

GMT please

Event No.	Stn	Date (GMT)	Start time (hh:mm)	End time (hh:mm)	Lat deg. (N)	Lat minute (dd.dd)	Lon deg. (W)	Lon minute (dd.dd)	Min./max. sample depth (m)	Event description Gear/Cast #	Samples taken (diss./ part./ unflt.)	Comment - types of studies
001	Test Stn Geo1	6/4/08	11:00	11:30	32	15.27	66	04.32	100/400	CL-R	diss + part	Test GOF ros Experiments to check for effect of settling and degassing
002	BATS	6/11/08	23:25	01:45	31	45.94	64	04.87	150/1000	GF-C	diss	Take diss samples to check for contamination
003	BATS	6/12/08	2:30	4:00	/	/	/	/	/	CL-R	/	cast failed due to CTD problems
004	BATS	6/4/08	04:12	05:15	31	46.52	64	05.77	150m	UAFV	diss	Intercalibration samples TE (esp. Pb)
005	BATS	6/4/08	00:12	01:15	31	46.08	64	05.71	150 m	MITV 1-4	diss	"
006	BATS	6/12/08	02:00	06:00	31	46.01	64	05.58	4300 m	KnoR	diss <del>nut</del> nut shells	Test ships rosette for nutrients, O <sub>2</sub> , K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub>
007	BATS	6/12/08	<del>02:00</del>	<del>06:00</del>	31	46.01	64	05.58	4300 m	UAFV	diss	Test CLIVAR rosette for contamination
008	BATS	6/12/08	12:18	13:03	31	46.28	64	5.10	150 m	CL-R	diss	Intercalibration Samples for Pb and other TE
009	BATS	6/12/08	13:30	20:00	31	46.3	64	0.50	10 m	GeoF	/	fill SAFE tanks to flush/condition
010	BATS	6/12/08	20:30	21:30	31	46.16	64	0.5.19	150 m	30-G	diss	Test large GOF ros for contamination
011	BATS	6/12/08	22:00	06:00	31	47.6	64	03.90	10 m	SherF	/	Test Rob's Fish
012	<del>BATS</del>	<del>6/12/08</del>	<del>11:25</del>	<del>11:56</del>	<del>31</del>	<del>46.33</del>	<del>64</del>	<del>05.48</del>	<del>145-150 m</del>	<del>CL-R</del>	<del>/</del>	Removed top Zn anodes to test container.

Sampling gear: GEOTRACES carousel=GT-C; CLIVAR rosette=CL-R; 30L GOFlo=30-G; Mercury GOFlo=Hg-G; UoT's Ex-Niskins=Ex-N

Geo's fish=GeoF; Rob's fish=SherF-v1/v2/v3; ~~MIJESS=MIJEE~~; MIT-vane=MITv; UAF-vane=UAFv; Knorr rosette=KnoR



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012	BATS	6/15/08	01:34	03:15	31	45.86	64	04.83	150m	GT-C	diss	Test Goffos for contamination
013	BATS	6/13/08	06:30	11:00	31	48.11	64	00.12	250/500m	UAFV	diss	Profile sampling
014	BATS	6/13/08	11:25	11:56	31	46.33	64	05.48	150m	CL-R	diss	Test for Zn cont am. after removing top anodes
016 <del>015</del>	BATS	6/13/08	14:10		31	46.42	64	05.43	50/ 400m	MITV	diss	Profile sampling
015 <del>016</del>	BATS	6/13/08	12:00	13:00	31	47	64	03	150m	Hg-G	total	Hg-GOFFlo testing
017	BATS	6/13/08	17:30	18:15	31	49	64	03	150m	UH-GOFFlos	diss	Test for Zn cont am. 2x GOFFlos deployed from keel
018	BATS	6/13/08	18:30		31	49.15	64	03.26	10m	Geo F	none	Refill SAFe tank
019	BATS	6/14/08	02:00 1600 pm GMT	04:30 local 08:30 GMT	31	45.53	64	05.29	250m/ 1000m	UAFV	Diss.	
020	BATS	6/14/08	05:00	06:25	31	45.84	64	05.26	75/ 350	MITV	Diss.	profile sampling
021	BATS	6/14/08	11:00	13:02	31	45.99	64	5.03	500m/ 150m fin	GT-C	none	Bottle Flush only
022	BATS	6/14/08	13:03	14:00	31	45.99	64	5.00	400m	GT-C	O <sub>2</sub> +Sal+Ca <sup>2+</sup> Sensor calibration	Calibration Bottle flushing
023	BATS	6/14/08	17:10	18:00	31	45.95	64	5.43	150m	MIT-Vanes	Diss	Sample for Measures Lab

