

OPS-0128 (28 January 2020)

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(compiled 01.29. 18:00 LT)

1. Facility updates

- **Local logistics:**
- **ATR-42:** Plans were for 2 coordinated flights today, but technical issues only allowed for the second flight with take-off at 16:30 LT. Similar flight pattern as Sunday, with lags 2.5 km, at cloud-base height, sub-cloud layer and surface lag. Plans for short (4h) coordinated flight on Thursday with take-off at around 07:00.
- **RAAVEN, BOREAL and Skywalkers:** All three UAS teams have conducted successful flights over the past days. This includes the NOAA/CU RAAVEN team and the CNRM BOREAL and X6 Skywalker teams.
- **HALO:** Take-off today 11:00 LT for coordinated flight with TwinOtter and ATR. Pattern planned are similar to Sunday (2 times 3.5 dropsonde circles with excursion), but with different excursion towards NTAS buoy. Ground-Day tomorrow. Next coordinated flight planned for Thursday (4h), planned take-off 07:00 LT.
- **Twin Otter:** Two coordinated flights with HALO and ATR today. First take-off today at 09:30. Refueling around noon. Flight pattern similar to Sunday, but no super curtain. No flights in darkness.
- **WP-3D:** Return delayed by one day, still next scientific flights planned for Thursday and Friday. 4 day flights (take-off 09:30 LT, nominal duration 8h), followed by 3 night flight (take-off 20:00 LT) remain. Thursday's flight will focus on cloud micro physics, with higher dropsonde circles around Ron Brown. Coordinated flights also with inner HALO circle are possible for later flights. Plans to have PLANET available for the WP-3D.
- **BCO:** All systems are up and running. Construction work for PoldiRad continues, the antenna is now mounted. Measurements at Ragged point are all running as well.
- **L'Atalante:** Yesterday began the Ring2 journey. Started to cross its boundary in the night to yesterday and visited its center which is, as expected and shown by the satellite SST CLS maps, warmer than the waters closer to the Guyana continental slope. Started to look at atmospheric time series from different instruments (the ceilometer, the atmospheric mast, OCARINA and PICCOLO deployment). Sampled by chance and with different transects a very intense subsurface anticyclonic eddy lying westward of Ring 2. This night sailing eastward to sample the other half of Ring 2.
- **Maria S. Merian:** Had internet problems, solved now, but no update, yet.
- **Meteor:** First longer cloud kite data-set. Learning the cloud kite limitations. Regular CTD every couple of hours and launching radiosondes at 2.45, 6.45, 10.45, 14.45 and 22.45 UTC. After taking a MPI-MM water probe at 2am at the southern end of the HALO track headed northward with regular CTD stops. Drifted off the track to the west to permit a 2hr track in the ENE (against the wind) direction for another cloud kite instrument test (still without the particle probe due to weight issues). Cloud kite aloft test in a stopped mode was successful, so that with sufficiently strong winds the cloud kite instrument could be kept in the air - even at station stops. After returning to the central track continued in our northerly progress towards L1 with regular CTD casts.
- **Ron Brown:** In Bridgetown port. Leaving Bridgetown at 16:00 local on Tuesday, Jan. 28. for a 16 day cruise. Plans are to sail toward 55 W and deploy SWIFTS along the way. Will stay on position on 55W and south of the line between the center of the HALO circle and the NTAS buoy for a number of days and on return pick up the SWIFTS. Isotopes instruments are up now as well as the W-band radar.
- **Autonaut:** AutoNaut Caravela was launched Wednesday and was heading east, south of the island. PLANET shows position East of Barbados.
- **CloudKite:** see METEOR and Maria S. Merian reports

2. Plans

The outreach activities for presentations at schools in week 3 and 4 on Mondays, Tuesdays and Thursdays continue. Input suitable for age group 10-12 and 13-15 is still needed.

No seminar tomorrow at CIMH. Next seminar Friday in 1.5 weeks.

This weekend a symposium is planned with the title:

„From BOMEX to EUREC4A“ from Friday afternoon (starting 14:30 LT) to Saturday (starting 09:30 LT) at CIMH.

An additional outreach activity with site visits is planned for Sunday 14-17 LT.

(Site crews, please make sure the sites can be visited or please report if not possible!)

Plans for Movie Night for February 4th, location tbd.

Barbecue for this Thursday confirmed afternoon at Miami Beach.

3. Issues

no issues

4. Flight Alert

Tuesday 28 January 2020

- coordinated flights with ATR-42, Twin Otter and HALO are planned.
- P3 will not fly. Planes will be in the Alley between 09:30LT-21:00LT;
- Contact points are: Raphaela Vogel (ATR) <raphaela.vogel@mpimet.mpg.de> and Marcus Klingebiel(HALO) <marcus.klingebiel@mpimet.mpg.de>. They can also contact the Twin Otter.

Wednesday 29 January 2020

- no flights are planned.

Thursday 30 January 2020

- short flights (approx. 4h) with HALO and ATR, take-off 07:00 LT +/- 1h
- P3 take-off planned 09:30 LT, 8h nominal flight time
- Planes will be in the Alley between 06:00 LT and 18:00 LT!
- Contact Points tbd.