



Daily cruise report (12 February 2020)

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1. Objective

We are now almost at the end of the Ring2s venture. The deep Ring did not practically moved since we captured it the first time on the contrary to the "Pizza" one who, is slowly moving north. Very likely the two Ring2s interact despite the very intense stratification that separate very sharply their interface. Unfortunately the rosette winch has to be stopped and we cannot use anymore, since this morning. We were however able to complete the sampling thanks to XCTDs, the VMP and the uCTD. We will deviate our course soon to recover tomorrow in the early morning our Kraken, the glider.

Radiosondes have been launched every 4 hours.

Last measurement: 12-Feb-2020 19:04:11 (UTC)

Days of travel: 22.8906

Miles covered: 2406.1845

Mean speed (kn) : 4.3799

CTD casts: 63

UCTD stations: 206

XBT stations: 28

VMP stations: 55

MVP casts: 1420

ARGO deployments: 5

MVP casts: 1420

Glider dives: 795

Radiosoundings done: 165

Buoys deployed: 13

2. Synoptic Situation

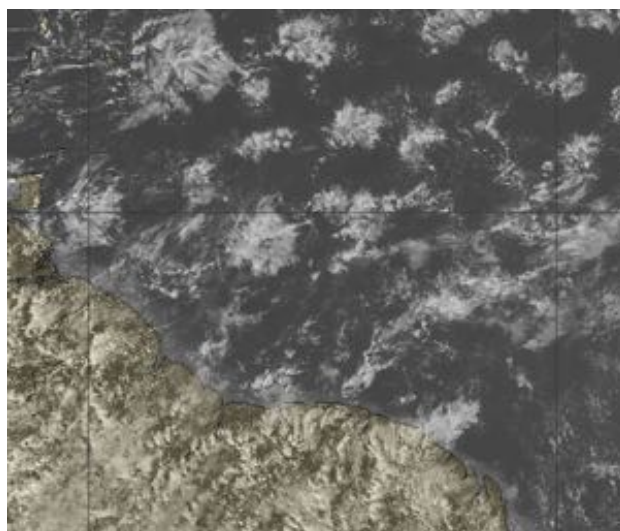
Moderate trade winds quite wet.

Cloudy today with some showers on the morning, dryer on the afternoon but still cloudy.

East-northeasterly wind 20-25kt. The waves are about 8-9 feet with a northeasterly swell.

Mesoscale cloud patterns (18utc): flowers

Isolated sargassums.



Time (local)	Coverage	Types	remarks
0800	0/8 High	-	
	4/8 Mid	Ac	
	7/8 Low	Cu-Sc, TCU	Showers on the area
1200	3/8 High	Ci	
	0/8 Mid	-	
	2/8 Low	Cu	
1600	3/8 High	Ci	
	5/8 Mid	Ac	
	3/8 Low	Cu-Sc	

Inter-calibration: None.

Autonomous systems deployed: None

Overflights: No overflights. We are too far south.

3. Stations

Date	Approx Local Time	Operation	Lat	Lon	NM
Revisiting the deep & surface Ring2 and cyclones					
From 11/02 5:00 to 13/02 5:00	From 06:00 + (24h of transit + 21h operations CTD & VMP 10 search of Kraken)	From WP7 (9°18'N 58°48'W) to WP8 (11°25.41'N 57°2.87'W) 6 NM VMP+CTD to 1000 m stations & 6 NM uCTD & 6 NM VMP+CTD to 1000 m stations & 6 NM uCTD 9 kts during transit, 6 kts during uCTD	11°25.41'N	57°2.87' W	163

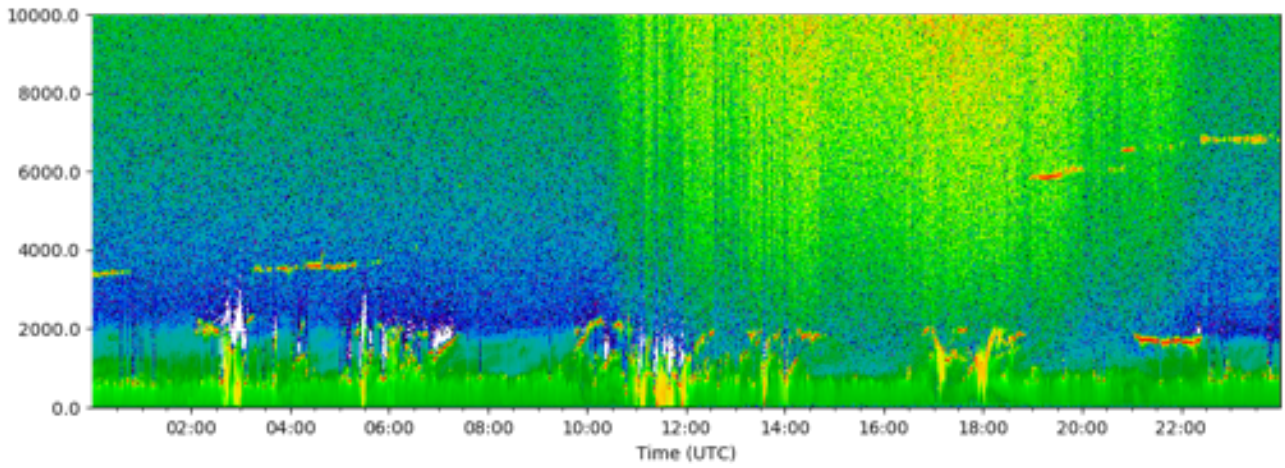
4. Instrument Status

With the exception of the rosette/CTD winch and the glider who lose its ballast, all other instruments seem to work well. Today, due to the intense wind burst, we lost one Vaisala radiosonde.

5. Outlook

We will continue to sail according to our workplan.

6. Figures



Celiometer R/V Atalante 12 February 2020

