RV Atalante EUREC4A-OA



Daily cruise report (26 January 2020)

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1. Objective

Today we went southwest, near the continental slope of Guyana to be able to sample a filament of fresh and (relatively) cold water ejected from the coast by the NB Ring 2, and this with a particular emphasis on the atmosphere. We crossed this front a second time, at low speed to launch 13 radiosondes and acquire information on the 2D structure of the atmosphere above the front. By the way, CLS satellite SST match extraordinarily well with surface temperatures measured by the underway system of the ship (see figure below), especially at night. All instruments seem to work well. We have fixed the problem of the Vaisala radiosonde system by

All instruments seem to work well. We have fixed the problem of the Vaisala radiosonde system by using a new GPS antenna provided by the board.

2. Synoptic Situation

Dry air with moderate trade winds.
Fair weather with mostly high clouds.
Easterly wind 10kt. The waves are about 2-3 feet.
Mesoscale cloud patterns (18utc):

Cloud observations: 01/25/20

Time (local)	Coverage	Types	remarks
0800	7/8 High	Ci	
	0/8 Mid	-	
	1/8 Low	Cu	
1200	7/8 High	Ci	
	0/8 Mid	-	
	1/8 Low	Cu	
1600	7/8 High	Ci	
	5/8 Mid	Ac	
	1/8 Low	Cu	

Inter-calibration: No intercalibration today.

Stations:

stations.							
Date	Approx Local Time	Operation		Lon			
26/01	00:00	Southwestward leg to waypoint, speed: 8 kts		59°W			
25601		Continuous uCTD at 8 kts					
26/01	02:45	Radiosounding					
26/01	06:45	Radiosounding					
INTENSE ATMOSPHERE RADIOSOUNDING SECTION							
26/01	08:30	Take a eastern leg to waypoint speed 8 kts	9°24'N	58°48'W			
26/01		Continuous MVP (Michel) at 8 kts					
26/01	10:30	Take a eastern leg to waypoint speed 2.6 kts	9°24'N	58°24'W			
	Intensive Atmospheric Radiosounding (1 every 40 min)						

Autonomous systems deployed: We have deployed and recovered after 7 hours OCARINA & PICCOLO, we have deployed our SeaExplorer Glider and one NOAA drifter.

Overflights: No overflights. We are too far south.

4. Instrument Status

Everything works well.

5. Outlook

Tonight we are sailing estward, till 9° 24'N 56°55'W to cross (and sample) Ring2. We will be in its center tomorrow evening.

6. Figures

