

The CCI Open Data Portal

CMUG Integration Meeting, May 2015













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Primary objective - develop an Open Data Portal to provide a central point of harmonised access to mature CCI ECV datasets

- This is in addition to the data access mechanisms already provided by each CCI project intended to compliment and unify the work of the individual CCI teams
- Will act as a "shop window" for the CCI programme (explore, discover and access data, request support, share and collaborate through the on-line community...)
- Will be an iterative development with opportunities for review and evolution on an annual basis
- Key requirements: user-friendly, reliable, long-term availability
- A living dynamic environment benefiting both external users and CCI partners













Key elements:

- Start with:
 - Rapid deployment of portal FTP site offering key ECV datasets
 - Quick integration of existing programme web site within portal development contract
 - Portal baseline requirements analysis exercise
- Followed by 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)













Datasets

- ESA have listed potential data sets, need to refine this in discussion with teams
 - Initially: Phase 1 data & early Phase 2 data
 - Later: Phase 2 data
 - "The most useful and most usable ECV data"
 - Decide with input from users, CCI project teams, ESA TOs, etc
- Free and open access registration could offer additional benefits





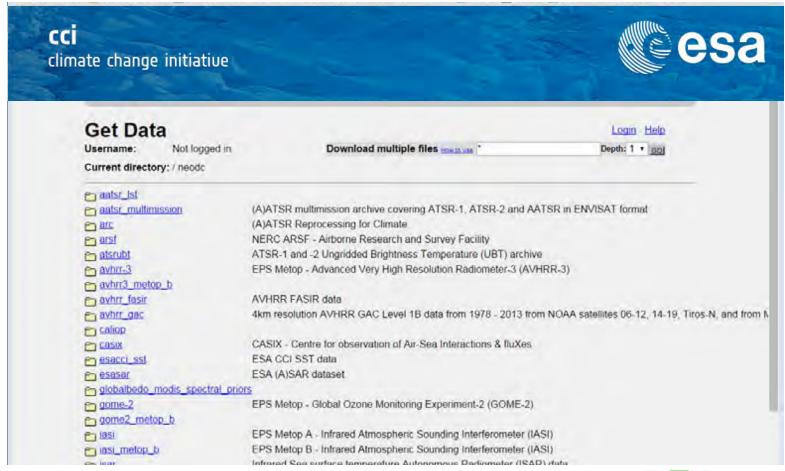








Example early access interface



ftp, http, ..





