Table 1: Record of measurements during the Atlantic Meridional Transect (AMT-7).

Parameter	Instrument	Height/ Depth (m)	Sampling Interval	Other Information
Temperature profile		N/A	$\Delta t \approx 1$ day	CTD
Salinity profile		”	”	”
Fluorescence profile		”	”	”
Beam attenuation profile (660 nm)		”	”	”
PAR irradiance profile		”	”	”
Temperature profiles	Sippecan T7 XBT	N/A	$\Delta t \approx 1$ day	
Air temperature	Vector Instruments T351PX	15.5	Δt=1 min.	Underway data
Sea surface temperature	Seabird thermosalinograph	-7	”	”
Sea surface conductivity	”	-7	”	”
Wind speed	unknown	19.3	”	”
Wind direction	unknown	19.3	”	”
Barometric pressure	Vaisala PA11	19.3	”	”
Insolation	Kipp and Zonen CM5	15.5	”	”
Sea surface temperature	hull sensor	-4	$\Delta t \approx 6$ hour	WMO report
Air temperature	instruments from UKMO	18.9	”	”
Dew point temperature	”	”	”	”
Barometric pressure	”	”	”	”
Cloud cover	estimated	”	”	”
Wind speed	estimated from sea state	”	”	”
Wind direction	”	”	”	”
Upper air temperature	radiosonde	up to 100 mb	$\Delta t \approx$1-2 days	”
Upper air dew point temperature	”	”	”	”
Sea surface [COS]	*Ulshöfer* [1995]	-7	$\Delta t \approx 30$ minutes	MPI
Sea surface [CH_3SH]	”	”	”	”
Sea surface [CS_2]	”	”	”	”
Atmospheric [COS]	”	18	$\Delta t \approx 90$ minutes	”
Equilibrator temperature	thermocouple; PMC corporation	-7	$\Delta t = 1$ min.	note 1
Ultraviolet absorbance	Shimadzu 1800UV	-7	$\Delta t \approx 12$ hours	”
Gelbstoff fluorescence	Shimadzu 1500	-7	$\Delta t \approx 12$ hours	”
Sea surface chlorophyll *a* concentration	Turner fluorometer	-7	$\Delta t \approx 2$ hours	note 2
Sea surface chlorophyll *a* concentration	SEAWIFS satellite		$\Delta t \approx 7$ days	note 3
Total column ozone	TOMS satellite		$\Delta t \approx 1$ day	note 4

1. Data collected by T. S. Rhee, Max Planck Institute for Chemistry
2. Data collected by A. Poulton, Southampton Oceanography Centre
3. Data from http : //daac.gsfc.nasa.gov
4. Data from http : //toms.gsfc.nasa.gov

CTD: conductivity, temperature, depth
MPI: Max Planck Institute for Chemistry
PAR: photosynthetic available radiation
SeaWiFS: Sea-viewing Wide Fieldof View Sensor
TOMS: Total Ozone Mapping Spectrometer
UKMO: United Kingdom Meteorological Office
WMO: World Meteorological Organization
XBT: expendable bathythermograph

Table 2: Henry's law constants for the reduced sulfur gases of this investigation from *Sander* [1996].[The The parameterizations for COS, CH_3SH, and CS_2 originate from *De Bruyn et al.* [1995], and the parameterization for DMS originates from *Dacey et al.* [1994].

Species	Henry's Law Parameterization	Reference
COS	$H = c_1 \exp(c_2(\frac{1}{T} - \frac{1}{T^\ominus}))$	$c_1 = 2.2 \times 10^{-2}$ M atm^{-1}, $c_2 = 2100$ K
CH_3SH	$H = c_1 \exp(c_2(\frac{1}{T} - \frac{1}{T^\ominus}))$	$c_1 = 2.0 \times 10^{-1}$ M atm^{-1}, $c_2 = 2800$ K
DMS	$H = c_1 \exp(c_2(\frac{1}{T} - \frac{1}{T^\ominus}))$	$c_1 = 4.8 \times 10^{-1}$ M atm^{-1}, $c_2 = 3500$ K
CS_2	$H = c_1 \exp(c_2(\frac{1}{T} - \frac{1}{T^\ominus}))$	$c_1 = 5.5 \times 10^{-2}$ M atm^{-1}, $c_2 = 2800$ K

Table 3: Comparison of equilibration times and hydroxyl radical oxidation lifetimes for chemical species measured with a n equilibrator. The reaction rate constant for OH radical is from *Atkinson et al.* [1997]. The Ostwald solubility coefficient was calculated at 20°C from the information in Table 2.