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Geo's fish=GeoF; Rob's fish=SherF-v1/v2/v3; ~~MITES=MITE~~; MIT-vane=MITV; UAF-vane=UAFV; Knorr rosette=KnoR



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024	BATS	06/14/08	18:15	18:40	31°	46.97	64°	5.31	400m	CL-R	None	CTD Test <sup>New Term. station</sup> failed/Spiked at 392m
025	Temp BATS	06/15/08	2:09	3:15	32°	7.91	64°	22.84	1000m	CL-R	None	CTD test "Ext. sea cable Spiked at 372m"
026	Temp Bats	06/15/08	<del>2:48</del> 3:15	4:15	32°	07.91	64°	22.84	1000m	GT-C	uflit O2+SEL+Chl	Calibration of sensors
027	Temp BATS	06/15/08	12:18	13:31	32°	7.93	64°	23.7	300m	GT-C	"	"
028	Temp BATS	06/15/08	13:38	14:36	32°	7.9	64°	23.8	150m	GT-C	"	"
029	Temp BATS	06/15/08	21:04	21:59	31°	46.12	64°	5.13	<del>1000m</del> 150m	CL-R	filter.	CTD Test Failed
<del>030</del> 029	BATS	06/15/08	22:30	23:25	31°	46.48	64°	5.35	500m	GT-C	Test "A-Team"	Filtered samples
031	BATS	06/15/08	01:41		31°	46.41	64°	05.73	3500m	UAFV	Diss TE	
032	BATS	06/16/08	05:00	06:58	31°	45.50	64°	05.02	1000m	MITV	Diss TE	profile
033	BATS	06/16/08	11:20	12:30	31°	45.5	64°	05.02	1050m	CL-R	150m diss.	CTD Test of New CTD Test passed!
034	BATS	06/16/08	12:45		31°	45.5	64°	05.02	100m	GeoF		
035	BATS	06/16/08	19:29	20:14	31°	46.65	64°	04.29	<del>25m</del> 1000m	CL-R	<del>125-120m</del>	Filter CTD Test.
036	BATS	06/16/08	22:30	00:24	31°	46.01	64°	04.96	2000m	GT-C	Filtered TEI	Flush B-Team <sup>u</sup>
037	BATS	06/17/08	01:00		31°	46.01	64°	04.90	4000	UAFV	Diss TE	TE profile.

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Geo's fish=GeoF; Rob's fish=SherF-v1-v2-v3; MITESS=MTE; MIT-vane=MITV; UAF-vane=UAFV; Knorr rosette=Knor



