

OPS-0207 (07 February 2020)

Lutz Hirsch

(compiled 07.02. 15:30 LT)

1. Facility updates

- **Local logistics:** Please, if you drink coffee donate into the large box next to the coffee machine.
- **ATR-42:** Today two coordinated flights with take-offs 07:30 LT and 12:00 LT. No flight tomorrow. Next coordinated flight Sunday with take-off 04:30 LT, followed by a flight with the RSS aircraft planned for 10:00 LT.
- **RAAVEN, BOREAL and Skywalkers:**
- **Boreal:** Wednesday 05 February: take off at 0630LT. A few showers on the road although the PoldiRad images were very helpful. Flight interrupted after the first circle at 400m due to problem with communication and issue with a sensor (due to rain). Takeoff for another flight around 1230LT. Then did two circles at 400m and 50m plus a leg at 1000m through clouds and another leg at 50m before coming back. Total hours of flight= more than 7 hours. Next flight planned for Friday (takeoff 09LT).
- **Skywalker:** Thursday 06 February: 4 missions with one UAV each. Nice sampling of a cloud for the first mission. Less cloudy the afternoon but still catch some clouds on mission 3 and 4
- **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:** Today coordinated flight with take-off 08:00 LT. Initial problems with PLANET-system. Tomorrow ground-day. Next coordinated flight Sunday with take-off at 08:00
- **TwinOtter:** Successful calibration flight yesterday. Coordinated flights today with take-off at 08:05 LT and a second flight later today. No flight on Saturday. Options for Sunday tbd. at tomorrow's flight planning meeting.
- **WP-3D:** No P3 flight today. Night flights (takeoff time 20.00 local) on Saturday, Sunday and Monday.
- **BCO:** All systems are up and running. PoldiRad operational, now with 2nd generator since yesterday afternoon. Measurements at Ragged point are all running as well.
- **L'Atalante:** Decided to sail northwestward instead of southeastward along the continental slope, following the small new spawn ring. Will continue to sail northwestward until reaching the external edge of the newly spawn Ring3 with an intense survey of VMP, CTD and uCTD profiles.
- **S. Merian:** Yesterday's plan was to launch the cloud kite again but then it was decided to postpone a launch to today. Steamed southeast and northward towards the Halo track / Meteor race track region. Tomorrow morning, we will meet with the Meteor and acquire calibration data..
- **Meteor:** Daily cycle sampling near L1, with CTD casts every 2 hours and launch radiosondes at the regular times. Extended air-time for the cloud-kite instruments. Stayed on the METEOR track just south of L1 for almost 24 hours, for investigations of the daily cycle – today at rather breezy 10m/s. Relatively strong wind provided sufficient lift for the cloud-kite and its instruments and kite data for ca 20 hours (15 +5) were collected. Started to move southward on the track (with regular CTD every 3 hours) to meet the MERIAN near L2 the next morning at ca 8am – at least for a common deep CTD. After the common CTD with the MERIAN plan to stay on the Meteor track heading northward – possibly even with the cloud-kite up, as wind-speeds are expected to remain high.
- **Ron Brown:** The Ron Brown was in Barbados port at from 1500 AST, Tuesday, 4 Feb through 1100 AST, Thursday, 6 Feb. We are transited today to 13° 51.0' N / -55° 12.00' W. Outlook: Recover Wave Glider 245 tomorrow later afternoon. Transit to new station point (tentatively: 13° 51.0' N / -54° 54.0' W) Stay at new station point until 10 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.

Today seminar @ CIMH at 15:00 LT with 5 speakers, followed by dinner at Oistins or similar.

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.

Short OPS meeting on Saturday 09:00 - 09:30 LT with only forecast and weather bulletin,
followed by Quicklook discussion 09:30 - 10:30 LT.

Micro-physics and Radar scientific discussion planned for Saturday 14:00 - 17:00 LT at OPS center.

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

3. Issues

no issues

4. Flight Alert

Friday 07 February 2020

- coordinated flights of HALO, ATR and TwinOtter, with take-off around 08:00 LT
- no flight P3
- Planes will be in the Alley between 07:30 and 18:00 LT!
- Contact Point: Veronika Pörtge <veronika.poertge@physik.uni-muenchen.de>

Saturday 08 February 2020

- no flights of HALO, ATR and TwinOtter
- night flight P3, take-off planned for 22:00 LT, 8h flight time
- Planes will be in the Alley not before 22:00 LT!
- Contact Point: tbd.

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 04:30 and 18:00 LT and after 22:00 LT!
- Contact Point: tbd.