

LETTER TRANSMITTING DATA

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TO:

Molly Baringer
NOAA/AOML
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Miami, FL 33149

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3-5-2012

NUMBER OF PACKAGES

NOTE: A separate transmittal letter is to be used for each type of data, as tidal data, seismology, geomagnetism, etc. State the number of packages and include an executed copy of the transmittal letter in each package. In addition the original and one copy of the letter should be sent under separate cover. The copy will be returned as a receipt. This form should not be used for correspondence or transmitting accounting documents.

DVD's

Sec raw data

Sec Events

ADCP data

5 EM122 multibeam

Hardcopy:

XBST Log Sheets

CDT Log Sheets

Hourly WX Sheets

MOA Sheets

FROM: (Signature)

Jonathan Shannahoff @ noaa.gov

RECEIVED THE ABOVE
(Name, Division, Date)

Return receipted copy to:

NOAA Ship Ronald H. Brown
Atlantic Marine Center
439 W York St
Norfolk, VA 23510

3-5-2012

Bridge Log, 18 FEB 2012 - 5 MARCH 2012 Pg. 1

SMT	XBT Deployment Number	CTD Number	Launch Time GMT	Latitude	Longitude	Ship Speed	Ship Heading	Air Temp °C	Wind Speed KTS.	Wind Direction	Sea State
	1	26	0005	26° 30.0' N	076° 07.4' W	0.0	210	23.5	11	200	4-6 ft.
	2	26	0018	26° 30.0' N	076° 44.4' W	0.0	210	23.5	11	200	4-6 ft.
13 FEB	3		2123	26° 30.0' N	076° 44.6' W	5.0	287	24.0	11	190	2-5 FT
13 FEB	4		2131	26° 30.1' N	076° 45.1' W	7.7	282	24.0	11	190	2-5 FT
13 FEB	5		2250	26° 31.0' N	076° 49.9' W	0.0	180	24.0	10	190	2-5 FT
13 FEB	6		2259	26° 31.0' N	076° 49.9' W	0.0	180	24.0	10	190	2-5 FT
	7		2351	26° 31.0' N	076° 50.2' W		279	24.0	12	182	2-5 FT
	8		2356	26° 31.0' N	076° 50.2' W		279	24.0	12	182	2-5 FT
25 FEB	9	18	2349	26° 29.9' N	075° 42.2' W	0.0	180	24.5	9	180	4-6 ft
Feb 25	10	18	2352	26° 29.9' N	075° 42.2' W	0.0	180	24.5	8	180	4-6 ft
Feb 26	11	18	2358	26° 29.9' N	075° 42.2' W	0.0	180	24.5	8	180	4-6 ft
Feb 26	12	18	0003	26° 29.9' N	075° 42.2' W	0.0	180	24.5	8	180	4-6 ft
FEB 26	13	20	0024	26° 29.9' N	076° 05.3' W	0.0	025	23.5	17	020	2-4 ft
	14		0027	26° 29.9' N	076° 05.3' W	0.0	026	23.5	17	026	2-4 FT
	15		0338	26° 36.2	076° 05.9	6.3	240	22.2	16	016	3-5
8 FEB	16-17		0241	26° 30.2' N	076° 32.3' W	0.0	080	23.4	15	062	4-5 FT
	18		0244	26° 30.2' N	076° 32.3' W	0.0	080	23.4	15	062	4-5 FT
	19		0248	26° 30.2' N	076° 32.3' W	0.0	080	23.4	16	064	4-5 FT
	20		0251	26° 30.2' N	076° 32.3' W	0.0	080	23.4	16	064	4-5 FT
19 FEB	21		0135	26° 30.0' N	076° 44.6' W	0.0	100	23.7	12	080	2-3 FT
	22		0137	26° 30.0' N	076° 44.6' W	0.0	100	23.7	12	080	2-3 FT
	23		0144	26° 30.0' N	076° 44.6' W	0.0	100	23.7	13	080	2-3 FT
	24		0148	26° 30.0' N	076° 44.6' W	0.0	100	23.7	12	078	2-3 FT

Cast #	Date GMT	Time (GMT)	Temperature (°C)		Bar. Press. (mb)	Seas (CODE)	Vis (CODE)	Winds		Clouds		Weather (CODE)
			Dry	Wet				Dirn (true)	Speed (kts)	Amt **	Type (CODE)	
1	18 FEB 12	0649	21.5	18.5	1017.3	3	7	255	6.1	2	8	1
2	18 FEB 12	1353	24.2	20.2	1019.2	3	8	230	5	1	8	1
3	19 FEB 12	0133	22.4	19.6	1023.8	3	8	190	6	2	8	1
4	19 FEB 12	0748	22.0	19.5	1016.5	3	7	187	9	5	8	1
5	19 FEB 12	1415	24.2	20.6	1018.0	3	8	185	14	6	8,2	1
6	19 FEB 12	2128	24.5	22.2	1014.6	3	8	195	14	4	8,2	1
7	20 FEB 12	0319	24.0	22.4	1014.9	3	7	205	15	4	8,3	1
8	20 FEB 12	0944	27.0	22.0	1014.0	3	7	230	22	1	3	1
9	20 FEB 12	1528	25.5	23.7	1015.3	3	7	240	15	7	9,8,3	2
10	20 FEB 12	2114	22.8	14.5	1016.4	4	8	330	19	7	9,8,4	2
11	21 FEB 12	0326	20.2	16.2	1020.9	4	7	000	22	6	3	2
12	21 FEB 12	0839	20.0	16.5	1020.0	4	7	022	16	6	3	2
13	21 FEB 12	1326	21.7	17.0	1022.8	4	8	070	15	6	8,3	2
14	21 FEB 12	1806	22.5	18.5	1021.6	4	8	039	8	6	8,6,3	1
15	21 FEB 12	2224	21.5	18.5	1021.0	5	8	070	10	6	8,6,3	1
16	22 FEB 12	0345	21.3	19.2	1022.2	4	7	050	9	3	3	1

** IF SKY IS NOT VISIBLE, CLOUD AMOUNT = 9; OTHERWISE CLOUD AMOUNT SHOULD BE RECORDED IN EIGHTHS
(EXAMPLE: CLOUD AMOUNT = 3/8; RECORD 3)

CODE	SEA STATE (FT)	VISIBILITY (NM)	CLOUD TYPE	WEATHER	CODE
0	0.0 feet - Glassy	< 00.02	CIRRUS	CLEAR	0
1	0.0 - 0.3 feet - Rippled	00.02 - 00.10	CIRROCUMULUS	PARTLY CLOUDY	1
2	0.3 - 1.6 feet - Wavelet	00.10 - 00.25	CIRROSTRATUS	CONTINUOUS CLOUDS	2
3	1.6 - 4.1 feet - Slight	00.25 - 00.50	ALTOCUMULUS	BLOWING SNOW	3
4	4.1 - 8.2 feet - Moderate	00.50 - 01.00	ALTOSTRATUS	FOG, THICK DUST, HAZE	4
5	8.2 - 13.1 feet - Rough	01.00 - 02.00	NIMBOSTRATUS	DRIZZLE	5
6	13.1 - 19.7 feet - Very Rough	02.00 - 05.00	STRATOCUMULUS	RAIN	6
7	19.7 - 29.5 feet - High	05.00 - 10.00	STRATUS	SNOW OR RAIN/SNOW MI	7
8	29.5 - 45.9 feet - Very High	10.00 - 25.00	CUMULUS	SHOWERS	8
9	> 45.9 feet - Phenomenal	> 25.00	CUMULONIMBUS	THUNDERSTORMS	9

Cast #	Date	Time (GMT)	Temperature (°C)		Bar. Press. (mb)	Seas (CODE)	Vis (CODE)	Winds		Clouds		Weather (CODE)
			Dry	Wet				Dirn (true)	Speed (kts)	Amt **	Type (CODE)	
17	22 FEB 12	0809	21	19	1020	3	7	017	5	1	8	1
18	22 FEB 12	1306	23.3	20.6	1020.2			LT	VAR	1	8	1
19	22 FEB 12	1725	26.7	22.2	1018.8	4	8	LT	VAR	3	8, 4, 0	1
20	22 FEB 12	2254	22.5	19.5	1016.7	4	8	LF 150	8	3	8, 3, 0	1
21	23 FEB 12	0309	22.2	19.4	1017.7	4	8	LT	VAR	1	8	1
22	23 FEB 12	0738	22.8	19.0	1016.5	24	7	228	14	3	3, 8	1
23	23 FEB 12	1215	22.5	20.0	1016.5	4	8	140	12	3	0, 3, 8	1
24	23 FEB 12	1708	25.5	22.6	1017.0	4	8	200	15	7	0, 5, 8	1
25	23 FEB 12	2126	25.7	23.0	1016.1	5	9	200	13	3	0, 3, 8	1
26	24 FEB 12	0051	23.9	22.2	1017.3	4	7	200	12	2	8	1
27	24 FEB 12	0407	24.0	22.5	1017.4	4	7	190	11	1	8	0
28	24 FEB 12	0617	24.0	22.5	1017.0	3	7	183	10	0	0	0
29 TEST	25 FEB 12	0200	24.0	22.3	1019.2	3	8	187	9	1	8	1
30	26 FEB 12	0122	22.2	20.0	1019.9	4	7	022	10	8	4	2
31	28 FEB 12	0358	23.4	21.9	1025.2	4	7	085	16	7	3	2

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0	0.0 feet - Glassy	< 00.02	CIRRUS	CLEAR	0
1	0.0 - 0.3 feet - Rippled	00.02 - 00.10	CIRROCUMULUS	PARTLY CLOUDY	1
2	0.3 - 1.6 feet - Wavelet	00.10 - 00.25	CIRROSTRATUS	CONTINUOUS CLOUDS	2
3	1.6 - 4.1 feet - Slight	00.25 - 00.50	ALTOCUMULUS	BLOWING SNOW	3
4	4.1 - 8.2 feet - Moderate	00.50 - 01.00	ALTOSTRATUS	FOG, THICK DUST, HAZE	4
5	8.2 - 13.1 feet - Rough	01.00 - 02.00	NIMBOSTRATUS	DRIZZLE	5
6	13.1 - 19.7 feet - Very Rough	02.00 - 05.00	STRATOCUMULUS	RAIN	6
7	19.7 - 29.5 feet - High	05.00 - 10.00	STRATUS	SNOW OR RAIN/SNOW MI	7
8	29.5 - 45.9 feet - Very High	10.00 - 25.00	CUMULUS	SHOWERS	8
9	> 45.9 feet - Phenomenal	> 25.00	CUMULONIMBUS	THUNDERSTORMS	9

Weather Observations

Cast #	Date GMT	Time (GMT)	Temperature (°C)		Bar. Press. (mb)	Seas (CODE)	Vis (CODE)	Winds		Clouds		Weather (CODE)
			Dry	Wet				Dirn (true)	Speed (kts)	Amt **	Type (CODE)	
33	29 FEB	0835	23.3	21.5	1027.9	3	8	075	14	4	8,3	1
34	1 MAR	0100	23.8	21.1	1019.9	3	8	136	09	3	8,6	1
35	1 MAR	1516	25.2	22.1	1021.1	3	8	185	13	3	8	1
36	1 MAR	1721	26.5	23.0	1020.0	3	8	185	11	3	8	1
37	1 MAR	1820	26.0	23.0	1017.7	3	8	211	7	4	8	1
38	1 MAR	2139	26.8	23.2	1017.9	2	8	200	6	3	8	1
39	2 MAR	2310	25.5	23.0	1017.5	2	8	180	8	3	8,3	1
40	2 MAR	0437	25.0	22.5	1017.5	2	8	142	12	2	3	1
41	2 MAR	0600	24.0	22.0	1017.0	2	7	135	11	3	3	1
42	2 MAR	0740	24.5	22.0	1016.6	2	7	156	10	3	8,3	1
43	2 MAR	0916	24.2	21.5	1016.6	2	7	160	9	3	8,3	1
44	2 MAR	1115	24.5	22.5	1017.0	2	7	170	13	3	8,3	1
45	2 MAR	1310	26.0	23.0	1017.6	3	8	155	12	6	8,3	1
46	2 MAR	1505	27.0	23.0	1017.9	3	8	159	14	4	8,3	1
47	2 MAR	1645	27.0	23.0	1017.9	3	8	159	14	4	8,3	1
48	2 MAR	1818	26.0	22.5	1017.1	3	8	165	12	7	8,3	1

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0	0.0 feet - Glassy	< 00.02	CIRRUS	CLEAR	0
1	0.0 - 0.3 feet - Rippled	00.02 - 00.10	CIRROCUMULUS	PARTLY CLOUDY	1
2	0.3 - 1.6 feet - Wavelet	00.10 - 00.25	CIRROSTRATUS	CONTINUOUS CLOUDS	2
3	1.6 - 4.1 feet - Slight	00.25 - 00.50	ALTOCUMULUS	BLOWING SNOW	3
4	4.1 - 8.2 feet - Moderate	00.50 - 01.00	ALTOSTRATUS	FOG, THICK DUST, HAZE	4
5	8.2 - 13.1 feet - Rough	01.00 - 02.00	NIMBOSTRATUS	DRIZZLE	5
6	13.1 - 19.7 feet - Very Rough	02.00 - 05.00	STRATOCUMULUS	RAIN	6
7	19.7 - 29.5 feet - High	05.00 - 10.00	STRATUS	SNOW OR RAIN/SNOW MI	7
8	29.5 - 45.9 feet - Very High	10.00 - 25.00	CUMULUS	SHOWERS	8
9	> 45.9 feet - Phenomenal	> 25.00	CUMULONIMBUS	THUNDERSTORMS	9

Weather Observations

Cast #	Date	Time (GMT)	Temperature (°C)		Bar. Press. (mb)	Seas (CODE)	Vis (CODE)	Winds		Clouds Type (CODE)	Weather (CODE)
			Dry	Wet				Dirn (true)	Speed (kts)		
48	2 MAR		26.5	23.0	1016.5	3	8	168	13	8,3,1	1
51	3 MAR	0600	25.0	22.0	1016.5	3	7	173	16	8,3	1
52	3 MAR	0814	25.0	22.0	1013.8	3	7	171	18	8	1
54	3 MAR	1050	25.0	22.5	1013.7	3	7	186	19	8	1
STATION 54	3 MAR	1306	25.6	22.8	1016.0	4	7	180	12	8	1
STATION 55	3 MAR	1540	27.0	23.2	1016.0	4	7	185	20	8	1
56	3 MAR	1755	26.5	23	1014.2	4	8	187	21	8,3,1	1
57	3 MAR	1946	27.0	23.9	1012.9	4	8	185	18	8,2	2
58	3 MAR	2117	26.0	23.4	1017.3	4	8	190	20	8,3	1

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(EXAMPLE: CLOUD AMOUNT = 3/8; RECORD 3)

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0	0.0 feet - Glassy	< 00.02	CIRRUS	CLEAR	0
1	0.0 - 0.3 feet - Rippled	00.02 - 00.10	CIRROCUMULUS	PARTLY CLOUDY	1
2	0.3 - 1.6 feet - Wavelet	00.10 - 00.25	CIRROSTRATUS	CONTINUOUS CLOUDS	2
3	1.6 - 4.1 feet - Slight	00.25 - 00.50	ALTOCUMULUS	BLOWING SNOW	3
4	4.1 - 8.2 feet - Moderate	00.50 - 01.00	ALTOSTRATUS	FOG, THICK DUST, HAZE	4
5	8.2 - 13.1 feet - Rough	01.00 - 02.00	NIMBOSTRATUS	DRIZZLE	5
6	13.1 - 19.7 feet - Very Rough	02.00 - 05.00	STRATOCUMULUS	RAIN	6
7	19.7 - 29.5 feet - High	05.00 - 10.00	STRATUS	SNOW OR RAIN/SNOW MI	7
8	29.5 - 45.9 feet - Very High	10.00 - 25.00	CUMULUS	SHOWERS	8
9	> 45.9 feet - Phenomenal	> 25.00	CUMULONIMBUS	THUNDERSTORMS	9

NOAAS RONALD H. BROWN		LOCATION: ATLANTIC		TIME ZONE +5		PAGE NO. 1	
PROJECT NAME		PROJECT NO. RB-12-01		CHARLESTON-CHARLESTON		DAY (GMT) MONTH YEAR	
WBTS		LATITUDE N		LONGITUDE W		15/16 FEB 2012	
TIME (GMT)	COG/SOG	LATITUDE N	LONGITUDE W	DEPTH M	OPERATION DESCRIPTION/COMMENTS		
1700	122/11.4	32° 42.2'	079° 42.7'	387			
1800	125/11.4	32° 35.7'	079° 33.1'	47.3			
1900	125/11.7	32° 29.112'	079° 21.930'	—			
2000	124/11.4	32° 22.404'	079° 10.756'	—			
2100	090/2.0	32° 19.2' N	079° 06.4' W	—	TRANSIT		
2200	120/11.0	32° 17.7' N	079° 02.6' W	—	TRANSIT		
2300	125/11.2	32° 11.5' N	078° 52.1' W	—	TRANSIT		
0039	127/12.7	32° 00.000' N	078° 32.635' W	398	DRIFTER 101912		
0100	125/12.9	31° 57.488' N	078° 28.302' W	500			
0200	125/11.8	31° 50.743' N	078° 16.886' W	609			
0300	125/11.7	31° 43.526' N	078° 04.751' W	660			
0400	125/11.4	31° 37.265' N	077° 54.179' W	635			
0500	125/11.7	31° 30.685' N	077° 43.161' W				
0600	124/11.8	31° 25.946' N	077° 31.795' W				
0700	125/12	31° 17.070' N	077° 20.207' W				
0800	124/10.2	31° 10.414' N	077° 09.061' W				
0900	124/10.8	30° 57.8' N	076° 48.0' W		TRANSIT		

NOAAS RONALD H. BROWN		LOCATION: ATLANTIC		CHARLESTON-CHARLESTON		TIME ZONE +5		PAGE NO. 2	
PROJECT NAME		PROJECT NO. RB-12-01		DAY (GMT)		MONTH		YEAR	
WBTS		LATITUDE N		LONGITUDE W		FEB		2012	
TIME (GMT)	COG/SOG					OPERATION DESCRIPTION/COMMENTS			
1000	126/11.3	30° 51.6' N	076° 37.7' W	2075		TRANSIT			
1200	126	30° 44.4' N	076° 25.7' W	2562					
1200	11.0	30° 44.5' N	076						
1300	140/11.1	30° 38.152' N	076° 16.239' W	3718					
1400	125/11.1	30° 31.545' N	076° 04.222' W	—					
1500	125/11.5	30° 25.753' N	075° 54.546' W	3029					
1600	125/10.9	30° 19.627' N	075° 44.340' W	4373					
1700	125/11	30° 13.316' N	075° 33.899' W	—					
1800	126/11.4	30° 06.960' N	075° 23.312' W	2688 F					
1847	123/10.8	30° 02.023' N	075° 15.179' W	4526 M		DRIFTER #101975 AWAY			
1900	090/.2	30° 01.352' N	075° 14.027' W	4506 M					
1906	110/AP	30° 01.349' N	075° 14.031' W	—		CTD TEST CAST IN WATER			
1921	121/AP	30° 01.348' N	075° 14.026' W	4506		CTD TEST CAST ON DECK			
2000	090/AP	30° 01.351' N	075° 14.033' W	4506					
2029	108/AP	30° 01.351' N	075° 14.033' W	4506		CTD IN WATER.			
2100	109/AP	30° 01.346' N	075° 14.026' W	4506		CTD @ depth. / X-deck in water			
2116	109/AP	30° 01.346' N	075° 14.026' W	4506		X-deck on deck.			
2141	123/AP	30° 01.3' N	075° 14.0' W	4506		CTD ON DECK			