Compound	Source for equilibrator Measurement	L	Equil. Time (min.)	OH Rate Constant (cm^3 mol^{-1} s^{-1})	OH Lifetime (h)
$(CH_3)_2S$	*Bates et al.* [1993]	17.631	0.16	4.75e-12	1.17e+01—5.85e+01
CH_3SH	none	5.6464	0.51	3.33e-11	1.67e+00—8.33e+00
CS_2	none	1.5527	1.87	8.00e-12	6.94e+00—3.47e+01
COS	*von Hobe et al.* [1999]	0.5967	4.88	1.83e-15	3.03e+04—1.51e+05

Table 4: Molar volumes at normal boiling point for the gases used in this investigation.

Species	Molar volume cm^3 mol^{-1}	Reference
COS	50.73	*Zandler et al.* [1968]
CH_3SH	52.0	*Jackowski* [1980]
CS_2	62.26	*Zandler et al.* [1968]

Table 5: Statistics of atmospheric and upper ocean concentrations

Parameter	N	Minimum	Maximum	Average	Standard Deviation	Mode
aqueous [COS] (pM)	783	1.33	111.7	21.7	19.1	5.59
aqueous [CH_3SH] (nM)	739	0.019	1.74	0.420	0.354	0.157
aqueous [DMS] (nM)	739	0.227	5.85	2.02	1.03	1.58
aqueous [CS_2] (pM)	744	1.5	149.3	10.9	15.2	5.23
COS mixing ratio (ppt)	318	138	1160	540	157	476

Table 6: Statistics of calculated fluxes (all units are μmol m^{-2} day^{-1})

Species	Flux Model	N	Minimum	Maximum	Average	Standard Deviation	Mode
COS	LM86	783	-7.52e-02	3.92e-01	2.15e-02	5.57e-02	-8.61e-03
	NEL00	783	-1.06e-01	5.48e-01	3.10e-02	7.76e-02	-1.27e-02
	W92	783	-1.45e-01	7.05e-01	3.93e-02	1.01e-01	-2.48e-02
CH_3SH	LM86	739	9.71e-04	1.17e+01	1.60e+00	1.91e+00	8.91e-01
	NEL00	739	3.65e-03	1.64e+01	2.26e+00	2.64e+00	8.91e-01
	W92	739	2.09e-03	2.24e+01	2.92e+00	3.55e+00	8.91e-01
DMS	LM86	739	1.38e-02	4.71e+01	6.74e+00	6.70e+00	8.37e+00
	NEL00	739	3.57e-02	6.50e+01	9.52e+00	9.25e+00	8.37e+00
	W92	739	8.75e-03	8.82e+01	1.23e+01	1.25e+01	8.37e+00
CS_2	LM86	744	5.56e-05	7.69e-01	2.78e-02	4.45e-02	1.66e-02
	NEL00	744	1.44e-04	1.08e+00	3.98e-02	6.11e-02	1.66e-02
	W92	744	3.52e-05	1.39e+00	5.02e-02	7.82e-02	1.66e-02

Table 7: Summary of absorbance measurements collected during cruise. F/UF refers to if the sample was filtered or unfiltered before analysis.

