Notes of the COCCON EM27/SUN telephone conference at January25th 2022

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

Please note that these notes 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.

List of participants:

Greg Osterman (JPL), Dave Pollard (NIWA), Katharina Heimerl (Vrije University Amsterdam), Sander Houwelling (Vrije University Amsterdam), Benedikt Hermmer (IUP Heidelberg), Moritz Makowski (TUM), Jonathan Franklin (University of Harvard), Yao Te(Sorbonne University), Pascal jeseck (Sorbonne University), Mahesh Kumar Sha (Bira), Neil umpage (University of Leicester),), Hayoung Park (National University, Seoul), Wolfgang Stremme (UNAM), Tomi Karppinen (FMI), Rigel Kivi (FMI), Nikki Jacobs (University of Fairbanks), Bianca Baier (NOAA), Robbie Ramsay (University of Edinburgh), David Noone (University of Auckland), Bruno Grouiez (GSMA-Reims), Marios Mermigkas (University of Thessaloniki), Pablo Schmid (KIT), Carlos Alberti (KIT), Lena Feld (KIT), Frank Hase (KIT), Benedikt Herkommer (KIT)

Presentation of Sander Houweling about their Campaign in Rotterdam

- They are planning a campaign in September 2022
- For this campaign they are looking for supporters who can help with EM27/SUNs
- If you are interested contact Sander Houweling: s.houweling@vu.nl

Presentation about PROFFAST v. 2.0 and PROFFASTpylot

- Presentation of Frank Hase to PROFFAST v. 2.0 and by Lena Feld and Benedikt Herkommer
    - Beta version can be downloaded
    - For details see slides
- **Question:** At which version the Bug in PROFFAST 1 has to be considered?
    - For all versions with distributed executable generated on 10-08-2020 or later, the correction factor have to taken into account. (See https://www.imk-asf.kit.edu/downloads/Coccon/Technical%20note%20on%20XCO2%20bias%20in%20current%20P.pdf)
    - For earlier Version XCO2 is consistent
- **Question:** What is the reason for the great improvements in PROFFAST 2.0?
    - This mostly due to the new linelists.
    - The changes in the code itself are negligible.
- **Question**: Does the PROFFASTpylot support HDF5Geoms support?
    - Not yet, however it is planned.
    - If anyone wants to help on this, he or her is welcome!