

Feedback from Science Leads

CCI Colocation Meeting 2019

1. Golden year

- Still 2008 is a reference given the work done on this in the initial CCI
- What are we going to do with this data ?:
 - Consistency check ?
 - Interrogate the CMIP5 models ?
 - Make available for a user to get some visibility of a single period across ECVs
- Which period ?:
 - Focus a period that picks up on different events that covers all the domains ?
 - Post-2016 to capture Sentinel data
 - Two years: 2017 (excludes fire?) and 2018 (excludes of water vapour)

2. GCOS Joint Panel Meeting



- Joint meeting of 3 GCOS panels (AOPC, OOPC and TOPC) last week (in addition to WGClimate and WDAC)
- Discussions focussed on cross-panel working groups on the energy, water and carbon cycles
- Discussion on extremes:
 - Direction towards building requirements that also consider extremes (heatwaves, drought, ...)
 - Do we double up all requirement numbers or adapt existing ones ?
 - The concept of breakthrough requirements is still there but agreement these are not well defined
 - Concern about the changes in nomenclature: “objective”, “threshold”



2. GCOS Joint Panel Meeting



- Next Status Report will be compiled in 2020
- Next Implementation Plan to be compiled in 2021 for 2022 release (ready for Global Stocktake)
- Expected changes to requirements for Implementation Plan:
 - More emphasis on justification of the numbers
 - Adaptation and mitigation:
 - Indicators for adaptation using selected ECVs to look at this
 - Timeliness



3. ESA Response to GCOS



- Following the Science Leaders Meeting at CMUG 2018 decision was made to update the ESA Response to GCOS document:
 - Around one third of CCI projects have already provided input
- Key points raised:
 - Should be reporting on the Actions in the IP rather than just the updates to the requirements
 - Reporting should be on the 2016 IP rather than the numbers in 2006
 - Should the response wait until any new user requirements have been completed by the CCI projects ?
 - Should highlight the success stories from CCI
 - Action: To check what the timelines are and to remind everyone



4. CCI paper on consistency

- Thomas/Rainer/Michaela leading a paper on consistency across ECVs
- The status of the paper was presented:
 - Aim to submit within ~3 months
 - Not full budget closure studies
 - Having the cycles fully described is not the focus
 - Definition on consistency (technical, retrieval, and scientific levels)
 - Define types of inconsistencies

4. CCI paper on consistency



- Discussion on the key tables:
 - Input from everyone on the CDRs produced (to be produced)
 - Input from everyone on where the overlaps are (scientific and retrieval)
 - Co-authorship agreed where examples have been provided and not just for filling in the crosses in the tables
- We should emphasize in the paper that consistency across ECVs is a strength of CCI, whereas other programmes may look at the ECVs individually



5. CMUG "EO for Climate" foresight report



- Aim: to start thinking about the follow-on activities beyond CCI+
 - Look at what is needed by the Climate Modelling community in terms of gaps
 - How would this feed into international considerations:
 - CMIP ...
 - Adaptation / mitigation
 - Global Stocktake
- Would this we new ECVs or new science using existing ECVs ?:
 - New ECVs mentioned: florescence, evapotranspiration, rivers, submerged vegetation, irrigation water, ocean heat, burnt biomass



5. CMUG "EO for Climate" foresight report



- Key points:
 - We should be doing more to emphasize the working across ECVs
 - How can this be done with respect to the Global Stocktake (indicators ?)
 - Working towards thinking about such indicators now
 - Shift towards thinking about cycles and budgets
 - Is this a CCI remit of C3S ?:
 - We have to do the research to prove value for the GS on a pre-operational level
 - Working across ECVs rather than necessarily adding new ECVs:
 - Cross ECV activities could be proposed which feed into this
 - Encourage everyone to respond to Simon's email
 - Valuable scientific input by new ECVs in the IPCC review process

