

Oceanographic Data
of
KH-68-4 (Southern Cross Cruise) of The HakuhōMaru

Ocean Research Institute
University of Tokyo
1970

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KH-68-4 Station 2		Latitude 30°02.1'N Longitude 170°03.1'W		November 22,1968 1540-2240		Depth 5,400 meters		Air Temperature 20.6°C					
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved (ml/l)	O ₂	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	35.091	5.14	8.26	2.31	0.13	13	< 0.03	0.08	0	21.7	35.09	
7	.78	.095	.14	.25	.29	.06	10	.00	< .02	10	.78	.10	
21	.77	.095	.11	.26	.38	.11	13	.00	< .02	30	.79	.10	
35	.79	.102	.15	.25	.38	.10	10	.00	< .02	50	.79	.10	
53	.79	.099	.13	.26	.38	.03	13	.00	< .02	75	17.75	34.80	
70	19.37	34.851	.65	.26	.33	.14	10	.09	.05	100	15.90	.70	
105	15.66	.696	.15	.22	.32	.44	15	.25	1.72	150	14.78	.60	
140	14.94	.652	.15	.20	.35	.55	14	.09	1.17	200	13.95	.54	
210	13.66	.521	.19	.19	.34	.56	14	.00	3.02	300	11.45	.34	
278	12.06	.386	.06	.14	.34	.70	18	.00	5.28	400	10.00	.21	
350	10.86	.270	4.80	.12	.34	1.01	25	.05	12.4	500	7.70	.07	
422	9.60	.184	.60	.05	.34	.32	33	.09	14.6	600	6.18	.02	
496	7.81	.073	.00	7.96	.35	.92	54	.05	18.0	700	4.72	.08	
574	6.55	.029	3.39	.88	.35	2.42	60	.05	22.1	800	.12	.19	
736	4.46	.117	1.48	.69	.40	.99	101	.10	34.2	1000	3.48	.36	
916	3.72	.290	0.63	.66	.42	3.04	129	< .03	36.2	1200	.04	.48	
823	3.99	.206	.99	.65	.41	2.90	120	.00	36.2	1500	2.53	.56	
1077	3.30	.420	.54	.62	.44	3.16	146	.10	37.2	2000	1.93	.62	
1507	2.51	.561	1.41	.71	.47	2.88	165	.00	41.0	2500	.63	.65	
1930	1.99	.615	.82	.73	.47	.88	177	.00	40.4	3000	.54	.67	
2359	.70	.650	2.46	.79	.49	3.06	168	.11	39.2	3500	.48	.68	
2781	.57	.670	.80	.82	.49	.16	161	.09	41.0	4000	.46	.69	
3206	.51	.679	.86	.93	.53	2.68	159	.07	36.6	4500	.51	.69	
3628	.46	.685	3.10	.93	.51	.54	152	.20	36.8				
4059	.46	.691	.47	.85	.49	.77	156	.07	37.3				
4494	.51	.694	.25	.95	.56	.24	158	.34	36.3				

KH-68-4 Latitude 26°54.8'N November 24, 1968 Depth 4,520 meters Air Temperature 21.6°C
 Station 5 Longitude 169°58.6'W 1030-1535

Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved (ml/l)	O ₂	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	35.116	4.84	8.24	2.36	0.14	9	0.03	< 0.02	0	23.9	35.12	
8	24.00	.099	.87	.25	.37	.11	8	.05	< .02	10	24.00	.10	
24	.03	.066	.86	.24	.35	.15	8	.02	< .02	30	.03	.07	
40	.02	.103	.85	.24	.37	.25	7	.02	< .02	50	23.95	.08	
59	23.71	.044	.88	.24	.37	.00	8	.12	< .02	75	21.50	.10	
79	20.64	.115	5.19	.23	.37	.17	9	.07	< .02	100	19.45	.06	
116	18.62	34.982	4.93	.21	.37	.26	10	.17	0.76	150	17.15	34.86	
152	17.04	.851	4.94	.21	.35	.29	11	.09	1.72	200	16.00	.71	
226	15.25	.646	5.02	.19	.33	.49	12	.12	3.91	300	13.06	.41	
300	13.06	.407	4.73	.13	.33	.87	15	.12	7.20	400	10.80	.24	
375	11.32	.277	.59	.12	.32	1.10	22	.08	9.67	500	8.10	.07	
451	9.50	.146	.25	.02	.31	.32	32	.07	16.1	600	6.18	.02	
530	7.36	.038	3.36	7.91	.34	.69	50	.02	27.0	700	4.97	.09	
610	6.00	.033	2.48	.79	.35	2.39	69	.03	28.0	800	.32	.18	
774	4.44	.155	1.03	.65	.40	.88	106	.03	32.4	1000	3.71	.36	
946	3.82	.309	0.69	.63	.43	3.05	123	.05	30.8	1200	.26	.46	
1074	.54	.413	0.76	.66	.41	2.85	135	.03	38.2	1500	2.65	.54	
1342	2.94	.514	1.21	.69	.45	3.05	153	.03	40.0	2000	.01	.61	
1796	.21	.593	.79	.74	.46	2.68	171	.02	41.0	2500	1.70	.65	
2256	1.81	.633	2.41	.78	.46	.67	179	.06	40.4	3000	.57	.67	
2707	.64	.660	.79	.86	.48	.68	173	.09	39.0	3500	.48	.68	
3161	.53	.672	3.11	.84	.47	.57	171	.03	38.2	4000	.46	.69	
3625	.47	.680	3.22	.91	.50	.49	167	.07	37.6				
4069	.46	.689	3.34	.92	.51	.53	164	.04	36.8				

KH-68-4 Station 8		Latitude 23°58.5'N Longitude 169°56.8'W		November 25, 1968 1340-1843		Depth 4,640 meters		Air Temperature 25.4°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	25.5	34.946	4.73	8.22	2.35	0.13	7	0.00	0.05	0	25.5	34.95
9	.52	.935	.74	.22	.37	.13	7	.01	.05	10	.52	.94
26	.47	.941	.75	.22	.37	.15	6	.07	.00	30	.45	.94
44	.38	.961	.75	.22	.36	.13	6	.00	.03	50	.20	.98
65	24.06	35.113	.98	.21	.38	.09	6	.03	.02	75	22.70	35.16
87	21.38	.174	.82	.19	.38	.24	7	.16	.00	100	20.38	.15
131	18.72	.013	.88	.19	.37	.35	8	.09	1.35	150	19.00	34.97
176	16.83	34.833	.74	.15	.35	.46	8	.04	2.53	200	16.09	.76
267	14.33	.537	.64	.11	.35	.76	15	.05	5.20	300	13.32	.43
359	11.34	.269	.38	.01	.33	1.22	22	.03	12.9	400	10.12	.19
447	8.83	.126	3.63	7.94	.36	1.70	39	.04	14.6	500	7.70	.10
536	7.07	.103	2.58	.78	.34	2.35	59	.10	23.4	600	6.19	.14
623	5.90	.156	1.67	.68	.36	2.81	84	.04	30.6	700	5.02	.22
711	4.91	.237	.14	.63	.39	3.08	101	.00	34.8	800	4.46	.32
892	4.20	.407	.00	.62	.41	.13	120	.08	38.0	1000	3.80	.46
1079	3.52	.481	.20	.66	.42	.12	134	.03	39.3	1200	3.24	.52
1180	3.26	.514	.40	.68	.45	.27	140	.01	41.2	1500	2.61	.57
1450	2.73	.560	.61	.70	.46	.17	158	.03	40.4	2000	1.94	.62
1902	2.10	.615	2.24	.72	.46	2.96	173	.12	39.5	2500	1.70	.65
2359	1.75	.647	.57	.74	.46	2.77	178	.02	39.3	3000	1.54	.67
2814	.60	.665	.79	.86	.52	.60	172	.02	37.2	3500	1.48	.68
3248	.51	.676	3.17	.79	.47	.67	169	.07	36.2	4000	1.45	.69
3702	.46	.685	.29	.87	.50	.51	166	.02	38.1	4500	1.46	.70
4140	.44	.690	.46	.87	.50	.41	161	.04	35.1			
4598	.46	.698	.76	.82	.47	.45	156	.07	37.4			

KH-68-4 Latitude 21°00.8'N November 26-27, 1968 Depth 4270 meters Air Temperature 25.4°C
 Station 11 Longitude 170°02.1'W 1945-0210

Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved (ml/l)	O ₂	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	34.593	4.68	8.26	2.31	0.07	9	0.04	0.0	0	26.8	34.59	
10	26.96	.586	.69	.26	.35	.14	8	.02	0.0	10	.96	.59	
28	27.00	.609	.69	.25	.34	.16	8	.00	0.0	30	27.00	.61	
47	26.63	.798	.88	.24	.38	.07	8	.04	0.0	50	25.10	.85	
70	22.92	35.075	5.07	.25	.38	.01	9	.02	0.0	75	22.60	35.09	
94	21.96	.122	4.78	.24	.38	.22	10	.09	0.0	100	21.29	.13	
140	20.93	.189	.68	.23	.38	.23	10	.15	0.60	150	20.68	.18	
187	19.43	.107	.67	.22	.37	.33	11	.04	1.41	200	18.96	.05	
281	14.36	34.522	.57	.15	.35	.72	14	.04	6.86	300	13.15	34.43	
376	9.54	.154	3.96	.01	.33	1.62	31	.08	17.0	400	8.92	.09	
472	7.43	.121	2.64	7.87	.36	2.34	53	.02	24.4	500	6.96	.07	
566	5.91	.181	1.54	.77	.38	.88	74	< 0.01	28.9	600	5.57	.24	
661	.07	.311	.27	.72	.41	3.06	94	.04	35.0	700	4.90	.36	
754	4.68	.422	.25	.73	.42	.18	97	.00	34.3	800	.53	.45	
943	.17	.490	.41	.76	.44	.05	106	.02	39.1	1000	.02	.51	
1140	3.65	.526	.57	.75	.44	.14	116	.04	38.8	1200	3.51	.53	
952	4.18	.499	.34	.78	.43	2.84	110	< 0.01	41.2	1500	2.82	.58	
1223	3.45	.537	.58	.78	.45	3.21	121	.02	41.4	2000	.06	.62	
1682	2.64	.594	2.04	.77	.47	.05	142	.06	41.0	2500	1.72	.65	
2144	1.93	.634	.44	.79	.47	.07	156	.04	40.5	3000	.53	.67	
2588	.67	.654	.68	.94	.55	2.75	152	< 0.01	41.0	3500	.48	.68	
3042	.53	.677	3.20	.84	.49	.67	167	.04	38.6	4000	.42	.69	
3496	.48	.680	.23	.90	.54	.42	146	.07	38.5	4500			
3938	.42	.688	.50	.92	.53	.34	141	.04	37.0				
4402	.43	.689	.79	.86	.50	.42	138	.02	35.0				

KH-68-4 Latitude 17°59.0'N November 27-28, 1968 Depth 5220 meters Air Temperature 26.7°C
 Station 13 Longitude 170°02.8'W 2157-0328

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	34.369	4.64	8.23	2.37	0.15	9	0.00	< 0.01	0	27.6	34.37
9	.66	.362	.65	.23	.33	.13	6	.04	.05	10	.66	.36
27	.69	.361	.65	.24	.34	.12	6	.00	0.00	30	.68	.36
44	.68	.363	.65	.25	.33	.10	6	.00	0.00	50	.68	.37
66	.68	.367	.66	.16	.31	.00	7	.00	0.00	75	.60	.37
87	25.97	.822	5.06	.23	.36	.18	6	.05	0.02	100	26.85	.95
129	23.68	35.079	4.86	.23	.37	.07	9	.00	.03	150	23.05	35.10
170	20.93	.085	.48	.19	.38	.19	8	.10	.41	200	19.20	34.94
253	15.82	34.650	.20	.13	.35	.62	13	.05	4.85	300	12.65	.41
336	10.56	.246	3.31	7.96	.35	1.69	31	.04	14.7	400	8.10	.16
419	7.68	.163	2.39	.83	.36	2.13	50	.04	24.1	500	6.66	.27
502	6.62	.271	1.30	.72	.37	.69	65	< .01	29.7	600	5.88	.36
589	5.95	.356	.08	.70	.39	.86	78	.04	33.3	700	.25	.94
677	.35	.423	.06	.70	.41	.98	82	.05	38.2	800	4.90	.98
857	4.70	.505	.18	.71	.44	3.06	94	.02	39.4	1000	.14	.53
1051	3.94	.533	.45	.74	.46	2.91	114	.02	41.4	1200	3.58	.55
1296	.38	.560	.67	.75	.46	.96	122	.04	41.6	1500	2.88	.57
1566	2.72	.562	.86	.75	.48	.91	136	.08	41.4	2000	.14	.62
2010	.12	.629	2.41	.81	.49	.68	150	.00	40.5	2500	1.74	.65
2463	1.76	.652	.73	.83	.49	.68	154	.04	38.1	3000	.56	.67
2910	.59	-	-	-	-	-	-	-	-	3500	.48	.68
3358	.50	.681	3.26	.85	.46	.48	154	.05	35.2	4000	.47	.69
3810	.47	.615	.28	.94	.53	.28	147	.09	35.4	4500	.43	.70
4243	.47	.693	.53	.95	.54	.34	150	.09	36.6	5000	.41	.70
4700	.41	.699	.93	.98	.48	.68	140	.08	35.5			
5161	.40	.705	4.13	.94	.53	.55	132	.08	34.0			

KH-68-4 Latitude 14°58.4'N November 28-29, 1968 Depth 5,665 meters Air Temperature 26.8°C
 Station 14 Longitude 170°02.9'W 1804-0325

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	34.462	4.61	8.21	2.34	0.13	11	< 0.01	0.91	0	27.2	34.46
8	.42	.457	.57	8.23	.38	.14	11	0.07	0.00	10	.42	.46
25	.45	.455	.57	8.22	.34	.16	9	0.03	0.04	30	.45	.46
41	.44	.458	.57	8.22	.34	.15	7	0.00	0.01	50	.44	.46
61	.43	.460	.56	8.21	.34	.18	8	0.02	0.00	75	.43	.47
82	.43	.478	.58	8.21	.34	.00	10	0.03	0.30	100	26.65	.53
121	24.56	.723	.73	8.21	.35	.15	13	0.11	0.03	150	22.05	.98
160	21.29	.987	.42	8.17	.38	.34	10	0.08	0.66	200	17.70	.80
238	14.45	.465	3.64	8.03	.34	.92	19	< 0.01	7.60	300	10.38	.31
314	9.78	.302	2.12	7.80	.34	2.10	37	0.02	18.8	400	8.08	.38
389	8.19	.368	1.16	7.68	.35	2.52	54	0.05	26.1	500	7.28	.44
463	7.55	.472	0.71	7.66	.37	2.80	62	0.05	34.1	600	6.50	.47
535	6.96	.445	0.63	7.64	.38	2.93	76	0.05	36.2	700	5.86	.49
609	6.43	.474	0.72	7.64	.38	3.03	75	0.04	37.1	800	5.35	.51
766	5.55	.501	0.79	7.67	.41	2.94	88	0.08	40.1	1000	4.40	.53
941	4.71	.522	0.90	7.67	.43	3.14	107	0.08	42.0	1200	3.71	.56
748	5.55	.494	0.82	7.65	.44	2.47	93	0.05	40.0	1500	2.90	.59
998	4.42	.529	1.07	7.69	.37	3.15	108	0.05	42.8	2000	2.13	.63
1436	3.05	.589	1.57	7.74	.48	3.01	138	0.06	42.8	2500	1.79	.66
1881	2.29	.625	2.10	7.75	.48	2.73	159	0.10	39.8	3000	1.59	.67
2330	1.90	.652	2.40	7.91	.55	2.44	158	0.00	39.7	3500	1.47	.69
2782	1.67	.667	2.89	7.79	.52	2.42	162	0.03	39.2	4000	1.39	.69
3231	1.54	.683	2.96	7.90	.55	2.24	161	0.06	38.0	4500	1.36	.70
3643	1.44	.687	3.22	7.93	.55	2.24	159	0.00	38.0	5000	1.35	.71
4287	1.39	.699	3.68	7.88	.50	2.29	145	0.05	35.1	5500	1.37	.71
4771	1.34	.708	3.68	7.95	2.56	2.00	130	0.03	35.1	5500		
5200	1.36	.704	3.83	7.93	.53	2.24	134	0.06	34.4	6000		
5658	1.38	.705	4.17	7.87	.49	2.37	132	0.13	33.4	6500		

KH-68-4 Latitude 11°59.7'N November 29, 1968 Depth 5,050 meters Air Temperature 26.3°C
 Station 15 Longitude 169°49.5'W 1753-2350

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	26.7	34.248	4.62	8.22	2.32	0.32	14	< 0.01	0.1	0	26.7	34.25
9	27.40	.155	.61	.21	.32	.18	13	.00	< 0.01	10	27.40	.16
26	27.41	.153	.63	.22	.33	.22	12	< .01	0.0	30	.41	.15
43	27.42	.152	.63	.21	.32	.22	11	< .01	0.0	50	27.00	.17
64	23.28	.858	5.00	.21	.37	.21	12	.05	0.0	75	22.05	.96
85	21.06	.966	4.61	.18	.34	.17	16	.05	0.0	100	19.55	.90
127	16.66	.645	3.63	.07	.35	.68	23	.05	3.8	150	14.00	.43
170	12.60	.368	2.88	7.96	.34	1.45	33	.03	12.7	200	11.42	.41
255	10.06	.557	0.68	.72	.37	2.35	44	.06	23.0	300	9.53	.60
342	9.16	.618	.59	.70	.37	.56	48	.06	28.0	400	8.60	.61
429	8.29	.593	.71	.68	.37	.62	49	.08	31.4	500	7.61	.56
519	7.42	.556	.79	.68	.38	.71	60	.08	35.4	600	6.65	.54
609	6.54	.532	.72	.68	.38	.98	81	.06	38.3	700	5.84	.53
700	5.84	.533	.75	.64	.39	3.03	82	.08	38.4	800	.38	.54
888	4.85	.547	.96	.68	.42	.06	97	.08	40.7	1000	4.42	.56
1080	.12	.559	1.22	.69	.45	2.93	109	.05	40.1	1200	3.74	.57
648	6.50	.538	0.74	.67	.41	.71	73	.03	36.4	1500	2.97	.60
931	4.75	.553	1.02	.66	.43	3.15	95	.08	39.4	2000	2.13	.64
1412	3.16	.595	.72	.72	.47	2.77	128	.08	37.9	2500	1.82	.66
1900	2.25	.633	2.24	.74	.49	.71	150	.06	36.4	3000	.61	.68
2377	1.90	.656	.44	.89	.55	.77	150	.07	35.9	3500	.48	.69
2850	.66	.675	.96	.77	.52	.81	152	.06	33.6	4000	.37	.70
3326	.52	.683	3.05	.92	.55	.43	154	.05	33.0	4500	.30	.70
3801	.39	.693	.41	.93	.54	.46	149	.04	30.8	5000	.31	.71
4276	.30	.703	.95	.88	.49	.39	134	.07	30.1			
4762	.29	.704	.78	.96	.56	.01	128	.07	34.8			
5165	.32	.706	.33	8.07	.51	1.69	118	.03	31.7			

