	1.25	7.79	2.380	3.00	70	0.00	40.2	800	5.52	34.56
955	4.77	34.562	1.49	7.79	2.402	3.11	87	0.00	41.7	1000	4.41	34.56
1074	4.39	34.570	1.57	7.80	2.417	3.05	97	0.01	42.0	1200	4.02	34.58
1267	3.84	34.583	1.72	7.81	2.422	3.06	110	0.00	41.3	1500	3.28	34.60
1555	3.16	34.604	1.87	7.82	2.449	3.00	126	0.00	41.9	2000	2.38	34.64
2034	2.33	34.642	2.36	7.86	2.473	2.88	147	0.00	40.0	2500	1.87	34.67
2512	1.86	34.669	2.74	7.89	2.494	2.77	159	0.00	38.8	3000	1.79	34.68
3006	1.79	34.676	2.88	7.89	2.487	2.72	160	0.00	38.4	(3500)	(1.75)	(34.68)
3490	1.75	34.676	2.99	7.89	2.495	2.70	160	0.01	38.2			

() extrapolated value

KH-71-5 Latitude 07°00.6'N Feb. 12-13, 1972 Depth 3,388 meters Air Temperature 27.0°C
 Station 53 Longitude 100°04.5'W 2158-0105

Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	26.2	34.306	4.95	8.23	2.322	0.20	0	0.00	0.2	0	26.2	34.31
10	26.18	34.303	4.94	8.24	2.317	0.23	1	0.01	0.1	10	26.18	34.30
29	25.71	34.326	4.90	8.23	2.313	0.31	1	0.05	0.7	30	25.65	34.33
48	20.07	34.627	2.96	8.05	2.325	1.18	11	0.40	13.8	50	19.50	34.65
72	14.56	34.742	0.60	7.83	2.324	2.19	21	0.33	28.7	75	14.00	34.75
95	12.28	34.738	0.75	7.83	2.330	2.25	27	0.03	30.9	100	12.11	34.73
143	11.15	34.713	1.27	7.86	2.337	2.19	29	0.00	30.1	150	11.06	34.71
191	10.65	34.728	1.02	7.82	2.339	2.29	31	0.01	32.0	200	10.55	34.73
286	9.89	34.709	0.93	7.80	2.348	2.38	34	0.02	34.0	300	9.80	34.71
382	9.19	34.677	0.42	7.74	2.348	2.71	40	0.00	36.9	400	9.02	34.67
478	8.22	34.628	0.08	7.69	2.363	3.08	53	0.02	37.9	500	8.00	34.61
573	7.24	34.595	0.11	7.67	2.364	3.18	61	0.01	40.6	600	7.04	34.59
669	6.52	34.584	0.29	7.68	2.374	3.08	67	0.00	43.1	700	6.35	34.58
764	5.97	34.567	0.30	7.67	2.384	3.22	74	0.00	43.8	800	5.80	34.56
956	4.97	34.569	0.59	7.69	2.400	3.27	92	0.00	45.6	1000	4.62	34.57
991	4.68	34.573	0.71	7.70	2.405	3.30	99	0.01	45.0	1200	3.77	34.59
1182	3.93	34.587	1.05	7.73	2.423	3.21	114	0.02	43.8	1500	3.11	34.61
1468	3.18	34.612	1.39	7.76	2.414	3.13	134	0.00	43.0	2000	2.27	34.65
1945	2.35	34.647	2.11	7.82	2.449	2.90	152	0.00	40.9	2500	1.87	34.67
2419	1.89	34.669	2.55	7.85	2.474	2.81	163	0.02	39.5	3000	1.85	34.67
2898	1.84	34.674	2.61	7.86	2.469	2.76	166	0.02	39.0			
3378	1.88	34.675	2.66	7.85	2.483	2.77	166	0.01	39.0			

KH-71-5 Latitude 09°00.1'N Feb. 12, 1972 Depth 3,580 meters Air Temperature 27.1°C
 Station 54 Longitude 99°59.7'W 0905-1238

Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	27.1	33.572	4.74	8.24	2.277	0.15	4	0.00	0.1	0	27.1	33.57
9	27.08	33.572	4.73	8.24	2.282	0.12	5	0.00	0.2	10	27.05	33.57
28	26.44	33.625	4.64	8.24	2.275	0.19	6	0.02	0.9	30	26.00	33.65
47	17.47	34.725	1.47	7.88	2.341	1.89	19	0.40	25.3	50	16.85	34.74
71	14.35	34.806	0.42	7.81	2.338	2.24	25	0.44	30.0	75	14.20	34.82
94	13.71	34.864	0.40	7.81	2.341	2.11	26	0.41	30.8	100	13.60	34.87
118	13.30	34.886	0.31	-	-	-	-	-	-	150	12.74	34.85
142	12.86	34.860	0.35	7.79	2.341	2.27	28	0.02	32.1	200	12.01	34.82
189	12.19	34.831	0.54	7.80	2.340	2.23	29	0.01	32.1	300	10.73	34.75
285	10.86	34.754	1.06	7.83	2.340	2.25	33	0.01	31.2	400	9.92	34.71
381	10.09	34.716	0.41	7.75	2.352	2.55	38	0.01	34.3	500	8.60	34.64
476	8.91	34.655	0.10	7.69	2.353	2.87	53	0.66	30.5	600	7.13	34.60
572	7.54	34.607	0.04	7.68	2.361	3.18	63	0.50	34.8	700	6.15	34.57
668	6.39	34.578	0.09	7.67	2.378	3.22	75	0.01	43.1	800	5.56	34.57
763	5.76	34.570	0.17	7.67	2.395	3.35	85	0.02	45.1	1000	4.63	34.59
954	4.84	34.586	0.46	7.69	2.407	3.44	99	0.01	46.5	1200	3.84	34.60
1178	3.90	34.594	0.88	7.72	2.413	3.25	114	0.01	46.0	1500	3.09	34.62
1370	3.38	34.608	1.25	7.75	2.427	3.07	131	0.00	44.6	2000	2.26	34.66
1656	2.78	34.627	1.65	7.79	2.455	3.03	147	0.00	43.2	2500	1.86	34.67
2131	2.10	34.663	2.18	7.83	2.472	2.89	162	0.00	40.3	3000	1.84	34.68
2607	1.84	34.671*	2.55	7.86	2.485	2.71	170	0.00	38.8	3500	1.89	34.68
3089	1.84	34.676	2.62	7.85	2.485	2.76	170	0.00	39.0			
3576	1.90	34.676	2.65	7.86	2.495	2.74	170	0.00	39.5			

