

Calibration cruise
BKT FLOOD

10/6/12

ON BOARD R/V Eris Olsson

CAPT Wayne Reiser crew
Grace Conwright, Kelsey Fall
& Jamell Smith.

Harder cruise of PICS camera!
S/N 2

BKT to turn p.c. is
not aligned properly so will
be deployed in a vertical
position - will lift profile
off bottom to collect sponges
as setting of Back Down.

Raise LIST or Profiles &
Adjust Hanger Bracket

Stations - 5038 - 5077

Profiler Deployment Setup

Date _____

- Location** Gloucester Pt
 Claybank
 other _____
- Profiler** R.O.S.E.
 lil ROSE

ADV (SONTEK)

cmab 55 cmab

- Sensor** B336 (V20358) & G494 (V20364)
 B337 (V20359) & G447 (V20365)
 B338 (V20360) & G446 (V20366)

Calibration date _____ filename _____

Compass Calibration Horizontal Calibration score (0-9) _____
Vertical Calibration score (0-9) _____
Ambient Mag Field Strength (4.5) _____
Results: (pass/fail) _____

CTD (YSI 6600)

cmab 38 cmab

- Sensor** 03H1988 (V17937)
 03K0492 (V??008)
 07B1391 (V20490)

New one

Calibration date _____

- conductivity
 pressure
 turbidity

lifted LISST up to 52 cmab

LISST 100X (Sequoia)

- Sensor** 1075 (V14726)
 1185 (V18917)
 1232 (V20536)
 1239 (V20609)

cmab 38 cmab

- OBS** 1675 (V16608)
 1812 (V16965)
 11315 (V20774)

cmab 36 cmab

Calibration date 10/5/12 zscat name ZSC121005_1239

PUMP INTAKE

*low 29 cmab
high 36 cmab*

cmab _____

ADCP (RDI 1200 kHz)

- Sensor** 602 (V)

cmab _____

PICS 3/2 64 cmab

BKKT FLOOD

Cruise YR121006

Date 10/6/12

121006

Station	start time	latitude	longitude	total depth	ADCP filename	CTD	LISST	ADV	TSS sample	Sample Depth	sample time	End Time	POCS Commer
S5038	0818	20.530	37.540	5.87	000	✓	✓	✓	—	—	—	—	081854
S5038	0818	20.530	37.540	5.87	000	✓	✓	✓	—	—	—	—	081958
S5038	0818	20.530	37.540	5.87	000	✓	✓	✓	—	—	—	—	082032
S5039	838	20.530	37.540	5.92	000	✓	✓	✓	—	—	—	—	Profile
S5040	841	20.530	37.540	5.88	001	✓	✓	✓	B5039H1	5.81	084141	—	084141
S5040	841	20.530	37.540	5.88	001	✓	✓	✓	B5039H1	5.81	084141	—	084222
S5040	841	20.530	37.540	5.88	001	✓	✓	✓	B5039H1	5.81	084141	—	084254
S5040	841	20.530	37.540	5.88	001	✓	✓	✓	B5039H1	5.81	084141	—	084356
S5040	841	20.530	37.540	5.88	001	✓	✓	✓	B5039H1	5.81	084141	—	ON another stack MAILED?
S5041	0853	20.531	37.543	5.85	002	✓	✓	✓	B5041H2	5.80	0853	—	
S5041	0853	20.532	37.544	5.85	002	✓	✓	✓	B5041H2	5.80	0853	—	
S5041	0853	20.532	37.544	5.85	002	✓	✓	✓	B5041H3	4.35	0853	—	
S5041	0853	20.532	37.544	5.85	002	✓	✓	✓	B5041H4	2.85	0900	—	
S5041	0853	20.532	37.544	5.85	002	✓	✓	✓	B5041H5	1.87	090301	—	
S5041	0853	20.532	37.544	5.85	002	✓	✓	✓	B5041H6	0.83	090513	—	
S5042	0909	20.532	37.540		003	✓	✓	✓	—	—	—	—	Profile
S5043	0910	20.537	37.5408	5.97	004	✓	—	✓	B5043H1	5.85	0910	—	Bottom ①
S5043	0910	20.537	37.5408	5.97	004	✓	—	✓	B5043H2	5.85	0913	—	
S5044	0917	20.537	37.5418	5.97	005	✓	✓	✓	B5044H1	5.83	091715	—	Bottom ②
S5044	0917	20.537	37.5418	5.97	005	✓	✓	✓	B5044H2	5.84	091955	—	