KH-68-4 Latitude 09°01.7'N December 1-2, 1968 Depth 5,200 meters Air Temperature 26.9°C
 Station 16 Longitude 170°01.0'W 2050-0125

Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved (ml/l)	O ₂	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	28.1	33.932	4.55	8.22	2.29	0.10	14	0.00	0.0	0	28.1	33.93	
9	.17	.944	.54	.21	.28	.20	11	.00	0.0	10	.17	.94	
27	.19	.935	.60	.20	.28	.18	12	.00	0.0	30	.15	.93	
46	.02	34.008	.63	.20	.29	.13	11	.00	0.05	50	27.60	34.07	
69	21.14	.799	.82	.15	.37	.32	16	.02	1.0	75	23.50	.80	
93	16.85	.646	3.52	.05	.35	.82	21	.22	4.8	100	20.20	.56	
140	11.45	.497	1.46	7.81	.32	2.05	37	.05	19.8	150	11.24	.63	
187	10.75	.692	0.50	.71	.37	.30	42	.03	23.0	200	10.62	.70	
283	9.70	.689	.61	.68	.37	.33	44	.02	27.2	300	9.55	.68	
379	8.88	.646	.58	.67	.38	.58	45	.05	28.8	400	8.72	.64	
476	8.09	.604	.70	.07	.39	.68	54	.03	30.8	500	7.85	.59	
572	7.12	.562	.85	.66	.39	.74	61	< 0.01	33.2	600	6.89	.56	
669	6.25	.545	.94	.66	.41	.90	81	.02	35.1	700	.06	.55	
764	5.68	.555	.69	.61	.42	3.00	82	.03	39.0	800	5.53	.56	
954	4.79	.567	1.19	.68	.39	2.93	93	.01	37.5	1000	4.60	.57	
1150	3.96	.576	.54	.70	.43	.90	116	.06	39.8	1200	3.83	.58	
1050	4.45	.568	.30	.69	.44	.68	109	.00	30.2	1500	.07	.61	
1338	3.48	.597	.61	.68	.45	.99	122	.00	37.6	2000	2.22	.65	
1815	2.44	.639	2.22	.75	.49	.60	143	.02	38.3	2500	1.89	.67	
2293	1.98	.665	.56	.78	.50	.49	154	.00	35.8	3000	1.65	.69	
2771	.78	.667	.70	.88	.54	.53	149	.00	35.2	3500	1.49	.70	
3250	.57	.690	3.21	.81	.50	.52	150	.02	35.2	4000	1.34	.71	
3730	.42	.698	.47	.89	.53	.40	145	.00	35.0	4500	1.28	.71	
4202	.29	.710	.84	.93	.52	.25	134	.00	32.4	5000	1.30	.72	
4685	.28	.711	4.16	.89	.50	.16	128	.03	31.1				
5162	.31	.716	3.86	.86	.54	1.65	118	.00	29.9				

KH-68-4 Latitude 06°05.0'N December 3,1968 Depth 5,580 meters Air Temperature 27.5°C
 Station 17 Longitude 169°53.1'W 0100-0542

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	28.8	34.102	4.54	8.22	2.32	0.16	9	< 0.01	0.20	0	28.8	34.10
9	.86	.094	.51	.23	.31	.20	6	< 0.01	.00	10	.86	.09
28	.90	.095	.54	.23	.31	.19	10	< 0.01	.00	30	.90	.10
46	.92	.133	.54	.24	.31	.14	10	0.00	.00	50	.95	.17
70	29.14	.422	.55	.22	.32	.22	10	.02	.00	75	.95	.52
93	26.90	.808	.09	.19	.35	.34	13	.22	1.0	100	26.30	.82
139	23.18	35.002	3.25	.11	.35	.79	16	.05	7.5	150	21.40	.98
185	14.99	34.641	2.43	7.98	.33	1.30	25	.05	17.0	200	13.25	.64
276	9.88	.696	1.70	.83	.36	2.28	42	< 0.01	29.3	300	9.55	.69
366	.07	.656	.69	.82	.36	.43	46	.05	30.2	400	8.88	.65
456	8.54	.632	.32	.77	.36	.47	48	.09	34.0	500	.28	.62
546	7.94	.606	0.97	.74	.36	.77	54	.05	36.0	600	7.40	.57
637	6.96	.574	.72	.69	.38	.89	70	.04	38.8	700	6.45	.56
731	6.21	.555	.86	.67	.39	3.07	73	.06	39.8	800	5.77	.55
920	4.97	.554	1.43	.74	.42	2.96	94	.04	40.3	1000	4.57	.56
1140	.13	.568	.69	.75	.44	2.74	111	.05	39.0	1200	3.89	.57
668	6.89	.573	0.80	.67	.40	3.07	72	.02	40.1	1500	3.11	.61
953	4.83	.555	1.42	.70	.42	2.72	96	.04	40.5	2000	2.28	.64
1433	3.28	.601	.86	.74	.45	.70	128	.04	40.1	2500	1.90	.66
1916	2.36	.631	2.37	.77	.47	.63	153	.04	38.4	3000	.72	.67
2399	1.96	.660	.53	.90	.52	.64	154	.04	38.8	3500	.54	.69
2878	.76	.673	.85	.81	.49	.70	163	.05	38.6	4000	.39	.69
3356	.57	.681	3.18	.91	.51	.47	153	.07	35.9	4500	.27	.70
3829	.43	.690	.51	.94	.51	.37	151	.07	35.4	5000	.29	.71
4306	.28	.703	4.04	.91	.48	.20	140	.05	34.4			
4785	.27	.705	3.98	.99	.51	.07	130	.03	32.6			
5267	.31	.701	4.14	.98	.51	.13	134	.11	32.7			

KH-68-4 Latitude 03°02.0'N December 3-4, 1968 Depth 5,470 meters Air Temperature 27.0°C
 Station 18 Longitude 169°56.4'W 1919-0130

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	28.11	35.122	4.57	8.15	2.35	0.41	11	0.19	1.2	0	28.11	35.12
10	28.22	.123	.59	.17	.38	.32	10	.20	1.3	10	.22	.12
30	.23	.119	.57	.17	.37	.36	10	.20	1.2	30	.23	.12
50	.14	.112	.53	.16	.37	.34	10	.27	1.3	50	.14	.11
74	27.78	.156	.37	.16	.37	.48	11	.57	2.1	75	27.77	.16
98	.43	.168	.22	.14	.37	.55	13	1.07	2.6	100	.40	.17
148	25.63	.119	3.59	.12	.37	.53	12	0.10	7.0	150	25.40	.11
198	14.32	34.718	2.75	.02	.35	1.30	28	.04	18.4	200	14.15	34.71
295	10.55	.758	1.91	7.85	.37	2.14	36	.00	28.8	300	10.49	.75
393	9.94	.730	1.14	.76	.37	2.24	41	.05	28.7	400	9.65	.73
491	8.83	.660	1.66	.79	.38	2.37	42	< 0.01	33.0	500	8.74	.65
588	7.66	.597	1.74	.77	.38	2.54	49	.00	32.0	600	7.52	.59
686	6.44	.566	1.14	.69	.38	2.81	70	.00	39.0	700	6.29	.56
784	5.49	.552	1.73	.77	.39	2.85	73	< 0.01	38.6	800	5.40	.55
981	4.57	.567	1.83	.74	.41	2.93	96	.02	39.6	1000	4.49	.57
1179	3.81	.580	2.06	.75	.42	2.99	110	< 0.01	38.6	1200	3.76	.58
1375	3.32	.600	2.08	.76	.44	2.87	125	< 0.01	40.4	1500	3.04	.61
1661	2.78	.618	2.24	.74	.45	2.68	135	0.00	39.7	2000	2.26	.64
2136	2.13	.640*	-	-	-	-	-	-	-	2500	1.89	.66
2612	1.85	.669	2.85	.81	.47	2.74	155	0.04	37.7	3000	1.70	.67
3086	1.68	.679	3.01	.90	.54	2.41	151	.03	37.8	3500	1.55	.69
3559	1.54	.692	3.39	.80	.34	2.50	150	.06	36.6	4000	1.40	.70
4032	1.40	.701	3.66	.92	.51	2.42	145	.06	36.0	4500	1.25	.71
4502	1.25	.707	4.05	.95	.50	2.38	136	.00	33.4	5000	1.29	.71
4970	1.29	.710	4.14	.93	.47	2.34	133	.06	33.1	5500	(1.35)	(.71)
5437	1.35	.712	3.96	.96	.52	2.21	125	.06	33.1			

* interpolated value, () extrapolated value

KH-68-4		Latitude 0°03.2'N		December 5, 1968			Depth 5,500 meters		Air Temperature 28.4°C			
Station 19		Longitude 170°12.1'W		0743-1427								
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	28.3	35.304	4.49	8.18	2.38	0.48	12	0.63	2.3	0	28.3	35.30
10	28.07	.252	.48	.20	.39	.48	11	.65	2.4	10	.07	.25
28	27.87	.239	.51	.20	.38	.49	11	.67	2.4	30	27.85	.24
46	.73	.236	.43	.20	.39	.55	11	.72	2.3	50	.70	.24
69	.53	.250	.21	.18	.39	.66	11	.76	3.2	75	.51	.25
91	.47	.301	.13	.18	.39	.59	13	.86	4.4	100	.40	.36
134	26.55	.383	3.59	.15	.39	.74	14	.05	7.1	150	24.10	.43
176	20.42	.095	.10	.12	.38	.86	17	.03	9.9	200	17.10	.45
269	12.08	34.874	2.75	.02	.38	1.54	28	.03	19.1	300	11.50	34.83
362	10.79	.785	1.80	7.90	.37	2.01	43	.04	27.2	400	10.32	.75
452	9.57	.710	.12	.81	.38	2.39	38	.02	22.2	500	8.66	.66
543	7.83	.615	.23	.78	.38	.56	48	.02	36.8	600	7.19	.58
636	6.80	.574	.46	.79	.39	.73	60	.07	38.8	700	6.28	.56
730	6.03	.558	.70	.79	.39	.63	66	.07	37.6	800	5.61	.55
923	4.96	.549	2.04	.82	.43	.83	84	.17	36.2	1000	4.61	.55
1121	4.11	.564	.04	.84	.31	.63	98	.01	39.4	1200	3.83	.58
937	4.89	.550	.07	.84	.32	.56	88	.02	38.9	1500	3.10	.60
1222	3.74	.578	.18	.83	.36	.96	111	.02	39.4	2000	2.29	.64
1698	2.72	.623	.30	.84	.33	.63	133	.03	38.9	2500	1.83	.66
2175	2.08	.653	.71	.87	.39	.63	146	.02	38.2	3000	1.65	.67
2654	1.76	.666	.91	.99	.43	.48	150	.02	38.1	3500	1.56	.68
3133	1.63	.675	3.25	.89	.35	.48	150	.05	36.9	4000	1.41	.69
3615	1.54	.681	.38	8.01	.42	.33	146	.05	36.3	4500	1.26	.70
4103	1.39	.696	.65	.04	.43	.19	140	.04	35.1	5000	1.27	.71
4600	1.25	.707	.86	.07	.40	1.99	132	.04	33.8			
5083	1.28	.706	4.00	.09	.43	1.90	125	.03	33.7			

KH-68-4 Latitude 03°01.9'S December 6,1968 Depth 5,130 meters Air Temperature 28.1°C
 Station 20 Longitude 170°01.6'W 1820-2330

Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved (ml/l)	O ₂	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	28.4	35.349	4.60	8.15	2.39	0.48	13	0.28	3.4	0	28.4	35.35	
9	.54	.349	.56	.16	.39	.49	10	.32	2.7	10	.54	.35	
28	.56	.347	.60	.16	.39	.53	12	.29	2.0	30	.56	.35	
47	.50	.347	.61	.16	.39	.51	11	.21	1.9	50	.50	.35	
71	.48	.369	.56	.16	.40	.50	13	.20	2.7	75	.45	.38	
95	.26	.533	.46	.17	.42	.59	13	.11	3.2	100	.22	.56	
142	26.64	.640	3.99	.13	.42	.76	14	1.90	4.3	150	25.50	.64	
189	17.34	.401	2.66	.02	.41	1.26	19	0.05	13.2	200	15.80	.22	
284	10.54	34.794	2.47	7.91	.39	1.81	33	.03	24.1	300	10.28	34.78	
379	9.58	.720	1.70	.80	.39	2.47	41	.04	31.0	400	9.42	.72	
474	8.84	.685	.44	.77	.39	.52	45	.03	33.8	500	8.53	.67	
569	7.69	.619	.68	.77	.39	.65	47	.03	34.8	600	7.33	.61	
667	6.72	.582	.63	.74	.40	.82	62	.01	36.5	700	6.40	.58	
761	5.84	.563	.73	.72	.40	.95	72	.02	38.1	800	5.55	.56	
953*	4.90*	-	-	-	-	-	-	-	-	1000	4.60	.56	
1148	4.06	.570	2.26	.75	.42	.83	105	.06	36.4	1200	3.92	.58	
1031	4.50	.561	2.12	.74	.42	.74	104	.02	38.2	1500	3.18	.60	
1319	3.61	.582	.39	.74	.43	.94	124	.00	38.9	2000	2.32	.64	
1796	2.62	.628	.59	.76	.47	.77	142	.00	40.1	2500	1.93	.67	
2275	2.07	.656	.87	.78	.48	.69	155	.01	34.2	3000	1.70	.68	
2750	1.82	.672	3.01	.86	.52	.62	155	.05	39.3	3500	1.50	.69	
3226	1.61	.685	.43	.78	.48	.66	154	.02	38.4	4000	1.40	.70	
3703	1.46	.694	.56	.90	.51	.54	154	.01	37.1	4500	1.30	.71	
4178	1.36	.702	.81	.89	.51	.38	150	.01	35.5	5000	1.25	.71	
4654	1.28	.708	4.41	.83	.46	.32	151	.08	35.5				
5130	1.24	.711	4.24	.92	.49	.25	129	.01	35.3				

* interpolated value

KH-68-4 Latitude 06°09.3'S December 7, 1968 Depth 4,970 meters Air Temperature 28.0°C
 Station 21 Longitude 170°04.6'W 1240-1740

Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved (ml/l)	O ₂	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	29.10	35.604	4.57	8.17	2.53	0.48	8	0.07	1.1	0	29.1	35.50	
9	.02	.591	.57	.18	.41	.52	8	.07	0.6	10	.02	.59	
26	28.94	.585	.59	.18	.40	.51	7	.05	0.7	30	28.94	.59	
44	.99	.613	.53	.18	.41	.44	6	.06	0.5	50	.97	.61	
65	.78	.590	.58	.18	.40	.49	7	.06	0.6	75	.64	.59	
86	.75	.607	.54	.18	.41	.55	9	.05	1.4	100	.20	.64	
127	27.31	.780	.02	.15	.44	.60	4	2.53	1.7	150	26.45	36.05	
166	25.06	36.130	3.61	.15	.43	.71	5	0.07	5.0	200	20.90	35.80	
242	15.53	35.204	2.52	7.99	.38	1.45	15	.03	14.9	300	11.95	34.90	
317	11.23	34.854	.15	.88	.36	1.92	25	.02	23.8	400	9.02	.69	
394	9.14	.698	.67	.89	.37	2.03	30	.00	25.7	500	7.93	.61	
472	8.26	.634	.85	.87	.36	.06	33	.07	26.6	600	6.97	.57	
555	7.39	.588	.85	.85	.37	.28	40	.04	29.8	700	6.21	.55	
639	6.62	.558	.85	.84	.37	.33	43	.05	34.2	800	5.63	.54	
818	6.48	.544	.61	.80	.39	.59	64	.02	34.3	1000	4.50	.56	
1010	4.44	.559	.26	.76	.41	.78	135	.03	38.0	1200	3.76	.58	
863	5.23	.554	.22	.76	.39	.53	72	.02	37.1	1500	2.98	.61	
1149	3.97	.571	.39	.77	.42	.80	97	.04	37.2	2000	2.30	.65	
1623	2.74	.625	.74	.81	.42	.58	121	.00	36.3	2500	1.96	.67	
2108	2.21	.652	.85	.80	.46	.56	129	.02	36.2	3000	1.70	.69	
2578	1.91	.674	3.00	.90	.52	.49	139	.00	34.1	3500	1.53	.70	
3058	1.68	.689	.39	.83	.48	.53	141	.04	34.2	4000	1.40	.71	
3528	1.52	.698	.57	.92	.51	.42	142	.00	34.0	4500	1.28	.71	
3994	1.40	.705	.78	.93	.51	.32	142	.03	34.0	5000	1.21	.71	
4478	1.28	.714	4.03	.94	.51	.09	136	.05	33.1				
4957	1.21	.710	.32	.93	.49	.08	125	.04	30.5				

KH-68-4 Latitude 09°04.6'S December 8,1968 Depth 4,400 meters Air Temperature 27.9°C
 Station 22 Longitude 169°52.9'W 1930-2332

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	29.1	35.179	4.49	8.23	2.33	0.30	9	0.00	0.1	0	29.1	35.18
9	.12	.187	4.45	.24	.37	.29	10	.01	0.1	10	.12	.19
28	.15	.178	4.51	.24	.37	.29	10	.01	0.0	30	.15	.18
46	.08	.191	4.51	.24	.37	.33	6	.00	0.1	50	.08	.20
69	.06	.387	4.55	.24	.39	.23	9	.00	0.1	75	28.90	.45
90	28.13	.649	4.50	.23	.40	.34	11	.05	0.0	100	27.80	.80
134	25.80	36.141	3.70	.18	.44	.47	11	.75	2.0	150	25.00	36.14
177	22.37	.000	3.51	.14	.42	.65	10	.01	5.0	200	18.50	35.75
261	15.85	35.219	2.85	.03	.38	1.24	15	.03	13.7	300	13.95	.01
348	11.46	34.831	2.34	7.92	.36	.78	26	.01	23.6	400	9.65	34.71
435	8.77	.656	2.84	.92	.37	.99	30	.10	27.0	500	7.72	.60
523	7.42	.581	2.97	.89	.37	.99	39	.02	29.4	600	6.50	.54
613	6.36	.532	2.96	.87	.36	2.30	50	.02	31.7	700	5.92	.53
702	5.92	.526	2.90	.84	.37	.48	61	.00	32.2	800	5.33	.52
887	4.86	.524	2.91	.85	.39	.50	70	.00	34.2	1000	4.38	.53
1077	4.08	.541	2.78	.79	.41	.53	86	.03	35.7	1200	3.63	.57
1260	3.45	.579	2.77	.79	.44	.61	104	.01	36.0	1500	2.83	.60
1541	2.73	.605	2.94	.80	.45	.65	116	.00	35.7	2000	2.22	.64
2005	2.21	.642	3.07	.81	.46	.47	129	.01	35.3	2500	1.87	.66
2480	1.88	.663	3.26	.81	.46	.47	138	.04	35.7	3000	1.68	.68
2948	1.70	.680	3.39	.90	.51	.44	135	.00	34.0	3500	1.57	.69
3418	1.58	.687	3.66	.84	.48	.51	135	.01	33.7	4000	1.45	.69
3894	1.51	.690	3.72	.91	.50	.37	135	.00	34.6	4500		
4361	1.09	.713	4.52	.94	.41	.09	119	.05	32.5			

