Brown-0115 (15 Jan 2020)

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1. Objective

Sat by old NTAS buoy and conducted CTD casts for ship-buoy comparison. Triangulated the anchor as it had moved during a storm last year. Kept the bow into the wind throughout for successful atmospheric measurements. Radiosonde launches every 4 hours.

2. Synoptic Situation

Winds have decreased to a steady 20 kts. Fewer white caps today. Sea state of 6 to 8.

Field		Quantity	Notes
RH		(75.7,3.8)	18 m asl
Tair		(25.4,0.43)	18 m asl
Wind		(10.2, 1.9 m/s)	18 m asl
SST		(26.4,0.18)	5 m bsl
Salinity		(35.5,0.21)	5 m bsl
Precipital			
CN		(195,10)	18 m asl
CCN		(100,4000.3%)	18 m asl
Dust		No indication	
Trade Inversion			
Cloud Obs	(low/mid/high)	08:00 Local	Cu,St/As/Ci
Coverage	(low/mid/high)	2/8,1/8,1/8	
Cloud Obs	(low/mid/high)	12:00 Local	Sc/Ac/Ci
Coverage	(low/mid/high)	2/8,2/8,1/8	
Cloud Obs	(low/mid/high)	16:00 Local	Cu,St/Ac/na
Coverage	(low/mid/high)	4/8,2/8,0/8	

3. Cruise-day Elements

Element	Position [°N, °W]	Time [UTC]	Notes
CTD cast 1	14.821N, 51.054W	12:00	250 m
CTD cast 2	14.824N, 51.053W	16:00	250 m
CTD cast 3	14.809N,50.958W	20:00	5000 m

4. Instrument Status

Cloud radar, microwave radiometer, and Picarro isotope instrument are not operational and haven't been since the beginning of the cruise. Microwave radiometer will remain broken throughout ATOMIC. Cloud radar will be worked on during the Bridgetown inport.

5. Outlook

Tomorrow we will recover the old NTAS buoy. We currently are planning on staying in the NTAS region at least through the first P3 flight on Friday (Jan 17).

6. Figures

Today's track:











