

# Copernicus Workshop on Climate Observation Requirements

29 June - 2 July 2015



Seed questions for the Working Groups as at 19 Jun 2015

## **Topic A: Collection and processing for *in situ* data: atmosphere, ocean, land, cryo- & bio-spheres**

- A1. What activities are needed to support data rescue and collection?
- A2. What are the requirements for homogenized and harmonized *in situ* data records?
- A3. How can access to national holdings of *in situ* climate data be improved?
  - Scientific, technical, policy considerations

## **Topic B: Collection and reprocessing for (Level-1) satellite data records**

- B1. What are the priorities to support satellite data rescue?
- B2. What are the requirements for timely reprocessed product streams?
  - Interim CDRs?
- B3. How should C3S link to international co-ordinating activities in this area?
  - Intercalibration, e.g. GSICS
  - SCOPE-CM
  - CEOS/CGMS WG-CLIMATE
  - What else is needed to achieve a comprehensive inventory of reprocessing activities?
- B4. Are there any access issues for satellite datasets?

## **Topic C: Observational ECV and gridded products**

- C1. What datasets are currently available and how could they be used for climate services?
- C2. What kind of input data, tools and activities are needed to support further development and production of these datasets?
- C3. What could be the role of Copernicus (and C3S in particular) in facilitating this development?

## **Topic D: General issues**

- D1. What quality/maturity criteria should be applied to candidate datasets for the Climate Data Store?
- D2. What is needed to achieve open access?
- D3. What are the requirements for metadata (relevant to WIGOS)?
- D4. What are the observation requirements for validating climate model simulations, past, present and future?



**For context - tentative list of ECVs/indicators to be covered by the C3S**

Surface air temperature	<i>Ocean colour</i>	Snow cover
Surface precipitation	<i>Sea ice</i>	<i>Glaciers &amp; ice caps</i>
Water vapour	<i>Sea level</i>	Albedo
Surface radiation budget	<i>Sea surface temperature</i>	FAPAR
Earth radiation budget	Global ocean heat content	<i>Fire</i>
<i>Carbon dioxide &amp; methane</i>		<i>Ice sheets</i>
<i>Ozone &amp; aerosols</i>		Lakes
<i>Cloud properties</i>	CO <sub>2</sub> partial pressure	Permafrost
Wind speed & direction	Ocean acidity	<i>Land cover</i>
Upper air temperature	Sea surface salinity	Leaf area index
Other long-lived greenhouse gases	Current salinity	<i>Soil moisture</i>