KH-68-4 Latitude 11°59.7'S December 9, 1968 Depth 5,050 meters Air Temperature 28.0°C
 Station 23 Longitude 170°03.4'W 1750-2205

Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved (ml/l)	O ₂	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	28.6	35.568	4.53	8.24	2.40	0.32	8	0.00	0.0	0	28.6	35.57	
10	.68	.574	4.51	.23	.39	.30	9	.01	.1	10	.68	.57	
28	.44	.574	4.52	.23	.41	.30	8	.02	.1	30	.44	.53	
47	.45	.583	4.53	.23	.40	.34	9	.01	.1	50	.44	.75	
70	27.68	.828	4.65	.24	.43	.29	9	.01	.1	75	27.50	.85	
94	26.91	.922	4.60	.24	.43	.34	9	.07	.0	100	26.60	.99	
139	25.04	36.297	3.95	.18	.45	.40	9	.03	.7	150	24.70	36.29	
185	23.35	.180	3.75	.15	.45	.50	8	.53	2.2	200	22.65	.09	
275	17.40	35.356	3.60	.09	.39	.94	11	.01	3.9	300	15.72	35.18	
365	11.83	34.797	2.71	7.94	.36	1.66	23	.01	18.8	400	10.16	34.70	
452	8.45	.602	2.74	.89	.37	2.21	32	.03	26.0	500	7.49	.57	
541	6.85	.544	2.86	.89	.37	.45	41	.02	32.4	600	6.32	.53	
631	6.11	.525	2.84	.87	.38	.52	56	.01	33.3	700	5.71	.52	
721	5.65	.516	2.85	.83	.37	.60	58	.05	33.7	800	5.31	.52	
907	4.86	.518	2.81	.85	.39	.59	72	.04	35.8	1000	4.45	.52	
1098	4.10	.521	3.06	.85	.41	.70	81	.01	34.5	1200	3.72	.55	
968	4.60	.519	2.83	.83	.40	.69	77	.03	35.2	1500	2.93	.57	
1254	3.55	.549	3.14	.83	.42	.69	92	.03	36.4	2000	2.17	.63	
1719	2.51	.612	3.25	.84	.45	.56	118	.01	36.4	2500	1.87	.66	
2205	2.04	.649	3.29	.84	.47	.62	135	.05	36.4	3000	1.70	.68	
2671	1.80	.668	3.31	.91	.53	.56	135	.04	36.1	3500	1.58	.68	
3152	1.64	.681	3.58	.86	.48	.48	142	.08	34.6	4000	1.35	.71	
3626	1.54	.685	3.67	.91	.50	.48	139	.00	35.4	4500	1.06	.71	
4098	1.30	.715	4.35	.94	.47	.26	121	.07	32.9	5000	1.07	.71	
4576	1.05	.714	4.48	.95	.47	.06	122	.02	31.1				
5047	1.08	.714	4.51	.98	.48	.19	123	.01	31.2				

KH-68-4 Latitude 17°00.7'S December 15,1968 Depth 5,000 meters Air Temperature 27.8°C
 Station 24 Longitude 170°02.6'W 0730-1510

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	35.553	4.60	8.22	2.40	0.25	15	< 0.01	0.0	0	27.6	35.55
9	.44	.537	4.62	.23	.40	.28	14	0.00	0.0	10	.44	.54
28	.39	.548	4.65	.23	.39	.26	16	0.01	0.0	30	.40	.55
46	.44	.602	4.66	.23	.39	.28	13	.00	0.2	50	.43	.60
69	.32	.606	4.66	.24	.40	.28	13	.00	0.0	75	.20	.61
91	26.47	.649	4.66	.23	.39	.30	14	< 0.01	0.0	100	26.00	.73
136	24.62	.830	4.24	.20	.41	.25	16	.11	0.1	150	24.26	36.01
181	23.32	.996	3.88	.15	.43	.50	10	.09	0.7	200	22.62	35.88
270	19.50	.559	3.90	.13	.39	.59	13	.02	0.9	300	17.78	.40
358	14.66	.060	3.78	.06	.36	1.02	22	.01	9.0	400	12.68	34.88
447	10.61	34.689	3.76	.00	.35	.45	17	.01	15.4	500	8.75	.54
538	7.68	.466	4.17	7.95	.33	.80	24	.03	22.3	600	6.60	.40
628	6.17	.387	4.31	.93	.35	.94	39	.01	22.4	700	5.50	.39
720	5.32	.401	3.99	.87	.35	2.17	46	.04	24.2	800	4.80	.43
907	4.30	.499	3.49	.86	.40	.15	75	.06	31.7	1000	3.94	.51
1100	3.64	.536	3.23	.84	.40	.59	92	.01	28.1	1200	3.40	.55
792	4.72	.423	3.82	.89	.39	.41	64	.00	26.1	1500	2.81	.59
1070	3.81	.519	3.37	.84	.40	.58	88	.04	28.2	2000	2.26	.63
1531	2.76	.592	3.36	.85	.44	.55	110	.03	29.6	2500	1.93	.66
1997	2.26	.633	3.38	.82	.45	.53	125	.01	34.8	3000	1.74	.68
2462	1.96	.658	3.32	.90	.50	.39	133	.03	35.7	3500	1.60	.69
2926	1.76	.678	3.50	.82	.48	.58	137	.02	35.5	4000	1.31	.72
3391	1.64	.686	3.56	.87	.50	.38	134	.01	36.5	4500	1.10	.72
3853	1.41	.716	4.22	.90	.48	.23	120	.04	32.5			
4304	1.12	.719	4.49	.89	.46	.07	119	.02	33.3			
4776	1.08	.715	4.48	.91	.48	.14	120	.04	31.1			

KH-68-4 Latitude 19°59.7'S December 16, 1968 Depth 5,300 meters Air Temperature 26.4°C
 Station 25 Longitude 170°03.2'W 0440-0900

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	26.4	35.472	4.72	8.27	2.38	0.25	8	0.00	0.1	0	26.4	35.47
10	.24	.471	.72	.27	.38	.17	6	.00	0.1	10	.24	.47
29	25.78	.487	.77	.27	.38	.20	6	.00	0.1	30	25.75	.49
48	24.76	.473	.87	.27	.38	.22	5	.00	0.1	50	24.70	.48
73	23.83	.537	.83	.27	.39	.12	8	.00	0.2	75	23.80	.54
97	22.83	.515	.84	.27	.39	.20	8	.00	0.8	100	22.78	.52
144	21.73	.606	.48	.23	.38	.11	8	.06	0.0	150	21.55	.61
190	20.15	.620	.58	.22	.39	.28	5	.01	1.0	200	19.90	.62
283	17.75	.531	.43	.20	.38	.40	7	.00	2.0	300	17.18	.45
377	13.98	.135	.40	.12	.35	.68	11	.00	7.5	400	12.85	.00
471	10.20	34.672	.19	.05	.35	1.25	11	.00	16.2	500	9.48	34.60
565	8.02	.491	.49	.01	.34	.67	18	.00	21.2	600	7.33	.43
661	6.45	.379	.49	7.98	.35	.94	23	.00	25.0	700	6.05	.36
756	5.60	.361	.39	.94	.35	2.13	26	.01	27.6	800	5.32	.37
948	4.43	.411	3.89	.90	.38	.21	57	.00	32.1	1000	4.12	.43
1140	3.38	.481	.71	.89	.39	.65	76	.00	33.8	1200	3.15	.51
1199	3.15	.505	.67	.87	.40	.60	89	.00	34.7	1500	2.55	.60
1486	2.58	.596	.45	.86	.42	.62	108	.00	35.5	2000	2.20	.64
1968	2.22	.637	.38	.85	.45	.59	121	.00	36.7	2500	1.94	.66
2448	1.96	.654	.38	.85	.47	.54	133	.00	36.6	3000	1.72	.68
2926	1.76	.671	.35	.94	.50	.52	126	.00	35.2	3500	1.50	.70
3402	1.54	.695	.93	.87	.46	.53	127	.00	33.6	4000	1.23	.72
3879	1.30	.719	4.51	.96	.46	.21	109	.01	31.9	4500	1.04	.71
4354	1.08	.714	.63	.95	.46	.23	112	.00	31.3	5000	1.06	.71
4828	1.03	.708	.56	.94	.47	.05	116	.00	32.0			
5303	1.09	.709	.54	.95	.47	.12	111	.04	32.2			

KH-68-4 Latitude 23°10.6'S December 17, 1968 Depth 5,800 meters Air Temperature 25.0°C
 Station 26 Longitude 169°58.3'W 0335-0805

Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved (ml/l)	O ₂	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	25.7	35.545	4.73	8.25	2.39	0.13	6	0.01	0.1	0	25.7	33.54	
9	.68	.526	.81	.26	.39	.19	5	.00	0.2	10	.68	.53	
28	.71	.526	.76	.25	.39	.07	6	.00	0.1	30	.70	.53	
47	24.30	.553	.95	.26	.39	.10	8	.00	0.1	50	24.28	.57	
70	23.99	.714	.69	.24	.40	.19	8	.02	0.0	75	23.80	.70	
94	22.73	.583	.73	.24	.39	.18	8	.00	0.1	100	22.55	.58	
141	20.88	.625	.57	.21	.39	.14	7	.05	0.2	150	20.48	.62	
187	19.20	.600	.38	.18	.39	.38	8	.04	0.3	200	18.90	.60	
280	17.14	.543	.61	.17	.39	.39	7	.01	0.4	300	16.73	.52	
372	15.10	.360	.55	.14	.38	.64	12	.01	0.6	400	14.34	.30	
464	12.49	.075	.55	.10	.36	.75	7	.03	3.9	500	11.26	34.89	
556	9.36	34.656	.58	.03	.34	1.33	13	.02	11.6	600	8.29	.54	
650	7.35	.447	.91	8.01	.34	1.47	16	.00	20.4	700	6.66	.39	
744	6.19	.362	.86	7.97	.35	1.84	18	.00	18.0	800	5.73	.35	
933	4.94	.364	.26	.91	.37	1.94	38	.01	23.2	1000	4.54	.38	
1126	3.91	.443	3.69	.87	.39	2.41	62	.01	30.0	1200	3.55	.47	
933	4.92	.354	4.43	.94	.36	.98	34	.00	27.5	1500	2.82	.56	
1213	3.48	.474	3.69	.86	.40	.43	71	.00	35.0	2000	2.30	.62	
1682	2.59	.594	.38	.85	.43	.39	102	.00	34.5	2500	2.00	.65	
2152	2.22	.632	.33	.84	.46	.29	118	.00	33.7	3000	1.75	.67	
2625	1.95	.658	.28	.92	.50	.38	131	.00	36.6	3500	1.51	.71	
3100	1.72	.676	.53	.86	.48	.57	138	.02	34.8	4000	1.22	.72	
3574	1.49	.718	4.26	.94	.46	.13	118	.00	30.9	4500	1.06	.71	
4050	1.20	.721	.53	.97	.46	.10	119	.00	32.6	5000	1.07	.71	
4525	1.06	.712	.50	.95	.48	1.92	124	.00	30.1	5500	1.11	.71	
5002	1.07	.709	.49	.96	.48	2.01	123	.00	29.2				
5481	1.11	.714	.54	.94	.48	2.07	121	.00	33.2				

KH-68-4 Latitude 23°11.0'S December 18,1968 Depth 10,200 meters Air Temperature 25.8°C
 Station 27 Longitude 174°40.1'W 0915-2010

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	25.7	35.518	4.80	8.25	2.39	0.05	9	0.00	0.1	0	25.7	35.52
9	.45	.512	.84	.24	.39	.08	4	.01	0.1	10	.44	.51
27	.30	.497	.81	.24	.39	.03	7	.00	0.0	30	.28	.50
45	.12	.485	.84	.24	.39	.00	3	.00	0.0	50	.00	.47
67	23.40	.434	5.04	.25	.39	.01	7	.00	0.0	75	22.85	.45
90	22.19	.517	4.93	.26	.39	.08	8	.00	0.0	100	21.88	.53
135	21.02	.612	.63	.21	.40	.10	9	.11	1.0	150	20.69	.62
180	19.98	.629	.64	.21	.40	.24	6	.01	1.0	200	19.48	.62
270	17.55	.521	.45	.17	.41	.46	7	.00	4.0	300	16.85	.45
360	15.55	.397	.53	.15	.39	.53	11	.01	5.9	400	14.80	.32
450	13.80	.206	.47	.12	.38	.60	8	.03	8.0	500	12.06	.02
541	10.56	34.813	.49	.05	.36	1.23	15	.00	15.3	600	8.89	34.61
632	8.16	.539	.73	.01	.36	1.43	15	.00	20.3	700	7.03	.43
724	6.78	.407	.97	7.99	.35	1.73	14	.03	22.7	800	6.07	.37
912	5.34	.367	.41	7.93	.36	1.86	33	.03	28.0	1000	4.78	.39
1105	4.11	.414	3.96	.90	.39	2.32	56	.00	31.6	1200	3.60	.45
1061	4.40	.400	4.02	.91	.51	.11	51	.00	31.4	1500	2.89	.55
1333	3.17	.501	3.75	.87	.41	.48	78	.00	33.2	2000	2.35	.63
1795	2.53	.605	.41	.86	.44	.28	112	.00	34.0	2500	2.03	.66
2262	2.18	.642	.34	.85	.47	.36	127	.00	34.8	3000	1.75	.68
2731	1.90	.663	.32	.91	.50	.41	137	.00	34.8	3500	1.51	.71
3204	1.65	.689	.79	.85	.46	.50	135	.01	32.6	4000	1.23	.72
3676	1.42	.723	4.39	.92	.46	.14	120	.00	30.7	4500	1.09	.72
4151	1.16	.717	.51	.95	.46	1.96	122	.00	28.8	5000	1.09	.72
4626	1.09	.717	.49	.96	.48	2.11	123	.00	30.2	5500	1.12	.71

KH-68-4
 Station 27 (continued)

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
5103	1.10	34.711	4.50	7.92	2.48	2.14	126	0.00	31.1	6000	1.18	34.71
6043	1.18	.708	.46	8.01	.53	.15	124	.01	32.4	6500	1.24	.71
6523	1.24	.712	.49	8.01	.51	.07	122	.00	32.0	7000	1.32	.71
7005	1.32	.705	.27	8.00	.53	1.88	123	.00	32.2	7500	1.40	.71
7486	1.40	.710	.33	7.96	.50	1.88	125	.02	32.1	8000	1.49	.71
7968*	1.48	.705	.33	.96	.52	1.88	121	.03	32.1	8500	1.58	.71
8448	1.56	.710	.49	.93	.49	2.06	122	.01	31.5	9000	1.66	.71
8928*	1.65	.708	.59	.89	.47	.21	122	.03	32.1	9500	1.76	.71
9410*	1.74*	.708	.45	.92	.50	.04	120	.01	32.4	10000	1.85	.71
9890	1.83	.710	.53	.84	.47	.08	121	.03	31.6	10500	(1.96)	(.71)
(10370)	(1.93)	.708	.62	.84	.47	.04	122	.02	31.9			

* interpolated value, () extrapolated value

KH-68-4 Station 28		Latitude 23°16.1'S Longitude 176°30.4'W		December 19, 1968 0457-0708		Depth 2,080 meters		Air Temperature 23.0°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	24.4	35.515	4.84	8.25	2.40	0.12	5	0.00	0.1	0	24.4	35.52
9	.34	.500	.88	.27	.39	.10	5	.00	.1	10	.33	.50
28	.12	.499	.88	.26	.39	.06	6	.00	.1	30	.10	.50
47	21.94	.584	5.06	.25	.39	.10	6	.00	.1	50	21.75	.59
71	20.76	.627	4.74	.24	.40	.15	5	.00	0.5	75	20.68	.63
94	.43	.625	.79	.23	.40	.23	7	.07	.6	100	.30	.62
141	19.07	.611	.57	.21	.40	.25	7	.04	1.9	150	18.98	.61
189	18.07	.586	.61	.23	.40	.38	7	.00	2.9	200	17.83	.58
283	16.01	.419	.46	.19	.39	.52	7	.00	5.7	300	15.60	.38
377	13.44	.146	.45	.14	.38	.63	12	.00	8.4	400	12.70	.06
472	10.45	34.794	.45	.09	.35	1.25	11	.03	14.4	500	9.73	34.71
566	8.34	.556	.58	.04	.35	.47	18	.00	19.0	600	7.80	.51
662	7.01	.433	.74	.02	.37	.66	19	.00	23.6	700	6.72	.41
756	6.34	.395	.69	.01	.37	.84	20	.00	24.8	800	6.00	.39
946	4.86	.387	.20	7.96	.38	.91	42	.00	31.2	1000	4.54	.40
1140	3.82	.456	3.80	.93	.40	2.32	66	.00	33.7	1200	3.55	.49
1290	3.16	.524	.71	.89	.41	.36	86	.00	34.8	1500	2.70	.57
1580	2.63	.587	.50	.88	.44	.48	106	.00	35.6	2000	2.44	.61
2063	2.43	.616	.38	.87	.47	.45	116	.00	35.7			

KH-68-4 Latitude 26°01.7'S December 20-21, 1968 Depth 5,600 meters Air Temperature 21.4°C
 Station 29 Longitude 169°59.0'W 2130-0235

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	35.648	4.93	8.18	2.40	0.07	9	0.00	0.0	0	23.5	35.65
9	.52	.654	.99	.22	.39	.07	5	.00	0.0	10	.52	.65
28	22.99	.654	5.01	.22	.39	.06	6	.00	0.0	30	22.95	.65
46	21.73	.648	.26	.24	.40	.08	8	.00	0.1	50	21.45	.64
69	20.74	.626	.28	.25	.40	.10	8	.00	0.0	75	20.40	.63
91	19.80	.625	.35	.25	.40	.10	8	.00	0.0	100	19.53	.62
137	18.68	.620	4.83	.22	.39	.23	10	.19	0.1	150	18.44	.61
183	17.86	.598	.74	.20	.39	.31	8	.00	0.6	200	17.50	.58
276	15.77	.410	.51	.15	.38	.54	11	.00	1.9	300	15.20	.35
369	13.50	.168	.51	.13	.37	.78	12	.00	3.6	400	12.72	.07
462	11.17	34.877	.46	.08	.35	1.10	12	.00	7.2	500	10.36	34.77
556	9.17	.637	.62	.04	.34	1.30	14	.00	12.6	600	8.39	.56
650	7.61	.489	5.03	.02	.34	1.48	15	.00	18.0	700	7.03	.43
745	6.58	.395	4.82	.01	.34	1.78	17	.00	19.2	800	6.13	.37
936	5.42	.359	.71	7.98	.35	1.99	29	.00	21.7	1000	4.96	.36
1128	4.24	.392	.21	.93	.37	1.98	45	.00	24.9	1200	3.83	.42
898	5.55	.353	.79	.98	.35	1.94	29	.00	22.2	1500	2.93	.55
1184	3.89	.417	.13	.90	.38	2.06	52	.00	27.8	2000	2.36	.62
1659	2.63	.591	3.50	.87	.44	2.25	101	.00	32.8	2500	2.03	.65
2134	2.26	.634	.40	.86	.45	2.23	119	.00	32.6	3000	1.80	.68
2609	1.98	.657	.33	.94	.49	2.42	130	.01	35.7	3500	1.55	.72
3083	1.74	.687	.70	.87	.46	2.26	128	.01	32.9	4000	1.24	.72
3556	1.52	.725	4.31	.95	.46	2.08	115	.01	32.1	4500	1.08	.72
4027	1.22	.721	.55	.95	.45	2.01	118	.00	21.8	5000	1.09	.71
4492	1.08	.716	.55	.96	.46	2.06	122	.00	29.2			
4962	1.08	.710	.55	.95	.46	2.05	119	.00	29.2			
5441	1.12	.707	.57	.96	.47	2.00	115	.00	28.4			

