Brown-0118 (18 Jan 2020)

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1. Objective

Transited to our new station at 14°21'44" N and 53°W to be in position for the HALO overflight tomorrow and to pick up SWIFTS on Jan 22nd. Conducted hourly semi-underway CTDs (had to slow to 3 kts to deploy) and radiosondes every 4 hours. Atmospheric sampling was compromised since we were running downwind.

2. Synoptic Situation

Quite pleasant. Winds at 12 to 15 kts throughout the day. A few white caps with a sea state of 3 to 5. Sargassum and flying fish were observed.

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Field	Quantity	Notes		
RH	(88.4,3.1)	18 m asl		
Tair	(25.4,0.29)	18 m asl		
Wind	(6.1, 1.3 m/s)	18 m asl		
SST	(26.4,0.26)	5 m bsl		
Salinity	(35.4,0.22)	5 m bsl		
Precipitable water				
CN		18 m asl	Not available. downwind.	Running
CCN	(125,20@0.3%)	18 m asl	Not available. downwind.	Running
Dust			Not available. downwind.	Running
Trade Inversion				
Cloud Obs (low/mid/high)	08:00 Local	Cu,st;As;na		
Coverage (low/mid/high)	5/8;2/8;0/8			
Cloud Obs (low/mid/high)	12:00 Local	Cu,Sc;Ac;na		
Coverage (low/mid/high)	7/8;5/8;??/8			
Cloud Obs (low/mid/high)	16:00 Local	Cu,Sc;As;na		
Coverage (low/mid/high)	1/8;1/8;0/8			

3. Cruise-day Elements

Element Position [°N, °W] Time [UTC] Notes

4. Instrument Status

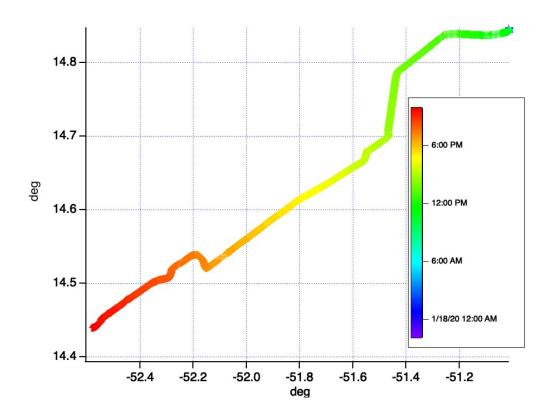
Cloud radar, microwave radiometer, and Picarro isotope instrument are not operational.

5. Outlook

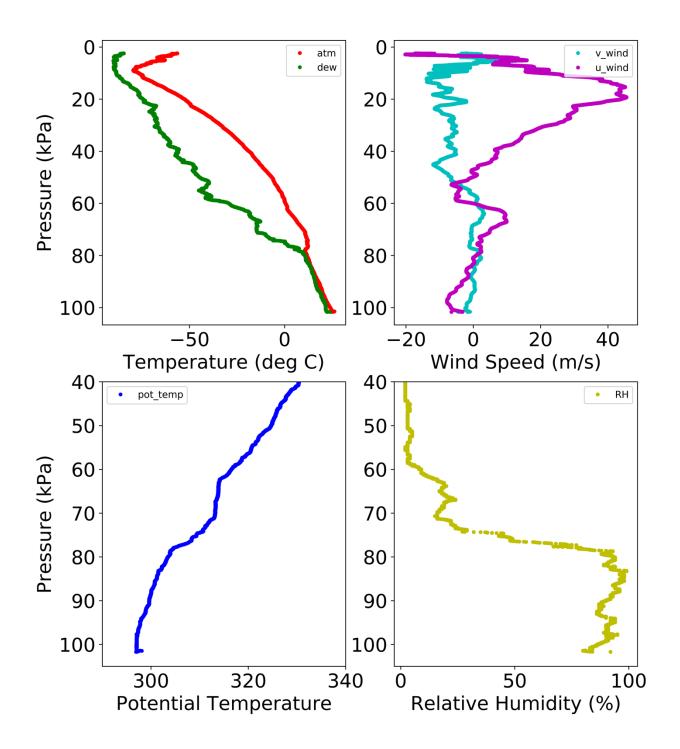
We will arrive on station (14°21'44"N and 53°W) at 20:00 local tonight to be in place for the HALO overflight on Sunday Jan. 19. We plan to sit here until Wednesday Jan. 22nd allowing for three full diurnal cycles of atmospheric sampling, every four hour radiosonde launches, and every two hour handheld CTDs. On Jan. 22nd we will pick up the 6 SWIFTS before heading to Bridgetown.

6. Figures

Today's track:



2020-01-18 1047UTC



2020-01-18 1848UTC

