

AR-15 Cruise Report - Appendix

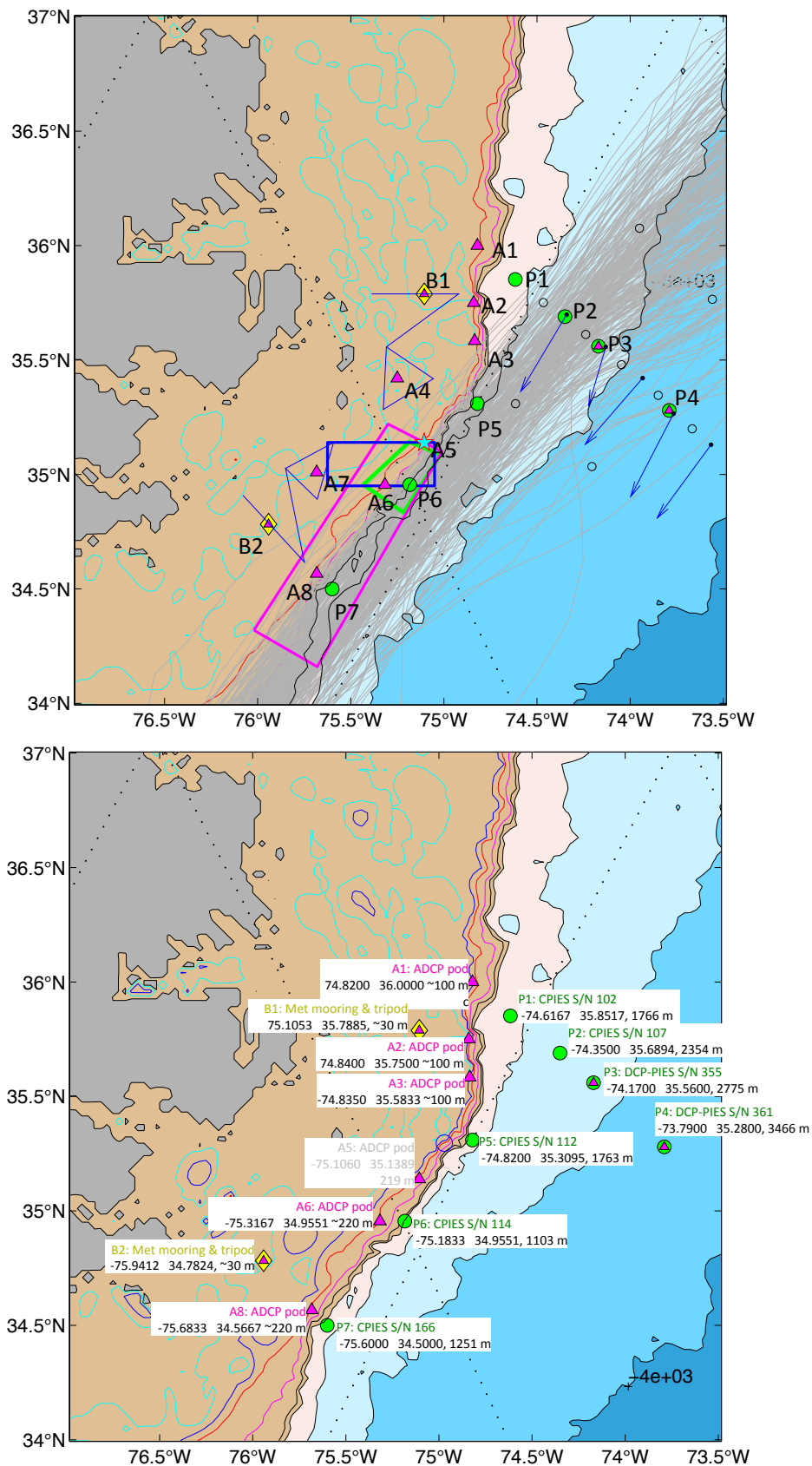
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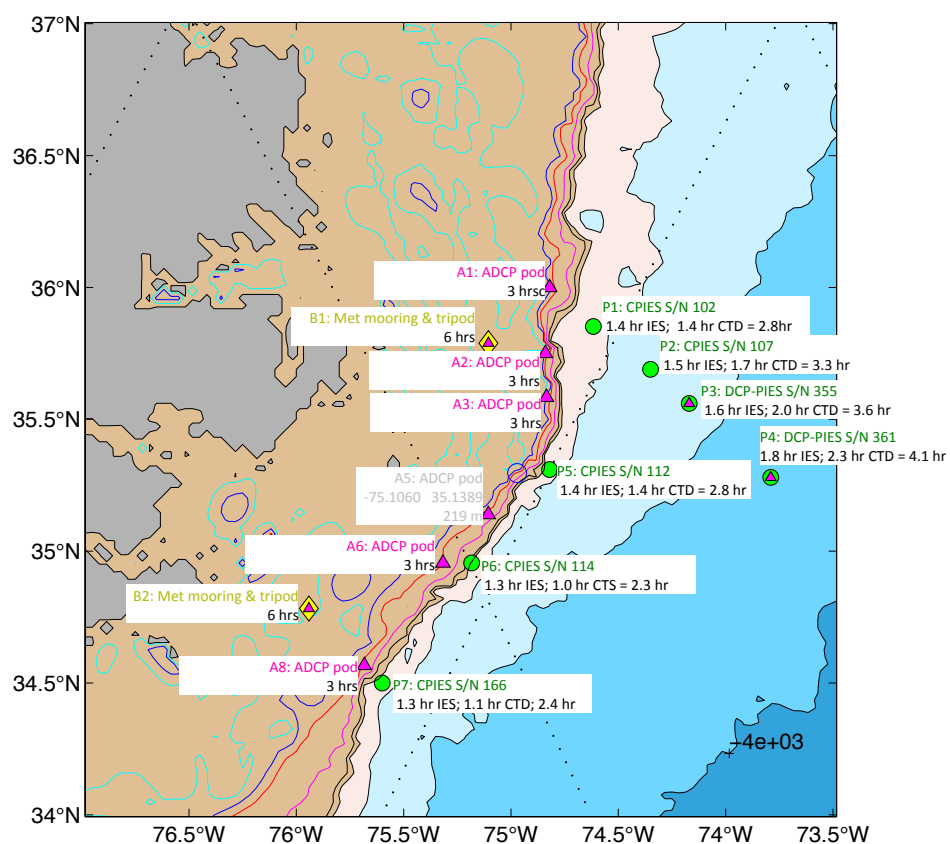
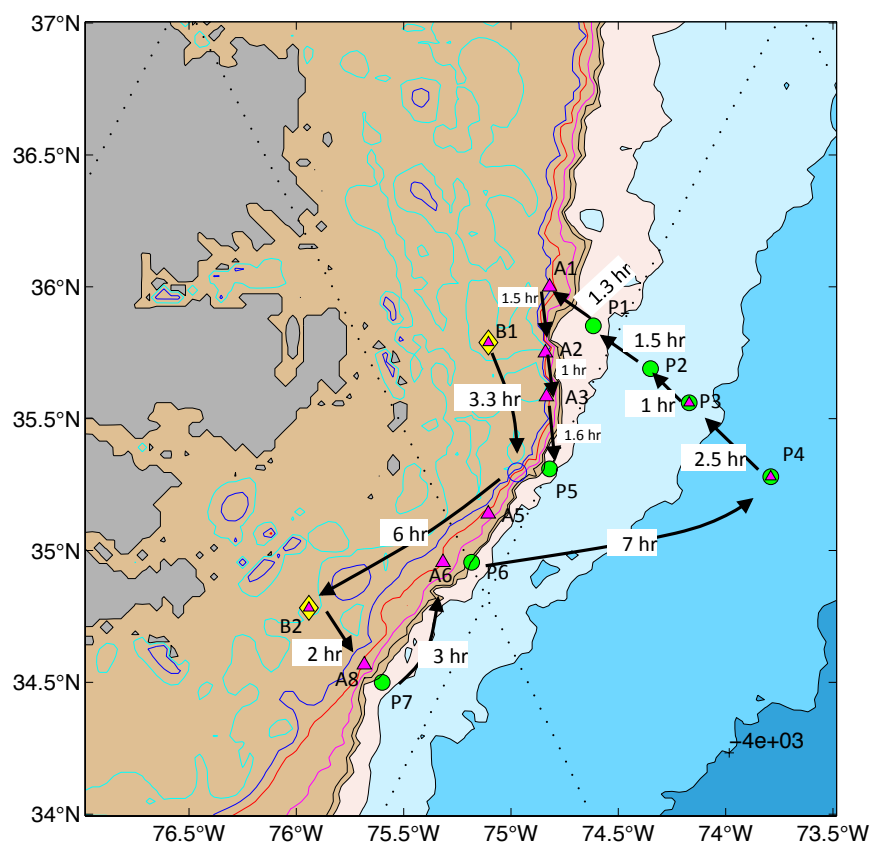
12.1 Mat files referenced in the data report	A-3
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12.1 Mat files referenced in Cruise Report

AR15_cruise_track.mat
Cburst_from_P1_yo_yo.dat
DCPS-Config2Column-Hatteras.xlsx
IES_target_locs.mat
P03_burst.dat
P4_361_burst.dat
p5_112_burst.dat
P6_114_burst.dat
PEACH_sites_actual.xlsx and .mat
PEACH_IES_deployments.xlsx
salinity_bottles.xls
SB_XBTs.xls and .mat

12.2 Deployment planning Documents





12.3 Event log

Event log (/Volumes/Transcend/ar15/r2r/eventlog/proc/ R2R_ELOG_ar15_FINAL_EVENTLOG_20170429_101302.csv)

Image ID	Date	Event	Instrument	Action	Transect	Station	Cast	Latitude	Longitude	Seafloor	Author	Comment	Cruise	R2R_Event	dateTimeUTC	Time	dateTimeMSg	Revisions	
1	Sat 15 Apr 2	20170415.15Ship		startCruise	NaN	NaN	NaN	41.34355	-70.90357		anOther	late entry - e ar15	ar15-SE-2017	20170415.2	4/15/17 15:08	15:08:43:0000			
2	Sat 15 Apr 2	20170415.15Knuden	326start		NaN	NaN	NaN	41.329183	-70.90424		anOther	late entry kn - ar15	ar15-SE-2017	20170415.2	4/15/17 15:13	2017-04-15T15:13:45:0000			
3	Sat 15 Apr 2	20170415.15UH0AS	start		NaN	NaN	NaN	41.27944	-70.902883		anOther	late entry UH - ar15	ar15-SE-2017	20170415.2	4/15/17 15:33	2017-04-15T15:33:44:0000			
4	Sat 15 Apr 2	20170415.23MK21	XBT	laistart	NaN	X01	NaN	40.041833	-70.684325		mAdress1		ar15-SE-2017	20170415.2	4/15/17 23:04	2017-04-15T23:04:24:0000			
5	Sun 16 Apr 2	20170416.03MK21	XBT	laistart	NaN	X02	NaN	40.036245	-71.198266		rDd01		ar15-SE-2017	20170416	4/16/17 1:19	2017-04-16T01:19:04:0000			
6	Sun 16 Apr 2	20170416.03MK21	XBT	laistart	NaN	X03	NaN	39.90201	-71.612887		rDd01		ar15-SE-2017	20170416	4/16/17 1:32	2017-04-16T01:32:29:0000			
7	Sun 16 Apr 2	20170416.06MK21	XBT	laistart	NaN	X04	NaN	39.485669	-72.124522		gSawkerhewic1		ar15-SE-2017	20170416.1	4/16/17 6:26	2017-04-16T06:26:27:25 20			