NOAAS RONALD H. BROWN		LOCATION: ATLANTIC		TIME ZONE ±5		PAGE NO. 3	
PROJECT NAME		PROJECT NO.		CHARLESTON-CHARLESTON		DAY (GMT)	
WBTS		RB-12-01				MONTH	
COG/SOG		LATITUDE N		LONGITUDE W		FEB	
TIME (GMT)				DEPTH M		OPERATION DESCRIPTION/COMMENTS	
2200	123/11.2	30° 00.11 N	075° 11.953 W	—			
2300	125/11.0	29° 47.3 N	074° 50.8 W	2550		TRANSIT	
0100	125/10.9	29° 40.705 N	074° 40.255 W	4499			
0200	126/11.1	29° 34.451 N	074° 30.243 W	4570			
0300	126/11.3	29° 28.107 N	074° 20.236 W	4576			
0400	126/11.0	29° 21.877 N	074° 10.206 W	4570			
0500	127/11.4	29° 05.091 N	073° 59.605 W	4627			
0600	124/11.6	29° 08.438 N	073° 48.832 W	4653			
0700	124/11.7	29° 01.666 N	073° 38.055 W	4650			
0800	125/11.5	28° 54.838 N	073° 27.277 W	4560			
0900	125/11.7	28° 48.1 N	073° 16.6 W	4600		TRANSIT	
1000	125/11.9	28° 42.2 N	073° 07.3 W	4600		TRANSIT	
1300	126/11.4	28° 20.382 N	072° 32.744 W	4864			
1400	126/11.4	28° 13.893 N	072° 22.495 W	4897			
1500	126/11.5	28° 07.375 N	072° 12.133 W	4919			
1600	126/11.1	28° 00.808 N	072° 01.880 W	4894			
1610	126/11.6	27° 59.340 N	071° 59.661 W	4905		DRIFTER # 101970	

NOAAS RONALD H. BROWN		LOCATION: ATLANTIC		TIME ZONE +5		PAGE NO. 4	
PROJECT NAME		PROJECT NO. RB-12-01		DAY (GMT) FR-1/17		MONTH YEAR	
WBTS		CHARLESTON-CHARLESTON		FEB		2012	
TIME (GMT)	COG/SOG	LATITUDE N	LONGITUDE W	DEPTH M	OPERATION DESCRIPTION/COMMENTS		
1700	128/11.3	27 53.797	071 50.826	5073			
1800	124/12.2	27 46.868	071 39.943	5116			
1900	129/11.8	27 39.793	071 28.972	5278			
2000	124/11.9	27 32.896	071 18.022	5386			
2100	124/11.9	27 27.0	071 08.9	5200			
2200	126/12.2	27 18.888	070 56.185	5403			
2300	125/11.9	27 11.4	070 44.5	5500			
0000	125/12.1	27 05.3	070 35.0	5600			
0100	126/12.0	26 57.712	070 23.030	5500			
0200	126/11.9	26 50.441	070 11.723	5421			
0300	126/11.5	26 43.684	070 01.375	5425			
0400	126/11.6	26 37.238	069 51.305	5426			
0500	123/11.8	26 30.515	069 40.637	—			
0510	220/AP	26 29.964	069 39.997	—	CTD #1 IN WATER		
0600	229/AP	26 29.961	069 40.000	5349			
0649	220/AP	26 29.966	069 39.995	5349	CTD #1 AT DEPTH w/o 5426, 5505		
0700	220/AP	26 29.966	069 39.995	5349			

NOAAS RONALD H. BROWN		LOCATION:		ATLANTIC		TIME ZONE		PAGE NO.	
PROJECT NAME		PROJECT NO.		CHARLESTON-CHARLESTON		DAY (GMT)		MONTH	
WBTS		RB-12-01				18		FEB	
TIME (GMT)	COG/SOG	LATITUDE N	LONGITUDE W	DEPTH M	OPERATION DESCRIPTION/COMMENTS				
0800	219/AP	26° 29.962'	069° 39.998'	—	CTD IN THE WATER				
0900	212/AP	26° 29.9'	069° 39.9'	—	CTD ON DECK.				
0949	212/AP	26° 29.9'	069° 39.9'	—	DRIETER AWAY # 101831				
0953	275/8	26° 29.996'	069° 40.568'	—	TRANSIT				
1000	275/11	26° 29.996'	069° 55.1'	5428	TRANSIT				
1100	275/11.9	26° 29.9'	069° 55.1'	5428	CTD				
1200	210/AP	26° 29.9'	70° 05.1'	5432	CTD IN THE WATER				
1213	210/AP	26° 29.9'	70° 05.1'	5432	CTD IN THE WATER				
1300	300/AP	26° 29.916'	070° 05.098'	5432	CTD # 2 AT DEPTH (w/ 5403, 5591 dlb)				
1353	300/AP	26° 29.914'	070° 05.100'	5432					
1400	306/AP	26° 29.916'	070° 05.096'	5432					
1500	306/AP	26° 29.913'	070° 05.099'	5432					
1700	305/AP	26° 29.912'	070° 05.100'	5432	CTD # 2 ON DECK				
1800	268/11.7	26° 29.831'	070° 16.406'	5431					
1900	270/11.6	26° 29.684'	070° 29.386'	5431					
1942	088/AP	26° 29.835'	070° 31.439'	—	WBC RELEASED.				
2000	132/AP	26° 29.804'	070° 31.322'						

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NOAAS RONALD H. BROWN		LOCATION: ATLANTIC		CHARLESTON-CHARLESTON		TIME ZONE	15	PAGE NO.	6
PROJECT NAME		PROJECT NO.		RB-12-01		DAY (GMT)	MONTH	YEAR	
WBTS						18	FEB	2012	
TIME (GMT)	COG/SOG	LATITUDE N	LONGITUDE W	DEPTH M	OPERATION DESCRIPTION/COMMENTS				
2054	247/1	26° 29.722'	70° 32.061'	—	BUOY HOOKED				
2132	050/0.5	26° 29.7'	70° 32.5'	—	BUOY ON DECK				
2200	120/0.0	26° 30.812'	070° 30.868'	5431					
2240	230	26° 29.86'	070° 31.016'	—	BUOY IN THE WATER				
2320	230/1.0	26° 29.701'	070° 31.324'		ANCHOR IN THE WATER.				
1847	160/AD	26° 29.948'	070° 29.6'		CTD IN THE WATER				
2060	160/AP	26° 29.951'	070° 29.893'						
0106	176/AP	26° 29.945'	070° 29.897'	5430					
0133	170/AP	26° 29.945'	070° 29.897'	5430	CTD #3 AT DEPTH (2% 5509, #3575 dB)				
0200	185/AP	26° 29.949'	070° 29.888'	5430					
0300	185/AP	26° 29.951'	070° 29.899'	5430					
0341	MVCS	26° 29.952'	070° 30.299'	5430	DRIFTER IN THE H ₂ O				
0400	265/12.1	26° 30.061'	070° 33.776'	5430					
0500	271/11.9	26° 29.982 N	070° 47.109 W	5429					
0600	160/AP	26° 30.005 N	070° 54.907 W	5427	END				
0608	160/AP	26° 30.005 N	070° 59.907 W	5427	CTD #4 IN THE WATER				
0700	160/AP	26° 30.005 N	070° 59.907 W	5427					

NOAAS RONALD H. BROWN		LOCATION: ATLANTIC		TIME ZONE 1-5		PAGE NO. 7	
PROJECT NAME		PROJECT NO.		DAY (GMT)		MONTH	
WBTS		RB-12-01		19		FEB	
TIME (GMT)	COG/SOG	LATITUDE N	LONGITUDE W	DEPTH M	OPERATION DESCRIPTION/COMMENTS		
0748	160/AP	26° 30.000	070° 59.905	5428	CTD #4 AT DEPTH w/o 5505m, 5586db		
0800	160/AP	26° 30.008	070° 59.906	5428			
0900	170/AP	26° 30.007	070° 59.907	5428			
0958	370/AP	26° 30.008	070° 59.908	5428	CTD#4 ON DECK.		
1100	273/11.4	26° 30.008	071° 11.488	5426			
1234	153/AP	26° 29.8	071° 30.1	5367	CTD IN THE WATER		
1300	153/AP	26° 29.867	071° 30.081	5367			
1400	170/AP	26° 29.871	071° 30.069	5367			
1415	170/AP	26° 29.869	071° 30.078	5367	CTD #5 AT DEPTH (w/654409, 5521db)		
1500	170/AP	26° 29.865	071° 30.073	5367			
1600	185/AP	26° 29.968	071° 30.055	5367			
1700	208/AP	26° 29.871	071° 30.047	5367	CTD #5 ON DECK		
1800	260/10.7	26° 29.986	071° 40.311	5312			
1900	261/11.1	26° 30.000	071° 52.463	5276			
1946	190/AP	26° 30.008	071° 59.951	5233	CTD #6 IN THE WATER		
2000	190/AP	26° 30.006	071° 59.900	5233			
2100	200/AP	26° 30.0	071° 59.9	5233			

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NOAAS RONALD H. BROWN		LOCATION: ATLANTIC		CHARLESTON-CHARLESTON		TIME ZONE +5	PAGE NO. 8
PROJECT NAME		PROJECT NO.		RB-12-01		DAY (GMT)	MONTH
WBTS		LATITUDE N		LONGITUDE W		FEB	YEAR
TIME (GMT)	COG/SOG					OPERATION/DESCRIPTION/COMMENTS	
2126	200/AP	26° 30.0'	71° 59.9'	5233	CTD AT DEPTH	5380 dB	
2200	200/AP	26° 30.006'	71° 59.962'	5233			
2300	190/AP	26° 30.0'	71° 59.9'	5233	CTD ON DECK		
2328	270/6.2	26° 29.981	071° 59.997		DRIFTER DEP. 101987		
2330	270/8.1	26° 29.990	072° 00.268		DRIFTER DEP. 107576		
0100	270/11.6	26° 30.009'	672° 19.149				
0128	180/AP	26° 29.988	672° 22.863		CTD # 7 IN THE HARD		
0200	185/AP	26° 29.988'	672° 22.836'				
0300	195/AP	26° 29.986'	672° 22.846'	5136			
0319	195/AP	26° 29.995'	672° 22.848'	5134	CTD #7 AT DEPTH (26.5209, 5281 dB)		
0400	195/AP	26° 29.989'	672° 22.845'	5134			
0500	210/AP	26° 29.989	672° 22.848	5134			
0513	20/AP	26° 29.989	672° 22.848	5134	CTD #7 ON DECK		
0600	270/11	26° 29.911	672° 30.075	5133			
0700	270/11.3	26° 30.007	672° 42.416				
0724	210/AP	26° 30.012'	672° 45.978'	5083	CTD #8 IN WATER		
0735	210/AP	26° 30.018'	672° 45.971'	5083	CTD #8 ON DECK		

NOAAS RONALD H. BROWN		LOCATION: ATLANTIC		CHARLESTON-CHARLESTON		TIME ZONE	DAY (GMT)	MONTH	YEAR	PAGE NO.
PROJECT NAME		PROJECT NO.		OPERATION DESCRIPTION/COMMENTS						
WBTS		RB-12-01				20	FEB	2012	9	
TIME (GMT)	COG/SOG	LATITUDE N	LONGITUDE W	DEPTH M						
0800	214/AP	26 30.007	072 45.996	5084						
0804	214/AP	26 30.007	074 45.998	5084	CTD #8 IN WATER					
0900	214/AP	26 29.9	072 45.7	5084						
0942	214/AP	26 29.4	072 45.9	5084	CTD ON THE BOTTOM / 5224 DB					
1000	214/AP	26 29.9	072 45.7	5084						
1100	214/AP	26 29.7	072 45.9	5084						
1143	205/AP	26 29.969	072 45.947	5084	CTD ON DECK					
1200	270/11.0	26 30.0	072 46.9	5083						
1300	270/10.0	26 29.968	072 45.929	4988						
1355	250/AP	26 29.880	073 07.892	4998	CTD # 9 IN THE WATER					
1400	260/AP	26 29.889	073 07.887	4998						
1500	270/AP	26 29.883	073 07.888	4998						
1528	265/AP	26 29.889	073 07.885	4998	CTD # 9 AT DEPTH (1/2 5064, 5134 db)					
1600	295/AP	26 29.842	073 07.876	4997						
1700	309/AP	26 29.874	073 07.866	4997						
1727	309/AP	26 29.872	073 07.873	4997	CTD #9 ON DECK					
1800	271/10.8	26 29.977	073 12.184	4982						

NOAAS RONALD H. BROWN		LOCATION: ATLANTIC		TIME ZONE 15		PAGE NO. 10	
PROJECT NAME		PROJECT NO.		DAY (GMT)		MONTH	
WBTS		RB-12-01		20		FEB	
		CHARLESTON-CHARLESTON		OPERATION DESCRIPTION/COMMENTS			
TIME (GMT)	COG/SOG	LATITUDE N	LONGITUDE W	DEPTH M			
1900	270 / 10.5	26° 29.983'	073° 23.532'	4979			
1940	295 / AP	26° 29.975'	073° 29.984'	4430	CTD # 10 IN WATER		
2000	295 / AP	26° 29.972'	073° 29.990'	4912			
2100	305 / AP	26° 29.965'	073° 29.993'	4675	CTD AT DEPTH / 5846 DB		
2204	312 / AT	26° 29.959'	073° 29.996'	4675			
2342	312 / AD	26° 29.959'	073° 29.996'	4675	CTD AT SURFACE		
0000	270 / 11.0	26° 29.993'	073° 31.743'	4897			
0100	270 / 10.4	26° 30.010'	073° 43.654'	4831			
0153	300 / AP	26° 29.986'	073° 51.860'	4697	CTD # 11 IN THE WATER		
0200	300 / AP	26° 29.990'	073° 51.799'	4697			
0300	295 / AP	26° 29.995'	073° 51.800'	4697			
0320	295 / AP	26° 29.996'	073° 51.799'	4697	CTD # 11 AT DEPTH (w/ 4757, 4818 DB)		
0400	295 / AP	26° 29.996'	073° 51.801'	4697			
0500	265 / AP	26° 29.992'	073° 51.799'	4696			
0509	295 / AP	26° 29.996'	073° 51.800'	4697	CTD # 11 ON DECK		
0600	279 / 11.2	26° 29.960'	074° 00.470'		DRIFTER 101826 AWAY		
0601	279 / 11.2	26° 29.961'	074° 00.516'		DRIFTER 101548 AWAY		

NOAAS RONALD H. BROWN		LOCATION: ATLANTIC		CHARLESTON-CHARLESTON		TIME ZONE	45	PAGE NO.	11
PROJECT NAME		PROJECT NO.		OPERATION DESCRIPTION/COMMENTS		DAY (GMT)	MONTH	YEAR	
WBTS		RB-12-01				21	FEB	2012	
TIME (GMT)	COG/SOG	LATITUDE N	LONGITUDE W	DEPTH M					
0700	207/11	26° 29.977'	074° 13.026'	4509					
0712	332/AP	26° 30.075'	074° 13.994'	4508	CTD #12 IN WATER				
0831	332/AP	26° 30.016'	074° 13.999'	4507	CTD #12 @ Depth. Max pressure 4611				
0900	332/AP	26° 30.015'	074° 14.000'	4507					
1000	332/AP	26° 30.015'	074° 14.001'	4507					
1029	349/AP	26° 30.014'	074° 13.998'	4507	CTD #12 ON DECK				
1100	265/116	26° 30.1'	074° 20.9'	4471					
1200	340/AP	26° 30.0'	074° 31.0'	4463	CTD #13 IN THE WATER				
1300	086/AP	26° 29.986'	074° 31.062'	4462					
1326	030/AP	26° 29.990'	074° 31.062'	4462	CTD #13 AT DEPTH (w/ 4563, 4560 db)				
1400	030/AP	26° 29.992'	074° 31.070'	4462					
1500	035/AP	26° 29.996'	074° 31.061'	4462					
1513	005/AP	26° 29.990'	074° 31.061'	4462	CTD #13 ON DECK				
1600	070/11.2	26° 30.008'	074° 40.763'	4394					
1646	025/AP	26° 30.012'	074° 48.057'	4501	CTD #14 IN WATER				
1700	025/AP	26° 30.011'	074° 48.058'	4503					
1800	025/AP	26° 30.011'	074° 48.057'	4501					

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NOAAS RONALD H. BROWN		LOCATION: ATLANTIC		CHARLESTON-CHARLESTON		TIME ZONE	+	5	PAGE NO.	12
PROJECT NAME		PROJECT NO.		OPERATION DESCRIPTION/COMMENTS		DAY (GMT)	MONTH	YEAR		
WBTS		RB-12-01				21	FEB	2012		
TIME (GMT)	COG/SOG	LATITUDE N	LONGITUDE W	DEPTH M						
1806	027/AP	26° 30.012 N	074° 48.053 W	4501	CTD # 14 AT DEPTH 26 4605 db					
1900	042/AP	26° 30.011 N	074° 48.054 W	4501						
2000	015/AP	26° 30.012 N	074° 48.055 W	4501						
2030	015/AP	26° 30.012 N	074° 48.055 W	4501	CTD ON DECK					
2100	240/11.7	26° 29.9 N	74° 54.9 W	4557						
2156	025/AP	26° 30.005 N	075° 04.974 W	4572						
2200	026/AP	26° 30.000 N	075° 04.975 W	4572	CTD AT DEPTH 4676 db					
2224	026/AP	26° 30.000 N	075° 04.975 W	4572						
0000	026/AP	26° 30.000 N	075° 04.975 W	4572						
0103	026/AP	26° 30.005 N	075° 04.985 W	4572	CTD # 15 ON DECK					
0206	270/11.9	26° 30.004 N	075° 06.274 W	4591						
0218	030/AP	26° 30.019 N	075° 17.994 W	4600	CTD # 16 IN THE WATER					
0300	015/AP	26° 30.014 N	075° 17.995 W	4600						
0345	015/AP	26° 30.002 N	075° 17.995 W	4600	CTD # 16 AT DEPTH (2% 4650, 4707 db)					
0400	015/AP	26° 30.002 N	075° 17.995 W	4600						
0500	015/AP	26° 30.001 N	075° 17.996 W	4599						

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NOAAS RONALD H. BROWN		LOCATION: ATLANTIC		TIME ZONE +5		PAGE NO. 13	
PROJECT NAME		PROJECT NO.		DAY (GMT)		MONTH	
WBTS		RB-12-01		22		FEB	
		CHARLESTON-CHARLESTON		OPERATION DESCRIPTION/COMMENTS			
TIME (GMT)	COG/SOG	LATITUDE N	LONGITUDE W	DEPTH M			
0530	015/AP	26°30.999	075°17.995	4599	CTD #16 ON DECK		
0600	2603/12.5	26°30.049	075°22.869	4616			
0643	049/AP	26°29.989	075°30.096	4648	CTD #17 IN WATER		
0700	055/AP	26°29.990	075°30.020	4649			
0800	059/AP	26°29.996	075°30.003	4649			
0809	059/AP	26°29.995	075°30.004	4648	CTD #17 AT DEPTH, 464710, 476046		
0900	051/AP	26°29.992	075°30.313	4648			
1000	030/AP	26°29.972	075°30.313	4648	CTD ON DECK		
1103	025/AP	26°30.1	075°42.5'	-	X-DUCKER LOWERED.		
1138	030/AP	26°30.0	075°42.3'	-	CTD IN THE WATER		
1200	030/AP	26°30.0	075°42.4'	-			
1300	015/AP	26°29.997	075°42.391	-			
1306	075/AP	26°29.999	075°42.391	-	CTD #18 AT DEPTH (4717, 4766 db)		
1400	070/AP	26°30.001	075°42.399	-			
1421	070/AP	26°29.974	075°42.487	-	X-DUCKER ON DECK		
1454	045/AP	26°29.952	075°42.721	4654	CTD #18 ON DECK		
1500	270	26°29.981	075°42.897	4654			