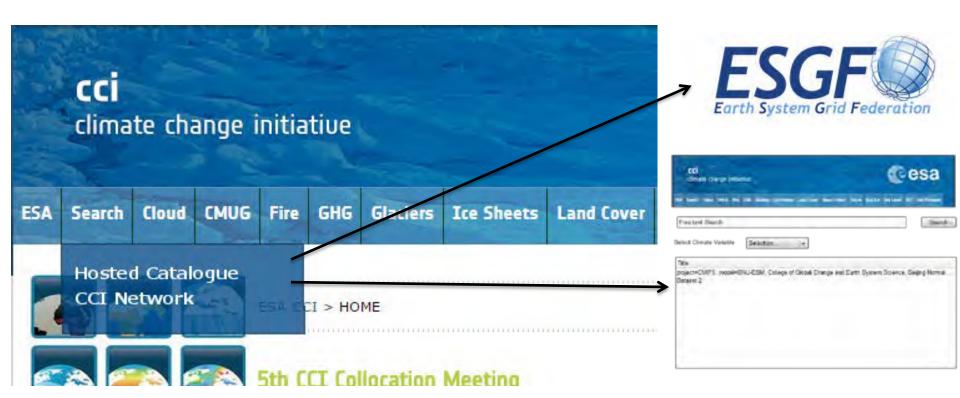








CCI Data Catalogues



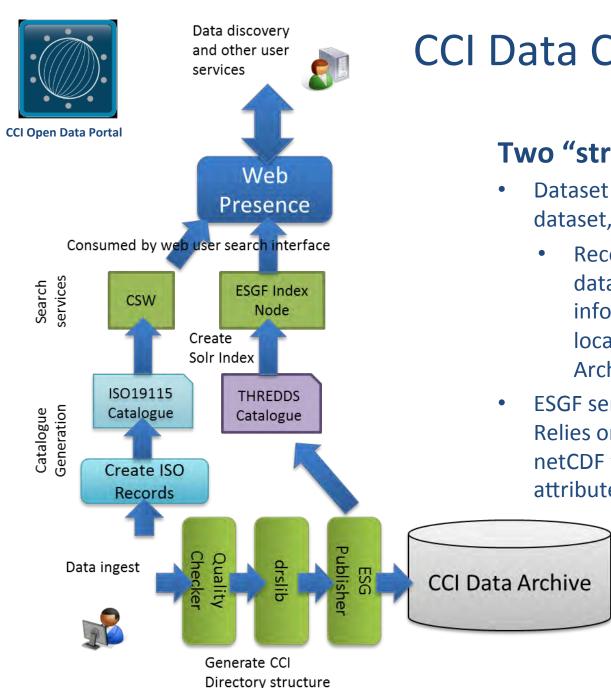












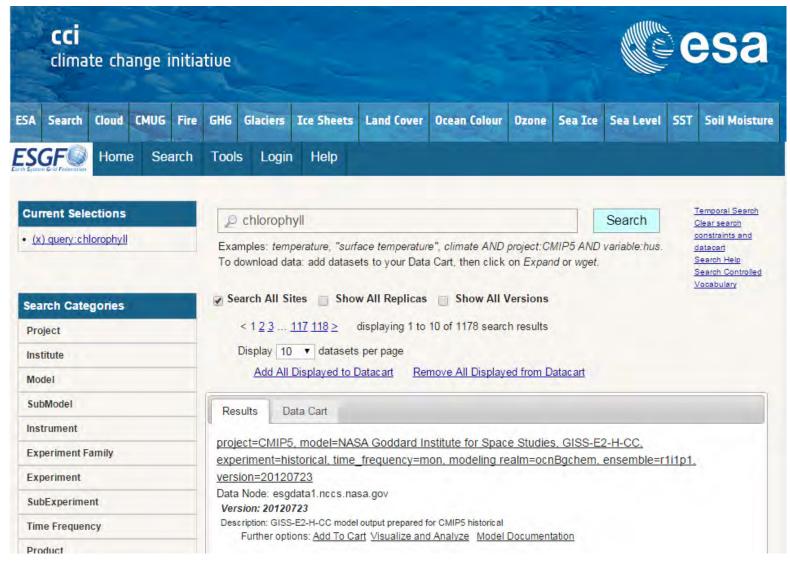
CCI Data Catalogues

Two "strands"

- Dataset catalogue : one record per dataset, ISO19115 compliant records
 - Records can be created for any dataset, just need 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



ESGF interface to CCI data (example)





Supporting activities

- Provide support to ECV teams for submitting CCI data sets to the CMIP/Obs4MIPs database
 - Co-ordination and planning roll-out plan
 - Training and assistance with data preparation
 - Submission via Portal ESGF node
- TEP Requirements Analysis
 - Looking beyond the CCI Portal
 - What is required to support the wider exploitation of EO-based data for climate?
 - One of many contributing activities













Beyond the CCI Open Data Portal

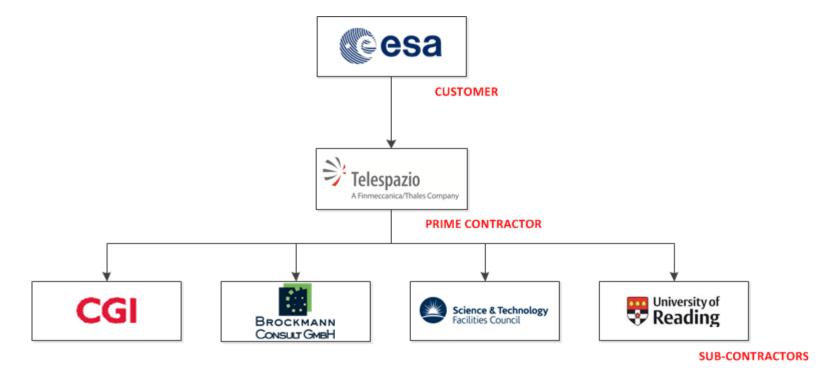
What does the community need most? Three angles...



"Climate Facebook" A platform for climate science collaboration, exploiting social media tools OOKBOOK "CDR cookbook" Access to ingredients and recipes for climate data record production



Project Partners















Portal/CCI Team Engagement

Key Personnel:

User Requirements Analysis

- Kevin Halsall (TVUK) Portal Requirements
- Debbie Clifford (University of Reading) TEP Requirements

CCI project web sites

Robin Moss (CGI)

Provision of CCI ECV datasets

Victoria Bennett, Anne Chadwick (CEDA/STFC)

Obs4MIPs support

Indranil Mustafee (CGI)













Portal/CCI Team Engagement

Direct contact from named personnel on specific issues, e.g.

- Timescale for providing relevant ECV datasets
- Data formatting/metadata queries
- Proposed changes to project web sites
- Status of/problems with submissions for Obs4MIPs

Requirements surveys

Participation at CCI programme meetings

- CMUG Integration
- CCI Co-location

Other EO and climate-related events

C3S workshop, ESA conferences, etc













Portal Requirements Analysis

Objective – to gather information from:

- Potential new users within the climate community
- Existing users of CCI ECV data
- CCI teams
- CCI documentation

Status – at a very early stage

- Early survey prepared to take advantage of opportunity presented by CMUG meeting
- Individual engagement with specific "external" users and each ECV team to follow shortly
- An iterative development with opportunities for review & evolution on an annual basis

Survey

- Can be found at: https://www.surveymonkey.com/r/3NJFG76
- A link to the survey will also be included on the CCI homepage: <u>cci.esa.int</u>

To discuss further please talk to me (VB), or after this meeting, contact Kevin Halsall at TVUK (kevin.halsall@telespazio.com)













QUESTIONS....?









