

Brown-0111 (11 Jan 2020)
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1. Objective

Primary objective was to download data from MOVE moorings located 50 nm NW of NTAS. Atmospheric sampling continued along with radiosonde launches every 4 hours. One deep cast was conducted. No coordination with other platforms.

2. Synoptic Situation

Fair weather with winds around 20 kts, a sea state of 6 to 8', and occasional rain. Partly cloudy.

Field	Quantity	Notes
RH	(80,3.7)	18 m asl
Tair	(25.6,0.34)	18 m asl
Wind	(9.85, 1.74 m/s)	18 m asl
SST	(26.7,0.05)	5 m bsl
Salinity	(35.4,0.015)	5 m bsl
Precipitable water		
CN	(270,41)	18 m asl
CCN	(90,20)	18 m asl
Dust	Yes - Elevated Radon	See figure
Trade Inversion		
Cloud Obs (low/mid/high)	08:00 Local	Cu,St/Ac/Cs
Coverage (low/mid/high)	2/8,1/8,1/8	
Cloud Obs (low/mid/high)	12:00 Local	Cu,St/Ac,As/na
Coverage (low/mid/high)	3/8,3/8,0/8	
Cloud Obs (low/mid/high)	16:00 Local	Cu,St,Sc/As/Ci,Cc
Coverage (low/mid/high)	6/8,3/8,2/8	

3. Cruise-day Elements

Element	Position [°N, °W]	Time [UTC]	Notes
CTD Cast 1	15.436, 51.490	01:34 – 05:01	

CTD Station: One deep cast to 5,000 m. Mixed layer depth of ~ 50 m. Layer of warmer water beneath the mixed layer.

4. Instrument Status

Cloud radar, microwave radiometer, and Picarro isotope instrument are not operational and haven't been since the beginning of the cruise.

5. Outlook

We plan to stay in the MOVE region (~15.45N and 51.08W) through Sunday (Jan 12) and continue atmospheric sampling and radiosondes every 4 hours.

6. Figures



