

# OPS-0209 (09 February 2020)

Lutz Hirsch

(compiled 09.02. 12:00 LT)

## 1. Facility updates

- **Local logistics:** Please, if you drink coffee donate into the large box next to the coffee machine.
- **ATR-42:** Today (09/02/2020): 2 flights - take off at 4:30am and 10am - first coordinated with the TO and HALO, second coordinated with RSS. Tuesday (11/02/2020): tentative still - take off at 1am and 6:30am - coordinated with the P3 and with the HALO (2nd flight only). Thursday (13/02/2020): 2 flights - take off at 3:30am and 9am - coordinated with the TO and HALO
- **RAAVEN, BOREAL and Skywalkers:**
- Boreal: no update available, but in the air as seen in PLANET.
- Skywalker: Friday 07 February: tracking of a cloud by adaptive sampling in the morning. Did not manage to chase clouds in the afternoon, too small cloud fraction. Saturday 08 February: adaptive sampling of a cloud with two UAV at a time.
- Raaven: Will always do the same pattern: one vertical profile up to 1000m and then legs of approx. 2km at different levels in the boundary layer.
- **HALO:** Coordinated flight today with take-off 05:00 LT. Day-off on Monday. Coordinated flight on Tuesday with take-off at 08:30LT. Pattern 6 drop-sonde circles, excursion, GPM overpass on way back.
- **TwinOtter:** Today coordinated flights as planned, take-off at 07:00 LT and 11:30 LT. Monday planned single flight; take-off at 09:00 LT until 14:00 LT. Tuesday two coordinated flights with take-offs at 08:00 LT and 12:30 LT.
- **WP-3D:** Night flights (takeoff time 20.00 local, Monday 24:00 under discussion) on Saturday, Sunday and Monday. Please note the larger diameter of the first dropsonde circle (2.2 degrees). The diameter of the second dropsonde circle is unchanged (1.62 degrees). Circle center locations were updated as well (minor shifts).
- **BCO:** All systems are up and running. PoldiRad operational, now with a new generator again. Measurements at Ragged point are all running as well.
- **L'Atalante:** In Guyana waters cruising and collecting ocean-atmosphere information across eddies. We will continue our northwestward course for the next two days.
- **Meteor:** Yesterday: Search for the lost cloud-kite. Return to L2 for an entire day stay, for daily cycle sampling and continued local cloud kite operations overnight. Radiosondes launches at the regular times. 9.20UTC a rain band passed the stationary ship with gusts up the 18m/s. The tethered line of the cloud-kite snapped and the cloud-kite with the attached instruments disappeared. Contact to the kite was quickly lost and it remained unclear if there even was a response to the then initiated balloon self-destruction. With the initial sunrise turned around and moved into the wind-direction searching the entire morning - without success. In the afternoon we returned to the L2 position to restart the day-long sampling period for capturing the daily cycle with regular CTD casts and radiosonde launches. We will slowly move northwards during the next days with day-long stops at the standard CTD sampling locations on the METEOR track. We plan to meet in two days near L1 with the MERIAN to exchange
- **Maria S. Merian:** no update available. In the ship operation box, flying the kite.
- **Ron Brown:** Recovered Wave Glider at 0900 AST. Headed back to "Station Point" (13° 51.0' N / -54° 51.6' W) around 1300 AST to sample aerosol, clouds, BL, ocean properties. Met up with Saildrone yesterday for comparison data set near Station Point. Holding at station throughout this evenings P3 night flight until Monday ~mid-day. Hold at Station Point (13° 51.0' N / -54° 51.6' W) until 9-10 Feb. Recover assets remaining Wave Glider and all drifters between 10-11 Feb. Transit back to Barbados on 12 Feb. In port on 13 Feb.
- **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 next week on Mondays, Tuesdays and Thursdays continue. **Please volunteer !!**

Plans for a hike next Monday between 07:00 and 10:00 LT, contact Sandrine if interested.  
Plans for Cricket match @ Coverley on Monday 15:00 LT. Just show up at the cricket-field there.

Discussion on „good scientific practice“ on Wednesday 10:00 - 11:00 LT at OPS center.

HALO meeting on Wednesday 14:00 LT at OPS center.

### **3. Issues**

no issues

### **4. Flight Alert**

#### **Sunday 09 February 2020**

- coordinated flights of HALO, ATR and TwinOtter, with first take-off at 04:30 LT
- night flight P3, take-off planned for 22:00 LT, 8h flight time
- Planes will be in the Alley between 00:0 and 18:00 LT and after 22:00 LT!
- Contact Point: Jule Radke [jule.radtke@uni-hamburg.de](mailto:jule.radtke@uni-hamburg.de)

#### **Monday 10 February 2020**

- no flights of HALO, ATR
- Twin Otter flight with take-off at 09:00 LT, flight time 3.5h.
- night flight P3, take-off planned for 22:00 LT, 8h flight time
- Planes will be in the Alley **until 07:00 LT from 09:00 - 13:00 LT and after 22:00 LT!**