Identi-fier	File Name	F/UF	Time/Date (GMT)	Latitude	Longitude
1	x	uf	08:40,09/16/98	46.6452	10.7399
2	0917a1	uf	11:29,09/17/98	41.7216	10.8053
2	0917a2	uf	11:29,09/17/98	41.7216	10.8053
2	0917a3	uf	11:29,09/17/98	41.7216	10.8053
2	0917a4	f	11:29,09/17/98	41.7216	10.8053
2	0917a5	f	11:29,09/17/98	41.7216	10.8053
2	0917a6	f	11:29,09/17/98	41.7216	10.8053
3	0917b1	uf	22:21,09/17/98	40.1260	10.7674
3	0917b2	uf	22:21,09/17/98	40.1260	10.7674
3	0917b3	uf	22:21,09/17/98	40.1260	10.7674
3	0917b4	f	22:21,09/17/98	40.1260	10.7674
3	0917b5	f	22:21,09/17/98	40.1260	10.7674
3	0917b6	f	22:21,09/17/98	40.1260	10.7674
4	0918a1	uf	10:46,09/18/98	38.5774	9.64848
4	0918a2	uf	10:46,09/18/98	38.5774	9.64848
4	0918a3	uf	10:46,09/18/98	38.5774	9.64848
4	0918a4	f	10:46,09/18/98	38.5774	9.64848
4	0918a5	f	10:46,09/18/98	38.5774	9.64848
4	0918a6	f	10:46,09/18/98	38.5774	9.64848
5	0921a1	uf	21:14,09/21/98	38.5577	10.5487
5	0921a2	f	21:14,09/21/98	38.5577	10.5487
6	0922b1	uf	09:30,09/22/98	38.7749	13.6048
6	0922b2	f	09:30,09/22/98	38.7749	13.6048
7	0922d1	uf	22:37,09/22/98	37.6394	15.6478
7	0922d2	f	22:37,09/22/98	37.6394	15.6478
8	0923a1	f	09:50,09/23/98	36.3076	17.4887
8	0923a2	uf	09:50,09/23/98	36.3076	17.4887
9	0923b1	uf	21:05,09/23/98	34.4358	17.4160
9	0923b2	f	21:05,09/23/98	34.4358	17.4160
10	0924a1	uf	10:40,09/24/98	32.4799	16.9452
10	0924a2	f	10:40,09/24/98	32.4799	16.9452
11	0924b1	uf	21:16,09/24/98	32.4070	17.0105
11	0924b2	f	21:16,09/24/98	32.4070	17.0105
12	0925a1	uf	10:40,09/25/98	32.5150	16.9512
12	0925a2	f	10:40,09/25/98	32.5150	16.9512
13	0926a1	uf	10:30,09/26/98	30.0642	19.9456
13	0926a2	f	10:30,09/26/98	30.0642	19.9456
14	0926b1	uf	21:31,09/26/98	28.6129	20.0012
14	0926b2	f	21:31,09/26/98	28.6129	20.0012
15	0927a1	uf	10:45,09/27/98	26.1728	19.9889
15	0927a2	f	10:45,09/27/98	26.1728	19.9889
16	0927b1	uf	01:52,09/28/98	23.6288	19.9836
16	0927b2	f	01:52,09/28/98	23.6288	19.9836
17	0928a1	uf	12:23,09/28/98	21.7762	19.9790
17	0928a2	f	12:23,09/28/98	21.7762	19.9790
18	0928b1	uf	00:13,09/29/98	19.6589	19.9974
18	0928db2	f	00:13,09/29/98	19.6589	19.9974
19	0929b1	uf	11:20,09/29/98	17.6659	19.9841
19	0929b2	f	11:20,09/29/98	17.6659	19.9841
20	0930a1	uf	10:25,09/30/98	14.5910	17.7574

Table 7 (continued)

