GMT phase

			2	111	000					and the state of t		
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./ unfilt.)	Comment - types of studies
200	test Stn.	(17)	-		0 6	15,77	0 97	0 00,77	100/1001	2-7)	100	Trad 607 fos Experiments tocked for
3	100	00-11 20/26	00:11	08-11	00	17'00	0	24.30)		aiss + purt	affect of softling and degassing
200	MTS	80/11/9	23:25	01:45	0 12	45.94	0 39	15.94 64 04.87	<u>8</u>	CITC	diss	Take dissample to check to contamination
83	3475	3475 6/12/08	2:30	4:00	0	\	0	1	\	2-70		cast failed due to
500		MTS 6/4/08 04:12	04:12	51:50	0 -8	46.52 64 05.77	649	77.30	150m	WAFV	diss	Interculton how samples TE (50. PS)
500	3475	80/m/9	20:12	01:15	31.0	46.08	0 49	64 05.71	150 m	MITV 1-4	diss.	17
900	3473	3475 6/12/08	02:00 06:00	00:30	31.	10.94	0 59	64 05.58	4300 2	KnoR	diss Mass nulstalls	diss Test ships poselly for
100	3475	3475 6/2/08 CROWN	Charles	Meson.	31	16. en	59	o 05.88	Br	UATN	diss	Test all VAR rosoft
200	3475	008 3ATS 6/12/08	12:18	13:03	310	46.28 64 5.10	0 49	5,10	180 m	4.2		Interdibation &
600	34TS	30/21/9 STAC	13:30	20:00	0 8	46.3	64	05:0 h9	10 m	Geor	\	fill SATE tanks to that londition
010	3475	010 3475 6/12/08 20:30	20:30	21:30	3 .	91.94	59	0.5.19 150m	(30 m	5-02	diss	Test Abuye GOTOS la confamination
04	STA	3475 6/12/08 22:00 06:00	22:00	06:00	31	924	<i>h9</i>	64 03.90 100	10	Shert	\	Test Rob's Fish
3/	BATTS	8/3/08/H-25 11/26	75.7	1	ofth	46,33	· K	84.50	4633-64 05.48 HIS-150m CL-B	CL-R	1 24	Romoved top In anodes
Sampli	ng gear.	Sampling gear: GEOTRACES carousel=GT-C;	SES carou	sel=GT-C;		AR rosette:	=CL-R;	30L GOF	o=30-G; Mer	CLIVAR rosette=CL-R; 30L GOFio=30-G; Mercury GOFio=Hg-G;	UoT's Ex-Niskins=Ex-N	Ex-N

Geo's fish=GeoF; Rob's fish=SherF-v1/-v2/-v3; MITESS-MHFE; MIT-vane=MITv; UAF-vane=UAFv; Knorr rosette=KnoR EOTRACES carousel=G1-C; CLIVAR rosette=CL-R; 30L GOFI0=30-G; Mercury GOFI0=Hg-G; UoT's Ex-Niskins=Ex-N