* interpolated value

KH-71-5 Station 55		Latitude 11°57.8'N Longitude 100°06.4'W		Feb. 11, 1972 1655-2043		Depth 3,400 meters		Air Temperature 27.4°C				
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated Depth	Interpolated Water Temp.	Interpolated Salinity
0	27.8	33.647	4.68	8.24	2.303	0.14	0	0.00	0.2	0	27.8	33.65
9	27.81	33.648	4.66	8.24	2.304	0.09	1	0.00	0.2	10	27.81	33.65
28	27.72	33.688	4.65	8.24	2.292	0.14	1	0.00	0.1	30	27.71	33.69
46	27.66	33.694	4.70	8.24	2.307	0.14	1	0.00	0.3	50	27.65	33.70
70	23.39	34.129	2.45	8.01	2.322	1.19	5	0.32	14.3	75	20.80	34.25
93	15.69	34.749	0.03	7.75	2.347	2.48	23	0.03	29.8	100	15.00	34.78
140	12.96	34.838	0.02	7.75	2.347	2.39	26	0.01	31.6	150	12.75	34.83
187	12.09	34.803	0.01	7.74	2.354	2.49	29	0.01	31.3	200	11.89	34.80
282	10.89	34.748	0.03	7.70	2.356	2.66	35	2.29	21.3	300	10.65	34.73
376	9.41	34.664	0.01	7.67	2.377	2.95	47	1.18	26.0	400	9.07	34.64
471	8.04	34.607	0.01	7.67	2.383	3.13	60	0.99	29.6	500	7.74	34.60
566	7.14	34.586	0.01	7.66	2.378	3.30	69	1.07	34.4	600	6.86	34.58
661	6.39	34.569	0.01	7.66	2.383	3.33	76	0.03	40.5	700	6.10	34.56
756	5.74	34.559	0.04	7.65	2.402	3.43	84	0.02	43.8	800	5.50	34.56
947	4.69	34.566	0.37	7.67	2.410	3.38	100	0.02	46.1	1000	4.44	34.57
990	4.47	34.568	0.50	7.67	2.407	3.43	105	0.01	46.0	1200	3.84	34.58
1181	3.89	34.582	0.67	7.69	2.432	3.32	118	0.01	45.8	1500	3.06	34.61
1468	3.13	34.607	1.31	7.75	2.448	3.13	134	0.00	43.6	2000	2.28	34.65
1945	2.35	34.646	2.49	7.79	2.469	3.04	155	0.00	41.6	2500	1.87	34.67
2424	1.89	34.669	2.36	7.83	2.486	2.82	166	0.00	39.6	3000	1.86	34.65
2906	1.85	34.675	2.47	7.84	2.483	2.75	167	0.01	39.3			
3388	1.89	34.675	2.55	7.83	2.483	2.81	167	0.01	38.7			

KH-71-5 Latitude 14°59.4'N Feb. 10-11, 1972 Depth 3,470 meters Air Temperature 26.4°C
 Station 56 Longitude 99°57.2'W 2300-0238

Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	NO ₃ -N (µgat/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	27.6	33.682	4.72	8.21	2.307	0.18	1	0.01	0.1	0	27.6	33.68
10	27.55	33.670	4.77	8.21	2.278	0.16	1	0.02	0.2	10	27.55	33.67
29	27.24	33.730	4.76	8.21	2.290	0.22	1	0.15	0.2	30	27.15	33.73
48	25.33	33.736	4.17	8.14	2.275	0.58	2	2.21	4.1	50	25.15	33.74
72	22.96	33.958	3.38	8.05	2.305	1.05	7	0.05	13.3	75	22.65	34.01
96	19.20	34.508	0.97	7.84	2.347	1.90	14	0.10	24.8	100	18.00	34.60
120	14.01	34.841	0.10	-	-	-	-	-	-	150	13.07	34.85
144	13.16	34.853	0.08	7.75	2.362	2.39	26	0.13	30.3	200	12.50	34.83
192	12.59	34.835	0.07	7.74	2.378	2.40	27	0.03	31.2	300	11.13	34.77
288	11.29	34.772	0.07	7.71	2.361	2.60	33	0.82	29.6	400	9.86	34.69
384	10.07	34.703	0.06	7.68	2.355	2.75	42	2.01	24.7	500	8.31	34.61
480	8.60	34.625	0.06	7.67	2.361	3.05	55	0.96	27.7	600	7.14	34.58
576	7.36	34.586	0.07	7.65	2.384	3.26	67	1.06	33.0	700	6.43	34.56
671	6.62	34.564	0.07	7.64	2.400	3.28	75	0.38	38.3	800	5.76	34.56
766	6.04	34.559	0.08	7.64	2.401	3.34	81	0.03	42.2	1000	4.72	34.56
957	4.97	34.555	0.13	7.63	2.414	3.44	99	0.03	46.3	1200	3.92	34.58
828	5.58	34.557	0.09	7.64	2.406	3.36	89	0.06	44.2	1500	3.10	34.61
1017	4.63	34.562	0.17	7.65	2.411	3.38	107	0.04	46.5	2000	2.16	34.65
1303	3.60	34.588	0.68	7.69	2.419	3.37	127	0.01	46.0	2500	1.87	34.67
1777	2.54	34.633	1.59	7.76	2.458	3.01	151	0.01	42.3	3000	1.86	34.67
2253	1.92	34.666	2.33	7.82	2.467	2.87	166	0.03	39.8			
2730	1.86	34.675	2.46	7.83	2.494	2.80	167	0.05	39.3			
2968	1.86	34.674	-	-	-	-	-	-	-			
3208	1.90	34.674	2.48	7.82	2.507	2.72	168	0.03	39.5			
3449	1.92	34.674	2.47	7.82	2.494	2.76	168	0.03	39.8			

