

## Brown-0130 (30 January 2020)

Janet Intrieri (Chief Scientist)

Compiled: 01.30 / 20:30 AST

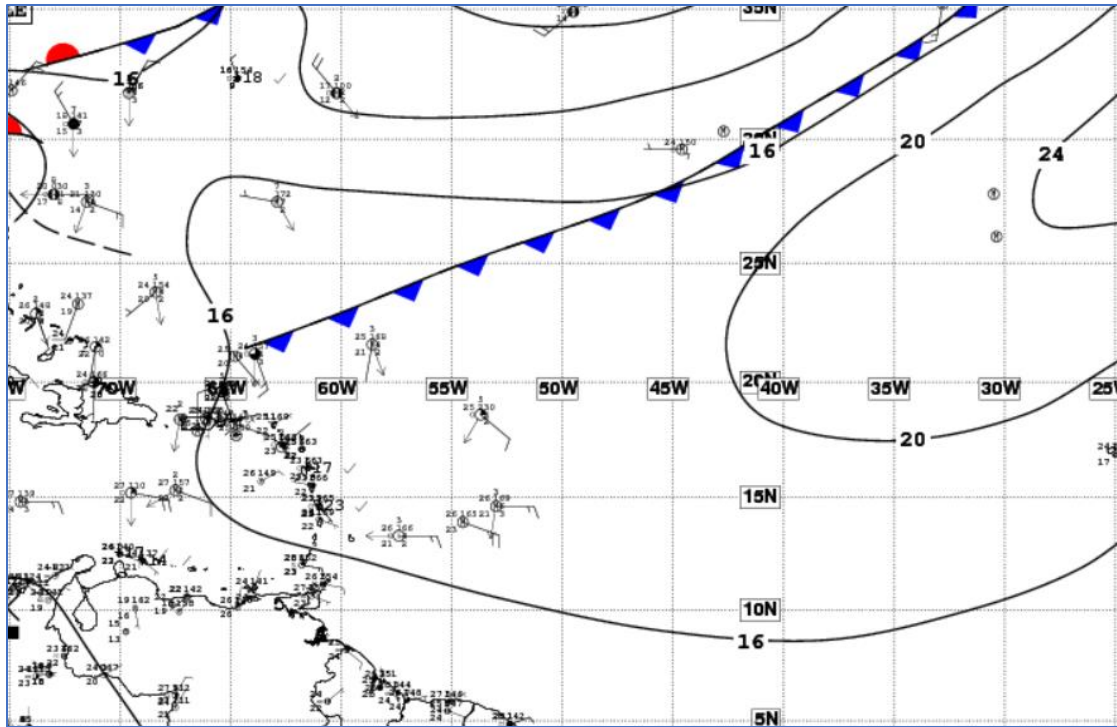
### 1. Objective

The Brown recovered one of the Wave Gliders this morning at 0830 AST to assess and replace the malfunctioning RH sensor. We then moved north to deploy 6 drifters (6 nm apart) and then headed back to the P3Point (P3P - 13° 54' / 54° 30'). The underway-CTD was lowered at each drifter deployment location and where the Wave Glider was redeployed at 1800 AST.