Identi-fier	File Name	F/UF	Time/Date (GMT)	Latitude	Longitude
20	0930a2	f	10:25,09/30/98	14.5910	17.7574
21	0930b1	uf	23:21,09/30/98	14.4379	18.3969
21	0930b2	f	23:21,09/30/98	14.4379	18.3969
22	1001b1	uf	14:00,10/01/98	14.2672	17.9308
22	1001b2	f	14:00,10/01/98	14.2672	17.9308
23	1001c1	uf	00:17,10/01/98	13.3065	19.4921
23	1001c2	f	00:17,10/01/98	13.3065	19.4921
24	1002a1	uf	10:05,10/02/98	12.2161	21.2488
24	1002a1	f	10:05,10/02/98	12.2161	21.2488
25	1003a1	uf	11:08,10/03/98	8.04750	22.2128
25	1003a2	f	11:08,10/03/98	8.04750	22.2128
26	1003b1	uf	03:17,10/04/98	5.49598	23.2411
26	1003b2	f	03:17,10/04/98	5.49598	23.2411
27	1004a1	uf	13:20,10/04/98	3.89102	23.9106
27	1004a2	f	13:20,10/04/98	3.89102	23.9106
28	1004b1	uf	21:38,10/04/98	2.68375	24.4059
28	1004b2	f	21:38,10/04/98	2.68375	24.4059
29	1005a1	uf	12:55,10/05/98	0.0128167	25.4866
29	1005a2	f	12:55,10/05/98	0.0128167	25.4866
30	1005b1	uf	00:25,10/06/98	-1.99552	26.2519
30	1005b2	f	00:25,10/06/98	-1.99552	26.2519
31	1006a1	uf	12:25,10/06/98	-4.11583	27.1385
31	1006a2	f	12:25,10/06/98	-4.11583	27.1385
32	1006b1	uf	21:40,10/06/98	-5.53333	27.7168
32	1006b2	f	21:40,10/06/98	-5.53333	27.7168
32a	1007a1	uf	12:15,10/07/98	-8.04203	28.7506
32a	1007a2	f	12:15,10/07/98	-8.04203	28.7506
33	1007b1	uf	20:15,10/07/98	-9.19117	29.1982
33	1007b2	f	20:15,10/07/98	-9.19117	29.1982
34	1008a1	uf	12:56,10/08/98	-12.1415	30.4276
34	1008a2	f	12:56,10/08/98	-12.1415	30.4276
35	1008b1	uf	02:02,10/09/98	-14.2591	31.3113
35	1008b2	f	02:02,10/09/98	-14.2591	31.3113
36	1009a1	uf	12:17,10/09/98	-15.9614	32.0156
36	1009a2	f	12:17,10/09/98	-15.9614	32.0156
37	1009b1	uf	23:07,10/09/98	-17.6243	33.2017
37	1009b2	f	23:07,10/09/98	-17.6243	33.2017
38	1010a1	uf	12:35,10/10/98	-19.5977	34.9417
38	1010a2	f	12:35,10/10/98	-19.5977	34.9417
39	1010b1	uf	21:58,10/10/98	-21.0267	35.6278
39	1010b2	f	21:58,10/10/98	-21.0267	35.6278
40	1011a1	uf	16:00,10/11/98	-23.7349	37.1399
40	1011a2	f	16:00,10/11/98	-23.7349	37.1399
41	1011b1	uf	05:00,10/12/98	-25.5373	38.9669
41	1011b2	f	05:00,10/12/98	-25.5373	38.9669
42	1012a1	uf	15:05,10/12/98	-26.6908	40.1313
42	1012a1	f	15:05,10/12/98	-26.6908	40.1313
43	1012b1	uf	04:50,10/13/98	-28.6047	42.1776
43	1012b1	f	04:50,10/13/98	-28.6047	42.1776
44	1013a1	uf	13:55,10/13/98	-29.7246	43.3793

Table 7 (continued)

Identi-fier	File Name	F/UF	Time/Date (GMT)	Latitude	Longitude
44	1013a2	f	13:55,10/13/98	-29.7246	43.3793
45	1013b1	uf	01:33,10/14/98	-31.2270	45.0203
45	1013b2	f	01:33,10/14/98	-31.2270	45.0203
46	1014a1	uf	15:34,10/14/98	-32.8342	46.7847
46	1014a2	f	15:34,10/14/98	-32.8342	46.7847
47	1014b1	uf	03:30,10/15/98	-34.4067	48.2980
47	1014b2	f	03:30,10/15/98	-34.4067	48.2980
48	1015a1	uf	13:40,10/15/98	-35.5593	49.4472
48	1015a2	f	13:40,10/15/98	-35.5593	49.4472
49	1015b1	uf	04:40,10/16/98	-37.2365	51.3682
49	1015b2	f	04:40,10/16/98	-37.2365	51.3682
50	1016a1	uf	15:18,10/16/98	-37.7681	52.1578
50	1016a1	f	15:18,10/16/98	-37.7681	52.1578
51	1016b1	uf	23:40,10/16/98	-36.3493	54.0043
51	1016b1	f	23:40,10/16/98	-36.3493	54.0043
52	1021a1	uf	16:10,10/21/98	-38.1135	52.3037
52	1021a2	f	16:10,10/21/98	-38.1135	52.3037
53	1021b1	uf	07:29,10/22/98	-39.7290	50.4960
53	1021b2	f	07:29,10/22/98	-39.7290	50.4960
54	1022a1	uf	16:35,10/22/98	-40.0135	50.0927
54	1022a2	f	16:35,10/22/98	-40.0135	50.0927
55	1022b1	uf	00:18,10/23/98	-40.9680	50.6613
55	1022b2	f	00:18,10/23/98	-40.9680	50.6613
56	1023a1	uf	13:41,10/23/98	-43.0831	51.9379
56	1023a2	f	13:41,10/23/98	-43.0831	51.9379
57	1023b1	uf	02:00,10/24/98	-44.5865	52.5420
57	1023b2	f	02:00,10/24/98	-44.5865	52.5420
58	1024a1	uf	14:43,10/24/98	-46.3237	53.6926
58	1024a2	f	14:43,10/24/98	-46.3237	53.6926
59	1024b1	uf	01:43,10/25/98	-48.0391	55.0977
59	1024b2	f	01:43,10/25/98	-48.0391	55.0977
60	1025a1	uf	14:28,10/25/98	-50.6607	56.9607
60	1025a2	f	14:28,10/25/98	-50.6607	56.9607

Table 8: List of fluorescence files collected during AMT7 transect.

