



## Daily cruise report (10 February 2020)

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### 1. Objective

Completed first transect of the deep NBC Ring2. Submesoscale MVP and uCTD transects after deployment of OCARINA, PICCOLO and three TRUSTED surface drifters in Trinidad and Tobago southeast open-ocean waters. Recovery of all these platforms in the late afternoon. Sailing now to the second Ring2 transect initial waypoint. Radiosondes have been launched every 4 hours.

### 2. Synoptic Situation

Moderate trade winds.

Mostly sunny weather.

East-northeasterly wind 15-20kt. The waves are about 5-6 feet with a northeasterly swell.

Mesoscale cloud patterns (18utc): mostly sugar over our area.

Some isolated sargassums.



Time (local)	Coverage	Types	remarks
0800	0/8 High	-	
	0/8 Mid	-	
	4/8 Low	Cu	
1200	0/8 High	-	
	0/8 Mid	-	
	2/8 Low	Cu	
1600	0/8 High	-	
	0/8 Mid	-	
	3/8 Low	Cu	

**Inter-calibration:** Intercalibration uCTD and CTD.

**Autonomous systems deployed:** Deployment and recovery of OCARINA & PICCOLO, 3 TRUSTED drifters

**Overflights:** No overflights. We are too far south.

### 3. Stations

Date	Approx Local Time	Operation	Lat	Lon	NM
<b>Revisiting the deep &amp; surface Ring2 and cyclones</b>					
08+1 0/02	+ 44h (20 transit, 24h operations)	VMP+CTD & uCTD sampling transect to WP4 (10°28.7'N 59°21'W, alias the "Pizza Napoletana" waypoint) 9 kts during transit, 6 kts during uCTD Alternate 1 uCTD, 1 VMP+CTD every 12 NM i.e. uCTD -6NM-VMP-6NM-uCTD-6NM-VMP-etc	In route to 10°28.7'N	In route to 59°21'W	
10/02	From 6:00 wherever we are	Deployment of the French drifters with a distance of 500m/1 km from each other	In route to 10°28.7'N	In route to 10°28.7' N	
10/02		Déploiement de OCARINA & PICCOLO	In route to 10°28.7'N	In route to 59°21'W	
10/02	From 7:00	Go from OCARINA & PICCOLO deployment position to WP5 (10°36'N 59°12'W) full speed	10°36'N	59°12'W	10.5
10/02	From 8:00	Go from WP5 (10°42'N 59°6'W) to WP6 (10°24'N 58°48'W) with MVP (Michel) 6 kts	10°24'N	58°48'W	26
10/02	From 12:00	Go from WP6 (10°24'N 58°48'W) to approx. (to where OCARINA & PICCOLO are, near approx WP4, 10°28.7'N 59°21'W) uCTD every 30'	Approx. 10°28.7'N	Approx 59°21'W	35
10/02	From 17:00	Recovery of the 3 French drifters			
10/02	19:00	1 CTD 1000 with attached the uCTD sondes for calibration If possible the CTD dive speed should be as fast as 2 or 3 m/s			
10/02	From 20:00	From the OCARINA & PICCOLO recovery point to WP7 (9°18'N 58°48'W) Transect without observations across the Venezuela EEZ full speed	9°18'N	58°48'W	81
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

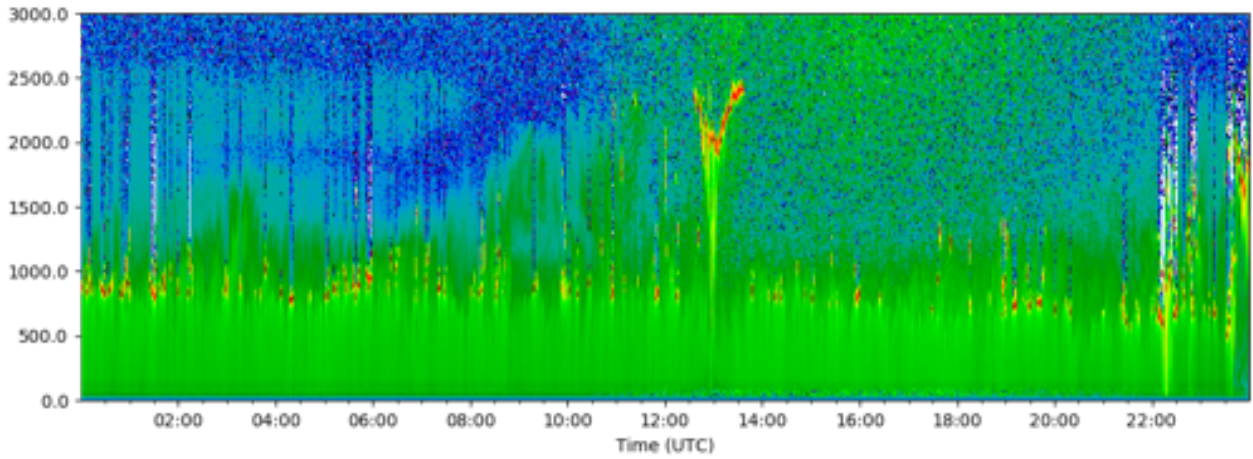
### 4. Instrument Status

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

### 5. Outlook

*We will continue to sail according to our workplan..*

## 6. Figures



Celiometer R/V Atalante 10 February 2020

