

COCCON/EM27 Telecon

4th of Mai 2021



Outline

- Idea of these telecons
- Introductory round
- Short presentation of (F. Hase): Recent progress in LINEFIT
- Announcement from TCCON: Invitation to their annual meeting
- Discussion round / time for questions
- Outlook: Next teleco

Motivation

- First: Special thanks to Niki Jacobs (UoA Fairbanks) for pushing these meetings ahead and to Greg Osterman and Matthaeus Kiel (JPL) for their technical support.
- Regular telecons: Discussing EM27/SUN related issues:
 - instrumental problems, good practice
 - campaign activities
 - innovations (e.g. shelters, software update e.g. LINEFIT)

Introduce ourselves

The Collaborative Carbon Column Network (COCCON) has been created by a sequenz of ESA projekt. Several key persons are:

- Matthias Frey (former KIT, now NIES) and Carlos Alberti (KIT):
 - A lot of work with Instruments: QC/QA, calibration of new spectrometer
- Darko Dubravica (KIT):
 - Built the central data processing facility
 - Supports many users in direct contact

Introduce ourselves

- Qiansi Tu (KIT):
 - Campaigns to demonstrate the feasibility EM27/SUN COCCON data processing scheme
- Mahesh Kumar Sha (BIRA):
 - Coordinates the validation activities of COCCON
- Benedikt Herkommer (KIT):
 - Realize COCCON travel standard: Improving COCCON calibration to TCCON reference, improving consistency of TCCON stations
- Frank Hase (KIT):
 - Supervises KIT PhDs, Author of e.g. LINEFIT, PROFFAST

Introduce ourselves

Further acknowledges COCCON further acknowledges

- the continued support by ESA (Angelika Dehn, Paolo Castracane)
- the commitment of Gregor Surawicz and Roland Harig (Bruker)
- and the assistance kindly provided by NILU (Ann Mari Fjaeraa, Richard Olav Rud)

Further contributing colleagues from KIT and BIRA are: Thomas Blumenstock, Lena Feld, Bavo Langerock.

Introduce ourselves

PIs / operators of EM27/SUN spectrometers who share their results finally are the core component of COCCON – so perhaps you would like to introduce yourself?

- What is your affiliation?
- What is your professional background (FTIR/ remote sensing experience)?
- What are you working on, using the EM27/SUN
- What would you expect from COCCON telecons?
- What kind of support seems desirable in general (via telecons, webpage, ...) ?

Presentation LINEFIT

Recent progress in LINEFIT for ILS characterization of low-res NIR spectrometers (F. Hase, KIT)

Invitation to TCCON-Meeting

- TCCON invites all COCCON people to join in their annual meeting at the week of 8th of June.
- Furthermore they would be happy if you would contribute a poster.
- This will be presented in an interactive session using gather.town .
- Please submit your poster presentation title using this form:
<https://forms.gle/N7WjNygzvXhLxtbz5>
- Submissions will be accepted until May 21, 2021

Discussions and Questions

- Points of discussion will be collected here and included in final minutes of this teleconference.

Next telecon

- Planning telecons every second month
- 6th or 22nd of July, will let you know soon via mail
- Looking forward to see you there!