

# Brown-0109 (9 January 2020)

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## 1. Objective

Brown continues to head to the NTAS buoy. Radiosondes were launched every 4 hours. Two wave gliders were launched. Atmospheric in situ and remote sensing continued. No coordination with other platforms on this day.

## 2. Synoptic Situation

Weather was cloudier than it has been with significant extents of cumulus. We seem to have transitioned from “sugar” to “flowers”. Waves of 8’ with white caps. Sargassum was not present. Evidence of dust (high scattering, absorption, and radon) lessened around 0109 00:00 UTC as a clean marine air mass was encountered. Particle number concentrations decreased to about 200 1/cm<sup>3</sup> and sub-10 micron scattering to 40 1/Mm.

### Cloud Observations: 01/09/20

Time (Local)	Coverage	Types	Remarks
1200	0/8 High	n/a	
	1/8 Mid	Ac	
	2/8 Low	Cu, Sc	
1600	1/8 High	Ci	
	3/8 Mid	Ac	
	6/8 Low	Cu, Sc	

## 3. Cruise-day Elements

Balloons every four hours. Wave glider launch.

Element	Position [°N, °W]	Time [UTC]	Notes
Wave glider launch	14.595 51.692	16:00	

**Inter-calibration:** None

**CTD Stations:** None

**Overflights:** None

## 4. Instrument Status

All instruments are operational.

## 5. Outlook

We will arrive at the old NTAS buoy tonight around 22:00. Will sit overnight for an intercomparison with the buoy and the ship. We will move to the new buoy site and start deployment at ~08:00. We plan to sit for another intercomparison for 24 hrs and then recover the old buoy.

## 6. Figures