				1	V	to 0							
Comment - types of studies	Test Golfos fa combinisation	Indice sampling	Test for En contam. The removing top anodes	Refile Sampling	Hy CAPTIO testing	Test for 20 con lam. 2x	Refill SATe bank		profile profing	Bothe Flush only	Sensor Calebration Po He Pholico	Sample for Masures Lab	N-X=
Samples taken (diss./ part./ unfilt.)	diss	diss	0/38	Orss	John	diss	none	Diss,	Diss.	None	5+5a[+Ca] Calchagation Sensor calabation Bothle Acus	D'55	UoT's Ex-Niskins=
Event description Gear/Cast #	719	し、本下し	CL-R	カエン	Hg-G	UH-GERLOS	Coo T	UAFY	MIT	9-19	GT-C	MIT-VANES	CLIVAR rosette=CL-R: 30L GOFIo=30-G: Mercury GOFIo=Ha-G: UoT's Ex-Niskins=Ex-N
Min./max. sample depth (m)		250/500m	150 m	50/ 400m	150 m	(50m	1014	64 05.29 Esom/	45,84 64° 05,36 75/20 MITV	64° 5.03 20m/ GT-C	7000	64 5.43 150m	o=30-G: Mer
Lon minute (dd.dd)	28:40 49		o 64 OS. 4P	24.30 hg	03	64 03	64 03.26	05.29	96.20	5,03	64 5.00 wan	5.43	30L GOF
Lon deg. (W)	49	649	0 9	6	64 03	64	64	0 0	on9	0+9	C. C.	0 70	CL-R:
Lat minute (dd.dd)	45.86	11.84	16.33	46,42	47	64	49.15	45.53	h8'Sh	15.39	45.79		R rosette=
Lat deg. (N)	37.0	300	3] 0	310	310	0 - 2	31	0 /8	0 15	31.0	0 18	0 - 5	
End time (hh:mm	03:815	00:11	95:11		13:60	18:45	April 1	3 82	063531	1302	1460	18:00	sel=GT-C:
Start time (hh:mm	45:10	08:30	11:25	14:10	12:00	17:30	18:30	1800pm 0260 Gent		1100	1363	010	ES carous
Date (GMT)	3ATS 6/16/08 01:34 03:815	3475 6/18/08 06:30	80/81/08	20/21/9	6/13/08 12:00	017 3475 6/13/08 17:30	018 3475 6/13/68 18:30 48:	019 BATS 6/14/68 0260	020 BATS 614108 050	021 BATS 6/14/08	BATS 4/14/08 1303	023 BATS 18/14/08 1710 18:00 31 45.95	Sampling gear GEOTRACES carousel=GT-C:
Stn	SATS	3MTS	2475	3.475	3475	3475	3475	BATS	BATS	BATS	BATS	BATS	ng gear
Event No.	012	D13	410	300	SIS SIS	210	018	610	000	170	270	023	Samplin

Sampling gear: GEOTRACES carousel=GT-C; CLIVAR rosette=CL-R; 30L GOFIo=30-G; Mercury GOFIo=Hg-G; UoT's Ex-Niskins=Ex-N Geo's fish=GeoF; Rob's fish=SherF-v1/-v2/-v3; -WHTESS=WITE; 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	
ort	9ATS	29975 OG/14/08 18:15	51:81	(8:40	3.0	46.97 Cot	64	5.31	400 W	CL-R	None	ETD TOST Termination for led 150 ledat 392m	A2m
125	Temp	025 Jan 6/15/08 2:09		3:15	320	162	64	7.91 64 27.84 1000m	1000m	2-72	None	Spike at 372m	Da
226		Bats Octision 2:48 4:15	Sitt	4:15	25	16:40	0 रे	2284	07.71 44° 2284 6000m	9T-C	ufilt ortseltch		
627		06/12/08	04/15/08 12:18 (3:31 32	(3:31	32°	7.93	eto	7.93 64° 23.7 300 m		9-15	ω	,	
879	BAT S	1/12/08	W/15/06 13:38 14:36 32°	14:36	250	4.9	let.	23.8	7.9 log 23.8 150m GT-C	9-1-6	y	1	
020	Temp BATS	8/2/9	6/15/08 21:04 21:59 31	21:59	3,0	61.2 64 5.13	119	5.13	150 m CL-R	CL-R	filter.	CTO TOST FELLO	Ħ.,
ose pare	BATS	BATS VISIOS 2230 23:25 31	22.30	13:25	31 °	46.48 64 5.35	et o	68.35		J-19	Test A-Team:	Alterd Sarplus	
131	BATS	031 BATS 6/15/8 0141	1410		310		0 79	05,73	46,4 64° 05,73 3500m	UAF,	Diss		
133	BATS	032 BATS 6/16/08 05:00 06:38 31°	00:50	06:38	330	45.50	, 64°	el.20	15,50 64° 05.02 1000m	MIN	Diss	profile	
333	13473	033 BAB 00/6/09/18/12 12:50	2:119	12:3	3 0	45.5 64 05.82	64	05.82	1050 m	CL-R	150 m	CTD Test w/NewCTD Test pased !	Q
改	BATS	BATS 00/16/08 12:45	12:45		3/	45.5 64 05.42	64	05.42	OKA-	Geo F			
035	BAB	80/91/90	62:16	41:02	· ~	035 BAB obliboo 19:29 20:14 31 46.65 64 04:29	. 49	64.29	toto m	a-4	125-120m C7D Test	Filter C7D Test,	
330	BATS	036 BAB 4 (Let 18823:30 06:24 31	33.30	20:24	The state of the s	46.01	Cot	04.96	46.01 64° 04.96 2000 GT-C	GT-C	FI thed TE I	flush B-Team	
337	BATS	037 BATS 6/17/2 0100	0140		° -	46.01	0 79	000 to 04.90 4000	4000	UAF	Diss	TE profile.	
ampli	na gear	GEOTRA	Sampling gear: GEOTRACES carousel=GT-C: CLIVAR	usel=GT-	0		S=CL-R	· 301 GOF	-In=30.G: M.	Profitor GOFIo=	mosette=CI_R: 301 GOFI0=30.G: Marciny GOFI0=Ha.G: 110T's Fy-Niskins=Fy.N	x-Niskins= Fx.N	