8	Sun 16 Apr 2	20170416.09MK21	XBT	laistart	NaN	X05	NaN	39.140955	-72.612112		gSawkerhewic1		ar15-SE-2017	20170416.1	4/16/17 9:35	2017-04-16T09:35:16:15 43:30 20			
9	Sun 16 Apr 2	20170416.12MK21	XBT	laistart	NaN	X06	NaN	38.710793	-73.080429		180_Shaines1		ar15-SE-2017	20170416.2	4/16/17 12:52	2017-04-16T12:52:49:0000			
10	Sun 16 Apr 2	20170416.15MK21	XBT	laistart	NaN	X07	NaN	38.398327	-73.51033		180_Shaines1		ar15-SE-2017	20170416.2	4/16/17 15:42	2017-04-16T15:42:49:0000			
11	Sun 16 Apr 2	20170416.17Glider		deploy	NaN	NaN	NaN	38.368189	-73.499009		rDd01		ar15-SE-2017	20170416.2	4/16/17 17:25	2017-04-16T17:25:30 20			
12	Sun 16 Apr 2	20170416.17CTD911		deploy	NaN	NaN	NaN	38.389484	-73.451558		180_Shaines1	CTD School	ar15	ar15-SE-2017	20170416.2	4/16/17 19:00	2017-04-16T19:00:48:0000		
13	Sun 16 Apr 2	20170416.23MK21	XBT	laistart	NaN	X08	NaN	37.867079	-74.026873		mAdress1		ar15-SE-2017	20170416.2	4/16/17 23:33	2017-04-16T23:33:43:0000			
14	Mon 17 Apr 2	20170417.03MK21	XBT	laistart	NaN	X09	NaN	37.367079	-74.463617		180_Shaines1		ar15-SE-2017	20170417	4/17/17 3:13	2017-04-17T03:13:09:0000			
15	Mon 17 Apr 2	20170417.09MK21	XBT	laistart	NaN	X11	NaN	36.428881	-74.771174		lBall1		ar15-SE-2017	20170417.1	4/17/17 9:02	2017-04-17T09:02:51:0000			
16	Mon 17 Apr 2	20170417.12MK21	XBT	laistart	NaN	X12	NaN	35.897415	-74.826201		Tty0y1		ar15-SE-2017	20170417.1	4/17/17 12:11	2017-04-17T12:11:09:0000			
17	Mon 17 Apr 2	20170417.14PIES		deploy	NaN	P1	NaN	35.849907	-74.617659	-1800	Shaines1	off station -- ar15	ar15-SE-2017	20170417.1	4/17/17 14:09	2017-04-17T14:09:17:18 26:14 21			
18	Mon 17 Apr 2	20170417.14CTD911		deploy	NaN	P1	NaN	35.849965	-74.617655		180_Shaines1		ar15-SE-2017	20170417.1	4/17/17 14:37	2017-04-17T14:37:02:0000			
19	Mon 17 Apr 2	20170417.18PIES		deploy	NaN	P2	NaN	35.68828	-74.35002		mAdress1	double ring c ar15	ar15-SE-2017	20170417.2	4/17/17 18:17	2017-04-17T18:17:57:0000			
20	Mon 17 Apr 2	20170417.18ARGO		deploy	NaN	P02	NaN	35.68841	-74.346047		rDd01	Argo float 73 ar15	ar15-SE-2017	20170417.2	4/17/17 18:54	2017-04-17T18:54:02:0000			
21	Mon 17 Apr 2	20170417.18CTD911		deploy	NaN	P02	NaN	35.695392	-74.337015		mAdress1	calibration C ar15	ar15-SE-2017	20170417.2	4/17/17 18:54	2017-04-17T18:54:02:0000			