N	Excitation Wavelength (nm)								
	254	270	290	300	310	320	330	345	360	370
1	0916a1	0916a2	0916a3	0916a4	0916a5	0916a6	0916a7	0916a8	0916a9	0916a10
2	0917a1	0917a2	0917a3	0917a4	0917a5	0917a6	0917a7	0917a8	0917a9	0917a10
3	0917b1	0917b2	0917b3	0917b4	0917b5	0917b6	0917b7	0917b8	0917b9	0917b10
4	0918a1	0918a2	0918a3	0918a4	0918a5	0918a6	0918a7	0918a8	0918a9	0918a10
5	0921a1	0921a2	0921a3	0921a4	0921a5	0921a6	0921a7	0921a8	0921a9	0921a10
6	0922a1	0922a2	0922a3	0922a4	0922a5	0922a6	0922a7	0922a8	0922a9	0922a10
7	0922j1	0922j2	0922j3	0922j4	0922j5	0922j6	0922j7	0922j8	0922j9	0922j10
8	0923a1	0923a2	0923a3	0923a4	0923a5	0923a6	0923a7	0923a8	0923a9	0923a10
9	0923b1	0923b2	0923b3	0923b4	0923b5	0923b6	0923b7	0923b8	0923b9	0923b10
10	0924a1	0924a2	0924a3	0924a4	0924a5	0924a6	0924a7	0924a8	0924a9	0924a10
11	0924b1	0924b2	0924b3	0924b4	0924b5	0924b6	0924b7	0924b8	0924b9	0924b10
12	0925a1	0925a2	0925a3	0925a4	0925a5	0925a6	0925a7	0925a8	0925a9	0925a10
13	0926a1	0926a2	0926a3	0926a4	0926a5	0926a6	0926a7	0926a8	0926a9	0926a10
14	0926b1	0926b2	0926b3	0926b4	0926b5	0926b6	0926b7	0926b8	0926b9	0926b10
15	0927a1	0927a2	0927a3	0927a4	0927a5	0927a6	0927a7	0927a8	0927a9	0927a10
16	0927b1	0927b2	0927b3	0927b4	0927b5	0927b6	0927b7	0927b8	0927b9	0927b10
17	0928a1	0928a2	0928a3	0928a4	0928a5	0928a6	0928a7	0928a8	0928a9	0928a10
18	0928b1	0928b2	0928b3	0928b4	0928b5	0928b6	0928b7	0928b8	0928b9	0928b10
19	0929a1	0929a2	0929a3	0929a4	0929a5	0929a6	0929a7	0929a8	0929a9	0929a10
20	0930a1	0930a2	0930a3	0930a4	0930a5	0930a6	0930a7	0930a8	0930a9	0930a10
21	0930b1	0930b2	0930b3	0930b4	0930b5	0930b6	0930b7	0930b8	0930b9	0930b10
22	1001a1	1001a2	1001a3	1001a4	1001a5	1001a6	1001a7	1001a8	1001a9	1001a10
23	1001b1	1001b2	1001b3	1001b4	1001b5	1001b6	1001b7	1001b8	1001b9	1001b10
24	1002a1	1002a2	1002a3	1002a4	1002a5	1002a6	1002a7	1002a8	1002a9	1002a10
25	1003a1	1003a2	1003a3	1003a4	1003a5	1003a6	1003a7	1003a8	1003a9	1003a10
26	1003b1	1003b2	1003b3	1003b4	1003b5	1003b6	1003b7	1003b8	1003b9	1003b10
27	1004a1	1004a2	1004a3	1004a4	1004a5	1004a6	1004a7	1004a8	1004a9	1004a10
28	1004b1	1004b2	1004b3	1004b4	1004b5	1004b6	1004b7	1004b8	1004b9	1004b10
29	1005a1	1005a2	1005a3	1005a4	1005a5	1005a6	1005a7	1005a8	1005a9	1005a10
30	1005b1	1005b2	1005b3	1005b4	1005b5	1005b6	1005b7	1005b8	1005b9	1005b10
31	1006a1	1006a2	1006a3	1006a4	1006a5	1006a6	1006a7	1006a8	1006a9	1006a10
32	1006b1	1006b2	1006b3	1006b4	1006b5	1006b6	1006b7	1006b8	1006b9	1006b10
32a	1007a1	1007a2	1007a3	1007a4	1007a5	1007a6	1007a7	1007a8	1007a9	1007a10
33	1007b1	1007b2	1007b3	1007b4	1007b5	1007b6	1007b7	1007b8	1007b9	1007b10
34	1008a1	1008a2	1008a3	1008a4	1008a5	1008a6	1008a7	1008a8	1008a9	1008a10
35	1008b1	1008b2	1008b3	1008b4	1008b5	1008b6	1008b7	1008b8	1008b9	1008b10
36	1009a1	1009a2	1009a3	1009a4	1009a5	1009a6	1009a7	1009a8	1009a9	1009a10
37	1009b1	1009b2	1009b3	1009b4	1009b5	1009b6	1009b7	1009b8	1009b9	1009b10
38	1010a1	1010a2	1010a3	1010a4	1010a5	1010a6	1010a7	1010a8	1010a9	1010a10
39	1010b1	1010b2	1010b3	1010b4	1010b5	1010b6	1010b7	1010b8	1010b9	1010b10
40	1011a1	1011a2	1011a3	1011a4	1011a5	1011a6	1011a7	1011a8	1011a9	1011a10
41	1011b1	1011b2	1011b3	1011b4	1011b5	1011b6	1011b7	1011b8	1011b9	1011b10
42	1012a1	1012a2	1012a3	1012a4	1012a5	1012a6	1012a7	1012a8	1012a9	1012a10
43	1012b1	1012b2	1012b3	1012b4	1012b5	1012b6	1012b7	1012b8	1012b9	1012b10
44	1013a1	1013a2	1013a3	1013a4	1013a5	1013a6	1013a7	1013a8	1013a9	1013a10
45	1013b1	1013b2	1013b3	1013b4	1013b5	1013b6	1013b7	1013b8	1013b9	1013b10
46	1014a1	1014a2	1014a3	1014a4	1014a5	1014a6	1014a7	1014a8	1014a9	1014a10
47	1014b1	1014b2	1014b3	1014b4	1014b5	1014b6	1014b7	1014b8	1014b9	1014b10
48	1015a1	1015a2	1015a3	1015a4	1015a5	1015a6	1015a7	1015a8	1015a9	1015a10
49	1015b1	1015b2	1015b3	1015b4	1015b5	1015b6	1015b7	1015b8	1015b9	1015b10
50	1016a1	1016a2	1016a3	1016a4	1016a5	1016a6	1016a7	1016a8	1016a9	1016a10

