

Brown-0209 (9 February 2020)

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Compiled: 02.09 / 18:30 AST

1. Objective

Continuing to sample aerosol, clouds, BL, ocean properties. Met :

02:00 P3 Night Flight (RF9)

13:00-15:00 Continuous uCTD

17:00 Rosette CTD to 400 m

Balloon launches every 4 hours

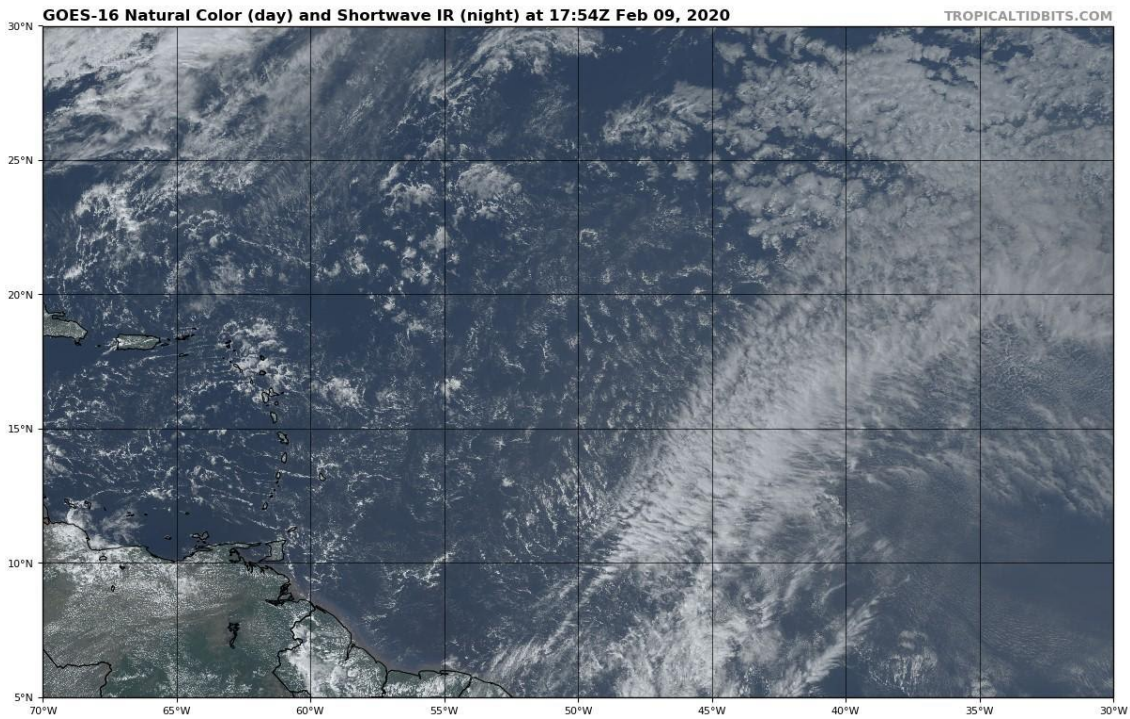
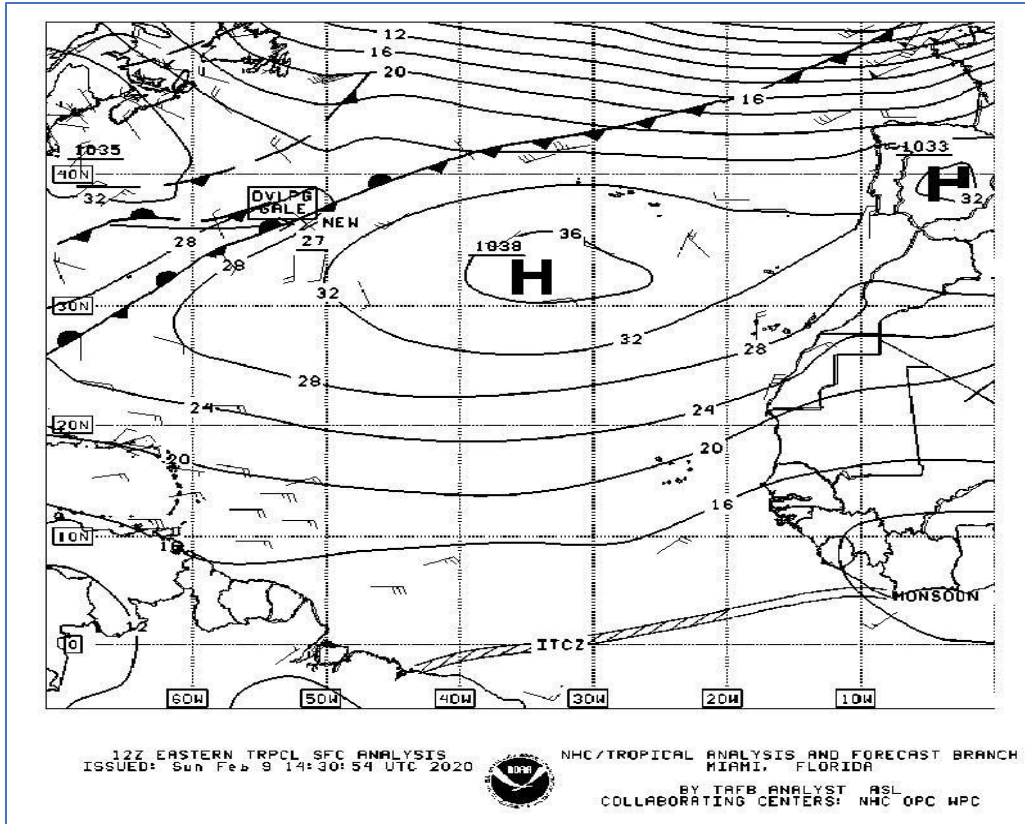
Saildrone in area today for comparison data set near Station Point.