22	Mon 17 Apr 2	20170417.23ARGO		deploy	NaN	P03	NaN	35.56045	-74.16901		rDd01	Argo float 74 ar15	ar15-SE-2017	20170417.2	4/17/17 23:25	2017-04-17T23:25:41:0000			
23	Mon 17 Apr 2	20170417.23PIES		deploy	NaN	P3	NaN	35.560515	-74.166731		mAdress1	P3 with DCP ar15	ar15-SE-2017	20170417.2	4/17/17 23:25	2017-04-17T23:25:41:0000			
24	Mon 17 Apr 2	20170417.23CTD911		deploy	NaN	P3	NaN	35.560178	-74.8330137	2735	Shaines1		ar15-SE-2017	20170417.2	4/17/17 23:25	2017-04-17T23:25:41:0000			
25	Mon 17 Apr 2	20170417.23CTD911		end	NaN	P4 to A1	NaN	36.001078	-74.833006		mAdress1	SADCP sectio ar15	ar15-SE-2017	20170418.1	4/18/17 11:10	2017-04-18T11:10:16:0000			
26	Tue 18 Apr 2	20170418.11Other		deploy	NaN	A1	NaN	36.001611	-74.833006		mAdress1	WHOI - ADCP ar15	ar15-SE-2017	20170418.1	4/18/17 11:10	2017-04-18T11:10:16:0000			
27	Tue 18 Apr 2	20170418.13Mooring		deploy	NaN	A1	NaN	36.013451	-74.827787		gSawkerhewic1		ar15-SE-2017	20170418.1	4/18/17 13:29	2017-04-18T13:29:32:0000			
28	Tue 18 Apr 2	20170418.14CTD911		deploy	NaN	A2	NaN	36.013451	-74.827787		gSawkerhewic1		ar15-SE-2017	20170418.1	4/18/17 14:14	2017-04-18T14:14:40:0000			
29	Tue 18 Apr 2	20170418.16Mooring		deploy	NaN	A2	NaN	35.75146	-74.862323		gSawkerhewic1		ar15-SE-2017	20170418.2	4/18/17 16:32	2017-04-18T16:32:31:0000			
30	Tue 18 Apr 2	20170418.16Mooring		deploy	NaN	A2	NaN	35.75112	-74.862599		gSawkerhewic1		ar15-SE-2017	20170418.2	4/18/17 16:32	2017-04-18T16:32:31:0000			
31	Tue 18 Apr 2	20170418.17CTD911		deploy	NaN	A3	NaN	35.955685	-74.808092		gSawkerhewic1	Water depth ar15	ar15-SE-2017	20170418.2	4/18/17 17:00	2017-04-18T17:00:23:0000			
32	Tue 18 Apr 2	20170418.18Mooring		deploy	NaN	A3	NaN	35.95574	-74.808092		gSawkerhewic1		ar15-SE-2017	20170418.2	4/18/17 18:53	2017-04-18T18:53:44:0000			
33	Tue 18 Apr 2	20170418.20Underway	Sc	deploy	NaN	INT01	NaN	35.61458	-74.791378		anOther	Pump secure ar15	ar15-SE-2017	20170418.2	4/18/17 20:26	2017-04-18T20:26:27:20 20			
34	Tue 18 Apr 2	20170418.23CTD911		recover	NaN	P1	NaN	35.741875	-74.700211		mAdress1	midway betw ar15	ar15-SE-2017	20170418.2	4/18/17 23:07	2017-04-18T23:07:11:0000			