Table 8 (continued)

N	Excitation Wavelength (nm)									
	254	270	290	300	310	320	330	345	360	370
51	1016b1	1016b2	1016b3	1016b4	1016b5	1016b6	1016b7	1016b8	1016b9	1016b10
52	1021a1	1021a2	1021a3	1021a4	1021a5	1021a6	1021a7	1021a8	1021a9	1021a10
53	1021b1	1021b2	1021b3	1021b4	1021b5	1021b6	1021b7	1021b8	1021b9	1021b10
54	1022a1	1022a2	1022a3	1022a4	1022a5	1022a6	1022a7	1022a8	1022a9	1022a10
55	1022b1	1022b2	1022b3	1022b4	1022b5	1022b6	1022b7	1022b8	1022b9	1022b10
56	1023a1	1023a2	1023a3	1023a4	1023a5	1023a6	1023a7	1023a8	1023a9	1023a10
57	1023b1	1023b2	1023b3	1023b4	1023b5	1023b6	1023b7	1023b8	1023b9	1023b10
58	1024a1	1024a2	1024a3	1024a4	1024a5	1024a6	1024a7	1024a8	1024a9	1024a10
59	1024b1	1024b2	1024b3	1024b4	1024b5	1024b6	1024b7	1024b8	1024b9	1024b10

Table 9: Record of absorbance and fluorescence measurements collected from CTD bottles during AMT-7 cruise.

