

# Brown-0117 (17 Jan 2020)

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## 1. Objective

Atmospheric sampling in the center of the P3 dropsonde circle at 41°50'N and 51°1'W.  
Radiosondes every 4 hours.

## 2. Synoptic Situation

Winds have decreased from 20 to 15 kts over the course of the day. A few white caps with a sea state of 5 to 7.

Field	Quantity	Notes
RH	(81.8, 2.5)	18 m asl
Tair	(25.4, 0.29)	18 m asl
Wind	(8.3, 1.2 m/s)	18 m asl
SST	(26.2, 0.04)	5 m bsl
Salinity	(35.5, 0.04)	5 m bsl
Precipitable water		
CN	(225, 25)	18 m asl
CCN	(125, 20@0.3%)	18 m asl
Dust	No indication	
Trade Inversion		
Cloud Obs (low/mid/high)	08:00	Local
Coverage (low/mid/high)		
Cloud Obs (low/mid/high)	12:00	Local
Coverage (low/mid/high)		
Cloud Obs (low/mid/high)	16:00	Local
Coverage (low/mid/high)		

### 3. Cruise-day Elements

Element	Position [°N, °W]	Time [UTC]	Notes
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### 4. Instrument Status

Cloud radar, microwave radiometer, and Picarro isotope instrument are not operational.

### 5. Outlook

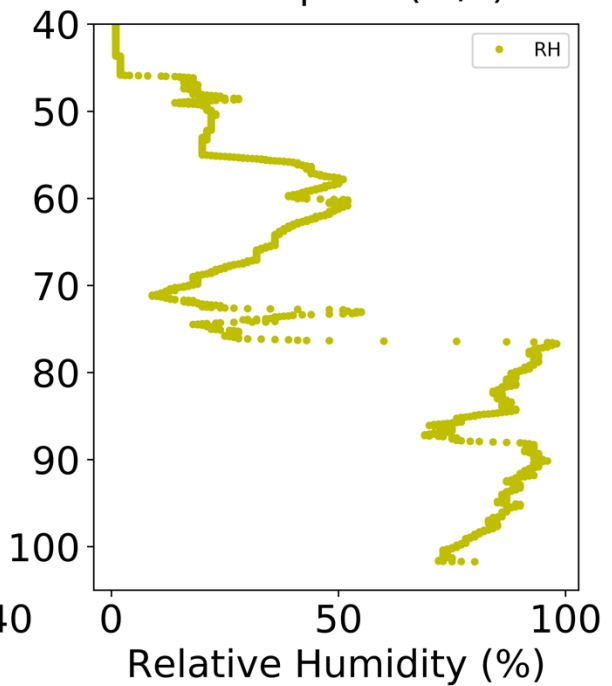
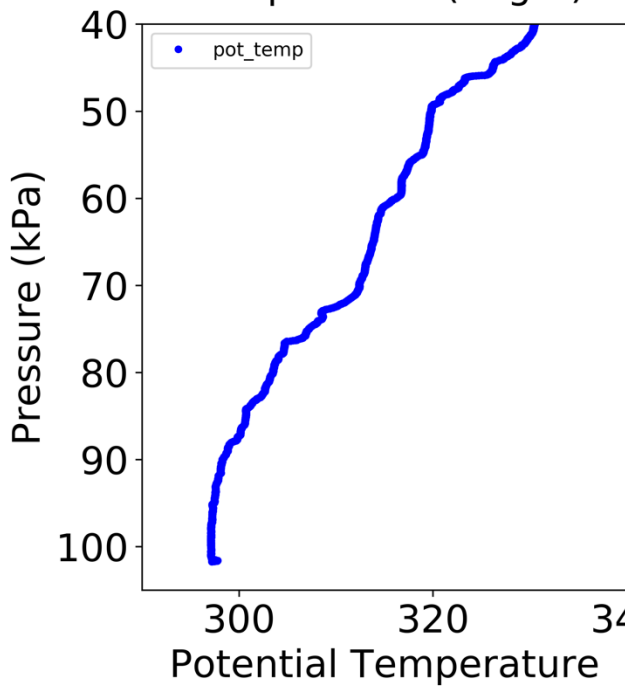
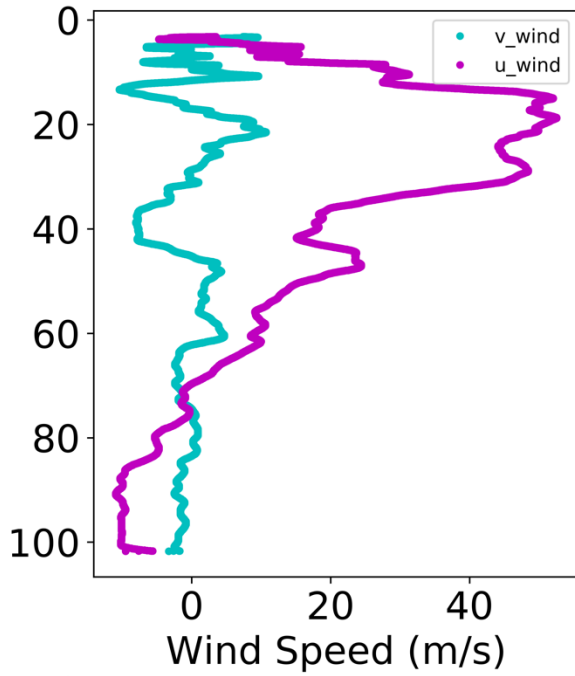
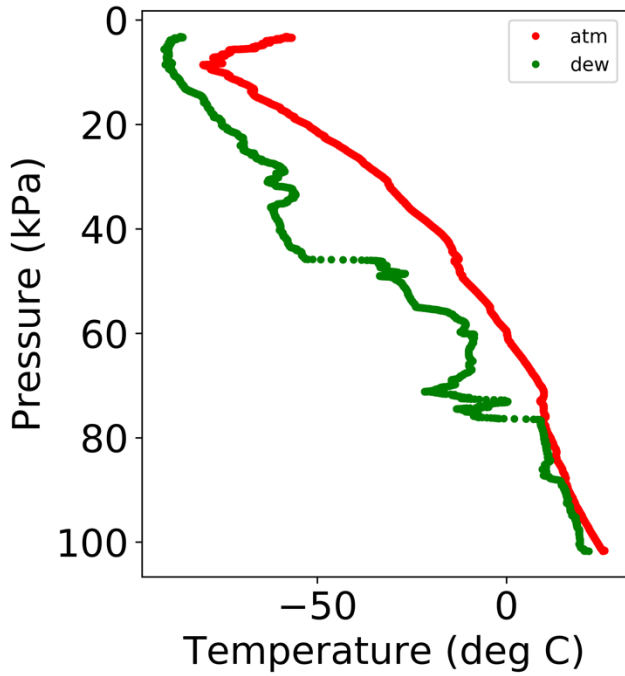
Tomorrow at 07:00 we will transit ~ 120 nm to 14°21'44"N and 53°W to be in place for the HALO overflight on Sunday Jan. 19. We plan to sit in that location until Wednesday Jan. 22<sup>nd</sup> allowing for three full diurnal cycles of atmospheric sampling and every four hour radiosonde launches. On Jan. 22<sup>nd</sup> we will pick up the 6 SWIFTS before heading to Bridgetown.

### 6. Figures

Today's track:

Sat in one location at 41°50'N and 51°1'W.

2020-01-17 0247UTC



2020-01-17 1043UTC

