Summary PACE AC telecon January 8, 2015

In attendance:

Lorraine

Odele

Hal

Bo-Cai

Emmanuel

Robert

Kirk

Heidi

Bryan

Jacek

Zia

Ali

The telecon primarily addressed some specific topics concerning next week’s meeting.

1. The meeting venue and logistics. A separate email had been sent earlier to all registered participants.
2. RSVPs for the Wednesday evening dinner at Franklin’s
3. Meeting agenda

Meeting 1st day.

All PIs are expected to give a 10 minute presentation on the first day. Emmanuel says no more than 5 slides. Tell us a) what you proposed to do and b) how you connect to the larger group.

The PIs will present in groups of 4, as a panel, with all 4 in the group remaining in front of the room for general discussion after all 4 presentations have been delivered.

Robert Frouin will not be at the meeting. He will send his slides to Lorraine who will either identify somebody to present them, or present them herself.

Meeting 2nd day

Bryan Franz will give a one hour talk setting the stage for where Atmospheric Correction is today and where it might be 2.5 years from now. This is a key talk and we should be prepared to digest his analysis and identify issues that he may have omitted. The talk will be followed by discussion, but really we will be discussing his talk for the remainder of the meeting, and remainder of the year.

Jeremy will do the same for IOP.

In the afternoon we will convene break-out sessions. First, AC and IOP will meet separately. During this time I would like to put into writing a plan to accomplish achieving an AC algorithm for PACE. As suggested, there should be a baseline algorithm, and then there are ideas on how to make this algorithm “better”. As part of this plan we need to quantify “better”. We should also list issues that we see on the horizon, and “gaps”. Gaps are things that need doing, but nobody currently on the science team is planning to do those things.

After the AC/IOP discipline break-outs, there will be time for the individual sub-groups to hold break-out sessions. These will be cross-discipline meetings combining AC and IOP people.

There will be time to discuss each break out session in plenary.

Meeting 3rd day

Applications will have 1 hour to encourage us to work towards better utility of our science.

There will be a 30 minute discussion on polarimetry in PACE. Jacek, Kirk and Olga will combine to present an introduction and overview of how polarimetry has been used in other studies for both AC and IOP, and what data sets are out there that combine polarimetry with ocean measurements. There is some urgency here. Decisions will be made in the next 6 months concerning the instruments to fly in PACE. We all need to come up to speed as quickly as possible in order to understand the science opportunities that may exist with a polarimeter. Is it essential or not?

There will be another chance for sub-groups to present their plans for the year ahead, a listing and discussion of identified gaps and a chart of the year ahead.

1. Meeting Handouts

We will hand out the agenda, the objectives decided upon for IOP and AC, a synopsis of the subgroups and some subset of Bryan and Jeremy’s slides.

1. subgroup and IOP report

Jacek and Bryan had little to report. Bryan had sent a summary of the data subgroup’s results before he went on vacation. Unfortunately nobody looked at it. We do want to identify data sets that had a polarimeter taking data in conjunction with ocean measurements. The RSP flew several missions with ocean targets in mind. Both RSP and AirMSPI flew a few missions over the SeaPRISM site off the coast of southern California. These data sets should be identified in Bryan’s accumulating list.

Emmanuel gave a synopsis of the IOP activity. Most of what he discussed will be in the handouts and presented at the meeting.

1. Othertopics

At the end Heidi initiated a discussion concerning the need to increase current ocean retrievals by going back to special cases such as sun glint, adjacency, ice, white caps and thin clouds. These she categorized as bright issues.

The point is that historically ocean retrievals were meant to be climate data record quality, which keeps only the best over long time scales, but is not satisfactory on even a weekly time scale. We should keep this in mind as we define “better”. There is the possibility of increasing coverage at a degraded accuracy. There is a possibility that a polarimeter may help deal with the bright issues, but it depends on the characteristics of the particular polarimeter. The Dutch are designing a spectropolarimeter and Otto Hasekamp will be at the meeting next week, so we could ask him.