COMMENTS

Cruise _____

Date _____

P2 ②

121006

Station	start time	latitude	longitude	total depth	ADCP filename	CTD	LISST	ADV	TSS sample	Sample Depth	sample time	End Time	Commer
SS045	0927	20.5303	37.5388	6.02	006	✓	✓	✓	B5045H1	5.83	092810		★
↓	↓	↓	↓	↓	↓	↓	↓	↓	B5045H2	5.85	093214		TOO FAR 3.0
S								↓	B5045L1	5.85	093346		
SS046	0939	20.5309	37.5406	6.02	007	✓	✓	✓	B5046H1	5.81	093838		Turned off back
↓	↓	↓	↓	↓	↓	↓	↓	↓	H2	—	—		on before lifting off bot
↓	↓	↓	↓	↓	↓	↓	↓	↓	L1	—	—		★
SS047	0952	20.5328	37.5443	6.02	008	✓	✓	✓	B5047H1	5.89	100110	★	Profile ③
↓	↓	↓	↓	↓	↓	↓	↓	↓	H2	4.70	100630		1 m interval of 10m down
↓	↓	↓	↓	↓	↓	↓	↓	↓	H3	3.48	100856		★ moved back 50m in.
↓	↓	↓	↓	↓	↓	↓	↓	↓	H4	2.80	11152		
↓	↓	↓	↓	↓	↓	↓	↓	↓	H5	1.03	101500		
SS048	Bottom	GNAB			1016								
SS049	1031	20.5326	37.5045	6.19	009	✓	✓	✓	TO Bottom				Downcast
SS050	1035	20.5337	37.5479	6.10	010	✓	✓	✓	B5050H1	5.93	1035?		Bot
↓	↓	↓	↓	↓	↓	↓	↓	↓	H2	5.94	103640		
↓	↓	↓	↓	↓	↓	↓	↓	↓	L1	5.94	103734		
SS051	1042	20.5333	37.5574	6.11	011	✓	✓	✓	5051H1	5.94	104210		Bot
↓	↓	↓	↓	↓	↓	↓	↓	↓	H2	5.94	104304		
↓	↓	↓	↓	↓	↓	↓	↓	↓	L1	5.94	104356		

COMMENTS

★ starting five + meter off the bottom

★ Close PICS value when start to drop profile ~~part~~★² Set sample rate to 8 because last CTD connectivity was
reset. In settings set recording set limit to 240
30 sec @ 8 f/s

Cruise _____

Date _____

3

Station	start time	latitude	longitude	total depth	ADCP filename	CTD	LISST	ADV	TSS sample	Sample Depth	sample time	End Time	Commer
5052	1045	20.5332	37.5305	6.07	012	✓	✓	✓	5052 H1	104610	5.96		Bot
↓	↓	↓	↓	↓	↓	↓	↓	↓	H2	104658	5.97		
↓	↓	↓	↓	↓	↓	↓	↓	↓	L1	104802	5.97		
5053	1051	20.5334	37.5511	6.15	013	✓	✓	✓	5053 H1	105116	5.95		up/cast
↓	↓	↓	↓	↓	↓	↓	↓	↓	H2	105328	4.30		↓
↓	↓	↓	↓	↓	↓	↓	↓	↓	H3	105600	3.37		↓
↓	↓	↓	↓	↓	↓	↓	↓	↓	H4	105916	2.51		↓
↓	↓	↓	↓	↓	↓	↓	↓	↓	H5	110148	1.27		↓
5054	1106	20.5342	37.5493	6.27	014	✓	✓	✓	—————				Downcast
5055	1108	20.5336	37.5492	6.22	015	✓	✓	✓	5055 H1	110750	6.00		Bot
↓	↓	↓	↓	↓	↓	↓	↓	↓	H2	110910	6.01		
↓	↓	↓	↓	↓	↓	↓	↓	↓	L1	110934	6.00		
5056	1115??	20.5333	37.5337	6.22	016	✓	✓	✓	5056 H1	111905	5.95		* files not connected
↓	↓	↓	↓	↓	↓	↓	↓	↓	H2	111842	5.95		
↓	↓	↓	↓	↓	↓	↓	↓	↓	L1	112030	5.95		
5057	1125	20.5338	37.5518	6.28	017	✓	✓	✓	5057 H1	112600	6.03		
	"								H2	112730	6.03		
									L1	112915	6.03		

