



Daily cruise report (15 February 2020)

Sabrina Speich, Chief Scientist

1. Objective

Today, have sampled the submesoscale filament located south of Barbados and we are heading to the final section across the northern mushroom-like structure. We have recovered and redeployed without the Surpact sensors one of the French drifter. Radiosounding continued every 4 hours. The last Vaisala radiosonde will be launched from the Atalante tonight 10:45pm LT.

2. Synoptic Situation

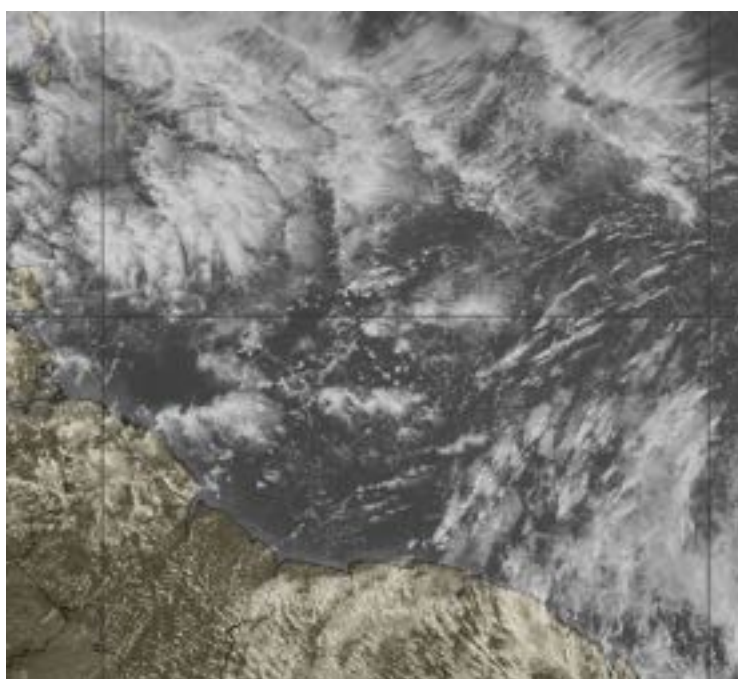
Moderate trade winds with high clouds.

Very cloudy today with altocumulus layer.

East-northeasterly wind 15-20kt. The waves are about 6-7 feet with a northeasterly swell.

Mesoscale cloud patterns (18utc): difficult to determinate with the high clouds

Sargassum appears now very frequently as structured lines and patches.



Time (local)	Coverage	Types	remarks
0800	-8 High	-	
	8/8 Mid	Ac	virga
	1/8 Low	Cu	
1200	-/8 High	-	
	7/8 Mid	Ac	
	2/8 Low	Cu	
1600	-/8 High	-	
	8/8 Mid	Ac	
	4/8 Low	Cu	

Inter-calibration: None.

Autonomous systems deployed: 1 French drifter recovered and redeployed without the Surpact sensors.

Overflights: No overflights. We are too far south.

3. Stations

Date	Approx Local Time	Operation	Lat	Lon	NM	Comm
14/02	From 22:00 +9h	From WP3 (12°N 59°10'W) to WP4 (11°9.7'N 59°10'W) MVP 6 kts	11°9.7'N	59°10'W	50	
15/02	From 7:00 + 19h	From WP4 (11°9.7'N 59°10'W) to WP5 (12°36'N 57°48'W) Transit between stations 9 kts, uCTD every 6NM, at 6kts, 1 VMP every 18 NM	12°36'N	57°48'W	123	
Recovery and redeployment of two French drifters						
16/02	From 2:00 + 14h	From WP5 (12°36'N 57°48'W) to WP6 (12°36'N 59°12'W) MVP 6 kts	12°36'N	59°12'W	89	
16/02	From 16:00 + 4h	From WP6 (12°36'N 57°48'W) to upwind of BCO (13°9.2730'N, 59°25.2610'W) Transit, full speed	13°9.2730' N	59°25.2610'W	40	BCO: Barbados Cloud Observatory
16/02	From 20:00 + 4h	@ BCO (13°9.2730'N, 59°25.2610'W) In station for 4 or more hours	13°9.2730' N	59°25.2610'W		BCO: Barbados Cloud Observatory

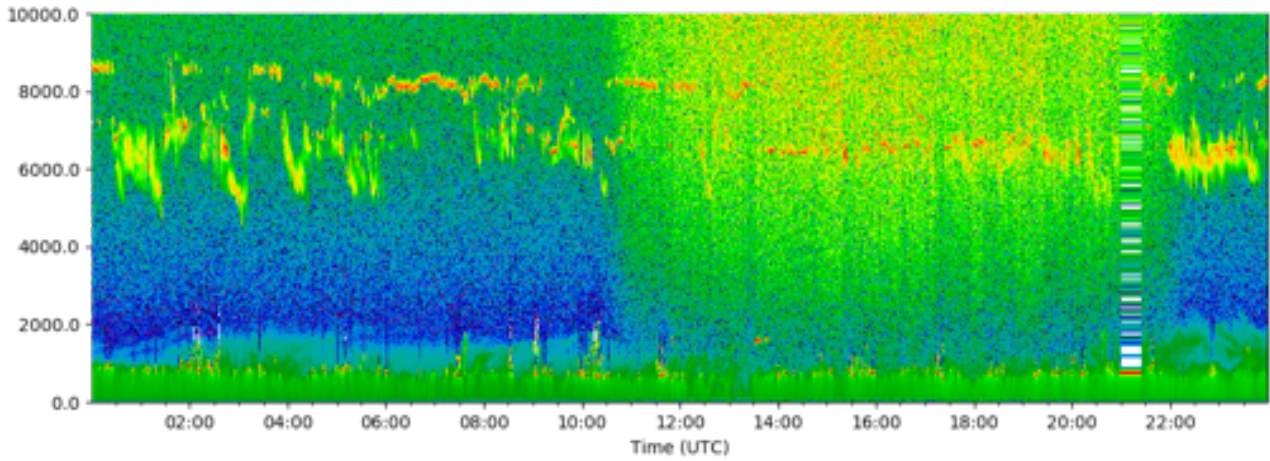
4. Instrument Status

With the exception of the rosette/CTD winch all other instruments seem to work well.

5. Outlook

We will continue to sail according to our workplan.

6. Figures



Celiometer R/V Atalante 15 February 2020