35	Wed 19 Apr 2	20170419.08CTD911		deploy	NaN	B1	NaN	35.852393	-74.617419		mAdress1	ye-ye dtd at ar15	ar15-SE-2017	20170419.1	4/19/17 8:51	2017-04-19T08:51:04:0000			
36	Wed 19 Apr 2	20170419.15Mooring		deploy	NaN	MAB01	NaN	35.799227	-75.094248		gSawkerhewic1	Smooth depi ar15	ar15-SE-2017	20170419.2	4/19/17 15:28	2017-04-19T15:28:42:0000			
37	Wed 19 Apr 2	20170419.21CTD911		deploy	NaN	MAB02	NaN	35.789837	-75.413577		mAdress1	MAB shelf su ar15	ar15-SE-2017	20170419.2	4/19/17 20:30	2017-04-19T20:30:09:0000			
38	Wed 19 Apr 2	20170419.21CTD911		deploy	NaN	MAB03	NaN	35.788231	-75.308925		mAdress1	MAB shelf se ar15	ar15-SE-2017	20170419.2	4/19/17 21:22	2017-04-19T21:22:38:0000			
39	Wed 19 Apr 2	20170419.23CTD911		deploy	NaN	MAB03	NaN	35.788231	-75.308925		mAdress1	MAB shelf se ar15	ar15-SE-2017	20170419.2	4/19/17 23:22	2017-04-19T23:22:07:0000			
40	Wed 19 Apr 2	20170419.23CTD911		deploy	NaN	B1	NaN	35.790835	-74.998388		mAdress1	forgot to ent ar15	ar15-SE-2017	20170419.2	4/19/17 23:46	2017-04-19T23:46:51:0000			
41	Wed 19 Apr 2	20170419.23CTD911		deploy	NaN	MAB04	NaN	35.791054	-74.998717		mAdress1	MAB shelf se ar15	ar15-SE-2017	20170419.2	4/19/17 23:47	2017-04-19T23:47:32:0000			
42	Thu 20 Apr 2	20170420.01CTD911		deploy	NaN	MAB05	NaN	35.788028	-74.850277		mAdress1	MAB shelf se ar15	ar15-SE-2017	20170420	4/20/17 1:35	2017-04-20T01:35:00:0000			
43	Thu 20 Apr 2	20170420.01CTD911		deploy	NaN	MAB06	NaN	35.788028	-74.850277		gSawkerhewic1		ar15-SE-2017	20170420	4/20/17 1:35	2017-04-20T01:35:00:0000			
44	Thu 20 Apr 2	20170420.17CTD911		deploy	NaN	B2	NaN	34.773775	-75.995451		mAdress1	CS/ADCP mo ar15	ar15-SE-2017	20170420.1	4/20/17 17:43	2017-04-20T17:43:34:0000			
45	Thu 20 Apr 2	20170420.17CTD911		deploy	NaN	NaN	NaN	34.7876	-75.997454		mAdress1	delayed entr ar15	ar15-SE-2017	20170420.1	4/20/17 17:43	2017-04-20T17:43:34:0000			
46	Thu 20 Apr 2	20170420.20CTD911		deploy	NaN	SAB01	NaN	34.787601	-75.997454		21_Shaines1	late entry (a ar15	ar15-SE-2017	20170420.2	4/20/17 20:07	2017-04-20T20:07:58 20			