Sampling gear: GEOTRACES carousel=GT-C; CLIVAR rosette=CL-R; 30L GOFIo=30-G; Mercury GOFIo=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

	+2									1		1		
Comment - types of studies	Statick filtration test			Patick exposurats	Proctice fall			Respect /	FILL SO FE	Putch eaterines 7. Semil	Somples (Jilles)	411 SOF	All Safe Touch	849 RATS W/20/0021532 31° HS.OI GH 05.3 18/00 CL-R Jilkes parkel experient
Samples taken (diss./ part./ unfilt.)	12x 12em		Diss TE	Mes	Filtered+ unfiltual	Filtered TE	Filtered- particles	New	"+1.5mm	1. Thes	Szella FIT	wait.	unfilti	Jilhers
Event description Gear/Cast #	CL-R	CL-R	WAS	01-R	GT-C			91-1	GT-C	CL-R	E K	arc		CL-R
Min./max. sample depth (m)	1600 m	44,48 64° 04.05 (000m	1400	W-000)	4250m	2000m MITE	46.09 64 05,04 1000m CL-R	46.07 by OS.04 450m GT-C	16.01 64 05.12 4546 GT-C	31 45,73 64 0579 1300m CL-R	46,38 64° 0571 (000 m	Zovan GT-C	2000m GT-C	130/ 1000 m
Lon minute (dd.dd)	S.m	04.05	96'40	04,81	4.62	7	40,30	40'50	21.50	95.79	1450	K'S	65.3	05.3
Lon deg. (W)	let o	64.	0 79	. 72	。古	0 49	0 45	و ٠	et.	64.	ote	et o	et o	c to
Lat minute (dd.dd)	46,00 by Sen	44.48	96'the to 68'St	45.98 64° 04.81	45.4764 4.62	46 64	6.09	46.07	10.07	-5,73	46,38	46.38 bt 5.71	45. [64 65.3	45.01 GH 05.3
Lat deg. (N)	200	0 -	3/0	3 0	310	0 12	0 4	310	310	0 0	0 10	310	° ~	3(°
End time (GMT)	0227		6:6	6:20	06:31	14:00	17:50	1:30 (3)	17:46	130051	18:40	90:07	21.72	
Start time (GMT)	11:35	039 BATS 06/17/08 21:23 22:14	2330	041 8ATS 6/18/68 15:20 6:20	042 BATS 4 18 106 18:37 06:31	00:11	043 BATS 6/18/68 11:50 12:50		27:01	046 BATS 46/8 12:15 1305	(8:00	30-17 BAS 6/20/08/4:60 (6:06	BATS 4 [20/08 19:28 21:28	21,32
Date (GMT)	BATS 64/19/08 14=35	04/7/18	040 BATS 6/17/68 2330	89/81/9	salsi /	0403 3475 6/18/08 11:00	89/20/9	044 BATS 6[19[18] 12:50	BATS 4/20/08 16:42	8/07	048 BATS \$62/08	6/20/02	u[20/08	BATS Wolge 25:32
Stn	DATS	BATS	BATS	BAB	SATS	3ATS	BATS	STAS	BATS	BATS	BATS	BAS	BATS	BATS
Event No.	850	950	040	140	045	0403	043	1440	CF5	9	9438	450	77 75	8\$

Sampling gear: GEOTRACES carousel=G1-C; CLIVAR rosette=CL-R; 30L GOFIo=30-G; Mercury GOFIo=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

