

Maria S. Merian

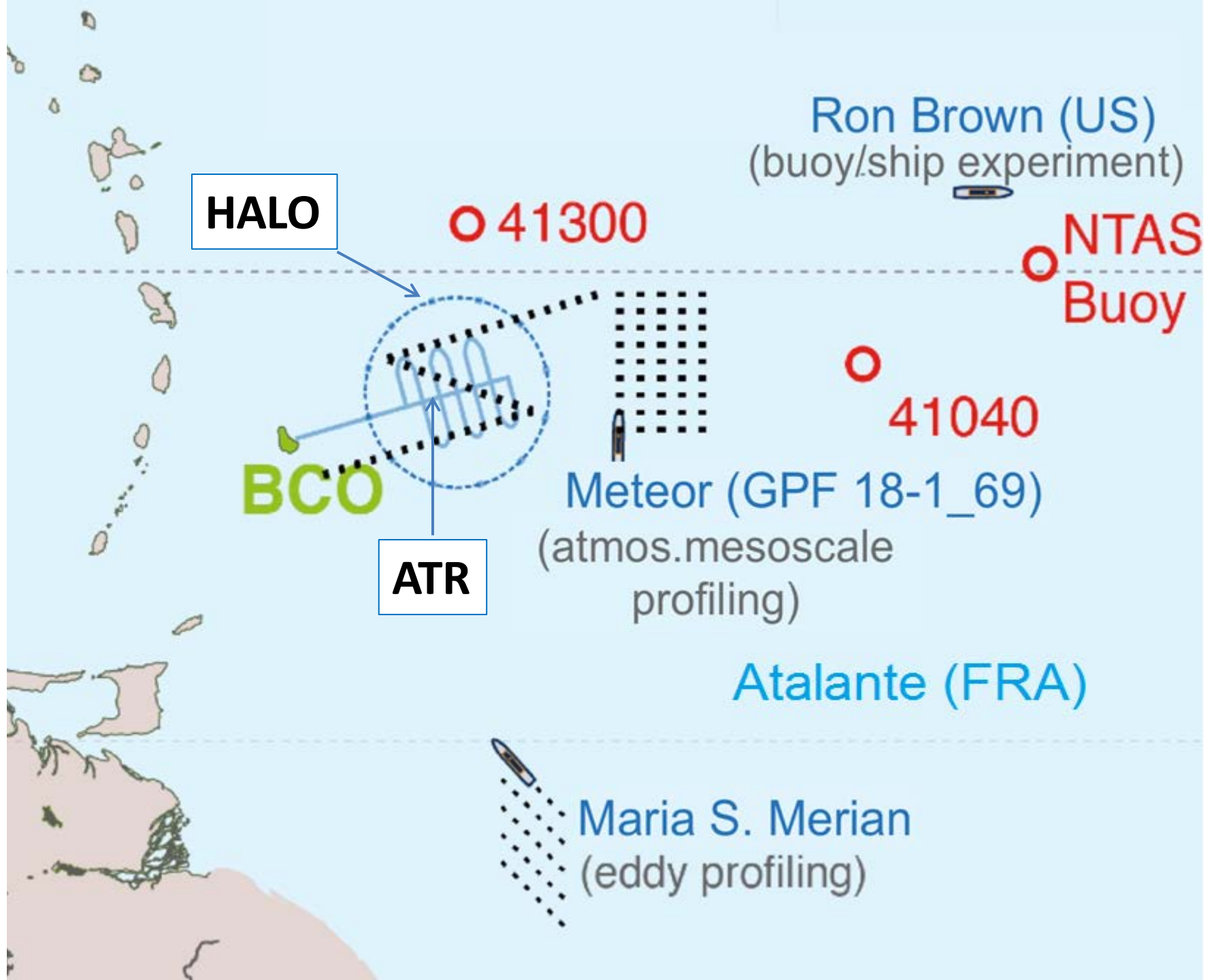
ship 2: ocean focus

EUREC⁴A⁺⁺

22 science slots



Jan, 18 Bridgetown – Feb 20, Bridgetown



Ron Brown (US)
(buoy/ship experiment)

HALO

41300

NTAS
Buoy

41040

Meteor (GPF 18-1_69)
(atmos. mesoscale
profiling)

Atalante (FRA)

Maria S. Merian
(eddy profiling)

BCO

ATR

overall coordination

- GEOMAR
(and MPI-M)
- science lead (ocean focus)
 - Johannes Karstensen jkarstensen@geomar.de
(Marcus Dengler mdengler@geomar.de)
- 1 slot (johannes)

Niels Bohr Inst., Copenhagen, DK

- modeling
 - test hypothesis that **vertical mixing** in tropical mixed layer **has a Gaussian distribution** and **can be parameterized as a function of the local vertical shear** of the gridcell average velocity.
 - Markus Jochum mjochum@nbi.ku.dk
- 1 slot (tbd?)