COMMENTS

Software when network quality was low took a frame every
 - 5 min! check frame NOTE

Cruise _____

Date _____

④

Station	start time	latitude	longitude	total depth	ADCP filename	CTD	LISST	ADV	TSS sample	Sample Depth	sample time	End Time	Commer
5058	1133	20.5343	37.5500	6.30	018	✓	✓	✓	5058 H1	6.07	113530		BOT
↓	↓	↓	↓	↓	↓	↓	↓	↓	H2	6.08	113626		
↓	↓	↓	↓	↓	↓	↓	↓	↓	L	6.08	113742		
5059	1144	20.5345	37.550	6.30	019	✓	✓	✓					Downcast
5060	1146	20.5342	37.5501	6.34	020	✓	✓	✓	5060 H1	6.07	114729		Upcast
↓	↓	↓	↓	↓	↓	↓	↓	↓	H2	4.81	115033		
↓	↓	↓	↓	↓	↓	↓	↓	↓	H3	3.73	115311		
↓	↓	↓	↓	↓	↓	↓	↓	↓	H4	2.56	115633		
↓	↓	↓	↓	↓	↓	↓	↓	↓	H5	1.38	115748		
5061	1206	20.5345	37.5501	6.35	021	✓	✓	✓	5061 H1	6.14	120628		BOT
↓	↓	↓	↓	↓	↓	↓	↓	↓	H2	6.14	120720		
↓	↓	↓	↓	↓	↓	↓	↓	↓	L1	6.14	120832		
5062	1214	20.5341	37.5506	6.40	022	✗	✓	✓	5062 H1				
						↑ CTD			NO DATA				
5063	1216	20.5344	37.5491	6.42	023	✓	✓	✓	5063 H1	6.19	121722		BOT**
↓	↓	↓	↓	↓	↓	↓	↓	↓	H2	6.19	121814		
↓	↓	↓	↓	↓	↓	↓	↓	↓	L1	6.21	121922		
5064	1226	20.5344	37.5490	6.39	24	✓	✓	✓	5064 H1	6.16	122723		BOT
↓	↓	↓	↓	↓	↓	↓	↓	↓	H2	6.16	122857		
↓	↓	↓	↓	↓	↓	↓	↓	↓	H1	6.18	122943	Boundary 12.43 27.98	

COMMENTS

** standing, 2m above bottom + closing valve
 as wayne starts to ~~drop~~ further. - trying
 to avoid closing valve ^(Lamin) when bottom of PICS is
 mud

Cruise _____

Date _____

⑤

Station	start time	latitude	longitude	total depth	ADCP filename	CTD	LISST	ADV	TSS sample	Sample Depth	sample time	End Time	Commer
5065	1238	20.5348	37.5509	6.40	025	✓	✓	✓	35005H1	6.17	123840		BOT
									H2	6.24	123923	Bottom	23.55
									L1	6.29	??		
5066	1249	20.5345	37.5466	6.42	26	✓	✓	✓	5066 H1	6.22	125020		Pushed
									H2	4.93	125313	pic	Started
									H3	4.16	125818		
									H4	2.90	130142		on both
									H5	1.43	130458		
5067	1310	20.533	37.5437	6.47	27	-	✓	-					Downcast
5068	1311	20.5335	37.5464	6.44	28	✓	✓	✓	5068 H1	6.28	131231		BOT
									H2	6.28	131315	Bottom	28.92
									L1	6.28	131437		
5069	1320	20.5335	37.5441	6.51	29	✓	✓	✓	5069 H1	6.27	132343		BOT
									H2	6.27	132420	Bottom	31.62
									L1	6.28	132527		
5070	1336	20.5309	37.5407	6.50	30	✓	✓	✓	5070 H1	6.23	133700		BOT 35.48
									L1	6.23	133742	Bottom	17.13

COMMENTS

* Being possible up + down to flush out. Before sitting on bottom

Cruise _____

Date _____ (6)