NOAAS RONALD H. BROWN		LOCATION: ATLANTIC		TIME ZONE +5		PAGE NO. 14	
PROJECT NAME		PROJECT NO.		DAY (GMT)		MONTH	
WBTS		RB-12-01		22/23		FEB	
		CHARLESTON-CHARLESTON		OPERATION DESCRIPTION/COMMENTS			
TIME (GMT)	COG/SOG	LATITUDE N	LONGITUDE W	DEPTH M			
1600	060/AP	26° 30.174'	075° 54.044'	4704	CTD #19 IN THE WATER		
1700	058/AP	26° 30.175'	075° 54.046'	4704			
1725	058/AP	26° 30.176'	075° 54.046'	4704	CTD AT DEPTH W/O 4765, 4823 dB		
1800	060/AP	26° 30.175'	075° 54.049'	4703			
1900	059/AP	26° 30.177'	075° 54.047'	4704			
2000	060/AP	26° 30.176'	075° 54.048'	4704	CTD #19 ON DECK		
2014	270/12.6	26° 30.212'	075° 55.298'	4530	DRIFTERS #107575 & #107574 AWAY		
2100	250/AP	26° 30.081'	076° 05.140'	4760			
2124	250/AP	26° 30.081'	076° 05.150'	4760	CTD IN THE WATER		
2200	080/AP	26° 30.080'	076° 05.192'	—			
2254	080/AP	26° 30.080'	076° 05.192'	4760	CTD AT DEPTH / 4881 AL		
2300	080/AP	26° 30.131'	076° 05.223'	4760			
0038	075/AP	26° 30.130'	076° 05.221'	—	CTD #20 ON DECK		
0040	075/AP	26° 30.129'	076° 05.222'	—	X-DUCER OUT OF THE H ₂ O		
0108	070/9.5	26° 30.022'	076° 08.533'	—			
0146	070/AP	26° 30.024'	076° 13.050'	4773	CTD #21 IN THE WATER		
0206	060/AP	26° 30.027'	076° 13.048'	4773			

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NOAAS RONALD H. BROWN		LOCATION: ATLANTIC		TIME ZONE +5		PAGE NO. 15					
PROJECT NAME		PROJECT NO.		DAY (GMT)		MONTH					
WBTS		RB-12-01		23		FEB					
TIME (GMT)		COG/SOG		LATITUDE N		LONGITUDE W		DEPTH M		OPERATION DESCRIPTION/COMMENTS	
6300	070/AP			26° 30.023'	076° 13.052'	4773					
0309	070/AP			26° 30.024'	076° 13.053	4773					CTD #21 AT DEPTH (2/04834, 4892 db)
0400	070/AP			26° 30.021'	076° 13.052	4773					
0457	069/AP			26° 30.023'	076° 13.052'	4773					CTD #21 ON DECK
0500	070/AP			26° 30.022'	076° 13.051'	4773					
0600	273/7.2			26° 29.955	076° 20.752						
0610	051/AP			26° 30.091	076° 20.876	4797					CTD # 22 IN WATER
0700	158/AP			26° 30.308	076° 20.802	4777					
0738	176/AP			26° 30.039	076° 20.801	4796.8					CTD #22 AT DEPTH w/o 4861.2M, 4923.2db
0800	176/AP			26° 30.040	076° 20.802	4796					
0900	176/AP			26° 30.040	076° 20.802	4796					
0936	176/AP			26° 30.040	076° 20.802	4796					CTD ON DECK
1000	270/8.8			26° 30.000'	076° 21.7	4792					
1046	166/AP			26° 29.9	076° 28.8						CTD IN THE WATER
1100	135/AP			26° 29.9	076° 28.8						
1200	190/AP			26° 29.9	076° 28.8						CTD AT DEPTH / 4929 db PC
1215	190/AP			26° 30.0'	076° 28.8						CTD AT DEPTH / 4929 db

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NOAAS RONALD H. BROWN		LOCATION: ATLANTIC		CHARLESTON-CHARLESTON		TIME ZONE	PAGE NO.	
PROJECT NAME		PROJECT NO.		OPERATION DESCRIPTION/COMMENTS		DAY (GMT)	MONTH	YEAR
WBTS		RB-12-01				23	FEB	2012
TIME (GMT)	COG/SOG	LATITUDE N	LONGITUDE W	DEPTH M				
1300	185/AP	26° 30.008'	076° 28.760'	—				
1400	200/AP	26° 30.012'	076° 28.759'	—				
1408	200/AP	26° 30.011'	076° 28.758'	—	CTD # 23 ON DECK			
1500	200/AP	26° 30.000'	076° 33.755'	4794				
1540	200/AP	26° 29.998'	076° 33.900'	4792	CTD # 24 IN THE WATER			
1600	185/AP	26° 29.996'	076° 33.900'	4792				
1700	185/AP	26° 30.001'	076° 33.877'	4792				
1708	185/AP	26° 30.001'	076° 33.878'	4793	CTD # 24 AT DEPTH 4784m 4910db			
1800	185/AP	26° 30.000'	076° 33.879'	4792				
1850	185/AP	26° 30.018'	076° 33.972'	4785	CTD # 24 ON DECK			
1900	222/27	26° 30.115'	076° 35.131'	4785				
1947	207/AP	26° 30.461'	076° 39.259'	4501	CTD # 25 IN WATER			
2000	207/AP	26° 30.455'	076° 39.262'	4501				
2100	205/AP	26° 30.458'	076° 39.245'	4501				
2126	205/AP	26° 30.458'	076° 39.247'	4501	CTD 25 @ depth 4609 db			
2200	205/AP	26° 30.460'	076° 39.247'	4502				
2253	205/AP	26° 30.460'	076° 39.247'	4501	CTD 25 ON DECK			

NOAAS RONALD H. BROWN		LOCATION:		ATLANTIC		TIME ZONE 1-5		PAGE NO. 17	
PROJECT NAME		PROJECT NO.		CHARLESTON-CHARLESTON		DAY (GMT)		MONTH	
WBTS		RB-12-01				25/24		FEB	
TIME (GMT)	COG/SOG	LATITUDE N	LONGITUDE W	DEPTH M	OPERATION DESCRIPTION/COMMENTS				
2300	241°/7.5	26°30.409	076°39.887	4433					
2340	167°/AR	26°29.953	076°49.484	3824	CTD IN WATER # 26				
0051	210°/AP	26°29.952	076°44.474	—	CTD #26 @DEPTH (2% 3858, 3874 db)				
0106	210°/AP	26°29.951	076°44.474	—					
0200	210°/AP	26°29.950	076°44.76	—					
0220	210°/AP	26°29.952	076°44.474	—	CTD #26 ON DECK				
0300	252°/S.O.	26°30.91	076°49.2	—					
0341	180°/AP	26°30.984	076°49.855	—	CTD #27 IN THE WATER				
0400	180°/AP	26°30.986	076°49.855	—					
0407	180°/AP	26°30.985	076°49.855	—	CTD #27 AT DEPTH (2% 1135, 1134 db)				
0441	180°/AP	26°30.982	076°49.855	—	CTD #27 ON DECK				
0500	180°/3KTS	26°31.012	076°50.254						
0451	279°/3KTS	26°30.963	076°49.903		XBT #7 DEPLOYED				
0456	279°/3KTS	26°30.972	076°50.070	864 ft	XBT #8 DEPLOYED				
0500	279°/3KTS	26°31.012	076°50.254	857 ft					
0600	180°/AP	26°31.501	076°50.503	—					
0604	178°/AP	26°31.502	076°53.505	—	CTD #28 IN WATER				

2/20/2012

NOAAS RONALD H. BROWN		LOCATION: ATLANTIC		CHARLESTON-CHARLESTON		TIME ZONE	PAGE NO.	
PROJECT NAME		PROJECT NO.		RB-12-01		DAY (GMT)	MONTH	YEAR
WBTS						24	FEB	2012
TIME (GMT)	COG/SOG	LATITUDE N	LONGITUDE W	DEPTH (M)	OPERATION DESCRIPTION/COMMENTS			
0817	178/AP	26°31.502'	076°53.505'	289'	CTD #28 AT DEPTH. w/o 306M, 313.6db			
0638	267/AP	26°31.502'	076°53.504'	285'	CTD #28 ON DECK			
0700	015/12.1	26°31.437'	076°51.111'	673'				
0800	099/12.0	26°30.934'	076°37.932'	4792'				
0900	041/11.3	26°30.541'	076°25.371'	4725'				
1000	091/10.2	26°30.147'	076°10.438'	4294'				
1100	091/11.6	26°29.6'	075°53.4'	4722'				
1500	126/1.0	26°30.779'	075°46.129'	4666'				
1345	120/0.2	26°31.267'	075°46.970'	—	FIRST BUOY FLGAT IN THE WATER			
1600	120/1.5	26°30.141'	075°44.791'	4669'				
1700	122/1.7	26°29.378'	075°43.419'	4656'				
1800	117/1.0	26°28.766'	075°42.261'	4653'				
1805	119/1.0	26°28.711'	075°42.157'	4653'	RELEASE IN THE WATER			
1829	100/AP	26°28.755'	075°41.967'	4651'	WB4 ANCHORS AWAY			
1900	180/AP	26°28.868'	075°41.969'	—	WB4			
1924	108/AP	26°28.937'	075°42.045'	—	WB4L8 IN THE WATER			
1930	108/AP	26°28.942'	075°42.044'	—	WB4L8 ANCHORS AWAY			

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NOAS RONALD H. BROWN		LOCATION: ATLANTIC		CHARLESTON-CHARLESTON		TIME ZONE	4 5	PAGE NO.	19
PROJECT NAME		PROJECT NO.		RB-12-01		DAY (GMT)	MONTH	YEAR	
WBTS						24/25	FEB	2012	
TIME (GMT)	COG/SOG	LATITUDE N	LONGITUDE W	DEPTH M	OPERATION DESCRIPTION/COMMENTS				
2000	160/AP	26° 28.955'	075° 40.705'	—	TRIANGULATION LEG 1				
2100	288/9.3	26° 30.554'	075° 45.187'	4661	TRIANGULATION LEG 2				
2200	335/AP	26° 27.389'	075° 45.158'	—	TRIANGULATION LEG 13				
2300	190/AP	26° 29.991'	075° 42.212'	4653					
2339	190/AP	26° 29.991'	075° 42.212'	4653	CTD IN THE WATER				
0000	180/AP	26° 29.989'	075° 42.210'	4653					
0100	185/AP	26° 29.986'	075° 42.212'	—					
0108	185/AP	26° 29.991'	075° 42.211'	—	TEST CTD AT DEPTH (1/2 @ 4701)				
0154	185/AP	26° 29.985'	075° 42.211'	—	X-DUCEE IN THE WATER				
0200	185/AP	26° 29.988'	075° 42.209'	—					
0300	175/AP	26° 29.988'	075° 42.210'	—					
0316	175/AP	26° 29.986'	075° 42.209'	—	TEST CTD ON DECK				
0400	165/AP	26° 29.982'	075° 42.209'	—					
0500	170/AP	26° 29.983'	075° 42.209'	—					
0600	172/AP	26° 29.985'	075° 42.210'	—					
0700	170/AP	26° 29.981'	075° 42.211'	—					
0800	165/AP	26° 29.984'	075° 42.209'	—					

NOAAS RONALD H. BROWN		LOCATION:		ATLANTIC		TIME ZONE	
PROJECT NAME		PROJECT NO.		CHARLESTON-CHARLESTON		DAY (GMT)	
WBTS		RB-12-01		OPERATION DESCRIPTION/COMMENTS		MONTH	
TIME (GMT)	COG/SOG	LATITUDE N	LONGITUDE W	DEPTH M	YEAR		
0900	165 / AP	26° 29.981	075° 42.210	4653	25 FEB 2012		
1000	162 / AP	26° 29.982	075° 42.214	4653			
1100	160 / AP	26° 29.982	075° 42.214	—			
1200	139 / AP	26° 21.787	075° 42.460	—			
1300	139 / AP	26° 21.8'	075° 42.5'	—			
1408	332 / 95	26° 23.887	075° 44.220	—			
1500	180 / AP	26° 29.260	075° 48.516	—			
1533	226 / AP	26° 28.764	075° 48.152	—	RELEASE FIRED. WB4		
1600	220 / AP	26° 28.761	075° 48.154	—			
1700	220 / AP	26° 29.448'	075° 50.035'	—	COMMENCED WB4 RECOVERY.		
1800	028 / 1.2	26° 30.270'	075° 49.619	4688			
1900	019 / 9	26° 31.152	075° 49.353	4682			
2000	044 / 14	26° 32.158'	075° 49.090'	4675			
2200	255 / 9.0	26° 32.503'	075° 55.289'	4716			
2300	240 / 9.0	26° 30.495'	076° 03.989'	4755			
0000	000 / AP	26° 29.991	076° 05.307	—			
0013	020 / AP	26° 29.991	076° 05.307	—			

NOAAS RONALD H. BROWN		LOCATION: ATLANTIC		CHARLESTON-CHARLESTON		TIME ZONE	PAGE NO.
PROJECT NAME		PROJECT NO.		RB-12-01		DAY (GMT)	MONTH
WBTS						FEB	YEAR
TIME (GMT)	COG/SOG	LATITUDE N	LONGITUDE W	DEPTH M	OPERATION DESCRIPTION/COMMENTS		
0100	030/AP	26.30.078	076.05.373	—			
0122	030/AP	26.30.048	076.05.394	—	CTD # 20 AT DEPTH (w/ 2529, 355416)		
0200	030/AP	26.30.075	076.05.435	—			
0300	030/AP	26.30.149	076.05.541	—			
0327	030/AP	26.30.192	076.05.599	—	CTD # 20 ON DECK		
0400	270/S.9	26.29.998	076.09.602	—			
0500	209/9.1	26.29.723	076.19.484	4784			
0600	044/AP	26.29.442	076.28.276	—	TRANSDUCER IN THE WATER		
0700	051/AP	26.29.466	076.28.201	4773			
0800	050/AP	26.29.475	076.28.158	—			
1300	050/AP	26.28.780	076.38.465	—			
1700	061/AP	26.27.098	076.43.495	—			
1708	184/.8	26.26.987	076.43.667	—	COMPLETED MORNING OPERATION WBZ		
1800	130/.9	26.26.479	076.43.418	—			
1900	030/7.3	26.28.823	076.41.472	—			
1931	040/.5	26.29.485	076.41.151	—	WBZ IN THE WATER, DEPLOYMENT STARTED		
2000	049/1.0	26.29.449	076.40.829	—			

NOAAS RONALD H. BROWN		LOCATION: ATLANTIC		CHARLESTON-CHARLESTON		TIME ZONE	+	5	PAGE NO.	22
PROJECT NAME		PROJECT NO.		RB-12-01		DAY (GMT)	MONTH	YEAR		
WBTS						26/27	FEB	2012		
TIME (GMT)	COG/SOG	LATITUDE N	LONGITUDE W	DEPTH M	OPERATION DESCRIPTION/COMMENTS					
2100	100/2.1	26° 29.258	076° 39.566	4424						
2157	100/AP	26° 28.882'	076° 39.364'	4696	WB 4 ANCHOR AWAY					
2200	080/AP	26° 28.874'	076° 37.367'	4700						
2300	080/AP	26° 28.9'	076° 37.5'	4700						
0000	235/5	26° 25.0'	076° 42.0	—						
0100	194/5.5	26° 22.888'	076° 44.565	—						
0200	174/6.8	26° 17.024'	076° 46.118	—						
0300	144/6.3	26° 09.942'	076° 48.081	—						
0400	194/6.5	26° 04.153'	076° 49.693	—						
0500	194/7.3	25° 57.655	076° 51.477	4156						
0600	144/7.4	25° 50.604	076° 53.410	4062						
0700	055/8.2	25° 47.619	077° 00.877	4491						
0800	272/4.6	25° 46.325	077° 00.240	1545						
1500	090/10.5	25° 46.356'	077° 06.419	1483						
1600	21/11.3	25° 53.096	077° 01.357	—						
1700	24/11.6	26° 04.142	076° 56.505	4320						
1800	24/11.3	26° 14.661	076° 51.797							

NOAS RONALD H. BROWN		LOCATION: ATLANTIC		TIME ZONE +5		PAGE NO. 23					
PROJECT NAME		PROJECT NO.		DAY (GMT)		MONTH					
WBTS		RB-12-01		27/28		FEB					
TIME (GMT)		COG/SOG		LATITUDE N		LONGITUDE W		DEPTH M		OPERATION DESCRIPTION/COMMENTS	
1900	/11.1			26° 25' 17.3	076° 47.116	—					
1936	105/AP			26° 30.622'	076° 44.875'	—					WBZ MOORING RELEASED
2000	102/AP			26° 30.620'	076° 44.871	—					
2100	300/20			26° 31.704	076° 45.601	—					
2200	260/0.5			26° 31.697'	076° 47.139'	2475					
2300	251/1.6			26° 31.380	076° 48.364	1534					
0000	257/20			26° 31.116	076° 49.943	1060					
0100	090/11.2			26° 30.603	076° 41.395	—					
0200	090/10.7			26° 30.805	076° 38.900	4798					
0218	080/AP			26° 30.187	076° 38.275	4800					CTD @ STATION 23 IN THE H ₂ O
0228	080/AP			26° 30.187	076° 38.275	4800					CTD ON DECK
0233	080/AP			26° 30.193	076° 38.267	4800					CTD @ STATION 23 IN THE H ₂ O
0300	080/AP			26° 30.185	076° 38.269	4800					
0358	080/AP			26° 30.188	076° 38.268	4800					CTD AT DEPTH (10/64635)
0500	108/AP			26° 30.209'	076° 32.274	4763					
0600	100/AP			26° 30.209'	076° 32.271'	4803					
0615	100/AP			26° 30.208'	076° 32.271'	4803					CTD #23 ON DECK

NOAAS RONALD H. BROWN		LOCATION: ATLANTIC		TIME ZONE +5		PAGE NO. 25	
PROJECT NAME		PROJECT NO.		CHARLESTON-CHARLESTON		DAY (GMT)	
WBTS		RB-12-01				MONTH	
						FEB	
						YEAR	
						2012	
TIME (GMT)	COG/SOG	LATITUDE N	LONGITUDE W	DEPTH M	OPERATION DESCRIPTION/COMMENTS		
20000	276/115	26° 30.831'	076° 44.527'	3873			
22000	103/6.1	26° 31.495'	076° 52.029'	—			
22005	103/6.5	26° 31.498'	076° 52.077'	—	WB ADSP ANCHOR DEPLOYED		
23000	092/AP	26° 30.537	076° 44.681	3865	WB2L DEPLOYED		
00000	025/AP	26° 30.2'	076° 44.14'	—			
01000	100/AP	26° 30.007'	076° 44.614	3828	CTD AT STATION 26 IN THE WATER		
02000	100/AP	26° 30.007'	076° 44.608	3828	-FB-		
02035	100/AP	26° 30.059'	076° 44.609	—	CTD @ DEPTH (10% 3689, 3801 db)		
03000	100/AP	26° 30.007'	076° 44.613	—			
04000	100/AP	26° 30.007'	076° 44.617	—			
04200	102/AP	26° 30.007'	076° 44.614'	—	CTD #26 ON DECK		
05000	102/AP	26° 30.006'	076° 44.612'	—			
06000	098/AP	26° 30.008'	076° 44.609'	—			
07000	015/AP	26° 30.006	076° 44.613	—			
08000	015/AP	26° 30.005	076° 44.614	—			
09000	095/AP	26° 30.2	076° 45.8	—			
10000	270/3.5	26° 30.1	076° 49.2	—			

