



Daily cruise report (09 February 2020)

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1. Objective

Still in Guyana waters now close to Trinidad and Tobago EEZ. Continuing to sail and collect ocean-atmosphere information across Ring2. Tomorrow we will have completed the first transect across the deep (“groundhog”) eddy and its surface (“pizza”) counterpart.

We launched tonight the 150th radiosonde!

2. Synoptic Situation

Moderate trade winds decreasing tomorrow and becoming wetter.

Sunny and cloudy periods.

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

Mesoscale cloud patterns (18utc): mostly sugar.

Some isolated sargassums.



| Time (local) | Coverage | Types | remarks |
|--------------|----------|---------|---------|
| 0800 | 0/8 High | - | |
| | 1/8 Mid | Ac | |
| | 5/8 Low | Cu, TCU | |
| 1200 | 0/8 High | - | |
| | 0/8 Mid | - | |
| | 2/8 Low | Cu | |
| 1600 | 0/8 High | - | |
| | 0/8 Mid | - | |
| | 4/8 Low | Cu | |

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 |
|---|------------------------------------|---|-----------|------------|-----|
| Revisiting the deep & surface Ring2 and cyclones | | | | | |
| 08/02 | 00:00+0.5h | VMP (400 m) | 8°34.4'N | 56°W | |
| 08/02 | +2h | CTD 2000m | 8°34.4'N | 56°W | |
| 08/02 | + 15h | From WP2 (8°34/4'N 56°W) to WP3 (9°21'N 57°22,4'W) 9 kts during transit, 6 kts during uCTD Alternate 1 uCTD every 30', 1 VMP every 2h | 9°21'N | 57°22,4' W | 90 |
| 08/02 | +0.5h | VMP 400 m | 9°21'N | 57°22,4' W | |
| 08/02 | +2h | CTD 2000m | 9°21'N | 57°22,4' W | |
| 08-10/02 | + 44h (20 transit, 24h operations) | From WP3 (9°21'N 57°22,4'W) to WP4 (10°28.7'N 59°21'W) 9 kts during transit, 6 kts during uCTD Alternate 1 uCTD, 1 VMP+CTD every 12 NM i.e. uCTD -6NM-CTD+VMP-6NM-uCTD-6NM-VMP+CTD-etc | 10°28.7'N | 59°21'W | 140 |

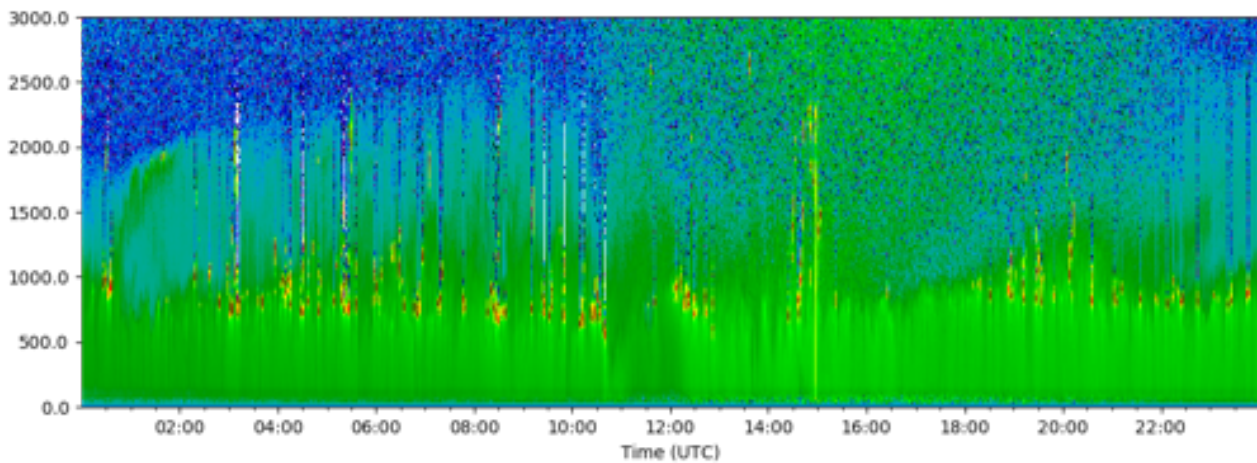
4. Instrument Status

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 9 February 2020

