

climate change initiative



Splinter Session
Climate Science and Other User Perspectives

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Overarching Questions Posed by ESA

How operational are the CCI ECVs?

- Define the key criteria for being operational
- Assess the current status with respect to these criteria
- Define the main steps necessary to become operational and the time scale

Specific Questions - Climate Science Applications

- How many users have downloaded your data?
- Which areas are they from?
- What feedback have you received from your users?
- How do you assess impact on your user communities so far?
- How to best measure the user impact?
- How dependent are users on your data?
- What user base constitutes an operational service?
- Do you foresee different users when you become operational?
- Do you track access to your data?
- Do you require password control and user registration?
- Do you track publications of other groups using your data?
- How relevant is your data to the IPCC, CMIP and other climate assessment processes?
- Do you consider your current data access adequate? What else is needed?
- Link to Data group – how are you providing data access? What downloads are you expecting?
- How important is it for your ECV record to include the most up to date information (e.g. last month)? (Also important for non-climate users).
- Uptake by climate modellers: how well adapted are your data – how well linked to Obs4MIPS are you?
- Interaction between ECVs – is the CCI Community making the most of the programme? What do users want in terms of consistency (once consistency has been defined :)
- What specific requirement (if any) do climate services impose on ECV Data products? Is there a specific need to modify or update existing ECV products?

Specific Questions - Non-climate Science Applications

- Are your data currently used in different domain than Climate Research
- How important are the non-climate science users within the different projects?
- Do these users have different requirements?
- Are there presently any commercial uses? E.g. insurance companies, oil/gas sector?
- Are there any presently non-research public entities users?
- How can this data be best used for educational purpose (school, universities, public)?
- What do we need to do to the ECVs to make them more easily useable for these groups? E.g. provide tools, more explanations, more real-time data, better promotion within these communities, different data formats, etc.?

Discussion Points

- What does Operations Mean?
 - Meeting Service Level Agreements
 - Complying with the URD
 - Meeting accuracy goals
 - Different for every ECV
- Key Criteria
- Can we deliver tomorrow?
 - Tomorrow = after CCI Phase 2)
- Unique Selling Positions
 - Are there free and open data sets from other organisations (NASA, ...)

Yes!

Key Criteria

- Potential Impact/added-value of variable
- Well defined data sets and procedures for quality control, delivery, reviewing and updating
 - Bates Maturity Matrix
- Ease of access
- Sustainability
 - Strong science
 - Stable and supportive international cooperation network
 - Storing data in repositories
- Automatic processing lines
- ~~Data set has a DOI~~
- ~~Number of users~~
- ~~Outreach in media~~
- ~~Strong team behind the production~~

Unique Selling Positions

- Aerosols: 17 years, quality
- Cloud: optimised retrieval and consistency
- Fire: small fire detection, validation
- GHG: unique data sets, documentation
- Glaciers: Global team, standardisation
- Ice Sheets: European satellites, national funding
- Land Cover: consistency accross epochs
- Ocean Colour: novel methods, better coverage
- Ozone: high precision, unique altitude coverage
- Sea Ice: quality control, errors
- Sea Level: uncertainty, global team
- SST: timeliness and consistency over long time
- Soil Moisture: unique multi-satellite data, established cooperation team