NOAAS RONALD H. BROWN		LOCATION: ATLANTIC		TIME ZONE + S		PAGE NO. 24	
PROJECT NAME		PROJECT NO.		DAY (GMT)		MONTH	
WBTS		RB-12-01		28		FEB	
TIME (GMT)	COG/SOG	LATITUDE N	LONGITUDE W	DEPTH M	OPERATION DESCRIPTION/COMMENTS		
0700	268/12.3	26° 30.590'	076° 40.744'	—			
0746	096/AP	26° 31.034'	076° 49.922'	—	TRANSDUCERS IN WATER.		
0800	097/AP	26° 31.036'	076° 49.921'	—			
0900	097/AP	26° 31.035'	076° 49.918'	—			
1000	097/AP	26° 31.035'	076° 49.915'	—			
1100	070/7.5	26° 29.3'	076° 45.7'	—			
1252	M/W/C/S/0.0	26° 30.378'	076° 42.957'	3860	WOBAL MEASURING AT THE SURFACE		
1300	M/W/C/S/0.0	26° 30.302'	076° 44.895'	3860			
1317	M/W/C/S/0.2	26° 30.197'	076° 44.899'	3860	FIRST LINE TO MEASURING WOBAL		
1400	080/8.4	26° 30.877'	076° 47.721'	1988			
1500	090/AP	26° 30.718'	076° 49.260'	1353			
1515	090/AP	26° 30.718'	076° 49.260'	1353	WOBAL FIRST FLAT IN THE WATER		
1600	090/1.0	26° 30.718'	076° 48.691'	1351			
1700	089/1.0	26° 30.717'	076° 47.593'	2051.70			
1800	090/1.4	26° 30.713'	076° 46.004'	3521			
1900	092/1.4	26° 30.722'	076° 44.530'	3870.6			
1920	091/1.4	26° 30.723'	076° 43.995'	3830	WOBAL ANCHOR AWAY		

NOAAS RONALD H. BROWN		LOCATION: ATLANTIC		TIME ZONE		PAGE NO.	
PROJECT NAME		PROJECT NO.		DAY (GMT)		MONTH	
WBTS		RB-12-01		FEB		YEAR	
TIME (GMT)	COG/SOG	LATITUDE N	LONGITUDE W	DEPTH M	OPERATION DESCRIPTION/COMMENTS		
1100	080/AP	26° 30.1'	076° 49.2'	1367			
1200	080/AP	26° 30.1'	076° 49.2'	1367			
1300	100/0.0	26° 30.568	076° 49.009	1352	FIRST LINE TO MERRINS WBI		
1400	190/1.4	26° 29.615'	076° 49.169	1407			
1445	190/0.0	26° 29.615	076° 49.169	1407	MEASURING COMPLETE		
1600	095/AP	26° 30.205	076° 51.692	972			
1634	094/0.5	26° 30.207'	076° 51.691'	970	COMMENCED ^{WBI} TUBSET DEPLOYMENT		
1700	098/0.8	26° 30.188'	076° 51.370'	961			
1800	099/1.3	26° 30.080'	076° 50.139'	—			
1854	094/1.5	26° 29.968'	076° 48.778'	—	WBI ANCHOR AWAY. DEPLOYMENT COMPLETE		
1900	309/AP	26° 30.016	076° 48.775'	—			
1941	125/AP	26° 31.640	076° 52.789	—	WBI ALL MOORING RELEASE		
1945	125/AP	26° 31.640	076° 52.789	—	WBI ALL AT SURFACE		
2000	124/AP	26° 32.791	076° 52.780	—			
2100	111/1	26° 32.800	076° 52.477	—			
2200	131/AP	26° 30.548'	076° 50.142'	—			
2300	324/AP	26° 29.118	076° 49.446	—			

NOAAS RONALD H. BROWN		LOCATION: ATLANTIC		TIME ZONE 45		PAGE NO. 27	
PROJECT NAME		PROJECT NO. CHARLESTON-CHARLESTON		DAY (GMT)	MONTH	YEAR	
WBTS		RB-12-01		1	FEB-MAR	2012	
TIME (GMT)	COG/SOG	LATITUDE N	LONGITUDE W	DEPTH M	OPERATION DESCRIPTION/COMMENTS		
2354 1857	126/AP	26° 29.9'	076° 44.5'	3825	CTD IN THE WATER		
0100	140/AP	26° 29.929	076° 44.543	—	CTD AT DEPTH (w/ 3449, 3554lb)		
0200	140/AP	26° 29.928	076° 44.550	—			
0300	140/AP	26° 29.928	076° 44.550	—			
0400	202/13.6	26° 19.443	076° 50.306	—			
0500	149/14.0	26° 04.359	076° 56.373	—			
0600	202/12.7	25° 51.523	077° 01.927	—			
0700	209/12.3	25° 44.532	077° 10.699	—			
0800	300/13	25° 50.291	077° 23.319	—			
1300	300/10.6	26° 23.327	078° 25.678	—			
1457	140/AP	26° 26.028	078° 40.025	—	CTD STA 34 IN THE WATER		
1516	140/AP	26° 26.036	078° 40.023	—	CTD @ STA 34 AT DEPTH (w/ 736, 757lb)		
1548	140/AP	26° 26.032	078° 46.019	—	CTD @ STA 39 ON DECK		
1643	143/AP	26° 20.159'	078° 42.925'	688	CTD # 35 IN WATER.		
1653	151/AP	26° 20.158	078° 42.973	686	CTD # 35 ON DECK		
1700	153/AP	26° 20.157	078° 42.971	686			
1702	154/AP	26° 20.155	078° 42.970	687	CTD # 35 IN WATER		

NOAAS RONALD H. BROWN		LOCATION: ATLANTIC		PROJECT NAME: CHARLESTON-CHARLESTON		TIME ZONE	45	PAGE NO.	28
PROJECT NAME		PROJECT NO.		OPERATION DESCRIPTION/COMMENTS		DAY (GMT)	MONTH	YEAR	
WBTS		RB-12-01				1	2	MARCH	2012
TIME (GMT)	COG/SOG	LATITUDE N	LONGITUDE W	DEPTH M					
1721	164/AP	26° 20.156'	078° 42.269'	—	CTD #35 AT DEPTH, W/O 682M, 700DB				
1749	173/AP	26° 20.155'	078° 42.264'	—	CTD #35 ON DECK				
1800	118/11.2	26° 19.907'	078° 42.321'	—					
1900	216/12.0	26° 24.748'	078° 38.684'	—					
2000	199/6.2	26° 15.038'	078° 45.929'	—					
2007	195/AP	26° 14.917'	078° 45.787'	—	CTD #36 IN WATER				
2020	195/AP	26° 14.917'	078° 45.787'	—	CTD AT DEPTH 1520M				
2041	195/AP	26° 14.917'	078° 45.787'	—	CTD ON DECK				
2100	206/9.0	26° 12.709'	078° 46.841'	—					
2124	293/AP	26° 09.954'	078° 48.021'	—	CTD IN THE WATER (#32)				
2139	282/AP	26° 09.956'	078° 48.023'	—	CTD @ DEPTH 4509DB 492M				
2156	282/AP	26° 09.956'	078° 48.023'	—	CTD ON DECK				
2200	282/AP	26° 09.956'	078° 48.023'	—					
2257	250/AP	26° 07.030'	078° 50.947'	—	CTD IN THE WATER (#38)				
2300	250/AP	26° 07.030'	078° 50.947'	—					
2310	250/AP	26° 07.030'	078° 50.947'	—	CTD AT DEPTH				
2300	290/9.6	26° 13.810'	078° 06.133'	—					

NOAAS RONALD H. BROWN LOCATION: ATLANTIC
 PROJECT NAME: PROJECT NO. CHARLESTON-CHARLESTON
 WBTB RB-12-01
 TIME ZONE +5
 DAY (GMT) MONTH YEAR
 2 MARCH 2012
 PAGE NO. 29

TIME (GMT)	COG/SOG	LATITUDE N	LONGITUDE W	DEPTH M	OPERATION DESCRIPTION/COMMENTS
6300	180/S.1	26° 08.970	079° 09.978	—	
0400	200/S.1	26° 03.536	079° 10.248	—	
0424	135/6.5	26° 03.236	079° 14.918	369	CTD #36 IN THE WATER
0437	124/4.6	26° 03.399	079° 14.971	—	CTD #36 AT DEPTH W/8377M, 376 db
230158	125/.8	26° 03.763	079° 15.044	—	CTD #39 ON DECK
0500	125/.7	26° 03.790	079° 15.044	—	
0543	095/AP	26° 02.451	079° 18.716	—	CTD #40 IN WATER
0501	095/AP	26° 03.102	079° 18.780	—	CTD #40 AT DEPTH, W/6485, 485db
0624	095/AP	26° 03.947	079° 18.510	—	CTD #40 ON DECK
0700	210/6.7	26° 02.897	079° 21.497	—	
0723	095/AP	26° 02.514	079° 24.148	—	CTD #41 IN WATER
0740	096/Δ0	26° 03.121	079° 24.015	—	CTD #41 AT DEPTH, W/6597M, 589db
0800	095/AP	26° 03.962	079° 23.849	—	
0806	095/AP	26° 04.048	079° 23.835	—	CTD #41 ON DECK
0900	111/AP	26° 02.046	079° 28.722	—	
0904	111/AP	26° 02.042	079° 28.650	—	CTD #42 IN THE WATER
0924	111/AP	26° 02.509	079° 28.320	—	CTD AT DEPTH, 667 db

NOAAS RONALD H. BROWN		LOCATION:		ATLANTIC		TIME ZONE 45		PAGE NO. 30	
PROJECT NAME		PROJECT NO.		CHARLESTON-CHARLESTON		DAY (GMT)		MONTH	
WBTS		RB-12-01				02		MARCH	
TIME (GMT)	COG/SOG	LATITUDE N	LONGITUDE W	DEPTH M	OPERATION DESCRIPTION/COMMENTS				
0951	141/AP	26° 03.22'	079° 28.460'	-	CTD AT SURFACE				
0500		26° 03.2'	079° 28.5'	-					
0550	135/AP	26° 02.4'	079° 33.9'	-	CTD IN THE WATER				
1114	165/AP	26° 03.0'	079° 33.6'	-	CTD AT DEPTH, 760 db				
1156	180/6.5	26° 02.733	079° 33.5'	-	# 101569 DRIETER DEPLOYED				
1157	180/6.5	26° 02.601	079° 33.5'	-	# 101989 DRIETER DEPLOYED				
1252	150/1.5	26° 02.425	079° 39.924	-	CTD # 44 IN H ₂ O				
1310	165/1.0	26° 02.973	079° 39.717	-	CTD AT DEPTH (w/665, 699 db)				
1336	165/1.7	26° 03.443	079° 39.666	-	CTD #44 ON DECK.				
1400	151/7.2	26° 03.163	079° 41.351	-					
1450	155/1.6	26° 03.029	079° 45.860	-	CTD #45 IN WATER				
1505	160/1.6	26° 03.338	079° 45.761	-	CTD AT DEPTH (w/6590, 598 db)				
1546	180/1.6			-	CTD #45 ON DECK				
1606	230/6.3	26° 03.164	079° 47.826	-					
1635	181/19	26° 02.219	079° 50.954	-	CTD #46 IN WATER				
1645	180/3.6	26° 02.735	079° 51.009	-	CTD AT DEPTH, w/0311 db 313				
1700	174/3.9	26° 03.440	079° 51.043	-					

NOAAS RONALD H. BROWN		LOCATION: ATLANTIC		TIME ZONE 45		PAGE NO. 31	
PROJECT NAME		PROJECT NO.		DAY (GMT)		MONTH	
WBTS		RB-12-01		02		MARCH	
CHARLESTON-CHARLESTON		OPERATION DESCRIPTION/COMMENTS		YEAR		2012	
TIME (GMT)	COG/SOG	LATITUDE N	LONGITUDE W	DEPTH M			
1741	179/3.9	26 03 56.8	079 51.050	—	CTD ON DECK		
1800	240/5.6	26 01 944	079 55.438	—			
1807	179/AP	26 02.312	079 55.919	—	CTD #47 IN WATER		
1818	179/AP	26 03.082	079 55.898	—	CTD AT DEPTH 40 275m		
1830	180 180/AP	26 03 560	079 55.854	—	CTD ON DECK		
1900	257/3.4	26 02.799	079 57.445	—			
1940	186/2.6	26 02.270	80 00.001	—	CTD #48 IN THE WATER		
1952	180/1.6	26 02.916	079 59.997	—	CTD #48 AT DEPTH 120 240 db		
2000	180/3.0	26 03.135	079 59.956	—			
2004	180/3.5	26 03.402	079 59.953	—	CTD #48 ON DECK		
2056	170/3.5	26 02.8	080 03.8	—	CTD #49 IN THE WATER		
2058	170/3.5	26 02.0	080 03.8	—	CTD AT DEPTH / 135 db		
2168	175/1.8	26 03.3	080 03.7	—	CTD ON DECK #48		
2200	068/9.1	26 04.448	080 04.486	—			
2300	020/13.2	26 13.971	079 56.222	—			
0000	020/13.0	26 26.3	079 51.3	339.4			
0106	000/12.9	26 39.599	079 49.937				

3/1/2012

NOAAS RONALD H. BROWN		LOCATION: ATLANTIC		TIME ZONE	15	PAGE NO.	32
PROJECT NAME		PROJECT NO.		DAY (GMT)	MONTH	YEAR	
WBTS		RB-12-01		03	MARCH	2012	
TIME (GMT)	COG/SOG	LATITUDE N	LONGITUDE W	DEPTH M	OPERATION DESCRIPTION/COMMENTS		
0200	001/12.9	26.52.316	079.50.025	—			
0359	180/2.0	26.59.407	079.56.131	—	CTD #50 IN WATER		
0409	180/1.9	26.59.868	079.56.104	—	CTD #50 AT DEPTH		
0415	180/4.1	27.00.153	079.56.088	—	CTD #50 ON DECK		
0438	140/1	27.00.579	079.56.032	—	NEUSTON NET IN THE WATER		
0450	169/3	27.00.509	79.56.021	—	NEUSTON NET ON DECK		
0500	172/1.1	27.00.387	079.55.985	—			
0540		26.59.104	079.51.990	—	CTD # 51 IN WATER		
0600	180/2.1	26.59.713	079.52.005	—	CTD #51 AT DEPTH w/ 250.3 257db		
0615	180/3.2	27.00.431	079.52.040	—	CTD ON DECK		
0645	180/0.2	27.00.864	079.52.065	—	NEUSTON NET IN WATER		
0657	180/1.3	27.00.857	079.52.076	—	NET ON DECK		
0700	180/1.5	27.00.795	079.52.079	—			
0745	108/6.3	26.59.145	079.48.021	—	TWO DRIFTERS DEPLOYED #107577		
0758	180/1.9	26.59.168	079.46.941	—	CTD # 52 IN WATER		
0800	180/1.9	26.59.221	079.46.943	—			
0814	180/2.2	26.59.897	079.46.950	—	CTD #52 AT DEPTH w/ 040.4/386.5db		

NOAAS RONALD H. BROWN		LOCATION: ATLANTIC		TIME ZONE 45		PAGE NO. 33	
PROJECT NAME		PROJECT NO.		DAY (GMT)		MONTH	
WBTS		RB-12-01		03		MARCH	
		CHARLESTON-CHARLESTON		OPERATION DESCRIPTION/COMMENTS			
TIME (GMT)	COG/SOG	LATITUDE N	LONGITUDE W	DEPTH M			
0835	180/1.6	27° 00.5'	079° 46.9'	-	CTD ON DECK # 53		
0906	180/2.0	27° 00.3'	079° 46.9'	-			
0910	170/1.3	26° 59.9'	079° 46.9'	-	NET IN WATER		
0920	170/1.7	27° 00.1'	079° 46.9'	-	NET ON DECK.		
1000	120/3.2	26° 58.9'	079° 43.9'	-			
1034	175/1.9	26° 59.0'	079° 41.0'	-	CTD IN THE WATER # 54-53		
1050	175/1.4	26° 59.3'	079° 41.0'	-	CTD AT DEPTH / 54 db		
1120	175/3.7	27° 00.5'	079° 40.9'	-	CTD ON DECK		
1153	175/6.9	26° 59.3'	079° 41.0'	-	NET IN THE WATER		
1200	175/6.4	26° 59.3'	079° 41.0'	-			
1204	175/0.2	26° 59.3'	079° 41.0'	-	NET ON DECK		
1246	180/2.7	26° 58.812	079° 36.922	-	CTD# 54 IN WATER		
1306	180/1.8	26° 59.758	079° 37.035	-	CTD AT DEPTH (w/ 650, 638 db)		
1338	175/1.1	27° 00.937	079° 36.978	-	CTD ON DECK		
1406	092/4.4	27° 06.882	079° 35.545	-			
1413	181/1.4	27° 06.910	079° 34.987	-	NET IN WATER		
1414	181/0.9	27° 06.849	079° 35.063	-	NET ON DECK		

3/1/2012

NOAAS RONALD H. BROWN		LOCATION: ATLANTIC		TIME ZONE +5		PAGE NO. 34	
PROJECT NAME		PROJECT NO. RB-12-01		DAY (GMT) 3		MONTH MARCH	
WBTS		CHARLESTON-CHARLESTON		YEAR 2012			
TIME (GMT)	COG/SOG	LATITUDE N	LONGITUDE W	DEPTH M	OPERATION DESCRIPTION/COMMENTS		
1500	120/6.6	26°59.484	079°32.459	—			
1520	175/1.6	26°58.807	079°30.118	—	CTD # 55 IN THE H ₂ O		
1540	175/0.3	26°59.349	079°30.015	—	CTD AT DEPTH (w/o 738, 753 db)		
1600	175/2.8	26°59.921	079°29.889	—			
1610	175/1.9	27°00.569	079°29.795	—	CTD # 55 ON DECK.		
1645	141/1.0	26°59.467	079°26.949	—	NEUSTON NET IN WATER		
1650	179/1.4	26°59.372	079°26.878	—	NEUSTON NET ON DECK		
1700	178/4.3	26°59.295	079°26.783	—			
1735	180/1.6	26°59.123	079°22.908	—	CTD # 56 IN WATER		
1755	190/1.9	26°59.661	079°22.875	—	CTD AT DEPTH w/o 712 db		
1800	180/1.9	26°59.674	079°22.874	—			
1827	180/0.8	27°00.034'	079°22.695'	—	CTD # 56 ON DECK		
1830	180/1.4	27°00.043'	079°22.677'	—	NEUSTON NET IN WATER		
1840	190/1.2	26°59.743'	079°22.646'	—	NEUSTON NET ON DECK.		
1900	099/8.1	26°59.147'	079°20.544'	—			
1928	007/2.2	26°59.168'	079°17.258'	—	CTD # 57 IN WATER		
1946	003/1.6	26°59.594'	079°17.210'	—	CTD # 57 AT DEPTH. w/o 602m, db		