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038	BATS	06/17/08	11:35 <del>11:36</del>	12:20	31°	46.00	64°	5.00	1600m	CL-R	12x 100m Filt	CTD test Particle filtration test
039	BATS	06/17/08	21:23	22:14	31°	44.48	64°	04.05	1000m	CL-R	—	—
040	BATS	6/17/08	2330	9:00	31°	45.89	64°	04.96	1400	UAFV	Diss TE	—
041	BATS	6/18/08	15:20	6:20	31°	45.98	64°	04.81	1000m	CL-R	filters	Particle experiments P. Starnell
042	BATS	6/18/08	18:37	06:31 <del>06:30</del>	31°	45.47	64°	4.62	4200m	GT-C	Filtered + unfiltered	Practice full depth profile
0403	BATS	6/18/08	11:00	14:00	31°	46	64°	5	2000m	MITE	Filtered TE	—
043	BATS	6/19/08	11:50	12:50	31°	46.09	64°	05.04	1000m	CL-R	Filtered- particles	—
044	BATS	6/19/08	12:50	1:30	31°	46.09	64°	05.04	4500m	GT-C	none	Re spool Winch
045	BATS	6/20/08	10:42	12:06	31°	46.01	64°	05.12	4546	GT-C	unfilt.	Fill safe Tank A
046	BATS	6/20/08	12:15	13:05	31°	45.73	64°	05.79	1000m <sup>1300</sup>	CL-R	filters	Particle experiment P. Starnell
048	BATS	6/20/08	18:00	18:40	31°	46.38	64°	05.71	1000m <sup>1800</sup>	CL-R	500m filt Fe isotopes	Samples (filters) for Seft fill safe Tank
047	BATS	6/20/08	14:00	16:06	31°	46.38	64°	5.71	2000m	GT-C	unfilt.	Fill safe Tank B
0447 0448	BATS	6/20/08	19:28	21:28	31°	45.1	64°	65.3	2000m	GT-C	unfilt.	Fill safe Tank A
050 049	BATS	6/20/08	21:32		31°	45.01	64°	05.73	1000m <sup>1300</sup>	CL-R	filters	particle experiment P. Starnell

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051	BATS	06/20/08	23:45	01:45	31°	45.94	64°	05.20	2000	GT-C	unfilt.	Fill safe tanks
052	BATS	6/21/08	02:06	07:15	31°	45.78	64°	6.27	2400-4000	MTV	Diss	Profile - deepest sample
053	BATS	6/21/08	11:10	12:05	31°	46.00	64°	05.00	1000	CL-R	TSM 1000m	
054	BATS	6/21/08	12:00	14:00	31°	45.70	64°	05.42	30 to 2000	GT-C	Filt	Fill safe tanks; Zn spec.
055	BATS	6/21/08	15:53		31°	46.29	64°	04.43	0 to 4200	GT-C	unfilt/ Filt	Deep thg cast
056	BATS	6/21/08	21:15	21:32	31°	45.75	64°	04.76	200	CL-R		
057	BATS	6/21/08	22:00	2:45 <del>06:00</del>	31°	45.75	64°	04.76	4200m	GT-C		ABOLTED isotope cast
058	BATS	6/22/08			31°	46.02	64°	04.84	1250m <del>200</del>	CL-R		
059	BATS	6/22/08	15:15	16:50	31°	45.49	64°	5.25	200m	GT-C	filtr unfilt.	re-fill safe tank
060	BATS	6/22/08	16:45		31°	46.05	64°	05.24	200m	CL-R	Fill 60 Fls	Fill 60 Fls let soak overnight
061	BATS	6/22/08	22:30	6:23:08 1:55:20	31°	46.08	64°	04.98	3500m	GT-C	Filt/unfilt	isotope cast
062	BATS	6/23/08	11:40	12:50	31°	46.97	64°	05.10	800m	GT-C	Filt/unfilt	Concentration hydrocast 0-800m
063	BATS	6/23/08	13:35	13:50	31°	46.17	64°	05.13	200 <del>1500</del>	CL-R	filter Zn test	test passed!!
064	BATS	6/23/08	17:35		31°	44.55	64°	07.28	1000m	CL-R	Hg	