Hydrographic data of STD-RMS casts
(Equatorial Undercurrent and Off-Chilean Undercurrent)

KH-71-5 CROM #A		Latitude 02°00.5'N Longitude 145°59.8'W	Dec. 6, 1971 1115-1225		Air Temperature 25.5°C			
Depth* (m)	Water Temp.* (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)
0	24.41	35.135	4.53	8.17	2.339	0.67	3	0.41
61	24.29	35.105	4.50	8.18	2.342	0.77	3	0.41
119	24.30	35.110	4.41	8.19	2.365	0.66	5	0.42
155	21.98	34.949	3.74	8.16	2.341	0.92	12	1.32
172	19.18	34.815*	-	-	-	-	-	-
226	12.79	34.873	1.76	7.94	2.354	2.12	27	0.00
262	11.61	34.829	1.65	7.95	2.364	2.03	26	0.00
302	11.16	34.796	1.63	7.93	2.367	2.23	27	0.00
341	10.91	34.788*	-	-	-	-	-	-
413	10.06	34.730	1.67	7.92	2.358	2.22	31	0.00
599	7.31	34.596	0.80	7.80	2.374	2.53	51	0.00

* value read by frequency

() value taken with reversing thermometers attached to the sampler

KH-71-5 CROM #B		Latitude 01°30.4'N Longitude 145°58.8'W	Dec. 6, 1971 1904-2025		Air Temperature 23.9°C			
Depth* (m)	Water Temp.* (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)
0	24.39	35.197	4.62	8.20	2.370	0.66	4	0.40
47	24.36	35.185	4.52	8.20	2.342	0.67	0	0.40
151	22.67	34.953	3.93	8.16	2.330	0.85	5	1.22
183	17.00	34.793	2.53	8.07	2.334	1.47	14	0.00
208	14.08	34.787	1.96	8.01	2.346	1.76	20	0.00
244	12.40	34.874	0.96	7.90	2.371	2.21	24	0.00
280	11.52	34.854	1.45	7.92	2.363	2.16	25	0.00
330	10.96	34.796	1.28	7.91	2.352	2.24	27	0.00
377	10.64	34.782	1.31	7.89	2.347	2.26	28	0.00
452	9.60	34.714	0.87	7.83	2.350	2.51	34	0.00
611 (612)	7.06 (7.03)	34.602	1.29	7.84	2.374	2.78	50	0.00

* value read by frequency

() value taken with reversing thermometers attached to the sampler

KH-71-5 CROM #C		Latitude 01°01.3'N Longitude 146°01.8'W		Dec. 6-7, 1971 2344-0334		Air Temperature 23.9°C		
Depth* (m)	Water Temp.* (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)
0	24.39	35.257	4.64	8.18	2.353	0.69	3	0.43
47	24.41	35.249	4.58	8.18	2.361	0.70	4	1.07
129	23.71	35.047	4.22	8.16	2.365	0.83	9	0.02
158	20.08	34.902	3.35	8.12	2.341	1.05	13	0.00
172	18.52	34.834	2.92	8.08	2.332	1.29	17	0.00
190	15.05	34.768	2.56	8.06	2.339	1.48	17	0.00
222	13.15	34.865	1.34	7.94	2.330	2.15	21	0.00
234	12.31	34.788*	-	-	-	-	-	-
258	11.71	34.827	1.58	7.94	2.346	2.06	24	0.00
359	10.91	34.790	1.24	7.87	2.351	2.34	29	0.00
574 (566)	7.42 (7.56)	34.629	2.47	7.85	2.356	2.91	137	0.00

* value read by frequency

() value taken with reversing thermometers attached to the sampler

KH-71-5 CROM #D		Latitude 00°30.0'N Longitude 146°00.0'W		Dec. 7, 1971 0639-0817		Air Temperature 24.6°C		
Depth* (m)	Water Temp.* (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)
0	24.30	35.242	4.58	8.16	2.370	0.71	4	0.42
28	24.30	35.230	4.56	8.17	2.382	0.77	3	0.41
172	22.57	35.056	3.90	8.15	2.354	0.87	5	0.20
176	17.80	34.871	3.05	8.11	2.344	1.25	11	0.00
190	15.44	35.083	3.06	8.11	2.365	1.14	11	0.00
201	15.22	34.999	3.08	8.10	2.347	1.26	13	0.01
248	12.90	34.793	2.78	8.04	2.360	1.63	21	0.00
316	11.41	34.810	2.34	8.01	2.365	2.30	28	0.00
377	10.82	34.788	1.26	7.87	2.363	1.78	-	0.00
456	9.10	34.689	0.83	7.79	2.363	1.64	23	0.01
592 (589)	7.20 (7.28)	34.584*	-	-	-	-	-	-

