



CCI project integration meeting

ECMWF, Shinfield Park, Reading, RG2 9AX, UK, 14 to 16 March 2011

Aims and Programme

This meeting is to facilitate CCI project integration so as to achieve consistency and quality of output across the CCI. The CMUG will facilitate the discussions.

A. Aims of the meeting are to:

1. check ECV project URDs are consistent with the needs of Climate Research Groups (CRG) in the context of CMUG needs and GCOS requirements, including source tracability
 2. First look at ECV product specifications (and check that the proposed products will be of use to CRGs in their applications) if available
 3. allow ECV teams to explain how their projects address the integrated perspective for consistency between the ECVs to avoid gaps
 4. discuss how to deal with uncertainties in products (how to capture and describe them for product users)
 5. develop / finalise the ECV projects data needs for ECMWF reanalysis data
 6. start a discussion on ECV data set validation
 7. maintain oversight of the position within the international framework in which CMUG/CCI is operating
- Success in fulfilling these aims will be evidenced by the subsequent direction of the CCI projects.*

B. Inputs of the meeting are:

1. CMUG Deliverables to date [D1.1, 1.2, 4.1 available at www.cci-cmug.org and D2.1]
2. Official URDs from ECV projects [available from ESA]
3. Official DARDs from ECV projects [available from ESA]
4. Draft PSDs from ECV projects if available [available from ESA]
5. ESA CCI Project Guidelines [output from colocation meeting, ref. EOP-DTEX-EOPS-SW-10-0002]
6. GCOS requirements [see: <http://www.wmo.int/pages/prog/gcos/Publications/gcos-107.pdf>]

C. Outputs of the meeting will be (see page 4 for meeting outlines):

1. **Meeting report of actions agreed by ECV projects** [including updates to URDs and Product Spec. docs]
2. **Meeting report describing strategic position of the CMUG, within CCI, in the international arena**
3. Material to inform revision of CMUG D1.2, D2.1 and D2.2
4. Input to CMUG D3.1
5. Clarity on requests for ECMWF reanalysis data
6. Clarity on early demonstration of products (if feasible) to modellers.

D. Programme

Each ECV project is asked to give a 20 minute presentation demonstrating how it will address the following questions:

1. **Is your URD consistent with the needs of Climate Research Groups (CRG) in the context of CMUG needs and GCOS requirements, including source tracability?**
2. **How are your product specifications developing to meet the needs of your individual Climate Research Group (will the CRG use the proposed products in their applications)?**
3. **How will you address the integrated perspective for consistency between the ECVs, including identification of gaps?**
4. **How will you deal with uncertainties in products?**
5. **What are your data needs for ECMWF reanalysis data?**

(Each presentation will be followed by 10 minutes plenary Q+A.)

Presentations to be ready by Tues 8 March and circulated around ECVs, ESA and CMUG

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| Monday p.m. | |
| 12:00-13:00 | Registration and lunch |
| 13:00-13:15 | 1. Welcome and outline the of the meeting [<i>Presentation: ECMWF, Mark Doherty ESA</i>] |
| 13:15-13:45 | 2. Agree the aims of the meeting, with plenary discussion [<i>Roger Saunders, Met Office</i>] |
| | SESSION 1: Climate Modelling perspectives |
| 13:45-14:15 | 3. Climate modelling perspectives [<i>Marco Giorgetta, MPI</i>] |
| 14:15-14:45 | 4. Metrics and data in global model evaluations [<i>Veronika Eyring, DLR</i>] |
| 14:45-15:15 | 5. Reanalysis: when observations meet models [<i>David Tan, ECMWF</i>] |
| 15:15-15:30 | Tea / coffee |
| | SESSION 2: URDs and products specifications and validation [20 minute presentation by each CCI leader to address the questions in the blue box, and 10 minute discussion] |
| 15:30-16:00 | 6. Sea level |
| 16:00-16:30 | 7. SST |
| 16:30-17:00 | 8. Ocean colour |
| 17:00-17:30 | 9. Discussion session on common issues for marine ECVs [<i>MétéoFrance to lead</i>] |
| 17:30-18:00 | 10. GHG |
| Monday evening “an Integrating Reception” drinks and nibbles courtesy of ECMWF | |
| Tuesday a.m. | |
| 09:00-09:30 | 11. Cloud |
| 09:30-10:00 | 12. Ozone |
| 10:00-10:30 | 13. Aerosol |
| 10:30-11:00 | 14. Discussion session on common issues for atmosphere ECVs [<i>ECMWF to lead</i>] |
| 11:00-11:30 | Tea / coffee |
| 11:30-12:00 | 15. Glaciers |
| 12:00-12:30 | 16. Land cover |
| Tuesday p.m. | |
| 12:30-13:30 | Lunch |
| 13:30-14:00 | 17. Fire |
| 14:00-14:30 | 18. Discussion session on common issues for land ECVs [<i>MPI to lead</i>] |
| 14:30-15:00 | Tea / coffee |
| | SESSION 3: CMUG: Facilitation and support |
| 15:00-15:30 | 19. ECMWF reanalysis data which ECV projects need [<i>David Tan or Dick Dee, ECMWF</i>] |
| 15:30-16:00 | 20. Confronting models with observations [<i>Robert Ferraro, JPL / NASA</i>] |
| 16:00-16:30 | 21. The IS-ENES approach to model evaluation [<i>George Tselioudis, Academy of Athens</i>] |
| | SESSION 4: Integration and commonality towards achieving the goals of the CCI |
| 16:30-18:00 | 22. Discussions in three parallel breakout groups (land, marine, atmos) – on the issues presented in Sessions 1, 2 and 3. |
| Tuesday evening “an Integration Dinner” (self-funded dinner at a local restaurant) | |
| Wednesday a.m. | |
| 09:00-10:00 | 23. Discussion groups continue by preparing the written notes of their discussions which will form the <u>Meeting Report</u> . People can move between groups if they wish. |
| 10:00-11:00 | 24. Plenary session reporting back on breakout groups [<i>Rapporteur from each breakout group to present results, RS to lead</i>] Plenary discussion on all reports. |
| 11:00-11:30 | Tea / coffee |
| 11:30-12:00 | 25. Future promotion and links to modelling groups [<i>Roger Saunders, Met Office</i>] |
| 12:00:12:15 | 26. Conclusion [<i>CMUG / ESA</i>] |