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065	BATS	6/23/08	21:40	22:33	31°	45.998	64°	05.0	1000m	CL-R		
066	BATS	6/23/08	23:30	400	31°	45.997	64°	05.02	2000m	GT-C	unfilt	Safe Tank Filv #7
067	BATS	6/24/08	12:18	16:33	31°	45.99	64°	05.09	4000m	GT-C	Filt unfilt	Deep concentration cast -
068	BATS	6/24/08	16:48	17:31	31°	46.82	64°	05.66	750m	CL-R	filter	
069	BATS	6/25/08	11:44	12:32	31°	46.039	64°	05.08	1020m	CL-R		
070	BATS	6/25/08	14:10	16:00	31°	45.60	64°	04.72	800m	GT-C	Filt unfilt	Re-do Shallow Cast Event #62
071	BATS	6/25/08	21:00	21:55	31°	45.86	64°	05.024	1020m	CL-R	filter	
072	BATS	6/26/08	11:30	15:03	31°	45.90	64°	05.15	4000m	GT-R	filtered	Wu, Fe isotope profile
073										Geof		
074	BATS	6/29/08	21:30	23:45	31°	46	64°	5	1000m	Mul-V	take 30min 1 pump.	Cable spooling Bishop
075	BATS	6/30/08	00:30	01:20							filter	Hydrocast
076	BATS	6/30/08	15:19	15:40	31°	46.10	64°	04.64	Surface 800m	KnorR	unfilt. water	Phosphate 180 Nitrate 150 180
077	BATS	6/30/08	16:22	18:00	31°	46.24	64°	04.89	Surface 2000m	KnorR	Diss + partic	Nd isotopes
078	BATS	6/30/08	18:00	18:15	31°	46.538	64°	05.22	Surface	ships seawater intake	Diss Ra, Th, Ac isotopes	Ra intercal tank 1

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NUTV



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079	BATS	6 Jun 30	2040		31°	46.78	64°	04.52	30/900	MUVF501	PART	Bishop et al.
080	"	"	2300	030	31°	46.62	64°	06.46	30/900	MUVF5 S JART/STOP		Tank 2 of 4 Intercalibration tanks
081	"	"	0730	1000	31°	45.78	64°	04.71	2000 150/4000	Kno R	Dissolved/ Part./Unfilt.	Nutrient isotopes & ND
082	"	"	1105	1330	31°	45.92	64°	04.78	@ 100 m	McLane test cast	Particle	Manti
083	BATS	7/1/08	1350	1602	31°	46.21	64°	05.48	2000 m	GT-C Safe tank	Unfilt/ Filt	Fill Safe Tank #1
084	BATS	"	1400	1700	31°	45.22	64°	04.99	surf.	Ship's SW intake		Fill Re tank 4
085	BATS	"	1717	2018	31°	46.30	64°	05.40	100 m	McLane Skidcast	Particle	Manti
086	"	"	1630	1800		45.07		04.84	surf	Ship's SW intake		fill Re tank 5
087	"	"	20:00	20:30	31°	46.00	64°	05.37	surf 800	Kno R	Filt. H2O	NO3 isotopes
088	BATS	7/1/08	21:05	22:58	31°	45.4	64°	04.64	2000	GT-C	unfilt/ filt	Fill Safe Tank #2
089	BATS	7/1/08	22:47		31°	45.33	64°	04.78	2000	Kno R	DISS + PARTIC	BATS DEEP Thorium cast
090	BATS	7/1/08	13:50		31°	45.33	64°			McLane Cast B	Particle	Manti
091	BATS	7/1/08	0345		31°	45.897	64°	04.864	2000	GT-C	Filt	fill Safe tank #3

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092	BATS	July 2 2008	0630		31°	45.26	64°	03.776	30/900	MUVFS-2	all	one operator
			0835	ON	31°	45.55	64°	05.24	30/900	MUVFS-2	PART	Bishop/Charotte
			1305	OFF		46.07		08.43	30/900			
			1458	WP		46.57		10.20	Surface	Moore tank for plutonium	Diss/ Total	Kenna
093	BATS	July 2			31°	46.2	64°	08.8				
094	BATS	July 2	10:15		31°	45.208	64°	5.4965	30%/1000	Rg cast Knorr	redissolved Rg	Charotte
095	BATS	July 2	17:56		31°	45.37	64°	05.35	20/4400	Baseline ND TH	Dissolved partic	Anderson (+ LDEU Ra Flow rate exp tank)
096	"	"	1900	2030	31°	45.54	64°	05.74	surf. Swintake	Ral Charotte		tank fill #4
097	BATS	7/2/08	0145		31°	44.869	64°	03.464	2000m	GT-C	filtered	
097	BATS	7/2/08			31°	45.87			60m	Mc Lane Rosett		Mc Lane Manti
098	BATS	7/2/08			31°	44.869	64°	03.464	2000m	GT-C	filtered	tank fill #9
099	BATS	7/2/08	00:40							Mc Lane Rosett		
100	BATS	7/2/08	0820		31°	45.125	64°	03.606	2000m	GT-C	filtered	tank fill #5
101	BATS	7/3/08	10:12	10:25	31°	45.61	64°	04.29	20m	Knorr	dissolved partic	LDEU, Th, Pa
102	BATS	7/3/08								GT-C	particulate (only) various filters	Rutgers Part
103	BATS	7/2/08	1352		31°	45.202	64°	04.018	2000m	GT-C	filtered	Tank fill #4 Steel filter Knorr

