

Report Working Group Discussions Supersites

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Open Questions / Demands:

- **Instruments:** What is the minimum instrumentation needed for a Supersite?
- **Time stamps:** What time stamp has to be used when averaging data? Global decision for all COPS instruments needed!
- **Height:** What height should be used? Above sea level.
- **Scan strategy:** To choose adapted scan strategy qualified information from the operation centre is needed!

Agreements for all Supersites:

- **Time Base:** All Instruments have to use UTC as time base. Clocks can be synchronized using NTP with the server of the Physikalisch Technische Bundesanstalt ([ptbtime1.ptb.de / 192.53.103.108](http://ptbtime1.ptb.de/)), using radio controlled clocks or the GPS time signal. At the Hornisgrinde Supersite a local NTP server will be installed.
- **Time resolution:** Data have to be stored with the highest reasonable time resolution. In case of averaging parts of multiples of 15 minutes should be preferred to synchronize with weather service and satellite products.
- **Communications:** A common email address for communication between people working at Supersites is available now: cops.supersites@googlemail.com
A list of contact phone numbers will be made available when building up the supersites.
- **Internet:** When ordering internet connections for the Supersites keep in mind that (A)DSL has lower upload speed than the advertised maximum speed by the providers (which is generally the download speed)! Choose your connection according the upload speed needed to get all the information transferred from your instrument to the internet and keep in mind that you normally need a telephone line to get DSL!
- **Data:** Problems with the data format have to be solved in cooperation with the assimilation group and the people from the data management.

Informations and Questions concerning the individual Supersites:

V (Vosges)

- Lidar: Are there limitations for the lidar measurements (daytime/night-time/military ...)?
- Scan strategy: Should a coordinated scan strategy with POLDIRAD and Supersites R and H be established?

R (Rhine)

- Station will be manned starting May 20th
- Internet connection has to be ordered (Deutsche Telekom / Arcor / Alice ...)

- Scan strategy: Should a coordinated scan strategy with POLDIRAD and Supersites V and H be established?

H (Hornisgrinde)

- All Instruments have to be installed on the helipad which is 8 m below the Hornisgrinde peak with open view to the Rhine Valley.
- Minimum possible elevation for full 360 degree PPI scan is approx. 4-5 degrees.
- Space on the helipad is very limited (27x25 m) – locations of the instruments have to be well coordinated. Every PI should send as soon as possible an email with dimensions, power requirements and other restrictions/requirements to the site responsables (Andreas Wieser and Ulrich Corsmeier).
- Please contact site responsables before deploying instruments!
- Road connecting B500 (Mummelsee) with the Hornisgrinde Supersite is closed with a barrier
- There will be no fence around the Instruments, but site is closed for motor vehicle traffic which gives some kind of protection against vandalism.
- Site is accessible for standard sized lorries.
- Office Container already installed at the site.
- Electrical power will be available starting April 11th
- Internet connection 2 MBit SDSL will be installed 1st week of May by Deutsche Telekom.
- Local WLAN will be established during May. Cabled LAN is possible but lightning and over voltage protection has to be supplied by the Instrument Operator – WLAN is largely recommended!
- At least on fix IP Address for the site is available. Instruments can be contacted from outside by port forwarding. Ports will be assigned in a first come first serve order by the Supersite responsables.
- VoIP phone will be installed in the office container.
- There is a large risk of lightning strokes at this very exposed site! Make sure to have individual grounding and lightning / over voltage protection for each instrument is needed. Site responsables will try to install a field-meter with siren for early warning
- Coordinated scan strategy will be developed by Jan Handwerker and PIs of scanning instruments. Scan strategy should be coordinated with flight plan and instruments at other Supersites as well.

M (Murgtal/AMF)

no site representative present; operation of AMF starts on April 2

R (Stuttgart)

- MW Radiometer (Potenza) likes to move to Supersite H. Are there still enough instruments at Supersite S to keep the Supersite status? Can this Supersite be declared as boundary layer optimized site? What data are needed by the assimilation group?

Poldirad

- Scan strategy: Should a coordinated scan strategy with Supersites V, R, H be established?