Holding station throughout this evening's P3 night flight until Monday morning (~0800 AST)

2. Synoptic Situation

Sunny skies alternated with intervals of cloudiness today. The onset of another dust event was visibly noticeable with a greater concentration nearer to the surface than observed with the previous event. Above normal sea conditions were experienced with swells peaking near 3.0m while wind speeds ranged from 16 to 24 knots.

Local Time (UTC -4)	Ship's Position	Coverage	Types	Remarks
800	13°51'N 054°51'W	0/8 High	N/A	Slightly hazy conditions
		0/8 Mid	N/A	
		2/8 Low	Cu	
1100	13°51'N 054°51'W	0/8 High	N/A	Hazy conditions
		0/8 Mid	N/A	
		1/8 Low	Cu	
1800	13°51'N 054°51'W°	0/8 High	N/A	Hazy conditions



3. Cruise-day Elements

Balloon launches every 4 hours

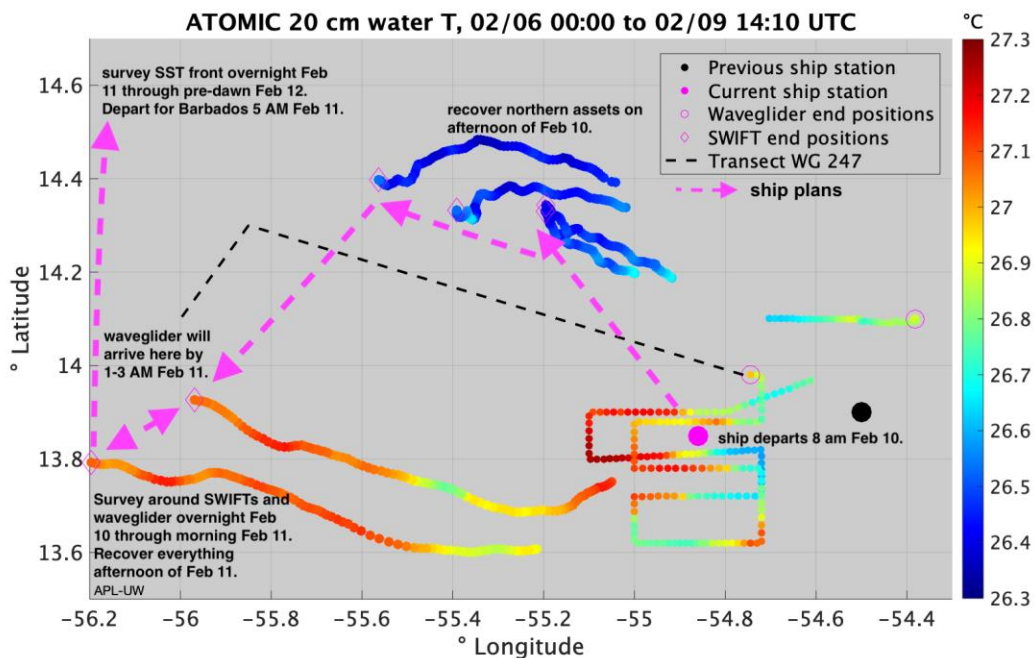
CTD to 1000m at 1300 AST

uCTD starting at 1300 AST and continuing every odd-hour while on station

4. Instrument Status

No changes from last report.