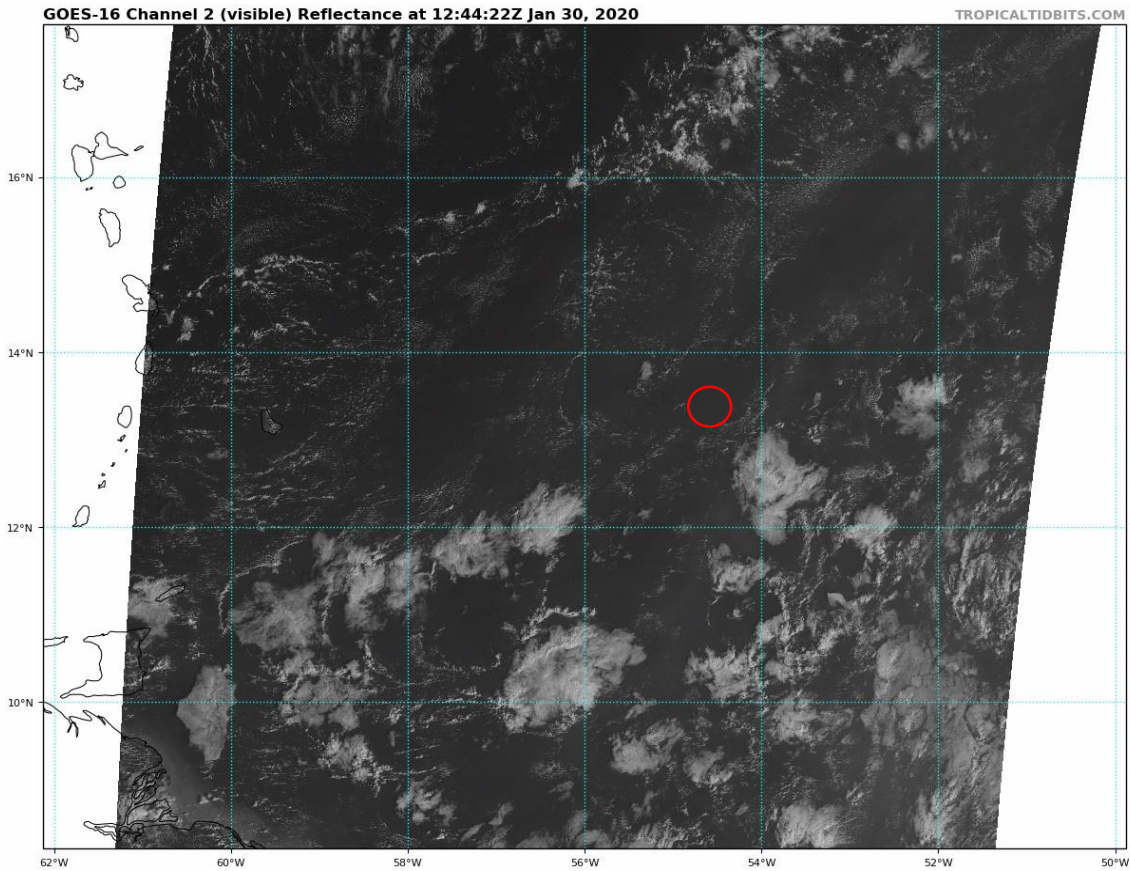
### 2. Synoptic Situation

Mostly sunny and clear skies throughout the day. Visibility was sharp despite a pending dust episode. Dust increased during the afternoon. Similar sea conditions persisted (1.5 m to 2.0 m) despite a slight increase in the wind speed average from 12 to 17 knots when compared to yesterday.

Local Time (UTC -4)	Ship's Position	Coverage	Types	Remarks
0800	13°56'N 054°27'W	0/8 High	N/A	Clearly defined horizon
		0/8 Mid	N/A	
		1/8 Low	Cu	
1100	14°10'N 054°44'W	0/8 High	N/A	Clearly defined horizon
		0/8 Mid	N/A	
		1/8 Low	Cu	
1800	14°04'N 054°37'W°	0/8 High	N/A	Light shower at time of observation
		0/8 Mid	N/A	
		3/8 Low	Cu	



**NHC/TROPICAL ANALYSIS AND FORECAST BRANCH 12Z ANALYSIS**



**GOES16 CH02 VISIBLE IMAGE**

### **3. Cruise-day Elements**

Sondes launched every 4 hours from 0 UTC  
Wave Glider recovered at 0830 AST  
Six Swift drifters deployed from 1130-1730 AST  
Wave Glider redeployed at 1800 AST