NOAAS RONALD H. BROWN		LOCATION: ATLANTIC		TIME ZONE +5		PAGE NO. 35	
PROJECT NAME		PROJECT NO. RB-12-01		DAY (GMT)		MONTH	
WBTS		CHARLESTON-CHARLESTON		3 / 4		MARCH	
TIME (GMT)	COG/SOG	LATITUDE N	LONGITUDE W	DEPTH M	OPERATION DESCRIPTION/COMMENTS		
2000	004/0.7	26° 59.874'	079° 17.169'	—			
2008	013/0.7	26° 59.994'	079° 17.144'	—	CTD #57 ON DECK		
2011	194/0.9	26° 59.986'	079° 17.146'	—	NEUSTON NET IN WATER		
2020	197/1.3	26° 59.806'	079° 17.196'	—	NEUSTON NET ON DECK		
2100	195/0.6	26° 59.772'	079° 12.083'	—	CTD #58 IN THE WATER.		
2117	195/2.3	26° 59.932'	079° 12.077'	—	CTD AT DEPTH / 478db 470db		
2115	195/	27° 00.6'	079° 12.016'	—	CTD ON DECK		
2143	213/	27° 29.6'	079° 12'	—	NEUSTON NET IN WATER		
2146	213/0.9	27° 00.296'	079° 12.125'	—	NEUSTON NET ON DECK		
2158	213/0.9	27° 00.296'	079° 12.125'	—			
2200	320/0.6	27° 00.282'	079° 12.133'	—			
2300	320/15.1	27° 08.199'	079° 18.293'	—			
0000	356/15.7	27° 23.568'	079° 20.668'	—			
0100	356/14.8	27° 38.710'	079° 21.306'	—			
0200	356/15.3	27° 53.369'	079° 21.949'	—			
0300	357/15.2	28° 09.618'	079° 22.780'	—			
0400	359/14.7	28° 22.597'	079° 23.314'	—			
0500	356/14.0	28° 38.276'	079° 24.077'	—			

NOAAS RONALD H. BROWN		LOCATION: ATLANTIC		TIME_ZONE 45		PAGE NO. 36		
PROJECT NAME		PROJECT NO. RB-12-01		CHARLESTON-CHARLESTON		DAY (GMT)	MONTH	YEAR
WBTS		LATTITUDE N		LONGITUDE W		4	MARCH	2012
TIME (GMT)	COG/SOG	LATITUDE N	LONGITUDE W	DEPTH M	OPERATION DESCRIPTION/COMMENTS			
0600	354/14.2	28 52.672	079 24.776	—				
0700	358/14.1	29 06.07.025	079 25.414	—				
0700	014/14.1	29 21 207	079 24.302	—				
1300	354/4.8	30 23.376	079 27.715	—				
1400	358/8.7	30 32.039	079 28.504	—				
1500	002/7.3	30 39.853	079 28.592	—				
1600	357/8.3	30 47.542	079 28.883	—				
1700	358/8.0	30 55.001'	079 29.560'	—				
1800	354/9.2	31 03 571	079 30.083	—				
1900	359/8.0	31 13.135	079 30.038	—				
2000	358/7.7	31 21.664'	079 31.637'	—				
2200	358/8.4	31 40.187	079 32.745'	—				
2300	358/7.7	31 49.660'	079 33.2'	—				
0100	358/8.0	32 04.040'	079 33.890	—				
0200	355/8.6	32 11.521	079 34.269	—				
0300	356/9.7	32 21.836	079 34.744	—				
0400								

NOAAS RONALD H. BROWN		LOCATION: ATLANTIC		TIME ZONE +5		PAGE NO. 37	
PROJECT NAME		PROJECT NO.		DAY (GMT)		MONTH	
WBTS		RB-12-01		5		MARCH	
YEAR		LONGITUDE		DEPTH		OPERATION DESCRIPTION/COMMENTS	
TIME(GMT)	COG/SOG	LATITUDE N	LONGITUDE W	DEPTH			
0500	299 / 6.9	32 37.547'	079° 34.727'	92 ft			
0600	278 / .8	32 41.098	079° 41.544	28 Ft			
0700	240 / .1	32 41.100	079° 41.548	29.2			
0800	236 / AP	32° 41.100	079° 41.550	31.3 ft			

DECK LOG - WEATHER OBSERVATION SHEET

NOAA SHIP **RONALD H. BROWN** DAY **WED** DATE **15 FEB 2012** TIME ZONE **+5**

TIME	POSITION (Lat. and Long.)	PRESENT WEATHER	VISIBILITY (N.M.)	WIND		SEA WAVE HEIGHT (Ft.)	SWELL WAVES		SEA WATER TEMP. °C	SEA LEVEL PRESSURE (mb)	TEMPERATURE °C	
				DIR. (True)	SPEED (Kts.)		DIR. (True)	HEIGHT (Ft.)			DRY BLUB	WET BULB
01												
02												
03												
04												
05												
06												
07												
08												
09												
10												
11												
12												
13												
14												
15												
16	32° 19.3' N 79° 06.7' W	9/8 SC	10	080	12	2-3	2-3	—	1024	—	—	—
17	32° 18.1' N 79° 03.3' W	7/8 SC	10	060	12	2-3	2-3	—	1024.5	11.5	9.5	—
18	32° 11.9' N 78° 52.9' W	5/8 SC, CB	10	070	10	1	350	2-3	—	1024.3	17.5	11.5
19	32° 05.0' N 78° 41.0' W	7/8 SC	10	050	10	1	—	—	—	1024.8	18.0	10.5
20	31° 57.5' N 078° 28.3' W	SC 3	10	030	7	1	—	—	—	1024.2	19.2	16.3
21	31° 56.7' N 078° 16.9' W	SC 2	10	040	5	1	—	—	—	1024.3	19.5	16.4
22	31° 43.5' N 078° 04.8' W	SC 2	10	050	5	1	—	—	—	1023.8	20.2	16.8
23	31° 37.3' N 077° 54.2' W	SC 2	10	060	7	1	—	—	—	1023.4	20.4	16.8
24	31° 30.7' N 077° 43.2' W	C, Ci 3	08	080	6	0-1	100°	4-6	22°C	1024.5	20.4	17.8

REMARKS

DECK LOG - WEATHER OBSERVATION SHEET

NOAA SHIP	DAY	DATE	TIME ZONE
RONALD H. BROWN	THURS	16 FEB 2012	+5

TIME	POSITION (Lat. and Long.)	PRESENT WEATHER	VISIBILITY (N.M.)	WIND		SEA WAVE HEIGHT (Ft.)	SWELL WAVES		SEA WATER TEMP. °C	SEA LEVEL PRESSURE (mb)	TEMPERATURE °C	
				DIR. (True)	SPEED (Kts.)		DIR. (True)	HEIGHT (Ft.)			DRY BLUB	WET BULB
01	31 23.9 N 077 31.8 W	CU 2	08	085	07	1	110°	4-6	22.0	1024.9	20.5	18.0
02	31 17.070 N 077 20.2 W	CU 3	08	088	09	1	110°	4-6	22.0	1024.1	20.0	18.0
03	31 10.414 N 077 09 W	CU 2	08	095	9.5	1	110°	4-6	21.0	1024	20.0	18.0
04	31 04.4 N 076 58.9 W	CU 2	10	080	10	1	110	2-4	21	1023.9	20.0	18.0
05	30 58.5 N 076 49.2 W	2/8 CU	10	090	9	1	-	-	20	1022.5	19.8	18.0
06	30 52.5 N 076 34.2 W	3/8 SC	10	100	9	1	-	-	20	1022.8	19.8	18.0
07	30 44.4 N 076 25.7 W	4/8 SC	10	090	10	1	-	-	20	1023.0	20.0	18.2
08	30 38.2 N 076 16.2 W	CU AC 6	12	085	8	1	100	2-4	20.9	1024.2	20.4	18.6
09	30 31.5 N 076 04.2 W	CU AC 4	12	090	8	1	100	2-4	21.0	1024.2	21.5	19.2
10	30 25.8 N 075 54.5 W	CU AC 2	12	110	8	1	100	2-4	21.0	1024.0	21.6	19.1
11	30 19.6 N 075 44.3 W	CU AC 2	12	120	8	1	090	2-4	21.1	1024.1	21.6	19.1
12	30 13.3 N 075 33.9 W	CU 4	12	104	7	1	100	2-4	21.0	1025	21.5	19.0
13	30 07.8 N 075 23.3 W	CU, AC, CI 7	12	100	06	0-1	010	3-4	21.0	1022.7	21.7	19.2
14	30 01.358 N 075 14.0 W	CU, AC, AS, CI 6	12	128	7	0-1	040	3-4	21.0	1022.0	22.0	19.7
15	30 01.3 N 075 14.0 W	CU, AC, AS, CI 6	10	126	9	0-1	040	3-4	21.0	1021.5	22.5	20.0
16	30 01.3 N 075 14.0 W	CU, AC, AS, CI 6	10	160	8	1	030	3-4	21.7	1021.7	21.7	19.7
17	30 02.1 N 075 12.0 W	CU, AC, AS, CI 7	10	165	09	0-1	030	3-4	21.6	1021.5	21.5	19.6
18	29 53.1 N 075 00.5 W	CU, AC, AS, CI 10	10	190	8	1	350	3-4	21.5	1020.7	20.5	19.5
19	29 47.6 N 074 51.4 W	AS 1	10	190	9	1	-	-	22.3	1020.7	20.7	19.5
20	29 46.7 N 074 40.3 W	AS 1	10	190	9	1	-	-	22.4	1020.7	20.7	19.5
21	29 34.5 N 074 30.2 W	AC 1	10	215	10	1	-	-	22.2	1020.7	21.2	19.2
22	29 28.1 N 074 20.2 W	AC 1	10	205	11	1-2	-	-	21.8	1020.1	21.4	19.2
23	29 21.9 N 074 10.2 W	AC 1	10	210	12	1-2	-	-	22.6	1020.1	21.6	19.0
24	29 05.5 N 073 54.5 W	AC 1	8	209	13.8	1-2	150	3-4	22.6	1019.4	21.2	19.5

REMARKS

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DECK LOG - WEATHER OBSERVATION SHEET

NOAA SHIP RONALD H. BROWN	DAY FRI	DATE 17 FEB 2012	TIME ZONE +5
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TIME	POSITION (Lat. and Long.)	PRESENT WEATHER	VISIBILITY (N.M.)	WIND		SEA WAVE HEIGHT (Ft.)	SWELL WAVES		SEA WATER TEMP. °C	SEA LEVEL PRESSURE (mb)	TEMPERATURE °C	
				DIR. (True)	SPEED (Kts.)		DIR. (True)	HEIGHT (Ft.)			DRY BULB	WET BULB
01	29° 08.4' N 073° 48.8' W	CU 2	8	214.2	12.0	1-2	150°	3-4	22.6	1018.5	21.5	19.5
02	29° 01.6' N 073° 38.1' W	CU 5	8	215.0	14.0	1-2	150°	3-4	22.6	1018.0	21.5	19.0
03	28° 54.8' N 073° 27.3' W	CU 3	8	215.0	17.0	2-3	150°	4-6	22.6	1017.0	21.5	19.0
04	28° 48.1' N 73° 16.6' W	CU 1	10	210	15	1-2	—	—	22.9	1017.5	21.7	14.0
05	28° 42.2' N 73° 07.0' W	CU 1	10	215	16	1-2	—	—	22.5	1017.3	21.5	14.0
06	28° 36.8' N 72° 55.5' W	CU 1	10	225	15	1-2	—	—	23.0	1017.6	22.0	19.5
07	28° 28.3' N 72° 45.3' W	CU 3	10	220	17	2-3	210°	4-6	22.9	1018.5	22.5	20.0
08	28° 20.4' N 072° 38.7' W	CU CS 3	12	230	15	2-3	230	4-6	23.0	1019.7	22.8	20.0
09	28° 13.9' N 072° 28.5' W	CU CS 3	12	220	15	2-3	240	4-6	22.9	1020.0	23.1	20.0
10	28° 07.4' N 072° 18.1' W	CU CS 3	12	220	15	2-3	240	4-6	23.0	1020.0	23.0	20.0
11	28° 00.8' N 072° 01.9' W	CU ACS 3	12	220	16	2-3	240	4-6	22.9	1019.9	23.2	19.6
12	27° 53.8' N 071° 50.8' W	CU AC 3	12	240.0	12	2-3	256	3-4	23.3	1019.5	23.9	20.0
13	27° 46.9' N 071° 40.9' W	CU SC AC 5	12	249.0	11.5	2-3	256	3-4	23.4	1018.4	23.8	19.9
14	27° 39.7' N 071° 28.9' W	CU SC AC 6	12	225.0	11.3	2-3	254	3-4	23.3	1017.2	23.5	20.0
15	27° 32.9' N 071° 18.2' W	CU, AC, AS 4	12	235	12	2-4	250	3-5	23.4	1018.2	23.7	19.8
16	27° 27.0' N 71° 08.9' W	CU, AC, AS 4	10	230	11	2-3	210	3-5	23.0	1017.7	23.5	19.5
17	27° 19.3' N 70° 56.7' W	CU, AC, AS 3	10	220	11	2-3	105	2-5	23.2	1018.4	22.9	19.7
18	27° 12.3' N 70° 45.9' W	CU, AS 2	10	215	13	2-3	250	3-5	23.1	1018.3	22.5	14.0
19	27° 05.8' N 70° 35.8' W	CU, AS 2	10	230	9	2-3	—	—	23.3	1016.7	22.5	14.5
20	26° 57.7' N 070° 25.6' W	CU AS 2	10	215	9	2-3	—	—	23.2	1019.7	22.2	19.1
21	26° 50.4' N 070° 11.7' W	CU AS 1	10	200	7	2-3	—	—	23.5	1019.4	22.2	19.1
22	26° 43.7' N 070° 01.4' W	AS 1	10	215	7	2-3	—	—	23.7	1019.0	22.1	19.0
23	26° 37.2' N 069° 51.3' W	AS 1	10	220	7	2-3	—	—	23.8	1018.9	22.1	18.9
24	26° 30.5' N 069° 40.7' W	CU 1	08	225	07	1-3	260	3-5	23.7	1018.7	21.7	18.8

REMARKS

Ø215 NOTE SWELL INCREASE TO 4-6 FT.

DECK LOG - WEATHER OBSERVATION SHEET

NOAA SHIP RONALD H. BROWN	DAY SATURDAY	DATE 18 FEB 2012	TIME ZONE +5
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TIME	POSITION (Lat. and Long.)	PRESENT WEATHER	VISIBILITY (N.M.)	WIND		SEA WAVE HEIGHT (ft.)	SWELL WAVES		SEA WATER TEMP. °C	SEA LEVEL PRESSURE (mb)	TEMPERATURE °C	
				DIR. (True)	SPEED (Kts.)		DIR. (True)	HEIGHT (ft.)			DRY BLUB	WET BULB
01	26° 29.9' N 069° 39.9' W	Cu ³	8	237	5.2	1-2	260	3-5	23.8	1017.9	22.0	18.5
02	26° 29.9' N 069° 39.9' W	Cu ²	8	255	6.1	1-2	260	3-5	23.7	1017.3	21.5	18.5
03	26° 29.9' N 069° 40.0' W	Cu ²	8	215	5	1-2	260	3-5	23.7	1017.5	21.5	18.5
04	26° 29.9' N 069° 39.9' W	-	10	230	8	1-2	-	-	23.8	1017.0	21.5	19.0
05	26° 30.0' N 069° 41.5' W	-	10	210	7	1-2	-	-	23.7	1016.7	21.8	19.0
06	26° 30.0' N 069° 53.4' W	Cu ²	10	200	7	1-2	180	3-5	23.8	1017.0	22.0	19.0
07	26° 29.9' N 070° 05.1' W	Cu ¹	10	210	7	1-2	190	3-5	23.5	1017.5	22.5	19.5
08	26° 29.9' N 070° 05.1' W	Cu ¹	12	220	7	1-2	080/170	3-5/2.4	23.6	1018.4	23.3	19.9
09	26° 29.9' N 070° 05.1' W	Cu ¹	12	230	5	1-2	070	3-5	23.6	1019.2	24.2	20.2
10	26° 29.9' N 070° 05.1' W	CuAc ¹	12	210	5	1-2	070	3-5	23.7	1019.6	25.1	20.9
11	26° 29.9' N 070° 05.1' W	CuAc ¹	12	225	8	1-2	070	3-5	23.8	1019.4	25.4	21.0
12	26° 29.9' N 070° 05.1' W	Cu,Ac ²	12	220	08	1-2	030	3-5	23.9	1019.8	25.3	21.0
13	26° 29.8' N 070° 16.4' W	Cu,Ac ²	12	210	08	1-2	120	4-6	23.8	1017.3	24.0	20.2
14	26° 29.7' N 070° 29.4' W	Cu ²	12	198	07	1-2	120	4-6	23.8	1016.8	23.8	20.3
15	26° 29.8' N 070° 31.4' W	Cu ³	12	224	04	1-2	120	3-5	23.9	1017	25.0	21.8
16	26° 29.7' N 070° 32.2' W	Cu ⁴	10	200	8	1-2	190	3-5	23.8	1016.8	24.3	20.5
17	26° 30.0' N 070° 30.9' W	Cu,Ac,Ci,Cs	10	210	05	1-2	190	3-5	23.8	1017.1	23.3	20.0
18	26° 29.8' N 070° 31.0' W	Cu,Ac,Ci	10	200	5	1-2	290	3-5	23.8	1017.1	22.5	20.0
19	26° 29.9' N 070° 29.9' W	-	10	190	6	1-2	-	-	23.8	1017.3	22.2	19.5
20	26° 29.9' N 070° 29.9' W	Cu ²	10	195	6	1-2	-	-	23.7	1018.4	22.3	19.5
21	26° 29.9' N 070° 29.9' W	Cu ²	10	195	7	1-2	-	-	23.7	1018.9	22.8	20.0
22	26° 29.9' N 070° 29.9' W	Cu ²	10	165	6	1-2	-	-	23.7	1018.9	22.6	19.4
23	26° 30.0' N 070° 33.8' W	Cu ²	10	180	6	1-2	-	-	23.6	1019.3	22.9	19.8
24	26° 29.982' N 070° 47.1' W	Cu ²	08	177	9	1-2	155	2-4	23.1	1017.5	22.5	19.2