* value read by frequency

() value taken with reversing thermometers attached to the sampler

KH-71-5 CROM #E		Latitude 00°02.0'S Longitude 146°01.7'W	Dec. 7, 1971 1103-1235		Air Temperature 24.6°C			
Depth* (m)	Water Temp.* (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)
0	24.47	35.296	4.53	8.19	2.373	0.75	2	0.33
40	24.34	35.258	-	8.17	2.362	0.72	2	0.34
139	20.99	35.578	3.06	8.15	2.371	0.97	4	0.00
155	20.70	35.548	3.07	8.14	-	1.01	1	0.00
165	17.80	35.057	3.00	8.14	-	1.10	10	0.00
176	17.32	35.181	3.03	8.12	2.358	1.14	9	0.00
184	16.87	35.150	3.01	8.13	2.358	1.13	9	0.00
193	16.84	35.230	2.98	8.12	2.358	1.16	8	0.00
254	12.22	34.855	2.65	8.04	2.339	1.68	19	0.00
416	9.42	34.718	0.67	7.84	2.344	2.68	35	0.00
639 (644)	6.65 (6.64)	34.564*	-	-	-	-	-	-

* value read by frequency

() value taken with reversing thermometers attached to the sampler

KH-71-5 CROM #F		Latitude 00°33.7'S Longitude 145°59.8'W	Dec. 7, 1971 2024-2147		Air Temperature 24.4°C			
Depth* (m)	Water Temp.* (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)
0	24.70	35.323	4.64	8.16	2.387	0.69	3	0.34
107	24.29	35.412	4.33	8.16	2.397	0.74	2	0.87
158	21.03	35.618	3.18	8.13	2.401	1.04	3	0.00
183	18.70	35.481	2.91	8.12	2.404	1.07	2	0.00
208	15.91	35.248	2.82	8.09	2.393	1.31	9	0.00
222	14.10	35.034	2.92	8.07	2.391	1.41	13	0.00
266	12.29	34.879	2.77	8.04	2.341	2.00	16	0.00
330	11.66	34.839	2.25	7.99	2.372	1.84	21	0.00
378	11.11	34.808	1.51	7.91	2.350	2.11	26	0.00
498	8.35	34.645	0.89	7.81	2.353	2.74	40	0.00
631 (631)	7.02 (7.04)	34.574*	-	-	-	-	-	-

* value read by frequency

() value taken with reversing thermometers attached to the sampler

Depth* (m)	Water Temp.* (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)
0	24.90	35.358	4.57	8.18	2.352	0.67	2	0.48
43	24.90	35.346	4.60	8.18	2.376	0.67	2	0.48
119	23.98	35.319	4.35	8.17	2.396	0.80	4	0.60
155	20.47	35.619	3.34	8.15	2.429	0.96	4	0.55
172	17.00	35.343	3.12	8.07	2.432	1.39	9	0.00
190	14.04	35.127	2.62	8.07	2.419	1.50	11	0.00
269	11.93	34.868	2.54	8.02	2.356	1.73	19	0.00
369	11.14	34.811	1.51	7.91	2.380	2.21	27	0.00
424	9.46	34.704	0.79	7.80	2.385	2.67	35	0.00
488	8.58	34.657	0.90	7.82	2.385	2.74	41	0.00
595 (605)	7.06 (7.05)	34.587	1.35	7.84	2.353	2.86	49	0.00

* value read by frequency

() value taken with reversing thermometers attached to the sampler

Depth* (m)	Water Temp.* (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)
0	24.84	35.334	4.78	8.17	2.372	0.64	3	0.39
101	24.77	35.315	4.66	8.17	2.373	0.64	1	0.43
139	20.51	35.392	3.52	8.11	2.389	0.99	3	1.92
169	16.89	35.317	2.22	8.03	2.353	1.51	7	0.06
190	14.08	35.053	1.14	7.90	2.350	2.04	16	0.00
222	12.65	34.932	1.09	7.88	2.351	2.15	20	0.00
298	11.34	34.824	1.86	7.92	2.351	2.02	24	0.00
399	10.84	34.792	1.33	7.87	2.341	2.24	28	0.00
445	9.87	34.727	0.93	7.91	2.333	2.50	32	0.00
512	8.47	34.651	0.84	7.78	2.353	2.80	40	0.00
606 (603)	7.24 (7.32)	34.593	1.79	7.85	2.353	2.65	42	0.00

* value read by frequency

() value taken with reversing thermometers attached to the sampler

KH-71-5 CROM #I		Latitude 02°13.1'S Longitude 145°58.6'W	Dec. 8, 1971 0902-1024		Air Temperature 24.2°C			
Depth* (m)	Water Temp.* (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)
0	25.39	35.453	5.35	8.18	2.393	0.68	2	0.21
46	25.34	35.407	4.69	8.19	2.377	0.70	1	0.18
93	25.04	35.383	4.56	8.18	2.371	0.66	2	0.28
115	24.04	35.952	3.99	8.19	2.428	0.68	1	0.87
125	23.71	36.083	3.92	8.20	2.434	0.66	1	0.75
147	21.30	35.950	3.76	8.18	2.431	0.71	0	0.33
165	19.63	35.627	3.36	8.13	2.395	0.94	2	0.70
190	13.79	35.004*	-	-	-	-	-	-
319	11.11	34.814	1.54	7.90	2.344	2.16	34	0.00
445	9.82	34.727	1.09	7.82	2.342	2.49	31	0.00
556 (550)	8.03 (8.04)	34.622*	-	-	-	-	-	-

* value read by frequency
() value taken with reversing thermometers attached to the sampler

KH-71-5 CROM #J		Latitude 02°30.2'S Longitude 146°00.6'W	Dec. 8, 1971 1215-1348		Air Temperature 25.3°C			
Depth* (m)	Water Temp.* (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)
0	25.41	35.371	4.67	8.15	2.368	0.62	3	0.18
72	25.27	35.377	4.72	8.16	2.382	0.66	1	0.18
121	24.30	35.277	4.58	8.13	2.383	0.77	3	0.31
139	23.44	35.652	4.03	8.16	2.414	0.75	1	1.38
158	21.99	35.724	3.75	8.14	2.424	0.81	1	1.88
169	19.51	35.671	1.58	8.15	2.397	0.84	1	0.04
183	15.80	35.192	1.69	7.94	2.376	1.73	11	0.00
226	12.86	34.925*	-	-	-	-	-	-
319	11.32	34.837	1.59	7.92	2.360	2.13	25	0.00
445	9.96	34.736*	-	-	-	-	-	-
560 (561)	8.11 (8.06)	34.644	0.66	7.75	2.375	2.90	43	0.00