5. Outlook (through to end of campaign, Feb 13)



Feb 10:

12:00 Aerosol ops suspended for campaign

12:00-16:00 Transit from current Station Point to NW cluster of 4 SWIFT drifters

16:00-22:00 Recover drifters, spending ~1 hr at each for calibration data

Balloon launches every 4 hours

Lidar, radar, ceilometer obtaining continuous data

22:00 Transit from NW cluster to SW cluster to recover 2 SWIFTs and 1 Wave Glider

Feb 11

02:00 P3 Night Flight (RF11)

02:00-16:00 RHB in Transit; arrive at SW cluster for survey and calibration data around assets

16:00-21:00 Recover SWIFTs and Wave Glider in SW cluster

21:00- 09:00 (next day) Survey SST front for 12 hours northward and then into the wind (NE-ward) across the front

Balloon launches every 4 hours

Lidar, radar, ceilometer obtaining continuous data

No aerosol sampling

Feb 12

09:00 Brown transits back to Barbados ~230 nm

Balloon launches end by 70 nm offshore

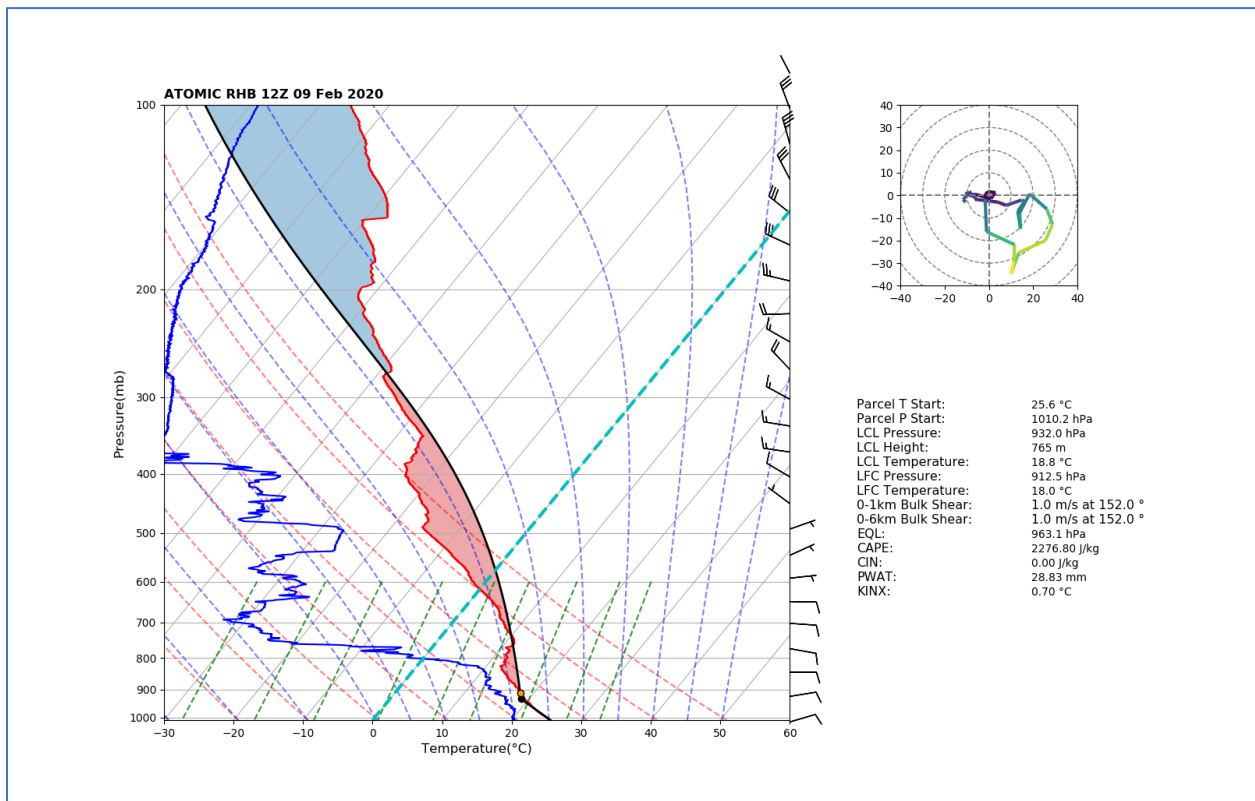
Radar turned off at some point as we get to ~50 nm from shore