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104	BATS	7/3/08	15:28		31	45.58	64	04.58	500/2000	KnOR <sup>10</sup>	ISO TOPES NO <sub>3</sub> -PO <sub>4</sub> -P	
105	"	"	16:00	16:30	°	"	°	"	surf.	Ra tank		Flow rate exp.
106	"	"	17:00	17:30	°	"	°	"	Surf	"		"
107	"	11	16:46		°	"	°	"	2000	McLane Rosette		K. Maiti
108	"	7/4/08	00:15	00:19	31	45.32	64	03.90	20M	KnOR <sup>11</sup>	Nd	
109	BATS	7/4/08	00:55		31	45.326	64	03.986	2000m	GT-C	fil head	tank fill (dup2) #1
110	"	"	05:15		31	44.78	64	02.58	2000	GT-C	--	tank fill (dup2) #2
111			05:50		°		°		30/900	MULTIF START STEP	PART	OTD
			08:40		31	44.77	64	03.975		RECOVERED		MUL START
			13:10		°		°					
			14:45		°		°					
112	BATS	7/4/08	15:40		31	45.515	64	04.099	2000	GT-C	fil head	tank fill (dup2) #3
113	BATS	7/4/08			°		°		2000	McLane Rosette	Partette	K. Maiti
114	BATS	7/4/08	23:10	23:45	31	44.38	64	04.4	9400	KnOR <sup>12</sup>	ISO TOPES NO <sub>3</sub> -PO <sub>4</sub> -P	I wanna mai-tai
115	BATS	7/4/08	23:50	01:20	31	44.411	64	04.710	2000	GT-C	fil head	tank fill (dup2) #4
116	BATS	7/4/08	10:30	01:15	31	44.61	64	05.56	200	5 liter sent Milane pumps	partette	K. Maiti

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Geo's fish=GeoF; Rob's fish=SherF-v1/-v2/-v3; MITESS=MITE; MIT-vane=MITV; UAF-vane=UAFV; Knorr rosette=KnOR



Event No.	Stn	Date (GMT)	Start time (GMT)	End time (GMT)	Lat deg. (N)	Lat minute (dd.dd)	Lon deg. (W)	Lon minute (dd.dd)	Min./max. sample depth (m)	Event description Gear/Cast #	Samples taken (diss./part./unfilt.)	Comment - types of studies
117	BATS	7/5/08	7:32	8:32	31°	44.4	64°	3.2	1000	GT-C	Filtered	Shell exp
118	BATS	7/5/08	6:00	11:40	31°	44.56	64°	3.9	2000	McLane	LV Particle	McLant
119	BATS	7/5/08	15:15		31°	44.500	64°	03.509	4000	GT-C	Filter	Deep benthic profile
120	BATS	7/5/08	10:25		31°	44.257	64°	03.505		MULVES start.	MULVES 4 Filter	Bishop/Charlote
			START 2/25		31°	43.946	64°	06.222		OFF END		
			STOP 01:55		31°	44.02	64°	07:02		Nd cast	Particle	K. Maiti & Spike
			END 03:45		31°	44.4	64°	09.5	2000	GT-C	Filter	Rob Filter experiment
121	BATS	7/6/08	03:07		31°	44.4	64°	09.5	2000	GT-C	Filter	Rob Filter experiment
122	BATS	7/6/08	9:25		31°	44.4	64°	09.5	2000	GT-C	Filter	Rob Filter experiment
<del>123</del>	<del>BATS</del>	<del>7/6/08</del>	<del>9:30</del>		<del>31°</del>	<del>44.4</del>	<del>64°</del>	<del>09.5</del>	<del>800</del>	<del>McLant</del>	<del>Particle</del>	<del>McLant</del>
123	BATS	7/6/08	9:30		31°	44.4	64°	09.5	800	McLant on wire profile	Particle	McLant
124	BATS	7/6/08	19:11		31°	43.90	64°	10.30	20	Knob	GESS Particle	Thorium Neodymium
125	BATS	7/6/08	20:54		11°	11	11	11		McLant profile	Particle	Particles K. Maiti
126	BATS	7/6/08	6:54		31°	44.7	64°	14.7	2000	GT-C	Unfilt	Partial tank fill
127	Sneif	7/9/08	12:00		31°	44.7	64°	14.7		GT-C	GT-C	
XX	BATS	7/5/08			31°	44.7	64°	14.7		GeoF	dissolved Th/Hf	both safe tanks