47	Thu 20 Apr 2	20170420.20CTD911		deploy	NaN	SAB02	NaN	34.787601	-75.997454	23.56	Shaines1	late entry (a ar15	ar15-SE-2017	20170420.2	4/20/17 20:10	2017-04-20T20:10:52 40			
48	Thu 20 Apr 2	20170420.20CTD911		deploy	NaN	SAB03	NaN	34.7876	-75.997429	30.2	Shaines1	SAB transect ar15	ar15-SE-2017	20170420.2	4/20/17 20:11	2017-04-20T20:11:53 20			
49	Thu 20 Apr 2	20170420.20CTD911		deploy	NaN	SAB04/B2	NaN	34.788065	-75.93952		mAlera1	SAB transect ar15	ar15-SE-2017	20170420.2	4/20/17 20:48	2017-04-20T20:48:55:0000			
50	Thu 20 Apr 2	20170420.20CTD911		deploy	NaN	SAB05	NaN	34.787607	-75.836254		Traylor1	SAB transect ar15	ar15-SE-2017	20170420.2	4/20/17 22:21	2017-04-20T22:21:03:0000			
51	Thu 20 Apr 2	20170420.23CTD911		deploy	NaN	SAB06	NaN	34.788689	-75.665571		Traylor1	SAB transect ar15	ar15-SE-2017	20170420.2	4/20/17 23:26	2017-04-20T23:26:06 201			
52	Fri 21 Apr 2	20170421.02CTD911		deploy	NaN	SAB07	NaN	34.78748	-75.365202		Traylor1	SAB transect ar15	ar15-SE-2017	20170421	4/21/17 0:11	2017-04-21T00:11:50:0000			
53	Fri 21 Apr 2	20170421.02CTD911		deploy	NaN	SAB07	NaN	34.78748	-75.365202		Traylor1	SAB transect ar15	ar15-SE-2017	20170421	4/21/17 0:11	2017-04-21T00:11:50:0000			
54	Fri 21 Apr 2	20170421.03CTD911		deploy	NaN	SAB08	NaN	34.805357	-75.348545		Traylor1	SAB transect ar15	ar15-SE-2017	20170421	4/21/17 2:47	2017-04-21T02:47:30 201			
55	Fri 21 Apr 2	20170421.03CTD911		deploy	NaN	A08	NaN	34.788416	-75.49885		mAdress1	SAB09	ar15	ar15-SE-2017	20170421	4/21/17 2:47	2017-04-21T02:47:30 201		
56	Fri 21 Apr 2	20170421.13Mooring		deploy	NaN	A8	NaN	34.86241	-75.674762		mAdress1	added late	ar15	ar15-SE-2017	20170421	4/21/17 15:42	2017-04-21T15:42:31:0000		
57	Fri 21 Apr 2	20170421.13Mooring		deploy	NaN	A8	NaN	34.78688	-75.659559		mAdress1	CS/ADCP mo ar15	ar15-SE-2017	20170421	4/21/17 17:48	2017-04-21T17:48:45:0000			
58	Sat 22 Apr 2	20170422.12CTD911		laistart	NaN	P7	NaN	34.92443	-75.577551	249	mAlera1	Changed 100 ar15	ar15-SE-2017	20170421.2	4/21/17 21:09	2017-04-21T21:09:55:0000			
59	Sat 22 Apr 2	20170422.02EM07.10		start	NaN	Bathy Survey	NaN	34.92443	-75.577551										

