

## Notes of the COCCON EM27/SUN telephone conference at November 4<sup>th</sup> 2021

Here are some notes of the discussions and ideas of the telecon.

Please note that these minutes are not a complete record. Rather it tries to sum up the most important points of the discussion. Furthermore no liability is taken in case of any misunderstandings.

However, if you think an important point is missing please email to [benedikt.herkommer@kit.edu](mailto:benedikt.herkommer@kit.edu).

### List of participants:

Andre Butz (IUP Heidelberg), Ralph Kleinscheck (IUP Heidelberg), Greg Osterman (JPL), Matthaeus Kiel (JPL), Rigel Kivi (FMI), Jonathan Franklin (University of Harvard), Neil Humpage (University of Leicester), Bianca Baier (NOAA), Aaron Meyer (LANL), Hayoung Park (National University, Seoul, Korea), Wolfgang Stremme (UNAM), Thomas Blumenstock (KIT), Frank Hase (KIT), Benedikt Herkommer (KIT)

### Organizational things:

- In case you missed a telecon, the slides and minutes can be found here: <https://www.imk-asf.kit.edu/english/3934.php>
- Next telecon will be in mid of January.
  - Lena Feld and Benedikt Herkommer (both KIT) will present a python wrapper for Proffast (PrfPylot).
  - In case you have any question regarding Proffast this is good opportunity to ask. It would be great if you could let us know beforehand: [benedikt.herkommer@kit.edu](mailto:benedikt.herkommer@kit.edu)

### Notes of Discussion

- Presentation of Andre Butz on “mobile deployments on ships and vans“ by André Butz. The slides are uploaded here as well. Thanks a lot again to André for the interesting talk.
- Question: How is the problem solved with the cables wrapping around the tracker?
  - There is a feature in the software which prevents a cable cut off → In case of more than 360 degree turn, the tracker direction is reversed.
- Question: Have the results of the instantaneous emission estimates been compared to a calculation with model data only?
  - This has not been done explicitly
  - It is expected that the result gets worse
- Question: Are there plans for further shipborne campaigns?
  - Yes, currently the device is on a Japanese vessel.
  - It is planned to establish a permanent cooperation with the Japanese people.
- Question of André to the audience: Are there groups interested in the tracker technique of IUP Heidelberg? The would provide help and the program code for other groups:
  - Hayoung Park would be interested if the tracker works for low solar zenith angles
    - According to André the tracker should work then as well.
    - Side Note: It is important to know that low solar zenith angles bring a bias (airmass depended bias). However, in principal this bias can be corrected. But it is important to keep this in mind.
  - Bianca Baier would be interested for quick deployment (no alignment) to record e.g. wildfires.

- Jonathan Franklin thinks that it would be good for satellite validation as well as for a transfer standard to do mobile side by side measurements.