* value read by frequency
() value taken with reversing thermometers attached to the sampler

Depth* (m)	Water Temp.* (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)
KH-71-5 Latitude 02°59.8'S Dec. 8, 1971 Air Temperature 25.2°C GROM #K Longitude 146°01.0'W 2120-2247								
0	25.40	35.431	4.74	8.12	2.391	0.48	1	0.23
65	25.36	35.403	4.71	8.19	2.388	0.67	1	0.20
97	24.41	35.330	4.56	8.14	2.385	0.76	2	0.31
115	24.11	35.329	4.54	8.17	2.388	0.76	3	0.42
143	20.74	35.586	3.64	8.13	2.400	0.98	3	2.09
158	19.90	35.670	3.56	8.14	2.410	0.88	2	0.05
176	16.55	35.301	2.15	8.03	2.368	1.50	8	0.05
201	14.96	35.080*	-	-	-	-	-	-
222	13.18	34.955	0.54	7.88	2.342	2.27	21	0.00
431	9.64	34.734	0.46	7.80	2.360	2.74	35	0.00
560 (560)	7.60 (7.58)	34.620	0.94	7.81	2.356	2.78	43	0.13

* value read by frequency

() value taken with reversing thermometers attached to the sampler

Depth* (m)	Water Temp.* (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)
KH-71-5 Latitude 02°57.1'S Jan. 31, 1972 Air Temperature 24.6°C GROM #L Longitude 100°03.7'W 1317-1430								
0	24.79	34.764	4.84	8.14	2.350	0.83	17	0.22
26	24.38	34.750	4.85	8.14	2.353	0.87	22	0.22
57	16.41	34.909	3.42	8.10	2.369	1.40	20	0.17
94	13.42	34.953	2.16	8.02	2.371	1.81	28	0.14
142	13.06	34.940	1.73	7.98	2.356	1.96	28	0.02
189	12.79	34.922	1.79	7.98	2.318	1.95	31	0.01
236	12.50	34.903	1.52	7.96	2.337	2.06	32	0.00
283	12.29	34.896	1.30	7.94	2.356	2.15	31	0.00
374	11.86	34.861	0.32	7.82	2.353	2.52	36	0.02
468	9.17	34.714	0.24	7.78	2.359	2.96	50	0.02
589 (587)	7.58 (7.59)	34.615*	-	-	-	-	-	-

* value read by frequency

() value taken with reversing thermometers attached to the sampler

Depth* (m)	Water Temp.* (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)
KH-71-5 Latitude 02°29.6'S Jan. 31, 1972 Air Temperature 24.6°C CROM #M Longitude 99°59.3'W 2052-2206								
0	24.65	34.788	4.87	8.14	2.358	0.92	6	0.22
25	24.65	34.783	4.86	8.15	2.350	0.91	6	0.22
61	15.21	34.973	2.59	8.03	2.358	1.72	14	0.37
94	13.36	34.956	2.04	8.01	2.358	1.82	19	0.02
144	12.86	34.934	1.76	7.96	2.359	1.97	20	0.04
189	12.61	34.909	1.15	7.91	2.354	2.13	24	0.00
236	13.38	34.895	0.90	7.87	2.361	2.25	26	0.00
283	12.20	34.883	0.62	7.85	2.354	2.42	27	0.02
378	11.54	34.841	0.28	7.78	2.354	2.60	31	0.01
472	9.57	34.728	0.44	7.76	2.354	2.82	37	0.00
618 (618)	7.38 (7.40)	34.633	0.56	7.77	2.353	3.08	51	0.02

* value read by frequency
() value taken with reversing thermometers attached to the sampler

Depth* (m)	Water Temp.* (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)
KH-71-5 Latitude 01°57.5'S Feb. 1, 1972 Air Temperature 24.3°C CROM #N Longitude 99°57.5'W 0053-0158								
0	24.61	34.850	4.87	8.13	2.353	0.94	6	0.23
26	24.61	34.843	4.83	8.13	2.368	0.95	6	0.21
57	18.27	34.971	3.74	8.05	2.378	1.52	11	0.47
94	14.12	34.986	1.62	7.95	2.368	1.97	18	0.75
144	12.83	34.922	1.75	7.96	2.365	1.96	21	0.01
189	12.59	34.908	1.35	7.92	2.361	2.11	23	0.00
236	12.34	34.889	1.53	7.92	2.365	2.08	23	0.02
283	12.25	34.886	1.10	7.88	2.363	2.23	24	0.00
378	11.38	34.833	0.16	7.76	2.361	2.69	31	0.00
472	9.85	34.743	0.29	7.73	2.365	2.82	37	0.04
597 (600)	7.65 (7.64)	34.637	0.46	7.72	2.371	3.13	50	0.04

* value read by frequency
() value taken with reversing thermometers attached to the sampler

Depth* (m)	Water Temp.* (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)
0	24.65	34.889	4.85	8.15	2.364	0.83	4	0.21
28	24.65	34.884	4.86	8.15	2.360	0.81	4	0.18
57	20.28	34.869	4.06	8.10	2.363	1.23	6	0.25
94	15.49	34.987	1.90	7.97	2.368	1.88	15	0.62
144	13.11	34.957	1.11	7.91	2.360	2.21	20	0.01
191	12.41	34.891	1.77	7.95	2.361	2.00	21	0.02
236	12.32	34.885	1.59	7.93	2.358	1.99	22	0.00
283	12.25	34.882	1.41	7.92	2.360	2.03	23	0.01
378	10.82	34.802	0.23	7.77	2.360	2.73	32	0.02
472	8.58	34.665	0.72	7.78	2.358	2.89	41	0.02
597 (599)	7.27 (7.26)	34.598	1.14	7.79	2.380	2.88	46	0.03