REMARKS

DECK LOG - WEATHER OBSERVATION SHEET

NOAA SHIP	DAY	DATE	TIME ZONE
RONALD H. BROWN	SUNDAY	19 FEB 2012	+5

TIME	POSITION (Lat. and Long.)	PRESENT WEATHER	VISIBILITY (N.M.)	WIND		SEA WAVE HEIGHT (ft.)	SWELL WAVES		SEA WATER TEMP. °C	SEA LEVEL PRESSURE (mb)	TEMPERATURE °C	
				DIR. (True)	SPEED (Kts.)		DIR. (True)	HEIGHT (ft.)			DRY BLUB	WET BULB
01	26° 30.0' N 070° 59.9' W	Cu 2	08	169	10	1-2	155	2-4	23.2	1017.5	22.0	19.5
02	26° 30.0' N 070° 59.9' W	Cu 3	08	185	9	1-2	177	2-4	23.1	1017.0	22.0	19.5
03	26° 30.0' N 070° 59.9' W	Cu 5	08	187	9	1-2	174	2-4	23.1	1016.5	22.0	19.5
04	26° 30.0' N 070° 59.9' W	-	10	180	8	1-2	-	-	23.2	1016.8	22.5	19.5
05	26° 30.0' N 070° 59.9' W	-	10	195	10	1-2	-	-	23.1	1017.0	22.5	19.5
06	26° 30.0' N 071° 30.1' W	Cu, As 3	10	180	10	1-2	110	3-5	23.7	1016.6	22.5	20.0
07	26° 29.9' N 071° 30.1' W	Cu, As 3	10	180	9	1-2	110	3-5	23.9	1017.2	22.5	19.5
08	26° 29.9' N 071° 30.1' W	CuCs 4	12	185	12	2-3	010	3-5	23.6	1017.4	23.9	20.6
09	26° 29.9' N 071° 30.1' W	CuCs 6	12	185	14	2-4	010	3-5	23.6	1018.0	24.2	20.6
10	26° 29.9' N 071° 30.1' W	CuCs 5	12	195	12	2-4	010	3-5	23.7	1018.0	25.0	21.3
11	26° 29.9' N 071° 30.1' W	CuCs 5	12	200	12	2-4	010	2-4	23.8	1017.8	25.2	21.4
12	26° 29.8' N 071° 30.0' W	CuAc 7	12	195	14	2-4	100	2-4	24.0	1015.5	24.8	21.5
13	26° 29.9' N 071° 40.2' W	CuAc 7	12	195	14	2-4	100	2-4	24.0	1016.5	24.0	21.5
14	26° 30.0' N 071° 52.4' W	CuAc 7	12	191	12	2-4	100	3-5	24.0	1015.7	24.0	21.5
15	26° 30.0' N 071° 59.9' W	CuAc 7	12	185	12	2-4	110	3-5	24	1015.0	25.0	22.0
16	26° 30.0' N 071° 59.9' W	CuAcCi 7	10	195	14	2-4	120	3-5	24.1	1014.8	24.5	22.2
17	26° 30.0' N 071° 59.9' W	CuAcCi 7	10	190	15	2-4	190	3-5	24.1	1014.8	24.0	22.2
18	26° 30.0' N 071° 59.9' W	CuAcCi 7	10	200	15	2-4	190	3-5	23.3	1015.0	23.5	21.5
19	26° 29.9' N 072° 04.0' W	-	10	170	17	2-4	-	-	24.0	1014.7	23.5	22.0
20	26° 30.0' N 072° 19.0' W	CuAc 3	10	175	20	2-4	-	-	24.1	1014.6	23.9	22.1
21	26° 30.0' N 072° 22.8' W	CuAc 3	10	190	19	3-5	-	-	24.1	1014.9	24.1	22.1
22	26° 30.0' N 072° 22.8' W	CuAc 4	10	200	16	2-4	-	-	24.1	1015.1	23.9	22.2
23	26° 29.9' N 072° 22.8' W	CuAc 3	10	220	14	2-4	-	-	24.1	1014.8	24.1	22.7
24	26° 29.9' N 072° 22.8' W	CuAc 2	8	220	17	2-4	-	-	24.1	1014.0	24.9	21.9

REMARKS

24.1 24.0

DECK LOG - WEATHER OBSERVATION SHEET

NOAA SHIP RONALD H. BROWN	DAY MON	DATE 20 FEB 2012	TIME ZONE +5
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TIME	POSITION (Lat. and Long.)	PRESENT WEATHER	VISIBILITY (N.M.)	WIND		SEA WAVE HEIGHT (ft.)	SWELL WAVES		SEA WATER TEMP. °C	SEA LEVEL PRESSURE (mb)	TEMPERATURE °C	
				DIR. (True)	SPEED (Kts.)		DIR. (True)	HEIGHT (ft.)			DRY BLUB	WET BULB
01	26° 29.9' N 072 29.4' W	Cu 4	8	200	15	3-6	180	4-6	23.8	1013.9	24.0	22.0
02	26 30.0 N 072 42.4 W	Cu 2	8	205	16	4-6	—	—	24.4	1013.0	24.0	22.0
03	026 30.0 N 072 45.9 W	Ac 1	8	200	17	4-6	—	—	24.4	1013.0	24.0	22.0
04	26 29.9 N 072 45.9 W	—	10	230	22	3-5	—	—	24.4	1014.0	24.0	22.0
05	26 29.9 N 072 45.9 W	—	10	230	18	3-5	—	—	24.4	1013.9	24.5	22.5
06	26 29.9 N 072 45.9 W	Cu, Ac 3	10	240	19	3-5	170	4-6	24.4	1013.6	24.5	22.5
07	26 30.0 N 072 47.2 W	Cu, Ac 4	10	230	21	3-5	160	4-6	24.4	1013.5	24.5	22.5
08	26 30.0 N 073 07.9 W	Cu Ac 5	10	230	16	3-5	160	4-6	24.1	1014.1	24.9	23.2
09	26 29.9 N 073 07.9 W	Cu Ac 6	10	240	19	3-5	160	4-6	24.5	1015.3	25.2	23.6
10	26 29.9 N 073 07.9 W	Cu Ac 6	10	240	16	3-5	—	—	24.5	1015.2	25.1	23.2
11	26 29.9 N 073 07.9 W	Cu Ac 6	10	325	19	2-4	250	2-4	24.5	1015.7	23.8	22.1
12	26 29.8 N 073 07.8 W	Cu Ac, Ci 6	10	316	17.6	4-6	290	4-6	24.5	1016.1	24.0	22.0
13	26 29.9 N 073 12.2 W	Cu, Ac, Ci 4	12	310	19	4-6	—	—	24.6	1015.8	24.1	21.8
14	26 29.9 N 073 23.5 W	Cu, Ci 2	12	315	18	4-6	—	—	24.6	1015.6	24.1	19.9
15	26 29.9 N 073 29.9 W	Cu, Ac, Ci 6	12	334	21	4-6	—	—	24.6	1015.8	23.7	20.7
16	26 29.9 N 073 29.9 W	Cu, Ac, Ci 7	10	330	19	4-6	190	4-6	24.7	1016.4	22.8	19.5
17	26 29.9 N 073 29.9 W	Cu, Ac, Ci 7	10	340	20	4-6	190	4-6	24.7	1017.0	22.7	19.7
18	26 29.9 N 073 29.9 W	Cu, Ac, Ci 7	10	350	20	4-6	190	4-6	24.6	1017.3	21.5	18.5
19	26 29.9 N 073 37.2 W	—	10	350	18	4-6	—	—	24.7	1018.0	21.5	18.0
20	26 30.0 N 073 43.7 W	Cu Ac 3	10	356	17	4-6	—	—	24.7	1019.2	21.0	16.2
21	26 30.0 N 073 51.8 W	Cu Ac 5	10	350	15	4-6	—	—	24.7	1020.4	20.4	16.2
22	26 30.0 N 073 51.8 W	Ac 6	10	000	19	4-6	—	—	24.7	1020.9	20.6	16.2
23	26 30.0 N 073 51.8 W	Ac 7	10	350	4	2-4	—	—	24.7	1021.1	20.6	16.3
24	26 30.0 N 073 51.8 W	Cu, Ac, Ac 8	08	357	16	4-6	350	4-6	24.7	1021.0	20.3	15.9

REMARKS

1045 - LT RAIN AT SHIP

DECK LOG - WEATHER OBSERVATION SHEET

NOAA SHIP RONALD H. BROWN	DAY TUESDAY	DATE 21 FEB 12	TIME ZONE +5
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TIME	POSITION (Lat. and Long.)	PRESENT WEATHER	VISIBILITY (N.M.)	WIND		SEA WAVE HEIGHT (Ft.)	SWELL WAVES		SEA WATER TEMP. °C	SEA LEVEL PRESSURE (mb)	TEMPERATURE °C	
				DIR. (True)	SPEED (Kts.)		DIR. (True)	HEIGHT (Ft.)			DRY BLUB	WET BULB
01	26 29.3' N 074 00.4' W	CuAu ⁸	08	004	18.5	4-6	350	4-6	24.7	1020.9	20.5	16.5
02	26 29.9' N 074 13.9' W	CuAu ⁷	08	001	11.2	4-6	350	4-6	24.6	1020.0	20.0	16.5
03	26 30.0' N 074 13.9' W	CuAu ⁷	08	022	16.5	4-6	350	4-6	24.6	1020.0	20.0	16.5
04	26 30.0' N 074 14.0' W	CuAu ⁷	10	025	23	4-6	350	4-6	24.7	1020.0	20.6	16.5
05	26 30.0' N 074 14.0' W		0	VAR	LT	4-6	350	4-6	24.7	1020.3	21.0	16.8
06	26 30.1' N 074 21.1' W	CuAc ⁷	10	050	10	4-6	220	4-6	24.6	1021.0	21.5	16.5
07	26 30.0' N 074 21.0' W	CuAc ⁷	10	050	16	4-6	190	4-6	24.0	1021.5	21.5	16.5
08	26 30.0' N 074 31.1' W	CuAc ⁶	12	045	13	3-5	180	4-6	24.0	1022.6	21.6	16.9
09	26 30.0' N 074 31.1' W	CuAcCs ⁶	12	075	18	4-6	180	4-6	24.1	1022.9	22.3	16.2
10	26 30.0' N 074 31.1' W	CuAcCs ⁴	12	070	12	3-5	180	6-9	24.1	1022.1	23.0	17.7
11	26 30.0' N 074 46.8' W	CuAcCs ⁴	12	060	07	3-5	180	6-9	24.2	1022.8	23.3	18.1
12	26 30.8' N 074 48.1' W	CuAcCs ⁶	12	060	13	2-3	320	5-7	24.2	1022.6	23.1	17.9
13	26 30.8' N 074 48.1' W	CuAcCs ⁶	12	039	8	2-3	320	6-8	24.2	1021.6	22.5	18.5
14	26 30.1' N 074 48.0' W	CuAcCs ⁶	12	047	6	2-3	320	6-8	24.3	1021.5	22.5	18.5
15	26 30.0' N 074 48.1' W	CuAc	12	050	8	1-2	000	6-8	24.4	1022.6	23.2	19.9
16	26 29.9' N 074 52.8' W	CuAc ⁵	10	020	8	1-2	350	8-10	24.4	1020.8	22.5	19.5
17	26 30.0' N 075 05.0' W	CuAcCs ⁶	12	045	09	1-3	350	8-10	24.4	1021.1	22.1	18.9
18	26 30.0' N 075 07.9' W	CuAcCs ⁶	10	040	10	1-2	350	8-10	24.4	1021.0	21.5	18.5
19	26 30.0' N 075 04.9' W	CuAcCs ⁶	10	030	8	1-2	-	-	24.4	1021.1	21.0	18.5
20	26 30.0' N 075 05.0' W	CuAcCs ⁶	10	040	7	1-2	-	-	24.3	1021.2	21.0	18.5
21	26 30.0' N 075 16.2' W	CuAcCs ⁶	10	030	9	1-2	-	-	24.2	1021.9	21.8	19.0
22	26 30.0' N 075 18.0' W	CuAc ⁵	8	030	10	2-4	-	-	24.2	1022.0	21.2	18.8
23	26 30.0' N 075 18.0' W	Ac ³	8	050	9	2-4	-	-	24.2	1022.2	21.3	19.2
24	26 30.0' N 075 17.997	CuAc ²	8	089	8	2-4	-	-	24.1	1021.5	21.5	19.5

REMARKS

DECK LOG - WEATHER OBSERVATION SHEET

NOAA SHIP RONALD H. BROWN	DAY WED	DATE 22 FEB 2012	TIME ZONE +5
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TIME	POSITION (Lat. and Long.)	PRESENT WEATHER	VISIBILITY (N.M.)	WIND		SEA WAVE HEIGHT (Ft.)	SWELL WAVES		SEA WATER TEMP. °C	SEA LEVEL PRESSURE (mb)	TEMPERATURE °C	
				DIR. (True)	SPEED (Kts.)		DIR. (True)	HEIGHT (Ft.)			DRY BLUB	WET BULB
01	26 30.0 N 075 22.8 W	CuAc ³	8	079	3	2-4	220	4-6	22.8	1021.0	21.2	19.0
02	26 29.9 N 075 30.0 W	Cu ¹	8	005	4	2-4	100	3-5	22.7	1020.0	21	19
03	26 29.9 N 075 30.0 W	Cu ¹	8	017	5	2-4	100	3-5	22.6	1020.0	21	19
04	26 29.4 N 075 30.0 W	—	10	020	6	1-2	—	—	22.6	1020.0	20.5	19.0
05	26 29.9 N 075 30.0 W	—	10	040	2	1	—	—	22.6	1019.0	20.2	18.5
06	26 28.0 N 075 42.4 W	Cu ¹	10	LT	VAR	<1	000	8-10	22.7	1019.3	20.5	19.0
07	26 30.0 N 075 42.4 W	Cu ¹	10	LT	VAR	<1	000	8-10	22.7	1019.3	20.5	19.0
08	26 30.0 N 075 42.4 W	CuAc ¹	12	LT	VAR	<1	220	8-10	22.8	1020.2	23.3	20.6
09	26 30.0 N 075 42.4 W	CuAc ⁴	12	LT	VAR	<1	220	8-10	22.8	1021.1	23.1	20.0
10	26 30.0 N 075 42.7 W	CuAc ⁴	12	LT	VAR	<1	220	8-10	22.9	1020.7	23.8	20.9
11	26 30.174 N 075 54.044 W	Ac ²	12	LT	VAR	<1	210	6-8	23.0	1020.3	24.2	21.1
12	26 30.1 N 075 54.0 W	CuAc ³	12	LT	VAR	<1	040	6-8	23.0	1017.5	25.5	22.0
13	26 30.2 N 075 54.0 W	CuAcCi ⁴	12	LT + VAR	<1	340	6-8	23.1	1018.7	26.8	22.9	
14	26 30.2 N 075 54.0 W	Cu, Ac, As, Ci ⁶	12	LT + VAR	<1	320	6-8	23.0	1018.2	27.0	22.5	
15	26 30.2 N 075 54.0 W	Cu, Ac, Ci ⁴	12	LT + VAR	<1	320	6-8	23.0	1017.6	26.9	22.4	
16	26 30.0 N 076 05.2 W	Cu, Ac, Ci ⁴	10	LT	VAR	<1	040	6-8	22.3	1017.3	24.0	20.0
17	26 30.1 N 076 05.2 W	Cu, Ac, Ci, Cs ⁶	10	140	08	0-1	040	6-8	23.2	1016.9	22.8	19.6
18	26 30.4 N 076 05.7 W	Cu, Ac, Ci ³	10	150	8	1	340	6-8	23.1	1016.7	22.5	19.5
19	26 30.4 N 076 05.7 W	—	10	LT	VAR	<1	—	—	23.0	1016.7	22.2	19.5
20	26 30.0 N 076 08.5 W	—	10	160	10	1-2	—	—	23.6	1016.9	22.2	19.5
21	26 30.0 N 076 13.0 W	Ac ¹	10	190	8	1	—	—	23.0	1017.2	22.1	19.2
22	26 30.0 N 076 13.1 W	Cu ¹	10	LT	VAR	1	~225	~6-8	22.9	1017.7	22.2	19.4
23	26 30.0 N 076 13.1 W	Cu ¹	10	200	7	1	~225	~6-8	22.9	1017.6	22.1	19.5
24	26 30.0 N 076 13.1 W	Ac ¹	8	210	10	1	220	6-8	22.8	1016.5	22.0	19.0

REMARKS
*22 - SWELL ESTIMATED BY OBSERVING RADAR, MOTION OF THE VSL, AND USING NIGHT VISION GOGGLES.

DECK LOG - WEATHER OBSERVATION SHEET

NOAA SHIP RONALD H. BROWN	DAY THURS	DATE 23 FEB 2012	TIME ZONE +5
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TIME	POSITION (Lat. and Long.)	PRESENT WEATHER	VISIBILITY (N.M.)	WIND		SEA WAVE HEIGHT (Ft.)	SWELL WAVES		SEA WATER TEMP. °C	SEA LEVEL PRESSURE (mb)	TEMPERATURE °C	
				DIR. (True)	SPEED (Kts.)		DIR. (True)	HEIGHT (Ft.)			DRY BLUB	WET BULB
01	26° 29.955' N 076° 20.752' W	Ac 1	8	206	14	<1	220	6-8	22.8	1016.5	22.0	19.0
02	26° 30.0' N 076° 20.8' W	CuAc 3	8	228	14	1-2	220	6-8	22.8	1016.5	22.0	19.0
03	26° 30.0' N 076° 20.8' W	CuAc 7	8	235	13	2-4	220	6-8	22.8	1016.5	22.5	20.0
04	26° 30.0' N 076° 20.8' W	—	10	210	9	1-2	—	—	22.8	1015.9	22.5	20.0
05	26° 30.0' N 076° 20.8' W	—	10	180	9	1-2	—	—	22.8	1015.4	22.5	20.0
06	26° 30.0' N 076° 28.8' W	CuAcCi 3	10	190	16	1-2	190	6-8	22.8	1016.1	22.5	20.0
07	26° 30.0' N 076° 28.8' W	CuAcCi 3	10	190	12	1-2	190	6-8	23.7	1016.5	22.5	20.0
08	26° 30.0' N 076° 28.8' W	CuAcCi 3	12	200	14	2-4	240	6-8	23.5	1017.3	24.1	21.3
09	26° 30.0' N 076° 28.8' W	CuAcCi 3	12	195	15	2-4	240	4-6	23.1	1017.3	24.6	21.5
10	26° 30.0' N 076° 33.8' W	CuAcCi 4	12	205	16	2-4	240	4-6	24.3	1017.5	24.6	21.5
11	26° 30.0' N 076° 33.8' W	CuAcCi 4	12	195	16	3-5	240	4-6	24.4	1017.6	25.1	22.1
12	26° 30.0' N 076° 33.8' W	CuAcCi 7	12	200	15	3-5	210	4-6	24.4	1017.0	25.5	22.5
13	26° 30.0' N 076° 33.8' W	CuCi 6	12	208	17	3-5	190	4-6	24.5	1016.5	25.5	22.5
14	26° 30.0' N 076° 33.1' W	CuCi 5	12	203	16	3-5	210	4-6	24.6	1016.5	25.4	22.5
15	26° 30.4' N 076° 39.2' W	CuCiAc 3	12	206	13	3-5	200	4-6	24.4	1016.0	27.0	23.0
16	26° 30.4' N 076° 39.2' W	CuAcCi 3	10	200	14	3-5	200	4-6	24.6	1015.7	25.5	22.5
17	26° 30.5' N 076° 39.2' W	CuCi 3	10	205	13	2-4	200	4-6	24.6	1016.1	25.7	23.0
18	26° 30.4' N 076° 39.3' W	CuCi 3	10	188	13	2-4	200	4-6	24.5	1016.1	24.8	23.1
19	26° 29.955' N 076° 44.421' W	CuCi 3	10	200	11	2-4	—	—	24.3	1016.5	23.5	22.5
20	26° 30.0' N 076° 45.0' W	Cu 2	10	200	12	2-4	—	—	24.1	1017.3	23.9	22.2
21	26° 30.0' N 076° 45.0' W	Cu 2	10	200	10	2-4	—	—	24.1	1017.5	24.0	22.5
22	26° 30.9' N 076° 49.2' W	Cu 2	10	190	11	2-4	—	—	23.24	1017.5	24.0	22.5
23	26° 31.0' N 076° 49.9' W	Cu 1	10	190	11	2-4	—	—	24.1	1017.4	24.0	22.5
24	26° 31.0' N 076° 50.2' W	Cu 2	8	182	12	2-4	070	4-6	24.1	1016.0	24.0	22.5

