

CH₄ concentrations in the Ross Sea during the 36th CHINARE

Station	Sample Identifier	Year (UTC)	Month (UTC)	Latitude (Decimal Degrees North)	Longitude (Decimal Degrees East)	Sample depth (metres)	Bottom Depth (metres)	Water Temperature, <i>in situ</i> (°C)	Salinity	CH ₄ (nmol/L)
R1	R01-1-1	2020	1	-75.0	164.0	6	533	0.1	34.46	3.2
R1	R01-1-2	2020	1	-75.0	164.0	25	533	-1.8	34.69	2.7
R1	R01-1-3	2020	1	-75.0	164.0	50	533	-1.9	34.71	2.8
R1	R01-1-4	2020	1	-75.0	164.0	75	533	-1.9	34.72	4.0
R1	R01-1-5	2020	1	-75.0	164.0	101	533	-1.9	34.73	3.6
R1	R01-1-6	2020	1	-75.0	164.0	148	533	-1.9	34.74	3.3
R1	R01-1-7	2020	1	-75.0	164.0	196	533	-2.0	34.74	3.1
R1	R01-1-8	2020	1	-75.0	164.0	294	533	-2.0	34.76	2.9
R1	R01-1-9	2020	1	-75.0	164.0	511	533	-1.9	34.78	3.1
R2	R01-2-1	2020	1	-75.0	165.0	5	880	0.2	34.17	3.4
R2	R01-2-2	2020	1	-75.0	165.0	26	880	-1.2	34.39	5.2
R2	R01-2-3	2020	1	-75.0	165.0	51	880	-1.8	34.69	3.0
R2	R01-2-4	2020	1	-75.0	165.0	77	880	-1.9	34.72	3.6
R2	R01-2-5	2020	1	-75.0	165.0	100	880	-1.9	34.74	3.4
R2	R01-2-6	2020	1	-75.0	165.0	150	880	-1.9	34.75	3.1
R2	R01-2-7	2020	1	-75.0	165.0	199	880	-1.9	34.76	3.3
R2	R01-2-8	2020	1	-75.0	165.0	300	880	-1.9	34.77	2.6
R2	R01-2-9	2020	1	-75.0	165.0	502	880	-1.9	34.82	3.3
R2	R01-2-10	2020	1	-75.0	165.0	870	880	-1.9	34.84	2.8
R3	R01-3-1	2020	1	-75.0	166.0	5	1022	0.2	34.32	3.5
R3	R01-3-2	2020	1	-75.0	166.0	25	1022	-0.6	34.49	4.2
R3	R01-3-3	2020	1	-75.0	166.0	51	1022	-1.8	34.71	3.8
R3	R01-3-4	2020	1	-75.0	166.0	73	1022	-1.8	34.72	3.9
R3	R01-3-5	2020	1	-75.0	166.0	102	1022	-1.9	34.73	4.2

R3	R01-3-6	2020	1	-75.0	166.0	150	1022	-1.9	34.73	3.5
R3	R01-3-7	2020	1	-75.0	166.0	201	1022	-2.0	34.74	4.4
R3	R01-3-8	2020	1	-75.0	166.0	303	1022	-1.9	34.77	4.0
R3	R01-3-9	2020	1	-75.0	166.0	505	1022	-1.9	34.81	4.0
R3	R01-3-10	2020	1	-75.0	166.0	1018	1022	-1.9	34.84	3.0
R4	R01-4-1	2020	1	-75.0	168.0	4	373	-0.2	33.95	3.5
R4	R01-4-2	2020	1	-75.0	168.0	24	373	-0.6	34.26	4.0
R4	R01-4-3	2020	1	-75.0	168.0	48	373	-1.5	34.40	4.1
R4	R01-4-4	2020	1	-75.0	168.0	71	373	-1.5	34.55	3.8
R4	R01-4-5	2020	1	-75.0	168.0	98	373	-1.4	34.62	3.0
R4	R01-4-6	2020	1	-75.0	168.0	148	373	-1.9	34.69	2.9
R4	R01-4-7	2020	1	-75.0	168.0	196	373	-1.9	34.72	3.7
R4	R01-4-8	2020	1	-75.0	168.0	298	373	-1.9	34.74	4.0
R4	R01-4-9	2020	1	-75.0	168.0	371	373	-1.9	34.76	1.5
R5	R01-5-1	2020	1	-75.0	170.4	4	331	1.4	34.23	2.7
R5	R01-5-2	2020	1	-75.0	170.4	27	331	-1.1	34.33	3.8
R5	R01-5-3	2020	1	-75.0	170.4	51	331	-1.9	34.68	2.4
R5	R01-5-4	2020	1	-75.0	170.4	75	331	-1.9	34.71	2.8
R5	R01-5-5	2020	1	-75.0	170.4	101	331	-1.9	34.71	2.1
R5	R01-5-6	2020	1	-75.0	170.4	150	331	-1.9	34.72	2.2
R5	R01-5-7	2020	1	-75.0	170.4	202	331	-1.9	34.73	2.8
R5	R01-5-8	2020	1	-75.0	170.4	299	331	-1.9	34.75	2.6
R5	R01-5-9	2020	1	-75.0	170.4	312	331	-1.9	34.76	2.4
R6	R01-6-1	2020	1	-75.0	172.9	2	501	1.2	34.11	3.2
R6	R01-6-2	2020	1	-75.0	172.9	24	501	-0.6	34.19	2.6
R6	R01-6-3	2020	1	-75.0	172.9	49	501	-1.1	34.29	2.9
R6	R01-6-4	2020	1	-75.0	172.9	72	501	-1.4	34.43	3.3
R6	R01-6-5	2020	1	-75.0	172.9	99	501	-1.6	34.51	2.2
R6	R01-6-6	2020	1	-75.0	172.9	148	501	-1.5	34.56	2.3