* value read by frequency

() value taken with reversing thermometers attached to the sampler

Depth* (m)	Water Temp.* (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)
0	24.45	34.909	4.92	8.14	2.368	0.55	15	0.19
28	24.22	34.906	4.84	8.15	2.365	0.78	26	0.19
65	20.15	35.004	4.05	8.10	2.368	1.22	17	0.27
90	15.23	34.978	1.68	7.93	2.368	1.95	27	0.99
133	12.57	34.914	2.10	7.97	2.365	1.80	28	0.00
184	12.40	34.888	1.81	7.94	2.360	1.92	36	0.00
236	12.27	34.880	1.35	7.90	2.358	2.05	40	0.00
283	12.25	34.882	1.26	7.89	2.360	2.10	37	0.00
378	10.98	34.815	0.36	7.77	2.363	2.41	42	0.00
472	8.47	34.660	0.67	7.75	2.370	2.83	56	0.00
619 (624)	6.90 (6.90)	34.591	1.25	7.78	2.374	2.82	63	0.00

* value read by frequency

() value taken with reversing thermometers attached to the sampler

Depth* (m)	Water Temp.* (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)
KH-71-5 Latitude 00°27.9'S Feb. 1, 1972 Air Temperature 25.2°C CROM #Q Longitude 99°57.6'W 1233-1345								
0	24.43	34.875	4.83	8.15	2.353	0.79	4	0.21
40	22.89	34.802	4.65	8.17	2.353	0.80	4	0.22
61	21.58	34.832	4.35	8.11	2.353	0.88	5	0.33
90	16.60	35.198	2.02	8.01	2.371	1.63	11	0.36
137	14.10	35.037	2.38	8.03	2.366	1.59	14	0.03
170	13.00	34.947	2.38	8.01	2.366	1.67	18	0.02
226	12.54	34.895	2.19	7.99	2.364	1.77	21	0.01
283	12.15	34.887	1.66	7.93	2.364	1.99	22	0.03
378	10.39	34.775	0.69	7.77	2.353	2.57	32	0.00
472	8.64	34.671	0.86	7.74	2.368	2.78	42	0.02
587 (582)	6.97 (6.97)	34.617	1.30	7.80	2.366	2.74	48	0.01

* value read by frequency

() value taken with reversing thermometers attached to the sampler

Depth* (m)	Water Temp.* (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)
KH-71-5 Latitude 00°00.3'N Feb. 1, 1972 Air Temperature 24.5°C CROM #R Longitude 100°00.2'W 2022-2135								
0	24.16	34.797	4.79	8.15	2.358	0.73	21	0.19
14	23.97	34.782	4.79	8.16	2.371	0.72	17	0.35
28	23.28	34.730	4.69	8.17	2.357	0.74	23	0.18
65	21.98	34.794	4.26	8.16	2.356	0.83	22	0.19
105	17.93	35.184	2.50	8.06	2.360	1.40	31	0.62
144	14.54	35.000	2.44	8.04	2.362	1.57	42	0.03
177	13.33	34.960	2.56	8.03	2.359	1.57	36	0.00
283	12.32	34.914	2.06	7.98	2.362	1.71	43	0.01
385	10.53	34.779	0.34	7.76	2.368	2.58	52	0.00
474	8.42	34.656	0.49	7.74	2.376	2.93	61	0.00
612 (610)	6.84 (6.82)	34.570*	-	-	-	-	-	-

* value read by frequency

() value taken with reversing thermometers attached to the sampler

KH-71-5		Latitude	00°30.2'N	Feb. 2, 1972		Air Temperature 24.5°C		
CROM #S		Longitude	99°57.1'W	0422-0518				
Depth* (m)	Water Temp.* (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)
0	24.0	34.724	4.76	8.16	2.365	0.72	14	0.18
19	23.86	34.704	4.81	8.17	2.367	0.70	21	0.18
47	22.66	34.661	4.45	8.17	2.367	0.74	11	0.23
70	19.90	34.942	4.77	8.11	2.363	1.09	19	0.61
93	15.57	35.011	2.37	8.03	2.363	1.50	22	0.09
139	13.60	34.917	2.30	8.02	2.367	1.64	29	0.04
184	12.69	34.892	2.16	7.98	2.365	1.78	31	0.02
273	12.39	34.887	1.49	7.91	2.365	2.05	32	0.03
364	10.79	34.795	0.35	7.77	2.363	2.58	40	0.02
455	9.01	34.687	0.45	7.75	2.365	2.81	50	0.01
547	7.66	34.615	0.83	7.76	2.369	2.82	57	0.03

KH-71-5		Latitude	01°00.0'N	Feb. 2, 1972		Air Temperature 25.3°C		
CROM #T		Longitude	99°58.1'W	0802-0852				
Depth* (m)	Water Temp.* (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)
0	25.2	34.277	4.86	8.21	2.318	0.44	7	0.07
19	24.83	34.312	4.89	8.21	2.327	0.49	11	0.08
47	23.71	34.636	4.70	8.18	2.342	0.73	9	0.17
70	18.52	34.841	3.10	8.08	2.346	1.28	17	0.58
94	16.27	34.879	2.21	8.01	2.347	1.59	18	0.87
141	13.26	34.911	1.66	7.95	2.364	1.88	24	0.00
189	12.60	34.895	1.65	7.95	2.365	1.96	25	0.00
286	12.12	34.871	0.71	7.84	2.347	2.34	29	0.00
383	10.20	34.754	0.24	7.74	2.355	2.66	38	0.00
477	8.54	34.661	0.55	7.75	2.360	2.87	48	0.00
571	7.52	34.608	0.78	7.76	2.364	2.89	51	0.00