Message ID	Date	Event	Instrument	Action	Transsect	Station	Cast	Latitude	Longitude	Seafloor	Author	Comment	Cruise
1	Sat 15 Apr 2017 04:15	15 Ship	startCruise		Nan	Nan	Nan	41.34355	-70.905557		anOther	late entry - e	ar15
2	Sat 15 Apr 2017 04:15	15 Knudsen	326 start		Nan	Nan	Nan	41.32183	-70.90424		anOther	late entry knar15	ar15
3	Sat 15 Apr 2017 04:15	15 UHDA5	start		Nan	Nan	Nan	41.273944	-70.902883		anOther	late entry UH	ar15
4	Sat 15 Apr 2017 04:15	23 MK21	XBT la start		X01	Nan	Nan	40.041833	-70.684325		mAndres1		ar15
5	Sun 16 Apr 2017 04:16	01 MK21	XBT la start		X02	Nan	Nan	40.036245	-71.198266		rToed1		ar15
6	Sun 16 Apr 2017 04:16	03 MK21	XBT la start		X03	Nan	Nan	39.950201	-71.612887		jZamboni1		ar15
7	Sun 16 Apr 2017 04:16	06 MK21	XBT la start		X04	Nan	Nan	39.585659	-72.124522		gGawarkiewicz1		ar15
8	Sun 16 Apr 2017 04:16	09 MK21	XBT la start		X05	Nan	Nan	39.140955	-72.612112		jZamboni1		ar15
9	Sun 16 Apr 2017 04:16	12 MK21	XBT la start		X06	Nan	Nan	38.710793	-73.080429	180	shaines1		ar15
10	Sun 16 Apr 2017 04:16	15 MK21	XBT la start		X07	Nan	Nan	38.398337	-73.511033		jZamboni1		ar15
11	Sun 16 Apr 2017 04:16	19 CT0911	deploy		Nan	Nan	Nan	38.388189	-73.399009		rToed1		ar15
12	Sun 16 Apr 2017 04:16	19 CT0911	deploy		Nan	Nan	Nan	38.389484	-73.451558	180	shaines1	CTD School	ar15
13	Sun 16 Apr 2017 04:16	23 MK21	XBT la start		X08	Nan	Nan	37.887072	-74.026873		mAndres1		ar15
14	Mon 17 Apr 2017 04:17	09 MK21	XBT la start		X09	Nan	Nan	37.367079	-74.456515		jZamboni1		ar15
15	Mon 17 Apr 2017 04:17	09 MK21	XBT la start		X11	Nan	Nan	36.420881	-74.711174		lBall1		ar15
16	Mon 17 Apr 2017 04:17	12 MK21	XBT la start		X12	Nan	Nan	35.897415	-74.826201		tTaylor1		ar15
17	Mon 17 Apr 2017 04:17	14 P1ES	deploy		Nan	P1	Nan	35.849607	-74.617635	-1800	shaines1	off station - 9	ar15
18	Mon 17 Apr 2017 04:17	14 CT0911	deploy		Nan	P1	Nan	35.849605	-74.617635		jZamboni1		ar15
19	Mon 17 Apr 2017 04:17	18 P1ES	deploy		Nan	P02	Nan	35.688298	-74.35002		mAndres1	double ring car15	ar15
20	Mon 17 Apr 2017 04:17	18 P1ES	deploy		Nan	P02	Nan	35.688291	-74.349647		rToed1	Argo float 73	ar15
21	Mon 17 Apr 2017 04:17	18 ARGO	deploy		Nan	P02	Nan	35.695392	-74.370175		mAndres1	calibration C	ar15