CTD Information	Depth (m)	Absorb	Fluorescence			
			Ex $\lambda =$ 254 nm	Ex $\lambda =$ 270 nm	Ex $\lambda =$ 300 nm	Ex $\lambda =$ 360 nm
CTD: A704	7	0922a8	0922i1	N/A	0922i2	0922i3
Time: 0930-1100	20	0922a7	0922b1	N/A	0922b2	0922b3
Date: 09/22/98	30	0922a5	0922c1	N/A	0922c2	0922c3
Lat.: 38° 46.6' N	40	0922a6	0922e1	N/A	0922e2	0922e3
Long.: 13° 36.1' W	75	0922a3	0922f1	N/A	0922f2	0922f3
	100	0922a2	0922d1	N/A	0922d2	0922d3
	150	0922a4	0922g1	N/A	0922g2	0922g3
	200	0922a1	0922h1	N/A	0922h2	0922h3
CTD: A706	2	0926d10	0926m1	N/A	0926m2	0926m3
Time: 1540-1630	7	0926d1	0926d1	N/A	0926d2	0926d3
Date: 09/25/98	20	0926d9	0926l1	N/A	0926l2	0926l3
Lat.: 32° 32.7' N	40	0926d3	0926f1	N/A	0926f2	0926f3
Long.: 16° 56.8' W	60	0926d5	0926h1	N/A	0926h2	0926h3
	80	0926d2	0926e1	N/A	0926e2	0926e3
	100	0926d6	0926i1	N/A	0926i2	0926i3
	115	0926d7	0926j1	N/A	0926j2	0926j3
	150	0926d8	0926k1	N/A	0926k2	0926k3
	200	0926d4	N/A	N/A	0926g2	0926g3
CTD: A708	7	0928d4	0928g1	N/A	0928g2	0928g3
Time: 1233-1348	20	0928d2	0928i1	N/A	0928i2	0928i3
Date: 09/27/98	40	0928d1	0928e1	N/A	0928e2	0928e3
Lat.: 25° 49.1' N	60	0928d5	0928l1	N/A	0928l2	0928l3
Long.: 19° 58.9' W	70	0928d9	0928k1	N/A	0928k2	0928k3
	85	0928d6	0928d1	N/A	0928d2	0928d3
	90	0928d8	0928j1	N/A	0928j2	0928j3
	150	0928d7	0928f1	N/A	0928f2	0928f3
	200	0928d3	0928h1	N/A	0928h2	0928h3
CTD: A710	2	0930d11	0930n1	0930n2	0930n3	N/A
Time: 1000-1145	7	0930d8	0930k1	0930k2	0930k3	N/A
Date: 09/29/98 20	0930d4	0930g1	0930g2	0930g3	N/A	
Lat.: 17° 41.4' N	30	0930d10	0930m1	0930m2	0930m3	N/A
Long.: 20° 00.0' W	40	0930d1	0930d1	0930d2	0930d3	N/A
	40	0930d6	0930i1	0930i2	0930i3	N/A
	50	0930d3	0930f1	0930f2	0930f3	N/A
	60	0930d5	0930h1	0930h2	0930h3	N/A
	100	0930d7	0930j1	0930j2	0930j3	N/A
	150	0930d9	0930l1	0930l2	0930l3	N/A
	200	0930d2	0930e1	0930e2	0930e3	N/A
CTD: A713	7	1003d12	1003o1	1003o2	1003o3	N/A
Time: 1030-1120	20	1003d11	1003n1	1003n2	1003n3	N/A
Date: 10/02/98	30	1003d10	1003m1	1003m2	1003m3	N/A
Lat.: 12° 10.5' N	40	1003d9	1003l1	1003l2	1003l3	N/A
Long.: 21° 18.9' W	60	1003d8	1003k1	1003k2	1003k3	N/A
	80	1003d7	1003j1	1003j2	1003j3	N/A
	100	1003d6	1003i1	1003i2	1003i3	N/A
	150	1003d5	1003h1	1003h2	1003h3	N/A
	200	1003d4	1003g1	1003g2	1003g3	N/A
	250	1003d3	1003f1	1003f2	1003f3	N/A
	380	1003d2	1003e1	1003e2	1003e3	N/A
	500	1003d1	1003d1	1003d2	1003d3	N/A

Table 9 (continued)

