The CCI Open Data Portal

CCI Colocation Meeting Sept 2015
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& the CCI Open Data Portal Project Team
Contents:

1. Project objectives
2. Project partners and interactions with CCI teams
3. Progress so far
4. Next steps
Project objectives:

Develop an Open Data Portal to provide a central point of harmonised access to mature CCI ECV datasets

- to complement and unify the work of the individual CCI teams
- “shop window” for the CCI programme
- an iterative development with opportunities for review and evolution
- key requirements: user-friendly, reliable, long-term availability
- a living dynamic environment benefiting external users and CCI partners
Project partners

- **esa**
  - Customer
  - Prime Contractor
- **Telespazio**
  - A Finmeccanica/Thales Company
- **CGI**
- **Brockmann Consult GmbH**
- **Science & Technology Facilities Council**
- **University of Reading**

SUB-CONTRACTORS
Portal/CCI Team Engagement

- Direct contact on specific issues, e.g.
  - Providing ECV datasets
  - Data formatting/metadata queries
  - Proposed changes to project web sites
  - Submissions for Obs4MIPs
- Requirements surveys
- Participation at CCI programme meetings
  - CMUG Integration
  - CCI Co-location
- Other EO and climate-related events
  - ESA conferences, etc

User Requirements:
- Kevin Halsall (TVUK) - Portal Requirements
- Debbie Clifford, Jon Blower (University of Reading) - TEP Requirements

CCI project web sites:
- Andrew Brook, Clive Farquhar (CGI)

Provision of CCI ECV datasets and metadata:
- Victoria Bennett, Alison Waterfall, Anne Chadwick (CEDA/STFC)

Obs4MIPs support:
- Indranil Mustafee, Clive Farquhar (CGI)
Key elements:

- Rapid deployment of portal FTP site offering key ECV datasets
- Quick integration of existing programme web site
- Portal baseline requirements analysis
- Scoping “Collaborative platform for EO data exploitation for climate”
First set of ECV data from all projects now available
  - Initially: Phase 1 data and early Phase 2 data
  - “The most useful and most usable ECV data”
    • Decided with input from users, CCI project teams, ESA TOs, etc
• Free and open access
  - Users will in future be able to optionally register, to receive news of updates etc
• Terms and conditions and citation text provided for each dataset
  - Using existing citation instructions where they exist
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Terms and Conditions for use of CCI datasets from the CCI Open Data Portal

1) Users of the CCI data are requested to acknowledge the ESA Climate Change Initiative and <the specific CCI project> together with the individual data providers if the data are used in a presentation or publication. Please also cite any relevant dataset DOIs (see example citation text below).

2) Users of the CCI data are encouraged to interact with the CCI programme on use of the products, and to provide a copy of all reports and publications using the dataset. An offer of co-authorship should be considered, if the CCI data constitute a major component of a scientific publication.

3) Intellectual property rights (IPR) in the CCI data lie with the researchers and organisations producing the data.

4) Liability: ESA gives no warranty as to the quality or the accuracy of the CCI data or its suitability for any use, and shall not be held liable for any damage derived from the use of such data.

Example citation:
AuthorName1, AuthorName2 (<year>): ESA <ECV-name> Climate Change Initiative (ESA <ECV short name> CCI) data: <Product name and Version number> via Centre for Environmental Data Analysis, Publication Date, DOI
Portal and web sites

cci open data portal

6th CCI Collocation Meeting
Start: 09/29/2015 09:00
End: 10/01/2015 00:00

6th CCI Collocation Meeting
The 6th Collocation meeting is taking place in ESRIN, Italy, from the 29th September - 1st October 2015.

Registration: please make sure you register here if you plan to attend. It is essential that you be registered to be allowed on to the ESRIN sites: https://www.elseverywhere.com/ereg/newreg.php?eventid=1374998

New series of Sensor Performance, Products and Algorithms for AATSR
New series of Sensor Performance, Products and Algorithms for AATSR
A new series of Sensor Performance, Products and Algorithms (SPPA) web pages have been developed for Earth Explorer and Third Party Missions. For AATSR, these include detailed End of Mission (EOM) Documents including Performance and Event Reports, which may be useful for AATSR users. Please use the links below for access to the specific pages.