22	Mon 17 Apr 2017 04:17	23 ARGO	deploy		Nan	P03	Nan	35.56045	-74.16901		rToed1	Argo float 74	ar15
23	Mon 17 Apr 2017 04:17	23 P1ES	deploy		Nan	P3	Nan	35.560515	-74.16901		mAndres1	P3 with DCPs	ar15
24	Mon 17 Apr 2017 04:17	23 P1ES	deploy		Nan	P3	Nan	35.562018	-74.166231	2735	shaines1	ADCP section	ar15
25	Mon 17 Apr 2017 04:17	23 CT0911	end		Nan	P4 to A1	Nan	36.001078	-74.820797		mAndres1	ADCP section	ar15
26	Tue 18 Apr 2017 04:18	11 Other	deploy		Nan	A1	Nan	36.001611	-74.833006		mAndres1	WHOI ADCP	ar15
27	Tue 18 Apr 2017 04:18	14 CT0911	deploy		Nan	A1	Nan	36.013451	-74.827787		gGawarkiewicz1		ar15
28	Tue 18 Apr 2017 04:18	14 CT0911	deploy		Nan	A2	Nan	35.72112	-74.862399		gGawarkiewicz1		ar15
29	Tue 18 Apr 2017 04:18	17 CT0911	deploy		Nan	A2	Nan	35.759574	-74.808992		gGawarkiewicz1		ar15
30	Tue 18 Apr 2017 04:18	17 CT0911	deploy		Nan	A3	Nan	35.595574	-74.808992	98	shaines1	Water depth	ar15
31	Tue 18 Apr 2017 04:18	20 CT0911	deploy		Nan	A3	Nan	35.614458	-74.791278		mAndres1	Pump secure	ar15
32	Tue 18 Apr 2017 04:18	20 Underway	S stop		Nan	Nan	Nan	35.741875	-74.702311		mAndres1	midway bet	ar15
33	Tue 18 Apr 2017 04:18	23 CT0911	deploy		Nan	INT01	Nan	35.852293	-74.617419		mAndres1	WV0 dcd at	ar15
34	Tue 18 Apr 2017 04:18	23 CT0911	recovert		Nan	P1	Nan	35.792227	-75.094238		gGawarkiewicz1	Smooth degl	ar15
35	Wed 19 Apr 2017 04:19	08 CT0911	deploy		Nan	B1	Nan	35.792227	-75.094238		mAndres1	MAB shelf	ar15
36	Wed 19 Apr 2017 04:19	15 Mooring	deploy		Nan	MAB01	Nan	35.788321	-75.413577		mAndres1	MAB shelf	ar15
37	Wed 19 Apr 2017 04:19	20 CT0911	deploy		Nan	MAB02	Nan	35.788321	-75.30895		mAndres1	MAB shelf	ar15
38	Wed 19 Apr 2017 04:19	21 CT0911	deploy		Nan	MAB03	Nan	35.788047	-75.178474		mAndres1	MAB shelf	ar15
39	Wed 19 Apr 2017 04:19	21 CT0911	deploy		Nan	MAB03	Nan	35.790835	-74.998989		mAndres1	forgot to ent	ar15
40	Wed 19 Apr 2017 04:19	23 CT0911	deploy		Nan	B1	Nan	35.790835	-74.998989		mAndres1	MAB shelf	ar15
41	Wed 19 Apr 2017 04:19	23 CT0911	deploy		Nan	MAB04	Nan	35.790835	-74.998989		mAndres1	MAB shelf	ar15