1														
Comment - types of studies	Fill SAffe tambs	profile of surpo		Fill SAFE tauts;	Deep Hg		ABOUTED COAT		Refill Safe Taut	File 60 Flos let saak overnight	isotopecast	Concernation Indinast 1-800m	test passed!	064 BATS 6/23/08 (7:35 31° 44, 55 64 07,28 1000 M CL-R Hg
Samples taken (diss./ part./ unfilt.)	dufit.	Diss	TSM (aco m	Filt	Municity/				titt (4,	FIPE Go Flox	मिस्नियानुस	tilt/wasit	filter Entest	\$ 50 C
Event description Gear/Cast #	GT-C	MIT	CE-K	GT-C	9T-C	CL-R	6T-C	CL-R	745	8-77	-10	617	a-R	4-R
Min./max. sample depth (m)	0000	-00tc	0001 00'50 49	30 to 2000	4200	200	45.75 64 04.76 4200m GT-C	31° 46.02 64° 04.94 1250m	2000 m	46.05 64° 05.24 200m	46.08 64 04.98 3500m Cat-c	16.97 64 66.10 800 m	200 1990 M	1000M CL- R
Lon minute (dd.dd)	6,105.20 2000	6.27	00'50	05.42	04.43	of, 76	04.7°	4.4	5.25	85.24	86.48	0.8	0\$ 13	07.28
Lon deg.	3	640	0.40	0 4	64°	640	CTO	0 50	et°	640	o To	079	640	64
Lat minute (dd.dd)	45.94	45.78 64 6.27	46,00	45.70 64 05.42	31 40.29 64 04.43 4200	356 BAS 84/08 21:15 21:32 31 45,75 64 04,76 200	45.75	46.02	45,49 lot 5.25 ZONOM	26.05	46.08	46.97	46/17 64 05/13	44, 55 64 04.28
Lat deg. (N)	° म	0 15	0 -	30	370	310	° त	0 0	370	0		· 5	° 77	0 0
End time (GMT)	0145	51:10	121.05	[400		21:32	Shi7 00166		15 05:01 51:51 801661 27 31		BATS 424-30 (155:70 31	15.20	13,50	L
Start time (GMT)	2345	0700	01:11	12.80	1553	21:15	33:00		15:15	6:45	22:30	4:11	13:35	(干:35
Date (GMT)	06/20/08/2345	052 8475 6/2408 0200	053 BATS 6/21/08/11:10	BATS 1/08 1200	BATS 92/08 1553	80/12/	BATS 45168	058 BATS 6/22/8	Salce/2	BATS 6/2/08 16:45	Poles	062 BAD 423/46 11:40 12:50	8A5 663/8 13:35 13:50	064 BATS 6/23/08 (7:35
Stn	Z Z Z	BATS	BATS	BATS	BATS	BATS	BATS	BATS	24B	BATS	BATS	BAD	348	BATS
Event No.	150	057	953	120	88	950	£50	990	059	80	190	2019	690	490

GEOTRACES carouseled. CLIVAR rosette=CL-R; 30L GOTIO=30-G; Mercury GOTIO=Hg-G; UOTS EX-NISKINS=EX-N Geo's fish=Geof; Rob's fish=SherF-v1/-v2/-v3; MHTESS=MHTE; MIT-vane=MITV; UAF-vane=UAFV; Knorr rosette=KnoR

