



Daily cruise report (06 February 2020)

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1. Objective

The eddy hunt revealed to be somewhat more complex (the eddy we and the Maria S Merian partially sampled was not anymore in the location we initially found it). This is why, yesterday night, we decided to sail northwestward instead of southeastward along the continental slope, following the small new spawn (a “pizza“ one?) ring whose presence has been detected by satellite altimetry which, actually (according to satellite images) intensified today. Preliminary results suggest we were not wrong.

2. Synoptic Situation

Quite strong trade winds.

Sunny morning, then more cloudy on the afternoon, with some showers on the area.

Northeasterly wind 20kt. The waves are about 5-6 feet.

Mesoscale cloud patterns (18utc): sugar



Time (local)	Coverage	Types	remarks
0800	0/8 High	-	
	0/8 Mid	-	
	1/8 Low	Cu	
1200	0/8 High	-	
	0/8 Mid	-	
	4/8 Low	Cu	
1600	0/8 High	-	
	2/8 Mid	Ac	
	3/8 Low	Cu, TCU, Cb	Shower on the area

Inter-calibration: No intercalibration.

Autonomous systems deployed: None

Overflights: No overflights. We are too far south.

3. Stations

Date	Approx Local Time	Operation	Lat	Lon	NM	Operations
Revisiting the deep Ring3						
06/02	+36h (15h transit + 21h operations)	From WP2 to WP3 (9°34'N 54°48'W) speed 8 or 9 kts during transit, 6 kts during uCTD	9°34'N	54°48'W	64	Repeating a cycle of 1 uCTD followed, after 6NM, by a VMP+CTD, then a UCTD again after 6

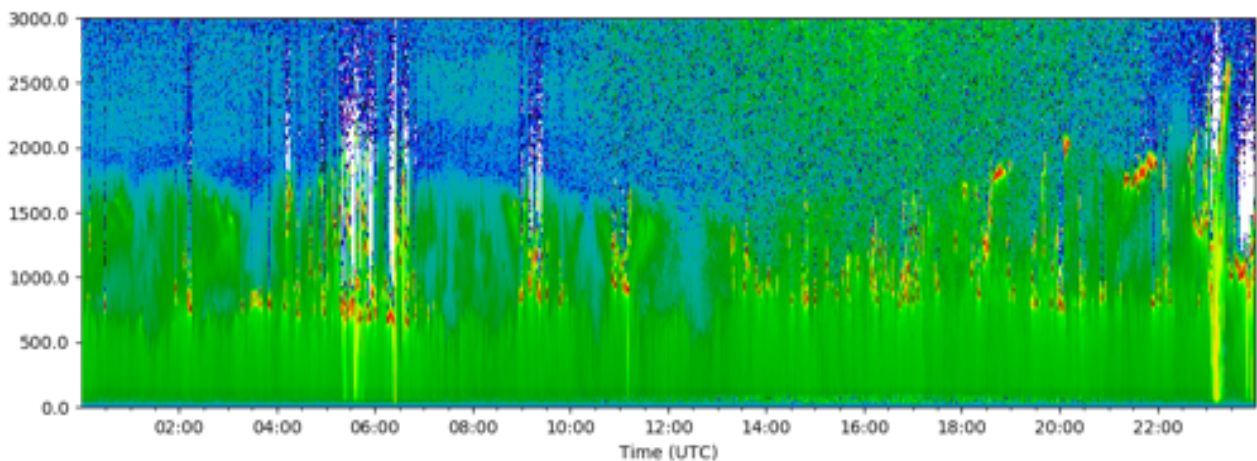
4. Instrument Status

All instruments seem to work well. Today Vaisala radiosounding reception was more stable.

5. Outlook

We will continue to sail northwestward until reaching the external edge of of the newly spawn Ring3 with an intense survey of VMP, CTD and uCTD profiles.

6. Figures



Celiometer R/V Atalante 6 February 2020