KH-68-4 Latitude 29°00.2'S December 22,1968 Depth 5,550 meters Air Temperature 20.0°C
 Station 30 Longitude 170°01.1'W 0155-0755

Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved (ml/l)	O ₂	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	21.6	35.714	5.10	8.22	2.41	0.13	11	0.00	0.0	0	21.6	35.71	
9	.66	.714	.14	.22	.41	.12	9	.00	0.1	10	.66	.71	
28	20.90	.699	.29	.24	.41	.10	8	.00	0.0	30	20.78	.69	
47	19.81	.658	.43	.25	.41	.09	8	.00	0.0	50	19.67	.65	
70	18.81	.640	.53	.27	.41	.10	8	.00	0.0	75	18.55	.63	
93	17.83	.616	.17	.26	.41	.22	9	.00	0.0	100	17.67	.60	
140	16.68	.555	.09	.24	.39	.36	9	0.03	1.5	150	16.40	.50	
187	15.22	.421	4.73	.19	.38	.49	10	.00	4.4	200	14.90	.37	
280	13.09	.155	.67	.15	.37	.90	10	.00	10.2	300	12.77	.08	
374	11.56	34.986	.76	.11	.36	1.01	14	.00	12.0	400	11.02	34.90	
468	9.54	.705	.64	.08	.35	1.16	12	.00	17.5	500	8.90	.61	
562	7.89	.509	.89	.04	.34	1.39	17	0.01	20.6	600	7.49	.47	
656	7.04	.429	5.11	.04	.35	1.52	16	.00	22.2	700	6.73	.40	
750	6.40	.379	.15	.02	.34	1.66	17	.00	24.3	800	6.11	.37	
940	5.29	.367	4.66	7.99	.35	2.35	34	.00	28.1	1000	4.92	.37	
1129	4.16	.385	.29	.95	.38	2.07	50	.00	31.1	1200	3.85	.41	
1325	3.34	.463	.01	.91	.40	.28	74	.00	33.4	1500	2.91	.53	
1609	2.70	.564	3.68	.89	.43	.42	98	.00	34.8	2000	2.30	.63	
2083	2.24	.635	.39	.88	.46	.46	123	.00	35.5	2500	2.00	.66	
2557	1.97	.660	.37	.90	.48	.41	136	0.02	35.9	3000	1.80	.68	
3027	1.79	.684	.45	.96	.51	.39	137	.02	35.2	3500	1.58	.72	
3500	1.58	.716	4.31	.91	.45	.20	119	.04	32.1	4000	1.24	.72	
3972	1.26	.722	.55	.98	.47	.10	116	.07	31.2	4500	1.03	.72	
4443	1.03	.714	.62	.98	.47	.06	123	.03	31.8	5000	1.04	.72	
4920	1.03	.717	.57	.96	.47	.04	126	.03	32.2	5500	1.12	.71	
5399	1.10	.712	.54	.97	.49	.07	125	.02	31.2				

KH-68-4 Latitude 31°58.8'S December 22-23,1968 Dpeth 5,650 meters Air Temperature 19.2°C
 Station 31 Longitude 169°59.7'W 2131-0222

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	19.7	35.569	5.29	8.22	2.39	0.23	6	0.00	0.0	0	19.7	35.57
9	.76	.579	.40	.22	.39	.16	5	.00	.0	10	.76	.58
28	18.65	.554	.46	.23	.39	.17	5	.00	.0	30	18.60	.55
47	.17	.518	.52	.23	.39	.23	5	.01	.0	50	.05	.52
70	16.83	.520	.60	.24	.39	.24	6	.00	.0	75	16.66	.51
93	.19	.493	.41	.22	.38	.19	6	.11	0.4	100	.02	.48
141	15.15	.404	.08	.19	.38	.34	6	.01	3.2	150	15.00	.39
188	14.34	.314	.20	.18	.38	.51	5	.00	3.7	200	14.14	.28
283	12.49	.081	4.68	.12	.36	.85	9	.00	10.7	300	12.20	.05
377	10.84	34.875	.62	.08	.35	1.08	10	.00	14.6	400	10.40	34.82
468	9.09	.652	.70	.05	.35	1.15	11	.01	18.4	500	8.67	.60
560	8.01	.528	.87	.03	.35	1.37	14	.00	20.8	600	7.69	.50
653	7.30	.462	.97	.02	.35	1.47	14	.00	23.4	700	6.93	.43
749	6.65	.408	5.07	.01	.34	1.67	14	.00	24.1	800	6.33	.39
942	5.56	.369	4.76	7.98	.35	1.88	29	.00	26.7	1000	5.21	.37
1135	4.33	.384	.37	.92	.37	1.91	47	.00	32.2	1200	4.02	.41
1520	3.01	.527	3.86	.88	.41	2.33	88	.00	35.2	1500	3.09	.52
1844	2.49	.604	.57	.85	.44	2.37	102	.00	35.7	2000	2.35	.62
2329	2.14	.647	.45	.84	.45	.40	122	.00	36.8	2500	2.08	.65
2811	1.91	.668	.43	.88	.47	.29	128	.01	36.0	3000	1.81	.69
3287	1.70	.719	4.05	.93	.47	.15	115	.00	33.6	3500	1.55	.72
3758	1.39	.724	.60	.87	.43	.01	110	.01	32.5	4000	1.28	.72
4227	1.09	.717	.60	.94	.47	.04	121	.01	32.6	4500	1.05	.71
4700	1.02	.709	.63	.92	.46	.17	122	.00	32.6	5000	1.04	.71
5175	1.06	.715	.61	.90	.47	.09	122	.00	32.9	5500	1.11	.71
5652	1.14	.711	.60	.89	.46	.15	112	.01	33.6			

KH-68-4 Latitude 35°00.0'S December 23-24, 1968 Depth 5,200 meters Air Temperature 17.2°C
 Station 32 Longitude 169°59.1'W 2345-0330

Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved (ml/l)	O ₂	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	18.2	35.051	5.49	8.21	2.36	0.30	6	0.00	0.0	0	18.2	35.05	
9	.22	.028	.51	.21	.37	.27	6	.00	0.0	10	.20	.03	
28	16.74	.259	.64	.22	.37	.24	6	.00	0.1	30	16.73	.26	
47	.64	.262	.66	.22	.38	.23	6	.00	0.1	50	.60	.26	
71	15.73	.331	.78	.23	.38	.24	6	.00	0.0	75	15.55	.33	
94	.02	.312	.64	.22	.37	.15	6	0.09	0.0	100	14.90	.31	
141	14.01	.266	.10	.17	.38	.44	7	.00	3.4	150	13.80	.25	
188	13.01	.185	4.78	.13	.38	.78	7	.00	8.4	200	12.85	.17	
282	11.56	.005	.88	.10	.36	.96	10	.00	10.5	300	11.24	34.96	
375	10.26	34.820	.80	.07	.36	1.09	10	.00	14.1	400	9.62	.73	
469	8.93	.650	.75	.05	.35	.22	11	0.01	16.5	500	8.66	.62	
563	8.12	.564	.81	.03	.35	.49	17	.00	18.1	600	7.79	.53	
657	7.38	.496	.85	.00	.36	.44	16	.00	21.4	700	7.10	.47	
752	6.84	.451	.81	7.99	.35	.72	17	.00	22.4	800	6.53	.43	
941	5.64	.403	.59	.96	.36	.91	31	0.01	24.4	1000	5.24	.40	
1136	4.42	.410	.29	.93	.38	2.09	47	.00	28.4	1200	4.01	.42	
1129	4.45	.411	.34	.90	.38	.16	44	.00	31.3	1500	3.02	.53	
1415	3.20	.500	3.94	.86	.40	.26	72	.00	35.4	2000	2.40	.63	
1890	2.47	.620	.51	.89	.46	.34	103	0.01	35.7	2500	2.03	.65	
2365	2.12	.647	.42	.89	.48	.26	116	.00	34.9	3000	1.84	.69	
2839	1.90	.672	.41	.92	.50	.32	123	.00	35.0	3500	1.59	.72	
3310	1.73	.710	4.13	.86	.45	.09	112	0.01	32.6	4000	1.23	.72	
3778	1.40	.729	.45	.96	.47	.02	109	.00	31.5	4500	1.06	.72	
4246	1.10	.721	.61	.94	.46	.09	116	.00	31.6	5000	1.04	.71	
4719	1.02	.714	.62	.92	.47	.10	117	.00	31.7				
5198	1.06	.710	.63	.93	.48	.10	120	.00	32.6				

KH_68-4 Latitude 38°00.9'S December 25,1968 Depth 5,100 meters Air Temperature 17.0°C
 Station 33 Longitude 169°59.9'W 0216-0819

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	17.4	35.020	5.60	8.20	2.37	0.24	9	0.00	0.0	0	17.4	35.02
10	16.75	.013	.68	.21	.36	.26	8	.00	0.0	10	16.75	.01
29	15.90	.008	.76	.22	.36	.20	8	.00	0.0	30	15.89	.01
48	.15	34.999	.89	.22	.36	.19	8	.00	0.0	50	15.13	.00
72	14.98	.997	.83	.22	.36	.24	9	.00	0.0	75	14.90	.00
96	13.38	35.006	.75	.21	.36	.17	6	0.36	0.4	100	12.90	.00
144	11.15	34.908	.17	.12	.35	.58	9	.00	9.2	150	11.06	34.90
192	10.42	.822	.12	.10	.35	.92	11	.00	11.2	200	10.30	.80
288	9.20	.665	.03	.07	.34	1.18	13	0.04	17.1	300	9.12	.65
383	8.42	.580	.01	.05	.35	1.23	18	.00	19.6	400	8.31	.56
478	7.74	.503	.03	.05	.36	.33	15	0.02	19.9	500	7.63	.50
572	7.28	.460	.05	.02	.35	.55	22	.00	22.6	600	7.12	.45
666	6.82	.426	.01	.02	.35	.64	22	.00	24.8	700	6.63	.42
762	6.33	.408	4.85	7.98	.35	.80	24	0.01	24.0	800	6.11	.40
956	5.24	.398	.50	.96	.36	.88	40	0.03	28.9	1000	5.00	.40
1152	4.18	.418	.21	.90	.37	2.00	54	.00	30.8	1200	3.94	.43
1389	3.24	.498	3.91	.88	.40	.31	75	.00	34.3	1500	3.01	.54
1682	2.71	.589	.63	.86	.43	.44	101	.00	35.4	2000	2.47	.62
2170	2.34	.634	.47	.87	.46	.33	119	.00	36.5	2500	2.15	.65
2658	2.05	.663	.47	.91	.49	.22	123	.00	35.7	3000	1.89	.71
3144	1.80	.719	4.19	.97	.47	.09	108	.00	32.6	3500	1.51	.72
3626	1.40	.722	.62	.89	.43	.12	116	.00	31.6	4000	1.12	.72
4106	1.09	.715	.54	.97	.43	.05	123	.00	32.4	4500	1.02	.71
4588	1.01	.714	.63	.96	.47	.10	125	.00	32.2	5000	0.99	.70
5076	0.98	.703	.58	.95	.48	1.92	126	.00	32.0			

KH-68-4 Station 34		Latitude 39°59.5'S Longitude 170°03.2'W		December 26, 1968 1240-1640			Depth 5,200 meters		Air Temperature 17.0°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	17.0	34.999	5.73	8.18	2.36	0.22	10	0.01	0.1	0	17.0	35.00
9	16.08	.993	.83	.19	.36	.19	8	.00	0.1	10	16.00	34.99
28	15.36	.992	.91	.20	.36	.16	10	.00	0.1	30	15.20	.99
47	13.80	.958	6.20	.21	.36	.19	10	.02	0.1	50	13.75	.96
70	.49	.956	5.92	.19	.36	.34	8	.06	0.4	75	.25	.96
94	12.47	.949	.82	.18	.36	.46	7	.65	0.5	100	12.34	.95
140	11.66	.971	.43	.13	.36	.60	13	.04	2.7	150	11.50	.97
187	10.88	.901	.03	.08	.36	.93	13	.01	3.2	200	10.70	.88
281	9.62	.731	4.98	.05	.35	1.12	14	.02	6.3	300	9.41	.70
375	8.71	.621	5.17	.05	.35	.22	17	.02	10.1	400	8.59	.61
469	.17	.576	4.89	.02	.35	.34	16	.00	10.2	500	8.00	.56
564	7.57	.511	.99	.01	.36	.40	22	.02	14.8	600	7.40	.50
658	.12	.469	.96	.02	.35	.47	20	.01	19.4	700	6.94	.46
753	6.66	.457	.75	7.99	.35	.61	25	.00	23.0	800	.41	.45
945	5.67	.438	.48	.96	.36	.90	37	.04	24.5	1000	5.40	.44
1140	4.68	.459	.18	.94	.38	2.04	50	.00	27.8	1200	4.33	.47
1417	3.33	.538	3.82	.91	.42	.29	80	.00	32.7	1500	3.07	.57
1708	2.64	.605	.66	.89	.44	.32	104	.01	29.2	2000	2.32	.63
2193	2.20	.649	.56	.90	.45	.16	117	.02	34.7	2500	2.01	.69
2677	1.90	.714	4.05	.96	.45	.04	106	.01	32.2	3000	1.67	.74
3160	1.53	.735	.50	.97	.45	.06	105	.00	28.8	3500	1.24	.73
3644	1.13	.721	.76	.91	.43	.09	116	.01	26.9	4000	1.01	.71
4129	0.96	.711	.68	.97	.46	.03	123	.00	29.9	4500	0.94	.71
4613	0.94	.711	.72	.96	.46	.03	125	.00	31.7			

KH-68-4 Latitude 42°01.2'S December 27, 1968 Depth 4,100 meters Air Temperature 17.6°C
 Station 35 Longitude 170°01.8'W 0153-0640

Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved (ml/l)	O ₂	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	15.8	34.953	5.81	8.22	2.37	0.27	7	0.02	0.0	0	15.8	34.95	
9	.76	.947	.81	.23	.37	.31	9	.00	0.1	10	.75	.95	
28	14.28	.904	6.04	.25	.37	.23	9	.01	0.0	30	14.20	.91	
47	13.32	.950	.01	.23	.37	.34	7	.07	0.4	50	13.29	.95	
71	.18	.980	5.88	.22	.37	.49	8	.16	0.8	75	.12	.99	
94	12.86	35.010	.74	.21	.37	.37	6	.50	1.5	100	12.80	35.02	
142	.33	.056	.63	.19	.37	.44	8	.03	4.1	150	12.25	.06	
189	11.82	.015	.21	.15	.37	.76	8	.02	7.4	200	11.70	34.99	
285	10.10	34.780	.02	.10	.36	1.19	11	.02	11.9	300	9.90	.75	
382	8.90	.628	.28	.08	.35	.19	12	.02	16.8	400	8.99	.61	
479	8.18	.541	.49	.09	.37	.27	10	.01	18.1	500	.02	.53	
575	7.59	.471	.41	.06	.34	.49	13	.02	20.8	600	7.49	.46	
670	7.13	.426	.35	.05	.35	.49	13	.02	21.8	700	.02	.42	
765	6.77	.402	.22	.04	.35	.76	15	.01	23.6	800	6.63	.40	
958	5.84	.391	4.67	7.98	.37	.89	28	.03	27.9	1000	5.63	.40	
1136	4.91	.421	.35	.95	.38	2.10	43	.00	32.8	1200	4.43	.43	
1331	3.62	.440	.13	.91	.40	.03	60	.00	33.5	1500	3.20	.50	
1623	2.97	.541	3.81	.90	.41	.24	85	.02	33.5	2000	2.59	.61	
2109	2.48	.629	.57	.88	.43	.30	106	.00	35.0	2500	.14	.67	
2590	2.05	.676	.74	.92	.45	.05	112	.00	34.0	3000	1.78	.72	
3066	1.71	.728	4.37	.97	.45	.15	102	.02	32.6	3500	1.29	.72	
3544	1.27	.722	.67	8.01	.43	.03	110	.02	31.7	4000	1.01	.71	
4032	1.00	.708	.62	7.95	.46	.08	120	.01	32.8				

KH-68-4 Latitude 44°00.0'S December 27, 1968 Depth 5,000 meters Air Temperature 17.4°C
 Station 36 Longitude 170°00.1'W 1632-2030

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	15.4	34.953	6.00	8.24	2.36	0.23	7	0.00	0.1	0	15.4	34.95
10	.06	.944	.07	.25	.35	.17	6	.01	0.0	10	.06	.94
28	14.15	.946	.25	.25	.36	.23	7	.01	0.0	30	14.10	.94
48	13.46	.943	5.99	.23	.36	.30	5	.07	1.0	50	13.40	.94
71	12.75	.944	.85	.21	.36	.40	8	.38	2.0	75	12.69	.94
95	.38	.993	.76	.20	.36	.41	5	.04	4.8	100	.33	35.00
143	.23	35.068	.69	.18	.36	.52	7	.02	6.3	150	.19	.07
191	11.65	34.999	.27	.14	.36	.80	8	.02	10.3	200	11.50	34.98
287	10.20	.803	.08	.09	.35	1.06	12	.02	14.8	300	10.02	.78
384	9.07	.654	.25	.08	.35	.19	17	.00	16.9	400	8.88	.63
480	8.22	.562	.14	.06	.35	.24	13	.04	19.7	500	.15	.55
576	7.79	.517	.10	.04	.34	.46	18	.01	21.2	600	7.67	.51
672	.35	.479	.03	.03	.35	.66	16	.00	23.4	700	.22	.47
768	6.92	.455	4.93	.01	.35	.52	17	.04	25.1	800	6.81	.45
962	.05	.443	.58	7.98	.35	.86	29	.02	28.1	1000	5.79	.43
1158	4.69	.403	.45	.94	.36	2.00	43	.01	31.5	1200	4.50	.42
1324	.23	.484	.08	.91	.39	.18	55	.07	33.3	1500	3.50	.52
1612	3.19	.547	3.85	.87	.41	.26	83	.01	35.9	2000	2.47	.62
2094	2.37	.649	.79	.88	.42	.12	98	.00	35.7	2500	2.11	.72
2575	2.04	.729	4.24	.94	.43	.00	93	.00	33.3	3000	1.69	.74
3054	1.65	.744	.48	.96	.44	.06	100	.00	32.8	3500	1.29	.73
3534	1.24	.730	.71	.91	.42	.06	108	.00	32.2	4000	0.99	.72
4012	0.98	.718	.68	.96	.44	.07	119	.04	32.6	4500	0.91	.71
4487	0.91	.712	.74	.95	.45	.08	121	.01	33.0	5000	(0.94)	(.71)
4964	0.94	.710	.73	.94	.45	.04	121	.00	33.5			

() extrapolated value

KH-68-4 Latitude 46°01.3'S December 28, 1968 Depth 5,200 meters Air Temperature 12.2°C
 Station 37 Longitude 169°58.6'W 0621-1155

Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved (ml/l)	O ₂	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	13.3	34.676	6.20	8.21	2.36	0.54	7	0.10	1.5	0	13.3	34.68	
9	.29	.679	.21	.22	.36	.57	7	.10	1.4	10	.29	.68	
27	12.90	.690	.30	.22	.36	.54	8	.09	1.9	30	12.77	.69	
45	11.64	.691	.36	.23	.36	.58	6	.13	2.9	50	11.21	.69	
67	10.65	.662	.17	.19	.36	.79	8	.27	3.5	75	10.58	.67	
90	.48	.697	.08	.18	.36	.73	5	.52	4.7	100	.44	.71	
135	.33	.735	5.98	.18	.36	.57	8	.08	4.8	150	.30	.74	
181	.11	.727	.91	.17	.36	.99	7	.04	5.8	200	9.93	.71	
273	9.10	.627	.54	.13	.35	1.17	9	.02	11.2	300	8.90	.60	
366	8.43	.559	.59	.12	.35	.12	12	.01	14.5	400	.19	.53	
459	7.74	.487	.70	.12	.35	.31	11	.01	17.1	500	7.55	.45	
552	.33	.422	.87	.11	.35	.44	15	.01	17.0	600	.22	.42	
645	.09	.411	.69	.10	.35	.36	13	.01	19.3	700	6.89	.40	
738	6.71	.390	.45	.07	.35	.58	13	.00	21.0	800	6.51	.39	
927	5.91	.374	.00	.01	.36	.96	23	.01	23.1	1000	6.08	.35	
1120	4.65	.347	4.76	7.97	.37	2.00	39	.01	28.3	1200	4.20	.37	
1047	.95	.350	.85	.99	.36	1.97	34	.01	25.9	1500	3.23	.46	
1348	3.61	.410	.46	.93	.37	2.06	57	.01	29.5	2000	2.54	.60	
1834	2.69	.560	3.95	.98	.37	.11	82	.00	33.2	2500	.22	.73	
2320	.33	.671	.98	.95	.44	.15	89	.00	32.3	3000	1.88	.77	
2806	.01	.775	4.28	8.00	.46	.05	92	.00	30.4	3500	.45	.73	
3289	1.62	.731	.60	7.92	.43	.12	103	.01	31.1	4000	.11	.72	
3769	.25	.720	.55	.97	.45	.05	113	.01	31.7	4500	0.98	.71	
4249	.03	.717	.62	.98	.46	.05	121	.01	31.9	5000	0.96	.70	
4730	0.94	.704	.63	.98	.47	.13	123	.00	28.6				
5209	0.98	.701	.57	.98	.47	.16	121	.00	32.0				

KH-68-4 Latitude 48°00.6'S January 10, 1969 Depth 5,280 meters Air Temperature 14.3°C
 Station 38 Longitude 170°05.1'W 0640-1620

Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved (ml/l)	O ₂	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	13.8	34.628	6.14	8.23	2.35	0.46	9	0.11	1.7	0	13.8	34.63	
9	.75	.635	.14	.23	.34	.46	8	.11	2.0	10	.74	.64	
26	.68	.639	.18	.23	.34	.50	8	.11	2.2	30	.60	.64	
43	12.67	.646	.27	.23	.34	.42	8	.11	2.3	50	11.50	.60	
64	10.96	.620	.14	.20	.34	.72	9	.23	4.0	75	10.93	.69	
85	.91	.737	.04	.19	.34	.74	6	.38	5.5	100	.82	.76	
127	.66	.792	5.94	.18	.34	.77	8	.05	6.7	150	.59	.79	
170	.52	.793	.91	.17	.34	.85	7	.06	7.2	200	.33	.78	
256	9.85	.736	.48	.12	.34	1.08	13	.04	15.2	300	9.39	.69	
344	8.92	.631	.46	.10	.34	1.23	11	.02	16.0	400	8.48	.58	
433	.26	.549	.54	.10	.34	1.26	13	.03	17.7	500	7.86	.49	
524	7.71	.473	.69	.09	.34	.34	15	.03	20.3	600	.40	.44	
617	.32	.436	.70	.08	.34	.45	16	.02	21.9	700	.14	.43	
711	.10	.430	.39	.04	.34	.55	18	.03	23.0	800	6.75	.41	
904	6.19	.399	.02	.01	.34	.55	26	.03	27.1	1000	5.68	.39	
1100	5.13	.390	4.58	7.96	.36	2.07	40	.01	31.0	1200	4.57	.38	
1159	4.76	.379	.60	.97	.36	.06	43	.04	27.2	1500	3.34	.44	
1448	3.44	.426	.31	.91	.38	.24	64	.03	34.0	2000	2.60	.60	
1930	2.63	.578	3.89	.88	.41	.28	88	.03	35.5	2500	2.21	.69	
2413	2.29	.681	4.01	.94	.44	2.01	91	.03	33.8	3000	1.87	.73	
2896	1.95	.732	.34	.98	.45	.02	93	.04	31.8	3500	1.48	.73	
3377	1.56	.730	.58	.92	.42	.10	104	.04	31.7	4000	1.15	.71	
3853	1.23	.717	.57	.97	.46	.01	113	.04	34.3	4500	0.99	.70	
4333	1.02	.707	.63	.97	.46	.03	121	.04	33.4	5000	0.96	.70	
4811	0.95	.701	.56	.96	.47	.01	123	.04	36.4				
5052	0.96	.703	.65	.94	.46	.15	125	.02	34.0				

KH-68-4 Latitude 49°52.4'S January 11, 1969 Depth 5,190 meters Air Temperature 13.7°C
 Station 39 Longitude 170°00.9'W 0310-0702

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	13.2	34.499	6.21	8.23	2.35	0.46	8	0.10	2.5	0	13.2	34.50
10	.08	.496	.23	.24	.35	.48	7	.09	2.3	10	.08	.50
28	.03	.488	.22	.24	.35	.49	7	.11	3.0	30	12.80	.49
48	10.36	.232	.56	.20	.34	.73	7	.12	6.9	50	10.35	.23
71	.33	.315	.37	.22	.34	.78	7	.17	7.2	75	.30	.32
95	9.42	.347	.32	.18	.34	.93	7	.28	9.1	100	9.10	.35
143	7.81	.266	.42	.15	.35	1.10	10	.25	12.4	150	7.81	.27
191	.84	.334	.26	.14	.34	.13	10	.21	13.9	200	.84	.35
287	.80	.441	5.98	.11	.34	.24	14	.04	14.5	300	.77	.44
383	.38	.405	6.08	.11	.34	.31	12	.03	15.7	400	.30	.40
479	6.91	.367	.03	.11	.34	.20	15	.00	17.5	500	6.83	.36
575	.43	.324	5.86	.08	.34	.41	19	.03	20.3	600	.30	.32
672	5.87	.293	.69	.05	.34	.56	20	.01	25.0	700	5.72	.29
768	.36	.289	.44	.00	.34	.78	21	.00	24.1	800	.19	.29
960	4.32	.309	.04	7.96	.36	.82	36	.02	27.4	1000	4.12	.32
1154	3.62	.391	4.47	.93	.37	2.16	55	.01	31.3	1200	3.40	.41
1076	.80	.358	.68	.94	.37	.09	49	.00	29.8	1500	2.80	.49
1363	2.88	.460	.26	.90	.39	.13	69	.01	34.4	2000	.52	.60
1843	.57	.563	.09	.89	.39	.19	80	.02	33.4	2500	.22	.71
2324	.32	.675	.06	.96	.43	1.91	90	.00	34.4	3000	1.82	.74
2806	2.00	.738	.35	.97	.43	.97	94	< 0.01	30.8	3500	.42	.73
3286	1.60	.733	.62	.91	.42	.88	102	.02	32.5	4000	.12	.72
3766	.26	.723	.64	.95	.43	.96	112	.00	32.2	4500	0.98	.71
4245	.01	.709	.69	.95	.44	2.00	118	.03	31.2	5000	.96	.70
4724	0.94	.705	.71	.96	.45	1.96	123	.00	30.4			
5205	0.98	.703	.67	.98	.46	1.87	111	.00	33.7			

KH-68-4 Latitude 52°00.4'S January 12, 1969 Depth 5,060 meters Air Temperature 12.0°C
 Station 40 Longitude 169°53.7'W 0635-1137

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	11.22	34.020	6.44	8.19	2.30	0.87	8	0.18	11.6	0	11.22	34.20
9	.06	.203	.46	.20	.34	.92	7	.20	11.8	10	.05	.20
28	10.60	.200	.53	.20	.34	.83	8	.17	11.9	30	10.57	.20
46	9.80	.206	.59	.21	.34	.92	7	.13	11.5	50	9.73	.20
69	9.54	.200	.47	.20	.34	.92	8	.16	12.0	75	.40	.20
91	7.68	.204	.52	.17	.34	1.16	9	.26	15.7	100	7.48	.20
137	.10	.218	.49	.16	.33	.12	10	.28	17.9	150	.15	.28
184	.40	.354	.19	.13	.34	.20	10	.06	19.3	200	.39	.37
275	.09	.358	.16	.13	.34	.25	12	.03	20.6	300	6.98	.35
368	6.62	.335	5.96	.10	.35	.38	16	.02	22.7	400	.41	.33
460	5.98	.309	.66	.07	.35	.42	22	.04	25.8	500	5.69	.30
553	.32	.293	.46	.03	.35	.52	26	.03	28.2	600	.04	.29
647	4.78	.289	.23	.01	.34	.74	31	.03	30.1	700	4.48	.30
743	.26	.300	.08	7.98	.35	.94	33	.03	32.1	800	4.00	.31
937	3.42	.350	4.73	.96	.37	.76	49	.05	34.6	1000	3.26	.37
1133	2.98	.436	.31	.92	.38	2.24	66	.03	35.7	1200	2.86	.46
1422	2.59	.543	.05	.90	.39	.21	78	.04	36.1	1500	2.55	.57
1705	2.40	.631	.12	.90	.39	.06	82	.04	35.7	2000	2.27	.69
2178	2.16	.718	.30	.92	.41	1.91	92	.05	33.2	2500	1.95	.74
2653	1.82	.740	.42	.98	.45	.78	99	.05	33.3	3000	1.57	.74
3133	1.44	.735	.57	.98	.44	.78	106	.06	33.8	3500	1.20	.73
3612	1.13	.722	.75	.92	.42	.99	116	.05	33.6	4000	1.00	.71
4090	0.95	.710	.74	.95	.44	.86	120	.03	34.4	4500	0.92	.71
4563	0.91	.705	.76	.96	.45	.84	124	.05	34.3	5000	0.91	.70
5035	0.91	.702	.66	.96	.46	.87	124	.03	33.9			

KH-68-4 Latitude 53°58.2'S January 12-13, 1969 Depth 5,210 meters Air Temperature 10.4°C
 Station 41 Longitude 169°55.6'W 2335-0625

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	9.38	34.105	6.69	8.19	2.34	0.99	5	0.18	12.9	0	9.38	34.10
9	.40	.104	.69	.20	.34	1.06	6	.17	14.1	10	.40	.10
28	.40	.100	.70	.20	.34	0.92	7	.17	13.6	30	.40	.10
46	8.63	.114	.73	.20	.34	1.10	7	.17	15.2	50	8.30	.12
69	6.96	.148	.64	.17	.34	.26	10	.20	17.4	75	6.82	.16
91	6.66	.169	.63	.17	.34	.35	9	.36	18.1	100	6.60	.22
137	6.49	.220	.49	.15	.34	.42	11	.06	20.0	150	6.48	.23
184	6.45	.262	.44	.14	.34	.37	10	.04	20.6	200	6.45	.27
276	6.24	.275	.04	.10	.34	.54	17	.03	23.3	300	6.08	.27
368	5.44	.247	5.76	.06	.34	.72	21	.03	26.0	400	5.26	.25
459	4.88	.256	.43	.04	.35	.76	29	.03	28.8	500	4.60	.25
550	4.22	.257	.29	.00	.35	.80	34	.01	31.6	600	3.97	.27
639	3.78	.290	.04	7.99	.35	2.06	38	.03	32.4	700	3.48	.30
727	3.38	.309	4.89	.96	.35	.19	46	.02	33.5	800	3.15	.34
905	2.93	.389	.50	.93	.37	1.94	56	.03	36.0	1000	2.80	.44
1088	2.78	.489	.09	.91	.40	2.34	73	.02	35.8	1200	2.65	.53
1097	.78	.486	.16	.91	.39	.26	69	.02	35.6	1500	2.41	.62
1386	.47	.590	.05	.90	.40	.27	81	.03	36.1	2000	2.15	.72
1869	.23	.703	.23	.92	.41	.11	85	.02	33.9	2500	1.80	.74
2349	1.92	.739	.28	.97	.44	1.94	93	.02	33.0	3000	1.44	.73
2829	.54	.737	.51	.99	.45	.98	103	.02	33.7	3500	1.15	.72
3309	.24	.723	.72	.93	.43	2.14	104	.02	33.2	4000	0.98	.71
3387	.02	.714	.67	.96	.45	.04	117	.01	34.3	4500	0.90	.71
4263	0.91	.710	.71	.96	.45	.06	121	.02	34.3	5000	0.93	.71
4739	0.90	.707	.67	.96	.47	1.98	123	.02	33.7			
5214	0.96	.705	.62	.96	.48	.94	117	.02	33.1			

KH-68-4 Latitude 55°55.0'S January 14, 1969 Depth 4,700 meters Air Temperature 8.0°C
 Station 42 Longitude 169°58.0'W 0715-1225

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	8.8	34.049	6.66	8.18	2.34	1.26	8	0.13	14.9	0	8.8	34.05
9	8.80	.045	.68	.18	.34	1.00	7	.12	14.6	10	.80	.05
27	.78	.045	.66	.19	.34	0.91	6	.12	14.6	30	.78	.05
45	.78	.045	.69	.19	.34	1.08	7	.12	16.2	50	.75	.05
68	5.98	.074	.82	.16	.35	.40	11	.18	19.5	75	5.84	.07
91	5.75	.073	.82	.16	.34	.35	10	.35	20.2	100	.76	.08
137	.82	.149	.66	.15	.34	.33	13	.07	20.5	150	.78	.15
184	.60	.156	.60	.14	.34	.35	12	.05	21.7	200	.55	.17
277	.25	.170	.26	.11	.34	.52	18	.02	24.5	300	.14	.20
372	4.90	.212	5.83	.06	.34	.69	22	.02	25.6	400	4.71	.22
466	.42	.247	.48	.03	.35	.72	30	.02	30.4	500	.28	.25
561	3.94	.264	.27	.00	.35	.97	36	.02	31.7	600	3.71	.27
657	.39	.282	.08	7.98	.36	.98	43	.03	33.2	700	.22	.30
753	.06	.333	4.80	.95	.37	2.03	48	.02	34.9	800	2.94	.36
945	2.66	.434	.36	.91	.38	2.19	61	.01	36.8	1000	.59	.46
1137	.50	.528	.09	.89	.40	2.06	73	.02	35.4	1200	.49	.55
988	.61	.451	.31	.91	.39	2.02	65	.02	37.3	1500	.35	.65
1282	.43	.586	.07	.88	.39	2.16	77	.01	36.2	2000	.08	.73
1779	.22	.708	.22	.91	.41	1.86	83	.03	33.6	2500	1.71	.75
2274	1.87	.741	.31	.96	.44	1.82	90	.04	33.0	3000	.34	.74
2752	.51	.743	.53	.96	.44	1.96	99	.01	33.2	3500	.05	.72
3248	.20	.725	.76	.92	.42	1.84	109	.02	33.4	4000	0.90	.71
3732	0.97	.717	.65	.93	.44	2.02	116	.03	33.9	4500	0.90	.71
4217	.88	.711	.73	.93	.44	1.93	117	.01	34.1			
4708	.92	.705	.67	.94	.46	1.86	119	.01	33.9			

KH-68-4 Latitude 57°55.1'S January 14-15, 1969 Depth 4,550 meters Air Temperature 5.9°C
 Station 43 Longitude 169°58.4'W 2353-0347

Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved (ml/l)	O ₂	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	7.0	33.893	7.02	8.18	2.33	1.25	4	0.17	13.0	0	7.0	33.89	
9	6.86	.885	.06	.18	.33	.29	4	.15	13.4	10	6.86	.89	
26	6.86	.886	.04	.18	.33	.15	5	.15	11.1	30	.80	.89	
44	5.71	.883	.26	.19	.33	.23	6	.12	14.0	50	5.65	.88	
65	5.45	.885	.11	.18	.33	.38	5	.14	15.1	75	4.10	.90	
87	3.52	.914	.17	.13	.33	.47	13	.25	23.6	100	3.37	.92	
131	3.14	.922	.16	.12	.33	.69	16	.10	25.8	150	3.02	.94	
174	2.95	.956	.04	.11	.33	.75	18	.02	26.0	200	3.07	34.01	
261	3.43	34.134	6.03	.03	.33	.79	28	< .01	25.6	300	3.29	.15	
348	3.07	.172	5.76	.01	.34	.80	36	.00	29.3	400	2.93	.21	
435	2.88	.229	.38	7.98	.35	.77	43	.00	32.0	500	.81	.28	
521	2.79	.294	4.96	.95	.36	.82	51	.00	34.7	600	.66	.36	
610	2.64	.363	.61	.93	.37	.77	60	.00	33.0	700	.53	.42	
698	2.53	.416	.40	.91	.38	2.13	65	.00	36.3	800	.48	.49	
878	2.45	.520	.14	.90	.39	.20	71	.00	36.6	1000	.38	.58	
1065	2.35	.604	.07	.91	.39	1.95	81	.00	35.5	1200	.30	.64	
1300	2.25	.672	.10	.92	.40	.96	72	.00	33.3	1500	.19	.71	
1570	2.13	.715	.31	.93	.40	2.03	84	.00	31.7	2000	1.87	.74	
2025	1.82	.739	.49	.95	.41	.02	96	.00	32.1	2500	.44	.73	
2485	1.45	.731	.46	.99	.44	1.87	99	.00	33.4	3000	.13	.72	
2947	1.19	.722	.64	.97	.44	.92	97	.00	30.9	3500	0.93	.71	
3416	0.97	.713	.85	.92	.42	.83	103	.00	33.8	4000	0.86	.70	
3886	0.86	.705	.77	.96	.44	.95	113	.00	32.5	4500			
4360	0.87	.703	.76	.94	.45	2.03	113	.00	33.1				

KH-68-4 Latitude 59°59.8'S January 15, 1969 Depth 4,650 meters Air Temperature 5.5°C
 Station 44 Longitude 169°54.6'W 1745-2340

Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved (ml/l)	O ₂	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	5.89	33.888	7.12	8.17	2.34	1.37	7	0.13	20.3	0	5.89	33.89	
10	.90	.889	.18	.18	.34	.35	7	.14	20.5	10	.90	.89	
29	.88	.880	.16	.18	.34	.18	8	.15	20.4	30	.88	.88	
48	.80	.877	.17	.17	.34	.19	8	.17	20.4	50	.79	.88	
73	3.85	.940	.06	.12	.34	.79	15	.31	23.7	75	3.80	.95	
97	.25	.980	.01	.09	.33	.63	15	.35	26.4	100	.20	.98	
145	2.80	.961	.06	.09	.33	.80	19	.04	27.6	150	2.81	.96	
193	3.20	34.064	6.43	.05	.33	.88	22	.03	29.4	200	3.26	34.09	
290	.28	.190	5.62	7.99	.36	2.00	39	.02	32.7	300	3.24	.20	
388	2.95	.246	.27	.96	.36	.20	43	.02	32.8	400	2.89	.25	
485	.59	.313	4.88	.94	.37	.08	53	.01	36.1	500	.59	.32	
583	.57	.389	.51	.90	-	.13	63	.03	36.6	600	.56	.40	
681	.46	.455	.27	.88	.38	.33	64	.01	36.4	700	.46	.46	
778	.45	.508	.14	.87	.38	.31	69	.00	36.6	800	.44	.52	
972	.37	.596	.08	.87	.40	.33	79	.03	35.7	1000	.36	.61	
1164	.29	.662	.10	.93	.41	.23	79	.02	34.5	1200	.28	.67	
1483	.12	.718	.27	.94	.41	1.97	82	.04	33.8	1500	.11	.72	
1770	1.94	.737	.44	.93	.41	2.14	91	.04	33.3	2000	1.80	.74	
2251	.62	.736	.55	.93	.41	.10	106	.00	33.0	2500	.41	.73	
2734	.28	.728	.55	.97	.44	.03	107	.00	33.4	3000	.13	.72	
3214	.03	.721	.72	.96	.42	1.95	107	.01	33.9	3500	0.91	.71	
3693	0.87	.710	.86	.91	.42	2.23	122	.02	34.0	4000	0.87	.71	
4177	.87	.708	.71	.95	.45	.08	128	.00	34.3	4500	0.91	.70 ₅	
4655	.92	.704	.70	.96	.44	1.93	122	.00	34.4				

KH-68-4 Latitude 61°58.9'S January 16, 1969 Depth 3,350 meters Air Temperature 3.1°C
 Station 45 Longitude 169°57.6'W 1055-1440

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	4.18	33.919	7.63	8.16	2.34	1.62	13	0.27	22.8	0	4.18	33.92
8	4.24	.921	.65	.16	.34	.53	10	.27	23.4	10	.24	.92
26	4.24	.919	.64	.16	.34	.41	14	.27	23.6	30	.20	.92
42	2.98	.942	.54	.13	.35	.75	14	.25	25.2	50	2.60	.96
63	1.93	.989	.48	.09	.35	2.06	19	.22	27.6	75	1.45	34.01
84	1.26	34.026	.23	.06	.34	.02	22	.19	29.7	100	1.06	.08
125	0.96	.111	6.81	.02	.35	.15	33	.13	32.6	150	1.05	.18
166	1.16	.198	.13	7.97	.35	.28	34	.02	34.3	200	1.27	.25
250	1.42	.313	5.53	.93	.38	.38	48	.01	35.7	300	1.86	.38
334	2.10	.462	4.38	.87	.39	.42	55	.00	37.2	400	2.06	.51
419	2.04	.534	.22	.87	.33	.18	78	.01	37.0	500	2.20	.59
505	2.20	.597	.09	.86	.39	.26	83	.00	36.9	600	2.20	.64
593	2.20	.634	.10	.86	.39	.34	83	.00	36.1	700	2.17	.67
681	2.18	.662	.14	.87	.39	.20	87	.00	35.4	800	2.13	.69
863	2.11	.701	.24	.89	.40	.17	81	.02	34.3	1000	2.04	.72
1056	2.00	.727	.34	.93	.40	.23	91	.00	32.5	1200	1.88	.74
1154	1.91	.739	.41	.93	.40	1.96	95	.01	33.6	1500	1.64	.74
1434	1.68	.742	.55	.92	.40	2.02	103	.00	33.3	2000	1.23	.73
1914	1.30	.730	.67	.93	.41	.10	111	.01	33.4	2500	0.89	.72
2407	0.94	.717	.71	.95	.43	.02	118	.00	34.0	3000	0.78	.71
2896	0.78	.710	.81	.93	.43	1.94	123	.00	34.5			
3377	0.81	.707	.86	7.90	.42	2.15	131	.01	34.2			

KH-68-4 Latitude 63°58.9'S January 17, 1969 Depth 2,700 meters Air Temperature 2.4°C
 Station 46 Longitude 170°01.7'W 0525-0800

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	2.4	34.034	7.91	8.15	2.36	1.53	27	0.28	25.9	0	2.4	34.03
10	2.36	.028	.95	.16	.36	.71	29	.28	26.3	10	.36	.03
28	2.34	.032	.98	.18	.35	.71	29	.28	26.0	30	.32	.03
48	1.74	.054	.87	.17	.35	.60	37	.27	27.2	50	1.74	.06
71	1.72	.113	.79	.15	.35	.92	50	.26	28.0	75	.70	.12
95	0.02	.147	.56	.13	.35	2.00	52	.23	30.5	100	-0.15	.15
145	-0.83	.229	.92	.13	.36	.23	67	.18	30.8	150	-0.81	.23
191	-0.44	.295	.13	.07	.36	.35	81	.15	32.8	200	-0.25	.32
288	1.85	.588	4.26	7.95	.39	.44	85	.00	35.4	300	1.87	.60
385	.92	.641	.24	.95	.39	.28	83	.00	34.7	400	.92	.65
482	.87	.675	.24	.95	.39	.17	88	.00	34.4	500	.86	.68
579	.83	.691	.33	.95	.39	.23	87	.00	33.9	600	.84	.70
677	.89	.720	.38	.97	.39	.30	86	.00	33.3	700	.87	.72
774	.81	.723	.45	.96	.40	.21	86	.02	33.2	800	.78	.72
970	.62	.727	.52	.97	.40	.14	95	.00	33.3	1000	.60	.73
1166	.46	.727	.59	.96	.40	.08	101	.00	32.4	1200	.43	.73
1104	.53	.728	.56	.93	.40	.08	100	.00	34.0	1500	.18	.72
1392	.26	.721	.68	.95	.42	.04	106	.01	32.8	2000	0.85	.70
1883	0.91	.705	.77	.94	.40	.31	113	.00	33.9	2500	0.68	.70
2370	.70	.697	.83	.94	.42	.23	122	.00	34.1			
2850	.71	.696	.82	.94	.42	.19	124	.01	33.6			

KH-68-4 Latitude 66°00.0'S January 17, 1969 Depth 3,250 meters Air Temperature -0.2°C
 Station 47 Longitude 170°00.0'W 1938-2310

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	1.18	34.169	8.11	8.14	2.37	1.63	48	0.23	22.3	0	1.18	34.17
10	.18	.175	.11	.15	.37	.77	47	.23	25.3	10	.18	.18
29	0.87	.172	.17	.15	.37	.70	46	.22	26.2	30	0.85	.17
48	.67	.182	.09	.13	.37	.60	49	.22	24.9	50	.62	.18
73	-1.03	.261	7.83	.08	.37	2.25	63	.16	28.5	75	-1.12	.22
97	-1.48	.316	.72	.06	.37	.24	65	.15	30.9	100	-1.47	.32
145	-0.21	.477	6.18	7.99	.38	.27	73	.01	33.2	150	0.00	.50
193	1.03	.626	4.91	.94	.39	.34	81	.03	34.4	200	1.11	.64
290	1.42	.699	.57	.93	.40	.28	85	.00	34.2	300	1.41	.70
386	1.31	.710	.61	.93	.40	.30	90	.00	33.6	400	1.30	.71
484	1.25	.713	.64	.94	.41	.27	92	.00	34.4	500	1.25	.72
580	1.25	.722	.66	.95	.41	.21	98	.00	34.1	600	1.23	.72
678	1.16	.718	.64	.94	.41	.28	98	.00	39.9	700	1.14	.72
776	1.08	.716	.66	.94	.41	.31	103	.00	34.1	800	1.07	.72
972	0.94	.709	.72	.94	.41	.24	106	.00	32.8	1000	0.92	.71
1310	.75	.707	.77	.94	.42	.13	112	.00	34.3	1200	0.80	.71
1504	.64	.701	.80	.94	.42	.32	115	.00	34.7	1500	0.65	.70
1795	.49	.694	.91	.92	.42	.20	119	.00	35.1	2000	0.41	.70
2278	.31	.696	.98	.92	.42	.17	122	.00	34.7	2500	0.23	.70
2760	.16	.695	5.06	.94	.43	.28	119	.00	35.1	3000	0.16	.70
3243	.16	.696	.08	.92	.42	.34	123	.00	34.2			

KH-68-4 Latitude 68°00.1'S January 18, 1969 Depth 3,695 meters Air Temperature -1.0°C
 Station 48 Longitude 170°06.9'W 1348-1720

Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (μgāt/l)	SiO ₂ -Si (μgāt/l)	NO ₂ -N (μgāt/l)	NO ₃ -N (μgāt/l)	Interpolated		
										Depth	Water Temp.	Salinity
0	1.00	34.120	8.48	8.23	2.37	1.45	64	0.09	21.0	0	1.00	34.12
10	0.87	.125	.58	.25	.37	.45	67	.07	21.2	10	0.87	.13
29	0.05	.113	.49	.24	.37	.50	67	.06	22.3	30	0.04	.11
48	-0.06	.132	.12	.21	.37	.72	67	.07	23.0	50	-0.10	.14
72	-1.65	.286	6.98	.07	.37	2.17	73	.08	30.5	75	-1.75	.29
96	-1.66	.320	.97	.07	.37	1.95	70	.10	31.7	100	-1.55	.32
144	-0.40	.464	5.81	.01	.38	2.17	78	.04	33.7	150	-0.22	.49
192	0.86	.629	4.82	7.97	.40	.17	89	.03	34.6	200	0.93	.64
288	1.36	.706	-	.95	.40	.27	98	.01	34.8	300	1.36	.71
384	1.37	.726	4.43	.96	.40	.27	107	.01	34.6	400	.35	.73
480	1.28	.729	4.47	.96	.41	.18	108	.00	34.8	500	.27	.73
576	1.24	.727	.54	.96	.41	.00	105	.00	34.9	600	.23	.73
672	1.16	.727	.56	.96	.41	.14	108	.01	34.8	700	.15	.73
768	1.09	.725	.60	.96	.41	.20	108	.00	34.8	800	.07	.72
962	0.96	.721	.64	.97	.41	.14	113	.01	34.6	1000	0.93	.72
1157	0.84	.721	.73	.97	.42	.17	113	.03	34.6	1200	.82	.72
935	0.97	.720	.63	.96	.41	.10	114	.01	35.0	1500	.67	.71
1223	0.81	.712	.73	.96	.41	.09	119	.03	34.9	2000	.45	.70
1703	0.58	.705	.83	.96	.42	.17	124	.00	34.6	2500	.27	.70
2184	0.36	.704	.93	.98	.43	.13	125	.01	35.0	3000	.13	.71
2664	0.22	.703	5.00	.96	.42	.25	126	.01	35.1	3500	.06	.71
3145	0.09	.709	.23	.94	.42	1.93	116	.04	34.8			
3625	0.05	.711	.23	.94	.42	2.15	116	.02	34.8			

KH-68-4 Station 49		Latitude 69°29.4'S Longitude 169°57.3'W	January 19, 1969 1047-1540		Depth 4,230 meters		Air Temperature -0.2°C						
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved (ml/l)	O ₂	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	-0.07	33.715	8.45	8.23	2.35	1.39	60	0.06	21.2	0	-0.07	33.72	
9	-0.06	.729	.48	.24	.35	.45	59	.08	20.9	10	-0.06	.73	
27	-0.66	.764	.50	.25	.36	.58	56	.07	22.2	30	-1.15	.80	
44	-1.78	34.294	6.92	.12	.38	.86	67	.06	29.0	50	-1.78	34.32	
67	-1.76	.347	.63	.10	.39	1.98	66	.07	30.1	75	-1.75	.36	
89	-1.74	.376	.64	.10	.39	.11	62	.04	31.2	100	-1.66	.39	
134	-0.77	.449	.00	.06	.39	.12	74	.02	32.2	150	-0.05	.50	
178	0.58	.602	4.94	.00	.40	.24	82	.01	34.3	200	0.87	.64	
268	1.28	.703	.47	7.98	.40	.25	95	.00	34.7	300	1.33	.72	
357	.35	.724	.37	.97	.40	.15	106	.00	34.5	400	1.34	.73	
447	.31	.729	.40	.98	.41	.20	106	.00	34.4	500	.28	.73	
538	.26	.728	.44	.97	.41	.21	106	.00	34.4	600	.21	.73	
628	.19	.725	.50	.98	.41	.21	103	.00	33.7	700	.15	.73	
720	.13	.726	.58	.98	.41	.35	105	.00	33.7	800	.06	.73	
908	0.99	.723	.66	.98	.42	.24	114	.00	33.9	1000	0.92	.72	
1102	.84	.715	.69	.92	.42	.32	114	.01	33.9	1200	.80	.72	
1192	.81	.725	.69	.96	.42	.20	115	.00	34.3	1500	.68	.71	
1483	.70	.716	.82	.94	.42	.34	121	.00	34.7	2000	.50	.70	
1967	.51	.706	.84	.95	.43	.16	126	.00	34.2	2500	.32	.70	
2451	.33	.703	.85	.98	.45	.25	125	.00	34.6	3000	.17	.70	
2932	.19	.701	.98	.99	.45	.24	125	.00	34.5	3500	.06	.71	
3413	.08	.708	5.25	.93	.42	.16	119	.00	34.1	4000	.04	.71	
3896	.04	.712	.14	.98	.45	.24	115	.00	34.4				
4186	.04	.714	.18	.97	.45	.14	114	.00	34.1				

KH-68-4 Station 50		Latitude 66°44.0'S Longitude 179°56.6'E		January 20-21, 1969 2045-0025			Depth 3,800 meters		Air Temperature 0.7°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	1.3	34.190	8.00	8.14	2.37	1.58	53	0.24	26.0	0	1.3	34.19
9	1.45	.145	.05	.13	.37	.57	52	.24	25.9	10	.45	.15
28	.10	.205	.11	.13	.37	.58	61	.22	26.2	30	.05	.20
46	.01	.203	.09	.14	.37	.64	53	.22	26.4	50	0.98	.20
70	0.21	.215	.02	.11	.37	.76	59	.20	27.8	75	-0.50	.23
93	-1.36	.301	7.73	.08	.38	.81	66	.17	30.5	100	-1.34	.32
140	-0.34	.460	6.31	7.99	.38	2.00	75	.03	33.5	150	0.10	.50
187	0.83	.619	5.03	.95	.39	1.97	86	.02	34.0	200	.95	.64
281	1.17	.693	4.70	.94	.40	2.07	91	.00	35.1	300	1.16	.70
376	.14	.705	.71	.94	.41	.00	95	.03	34.2	400	1.12	.71
471	.05	.709	.70	.94	.40	.03	100	.00	34.6	500	.04	.71
569	.02	.711	.75	.94	.40	.03	106	.00	34.6	600	.00	.71
662	0.95	.705	.76	.94	.40	.03	104	.00	34.9	700	0.92	.71
762	.90	.706	.77	.94	.40	.03	105	.00	34.6	800	.87	.71
951	.80	.704	.80	.94	.42	.10	106	.00	34.9	1000	.77	.70
1145	.69	.696	.82	.95	.42	.09	113	.00	34.2	1200	.67	.70
1060	.74	.705	.74	.96	.42	.31	113	.01	36.0	1500	.56	.70
1346	.64	.699	.82	.94	.42	.15	119	.01	34.9	2000	.33	.69
1824	.42	.693	.92	.94	.42	1.97	123	.00	35.1	2500	.18	.69
2304	.22	.688	.99	.94	.42	2.18	122	.00	35.4	3000	.05	.70
2783	.14	.698	5.08	.94	.42	.10	118	.00	35.1	3500	-0.01	.71
3260	-0.01	.705	.28	.92	.41	.27	113	.00	34.7			
3742	-0.01	.708	.26	.93	.43	1.99	114	.00	35.0			

KH-68-4 Latitude 66°30.0'S January 21, 1969 Depth 3,180 meters Air Temperature 1.2°C
 Station 51 Longitude 170°08.0'E 1805-2055

Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved (ml/l)	O ₂	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	-0.42	34.079	7.80	8.10	2.37	1.93	71	0.15	27.8	0	-0.42	34.08	
10	-0.51	.091	.80	.11	.37	.84	72	.16	28.1	10	-0.51	.09	
29	-0.50	.099	.76	.11	.37	.94	71	.15	28.0	30	-0.50	.10	
49	-1.61	.306	.21	.09	.38	2.02	75	.09	30.1	50	-1.62	.31	
73	-1.68	.351	6.99	.07	.38	.14	79	.12	31.3	75	-1.64	.37	
97	-0.92	.456	.19	.03	.39	.07	79	.09	33.3	100	-0.80	.48	
146	0.48	.602	5.06	7.98	.39	.24	90	.05	34.0	150	0.52	.61	
195	.98	.661	4.66	.95	.40	.36	94	.04	34.7	200	1.00	.67	
293	1.28	.711	.44	.94	.39	.26	101	.04	34.8	300	.28	.71	
392	.25	.723	.44	.94	.40	.23	108	.04	34.3	400	.24	.72	
491	.20	.719	.43	.95	.42	.20	110	.02	35.2	500	.19	.72	
590	.15	.718	.52	.95	.42	.20	110	.03	34.8	600	.14	.72	
689	.08	.717	.54	.96	.42	.20	110	.03	34.8	700	.07	.72	
788	.02	.715	.58	.95	.42	.42	113	.04	35.5	800	.01	.72	
986	0.90	.716	.62	.95	.42	.34	117	.03	35.0	1000	0.89	.72	
1185	.82	.710	.68	.95	.42	.33	119	.01	34.8	1200	.80	.71	
1402	.66	.704	.76	.95	.43	.42	121	.03	34.8	1500	.57	.70	
1691	.51	.699	.84	.94	.42	.34	127	.03	35.0	2000	.40	.70	
2172	.35	.702	.91	.93	.43	.09	129	.03	34.6	2500	.21	.70	
2656	.16	.705	5.09	.93	.43	.31	117	.03	34.9	3000	.08	.71	
3141	.06	.714	.34	.94	.43	.34	113	.03	34.8				

KH-68-4 Latitude 63°03.8'S January 23-24,1969 Depth 3,005 meters Air Temperature 1.3°C
 Station 52 Longitude 154°53.6'E 1845-0027