REMARKS

060

DECK LOG - WEATHER OBSERVATION SHEET

NOAA SHIP RONALD H. BROWN	DAY FRI	DATE 24 FEB 2012	TIME ZONE F5
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TIME	POSITION (Lat. and Long.)	PRESENT WEATHER	VISIBILITY (N.M.)	WIND		SEA WAVE HEIGHT (Ft.)	SWELL WAVES		SEA WATER TEMP. °C	SEA LEVEL PRESSURE (mb)	TEMPERATURE °C	
				DIR. (True)	SPEED (Kts.)		DIR. (True)	HEIGHT (Ft.)			DRY BLUB	WET BULB
01	26° 31' 50.5" N 076° 53' 50.4" W	CLEAR	8	183	10	2-4	210	2-4	24.1	1017.0	24.0	22.5
02	26° 31.4' N 076° 51.1' W	Ac 1	8	182	12	2-4	210	2-4	24.1	1017.0	24.0	22.5
03	26° 30.7' N 076° 37.9' W	Cu Ac 3	8	176	12	2-4	200	2-4	24.3	1017.0	24.0	22.5
04	26° 30.577' N 76° 25.61' W	-	10	160	12	2-4	-	-	22.9	1016.4	23.2	22.5
05	26° 30.155' N 76° 12.609' W	-	10	160	12	2-4	-	-	23.5	1016.7	23.5	22.5
06	26° 29.6' N 075° 58.4' W	Cu Ac 4	10	165	14	2-4	-	-	24.1	1017.2	23.5	22.5
07	26° 28.99' N 075° 47.78' W	Cu Ac 4	10	170	16	2-4	270	2-4	24.3	1017.8	24.0	22.0
08												
09												
10	26° 30.8' N 075° 46.1' W	Cu Ac 2	12	170	17	2-4	-	-	23.2	1019.7	24.5	22.1
11	26° 30.1' N 075° 44.8' W	Cu Ac 2	12	170	17	2-4	-	-	23.7	1019.0	24.9	22.2
12	26° 29.378' N 075° 43.4' W	Cu Ac 1	12	170	17	2-4	180	2-4	24.0	1019.5	25.0	23.0
13	26° 29.7' N 075° 42.2' W	Cu Ac 3	12	181	17	2-4	180	2-4	24.2	1019.5	25.0	23.0
14	26° 28.7' N 075° 41.6' W	Cu 5	12	178	14	2-4	180	2-4	24.2	1018.5	26.0	23.0
15	26° 28.9' N 075° 40.4' W	Cu 5	12	174	13	2-4	180	2-4	24.2	1018.0	25.5	23.0
16	26° 30.519' N 075° 45.070' W	Cu 5	10	165	15	2-4	180	3-5	23.8	1017.2	25.5	23.0
17	26° 27.4' N 075° 45.2' W	Cu, Ci 3	10	195	09	2-3	180	3-5	24.2	1018.2	25.8	23.0
18	26° 29.9' N 075° 42.2' W	Cu, Ci 3	10	180	9	2-3	155	4-6	24.1	1018.2	24.5	22.5
19	26° 29.9' N 075° 42.2' W	-	10	180	8	2-3	-	-	24.2	1018.2	24.0	22.5
20	26° 30.0' N 075° 42.2' W	Cu 1	10	187	9	2-3	-	-	24.2	1019.2	24.0	22.2
21	26° 30.0' N 075° 42.2' W	Cu 1	10	180	11	2-3	-	-	24.2	1019.2	24.0	22.3
22	26° 30.0' N 075° 42.2' W	Cu 1	10	173	12	2-3	-	-	24.1	1019.0	23.9	22.4
23	26° 30.0' N 075° 42.2' W	Cu 1	10	179	11	2-3	-	-	24.1	1019.0	24.0	22.8
24	26° 30.0' N 075° 42.2' W	Cu 2	08	180	12	2-3	210	3-5	24.0	1018.4	23.8	22.6

REMARKS

DECK LOG - WEATHER OBSERVATION SHEET

NOAA SHIP RONALD H. BROWN	DAY +5	DATE 25 FEB 12	TIME ZONE +5
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TIME	POSITION (Lat. and Long.)	PRESENT WEATHER	VISIBILITY (N.M.)	WIND		SEA WAVE HEIGHT (Ft.)	SWELL WAVES		SEA WATER TEMP. °C	SEA LEVEL PRESSURE (mb)	TEMPERATURE °C	
				DIR. (True)	SPEED (Kts.)		DIR. (True)	HEIGHT (Ft.)			DRY BLUB	WET BULB
01	26° 30.0' N 075° 42.2' W	Cu 2	08	190	10	2-3	200	3-5	24.1	1018.3	23.7	22.2
02	26° 30.0' N 075° 42.2' W	Cu 2	08	200	09	2-3	200	3-5	24.0	1018.2	23.6	22.2
03	26° 30.0' N 075° 42.2' W	Cu 1	08	215	08	1-3	200	3-5	24.1	1018.0	23.7	22.3
04	26° 30.0' N 075° 42.2' W	CL	10	200	10	1-3	200	—	24.1	1018.0	23.5	22.4
05	26° 30.0' N 075° 42.2' W	CL	10	200	10	1-3	—	—	24.1	1017.5	23.5	22.0
06	26° 21.7' N 075° 42.4' W	Cu 1	10	210	10	1-3	130	2-4	24.1	1018.0	24.0	22.0
07	26° 21.8' N 075° 42.5' W	Cu 1	10	210	10	1-3	130	2-4	24.1	1018.7	24.0	22.0
08	26° 21.8' N 075° 42.5' W	Cu 1	12	200	11	1-3	140	2-4	24.6	1020.0	25.1	22.5
09	26° 23.9' N 075° 42.2' W	Cu 1	12	205	09	1-3	140	2-4	24.2	1020.0	25.0	22.5
10	26° 27.3' N 075° 42.5' W	Cu 1	12	240	09	1-3	140	2-4	24.3	1021.2	25.7	23.2
11	26° 27.3' N 075° 42.2' W	Cu 1	12	240	08	1-3	140	2-4	24.3	1021.5	26.0	23.5
12	26° 29.4' N 075° 50.0' W	Ac, As, Ci 2	12	235	07	1-2	140	3-4	24.4	1020.8	27.5	24.4
13	26° 30.3' N 075° 49.6' W	As, Ci 2	12	230	06	1-2	140	3-4	24.4	1020.1	29.0	25.3
14	26° 31.2' N 075° 49.4' W	As, Ci 4	12	192	03	1-2	140	3-4	24.5	1019.3	28.5	25
15	26° 32.2' N 075° 49.1' W	Cu, Ci 3	12	240	08	1-3	140	3-4	24.5	1019.3	27.8	24.1
16	26° 32.8' N 075° 48.8' W	Cu, Ci 4	12	234	06	1-3	140	3-4	24.5	1019.1	27.8	24.2
17	26° 32.5' N 075° 55.3' W	Cu, Ci 4	12	245	07	1-3	140	3-4	23.3	1019.4	26.7	23.9
18	26° 30.2' N 076° 04.4' W	Cu, Ci 6	12	046	11	1-3	000	3-4	23.4	1019.5	24.1	22.5
19	26° 29.9' N 076° 05.3' W	—	10	020	17	2-4	—	—	23.4	1020.6	23.5	20.5
20	26° 30.0' N 076° 05.4' W	As 8	10	022	18	3-5	—	—	23.2	1019.9	22.2	20.0
21	26° 30.0' N 076° 05.4' W	As 8	10	030	19	3-5	—	—	23.2	1022.7	22.2	20.2
22	26° 30.1' N 076° 05.5' W	Ac 3	10	035	19	3-5	—	—	23.2	1022.9	22.2	19.9
23	26° 30.0' N 076° 09.6' W	Ac 3	10	090	11	3-5	—	—	23.1	1023.0	22.3	20.0
24	26° 29.723' N 076° 14.4' W	Ac 5	8	070	13	3-5	010	3-4	23.3	1022.5	22.5	20.5

REMARKS

DECK LOG - WEATHER OBSERVATION SHEET

NOAA SHIP **RONALD H. BROWN** DAY **SUN** DATE **26 FEB 2012** TIME ZONE **+5**

TIME	POSITION (Lat. and Long.)	PRESENT WEATHER	VISIBILITY (N.M.)	WIND		SEA WAVE HEIGHT (Ft.)	SWELL WAVES		SEA WATER TEMP. °C	SEA LEVEL PRESSURE (mb)	TEMPERATURE °C	
				DIR. (True)	SPEED (Kts.)		DIR. (True)	HEIGHT (Ft.)			DRY BLUB	WET BULB
01	26 29.4 076 28.2	Ac 3	8	072	17kts	3-5	010	2-4	24.1	1022.5	22.0	20.0
02	26 29.4 076 28.2	CuAc 7	8	050	15	3-5	010	4-6	24.0	1022.0	22.0	20.0
03	26 29.4 076 28.1	Cu 8	8	060	18	4-6	010	4-6	24.0	1022.0	22.0	20.0
04	26 28.4 076 28.1	-	-	080	11	4-6	-	-	24.0	1022.6	22.0	20.5
05	26 28.7 N 076 28.1 W	-	-	080	14	4-6	-	-	24.1	1022.8	22.0	20.5
06	26 28.9 N 076 27.7 W	Sc 8	10	060	18	4-6	-	-	24.0	1023.5	21.5	20.0
07	26 28.6 N 076 28.1 W	Sc 8	10	050	21	4-6	050	4-6	24.0	1023.5		
08	26 28.8 N 076 38.5 W	Sc 8	10	060	20	4-6	050	4-6	20.6	1025.4	21.3	19.8
09	26 27.8 N 076 40.0 W	Sc 8	10	050	20	4-6	050	4-6	23.8	1025.2	21.5	20.0
10												
11												
12	26 27.9 076 43.4	CuAcCi 7	12	081	23	6-8	022	6-8	24.0	1025	23.0	22.0
13	26 26.4 076 43.4	CuAcCi 7	12	077	20	6-8	020	6-8	23.8	1024.5	23.0	20.0
14	26 29.08 N 076 41.3 W	CuAcCi 7	12	075	22	6-8	021	6-8	23.8	1023.9	22.5	20.0
15	26 29.4 N 076 40.4 W	CuAcCi 7	12	084	18	6-8	020	6-8	23.8	1024.0	22.5	20.0
16	26 29.2 N 076 39.4 W	CuAcCi 7	12	067	17	6-8	020	6-8	23.8	1024.3	22.5	20.3
17	26 28.9 N 076 37.4 W	Cu, As, Ci 8	10	070	17	6-8	020	6-8	23.9	1024.9	22.0	20.0
18	26 26.9 N 076 40.7 W	Cu, As, Ci 8	10	070	19	6-8	-	-	23.8	1025.0	23.0	20.5
19	26 25.8 N 076 42.6 W	Cu, As, Ci 6	10	070	20	6-8	-	-	23.8	1025.2	23.0	20.5
20	26 22.9 N 076 44.5 W	CuAc 6	10	055	22	6-8	-	-	24.1	1025.5	23.0	20.8
21	26 17.0 N 076 46.1 W	CuAc 7	08	060	23	6-8	-	-	24.0	1025.2	23.0	21.0
22	26 09.9 N 076 48.1 W	CuAc 7	08	060	21	6-8	-	-	24.2	1025.0	23.4	21.3
23	26 04.2 N 076 49.7 W	CuAc 6	08	075	21	6-8	-	-	24.4	1025.0	23.7	21.8
24	25 57.6 N 076 51.4 W	Cu 5	08	077	21	6-8	100	6-8	24.1	1025.0	23.5	21.5

REMARKS

DECK LOG - WEATHER OBSERVATION SHEET

NOAA SHIP RONALD H. BROWN	DAY MON	DATE 27 FEB 2012	TIME ZONE +5
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TIME	POSITION (Lat. and Long.)	PRESENT WEATHER	VISIBILITY (N.M.)	WIND		SEA WAVE HEIGHT (Ft.)	SWELL WAVES		SEA WATER TEMP. °C	SEA LEVEL PRESSURE (mb)	TEMPERATURE °C	
				DIR. (True)	SPEED (Kts.)		DIR. (True)	HEIGHT (Ft.)			DRY BLUB	WET BULB
01	25 50.6' N 076 53.4' W	Cu 3	8	089	22	6-8	100	6-8	24.1	1024.5	23.5	21.0
02	25 47.6' N 077 00.8' W	Cu 5	8	083	17	4-6	100	4-6	24.3	1024.9	24.0	22.5
03	25 46.3' N 077 06.2' W	Cu 4	8	089	07	2-4	100	4-6	24.4	1024.5	24.0	22.5
04	25 46.8' N 077 11.7' W	Cu 4	10	090	14	3-5	-	-	24.4	1024.1	24.0	22.0
05	25 49.5' N 077 16.1' W	Cu 4	10	106	10	2-4	-	-	24.3	1024.4	24.0	22.0
06	25 53.0' N 077 18.9' W	Cu 5	10	110	13	2-4	-	-	24.4	1024.7		
07												
08	25 53.6' N 077 19.6' W	Cu 6	10	080	16	2-4	110	2-4	24.3	1025.2	25.0	22.5
09	25 52.6' N 077 19.6' W	Cu 6	10	090	16	2-4	100	2-4	24.3	1025.2	25.0	22.5
10	25 46.4' N 077 06.4' W	Cu 6	10	094	17	3-5	250	3-5	24.5	1026.3	24.9	22.2
11	25 53.1' N 077 01.4' W	Cu Ac As 6	10	094	22	2-4	250	3-5	24.2	1025.7	24.8	22.4
12	26 04.1' N 076 56.5' W	Cu, Sc, As, Ci 7	12	095	18	4-5	060	4-6	24.2	1025.3	24.8	22.2
13	26 11.42' N 076 51.77' W	Cu Ac Ci 7	12	091	18	4-5	060	4-6	24.2	1025.0	24.5	22.5
14	26 25.1' N 076 47.1' W	Cu Ac Ci 7	12	091	18	4-5	060	4-6	24.1	1024.9	24.0	22.0
15	26 30.6' N 076 44.9' W	Cu, Cb, Sc 8	06	065	11	3-4	060	4-6	23.9	1024.5	22.7	22.1
16	26 31.7' N 076 45.7' W	Cu Cb Cs 6	06	085	13	3-4	060	4-6	23.8	1024.3	24.0	22.5
17	26 31.7' N 076 47.1' W	Cu, Cb, As, Ci 7	07	065	04	1-3	060	4-6	24.1	1024.9	-	-
18	26 31.3' N 076 48.3' W	Cu Cb Ac 6	08	070	07	1-3	060	4-6	24.1	1024.9	23.6	22.2
19	26 31.1' N 076 48.3' W	Cu Cb Ac 5	10	073	08	1-3	060	4-6	24.1	1024.9	24.0	22.0
20	26 30.6' N 076 41.4' W	Ac 4	10	065	14	4-5	-	-	23.9	1025.1	23.5	22.0
21	26 30.2' N 076 32.9' W	Ac 3	10	062	15	4-5	-	-	24.3	1025.4	23.4	21.8
22	26 30.2' N 076 32.3' W	Ac 5	08	070	16	4-5	-	-	24.3	1025.4	23.4	22.0
23	26 30.2' N 076 32.3' W	Ac 7	08	085	16	4-5	-	-	24.2	1025.2	23.4	21.9
24	26 30.2' N 076 32.3' W	St C, As 9	08	130	09	2-3	060	4-6	24.1	1025.0	22.0	21.1

REMARKS

1445 - R/W (30 MIN)

DECK LOG - WEATHER OBSERVATION SHEET

NOAA SHIP RONALD H. BROWN	DAY TUESDAY	DATE 28 FEB 12	TIME ZONE +5
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TIME	POSITION (Lat. and Long.)	PRESENT WEATHER	VISIBILITY (N.M.)	WIND		SEA WAVE HEIGHT (Ft.)	SWELL WAVES		SEA WATER TEMP. °C	SEA LEVEL PRESSURE (mb)	TEMPERATURE °C	
				DIR. (True)	SPEED (Kts.)		DIR. (True)	HEIGHT (Ft.)			DRY BLUB	WET BULB
01	26° 30.2' N 076° 32.3' W	Cu, As 8	08	090	12	2-4	060	4-6	24.1	1025.0	22.5	21.2
02	26° 30.6' N 076° 40.7' W	Cu, As 7	08	090	14	2-4	060	4-6	24.1	1025.5	22.5	21.0
03	26° 31.0' N 076° 49.9' W	Cu Ac 6	08	101	11	2-4	060	4-6	24.1	1024.0	23.0	21.0
04	26° 31.0' N 076° 49.9' W	—	10	070	10	2-4	—	—	24.1	1023.4	23.2	21.5
05	26° 31.1' N 076° 49.9' W	—	10	080	11	2-4	—	—	24.2	1023.6	23.0	21.5
06	26° 29.3' N 076° 45.7' W	Cu Ac 4	10	080	13	2-4	060	4-6	24.0	1023.9	23.5	21.5
07	26° 30.8' N 076° 44.6' W	Cu Ac 4	10	080	15	2-4	060	4-6	23.8	1024.4	23.0	21.0
08	26° 30.3' N 076° 44.9' W	Cu Ac 6	12	090	12	2-4	240	4-6	23.8	1024.7	23.5	22.0
09	26° 30.9' N 076° 47.7' W	Cu Ac 7	12	090	11	2-4	240	4-6	24.1	1025.0	24.0	22.0
10	26° 30.7' N 076° 49.3' W	Cu Ac 7	12	090	08	2-4	240	4-6	24.1	1025.4	24.1	22.1
11	26° 30.7' N 076° 48.7' W	Cu Ac 7	12	095	09	2-4	240	4-6	24.1	1025.6	24.8	21.8
12	26° 30.7' N 076° 47.6' W	Cu Ac 7	12	088	10	2-4	060	4-6	24.1	1025.0	24.8	22.0
13	26° 30.7' N 076° 46.1' W	Cu, Ac, As, Ci 7	12	085	09	1-3	060	3-5	24.1	1024.4	24.7	22.2
14	26° 30.7' N 076° 44.5' W	Cu Ac 6	12	070	09	1-3	060	3-5	24.3	1023.6	24.0	22.0
15	26° 30.8' N 076° 44.5' W	Cu Ac 6	12	070	09	1-3	060	3-5	24.2	1023.5	24.5	22.3
16												
17	26° 31.5' N 076° 52.1' W	Cu, Ac, As, Ci 6	12	060	12	2-3	060	3-5	24.4	1023.6	23.5	21.5
18	26° 30.5' N 076° 44.6' W	Cu Ac 6	12	053	13	2-3	060	3-5	24.1	1023.6	23.3	21.6
19	26° 29.9' N 076° 44.2' W	Cu Ac 6	10	070	15	2-3	—	—	24.1	1023.9	23.7	20.5
20	26° 30.0' N 076° 44.6' W	Cu Ac 6	10	090	12	2-3	—	—	24.1	1024.3	23.3	20.7
21	26° 30.0' N 076° 44.6' W	Cu Ac 4	10	080	13	2-3	—	—	24.0	1024.6	23.3	21.2
22	26° 30.0' N 076° 44.6' W	Cu Ac 4	10	075	14	2-3	—	—	24.0	1024.9	23.3	21.5
23	26° 30.0' N 076° 44.6' W	Cu Ac 4	10	080	15	2-4	—	—	23.9	1024.4	23.2	21.2
24	26° 30.0' N 076° 44.6' W	Cu, Ac 2	08	075	13	1-3	060	4-5	23.9	1024.2	22.8	20.8