											4	7			
Comment - types of studies		SA TOWKHU # # # # # # # # # # # # # # # # # # #	Deep concentration			Re-do Shalla		Wu Fe isotope profile		test 30 min Cuble specting	Hydocourt	Withoute 15 N 18 O	Nd 150 Paper	ships inthe Diss Rath, Ra interest tunk!	CLIVAR rosette=CL-R; 30L GOFIo=30-G; Mercury GOFIo=Hg-G; UoT's Ex-Niskins=Ex-N
Samples taken (diss./ part./ unfilt.)		wallt	Fith/ wafith	filter		Filt/ WAFILT	filter	R: Hereal		+ est 30 min	12/14			Diss Ra Th.	Hg-G; UoT's E
Event description Gear/Cast #	QR	GT-C	GT-C		CL-R	45.60 64 04.72 800m GT-C Filt/	45,96 64 05,024 1020m CL-R	GT-R	Guef	7-1n/N	G18-C	Knot Water	Kno R Porter	Ships intile	lercury GOFlo=
Min./max. sample depth (m)	[00 0m	45.97764 0.502 2000m	4000 m	750 m	31° 46039 64° 05:018 1020m	Stum	1020m	45,90 64 05.15 4000m GT-R		I Boom	45.87 64 5.413 46com	U.D CU OY.CY Sortace	46,24 64° 04,89 surface	46-938/64° 05.22. Surface	Flo=30-G; N
Lon minute (dd.dd)	050	0.502	506	995	05.018	04.72	05,024	05.15		S	5.413	o4.64	68' 40	26:30	; 30L GO
Lon deg. (W)	64	by by	० ५०	64	640	49	64.	649	0	640	ct.	CHO	640	0 19	=CL-R
Lat minute (dd.dd)	45.998 64 05.0	45.97	31 4599 64 509	46,82 64 556	46039	45.60	45,96	0634		40 640 g	45.87	8.25	46,24	i46.53%	VAR rosette
Lat deg. (N)	310	ु र	310	3	· ~	310	° m	3	0	0/6	310	200	310	0	
End time (GMT)	22:33	429	1633	17:31	(2:32	[6700]	21:53	65:03		23:48 61:10		04:51		18.15	usel=GT-
Start time (GMT)	21:40	33:30	12:18	16:48	4:1	01:41	2 :00	11:30		27:30	11:11	15:19	72391	(\$28)	GEOTRACES carousel=GT-C; CLIV/
Date (GMT)	065 BATS 6/23/8 21:40	066 BATS 42360 23:30 400	8475 Yet/08 12:18 1633	068 BATS 4/4/8 16;48 17=31 3	069 BATS \$25/0811:44 12:32	070 BATS 6/25/08 14:10 16:1001 31°	BATS 6/5/68 21:00 21:55	072 34756/24/08 11:30 15:03 31		PIX 6/20/04 21:30	4/346 7:22	076 BATS 6/268 15:194 15:40 21°	077 BATS 615/08 16,22 1800	078 BATS 6/30/08 1800 1815 31	Sampling gear: GEOTRACES carousel=GT-C;
Stu	BATS	BATS	SES SES	BATC	BATS	BATS		3475		SAS S	BAS	BATS	BATS	BATS	ng gear.
Event No.	900	990	face	890	690	010	40	072	673	老	350	940	45	820	Samplir

Comment -	हामाक प व्य	j.	nterelisation take	Particulty Nutrientherapes Particult, & Not	Mat	All See Tank #	F(Pa 4	Max	All Pa 5	Nos isotopes	FILSON TONK #2	BATS DEEP	mahi	6T-C RIT FULL #3 tack
Samples taken (diss./ part./ unfilt.)	pork	708		Disselved	Partide	11 th		parkie			UMFILY FIH	DISS +	Particle	R:H
Event description Gear/Cast #	4638 64 0452 30/900 Marvissa part	NULLY STARING TOP	Re tank	45.78 64 04,71 RSO/4000 Kno R3	McLane test cast	STATES OF STATES	Ships	Melone Shallast	Ship's Sw	Kar Hilt. Ho	GTC	Kno R 3	mcland cart B	6T-C
Min./max. sample depth (m)	20/06	46.62 64° 06.28 30/900		2000 4000 A000	@ 100 M	2000 m	suf.	m 00)	04.84 surf	31 24:00 64 05.24 5.24 15	2000	45,33 64 04.78 2000		
Lon minute (dd.dd)	451	82,90	8.2	14'40	2.49	05.48	04.99	05.5	43.40	533	和印度	04.78		04.364
Lon deg.	ê	ect.	0 6	049	64	of o	49	64	0	E°	0 3	04	° S	640
Lat minute (dd.dd)	8694	46.62	4.90 ° 40 20.34	45.78	45.92 64 64.76	4.21 64 9.	45.22 64° 0499 surt.	05.5 67 05.94	tosh	A.C.	25,4 64 6464 2000	45,33	45.33 823	31 95 897 64 04.364 2000
Lat deg. (N)	॰ ह	े तिल जिल	310	310	310	31 0	31 0	210	0	300	9 0	31	300	3.
End time (GMT)			08 0	0000	1830	(682)	34	10:19	Con 8	10:00 10:30	Siece			
Start time (GMT)	Sorto	2745	3300	0730	1105	(350	1400	81:022121	(630	20:00	71108 21:05	22.4	13:50	2450
Date (GMT)	35 WW 30	Joe 1	2		1	BATS \$//08 (350	=		=	=	20/1/	089 DATS 7/1/08 22:44	Parts 4//08 13:50	SYEO 8011/5 CAKO
Stn	BAS	7 5	=	2	h	BATS	BATS	BAS		4	STAG	DATS	Beth	CAND
Event No.	5	STOP	080	180	082	683	DBY BATS	085 BAS	11 980	285	284 084	180	040	160