Public review of GCOS 2015 Status Report
Public review of GCOS 2015 Status Report
The 2015 GCOS Status Report, Status of the Global Observing System, is now open for public review. The review started on Friday, 24 July 2015 and ends on Monday, 7 September 2015, although we encourage comments before the end of August if possible to give time for them all to be adequately considered. So we can collate all the comments and track how they are dealt with, all comments MUST be sent on the form available below.

Comments should be sent to gcosreview@wmo.int

CCI Newsletters – COP-21 Special Issue
CCI Newsletters – COP-21 Special Issue
Keep up to date with what’s going on in all 15 of the CCI projects with their latest newsletters. Ahead of this year’s important COP-21 climate negotiations in November, the CCI projects have summarised what they’re doing as part of ESA’s contribution to supporting the UNFCCC to produce climate-quality satellite data.

Search
Search this site:

Upcoming events
- 6th CCI Collocation Meeting (5 days)
- GCOS Conference 2016 (166 days)
- Living Planet Symposium 2016 (226 days)
Access to Key CCI Data Products

ESA provides a single point of access to key CCI data products, through the following ftp service:
ftp://anon-ftp.ceda.ac.uk/neodc/esacci/

All data is free to download.

This service is an early implementation of the CCI Open Data Portal archive, the full content and functionality of which is currently under development. For further information contact Ed Pechorro (ed.pechorro@esa.int).

Access to Full Suite of CCI Data Products

The full suite of CCI data products can be accessed via the dedicated CCI ECV project sites: Aerosol, Cloud, Fire, Greenhouse Gases, Glaciers, Ice Sheets, Land Cover, Ocean Colour, Ozone, Sea Ice, Sea Level, Sea Surface Temperature, and Soil Moisture. All CCI data is free to download from these sites and registration procedures, where applicable, are kept to a minimum.
EO Data Exploitation for Climate

- ESA would like to explore the potential for a shared platform for exploitation, collaboration, analysis, sharing, mining and visualisation of large EO datasets for climate.
- The CCI portal team have developed a concept note for such a platform and a companion survey to identify whether such development is needed by the climate community.

https://www.surveymonkey.com/r/G8ZXPDN
Closes 14th October

- NB Splinter session later today (16:00-17:30 Jon Blower lead): An opportunity to see early results from the consultation, and contribute to discussion of the CCI community’s requirements and perspectives.
Next steps

Development and operation/maintenance of:

- Central Data Archive
- Metadata Catalogue
- Access to data through multiple interfaces and protocols
- Improvements to programme web site with catalogue search interface, helpdesk function, ECV dashboard, document library, etc...
- Support for maintenance of individual project web sites (consistent style and contents)

Supporting activities

- Support to ECV teams for submitting CCI data sets to the CMIP/Obs4MIPs database
- Exploitation platform requirements analysis
CCI Data Catalogues
Needs (human) interaction with CCI teams

Needs consistently formed data with standards-compliant metadata

- **Dataset catalogue**: one record per dataset, ISO19115 compliant records
  - Descriptive information and link to data location (in CCI Open Data Portal Archive, or elsewhere)

- **ESGF services**, faceted search etc. Relies on standards-compliant, netCDF with agreed metadata attributes for search facets

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- **Data discovery and other user services**
  - Consumed by web user search interface
  - CSW
  - ESGF Index Node
  - THREDDS Catalogue

- **Catalogue Generation**
  - ISO19115 Catalogue
  - Create Solr Index
  - Create ISO Records

- **Data ingest**
  - Quality Checker
drslib
  - ESG Publisher

- **CCI Data Archive**

- **Generate CCI Directory structure**
- Break-out session later today with more detail on DOIs, terms and conditions, web site support, Obs4MIPs, future refinements

Questions....?