

**Brown-0116 (16 Jan 2020)**  
Trish Quinn (Chief Scientist)

**1. Objective**

Recovered old NTAS buoy. Atmospheric sampling. Radiosondes every 4 hours.

**2. Synoptic Situation**

Winds steady at 20 kts all day. White caps with a sea state of 6 to 8.

<b>Field</b>	<b>Quantity</b>	<b>Notes</b>
<b>RH</b>	(74.9, 3.6)	18 m asl
<b>Tair</b>	(25.2, 0.38)	18 m asl
<b>Wind</b>	(10, 2 m/s)	18 m asl
<b>SST</b>	(26.4, 0.18)	5 m bsl
<b>Salinity</b>	(35.5, 0.23)	5 m bsl
<b>Precipitable water</b>		
<b>CN</b>	(175, 20)	18 m asl
<b>CCN</b>	(55, 40@0.3%)	18 m asl
<b>Dust</b>	No indication	
<b>Trade Inversion</b>		
<b>Cloud Obs (low/mid/high)</b>	08:00	Local
<b>Coverage (low/mid/high)</b>		
<b>Cloud Obs (low/mid/high)</b>	12:00	Local
<b>Coverage (low/mid/high)</b>		
<b>Cloud Obs (low/mid/high)</b>	16:00	Local
<b>Coverage (low/mid/high)</b>		

### 3. Cruise-day Elements

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

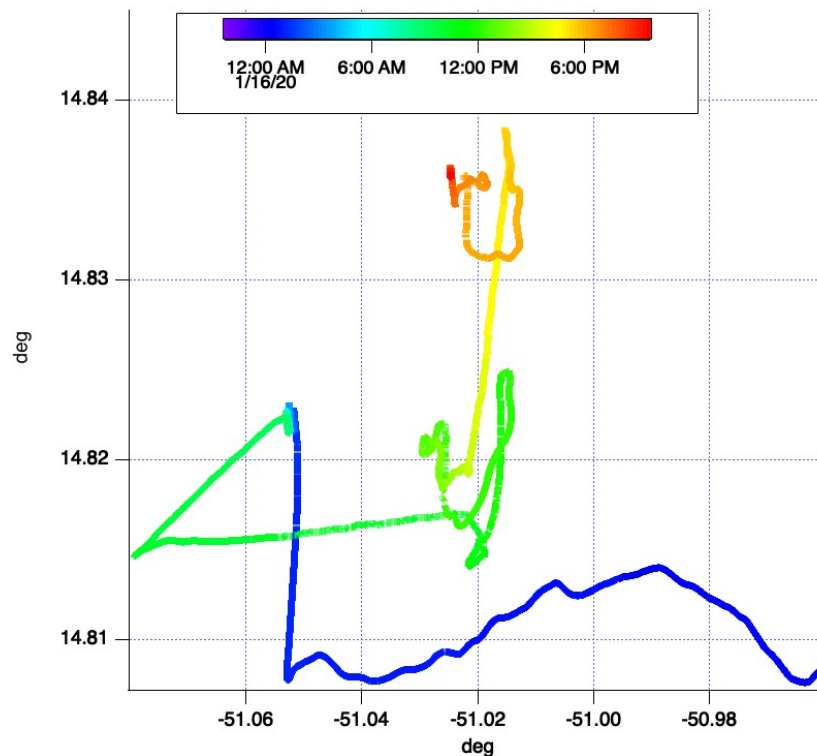
Cloud radar, microwave radiometer, and Picarro isotope instrument are not operational.

### 5. Outlook

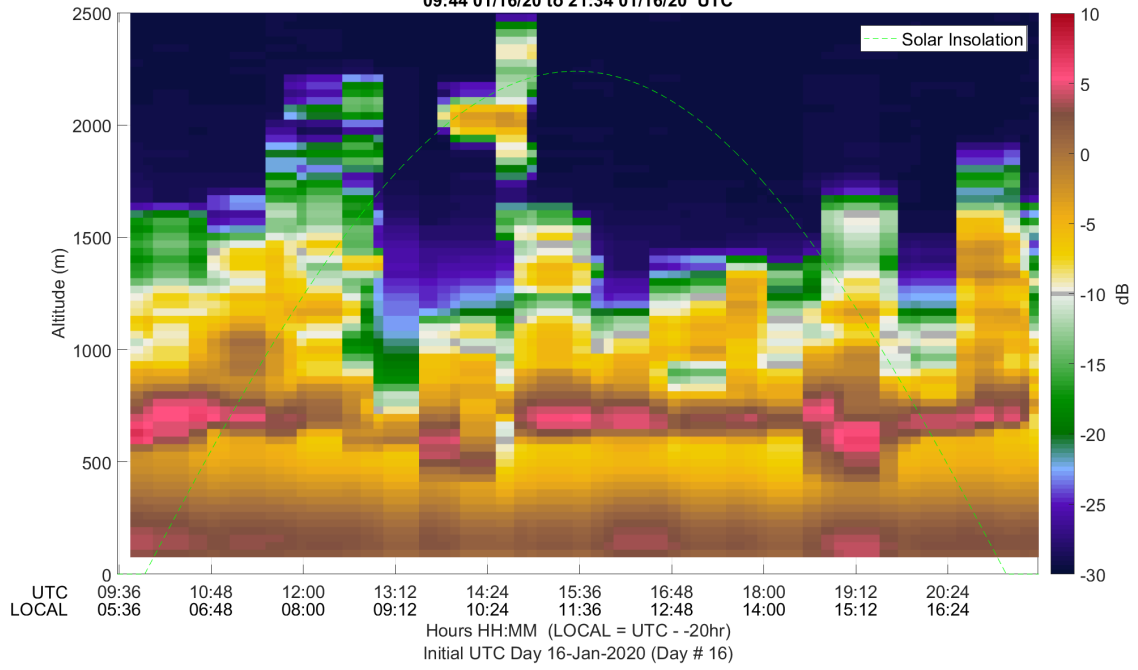
Tomorrow we will sit in the NTAS region (14.833N, 51W) for the first P3 flight. Currently we plan to stay here until 07:00 local Saturday morning (Jan 18). At that time we will transit to 14.5N, 53W where we estimate we need to be to pick up the SWIFTS before heading to Bridgetown. We are planning to stay at ~14.5N and 53W until Jan 22<sup>nd</sup>.

### 6. Figures

Today's track:



MicroDop02 ATOMIC R/V Brown - Aerosol Backscatter Signal Strength Profiles  
09:44 01/16/20 to 21:34 01/16/20 UTC



This plot is from yesterday. We are trying to get the data processed so that we can provide soundings from the day of.

2020-01-15 1900UTC