CTD Information	Depth (m)	Absorb	Fluorescence Ex λ = 254 nm	Ex λ = 270 nm	Ex λ = 300 nm	Ex λ = 360 nm
CTD: A716	7	1006d5	1006j1	1006j2	1006j3	N/A
Time: 1000-1048	30	1006d6	1006k1	1006k2	1006k3	N/A
Date: 10/05/98	60	1006d7	1006l1	1006l2	1006l3	N/A
Lat.: 00° 24.8' N	75	1006d3	1006h1	1006h2	1006h3	N/A
Long.: 25° 19.1' W	80	1006d1	1006d1	1006d2	1006d3	N/A
	85	1006d2	1006e1	1006e2	1006e3	N/A
	90	1006d4	1006i1	1006i2	1006i3	N/A
	100	1006d9	1006f1	1006f2	1006f3	N/A
	140	1006d8	1006m1	1006m2	1006m3	N/A
	200	1006d10	1006g1	1006g2	1006g3	N/A
CTD: A719	7	1009d11	1009n1	1009n2	1009n3	N/A
Time: 1100-1145	20	1009d10	1009m1	1009m2	1009m3	N/A
Date: 10/08/98	40	1009d9	1009l1	1009l2	1009l3	N/A
Lat. 11° 55.2' S	80	1009d8	1009k1	1009k2	1009k3	N/A
Long. 30° 19.5' W	100	1009d7	1009j1	1009j2	1009j3	N/A
	110	1009d6	1009i1	1009i2	1009i3	N/A
	120	1009d5	1009h1	1009h2	1009h3	N/A
	130	1009d4	1009g1	1009g2	1009g3	N/A
	140	1009d3	1009f1	1009f2	1009f3	N/A
	150	1009d2	1009e1	1009e2	1009e3	N/A
	200	1009d1	1009d1	1009d2	1009e3	N/A
CTD: A722	7	1012d9	1012l1	1012l2	1012l3	N/A
Time: 1230-1345	20	1012d7	1012j1	1012j2	1012j3	N/A
Date: 10/11/98	40	1012d6	1012i1	1012i2	1012i3	N/A
Lat.: 23° 29.5' S	60	1012d4	1012g1	1012g2	1012g3	N/A
Long.: 36° 53.7' W	80	1012d3	1012f1	1012f2	1012f3	N/A
	90	1012d8	1012k1	1012k2	1012k3	N/A
	110	1012d1	1012d1	1012d2	1012d3	N/A
	120	1012d10	1012m1	1012m2	1012m3	N/A
	150	1012d2	1012e1	1012e2	1012e3	N/A
	200	1012d5	1012h1	1012h2	1012h3	N/A
CTD: A725	7	1015d12	1015o1	1015o2	1015o3	N/A
Time: 1203-1342	30	1015d11	1015n1	1015n2	1015n3	N/A
Date: 10/14/98	60	1015d10	1015m1	1015m2	1015m3	N/A
Lat.: 34° 44.6' S	80	1015d9	1015l1	1015l2	1015l3	N/A
Long.: 46° 39.6' W	80	1015d8	1015k1	1015k2	1015k3	N/A
	85	1015d7	1015j1	1015j2	1015j3	N/A
	85	1015d6	1015i1	1015i2	1015i3	N/A
	90	1015d5	1015h1	1015h2	1015h3	N/A
	100	1015d4	1015g1	1015g2	1015g3	N/A
	120	1015d3	1015f1	1015f2	1015f3	N/A
	150	1015d2	1015e1	1015e2	1015e3	N/A
	200	1015d1	1015d1	1015d2	1015d3	N/A
CTD: A730	2	1022d10	1022m1	1022m2	1022m3	N/A
Time: 1500-1700	7	1022d9	1022l1	1022l2	1022l3	N/A
Date: 10/21/98	15	1022d8	1022k1	1022k2	1022k3	N/A
Lat.: 30° 00.0' S	25	1022d7	1022j1	1022j2	1022j3	N/A
Long. 46° 00.0' W	30	1022d6	1022i1	1022i2	1022i3	N/A
	40	1022d5	1022h1	1022h2	1022h3	N/A
	60	1022d4	1022g1	1022g2	1022g3	N/A
	100	1022d3	1022f1	1022f2	1022f3	N/A
	150	1022d2	1022e1	1022e2	1022e3	N/A
	200	1022d1	1022d1	1022d2	1022d3	N/A