



## Sea Level CCI project Phase II

## System Engineering Status





## WP3000 System Evolution Tasks

- WP3100: System Engineering activities (CGI-led)
  - ✓ ○ WP3110: System Specification (CGI)
    - Documenting evolutions from Phase I and addressing key system issues within Phase II including interoperability and commonality across CCIs
  - ✓ ○ WP3120: Engagement with SEWG (CGI)
    - Fully participate in cross-CCI System Engineering Working Group activities, which look at common system engineering aspects which affect all ECVs.
  - ✓ ○ WP3130: Engagement with DSWG (CLS)
    - Fully participate in cross-CCI Data Standards Working Group activities, which look at common standards for metadata and data across the ECVs.
- WP3200: System Evolution (CLS-led)



## Deliverables associated with WP3

- System Specification Document (SSD)
  - Defines **how** the system will do it
  - **D3.1 SSD Issue 1.1** – [May 2015] – submitted & accepted
- System Verification Report (SVR)
  - Describes the tests undertaken to **ensure** the system will do it
  - **D3.2 SVR Issue 1.1** – no update is planned and v1.1 of the document remains the up to date version

No change



## System Engineering Working Group (SEWG)

### •What is the point of the SEWG?

- Cost effectiveness “*as a whole*” [SoW]

### •Who participates?

- Aerosol ECV, Cloud ECV, Fire ECV, GHG ECV, Ice Sheets ECV, Land Cover ECV, Ocean Color ECV, Ozone ECV, Sea Ice ECV, Sea Level ECV, SST ECV & ESA

### •Most Useful aspects of SEWG & DSWG (2015 survey):

- **Harmonisation** of CCI data & format
- Discussion of **new ideas** on data harmonisation and system engineering
- Identifying **common challenges** on operational usage
- Discussion of **common ideas** on operational usage
- **Receiving Information** from CCI programme on major accomplishments, plans and issues. .



## SLCC involvement in SEWG

### • Participate in SEWG meetings

- Attend and contribute to the SEWG telecoms / meetings
- Responded to the SEWG survey, key points raised:
  - *Most useful aspects:* key was ability to share experiences and common issues between different ECV teams
  - *Least useful aspects:* sometimes hard to access the full record of the various SEWG / DSWG documents in a single central location
  - *Structure, frequency and nature of the meetings:* we deem these to be all fine
  - *New topics of interest:* a need for climate data taxonomies, which could be something that the DSWG leads or participates in
  - *Adding products to the CEOS ECV inventory:* This is something where more guidance would be appreciated.



## SLCC involvement in DSWG / SEWG in 2016

### • Key issues discussed at 2016 Collocation (raised in 2015)

- Links to C3S and Copernicus – CCI are not part of inner Copernicus network, but shall contribute to C3S
- Obs4MIPS – support for the submission provided by the CCI Open Data Portal team
- Climate Data Taxonomies – would be good to get assistance and guidance from the DSWG to help ensure datasets correctly match the such new end-user needs, such as they can be correctly interpreted by human readers and software

DSWG / SEWG wiki: <http://esacci.pbworks.com>



## SLCC involvement in CCI Open Data Portal

### •Activities with the CCI Open Data Portal (ODP) Web Presence team:

- Engage with the CCI ODP team to allow them to understand **website deployment characteristics** – namely Drupal version, modules installed
- Update the look and feel of the SL CCI portal website in accordance with the **Style Guide** generated by the CCI ODP team – **Done**. The aim of this style guide was to promote consistency of views between the various CCI project webpages
- **Response to requests** from the CCI ODP team, including:
  - Update and enhance Drupal core and modules as suggested by Portal Team – for security, and user experience as well as backup
  - Fix any broken hyperlinks identified by the CCI ODP Team

### •Future activities with the CCI ODP Web Presence team:

- **Update** Drupal core and modules if advised – a set of quick wins regarding changes to the website will be provided by the CCI ODP team in coming weeks
- Respond to a future requests for updates in the style of the SLCC website in line with further CCI Portal **Style Guide**



## SLCC involvement in CCI Open Data Portal

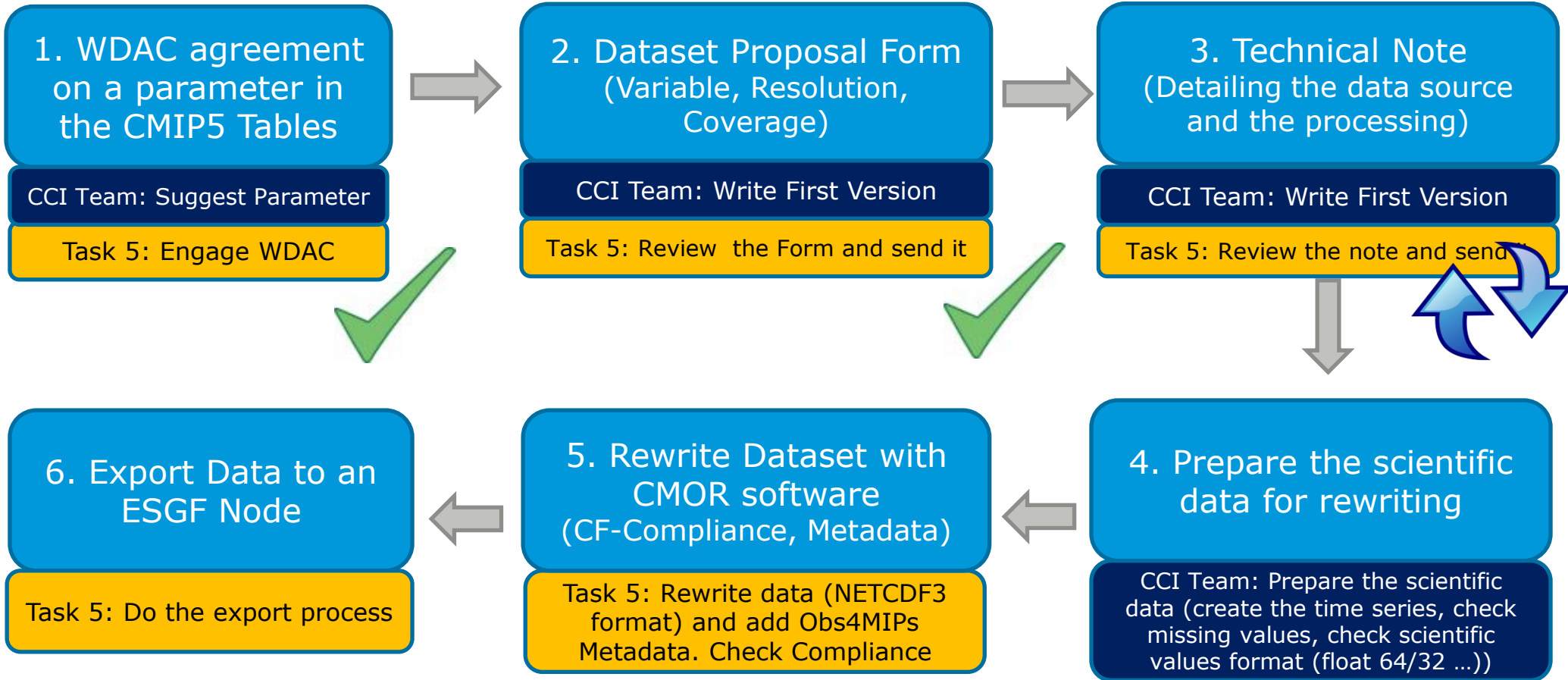
### •Task 5: Obs4MIPs.

- Objectives is to provide a new dataset for Climate Modelers via the Observations for Model Inter-comparisons activity.
- We have responded to the call from the Obs4MIPs / WDAC team that came in late 2015
- For SLCC it will be an updated version of the AVISO dataset provided in 2011 – ADT
- Multiple steps involved:
  1. Agree with WDAC the most suitable parameter that matches CMIP5 standard outputs – [Sea Surface height above geoid \(ADT\) maps to the CMIP5 parameter zos, sea\\_surface\\_height\\_above\\_geoid](#)
  2. Submit a Data Set form, that describes key parameters such as temporal range and spatial resolution –[done](#)
  3. Submit a Technical Note, that describes process to generate the dataset – [first versions produced and submitted, review comments received and being responded to.](#)
  4. Convert the dataset to the Obs4MIP netCDF format with appropriate metadata – [Dataset to be used is the recent SL\\_CCI v2.0 Sea Level Anomalies \(1993 to 2015\).](#) Training material received from CCI ODP team





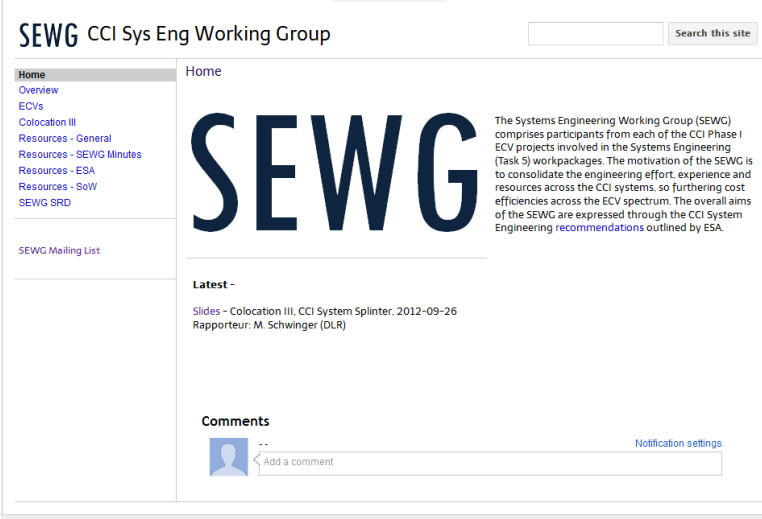
### Obs4MIPs processing steps





## Way forward

- **Continued SLCCI consortium activity In SEWG**
  - Engage with the DSWG / SEWG if relevant in the next period
- **Support the CCI Open Data Portal team**
  - Update the SL website if directed
  - Continue on the Obs4MIPs submission process



SEWG CCI Sys Eng Working Group

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# SEWG

The Systems Engineering Working Group (SEWG) comprises participants from each of the CCI Phase I ECV projects involved in the Systems Engineering (Task 5) workpackages. The motivation of the SEWG is to consolidate the engineering effort, experience and resources across the CCI systems, so furthering cost efficiencies across the ECV spectrum. The overall aims of the SEWG are expressed through the CCI System Engineering recommendations outlined by ESA.

**Latest -**

Slides - Colocation III, CCI System Splinter, 2012-09-26  
Rapporteur: M. Schwinger (DLR)

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# Thank you