KH-71-5 CROM #U		Latitude 01°30.0'N Longitude 100°00.7'W		Feb. 2, 1972 1110-1200		Air Temperature 25.6°C		
Depth* (m)	Water Temp.* (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)
0	25.5	34.050	4.85	8.24	2.328	0.36	7	0.03
19	24.98	34.135	4.84	8.23	2.332	0.44	7	0.05
47	23.57	34.610	4.67	8.19	2.334	0.69	4	0.16
70	21.72	34.537	4.01	8.17	2.332	0.81	7	0.27
94	15.99	34.841	2.36	8.03	2.361	1.59	14	0.41
142	13.15	34.920	1.67	7.96	2.348	1.83	19	0.00
190	12.48	34.892	1.52	7.94	2.361	1.99	23	0.01
286	12.04	34.863	0.55	7.81	2.363	2.38	29	0.01
382	9.74	34.725	0.22	7.74	2.379	2.75	39	0.00
478	8.48	34.658	0.49	7.75	2.365	2.83	46	0.02
572	7.77	34.622	0.63	7.75	2.356	2.92	49	0.00

KH-71-5 CROM #V		Latitude 02°00.0'N Longitude 100°05.8'W		Feb. 2, 1972 1430-1510		Air Temperature 25.8°C		
Depth* (m)	Water Temp.* (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)
0	26.0	33.710	4.83	8.27	2.285	0.19	19	0.00
19	25.88	33.697	4.79	8.27	2.290	0.20	29	0.01
47	20.62	34.462	4.26	8.13	2.328	0.89	21	0.13
71	15.87	34.840	2.44	8.04	2.355	1.54	33	0.36
94	14.14	34.975	1.89	7.98	2.369	1.76	33	0.07
138	12.98	34.919	1.68	7.94	2.377	1.90	41	0.00
190	12.59	34.900	1.56	7.94	2.355	1.95	44	0.00
285	11.53	34.812	0.67	7.83	2.360	2.32	46	0.01
381	9.66	34.711	0.28	7.75	2.369	2.73	57	0.00
476	8.26	34.638	0.53	7.75	2.362	2.94	63	0.00
570	7.46	34.616	0.56	7.74	2.375	2.98	70	0.00

Depth* (m)	Water Temp.* (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)
KH-71-5 Latitude 32°59.6'S Jan. 19, 1972 Air Temperature 15.5°C CHIL #A Longitude 71°57.9'W 1935-2030								
0	15.71	34.238	5.87	8.20	2.332	0.95	21	0.20
33	12.80	34.252	4.80	8.09	2.326	1.58	31	0.51
56	11.20	34.232	3.68	7.99	2.332	2.02	25	0.17
83	11.46	34.594	1.42	7.77	2.353	2.91	33	0.40
105	11.11	34.627	0.80	7.73	2.354	2.94	50	0.24
199	10.62	34.669	0.32	7.71	2.345	3.03	41	0.01
256	9.71	34.567	0.69	7.71	2.353	2.95	41	0.22
315	9.28	34.586	0.61	7.71	2.358	3.04	39	0.23
491	7.18	34.450	1.91	7.79	2.358	2.82	48	0.19
688	5.46	34.333	3.80	7.93	2.358	2.36	50	0.21
1007 (1017)	3.98 (3.98)	34.431	2.83	7.86	2.368	2.94	77	0.02

* value read by frequency

() value taken with reversing thermometers attached to the sampler

Depth* (m)	Water Temp.* (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)
KH-71-5 Latitude 33°00.0'S Jan. 20, 1972 Air Temperature 16.7°C CHIL #B Longitude 73°00.0'W 0156-0339								
0	17.45	34.300	5.72	8.24	2.352	0.78	13	0.30
27	17.45	34.306*						
49	16.87	34.316*						
75	11.52	34.344*						
97	11.25	34.478*						
195	9.80	34.550*						
296	8.69	34.516*						
393	6.99	34.378*						
577	5.48	34.302*						
787	4.59	34.375*						
1011	3.84	34.454*						

* value read by frequency

KH-71-5 CHIL #C		Latitude Longitude	33°03.3'S 73°54.3'W	Jan. 20, 1972 0855-1046	Air Temperature 17.5°C				
Depth* (m)	Water Temp.* (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	
0	18.02	34.182	5.65	8.25	2.342	0.53	3	0.05	
30	17.98	34.176	5.68	8.25	2.324	0.53	3	0.04	
60	12.72	34.225	5.03	8.10	2.330	1.44	6	0.69	
83	10.98	34.181	4.01	7.99	2.317	1.90	10	0.04	
105	10.82	34.352	2.18	7.81	2.339	2.46	17	0.03	
195	9.12	34.448	1.51	7.77	2.319	2.73	23	0.01	
296	7.88	34.454	1.36	7.75	2.323	2.89	25	0.01	
393	6.49	34.355*	1.98	7.79	2.323	2.78	26	0.01	
584	5.16	34.292	4.44	7.97	2.322	2.27	23	0.00	
783	4.28	34.375	3.31	7.88	2.344	2.76	48	0.00	
1011 (1017)	3.66 (3.65)	34.478*	2.54	7.83	2.383	2.89	65	0.01	

* value read by frequency
() value taken with reversing thermometers attached to the sampler