42	Thu 20 Apr 2017 04:20	01 CT0911	deploy		Nan	MAB05	Nan	35.788061	-74.859777		mAndres1	MAB shelf	ar15
43	Thu 20 Apr 2017 04:20	02 CT0911	deploy		Nan	MAB06	Nan	35.788038	-74.803866		mAndres1	MAB shelf	ar15
44	Thu 20 Apr 2017 04:20	17 Mooring	deploy		Nan	B2	Nan	34.773775	-75.941183		gGawarkiewicz1		ar15
45	Thu 20 Apr 2017 04:20	17 Mooring	deploy		Nan	B2	Nan	34.773775	-75.941183		mAndres1	Delayed entr	ar15
46	Thu 20 Apr 2017 04:20	20 CT0911	deploy		Nan	SA001	Nan	34.7876	-75.997451		shaines1	late entry (d	ar15
47	Thu 20 Apr 2017 04:20	20 CT0911	deploy		Nan	SA002	Nan	34.787601	-75.997451	23.55	shaines1	late entry (d	ar15
48	Thu 20 Apr 2017 04:20	20 CT0911	deploy		Nan	SA003	Nan	34.7876	-75.997451	30.2	shaines1	SAB transect	ar15
49	Thu 20 Apr 2017 04:20	20 CT0911	deploy		Nan	SA004/02	Nan	34.788065	-75.9352		mAndres1	SAB transect	ar15
50	Thu 20 Apr 2017 04:20	22 CT0911	deploy		Nan	SA005	Nan	34.787967	-75.832654		(Taylor1	SAB transect	ar15
51	Thu 20 Apr 2017 04:20	23 CT0911	deploy		Nan	SA006	Nan	34.788889	-75.666571		mAndres1	SAB transect	ar15
52	Fri 21 Apr 2017 04:21	00 CT0911	deploy		Nan	SA007	Nan	34.78748	-75.582502		mAndres1	SAB transect	ar15
53	Fri 21 Apr 2017 04:21	02 CT0911	deploy		Nan	SA009	Nan	34.805337	-75.348545		mAndres1	SAB transect	ar15
54	Fri 21 Apr 2017 04:21	03 CT0911	deploy		Nan	SA008	Nan	34.788416	-75.49885		mAndres1	added late	ar15
55	Fri 21 Apr 2017 04:21	15 Mooring	deploy		Nan	A8	Nan	34.586241	-75.674762	249	mAndres1	CS ADCP mo	ar15
56	Fri 21 Apr 2017 04:21	17 CT0911	deploy		Nan	P7	Nan	34.514548	-75.577551	1345.5	mAndres1	Chunged 100	ar15
57	Fri 21 Apr 2017 04:21	21 CT0911	deploy		Nan	P7	Nan	34.514548	-75.577551		Whitennrised	sound speed	ar15
58	Sat 22 Apr 2017 04:22	00 MK21	XBT la start		Nan	Bathymetry	Nan	34.923357	-75.354889	186	shaines1	starting BS -	ar15
59	Sat 22 Apr 2017 04:22	02 EM710	start		Nan	Bathy Survey	Nan	34.73978	-75.354012		2215 jZamboni1	late entry	ar15
60	Sat 22 Apr 2017 04:22	04 CT0911	deploy		Nan	SA010	Nan	34.73978	-75.354012		2215 jZamboni1	late entry	ar15
61	Sat 22 Apr 2017 04:22	04 CT0911	deploy		Nan	SA012	Nan	34.66423	-75.181569		2730 jZamboni1	late entry	ar15

12.4 CTD casts