Sampling gear: GEOTRACES carousel=GT-C; CLIVAR rosette=CL-R; 30L GOFIo=30-G; Mercury GUFIO=ng-G, UOI 3 EATMINISTER EARMINISTER GEO'S fish=GeoF; Rob's fish=SherF-v1/-v2/-v3; MITESS=MITE; MIT-vane=MITv; UAF-vane=UAFv; Knorr rosette=KnoR

	,	N.													•
Comment - types of studies	all ma operation	BIShop/ Churroffem,		Kenna	Wouth	Anderson (+	Ra Flow Park	tack fill #4	Methre	tenk fill #9		fack fill #5	WEO, Th. Pa	Rubyus Part	4/308 1352 31° 45,202 64° 04.018 2000m GT-C Filken steered Lithehren
Samples taken (diss./ part./ unfilt.)	> all	PART) (=	#153/ Total	idicsolved Chauthe	oussolved partic		fillbrog		41869 64 03 44 200 mGT-C Filtred		L: Hered	dimolved	particulate emby Hu	Filter
Event description Gear/Cast #	muluks-2	MULVES-2 PART		Test of	79	30	45.54 64° 05.74 Swinkle Palade	G7-C	Gom me lone	CAT-C	Mcland Roselt	45.125 64 03.606 2000m GT-C Filhed	KNOR & dimolved	1-5	45,202 64 04.018 2000m GT-C
Min./max. sample depth (m)	30/900	45.55 64.05.24 30/900	30/06	46,2 64 08,5 Surface moore	4 5.200 64° 5.4965 39000	29400	Surf.	44.869 64 03.464 2000m	Com	Zecom		2000m	200		2000m
Lon minute (dd.dd)	640 03.776	05.24	18.47	27.07	5.4965	05,35	NS:74	03.464		03 461		03.606	100		04.018
Lon deg. (W)		049	0	64	64.	, ho	et o	0 49	0	0.45	0	79	0 75	0	649
Lat minute (dd.dd)	45.26		10107 30 TI	7,94	1 5.20g	45.37	hsish	6987h	4587	4489		45.125	45.61 64 04.28		45.202
Lat deg. (N)	310	0 0	0	3	° Z	0 6	20	on	o o	300	0	3(°	° (0	31°
End time (GMT)		38	# 5	da			3030						10:25		103 AAS HYDS 1352
Start time (GMT)	0630	0835	1200	de la	16:15	1756	9	5410			04:00	0820	10:12-10:25		1353
Date (GMT)	744.2 248.2 2 248.2 2 248.2 2 248.2 2 248.2 2 248.2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		6	2 my	J. W.	5aly	=	341080KZ	80K/1 SIAO FPO	2 soft	04:00 806/t	3/15 42/08 0820	BATS 7/3/08	BAB 43/08	103 BATS 7/408 1352
Stn	099 BATS			BATS	BATE	BARS	=	8418	BATS	BARS	STATE	340	BATS	3AB	BATS
Event No.	092	-4	-	643	56	38	980	760	663	860	099	90	101	720]	103

Comment - types of studies		Ples ale)1	K. Mai Hi		tank CM (dupa) #1	tak fill Column 2 # 2	OTO MUC START		to 1 P. 11 (odus) #3	K.mai.ti	I warns mai-tai	GT-C Filters town 2) #4	K. rest.	x-Niskins= Ex-N
Samples taken (diss./ part./ unfilt.)	1500 Pet P				NA		177	PART	ED E	Jan 13	Postuta	Mo R respons	Lilkal	parhicle	CLIVAR rosette=CL-R; 30L GOFIo=30-G; Mercury GOFIo=Hg-G; UoT's Ex-Niskins=Ex-N
Event description Gear/Cast #	Mark to Took	Ra Hank		mclane Rasette	45.32 64 03.90 20M Knok	45326 64° 03.986 2000m GT-C Rithard	44.748 64° 02.568 2000 67-C	44.77 64 03.925 30 AWILLES	STEP RECOVERED	GT-C [1/24	melane Partite		GT-C	1 lee Milana Jest Milana	ercury GOFlo=
Min./max. sample depth (m)	36	Set.	Surt	2000	20M	2000 m	2000	30/90		45.515 64 04.099 2000		4.38 64 04.4 9400	4.411 64 04.710 2000	200	-lo=30-G; M
Lon minute (dd.dd)	45.58 Cy 04.58		3	1	03.90	03.986	02.568	03.92		04.099		440	04.70	25.50	30L GOF
Lon deg. (W)	0 7	0	0	0	0 49	0 19	049	0 39	0	39	0	0 - 0	0 5 9	049	=CL-R
Lat minute (dd.dd)	45.58	5		-	45.32	92534	外土九九	44.77		5/533		44.38	44. 411	44.61 64° 05.56 200	/AR rosette
Lat deg. (N)	50	0	0	0	3(30	30	3,0	0	310	0	20	_	310	CLIN
End time (GMT)		(630	(730		6100							3823.10 1345 31	115 04TS 7/4/08 2250 0120 31	51:10	Sampling gear: GEOTRACES carousel=GT-C;
Start time (GMT)	4.8	(Jan	2	94:31	7/4/8 00:15 0019	0035	0515	05.50	535	0451		23.10	2250	21:10 08:01 80/5/2 STA 9 71:15	CES caro
Date (GMT)	8/4	5	5	-	7/4/08	109 BATS 7/4/08 0035	2			112 DATE 7/4/08 1540	3/1/08	Hilps	80/4/2	2/4/68	GEOTRA
Stn	242	M	3	2	ĭ	BATS	11			DAR	BAB	路	DAIL	BATS	ng gear:
Event No.	hol	501	90)	10	801	109	01)	111	ر	112	50	11 4	115	911	Samplir

				A/c		Ke								
Comment - types of studies	Shuellerp	Mat	Our p banlin	Biship/Char		Particle K. Maiti & Spille	ROD AILTO		heir	Morium	Pasticles	Partial faint		7/5/08 the missinglet o o observed to the Sorte facilis
Samples taken (diss./ part./ unfilt.)	F[kued	LV parkil			art.	Particle	四五		parkil	0455 Parti	naple.	LUNGIH		dissolved Th/Hf
Event description Gear/Cast #	GT-C	Mclane	GT-C Filher	Mulves 4 Fite	MULVES STORT	Nd Cast mclane	GT-C		Mc Land	Knok M Duss	Inclare notice	GT-C WATE	として	Geot
Min./max. sample depth (m)	1001	Down	0007			00000	44.4 64° 09.5 2000		800	20		2000		
Lon minute (dd.dd)	2.2		44500 64° 03509 4000		31 · 44.85 64 · 03.555	4.02 64 0202	2.60			030640 10,30	-	7 64 14.7		
Lon deg.	故意	640	39	0	640	64	et°	0	640	030	0 1	et.	0	0
Lat minute (dd.dd)	44.6 64. 3.2	75.45	92577		433	44-02	मन्ति त		44.4 64 35	43	-	44.3		
Lat deg. (N)	西。	3(310	0	370	300	310	0	0 15	300	° =	310	0	0
End time (GMT)	258	11540												XX BAIS 7/5/08 bloomed wight
Start time (GMT)	117 BATK 7/5/08 7:32 8:32		1515	1925	2/25	03:03	7/6/18 9:25		9:30	19:M	20:54	核	17:00	We hoon and the wind with
Date (GMT)	7/5/08	118 BAR 7/5/8 6:00	119 34TS 71568 1515	120 BATS 7/5/08 1025	5707 2125 5707 2125 500 0345	121 BATS 76/08 03:07	7/6/13	STATE OF THE PARTY	123 BATS 7/6/08 9:30	134 BATS 7/4/08 19:11	25 PAR 74/2 20:54	124 BATS 7/1/08 634	127 Smert 7/9/06 12:00	XX BATS 7/5/08
Stn	BAT	BARS	3475	BATS		BATS	BATS	4	CA TS	SARS	BAR	SE SE	Shert	BARS
Event No.	[]	6	119	120	->	121	122 BATS		12.3	124	138	177	12	X

GEOTRACES carousel=G1-C; CLIVAR rosette=CL-R; 30L GOFIO=30-G; Mercury GOFIO=Hg-G; UOTS 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