REMARKS

DECK LOG - WEATHER OBSERVATION SHEET

NOAA SHIP RONALD H. BROWN	DAY WEDNESDAY	DATE 29 FEB 12	TIME ZONE +5
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TIME	POSITION (Lat. and Long.)	PRESENT WEATHER	VISIBILITY (N.M.)	WIND		SEA WAVE HEIGHT (Fl.)	SWELL WAVES		SEA WATER TEMP. °C	SEA LEVEL PRESSURE (mb)	TEMPERATURE °C	
				DIR. (True)	SPEED (Kts.)		DIR. (True)	HEIGHT (Fl.)			DRY BLUB	WET BULB
01	26° 30.0' N 076° 44.6' W	Ac 4	08	084	13	2-4	060	4-5	23.8	1023.9	23.0	20.5
02	26° 30.0' N 076° 44.6' W	Ac 4	08	081	13	2-4	060	4-5	23.9	1023.0	23.0	21.0
03	26° 30.0' N 076° 44.6' W	CuAc 4	08	089	14	2-4	060	4-5	23.8	1022.5	23.0	21.0
04	26° 30.2' N 076° 45.8' W	-	10	100	8	1-3	-	-	24.0	1022.5	23.0	21.0
05	26° 30.1' N 076° 49.2' W	-	10	080	16	2-4	-	-	24.0	1022.7	23.0	20.5
06	26° 30.1' N 076° 49.2' W	CuAc 3	10	080	14	2-4	090	4-5	24.2	1023.2	23.0	20.5
07	26° 30.1' N 076° 49.2' W	CuAc 3	10	090	16	2-4	090	4-5	24.3	1023.6	23.5	21.0
08	26° 30.5' N 076° 49.0' W	CuAc 3	10	090	16	2-4	090	4-5	24.3	1024.0	24.0	21.3
09	26° 29.6' N 076° 49.2' W	CuAc 3	10	080	16	2-4	090	4-5	24.3	1024.4	24.8	21.6
10	26° 30.2' N 076° 49.2' W	CuAc 3	10	090	16	2-4	090	4-5	24.3	1024.5	25.0	21.6
11	26° 30.2' N 076° 51.7' W	CuAc 3	12	105	14	2-4	090	4-5	24.4	1024.6	25.2	21.7
12	26° 30.2' N 076° 51.4' W	Cu, Sc 4	12	100	12	2-4	090	4-5	24.4	1024.3	25.2	21.7
13	26° 30.1' N 076° 50.1' W	Cu 2	12	110	12	2-4	090	4-5	24.5	1023.3	25.0	21.7
14	26° 30.0' N 076° 48.8' W	Cu 2	12	105	12	2-4	090	4-5	24.4	1022.4	25.1	21.3
15	26° 32.0' N 076° 52.5' W	Cu 4	12	113	09	2-4	090	4-5	24.5	1021.5	25.0	22.0
16												
17	26° 30.5' N 076° 50.1' W	Cu, Sc 3	12	135	09	2-3	090	4-5	24.5	1021.6	24.5	21.5
18	26° 29.1' N 076° 49.4' W	Cu, Sc 4	12	117	10	2-3	090	4-5	24.3	1021.7	24.3	21.7
19	26° 29.9' N 076° 44.5' W	Cu, Sc 4	10	130	10	2-3	090	4-5	24.7	1021.6	24.0	20.5
20	26° 29.9' N 076° 44.5' W	Cu, Sc 3	12	130	09	2-3	-	-	24.7	1019.9	23.8	21.1
21	26° 29.9' N 076° 44.5' W	Cu 3	12	130	10	2-3	-	-	24.7	1019.9	23.3	21.3
22	26° 29.9' N 076° 44.5' W	Cu 3	12	140	10	2-3	-	-	24.7	1020.2	23.5	21.3
23	26° 17.4' N 076° 50.3' W	Cu 3	12	120	08	2-3	-	-	24.3	1021.4	24.0	21.0
24	26° 04.359' N 076° 56.373' W	CuAc 2	8	108	12	2-3	-	-	24.1	1021.0	23.5	20.5

REMARKS

DECK LOG - WEATHER OBSERVATION SHEET

NOAA SHIP RONALD H. BROWN	DAY THURS	DATE 1 MARCH 2012	TIME ZONE +5
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TIME	POSITION (Lat. and Long.)	PRESENT WEATHER	VISIBILITY (N.M.)	WIND		SEA WAVE HEIGHT (Ft.)	SWELL WAVES		SEA WATER TEMP. °C	SEA LEVEL PRESSURE (mb)	TEMPERATURE °C	
				DIR. (True)	SPEED (Kts.)		DIR. (True)	HEIGHT (Ft.)			DRY BULB	WET BULB
01	25° 51.523' N 077° 01.927' W	Cu ³	8	107	12	2-4	060	2-4	24.3	1020.5	23.5	20.5
02	25° 44.5' N 077° 10.7' W	Cu ³	8	130	11	2-4	060	2-4	24.7	1020.0	23.5	21.0
03	25° 50.2' N 077° 23.2' W	Cu ³	8	135	08	2-4	060	2-4	24.3	1019.5	23.0	21.0
04	25° 37.7' N 077° 37.3' W	-	10	150	10	2-4	-	-	24.6	1019.4	23.5	20.5
05	26° 02.9' N 077° 47.0' W	-	10	150	10	2-4	-	-	24.8	1019.8	23.5	21.0
06	26° 10.1' N 078° 00.6' W	Cu ²	10	170	13	2-4	060	2-4	25.0	1019.7	23.5	20.5
07	26° 17.8' N 078° 15.1' W	Cu ²	10	160	14	2-4	060	2-4	24.3	1020.0	23.5	21.2
08	26° 33.3' N 078° 25.7' W	Cu ²	12	160	13	2-4	-	-	24.1	1020.6	23.8	21.7
09												
10	26° 26.0' N 078° 46.0' W	Cu ³	12	185	13	2-4	-	-	24.6	1021.1	25.2	22.1
11												
12	26° 20.2' N 078° 43.8' W	Cu ³	12	180	12	2-3	-	-	25.2	1020.7	26.0	22.9
13	26° 19.9' N 078° 42.3' W	Cu ²	12	170	09	1-3	-	-	25.3	1019.7	25.7	22.8
14	26° 24.7' N 078° 38.7' W	Cu, Sc ⁵	12	190	06	1-2	-	-	24.7	1019.1	26.3	22.9
15	26° 15.0' N 078° 45.9' W	Cu, Sc ⁶	12	195	06	1-2	-	-	26.0	1018.1	26.0	22.8
16	26° 14.8' N 078° 45.7' W	Cu ⁴	12	211	07	1-2	-	-	26.0	1017.7	26.0	23.0
17	26° 10.0' N 078° 48.8' W	Cu ³	12	170	05	0-1	-	-	25.8	1018.0	27.5	23.5
18	26° 04.02' N 078° 51.00' W	Cu ³	10	160	4	0-1	-	-	25.3	1018.0	27.7	23.0
19	26° 02.8' N 078° 52.4' W	Cu ³	10	LT	VAR	0-1	-	-	25.4	1018.2	24.0	22.0
20	26° 03.7' N 079° 15.0' W	Cu ¹	8	118	13	02-4	-	-	25.6	1017.8	24.0	22.5
21												
22												
23												
24	26° 03.7' N 079° 15.0' W	Cu ¹	8	118	13	2-4	-	-	25.6	1017.8	24.0	22.5

REMARKS

DECK LOG - WEATHER OBSERVATION SHEET

NOAA SHIP RONALD H. BROWN	DAY FR	DATE 02 MAR 2012	TIME ZONE +5
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TIME	POSITION (Lat. and Long.)	PRESENT WEATHER	VISIBILITY (N.M.)	WIND		SEA WAVE HEIGHT (Ft.)	SWELL WAVES		SEA WATER TEMP. °C	SEA LEVEL PRESSURE (mb)	TEMPERATURE °C	
				DIR. (True)	SPEED (Kts.)		DIR. (True)	HEIGHT (Ft.)			DRY BLUB	WET BULB
01	26 03.1' N 079 18.7' W	Ac 1	8	135	11	2-4	-	-	25.7	1017.0	24.0	22.0
02	26 02.8' N 079 21.4' W	CuAc 3	8	158	09	2-4	-	-	25.7	1016.9	24.5	22.0
03	26 03.1' N 079 24.0' W	CuAc 3	8	156	10	2-4	-	-	25.6	1016.6	24.5	22.0
04	26 02.1' N 079 26.6' W	-	10	160	9	2-4	-	-	25.9	1016.6	24.2	21.5
05	26 03.2' N 079 28.7' W	-	10	150	11	2-4	-	-	25.9	1016.8	24.5	22.0
06	26 02.5' N 079 33.8' W	CuAc 4	10	170	13	2-4	-	-	26.0	1017.0	24.5	22.5
07	26 02.3' N 079 34.7' W	CuAc 4	10	160	14	2-4	-	-	26.0	1017.4	24.5	22.2
08	26 02.4' N 079 39.7' W	CuAc 6	12	155	12	2-4	-	-	26.0	1017.6	26.0	23.0
09	26 03.2' N 079 41.4' W	CuAc 5	12	140	14	2-4	-	-	26.0	1018.6	25.8	22.5
10	26 03.1' N 079 47.8' W	CuAc 5	12	143	17	2-4	-	-	26.0	1018.7	26.1	22.3
11												
12	26 03.5' N 079 51.0' W	CuAc 4	12	159	14	2-4	-	-	26.0	1017.9	27.0	23.0
13	26 01.9' N 079 55.3' W	CuAc 7	12	165	12	2-4	-	-	26.2	1017.1	26.0	22.5
14	26 02.8' N 079 57.3' W	CuAc Ci 7	12	171	14	2-4	-	-	26.2	1017.0	26.2	22.9
15	26 03.1' N 079 59.7' W	CuAc Ci 6	12	168	13	2-4	-	-	26.0	1016.5	26.5	23.0
16	26 03.0' N 079 58.5' W	CuAc Ci 4	10	160	15	2-4	-	-	25.9	1016.2	25.8	22.5
17	26 04.4' N 080 01.5' W	Cu, Ci, Cs 5	12	170	19	3-4	-	-	26.0	1016.2	25.4	22.6
18	26 13.3' N 079 56.7' W	Cu, Ci, Cs 5	10	220	08	3-4	-	-	26.1	1016.3	26.5	23.7
19	26 25.9' N 079 51.6' W	Cu, Ci, Cs 5	10	190	13	3-4	-	-	26.2	1016.4	25.3	22.9
20	26 39.6' N 079 49.9' W	0	10	175	15	3-4	-	-	26.1	1017.0	24.5	22.8
21	26 52.3' N 079 50.0' W	0	10	175	16	3-4	-	-	26.1	1017.0	24.3	22.8
22												
23												
24	27 00.3' N 079 55.9' W	Ac 1	8	175	19	3-4	-	-	25.5	1015.5	25.0	22.0

REMARKS

DECK LOG - WEATHER OBSERVATION SHEET

NOAA SHIP	DAY	DATE	TIME ZONE
RONALD H. BROWN	SAT	03 MAR 2012	+5

TIME	POSITION (Lat. and Long.)	PRESENT WEATHER	VISIBILITY (N.M.)	WIND		SEA WAVE HEIGHT (Ft.)	SWELL WAVES		SEA WATER TEMP. °C	SEA LEVEL PRESSURE (mb)	TEMPERATURE °C	
				DIR. (True)	SPEED (Kts.)		DIR. (True)	HEIGHT (Ft.)			DRY BLUB	WET BULB
01	26 59.5 N 079 51.9 W	CuAc 1	8	171	16	2-4	-	-	25.9	1015.5	25.0	22.0
02	27 00.7 N 079 52.0 W	Cu 2	8	173	16	2-4	-	-	25.9	1014.6	25.0	22.0
03	26 59.1 N 079 46.9 W	Cu 3	8	171	18	2-4	-	-	26.0	1013.8	25.0	22.0
04	27 00.0 N 079 46.1 W	-	10	180	20	2-4	-	-	26.0	1013.4	24.5	22.5
05	26 58.9 N 079 44.3 W	-	10	180	21	2-4	-	-	26.0	1013.4	25.0	22.5
06	26 59.3 N 079 41.0 W	-	10	180	19	2-4	-	-	26.0	1013.7	25.1	22.5
07	26 57.4 N 079 41.0 W	Cu 3	10	170	19	2-4	180	2-4	26.0	1013.9	25.0	22.2
08	26 59.8 N 079 37.0 W	Cu 3	12	180	15	2-4	-	-	26.0	1016.0	25.6	22.8
09	27 00.9 N 079 35.5 W	Cu 3	12	185	22	3-5	-	-	26.0	1016.0	26.2	22.8
10	26 59.5 N 079 32.5 W	Cu 3	12	185	22	4-6	-	-	26.0	1015.9	26.2	22.8
11	26 59.5 N 079 30.0 W	Cu 3	12	185	20	4-7	-	-	26.0	1016.0	27.0	23.2
12	26 59 36.2 N 079 26 58.2 W	CuAc 3	12	184	21	4-7	-	-	25.3	1015.0	26.5	23.0
13	26 59.4 N 079 22.8 W	CuAc 4	12	187	21	4-7	-	-	26.0	1014.2	26.5	23.0
14	26 59.1 N 079 20.5 W	Cu, Ci, Cs	12	180	26	5-7	-	-	26.1	1013.3	26.5	23.8
15	26 59.9 N 079 17.2 W	Cu, Cs	12	185	18	4-7	-	-	25.9	1012.9	27.0	23.9
16	26 59.7 N 079 12.1 W	Cu, Cs	10	180	20	4-7	180	2-4	25.8	1012.7	26.0	23.6
17	27 00.3 N 079 12.1 W	Cu, Cs	12	180	21	5-7	-	-	25.8	1012.2	26.9	23.9
18	27 07.3 N 079 17.4 W	Cu, Ci, Cs	10	170	27	5-7	180	2-4	25.8	1011.7	26.0	23.5
19	27 22.7 N 079 20.6 W	Cu, Ci, Cs	10	181	25	5-7	180	5-7	25.8	1011.6	25.5	23.9
20	27 38.7 N 079 21.3 W	Cu, Ci, Cs	10	185	24	5-7	-	-	25.8	1012.2	25.8	24.2
21	27 53.4 N 079 21.9 W	Cu, Ci, Cs	10	185	26	6-8	-	-	25.8	1012.0	25.2	24.1
22	28 09.6 N 079 22.8 W	Cu, Ci, Cs	10	185	25	6-8	-	-	25.5	1011.4	25.8	24.2
23	28 22.6 N 079 23.3 W	Cu, Ci, Cs	10	192	27	6-9	-	-	25.8	1011.0	25.8	24.2
24	28 38.3 N 079 24.0 W	Ci, Cs	8	198	28	6-9	-	-	25.3	1009.8	26.0	24.5

REMARKS

DECK LOG - WEATHER OBSERVATION SHEET

NOAA SHIP RONALD H. BROWN	DAY SUN	DATE 04 MAR 2012	TIME ZONE FS
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TIME	POSITION (Lat. and Long.)	PRESENT WEATHER	VISIBILITY (N.M.)	WIND		SEA WAVE HEIGHT (Ft.)	SWELL WAVES		SEA WATER TEMP. °C	SEA LEVEL PRESSURE (mb)	TEMPERATURE °C	
				DIR. (True)	SPEED (Kts.)		DIR. (True)	HEIGHT (Ft.)			DRY BLUB	WET BULB
01	28° 51.3' N 079° 24.6' W	Ac Ci 8	8	203	29	6-7	210	6-8	25.9	1009.0	25.9	23.9
02	29° 00.1' N 79° 25.3' W	Cu Ac 8	8	202	32	6-7	210	6-8	25.9	1008.5	25.5	23.5
03	29° 21.2' N 079° 24.3' W	Ac Ci 8	8	195	35	7-9	210	6-8	25.6	1006.0	25.5	23.5
04	29° 35.4' N 079° 24.4' W	Cs 8	8	200	35	9-12	180	6-8	25.5	1005.4	25.5	23.5
05	29° 46.9' N 079° 25.4' W	Ac Cs 7	8	200	40	9-12	180	6-8	25.4	1003.9	25.5	23.5
06	30° 01.3' N 079° 26.0' W	RAIN	8	200	37	9-12	180	6-8	25.4	1007.8	25.5	23.5
07	30° 01.4' N 079° 26.3' W	Cs 8	8	200	42	9-12	180	6-8	25.4	1007.4	25.5	23.5
08	30° 23.2' N 079° 27.7' W	Ns 8	6	310	25	9-12	200	6-8	25.5	1007.0		
09	30° 32.0' N 079° 28.5' W	Ns 8	8	310	28	9-12	200	6-8	25.6	1009.0		
10	30° 39.9' N 079° 28.6' W	Ns 8	8	305	32	10-14	200	6-8	25.6	1009.0		
11	30° 47.5' N 079° 28.9' W	As 7	10	305	28	9-12	—	—	25.5	1011.0		
12	30° 55.0' N 079° 29.6' W	Cu, Ac, As, Ci 7	10	310	27	9-12	—	—	25.5	1012.0	15.4	11.0
13	31° 03.6' N 079° 30.1' W	Cu, Ac, Ci, Cs 5	10	290	27	9-12	—	—	25.2	1012.2	15.2	10.5
14	31° 12.1' N 079° 30.5' W	Cu, Ac, Ci, Cs 5	12	285	23	9-12	—	—	24.6	1012.5	15.2	10.5
15	31° 21.7' N 079° 31.6' W	Cu, Ac, Ci 5	12	290	28	9-12	—	—	23.5	1012.4	15.3	10.2
16	31° 30.1' N 079° 32.2' W	Cu, Ac, Ci 4	10	300	28	9-12	—	—	23.4	1012.6	15.0	10.0
17	31° 40.2' N 079° 32.7' W	Cu, Ac, Ci 6	10	290	28	9-12	—	—	22.4	1013.4	14.9	9.9
18	31° 48.5' N 079° 33.2' W	Cu, As 6	10	300	28	9-12	—	—	21.4	1014.6	14.0	13.7
19	31° 55.2' N 079° 33.5' W	Cu, As 4	10	310	29	9-12	—	—	18.7	1014.9	14.0	13.9
20	32° 04.0' N 079° 33.9' W	Cu 2	10	300	23	9-12	—	—	18.3	1019.0	14.0	14.0
21	32° 11.5' N 079° 34.3' W	Cu 1	10	290	27	9-12	—	—	17.5	1019.0	14.0	14.0
22	32° 21.8' N 079° 34.7' W	Cu 0	10	290	23	9-12	—	—	17.2	1019.8	13.0	13.0
23												
24	32° 37.5' N 079° 34.7' W	CLEAR 0	08	269	15	1-2	—	—	—	1020.0	12.0	9.0

REMARKS

0720 LIGHTNING OBSERVED

DECK LOG - WEATHER OBSERVATION SHEET

NOAA SHIP RONALD H. BROWN	DAY MON	DATE 05 MAR 2012	TIME ZONE +5
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TIME	POSITION (Lat. and Long.)	PRESENT WEATHER	VISIBILITY (N.M.)	WIND		SEA WAVE HEIGHT (Ft.)	SWELL WAVES		SEA WATER TEMP. °C	SEA LEVEL PRESSURE (mb)	TEMPERATURE °C	
				DIR. (True)	SPEED (Kts.)		DIR. (True)	HEIGHT (Ft.)			DRY BLUB	WET BULB
01	32 41.0 N 079 41.5 W	CLEAR ⁰	8	269	15	1-2	—	—	—	1021.0	12.0	9.0
02	32 41.1 N 079 41.5 W	CLEAR ⁰	8	259	14	1-2	—	—	—	1021.0	12.0	8.5
03	32 41.1 N 079 41.6 W	CLEAR ⁰	8	230	14	1-2	—	—	—	1020.5	12.5	8.5
04	032 41.1 N 079 41.5 W	CLEAR	10	230	15	2-3	—	—	—	1020.5	12.5	8.5
05		CLEAR	10	230	18	2-3	—	—	—	1020.7	13.5	8.5
06												
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REMARKS