GEOMAR, DE

- oceans profiling (**CTD** / floats)
- **gliders?**
 - Johannes Karstensen jkarstensen@geomar.de
- 6 slots (tbd, tbd, tbd, tbd, tbd, tbd)

MPI-MicroBiology, DE

- **Primary production** (using stable isotopes)
- **Export production** (via O₂/Ar ratios:using membrane inlet mass spectrometry)
- **High resolution nutrient profiles** (pumpCTD)
- **N₂ fixation** (using stable isotopes)
 - Wiebke Mohr wmohr@mpi-bremen.de
 - Gaute Larvik
- 4 slots (gaute, postdoc, techn, student)

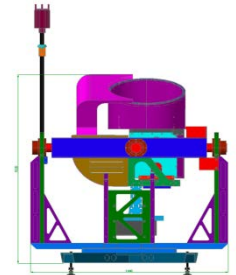


LMD, FR

- **isotopic** composition
 - water isotopes in water vapor
 - speich@lmd.ens.fr
 - gilles.reverdin@locean-ipsl.upmc.fr
 - hugo.bellenger@lmd.jussieu.fr
- 1 slot ? (tbd)

Uni Cologne DE / Brookhaven US

- 94Ghz (W) cloud radar (RPG)
- **microwave radiometer**
- **disdrometer**



Kardanian
mount

- Claudia. A. cacquist@meteo.uni-koeln.de
- Susanne C. crewell@meteo.uni-koeln.de
- Pavlos K. pavlos.kollias@stonybrook.edu

- 1 slot: Claudia Acquistapace
- - (Rainer H.-L. to install/pack)



UNI Hamburg, DE

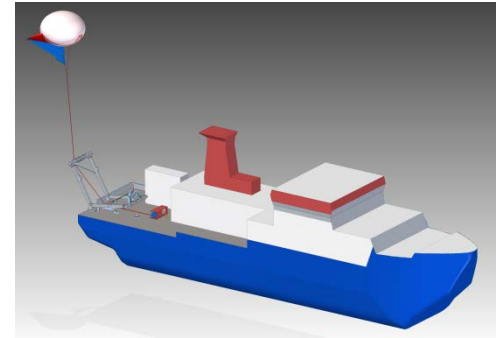
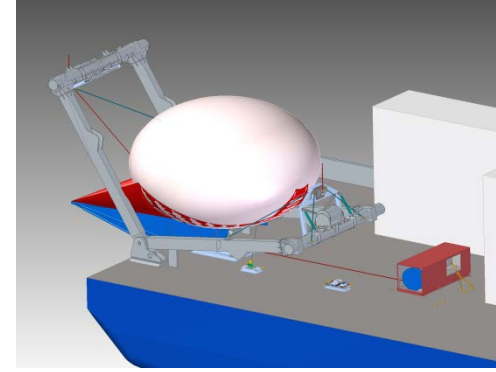
- **radiosondes** with high 6 (max 3) hr launching
- **precipitation radar**
- eddy covariance measurements
- disdrometer
 - Felix A. felix.ament@uni-hamburg.de
 - (Christian K. christian.klepp@uni-hamburg.de)
- 2 slots (tbd, tbd) [1 slot for radiosonde launches]

MPI- Meteorology, DE

- ceilometer
- sunphotometer
- cloud-cameras
- CO2 sensors
 - Friedhelm J. Friedhelm.Jansen@mpimet.mpg.de
 - Peter L. peter.landschuetzer@mpimet.mpg.de
 - Stefan K. Stefan.kinne@mpimet.mpg.de
- 1 slot (tbd) [tbd for sun-photometer]

MPI DS, DE

- **Cloud – kite (+winch) ... with**
 - Particle Image/Tracking Velocimetry (PIV/PTV)
 - Holography
 - Fast Cloud Droplet Probe (FCDP)
 - Laser Doppler Velocimetry
 - High res. state and velocity sampling
- **splash 3-Drone**
 - Eberhard B. eberhard.bodenschatz@ds.mpg.de
 - Gholamhossein B. gholamhossein.bagheri@ds.mpg.de
- 4 slots (mohnsen, tbd, tbd, tbd)



Meto France, FR

- **CCN counter**
 - for cloudkite
 - Greg R. roberts.gregc@gmail.com
- 0 slot (person to be trained)