Campaigns – conclusion and recommendations

Highlights:

- We have many well characterized airborne (remote sensing and in-situ) and ground-based (incl. mobile) platforms with well established QA/QC procedures → capability for EC cal/val (diff. aspects) has been proofed in pre-launch campaigns / strategies have been developed
- Already quite a few campaigns have been identified (2 integrated campaigns with airborne/ground-based; additional activities with balloons, UVAs, ground-stations)

Recommendations:

- Multiple aircraft with remote sensing and in-situ measurements
  - → complementary wavelengths
  - → synchronise ground-based and airborne measurements (campaign and network/permanent sites) – intercomparisons / representativeness
  - → Combining remote sensing and in-situ measurements very powerful; in-situ alone is 'missing' the context
- Use mobile facilities to close the gap (some of them are available on demand)
- Not forget the shipborne cal/val to close gaps over the ocean (there are a few RV which can board remote sensing)
- Bringing together L2 algorithms/teams and real measurements
- Team up with ATMOS

Remaining main issues and further needs:

- How to put everything together? → communication between PIs → combining the efforts / defining best measurement locations
- How do we deal with the funding issue? → some campaign activities still open depending on funding
- Regarding schedule, is there a gap at the beginning of the mission? → if yes, how can that be closed?