

Brown-0110 (10 Jan 2020)

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1. Objective

Chief objective of the day was the deployment of the new NTAS buoy. It was put in the water at 8:45 and the anchor was dropped at 14:00 at 14.748N and 50.937W. With a couple exceptions, we were able to keep the bow into the wind and continue atmospheric sampling during the NTAS operations. Radiosondes were released every 4 hrs. No coordination with other platforms.

2. Synoptic Situation

Fair weather with winds around 20 kts and a sea state of 6 to 8'. Partly cloudy with shallow cumulus. A few rain showers in the afternoon. Some Sargassum.

Field	Quantity	Notes
RH	(79.7,3.3)	18 m asl
Tair	(25.7,0.44)	18 m asl
Wind	(11, 1.9)	18 m asl
SST	(26.6,0.19)	5 m bsl
Salinity	(35.4,0.22)	5 m bsl
Precipitable water		
CN	(207,62)	18 m asl
CCN	(40,20)	18 m asl
Dust	No indication	
Trade Inversion		
Cloud Obs (low/mid/high)	08:00 Local	Cu,Sc/Ac/na
Coverage (low/mid/high)	3/8,1/8,0/8	
Cloud Obs (low/mid/high)	12:00 Local	Cu/Ac/na
Coverage (low/mid/high)	5/8,4/8,1/8	
Cloud Obs (low/mid/high)	16:00 Local	Cu,Sc/AC/Ci
Coverage (low/mid/high)	6/8,4/8,1/8	

3. Cruise-day Elements

Element	Position [°N, °W]	Time [UTC]	Notes
NTAS deployment	14.748N, 50.937W		

Inter-calibration: Old NTAS buoy with ship

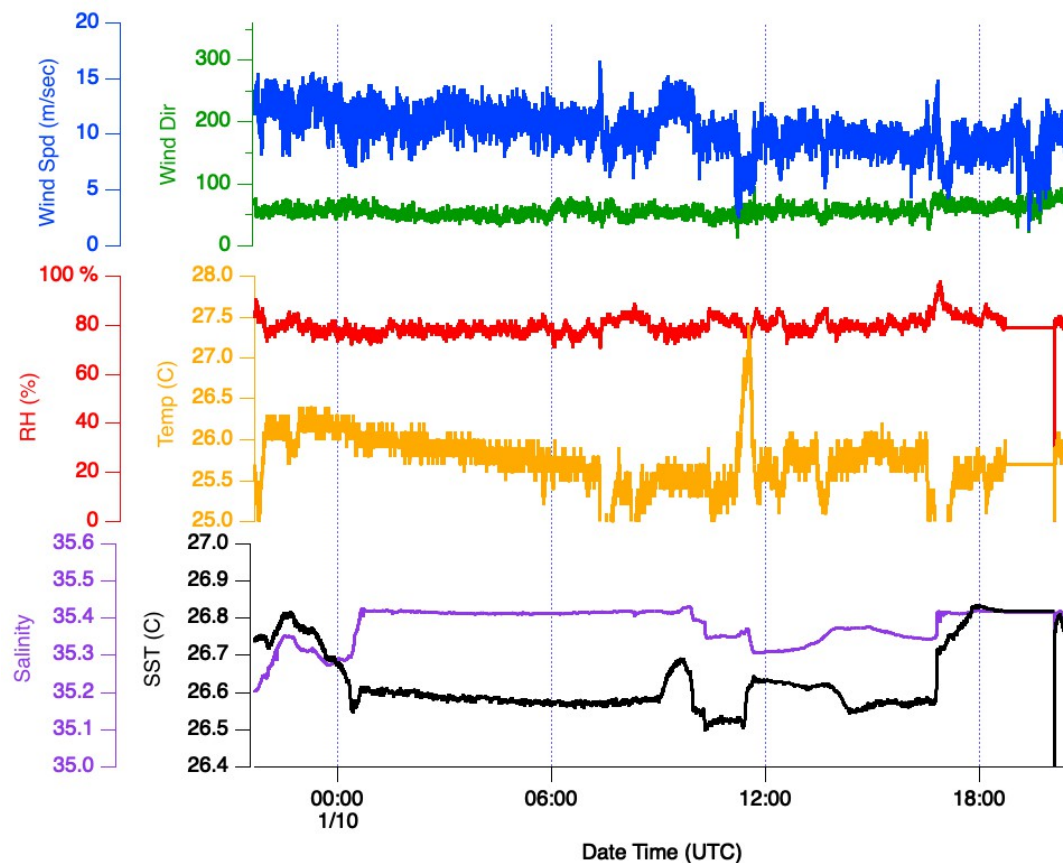
4. Instrument Status

All instruments operational.

5. Outlook

Heading to MOVE mooring (15.45N, 51.08W) 50 nm to the NW of NTAS. Will spend Saturday and Sunday (1/11 and 1/12) doing MOVE operations. We plan to keep the bow into the wind throughout and to continue atmospheric sampling and 4 hourly radiosondes.

6. Figures



Spikes larger than 600 in the figure below are from Brown's stack.