Feb 13

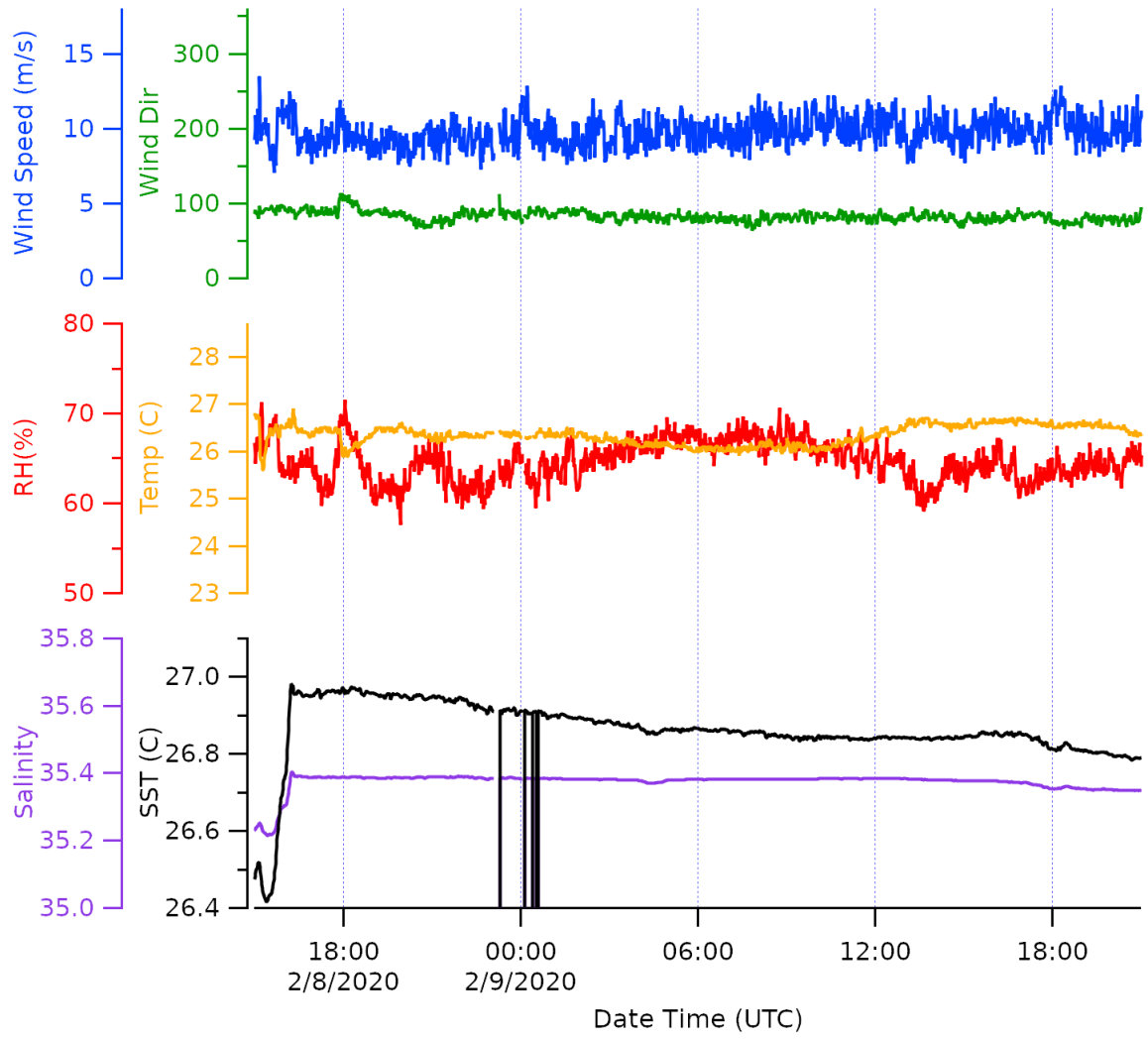
09:00 Arrive just off shore of Barbados to await pilot