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	1.30	33.600	8.04	8.17	2.33	1.42	24	0.30	23.8	0	1.30	33.60
7	1.30	.598	.06	.18	.32	.39	23	.31	23.7	10	.30	.60
21	1.29	.597	.08	.18	.32	.39	23	.32	24.0	30	.20	.60
35	-0.12	.727	7.67	.15	.33	.91	38	.30	27.0	50	-0.87	34.20
53	-0.88	.263	6.52	.03	.35	2.25	64	.20	33.6	75	0.45	.48
74	0.43	.474	5.27	7.96	.36	.23	73	.16	36.2	100	1.30	.59
108	1.45	.606	4.36	.92	.38	.29	83	.04	36.3	150	.71	.66
146	1.69	.656	.22	.92	.38	.27	84	.02	36.4	200	.76	.68
222	1.77	.688	.25	.93	.38	.11	86	.01	35.9	300	.76	.71
298	.76	.713	.35	.94	.38	.18	85	.01	34.7	400	.72	.73
377	.73	.730	.38	.96	.40	.18	87	.00	34.9	500	.62	.74
376	.73	.729	.44	.97	.40	.18	87	.01	34.4	600	.53	.74
459	.66	.737	.50	.94	.42	.11	90	.00	34.0	700	.45	.74
554	.56	.738	.57	.96	.41	.09	91	.00	33.9	800	.37	.74
740	.42	.737	.66	.98	.43	.08	93	.01	33.9	1000	.20	.73
1079	.11	.731	.71	.93	.42	.22	103	.00	34.9	1200	.00	.73
1273	0.94	.721	.77	.94	.42	.27	104	.03	33.8	1500	.72	.71
1563	0.67	.705	.85	.94	.41	1.97	113	.00	34.4	2000	.39	.69
2046	.37	.689	.97	.93	.42	.93	119	.00	35.1	2500	0.15	.68
2529	.14	.683	5.08	.95	.43	2.16	119	.00	35.0	3000	-0.03	.69
3008	-0.03	.688	.24	.96	.43	2.21	113	.01	34.7			

KH-68-4 Latitude 60°00.3'S January 24, 1969 Depth 3,000 meters Air Temperature 4.2°C
 Station 53 Longitude 155°02.5'E 1607-1855

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	3.91	33.892	7.60	8.17	2.36	1.29	11	0.28	22.3	0	3.91	33.89
10	.82	.895	.64	.18	.36	.43	11	.28	22.4	10	.82	.90
29	2.81	.950	.82	.16	.36	.58	16	.24	24.2	30	2.77	.95
49	0.94	34.029	.70	.11	.36	2.06	32	.24	27.0	50	1.80	34.03
73	-0.40	.139	.59	.07	.36	.08	45	.26	30.3	75	-0.40	.14
97	-0.05	.212	6.70	.02	.36	.27	51	.18	32.8	100	0.05	.23
145	1.93	.524	4.13	7.90	.38	.47	71	.02	36.2	150	1.94	.53
194	.95	.567	.04	.89	.39	.45	74	.01	36.5	200	.96	.57
290	2.00	.634	.03	.90	.40	.37	78	.02	36.2	300	2.00	.64
386	1.99	.674	.10	.91	.40	.15	81	< .01	34.2	400	1.99	.67
482	.95	.701	.18	.92	.41	.05	81	.00	33.7	500	.95	.70
578	.94	.718	.31	.93	.40	.08	83	.00	33.1	600	.93	.72
675	.88	.733	.38	.93	.41	.07	87	.00	32.3	700	.87	.73
771	.82	.734	.44	.94	.41	.02	88	.00	31.0	800	.80	.74
965	.63	.744	.47	.95	.41	.04	87	< .01	33.2	1000	.59	.74
1159	.43	.737	.61	.94	.42	.19	95	.00	32.4	1200	.38	.74
1217	.37	.743	.62	.95	.42	.24	96	.00	33.2	1500	.15	.72
1504	.15	.723	.71	.94	.42	.14	100	.00	33.8	2000	0.77	.71
1983	0.78	.708	.79	.93	.43	.04	106	.00	33.2	2500	.46	.70
2467	.47	.697	.94	.95	.44	.12	110	.00	33.6	3000	(.34)	(.69)
2958	.35	.693	5.00	.96	.44	.23	119	.00	34.2			

() extrapolated value

KH-68-4 Latitude 57°05.3'S January 25, 1969 Depth 3,620 meters Air Temperature 7.6°C
 Station 54 Longitude 155°01.9'E 1240-1550

Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved (ml/l)	O ₂	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	33.866	7.54	8.22	2.34	1.29	11	0.25	18.3	0	5.7	33.87	
10	5.59	.857	.64	.23	.34	.10	12	.24	18.3	10	.59	.86	
29	5.20	.876	.77	.22	.34	.20	12	.24	19.1	30	.18	.89	
48	3.80	.903	.66	.17	.34	.53	15	.30	21.6	50	3.65	.90	
72	1.82	.921	.60	.11	.34	2.20	28	.27	23.2	75	1.60	.92	
95	0.66	.947	.61	.10	.34	.20	32	.31	28.5	100	0.51	.95	
143	.12	34.058	.22	.06	.35	.18	45	.19	30.7	150	.21	34.09	
190	1.57	.284	5.19	7.94	.36	.38	59	.02	33.9	200	1.55	.30	
286	1.32	.365	.02	.92	.37	.52	72	.04	34.6	300	.42	.39	
382	2.24	.537	4.07	.88	.38	.34	89	.01	34.9	400	2.23	.55	
478	.17	.588	.01	.89	.39	.32	89	.00	35.1	500	.16	.60	
574	.14	.623	.03	.89	.39	.28	89	.00	34.9	600	.15	.64	
670	.18	.669	.14	.90	.39	.27	89	.00	32.8	700	.17	.68	
766	.11	.693	.23	.92	.40	.34	87	.00	32.8	800	.10	.70	
961	.02	.726	.35	.93	.40	.31	98	.00	30.6	1000	.01	.73	
1158	1.94	.734	.42	.93	.41	.11	92	.01	31.7	1200	1.87	.74	
1409	1.69	.740	.54	.94	.41	.21	95	.01	30.8	1500	.59	.74	
1696	.42	.732	.66	.93	.41	.27	110	.00	31.5	2000	.22	.72	
2170	.13	.718	.73	.93	.42	.28	117	.00	30.2	2500	0.89	.71	
2648	0.78	.703	.81	.94	.43	.11	120	.00	32.5	3000	.63	.70	
3125	.59	.699	.90	.93	.43	.27	123	.00	33.3	3500	.50	.69	
3606	.49	.688	5.11	.91	.42	.26	120	.02	33.2				

KH-68-4 Latitude 53°56.9'S January 26-27, 1969 Depth 4,200 meters Air Temperature 7.7°C
 Station 55 Longitude 155°08.0'E 2200-0150

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	33.972	6.76	8.18	2.33	1.23	6	0.17	16.8	0	7.8	33.97
9	.82	.979	.79	.18	.33	.29	8	.16	17.5	10	.82	.98
28	.64	34.036	.83	.18	.33	.31	8	.16	17.7	30	.64	34.04
47	.62	.050	.79	.18	.33	.10	7	.16	17.2	50	.60	.06
71	.78	.127	.73	.20	.33	.55	10	.26	18.4	75	6.20	.13
95	5.06	.090	.82	.12	.33	.52	11	.30	22.5	100	5.00	.09
142	4.70	.090	.72	.12	.33	.53	18	.06	24.3	150	4.57	.09
190	.17	.054	.69	.12	.33	.55	18	.04	25.2	200	.19	.07
285	.83	.224	5.68	.05	.34	.56	24	.03	28.4	300	.81	.23
381	.40	.257	.35	.02	.36	.87	33	.01	29.8	400	.31	.26
477	3.90	.266	.20	.00	.36	.86	37	.01	31.8	500	3.85	.27
573	.59	.293	4.99	7.97	.36	.93	43	.01	33.0	600	.40	.29
669	.04	.295	.92	.95	.37	2.06	45	.02	33.2	700	.01	.31
765	2.99	.366	.56	.93	.37	.10	52	.01	35.4	800	2.96	.38
959	.74	.457	.21	.90	.38	.24	65	.03	36.6	1000	.69	.48
1153	.54	.541	.03	.89	.39	.14	72	.01	34.9	1200	.51	.56
1003	.68	.481	.12	.90	.39	.28	70	.02	35.9	1500	.40	.66
1292	.47	.593	.03	.89	.39	.35	77	.03	35.1	2000	.10	.73
1773	.26	.711	.25	.92	.40	.05	85	.01	33.2	2500	1.67	.74
2254	1.89	.743	.42	.96	.43	.04	91	.00	32.7	3000	.25	.72
2736	.45	.731	.56	.98	.44	.13	105	.02	32.5	3500	0.91	.71
3215	.10	.714	.77	.93	.42	.16	114	.02	32.9	4000	.70	.70
3706	0.77	.703	.76	.95	.45	.15	122	.00	33.0			
4193	.69	.694	.87	.94	.45	1.92	124	.03	34.0			

KH-68-4 Latitude 51°10.4'S January 27-28, 1969 Depth 4,465 meters Air Temperature 10.9°C
 Station 56 Longitude 155°23.9'E 2158-0418

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	10.7	34.579	6.39	8.20	2.34	0.84	6	0.14	9.6	0	10.7	34.58
10	.65	.575	.39	.20	.34	.79	7	.14	9.4	10	.65	.58
28	.63	.581	.41	.21	.34	.80	6	.14	9.5	30	.62	.58
47	.52	.593	.41	.21	.34	.79	6	.14	9.6	50	.50	.59
71	.33	.600	.43	.20	.34	.88	7	.15	9.8	75	.27	.60
95	9.74	.565	.38	.19	.34	.98	7	.23	11.5	100	9.66	.57
142	8.77	.624	.17	.14	.34	1.17	10	.25	14.3	150	8.68	.62
189	.48	.603	.12	.14	.34	.16	11	.07	15.8	200	.43	.60
284	.22	.585	.20	.14	.34	.20	13	.02	17.1	300	.20	.59
380	.00	.558	.27	.13	.34	.18	12	.02	16.9	400	7.98	.55
485	7.77	.531	.28	.13	.34	.22	13	.02	18.5	500	.77	.53
581	.72	.513	.28	.13	.34	.25	13	.02	17.4	600	.70	.51
676	6.99	.405	.03	.10	.34	.43	13	.02	21.0	700	6.82	.39
771	.34	.383	5.19	.01	.34	.82	18	.02	26.4	800	.11	.38
961	4.70	.337	4.90	7.97	.35	2.08	34	.04	30.4	1000	4.47	.34
1155	3.67	.365	.55	.93	.38	.18	50	.01	33.9	1200	3.50	.38
1339	.05	.443	.29	.91	.39	.40	64	.05	36.4	1500	2.76	.51
1630	2.60	.561	.06	.88	.39	.34	78	.01	35.8	2000	.40	.67
2107	.35	.705	.24	.91	.42	.10	91	.00	33.7	2500	.02	.74
2583	1.93	.746	.40	.96	.44	.01	97	.02	32.8	3000	1.53	.74
3059	.49	.736	.55	.97	.45	.17	103	.01	33.7	3500	.18	.72
3534	.15	.719	.77	.91	.42	.18	115	.01	33.9	4000	0.98	.71
4009	0.98	.709	.69	.96	.45	.13	121	.02	33.5			
4487	.83	.699	.77	.95	.45	.08	120	.01	34.1			

KH-68-4 Latitude 47°59.6'S January 29, 1969 Depth 4,775 meters Air Temperature 10.1°C
 Station 57 Longitude 155°04.2'E 0256-0820

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	11.77	34.594	6.33	8.22	2.35	0.71	7	0.10	7.4	0	11.77	34.59
10	.85	.598	.34	.22	.35	.71	9	.10	7.3	10	.85	.60
29	.86	.594	.33	.22	.35	.74	9	.11	7.4	30	.86	.59
48	.82	.599	.33	.22	.35	.77	8	.11	7.4	50	.80	.60
72	10.54	.600	.25	.17	.35	.96	10	.18	11.0	75	10.40	.60
95	9.38	.607	.21	.17	.35	1.06	9	.45	12.6	100	9.29	.61
-	-	-	-	-	-	-	-	-	-	150	8.87	.62
-	-	-	-	-	-	-	-	-	-	200	8.69	.62
174	8.77	.626	.13	.14	.34	1.22	12	0.03	15.6	300	8.46	.61
268	.50	.608	.13	.14	.34	.19	14	.03	16.2	400	8.36	.61
367	.38	.606	.25	.16	.34	.16	14	.03	16.3	500	8.20	.60
456	.34	.607	.24	.15	.34	.03	14	.01	16.6	600	7.79	.52
555	7.96	.561	.09	.15	.34	.25	13	.03	17.8	700	.22	.47
643	.52	.487	5.99	.12	.34	.31	13	.03	19.7	800	6.54	.44
846	6.18	.426	4.81	.02	.34	.68	30	.03	28.0	1000	4.71	.37
1019	4.47	.360	.70	7.99	.37	.93	39	.02	32.2	1200	3.59	.38
1008	.66	.363	.79	.87	.36	2.12	38	.01	32.4	1500	2.89	.51
1297	3.26	.419	.41	.93	.37	.33	58	.01	35.3	2000	.42	.66
1778	2.57	.612	3.87	.90	.40	1.98	80	.01	35.4	2500	.09	.73
2306	.23	.713	4.16	.96	.43	2.08	90	.00	33.3	3000	1.68	.74
2785	1.83	.743	.38	.98	.44	.14	99	.00	33.6	3500	.31	.73
3263	.45	.729	.56	.93	.42	.22	110	.01	34.1	4000	.10	.72
3833	.17	.724	.56	.96	.45	.22	117	.00	34.5			
4287	.00	.715	.65	.96	.45	.19	122	.00	34.6			

KH-68-4 Latitude 46°54.9'S January 29, 1969 Depth 4,700 meters Air Temperature 11.8°C
 Station 58 Longitude 155°02.9'E 1735-2107

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	12.6	34.619	6.31	8.24	2.39	0.46	8	0.08	2.2	0	12.6	34.62
10	.68	.604	.33	.27	.36	.66	8	.08	2.4	10	.68	.60
29	.61	.606	.31	.26	.36	.64	7	.09	3.5	30	.60	.61
49	10.33	.605	.09	.20	.34	.75	7	.88	5.2	50	10.30	.61
73	9.82	.606	.08	.19	.34	.86	11	.23	8.8	75	9.82	.61
97	.82	.667	.03	.20	.35	.72	6	.04	9.5	100	.82	.67
146	.55	.658	.05	.17	.35	1.01	8	.04	9.4	150	.50	.66
195	8.98	.599	5.99	.14	.36	1.07	12	.02	14.9	200	8.96	.60
293	.81	.622	.84	.13	.34	.17	12	.02	16.4	300	.80	.62
391	.49	.590	.87	.12	.34	.22	14	.05	17.2	400	.43	.59
489	.29	.575	6.02	.13	.35	.14	14	.02	17.8	500	.26	.57
587	.00	.532	5.83	.10	.36	.23	16	.03	19.1	600	7.90	.52
686	7.21	.455	.26	.04	.36	.39	19	.03	23.5	700	.13	.45
784	6.58	.431	4.82	.00	.35	.59	22	.03	26.9	800	6.42	.42
982	4.84	.364	.69	7.96	.36	.87	39	.01	31.1	1000	4.70	.37
1180	3.70	.388	.45	.93	.45	2.20	54	.01	33.4	1200	3.59	.39
1518	2.91	.510	3.94	.88	.39	.10	73	.03	35.7	1500	2.93	.50
1803	.57	.614	.95	.87	.41	.21	82	.02	34.8	2000	.45	.67
2284	.21	.715	4.19	.89	.41	.13	88	.00	33.8	2500	.01	.73
2766	1.84	.737	.34	.93	.43	.01	94	.00	32.7	3000	1.62	.73
3245	.47	.730	.49	.93	.45	.00	106	.02	31.6	3500	.30	.72
3721	.17	.715	.68	.90	.43	.18	115	.02	32.8	4000	.05	.71
4196	.01	.708	.69	.92	.45	.14	114	.03	33.4	4500	0.98	.71
4670	0.96	.705	4.74	.92	.45	.05	119	.01	33.4			

KH-68-4 Latitude 44°03.1'S January 30, 1969 Depth 4,650 meters Air Temperature 14.2°C
 Station 59 Longitude 155°02.4'E 1337-1740

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	14.6	34.712	6.14	8.25	2.35	0.31	11	0.03	0.9	0	14.6	34.71
9	.31	.716	.19	.25	.35	.33	12	.04	1.0	10	.30	.72
28	13.80	.713	.21	.27	.35	.32	13	.03	1.1	30	13.79	.71
46	.66	.708	.15	.25	.35	.35	10	.04	1.4	50	.60	.71
69	10.96	.736	5.96	.18	.36	.76	13	.60	7.7	75	10.80	.75
92	.55	.786	.91	.19	.37	.78	7	.03	10.7	100	.40	.78
138	9.86	.764	.79	.16	.35	.99	14	.04	12.8	150	9.79	.76
185	.54	.736	.66	.15	.35	.92	10	.03	14.2	200	.48	.73
278	.00	.663	.65	.13	.35	1.16	18	.01	16.5	300	8.91	.65
371	8.55	.603	.64	.12	.35	.23	15	.03	18.0	400	.43	.69
464	.16	.546	.54	.11	.35	.38	20	.01	19.0	500	.05	.53
557	7.87	.514	.34	.08	.35	.39	22	.01	21.7	600	7.67	.50
651	.36	.481	4.94	.04	.35	.42	20	.03	24.3	700	.07	.47
745	6.70	.456	.67	.02	.35	.72	26	.01	26.8	800	6.31	.44
935	5.18	.396	.53	7.98	.37	.98	40	.01	31.3	1000	4.70	.39
1129	3.94	.416	.14	.92	.43	2.00	56	.02	34.2	1200	3.72	.44
1016	4.54	.385	.61	.94	.37	.10	45	.03	32.1	1500	.03	.55
1306	3.48	.479	3.98	.90	.39	.33	66	.03	35.3	2000	2.35	.68
1787	2.57	.632	.82	.89	.41	.36	85	.01	35.3	2500	1.98	.73
2266	.16	.716	4.11	.94	.44	1.98	90	.02	33.8	3000	.60	.73
2745	1.80	.731	.29	.96	.45	2.07	101	.01	33.4	3500	.29	.72
3224	.43	.729	.59	.92	.43	.18	108	.01	33.4	4000	.10	.72
3701	.19	.721	.56	.95	.46	.08	118	.01	33.7	4500	.02	.71
4177	.06	.714	.55	.94	.46	.08	119	.01	34.3			
4655	.01	.710	.56	.95	.46	.02	118	.02	33.5			

KH-68-4 Station 60		Latitude 41°01.8'S Longitude 155°02.3'E		January 31, 1969 1410-1850		Depth 4,595 meters		Air Temperature 18.2°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	17.6	35.104	5.70	8.25	2.37	0.22	10	0.00	0.0	0	17.6	35.10
9	.49	.095	.73	.25	.37	.20	9	.00	0.0	10	.48	.10
28	16.99	.168	.72	.25	.38	.19	10	.00	0.0	30	.00	.17
46	17.10	.213	.66	.25	.37	.23	9	.01	0.0	50	.07	.25
69	14.60	.272	.44	.20	.38	.41	8	.33	2.9	75	13.85	.03
92	12.65	.014	.70	.19	.37	.53	9	.22	6.2	100	12.45	.01
138	.00	.025	.60	.17	.36	.76	11	.01	8.7	150	11.92	.05
184	11.83	.107	.06	.13	.37	.79	11	.00	11.0	200	.72	.08
275	10.83	34.958	.04	.11	.36	1.01	14	.01	13.7	300	10.45	34.90
366	9.57	.738	.34	.10	.37	.16	14	.01	15.7	400	9.36	.71
455	.02	.679	.15	.09	.37	.20	17	.00	18.7	500	8.68	.62
545	8.30	.564	.46	.08	.35	.34	17	.01	19.8	600	.00	.54
635	7.79	.522	4.99	.05	.35	.45	17	.00	23.3	700	7.48	.52
724	.34	.523	.53	.00	.35	.67	24	.00	26.3	800	6.77	.49
906	5.88	.450	.37	7.97	.36	2.00	35	.00	30.6	1000	5.15	.44
1095	4.51	.440	.15	.96	.38	.03	53	.00	33.3	1200	4.11	.47
1423	3.36	.535	.69	.89	.41	.33	82	.00	36.4	1500	3.17	.55
1713	2.70	.613	.74	.89	.42	.39	90	.01	36.8	2000	2.39	.66
2189	.22	.698	.10	.91	.42	.25	91	.00	34.5	2500	1.99	.72
2673	1.84	.730	.28	.96	.45	.08	101	.00	33.8	3000	.62	.73
3154	.52	.726	.43	.95	.45	.08	104	.00	33.2	3500	.28	.72
3629	.21	.714	.61	.91	.45	.23	114	.01	33.1	4000	.12	.71
4109	.10	.711	.55	.95	.46	.08	118	.00	34.8	4500	.08	.71
4585	.07	.707	.53	.94	.46	1.99	122	.00	34.9			