Station	start time	latitude	longitude	total depth	ADCP filename	CTD	LISST	ADV	TSS sample	Sample Depth	sample time	End Time	Commer
5071	1345	20.5315	37.5405	6.50	031	✓	✓	✓	5071 H1	6.31	134728		UPCAST
									H2	5.57	135244		↑ Bump up + down to clear
									H3	4.41	135532		
									H4	3.23	135852		
									H5	1.68	140208		
									H6	0.94	140530		
5072	1405	20.5278	37.5375	6.40	032	✓	✓	✓	—	—	—		DOWNCAST
5073	1413	20.5291	37.5390	6.48	033	✓	✓	✓	5073 H1	6.27	141349		Bump up } 26.10 (5.5)
									L1	6.27	141441		10.55
5074	1421	20.5262	37.5369	6.47	034	✓	✓	✓	5074 H1	6.28	142247		Bump up } (5.5)
									L1	6.28	142357		
5075	1433	20.532	37.5410	6.50	035	✓	✓	✓	5075 H1	6.32	143420		Bump up } 22.31 (5.5)
									L1	6.33	143516		6.77
5076	1440	20.5239	37.5360	6.46	036				5076 H1	0.99	144720		DOWNCAST
	1446	20.5239	37.5360	6.46	036	✓	✓	✓	H2	2.18	144943		
									H3	3.35	145319		
									H4	4.58	145639		
									H5	5.96	145911		
													Bump up } 61.49
5077	1450	20.5239	37.5360	6.46	036								45.95

COMMENTS _____

York River, VA Ches. Bay

06 Oct 12

@ VIMS Clay Bank station

on R/V Olsen

W. Reischer, Kekey _____, G. Cartwright,
Jarrell Smith

PICS S/N 02

CAST 0817 ET (standard time)

081854 Frame on
on bottom Laser: 50%

081958 dup 5038

082032 dup

084141 on bottom - bottle samp

084222

084254

084356

084428

084459

084529

084559

084632

084703

084734

084846

084919

To analyze diff
w/ time

5040

06 Oct 2012

VIMS Clay Bank

Depth File
4.36 m — two files w/ bad flow

085924

090009

2.85

090136

5041

~~1.87~~

1.87

090420

0.83

090640

090719

BOT

0908

5043

091218

091307

BOT

091835

5044

091917

091949

BOT

5045

— (too turbid?) laser pwr
@ 75%

BOT

093955

— closed valve @ bot

5046

094038

094108

VIMS Clay Bank

06 Oct 2012

CAME@BAPS

PROFILE

Depth

Time

5047

~~100208~~ BOT~~100208~~

5.90

100253

4.7

100246

3.5

100828

101028

101058

2.8

101323

101357

1.03

101615

101710

BOT

5050

103616

103647

103732

5051 - too high conc

BOT

5052

104724

104754

104825

06 Oct 2012
- Profile -

VIMS Clay Bank

BOT -

105232 too turbid to see
105313 on comp screen

4.3 m

105452
105522 ~~5054~~
5053

3.4 m

105828
105859

2.5 m

110046
110117

1.3 m

110300
110408

BOT

110856
110947

5055

BOT

111909
111947

PLCS
Think the pipe
was plugged.
Data questionable

BOT

112711
112742

BOT

113608
113640

VIMS Clay Bank PLCS data

06 Oct 2012

- Profile -

Bot: 6.1 m

114832

114902

5060

4.8 m

115117

115148

3.7 m

115441

115518

2.56 m

115

115854

1.4 m

120107

120152

- BOT -

120719
120753

5061

- BOT -

121825
121856

5063

- BOT -

122817
122902

5064

- BOT -

123914

123945 + 124016 + 124558*

5065

06 Oct 2012 NIMS Clay Bank
PKS

- PROFILE -

- BOT -	125050	5066
6.2 m	125121	
		↓
5 m	- scratch -	Camera/Str. Pix ISSUES
4.16 m	125919	
	125953	
2.90	130234	
	130304	
1.0 m	130547	
	130618	
- BOT -	131311	5068
	131343	
- BOT -	132428	5069
	132504	
	132918*	
- BOT -	133656	5070
	133729	

VIMS Clay Bank
PKS 06 Oct 2012

- PROFILE -

- BOT -	134813	5071
6.3 m	134847	
5.57 m	135332	
	135407	
4.41 m	135624	
	135656	
3.23 m	135952	
	140028	
1.68 m	140257	
	140331	
0.94 m	140600	
	140631	
- BOT -	141411	5073
	141445	
- BOT -	142319	5074
	142350	
- BOT -	143452	
	143526	

VLMS - Clay Bank

06 Oct 2012 PKS Data

- PROFILE -

1.0 m

144731

5076

144808

2.2 m

145040

14

3.35 m

145401

145432

4.58 m

145646

145718

5.96 m

145957

150029