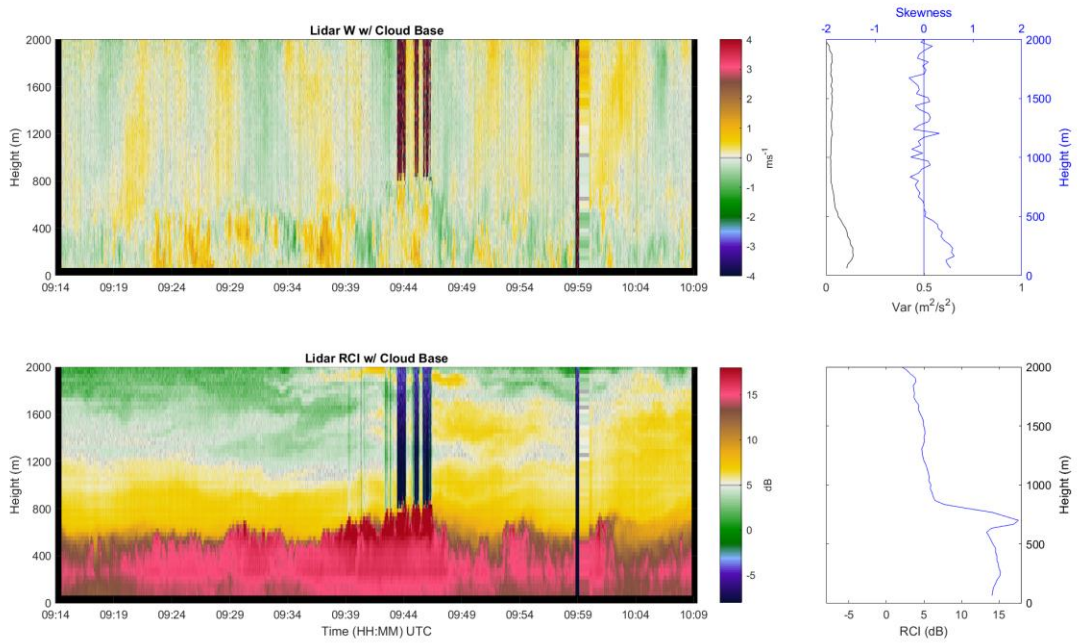
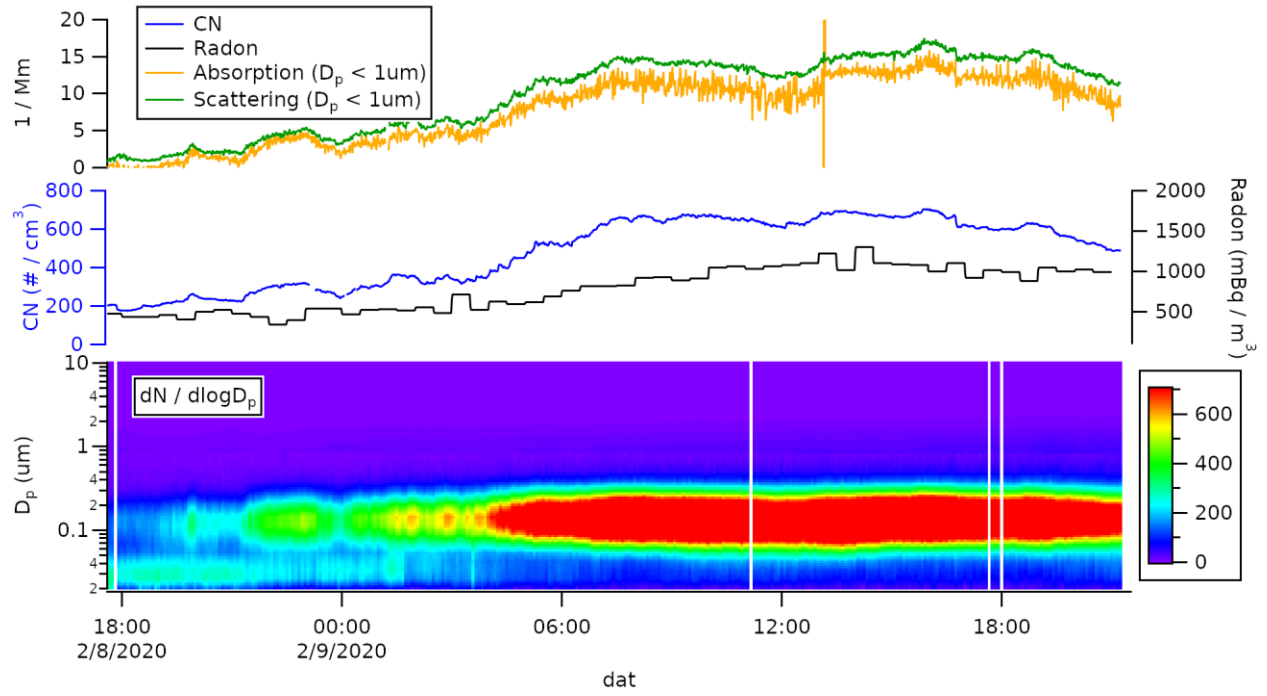
11:30 Requested time for pilot to bring ship into port of Barbados

6. Figures



RONALD H BROWN SKEW-T (12Z)





MicroDop Vertical Data - B: +Grd, G: -Grd, R: Var Yel:BLH Mag :CB - Init day: 09-Feb-2020 (#40)