KH-68-4 Latitude 38°02.2'S February 1, 1969 Depth 4,500 meters Air Temperature 19.5°C
 Station 61 Longitude 154°56.2'E 1750-2240

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	20.0	35.490	5.44	8.23	2.40	0.24	10	0.00	0.2	0	20.0	35.49
9	19.56	.483	.47	.23	.39	.23	9	.00	0.1	10	19.54	.48
28	.11	.460	.50	.24	.38	.23	8	.00	0.0	30	.05	.46
47	16.66	.443	.90	.25	.38	.24	10	.00	0.0	50	16.15	.44
71	14.64	.399	.61	.21	.38	.44	9	.64	2.6	75	14.50	.39
94	.02	.379	.41	.20	.38	.56	9	.02	5.2	100	13.90	.37
137	13.44	.348	.41	.19	.37	.65	11	.01	6.0	150	13.33	.35
189	.26	.359	.57	.19	.37	.65	8	.02	5.6	200	.22	.36
284	12.92	.298	.53	.18	.36	.69	12	.00	5.8	300	12.83	.28
380	.22	.176	.41	.16	.36	.82	11	.01	8.8	400	.00	.13
476	10.82	34.934	4.86	.10	.36	1.06	15	.02	12.7	500	10.49	34.88
572	9.45	.732	.85	.06	.35	1.29	16	.01	18.9	600	9.14	.69
669	8.51	.609	5.01	.06	.35	.45	16	.01	20.4	700	8.33	.60
765	7.85	.582	4.45	.01	.35	.77	22	<.01	23.5	800	7.53	.56
957	6.22	.478	.32	7.97	.35	.90	36	.03	28.8	1000	5.91	.50
1148	4.92	.470	.09	.94	.38	2.20	53	.02	32.1	1200	4.65	.48
1295	.14	.505	3.86	.88	.40	.38	70	.00	34.0	1500	3.41	.56
1587	3.13	.583	.61	.93	.42	.51	92	.00	36.2	2000	2.46	.66
2072	2.39	.671	.84	.89	.43	.42	99	.00	35.2	2500	2.07	.72
2557	.00	.727	4.11	.97	.45	.23	102	.00	32.3	3000	1.69	.73
3041	1.67	.735	.32	.96	.46	.16	106	.02	33.2	3500	1.30	.72
3524	.28	.724	.57	.91	.43	.21	113	.01	32.7	4000	1.14	.72
4005	.14	.718	.47	.95	.47	.20	121	.00	34.4			
4482	.10	.716	.57	.95	.47	.17	118	.00	34.4			

STD data at stations between 30°N and 20°N along 170°W

	Station 2		Station 3		Station 4		Station 5		Station 6		Station 7	
Latitude	29°55.7'N		28°58.8'N		28°01.2'N		26°59.0'N		26°00.1'N		25°00.4'N	
Longitude	170°02.0'W		170°05.9'W		170°00.8'W		169°58.6'W		170°05.3'W		170°01.9'W	
Depth (m)	T (°C)	S (‰)	T (°C)	S (‰)	T (°C)	S (‰)	T (°C)	S (‰)	T (°C)	S (‰)	T (°C)	S (‰)
0	21.37	34.96	22.15	35.10	23.42	35.14	23.55	35.13	24.92	35.01	24.75	35.03
10	.35	.94	.15	.10	.42	.14	.55	.13	.92	.01	.75	.03
20	.33	.94	.15	.10	.32	.14	.55	.13	.92	.01	.75	.05
30	.32	.94	.15	.10	.15	.15	.55	.13	.92	.01	.66	.07
50	.32	.94	.15	.10	.13	.16	.55	.13	.88	35.05	.50	.07
75	18.45	.70	19.75	34.69	20.14	.15	20.85	35.10	22.90	.15	22.25	.14
100	15.53	.65	17.75	.87	19.50	.12	19.25	.05	20.00	.09	20.85	.13
125	.12	.63	16.77	.77	18.70	.09	18.63	.03	18.19	34.98	19.45	.06
150	14.83	.60	15.48	.67	17.90	34.95	17.79	34.95	17.58	34.88	18.25	34.97
200	13.96	.53	14.62	.56	16.45	.78	15.94	.72	15.75	.70	16.65	.75
250	13.00	.46	13.45	.43	15.05	.59	14.78	.58	14.82	.60	14.80	.54
300	12.20	.36	12.38	.36	13.70	.43	13.56	.45	13.57	.47	13.25	.40
350	11.00	.26	11.26	.26	12.41	.33	12.15	.28	11.67	.30	11.30	.26
400	10.05	.18	10.26	.18	11.10	.23	10.89	.21	10.67	.22	9.70	.15
450	9.15	.10	9.07	.09	9.96	.13	9.75	.84	9.42	.12	8.95	.11
500	7.75	.03	7.93	.03	8.40	.05	8.58	.06	8.42	.07	7.95	.05
550	6.57	.00	6.85	33.98	7.00	.01	7.39	.02	7.04	.04	6.68	.03
600	5.88	.00	5.66	.98	6.31	.01	6.43	33.99	6.19	.09	5.97	.03
650	5.08	.03	5.04	34.00	5.70	.03	5.59	34.02	5.53	.11	5.45	.07
700	4.61	.07	4.62	.05	5.32	.05	4.93	.07	5.46	.15	5.17	.17
750	4.28	.13	4.31	.09	4.85	.13	4.90	.11	4.81	.22	4.89	.21
800	4.05	.18	4.12	.14	4.45	.18	4.32	.17	4.67	.26	4.55	.28
850	3.80	.24	3.92	.21	4.10	.25	4.06	.25	4.45	.30	4.33	.31
900	3.67	.29	3.83	.29	3.90	.29	3.88	.29	4.17	.35	4.02	.37
950	3.51	.34	3.73	.33	3.76	.34	3.70	.34	3.93	.39	3.83	.39
1000	3.42	.38	3.56	.36	3.62	.38	3.60	.38	3.81	.41	3.70	.41
1050	3.31	.41	3.45	.39	3.51	.40	3.44	.42	3.72	.43	3.48	.43
1100	3.23	.44	3.32	.43	3.37	.43	3.31	.44	3.54	.46	3.35	.47
1150	3.13	.46	3.22	.45	3.25	.45	3.19	.46	3.37	.48	3.17	.49
1200	3.03	.49	3.10	.47	3.15	.47	3.07	.48	3.21	.50	3.08	.50

Station 8		Station 9		Station 10		Station 11		Station 12	
24°00.4'N 169°58.8'W		22°59.8'N 170°00.4'W		21°58.8'N 170°02.4'W		21°00.0'N 170°00.8'W		19°59.5'N 170°02.5'W	
T (°C)	S (%)	T (°C)	S (%)	T (°C)	S (%)	T (°C)	S (%)	T (°C)	S (%)
25.43	34.92	25.94	34.91	26.43	34.55	27.10	34.57	27.29	34.57
.43	.92	.93	.90	.44	.85	.10	.57	27.24	.57
.41	.92	.87	.89	.44	.85	.10	.57	.22	.75
.39	.92	.87	.89	.44	.85	.00	.57	.19	.77
.35	.94	.85	.90	.45	.85	25.06	.81	26.53	.80
23.00	35.08	23.35	35.10	23.35	35.05	23.35	35.04	24.19	35.03
21.66	.17	22.00	.12	21.55	.15	22.37	.08	22.44	.07
20.00	.10	20.45	.11	20.15	.13	21.83	.09	20.69	.03
18.96	34.97	19.40	.07	19.95	.07	21.30	.11	18.84	.01
16.90	.81	17.90	34.71	17.75	34.95	18.87	.01	14.79	34.51
14.10	.48	15.20	.61	15.95	.71	16.36	34.71	12.19	.29
12.10	.31	13.65	.43	13.45	.45	12.88	.31	10.35	.18
10.60	.18	11.75	.22	10.80	.21	10.55	.16	9.34	.13
9.30	.13	9.95	.14	9.55	.14	8.90	.10	8.22	.11
8.35	.10	8.70	.10	8.25	.10	8.13	.09	6.99	.12
7.38	.05	7.62	.08	7.05	.09	9.37	.10	6.33	.20
6.40	.08	6.60	.08	6.10	.10	6.58	.12	5.80	.26
5.75	.15	5.78	.11	5.63	.15	5.96	.16	5.47	.31
5.25	.19	5.36	.18	5.20	.23	5.55	.21	5.32	.34
4.95	.22	5.04	.22	4.89	.30	5.13	.27	5.14	.39
4.75	.28	4.74	.29	4.58	.32	4.94	.34	4.92	.43
4.44	.35	4.63	.32	4.34	.39	4.82	.39	4.66	.47
4.23	.38	4.33	.36	4.23	.42	4.62	.43	4.52	.48
4.10	.41	4.22	.40	4.09	.44	4.34	.47	4.34	.49
3.97	.44	4.00	.43	3.95	.47	4.15	.48	4.18	.51
3.75	.45	3.85	.46	3.75	.49	4.05	.49	4.02	.52
3.55	.47	3.70	.48	3.62	.51	3.85	.50	3.85	.53
3.43	.49	3.57	.49	3.47	.52	3.63	.52	3.70	.53
3.30	.50	3.41	.51	3.36	.53	3.47	.53	3.60	.54
3.20	.52	3.26	.53	3.25	.54	3.32	.54	3.52	.55

Hydrographic data at stations between 2°N and 3°S along 170°W

KH-68-4 CROM #A		Latitude 01°58.5'N Longitude 170°01.5'W	December 4, 1968 1350-1510				
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved (ml/l)	O ₂	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)
0	28.33	35.067	4.61	8.17	2.37	0.37	
30	.12	.055	.68	.18	.37	.39	
80	27.66	.153	.36	.14	.37	.40	
100	.42	.211	.28	.14	.38	.64	
119	.08	.189	.13	.13	.37	.63	
146	24.11	.023	3.50	.01	.37	.79	
176	18.05	34.803	2.99	.02	.36	1.14	
202	13.19	.674	.73	7.94	.35	1.42	
244	11.27	.756	.57	.88	.36	1.82	
396	9.65	.712	1.42	.75	.36	2.03	
594 (600)	7.29 (7.28)	.580	1.72	.74	.37	.71	

() value taken with reversing thermometers attached to the sampler

KH-68-4 CROM #B		Latitude 01°29.8'N Longitude 170°00.6'W	December 4, 1968 1800-1915				
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved (ml/l)	O ₂	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)
0	29.09	35.055	4.64	8.19	2.32	0.39	
30	28.19	.047	.66	.23	.37	.44	
69	27.73	.151	.42	.22	.38	.52	
91	.46	.186	.24	.20	.38	.62	
130	26.45	.119	3.88	.18	.37	.70	
152	23.21	34.984	.31	.15	.36	.84	
183	17.48	.913	.16	.12	.36	1.03	
209	12.78	.710	2.89	.04	.37	.45	
256	11.36	.795	.65	7.98	.37	.73	
434	9.66	.701	1.61	.84	.36	2.31	
602 (603)	6.97 (6.98)	.581	.60	.78	.38	.85	

() value taken with reversing thermometers attached to the sampler

KH-68-4		Latitude 00°59.6'N		December 4, 1968		
CROM #C		Longitude 170°04.6'W		2205-2330		
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)
0	28.58	35.075	4.63	8.21	2.37	0.35
30	.16	.051	.69	.22	.37	.35
76	27.63	.117	.41	.22	.37	.42
114	.31	.209	.21	.21	.38	.61
141	26.42	.174	3.91	.18	.38	.67
152	.08	.028	.60	.18	.36	.74
183	19.07	.150	.22	.15	.38	1.00
206	15.49	34.939	.21	.13	.38	.06
244	12.33	.886	2.91	.05	.38	.63
366	10.73	.780	1.68	7.89	.37	2.14
633 (635)	6.77 (6.76)	.582	.56	.80	.38	.65

() value taken with reversing thermometers attached to the sampler

KH-68-4		Latitude 00°31.3'N		December 5, 1968		
CROM #D		Longitude 170°07.7'W		0207-0337		
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)
0	28.26	35.115	4.58	8.20	2.37	0.31
19	.01	.105	.64	.19	.38	.47
49	27.58	.155	.48	.18	.38	.37
110	26.70	.096	.07	.14	.38	.63
122	.38	.141	3.71	.13	.37	.61
141	25.33	.104	.35	.12	.36	.76
172	18.63	.043	.19	.10	.33	.98
232	14.09	34.849	.10	.04	.36	1.37
343	10.44	.783	1.76	7.86	.35	2.05
392	.25	.762	.40	.83	.36	.32
606 (605)	6.92 (6.93)	.588	.51	.77	.37	.73

() value taken with reversing thermometers attached to the sampler

KH-68-4		Latitude	00°02.3'N	December 5, 1968		
CROM #E		Longitude	170°10.2'W	0619-0735		
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)
0	28.03	35.268	4.49	8.15	2.38	0.54
30	27.84	.242	.48	.16	.38	.51
72	.53	.258	.36	.15	.38	.56
109	.53	.412	.11	.14	.39	.66
126	26.71	.281	3.74	.12	.43	.57
137	.44	.410	.55	.11	.38	.79
160	25.21	.567	.33	.10	.40	.91
190	18.88	.209	.16	.08	.38	1.02
236	14.07	34.978	.16	.04	.38	.26
377	10.41	.787	1.73	7.85	.37	2.16
602	6.71	35.220	3.10	-	-	-

KH-68-4		Latitude	00°26.4'S	December 5, 1968		
CROM #F		Longitude	170°01.7'W	1730-1910		
Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)
0	28.31	35.308	4.51	8.25	2.37	0.57
30	27.88	.288	.51	.25	.28	.56
84	.62	.385	.16	.23	.38	.68
114	.30	.425	.13	.21	.39	.70
153	25.90	.730	3.60	.20	.41	.75
172	20.61	.140	.15	.18	.37	.95
187	.07	.419	.97	.16	.34	.75
218	15.92	.097	.28	.13	.37	1.16
237	13.91	34.979	.22	.10	.37	.20
336	10.81	.790	1.86	7.94	.36	2.11
594	6.67	.570	.63	.82	.38	2.85
(624)	(6.57)					

() value taken with reversing thermometers attached to the sampler

KH-68-4 Latitude 01°01.1'S December 5, 1968
 CROM #G Longitude 170°01.0'W 2150-2330

Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)
0	28.20	35.321	4.55	8.19	2.38	0.56
30	.01	.306	.61	.19	.39	.49
69	27.90	.345	.47	.19	.39	.62
107	.73	.491	.24	.17	.40	.69
113	.51	.458	.19	.17	.39	.50
156	22.94	.741	3.15	.13	.41	.98
191	17.35	.335	.22	.11	.38	.99
213	15.08	.189	.21	.07	.37	1.23
274	11.62	34.861	2.64	7.97	.36	.90
339	10.62	.778	1.72	.86	.36	2.26
606 (612)	6.56 (6.51)	.576	.61	.77	.37	.96

KH-68-4 Latitude 01°30.2'S December 6, 1968
 CROM #H Longitude 170°02.8'W 0203-0320

Depth (m)	Water Temp. (°C)	Salinity (‰)	Dissolved O ₂ (ml/l)	pH	Alkalinity (meq/l)	PO ₄ -P (µgat/l)
0	28.09	35.299	4.52	8.18	2.39	0.36
30	.08	.279	.60	.19	.39	.56
96	27.77	.331	.48	.17	.39	.56
126	.22	.454	.11	.15	.39	.72
168	24.59	.885	3.51	.14	.42	.83
187	18.57	.576	2.87	.08	.41	1.25
255	11.98	.396	.89	.11	.41	.34
328	10.58	34.774	1.74	7.85	.37	2.24
412	9.51	.708	.26	.78	.39	.53
468	8.99	.677	.14	.73	.37	.67
602	7.07	.590	.42	.73	.37	.95

() 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)
KH-68-4 Latitude 02°01.9'S December 6,1968 CROM #I Longitude 170°01.5'W 0603-0715						
0	28.19	35.304	4.61	8.16	2.38	0.53
23	.19	.285	.63	.17	.38	.51
72	.05	.254	.63	.17	.38	.62
96	27.80	.321	.45	.16	.38	.66
126	.27	.395	.23	.14	.39	.74
168	22.37	.907	3.40	.13	.42	.88
187	17.67	.426	2.70	.04	.39	1.45
206	15.01	.177	2.53	7.99	.28	.47
336	10.23	34.755	1.75	.85	.37	2.34
404	9.71	.725	1.66	.75	.37	.44
598 (601)	6.79 (6.79)	.573	2.15	.81	.38	.81

() 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)
KH-68-4 Latitude 02°30.2'S December 6,1968 CROM #J Longitude 170°00.7'W 1300-1422						
0	28.47	35.325	4.62	8.17	2.36	0.54
28	.31	.314	.66	.18	.38	.59
65	.01	.331	.61	.17	.38	.72
107	27.72	.431	.36	.15	.40	.56
122	26.91	.429	.19	.14	.39	.59
156	34.54	.986	3.54	.14	.43	.85
206	16.06	.278	2.53	.01	.39	1.37
229	12.91	.015	.59	7.98	.37	.53
274	10.54	34.783	.28	.90	.36	2.13
499	8.65	.669	1.58	.79	.36	.56
602 (605)	7.17 (7.15)	.589	2.02	.81	.37	.71

() 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)
KH-68-4 Latitude 03°00.7'S December 6,1968						
CROM #X Longitude 170°00.2'W 1700-1815						
0	28.67	35.358	4.63	8.16	2.39	0.47
27	.48	.342	.67	.18	.38	.46
80	.01	.479	.51	.17	.39	.60
114	27.32	.585	.22	.16	.40	.64
126	26.74	.586	.10	.14	.40	.79
164	23.48	.981	3.56	.10	.43	.81
198	13.01	.277	2.48	.02	.38	1.43
255	11.39	34.871	.09	7.95	.37	.77
282	10.30	.768	.88	.84	.36	2.10
366	9.65	.718	1.70	.80	.33	.22
602 (604)	7.28 (7.28)	.598	.76	.77	.37	.71

() value taken with reversing thermometers attached to the sampler