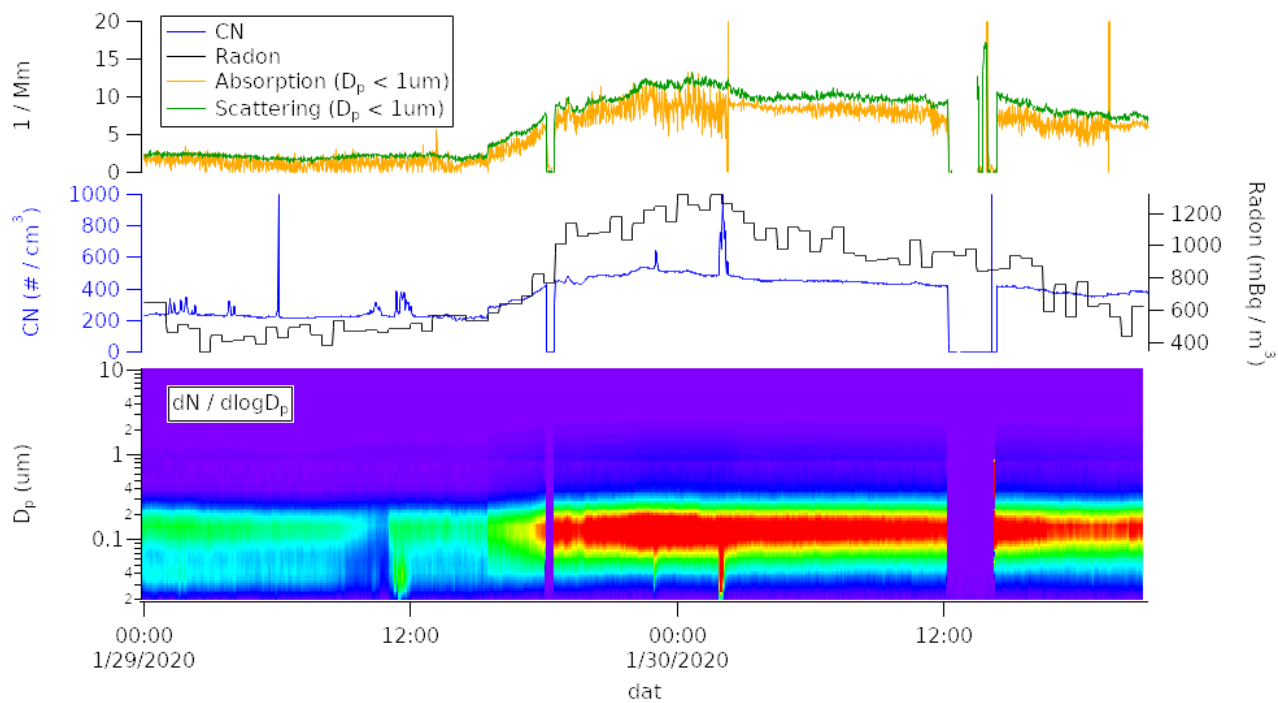
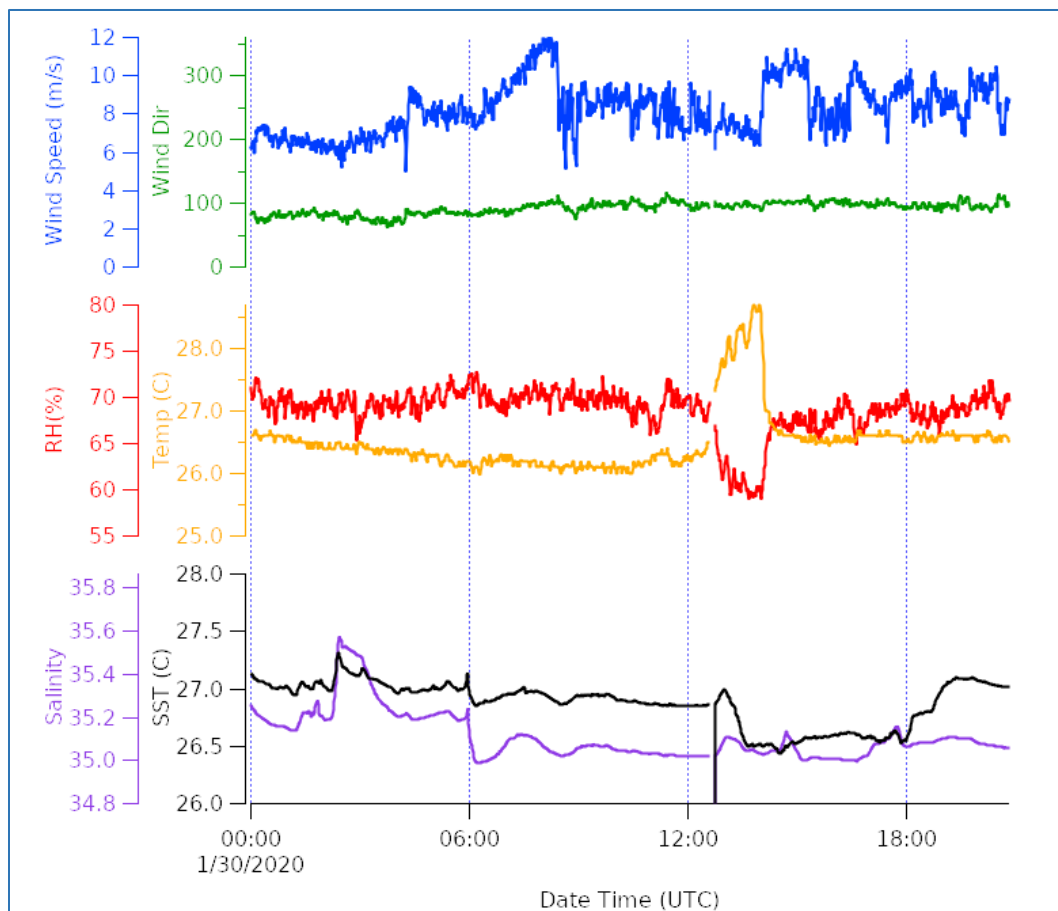
### **4. Instrument Status**

Wave Glider RH sensor replaced with a spare Vaiasala but the wind sensor was damaged and no longer reporting winds. No changes from yesterday with respect to ship-based measurements: [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”.]