R6	R01-6-7	2020	1	-75.0	172.9	199	501	-1.7	34.60	2.2
R6	R01-6-8	2020	1	-75.0	172.9	299	501	-1.9	34.70	2.4
R6	R01-6-9	2020	1	-75.0	172.9	490	501	-1.9	34.77	2.7
R7	R01-7-1	2020	1	-75.0	175.3	4	285	0.8	34.08	3.2
R7	R01-7-2	2020	1	-75.0	175.3	23	285	-0.9	34.11	N.A
R7	R01-7-3	2020	1	-75.0	175.3	48	285	-1.5	34.21	2.5
R7	R01-7-4	2020	1	-75.0	175.3	73	285	-1.5	34.37	N.A
R7	R01-7-5	2020	1	-75.0	175.3	100	285	-1.1	34.44	N.A
R7	R01-7-6	2020	1	-75.0	175.3	148	285	-0.8	34.53	N.A
R7	R01-7-7	2020	1	-75.0	175.3	201	285	-1.0	34.57	5.5
R7	R01-7-8	2020	1	-75.0	175.3	276	285	-1.6	34.63	N.A
R8	R01-8-1	2020	1	-75.0	177.7	4	393	0.6	34.20	N.A
R8	R01-8-2	2020	1	-75.0	177.7	27	393	-0.3	34.24	N.A
R8	R01-8-3	2020	1	-75.0	177.7	50	393	-1.0	34.31	N.A
R8	R01-8-4	2020	1	-75.0	177.7	74	393	-1.4	34.41	N.A
R8	R01-8-5	2020	1	-75.0	177.7	100	393	-1.3	34.46	N.A
R8	R01-8-6	2020	1	-75.0	177.7	150	393	-1.6	34.50	N.A
R8	R01-8-7	2020	1	-75.0	177.7	200	393	-1.7	34.51	N.A
R8	R01-8-8	2020	1	-75.0	177.7	300	393	-1.7	34.56	N.A
R8	R01-8-9	2020	1	-75.0	177.7	381	393	-1.8	34.64	N.A
R9	R01-9-1	2020	1	-75.0	-179.9	5	461	-0.4	33.68	2.8
R9	R01-9-2	2020	1	-75.0	-179.9	26	461	-0.9	34.10	3.1
R9	R01-9-3	2020	1	-75.0	-179.9	51	461	-1.4	34.25	N.A
R9	R01-9-4	2020	1	-75.0	-179.9	75	461	-1.3	34.36	2.5
R9	R01-9-5	2020	1	-75.0	-179.9	100	461	-1.1	34.41	N.A
R9	R01-9-6	2020	1	-75.0	-179.9	149	461	-1.3	34.45	N.A
R9	R01-9-7	2020	1	-75.0	-179.9	200	461	-1.4	34.49	N.A
R9	R01-9-8	2020	1	-75.0	-179.9	300	461	-1.6	34.52	N.A
R9	R01-9-9	2020	1	-75.0	-179.9	452	461	-1.9	34.66	N.A

R10	R01-10-1	2020	1	-75.0	-177.8	4	470	-1.0	34.01	2.3
R10	R01-10-2	2020	1	-75.0	-177.8	25	470	-1.2	34.13	2.4
R10	R01-10-3	2020	1	-75.0	-177.8	50	470	-1.4	34.22	2.1
R10	R01-10-4	2020	1	-75.0	-177.8	76	470	-1.5	34.22	2.4
R10	R01-10-5	2020	1	-75.0	-177.8	100	470	-1.4	34.28	2.1
R10	R01-10-6	2020	1	-75.0	-177.8	150	470	-1.3	34.33	2.5
R10	R01-10-7	2020	1	-75.0	-177.8	201	470	-1.2	34.40	2.0
R10	R01-10-8	2020	1	-75.0	-177.8	303	470	-1.2	34.48	2.7
R10	R01-10-9	2020	1	-75.0	-177.8	464	470	-1.7	34.61	2.9

N.A.: Not available