Comment - types of studies	hydrocasht	Roberte	Biship			01,676 zu 23,882 632 KnoR Mosohut 818 Jan en Il moss	moland Partialle KMait	Colman Mellein/ Brzezinski	Portrulate K-Mart	my Sherrell	LDEN	STAKT	FINISK.	3/4/08 05:08 11 11 8 4 mcland Particulate K-Maiti GEOTRACES carousel=GT-C; CLIVAR rosette=CL-R; 30L GOFI0=30-G; Mercury GOFI0=Hg-G; UoT's Ex-Niskins=Ex-N
Samples taken (diss./ part./ unfilt.)	diss	Jediulate	MWLVFG FERFER	SIARI		The Chiss. part. Phosohute 5º80	Parkiulete	Wintering New Top Sept.	Portaulite	Partialote Ors Metals ands	Nd Cart	Part		Particulate Hg-G; UoT's E
Event description Gear/Cast #	GT-C	melame,	MWLVE	MALVES	02.002 74 23.875 1000 GT-C	Kno R M	moland	KnoR 6	Mclaure	97-C	Knok is	MUNTS PART	.2	Meland Rosette ercury GOFIO=
Min./max. sample depth (m)	0001	1000		23/400	0001	633	20m	02.161 74 24,022 6 (the max)	80 m		V'00)	Joh 74. 12 23/ 400		€0 6~
Lon minute (dd.dd)	0.866 74 25.025	0 11		2432	23.845	23,882	2	24,022			02,074° 23.87 1000	24.12	24.69	11 30L GOF
Lon deg. (W)	ht.	0 =	0	o the	o dt	ont	0 %	34	0 11	0	。王	分元	140	11 °
Lat minute (dd.dd)	,998.0	-		01.918 740 2432	02.002	01.676	0	02.161	Ç		02,0	61.10	96.00	CLIVAR rosette=CL-R;
Lat deg. (N)	340	0 /	0	370	340	370	0 =	° 7	0	0	ott	300	8	CLIN C
End time (GMT)														Sampling gear: GEOTRACES carousel=GT-C;
Start time (GMT)	0441	1524	22:10	003.75 003.75 03.75	0630	SHEO	4 3	12:30	24.8	17:30	135€ ¥	23.30	08:20)5.0 B
Date (GMT)	80/6/E 34078 8C!	139 STORE 7/4/03 1524	130 slage 7/9/08 22:10	7/9/05	131 SLOPE 7/19/08 0630	132 Slope History OTHS OSIG	Gage 7/10/08 8:17	134 Slope 7/10/8/12:30	35 Klope 7/10/08 15:42	36 Slup 7/408 17:30	3/10/08	7/10/08 20:00	41110 08:37 32:30	Sampling gear: GEOTRACES car
Stn	SLOPE	Slote	SLOPE	->	SLOPE	Slope	300	Slope	Slope	Les	7 Sope	138 Slove	4	Slope
Event No.	80!	28	33	->	131	132	33	134	138	136	1	138	1	Samplin

140 Ships 7/11/89 07:00

308

	25											apolitic control of the control			and the same
Comment - types of studies	Colman - Box Chlorophy II naax for hyde		KMait												CLIVAR rosette=CL-R; 30L GOFlo=30-G; Mercury GOFlo=Hg-G; UoT's Ex-Niskins=Ex-N
Samples taken (diss./ part./ unfilt.)	8,80poy	4	powhete												o= Hg-G ; UoT's
Event description Gear/Cast #	Knok Cust# 17	GT-C	M Claus Test												
Min./max. sample depth (m)	Chi max/		100 m												GEOTRACES carousel=GT-C; CLIVAR rosette=CL-R; 30L GOFlo=30-G; Mercury
Lon minute (dd.dd)	2862	23.406	23.46										0	0	-R; 30L G
Lon deg.			2 to	0	0	0	0	0	0	0	0	0			ette=CL
Lat minute (dd.dd)	01.8	4t 629.00	1.67										0	0	LIVAR rose
Lat deg.	沙。	0	37	0	0	0	0	0	0	0	0	0			
End	52:51														nrousel=G
Start	(GIMIT)	1605	19:30												ACES C
Date (GMT)	Strae 7/1/08 14.55 15:25	CLORE 7/11/08 1605	2/11/08 17:30												Sampling gear: GEOTRACES carousel=GT-C;
Stn	Stroet	CLOPF.	Sep 1												ling dea
Event No.	7		143											and the second	, ame;