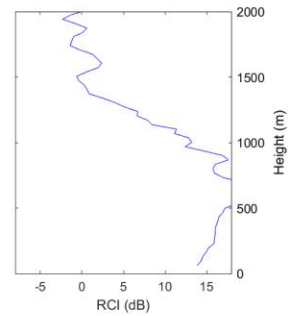
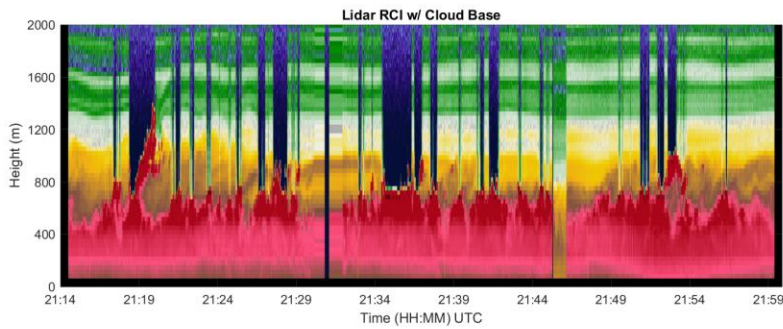
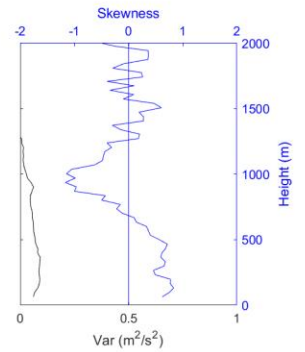
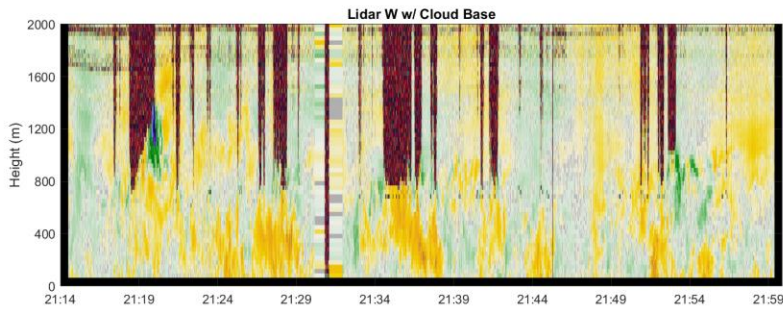
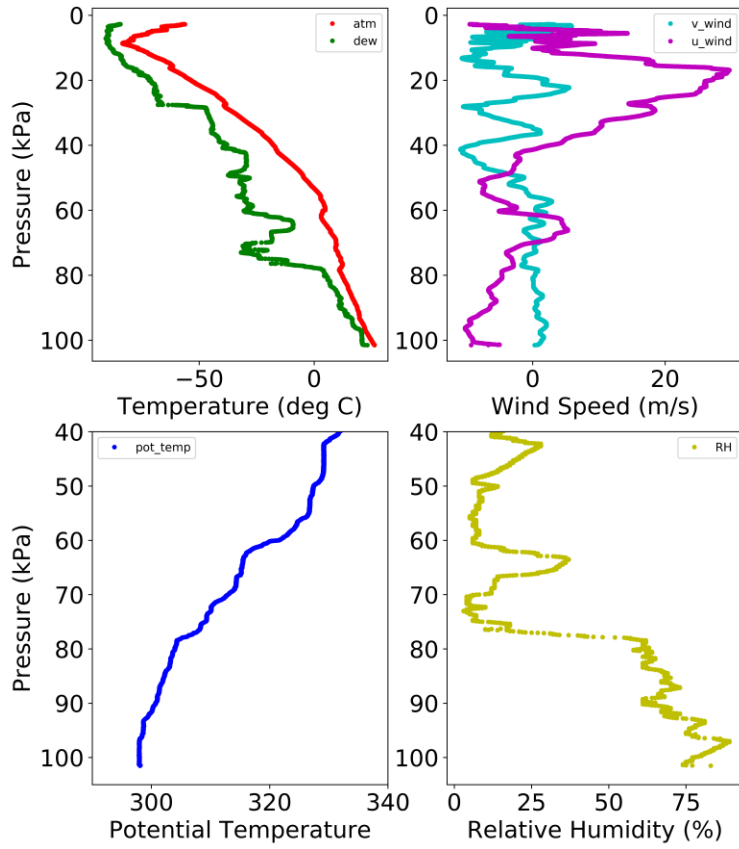
### **5. Outlook**

The Brown arrived at P3P (13° 54' / 54° 30') on Thursday evening at 1900 AST and oriented into the wind. Good dust event developing for aerosol observing. P3 flight anticipated on Friday Jan 31. Rosette CTD to 200 m at 0900 (now scheduled daily) and underwayCTD to be lowered at odd-hour times throughout the 24 hour period (now scheduled daily).

### **6. Figures**



2020-01-30 1044UTC



MicroDop Vertical Data - B: +Grd, G: -Grd, R: Var Yel:BLH Mag:CB - Init day: 30-Jan-2020 (#30)