

OPS-0124 (24 January 2020)

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(compiled 01.24. 12:00 LT)

1. Facility updates

- **Local logistics:** An additional meeting room for groups up to 10 persons is now available in the CA office area. Larger groups please use the downstairs room. The fast internet connection to the OPS center is now available. We are working on a screen and a projector. A coffee machine is available in the office area of CA.
- **ATR-42:** Aircraft ready, but technical problems with some scientific instruments, some of which are being mounted for the very first time. The 2nd test-flight is planned for Saturday, if possible 1st scientific flight possible on Sunday.
- **BOREAL and Skywalkers:** Getting ready for the first scientific flight on Sunday.
- **HALO:** Took off today 5:30. All instruments work well. Plan are for dropsonde circles and 2 coordinated flights with the Twin Otter and with the P3 flight.
- **Twin Otter:** First coordinated scientific flights with HALO today with the first take-off at 07:30 LT, a refueling and a second flight thereafter.
- **WP-3D:** The team is still waiting for a computer spare part for the cloud physics instrument. TO today 09:30 LT. Plans are for 1.5 dropsonde circles around the Ron Brown (16 dropsondes) and a HALO circle with 90 km radius. No dropsondes will be dropped in the HALO circle. Further race track patten for cloud profiling is planned East of Meteo. After this flight P3 needs to go to Floria for maintenance and will return in about a week.
- **BCO:** All systems are up and running. Construction work for PoldiRad continues. Measurement at Ragged point are all running now. May need people to help with containers on Saturday.,
- **L'Atalante:** Yesterday sailed south crossing the first cyclonic and anticyclonic eddies, the latter a beautiful North Brazil Ring, located south of Barbados where we are reaching the center. Characterized them with measurements from our CTD Rosette, uCTD, MVP, XBTs, pCO₂, and ADCPs while, in parallel, the overlying atmosphere was sampled by our first regular radiosounding (at 14:45 UT), atmospheric mast, aerosols spectrometer, ceilometer and cloud camera.. At Midnight local time, position is 17°23.03'N 58° 24.69' not too far from the RV Maria S Merian.
- **Maria S. Merian:** Continue eddy survey – crossing west to east through the determined centre (vertical structure 0- 2000m depth with CTD; and MSS dissipation 0-150m for flux estimate). Radiosounding every 4h. Deployment of two underwater drones (glider) at northeastern side of eddy (expected survey time 4 weeks). First launch of Cloudkite with advanced sensor package (MPCK+). Deployment of SVP drifter in Vmax region. Waiting for Guyana clearance to enter EEZ.
- **Meteor:** Yesterday gilder deployments at 14.182N, 57.338W followed by CTDs around the 10x10km no-go glider area. UAV quadcopters filmed the gilder deployment and profiled temperature. 7 radiosondes were launched. Today in the morning after the early MPI-MM CTD probes, the cloud-kite launch and retrieval operation will be tested (without instruments) to familiarize the crew. If going smoothly, a launch with instruments is planned. Otherwise, the Meteor proceeds southward from L1 on its latitude with regular CTD stops and radiosondes launches. No coordinated activities are expected.
- **Ron Brown:** Yesterday arrived at 14.383N and 55W at 6:30 am local time. It was a downwind run so were not able to conduct atmospheric measurements. Once on station, turned bow into the wind for atmospheric sampling. This station was at the center of today's P3 dropsonde circle. The P3 did an overflight at 500' above the Brown at 11:40 local. Left the station at 18:00 local and started our transit to the next station upwind of BCO. Radiosondes every 4 hours. Transiting overnight to 13.248N and 59.03W to be 20 nm upwind of BCO by 13:00 LT today. Will sit at this station until local midnight on Jan. 25.
- **Autonaut:** AutoNaut Caravela was launched Wednesday and was heading east, south of the island. No update today.
- **CloudKite:** see METEOR and Maria S.Merian reports

2. Plans

Outreach group is planning a first set of talks today at 15:00 LT at CIMH. There will be 4 presentation of 15 min. Plans are for a post-seminar at Oistins or similar.

There are also outreach activities planned at schools in week 3 and 4 on Mondays, Tuesdays and Thursdays. Input suitable for age group 10-12 and 13-15 is needed.

Next weekend a symposium is planned with the title: "From BOMEX to EUREC4A" from Friday afternoon to Saturday at the University of the West Indies. An additional outreach activity with site visits is planned for Sunday.

3. Issues