

# Brown-0124 (24 January 2020)

Trish Quinn (Chief Scientist)

Compiled: 01.24 20:15 AST

## 1. Objective

Transited to our station 20 nm upwind of BCO. Arrived on station (13.15N, 59.083W) at 14:20 local. Turned the bow into the wind for atmospheric sampling. Radiosonde operations were suspended at 56W knowing that the Meteor was launching balloons in the region.

## 2. Synoptic Situation

Wind shift from NE to SE at 05:00 UTC but gradually shifted back to NE during our transit. Wind speeds stayed around 12 kts throughout the day. Calm seas with a sea state of 3 to 5. Sargassum observed.

Field	Quantity	Notes
RH	70.2, 3.2	18 m asl
Tair	26.1, 0.69	18 m asl
Wind	5.8, 0.89 m/s	18 m asl
SST	27.0, 0.29	5 m bsl
Salinity	35.4, 0.29	5 m bsl
Precipitable water		
CN	150, 50	
CCN	70, 20 @ 0.3%	
Dust	No indicator	
Trade Inversion		

## 3. Cruise-day Elements

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

## Cloud Observations: 01/24/20

Local Time (UTC -4)	Ship's Position	Coverage	Types	Codes	Remarks
0800	13°29'N 057°42'W	0/8 High	n/a		
		2/8 Mid	Ac	C <sub>M</sub> 3	
		2/8 Low	Cu, Sc	C <sub>L</sub> 1, C <sub>L</sub> 2	
1200	14°22'N 055°00'W	0/8 High	n/a		
		1/8 Mid	As	C <sub>M</sub> 7	
		2/8 Low	Cu, St	C <sub>L</sub> 1, C <sub>L</sub> 2	
1600	13°08'N 059°04'W	0/8 High	n/a		
		3/8 Mid	Ac	C <sub>M</sub> 3	
		5/8 Low	Cu, Sc	C <sub>L</sub> 2, C <sub>L</sub> 4	

### 4. Instrument Status

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

### 5. Outlook

Sitting 20 nm upwind of BCO until midnight (local) tomorrow then heading into Bridgetown for our in port.

### 6. Figures

Today's track:





