BG Data products
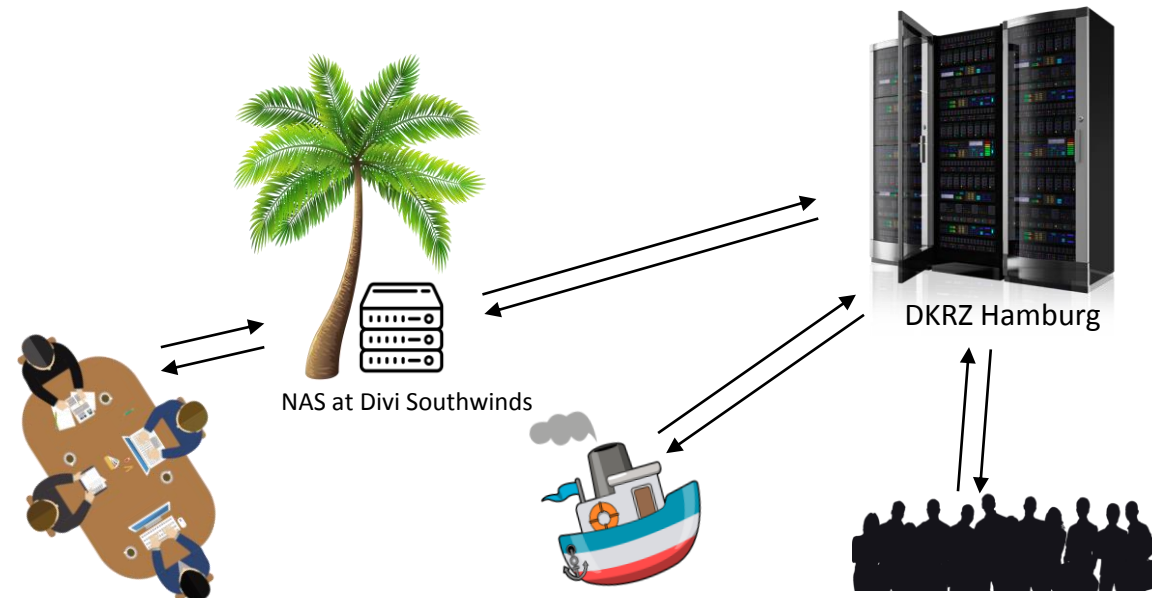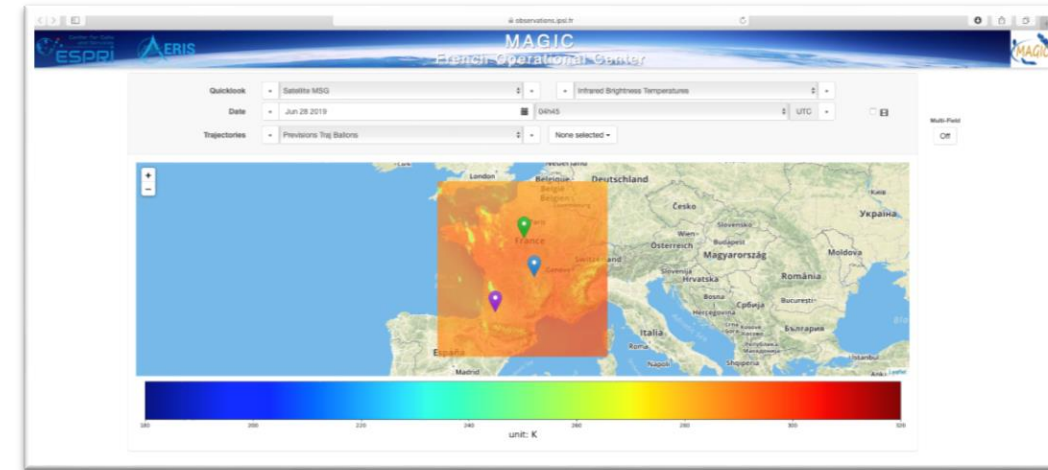# - review of planed infrastructure

Aeris platform by Vincent et al.
- Interactive visualization of model forecasts (ECMWF, …) and satellite products (GOES, MODIS, etc.)
- Browser for static quicklocks (e.g. jpeg images)
- Central entry point
- Repository for post-campaign data sets

Data server system by Marcus, Raphaela and Tobias
- Synchronized data server (Cloud system or FTP servers – to be decided by IT)
- EUREC^{4}A directory tree: Platform ➔ Instrument ➔ time period
- Dedicated to exchange data files – and also documents (manuals, minutes) and scripts
- Free access for reading, one account per instrument for writing

NAS at Divi Southwinds

DKRZ Hamburg

BG Data products
- review of planed infrastructure

All other business is a community effort –
We need our support!

- Willingness to share data
- Happy to see own data used by others
- Give credit to data providers (s. Data Policy)
- Evolutionary process

BG Data products
- during the campaign


Flight and ship (?) planning data (Aeris)

- ECMWF forecast data and satellite observations are sufficient – at least for flight planning
- Aeris will be the central platform

Exchange of Quicklooks (Aeris)

- Every data provider decides how to visualize the own data best
- Following some convection by Aeris, all quicklooks can be uploaded to Aeris ftp-Server and will be available by the website
- Sharing of quicklook scripts, if possible

Exchange of Data (Data server structure)

- Every data provider decides on hierarchy of products, versioning, etc.
- All data on the server will be „Preliminary" on a best effort basis! (not suitable for publications)
- Recommendations for data formats
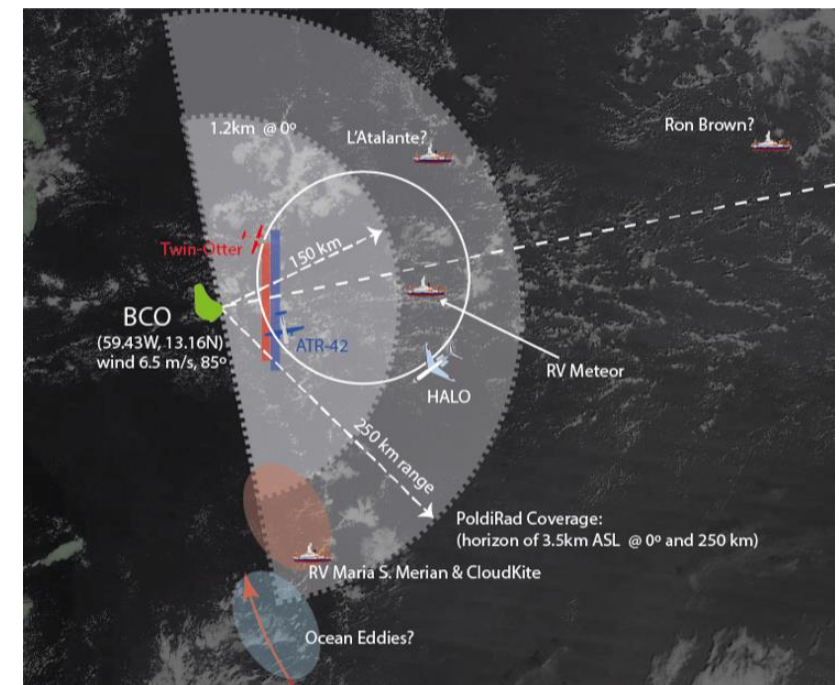
Recommendations

- Self descriptive , preferably netCDF
- UTC
- CF convention
- Useable file size
- …

BG Data products
- before and after the campaign

Pre-campaign phase
- Aeris: Quicklook providers (as well as model and satellite data providers) will get upload guidelines soon
- Data server: EUREC^{4}A directory tree will be set up soon. Then, every data provider get access
- Vision: Both system can be filled with test data until December 2019

Post-campaign phase
- Aim at an ESSD special issue
- Defining the list of expected contributions during EUREC^{4}A based on the EUREC^{4}A data server
- Use the deadline of the special issue to forster the exchange of quality controlled data sets

Wishes and ideas
- Model products tailored for near-realtime evaluation
- Contact to windy.com and use their API to get local output (meteograms etc.) of more operational forecasting systems.

The don'ts
- Storage and exchange of raw data
- Catalogue of expected data products and quicklooks
- Strict data format guidelines
- Central quality control