

Brown-0131 (31 January 2020)

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Compiled: 01.31 / 20:30 AST

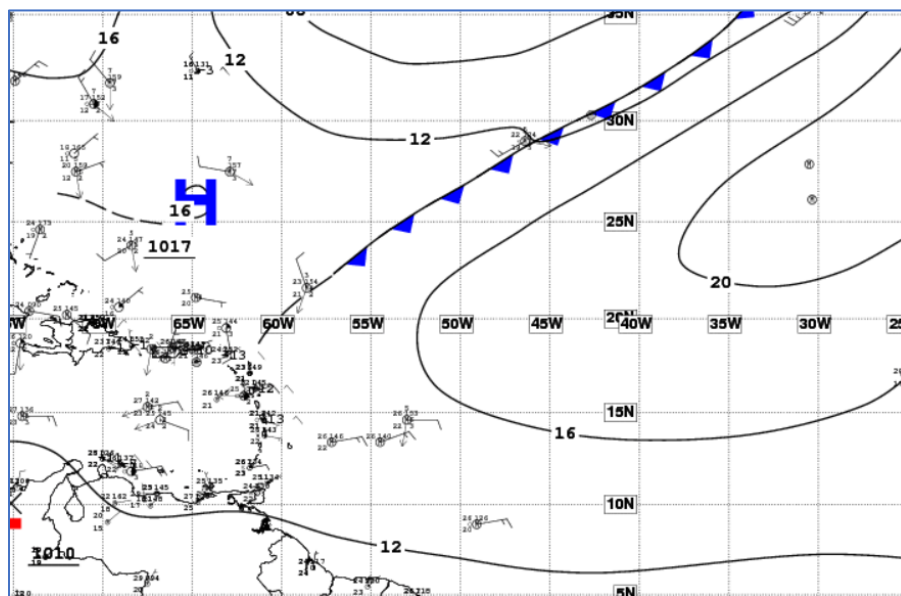
1. Objective

The Brown will remain on station at the P3Point (P3P - 13° 54' / 54° 30') to obtain continuous measurements of the aerosol, BL, clouds, and ocean properties.

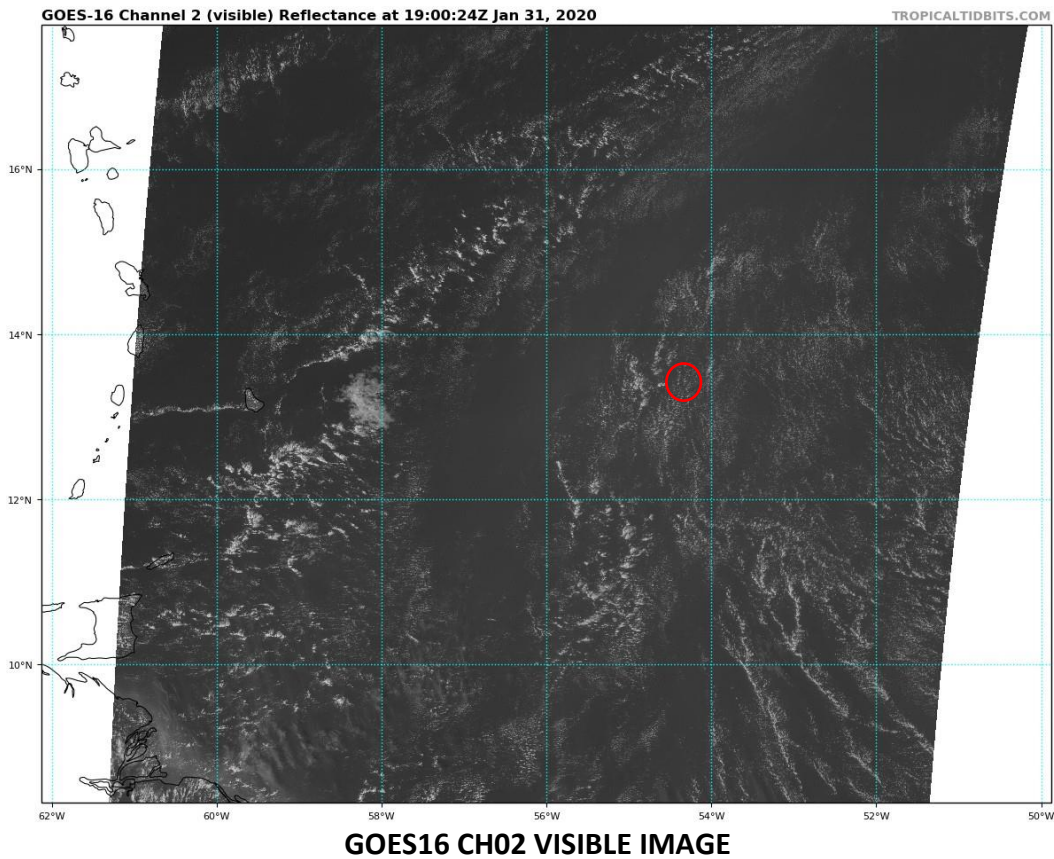
2. Synoptic Situation

Apart from a few intervals of cloudiness, hazy conditions prevailed. However, as depicted by a clearly visible horizon, most of the dust was aloft. Swells continued to peak near 2.0m while there was a reduction in wind speeds (averaging 12/13 knots).

Local Time (UTC -4)	Ship's Position	Coverage	Types	Remarks
800	13°54'N 054°29'W	0/8 High	N/A	Hazy conditions
		0/8 Mid	N/A	
		3/8 Low	Cu, Sc	
1100	13°53'N 054°25'W	0/8 High	N/A	Hazy conditions, VCSH (vicinity showers)
		0/8 Mid	N/A	
		7/8 Low	Cu, Sc	
1800	13°54'N 054°29'W°	0/8 High	N/A	Hazy conditions
		0/8 Mid	N/A	
		2/8 Low	Cu	



NHC/TROPICAL ANALYSIS AND FORECAST BRANCH 12Z ANALYSIS



3. Cruise-day Elements

Sondes launched every 4 hours around the clock from 0 UTC
 CTD to 400 m at 0900 AST
 uCTD's to ~150 m every odd-hour around the clock
 P3 flight 1130 AST – dropped sondes in circle pattern around Brown and AXBT's in lawnmower pattern.

4. Instrument Status

No changes from previous report: [W-band cloud radar and Picarro isotope analyzer are operational now since both were repaired/replaced during the port call. Microwave radiometer will not be onboard during leg 2. All systems are a “go”. Wave Glider RH sensor replaced with a spare Vaisala on 1.30 but wind sensor was damaged and no longer reporting winds.]

5. Outlook

The Brown will remain stationed at P3P (13° 54' / 54° 30') and oriented into the wind. Good dust event continues for aerosol observing. Next P3 flight anticipated on Feb 3rd. Regularly

deployed balloons, rosette CTD to 400 m at 0900 AST and uCTD to be lowered at odd-hour times throughout the 24 hour period will continue.

6. Figures