Sampling gear: GEOTRACES carousel=GT-C; CLIVAR rosette=CL-R; 30L GOFlo=30-G; Mercury GOFlo=Hg-G; UoT's Ex-Niskins=Ex-N  
 Geo's fish=GeoF; Rob's fish=SherF-v1/v2/v3; MITESS=MITE; MIT-vane=MITV; UAF-vane=UAFV; Knorr rosette=Knor



Event No.	Stn	Date (GMT)	Start time (GMT)	End time (GMT)	Lat deg. (N)	Lat minute (dd.dd)	Lon deg. (W)	Lon minute (dd.dd)	Min./max. sample depth (m)	Event description Gear/Cast #	Samples taken (diss./part./unfilt.)	Comment - types of studies
128	SLOPE	7/9/08	1440		37°	0.866'	74°	25.025'	1000	GT-C	diss mts	hydrocast
129	SLOPE	7/9/08	1524		11°	11	11	1000		McLane Particulate	Particulate	Particulate
130	SLOPE	7/9/08	22:10		37°	01.918	74°	24.32	23/900	MUNVFS START STOP	Deeplog Partic	Bishop et al.
	↓		23:42									
	↓		03:42									
	↓		05:50									
131	SLOPE	7/10/08	0630		37°	02.002	74°	23.815	1000	GT-C		
132	SLOPE	7/10/08	0745	0815	37°	01.676	74°	23.882	632	KnOR	14 Th (diss. part.) Phosphate & PO4	LOED Deep particulate med
133	SLOPE	7/10/08	8:17		11°	11	11		max 80m	McLane Rosette	Particulate	K-Maiti
134	SLOPE	7/10/08	12:30		37°	02.101	74°	24.022	chl. max 1400	KnOR	Nutrient Rosette	Colman/McIlroy BZE 2 in ski
135	SLOPE	7/10/08	13:42		11°	11	11	80m		McLane Rosette	Particulate	K-Maiti
136	SLOPE	7/10/08	17:30		11°	11	11			GT-C	Particulate Diss. metals mts	Shernell
137	SLOPE	7/10/08			37°	02.074	74°	23.87	100m	KnOR	Nd cast TO 100M	LDED
138	SLOPE	7/10/08	20:00		37°	01.79	74°	24.12	23/900	MUNV=6	PART	START
	↓		23:30		37°	00.98	74°	24.69				FINISH. All Secured.
	↓		03:30									
	↓		05:30									
139	SLOPE	7/11/08	05:08		11°	11	11	80m		McLane Rosette	Particulate	K-Maiti

Sampling gear: GEOTRACES carousel=GT-C; CLIVAR rosette=CL-R; 30L GOFlo=30-G; Mercury GOFlo=Hg-G; UoT's Ex-Niskins=Ex-N  
 Geo's fish=GeoF; Rob's fish=SherF-v1-v2-v3; MITESS=MITE; MIT-vane=MITV; UAF-vane=UAFV; Knorr rosette=KnOR

140 SLOPE 7/11/08 07:00 Mclan Rosette K-Maiti