E. Invitees

1. CMUG: Saunders, Ringer, van der Linden, Loew, Kinne, Khlystova, Planton, Phulpin, Tan, Dee
2. ESA: Mark Doherty, Pierre-Philippe Mathieu, Pascal Lecomte (not Weds), Stephan Bojinski (not Weds), Victoria Bennett (not Weds), Karen Woudberg, Cat Downy (IGBP-ESA), Stephen Plummer (Fire / Glaciers)(not Weds) Craig Donlon (SST)
3. ECV projects:

| | Project Lead - attendee 1 | Attendee 2 | Attendee 3 |
|--------------|---------------------------|-----------------|---------------------|
| CCI | Emilio Chuvieco | Martin Schulz | Arnd Berns-Silva |
| Fire | Frank Paul | Sven Kotlarski | |
| Glaciers | Pierre Defourny | Dimitri Lederer | |
| Landcover | Thomas Holzer-Popp | | |
| Aerosol | Michel van Roozendaal | Martin Dameris | |
| Ozone | Rainer Hollmann | Colin Jones | |
| Clouds | Michael Buchwitz | Harmut Boesch | |
| GHG | Michaël Ablain | Joël Dorandeu | Magdalena Balmaseda |
| SL | Chris Merchant (not Weds) | Nick Rayner | |
| SST | Shuba Sathyendranath | Mike Grant | Stefano Ciavata |
| Ocean colour | | | |
4. Experts (Presentations and discussion):
 - Marco Giorgetta, MPI
 - Robert Ferraro, JPL
 - Veronika Eyring, DLR
 - George Tselioudis, Columbia University
 - Sébastien Denvil, IPSL
 - Adrian Simmons, WOAP
 - Richard Jones, Met Office

Internal Report for CCI and ESA on the CMUG integration meeting

This report will describe the actions agreed by ECV projects at the meeting whose aim is to achieve better integration of the CCI (and will include updates to URDs and Product Spec. docs). The outline of the report will be finalised at the meeting and the content finished after the meeting with input from attendees and others as appropriate.

Inputs for the meeting report will include, inter alia:

1. Assessing how URDs are in line with the needs of the Climate Modelling and Climate Research Groups communities in the context of CMUG needs and GCOS requirements. (This is a summary of CMUG D2.1)
2. Identifying potential commonalities (e.g. in terms of data needs, methodology for data assessment / error characterisation) and issues, to achieve a climate perspective across individual CCI projects.
3. Quantifying the total data assessment effort (and potential gaps) of the CCI programme, describing the specific data-model confrontation activities across CCI projects
4. Specifying some small-scale research activities to be performed to address gaps in data assessment portfolio.

External Report for climate scientists and funding organisations

This report will be written by CMUG and will describe the strategic position of the CMUG, within the context of the CCI, within the international arena. The source material will be the science positioning of the ECVs discussed at the meeting in the context of what is

Inputs for the meeting report will include, inter alia:

1. Identifying the contribution of CCI at programmatic level to wider European and International efforts (i.e. describing the potential added-value of CCI products to these efforts),
2. Describe the ongoing partnerships with the different climate actors,
3. Outline the possible impact that CCI will have over the next few years to support the foundation of climate monitoring, modelling and development of climate services in Europe
4. Describe possible activities to be performed to achieve more added-value and strategic links