

Acropak-200 Cast Sheet

SUPER STATION

Station # 01
 Deep, Mid, Shallow, Deep
 Cast # 1
 Event # 4009
 Date 10/28/13
 ODF Salinity Box E
 ODF Nutrients Rack Blue

Sampling Order

ODF Salinity 250 mL
 ODF Nutrients 30 mL
 Resing - Al 100 mL
 Resing - Mn 100 mL
 Saito, Co no headspace 2 x 60mL
 Sedwick - dFe 2 x 125mL
Shiller moffet (map) Shiller - Ga 125 mL
 Barbeau - Fe sp freeze 900 mL
 Buck - Fe sp freeze 450 mL
 Bruland - metals 500 mL
 Wu - metals 500 mL
 Wu - colloids 500 mL
~~Moffett - Zn shallow 250 mL~~
~~Flegal - Pb shallow 1000 mL~~
 Boyle - Pb mid/deep 2000 mL
~~John - isos shallow 4000 mL~~
 John - isos mid/deep 1000 mL

**Correct order on Back page*

Geotraces 2000

Acropak: A
 Sampler: CZ
 Depth: 5500
 Caro Pos: 1
 Notes:

Geotraces 2002

Acropak: A
 Sampler: CZ
 Depth: 5450
 Caro Pos: 3
 Notes:

Geotraces 2004

Acropak: A
 Sampler: CZ
 Depth: 5400
 Caro Pos: 5
 Notes:

Geotraces 2006

Acropak: A
 Sampler: _____
 Depth: 5325
 Caro Pos: 7
 Notes:

Geotraces 2008

Acropak: A
 Sampler: _____
 Depth: 5150
 Caro Pos: 9
 Notes:

Geotraces 2010

Acropak: A
 Sampler: _____
 Depth: 5050
 Caro Pos: 11
 Notes:

Geotraces 2012

Acropak: B
 Sampler: CP
 Depth: 4800
 Caro Pos: 13
 Notes:

Geotraces 2014

Acropak: B
 Sampler: CP
 Depth: 4600
 Caro Pos: 15
 Notes:

Geotraces 2016

Acropak: B
 Sampler: CP
 Depth: 4400
 Caro Pos: 17
 Notes:

Geotraces 2018

Acropak: B
 Sampler: CP
 Depth: 4000
 Caro Pos: 19
 Notes:

Geotraces 2020

Acropak: B
 Sampler: CP
 Depth: 3600
 Caro Pos: 21
 Notes:

Geotraces 2069

Acropak: B
 Sampler: CP
 Depth: 3200
 Caro Pos: 23
 Notes:

Sticker	Sticker	Sticker
Acropak	Acropak	Acropak
Sampler	Sampler	Sampler
Depth	Depth	Depth
Care Post	Care Post	Care Post
Notes	Notes	Notes

Sta. 1 cast 1
Event 4009

Sampling Order

Salinity
Nutrients

Acropak-300 Cast Sheet
SUPER STATION
Station #
Deep, Mid, Shallow
Cast #
Event #
Date
ODF Salinity Box
ODF Nutrients Rack

Sticker	Sticker	Sticker
Acropak	Acropak	Acropak
Sampler	Sampler	Sampler
Depth	Depth	Depth
Care Post	Care Post	Care Post
Notes	Notes	Notes

Resing - Al

Resing - Mn

Saito - Co

Shiller - Ga

Moffett - Fe(II)

Sedwick - d Fe

Barbeau - Fe sp.

Buck - Fe sp.

Bruland - metals

Wu - metals & colloids

Boyle - Pb/C

John - isotopes

Sampling Order
ODF Salinity
ODF Nutrients
Resing - Al
Resing - Mn
Saito - Co
Sedwick - d Fe
Shiller - Ga
Barbeau - Fe sp.
Buck - Fe sp.
Bruland - metals
Wu - metals
Wu - colloids
Moffett - Fe(II)
Boyle - Pb/C
John - isotopes

Direct order
on back page

Geotraces R/V Thompson Membrane Sample Log

Sample Date: 10/28/13
 UTC Start: 1852
 UTC End: 0035

Station/Cast: S71 - Cast 1
 GT Event #: 4009

Shallow/Mid/Deep
 (circle one)

Nuts Rack: Blue
 Salts Rack: F

Samplers: LR/SR

Notes:

Geotraces #:	Geotraces 2070	Geotraces 2068	Geotraces 2019	Geotraces 2017	Geotraces 2015	Geotraces 2013	Geotraces 2011	Geotraces 2009	Geotraces 2007	Geotraces 2005	Geotraces 2003	Geotraces 2001
GoFlo Number:	36	30	28	26	24	18	16	10	8	6	4	2
Depth (m):	3200	3600	4000	4400	4600	4800	5050	5150	5325	5400	5450	5500
Filter Holder #:	12	11	10	9	8	7	6	5	4	3	2	1
Filter diameter (mm):	25											

Filtered Volume (L)	24	22	20	18	16	14	12	10	8	6	4	2
Waste:	6.740	6.810	6.860	6.990	6.180	6.580	6.700	6.600	6.190	6.600	6.200	6.440
Drawn:	3.915	3.915	3.915	3.915	3.915	3.915	3.915	3.915	3.915	3.915	3.915	3.915
Total:	10.655	10.725	10.775	10.905	10.095	10.495	10.615	10.515	10.105	10.515	10.115	10.355
Start Time:	3:14	3:11	3:05	3:00	3:00	3:01	3:00	3:00	2:47	3:05	2:47	2:42
End Time:	5:19	5:19	5:29	5:29	5:07	5:27	5:19	5:19	5:19	5:29	5:00	5:05

Supor Membrane 0.45 μm

Notes: Filtered $V_T = 3.915$ L (filled Se only) 1 L mark

On FH# 10 - used Silicone tubing
 * needs to be replaced by C-Flex

* nano nuts only collected @ 2001
 2003
 ← not analyzed

- Sampling Order:
- Redox:
 - Pressurize
 - Cutter (S) 2 x 60mL (Syr.)
 - Cutter (I) 2 x 60mL (Syr.)
 - Moffett (Fe) 2 x 60mL (Syr.)
 - Unfiltered: moffett (Mops) 2 x 30mL
 - ODF Nuts 1 x 30mL
 - ODF Salts 1 x 250mL
 - Shake
 - Twining-Surface 1 x 2000mL
 - Twining-DCM 1 x 250mL
 - Part. Membrane:
 - Hammerschmidt (Hg) 1 x 2000mL
 - Lamborg (T. Hg) 1 x 250mL
 - Cutter (Nnuts) 1 x 125mL
 - Cutter (As/Sb) 1 x 250mL
 - Cutter (Se) 1 x 1190mL

GEOTRACES R/V Thompson GT-C Sample Log (Super Station)

Station/Cast:			GT Event No.:				Sampling Date:				UTC Start:		UTC End:	
Station 1 Cast 1			4009				10/28/13				1852		00:35	
Shallow/Middle/Deep (circle one)			Geotraces 2070	Geotraces 2068	Geotraces 2019	Geotraces 2017	Geotraces 2015	Geotraces 2013	Geotraces 2011	Geotraces 2009	Geotraces 2007	Geotraces 2005	Geotraces 2003	Geotraces 2001
ODF Nuts Rack:	Blue													
ODF Salt Box:	E													
GEOTRACES No														
Carousel Trip Pos			24	22	20	18	16	14	12	10	6	4	2	
Depth (m)			3200	3600	4000	4480	4600	4800	5050	5150	5325	5400	5450	5500
Membrane (0.45uM Supor) No.			12	11	10	9	8	7	6	5	4	3	2	1
Go-Flo No.			36	30	28	26	24	18	16	10	8	6	4	2
Syringe Redox	#	Vol (ml)												
Pressurize														
Cutter (S)	2	50	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cutter (I)	2	50	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Moffett (Fe MOPS)	2	30	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Moffett (Fe)	2	50	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Shake														
Unfiltered														
ODF Nuts	1	30	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ODF Sal	1	250	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Reaming (AI)	1	125												
Twining surface	1	2000												
Twining DCM	1	250												
Part Membrane														
Cutter (nnuts)	1	125	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cutter (As)	1	250	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Hammerschmidt	1	250	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Hammerschmidt	1	2000	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cutter (Se)	1	1000	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

IR/SR/RS

Filtered Volume (L) Waste
 Drawn
 Total
 Filter start time
 Filter end time

	24	22	20	18	16	14	12	10	6	4	2	
Filtered Volume (L) Waste	6740	6810	6860	6600	6990	6150	6550	6700	6600	6190	6200	6440
Drawn	3915	3915	3915	3915	3915	3915	3915	3915	3915	3915	3915	3915
Total	10.655	10.725	10.775	10.515	10.905	10.095	10.495	10.115	10.535	10.105	10.115	10.355
Filter start time	3:14	3:11	3:09	3:05	3:00	3:01	3:00	3:00	2:58	2:51	2:47	2:42
Filter end time	5:19	5:19	5:30	5:29	5:19	5:07	5:27	5:19	5:25	5:19	5:00	5:05

3915

white
 silicone
 tube
 *Needs
 to be replaced

(4)