KH-71-5 CHIL #D		Latitude Longitude	33°02.3'S 75°01.7'W	Jan. 20, 1972 1541-1715	Air Temperature 20.5°C				
Depth* (m)	Water Temp.* (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)	
0	18.68	33.895	5.49	8.25	2.314	0.19	17	0.00	
23	18.52	33.885	5.50	8.26	2.311	0.27	18	0.01	
60	15.22	34.002	6.27	8.28	2.311	0.37	15	0.01	
87	13.45	34.154*	-	-	-	-	-	-	
128	12.29	34.074	5.69	8.21	2.310	0.79	23	0.05	
195	10.16	34.172	4.03	8.03	2.316	1.74	29	0.01	
296	8.49	34.406	2.08	7.83	2.325	2.54	34	0.01	
393	7.11	34.361*	-	-	-	-	-	-	
588	5.45	34.301	4.40	7.99	2.322	2.08	35	0.00	
782	4.52	34.340	3.67	7.92	2.332	2.41	54	0.01	
1033 (1033)	3.73 (3.72)	34.474	2.54	7.84	2.378	2.81	88	0.00	

* value read by frequency
() value taken with reversing thermometers attached to the sampler

Depth* (m)	Water Temp.* (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)
KH-71-5 Latitude 32°55.5'S Jan. 21, 1972 Air Temperature 18.6°C CHIL #E Longitude 76°00.0'W 0220-0349								
0	18.81	33.979*			(See Stn. 39)			
30	18.14	33.784*						
49	16.32	34.043*						
79	14.08	33.968*						
98	12.95	33.970*						
197	9.95	34.146*						
295	8.91	34.424*						
393	7.61	34.386*						
590	5.50	34.270*						
787	4.51	34.287*						
1014	3.84	34.433*						

* value read by frequency

Depth* (m)	Water Temp.* (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)
KH-71-5 Latitude 32°54.0'S Jan. 21, 1972 Air Temperature 20.6°C CHIL #F Longitude 78°01.9'W 1228-1402								
0	20.15	34.280	5.32	8.25	2.332	0.27	18	0.01
27	19.94	34.277	5.34	8.25	2.343	0.32	29	0.00
49	18.23	34.237	5.53	8.27	2.340	0.30	17	0.00
75	14.53	34.135	5.85	8.27	2.328	0.41	19	0.20
97	12.43	34.060	5.43	8.21	2.319	0.80	17	0.15
195	11.05	34.606	0.31	7.70	2.345	2.91	45	0.01
296	10.66	34.660	0.11	7.66	2.344	3.00	52	0.01
393	10.05	34.647	0.15	7.67	2.355	3.02	46	0.00
700	5.77	34.301	4.34	7.97	2.339	2.20	36	0.00
787	5.20	34.291	4.39	7.98	2.339	2.16	41	0.00
1011 (1008)	4.14 (4.14)	34.389	3.05	7.86	2.356	2.69	69	0.00

* value read by frequency

() value taken with reversing thermometers attached to the sampler

KH-71-5 CHIL #G		Latitude	34°54.2'S	Jan. 21-22, 1972		Air Temperature		20.2°C
		Longitude	79°59.5'W	2135-0049				
Depth* (m)	Water Temp.* (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)
0	21.58	34.597	5.22	8.23	2.357	0.30	23	0.01
23	20.22	34.438	5.34	8.24	2.355	0.40	17	0.00
49	19.24	34.420	5.47	8.25	2.354	0.34	8	0.00
83	14.94	34.330	6.27	8.28	2.333	0.44	16	0.03
120	13.63	34.225	5.60	8.23	2.337	0.67	10	0.35
187	11.05	34.041	5.26	8.16	2.312	1.14	13	0.01
292	9.66	34.509	0.74	7.70	2.327	2.96	31	0.00
319	9.03	34.437*	1.05	7.73	2.322	2.86	28	0.00
370	7.81	34.401	2.22	7.83	2.322	2.60	23	0.01
670	5.07	34.273	2.65	8.03	2.330	2.08	27	0.00
1055 (1045)	3.64 (3.63)	34.445	3.08	7.88	2.376	2.70	63	0.01

* value read by frequency

() value taken with reversing thermometers attached to the sampler

KH-71-5 CHIL #H		Latitude	33°02.0'S	Jan. 22, 1972		Air Temperature		22.0°C
		Longitude	81°57.1'W	0915-1105				
Depth* (m)	Water Temp.* (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)
0	22.85	34.777	5.11	8.20	2.347	0.30	1	0.00
23	21.03	34.744	5.25	8.22	2.364	0.28	1	0.00
45	19.52	34.707	5.47	8.24	2.343	0.34	1	0.01
75	15.08	34.295	6.55	8.30	2.331	0.33	1	0.02
98	14.26	34.293	5.90	8.25	2.332	0.50	1	0.19
199	11.20	34.106	5.18	8.16	2.309	1.07	2	0.02
258	9.73	34.229	4.33	8.06	2.329	1.59	6	0.01
315	8.44	34.261	4.14	8.03	2.337	1.76	8	0.01
498	5.86	34.291	4.97	8.03	2.336	2.00	12	0.00
738	4.78	34.282	4.68	7.99	2.321	2.30	22	0.00
1003 (999)	3.76 (3.76)	34.406*	-	-	-	-	-	-

* value read by frequency

() value taken with reversing thermometers attached to the sampler

Depth* (m)	Water Temp.* (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)	SiO ₂ -Si (µgat/l)	NO ₂ -N (µgat/l)
KH-71-5 CHIL #1		Latitude 32°29.1'S Longitude 84°00.0'W	Jan. 22-23, 1972 2356-0122		Air Temperature 21.6°C			
0	22.26	34.457*	(See Stn. 40)					
30	19.24	34.328*						
49	15.82	34.122*						
79	14.15	34.251*						
98	13.61	34.204*						
197	10.88	34.027*						
295	9.11	34.374*						
393	7.56	34.354*						
590	5.44	34.253*						
787	4.53	34.266*						
1033	3.66	34.419*						

* value read by frequency