COPERNICUS CLIMATE CHANGE SERVICE

Copernicus Workshop on Climate Observation Requirements

29 June - 2 July 2015

Agenda as at 23 June 2015

Monday 29 June		
08:30-09:00	Registration	
Session 1: Welcome and scene-setting		**Chair: Dick Dee (ECMWF)**
09:00-09:30	Welcome / C3S overview	Juan Garces de Marcilla/ Jean-Noël Thépaut (ECMWF)
09:30-10:00	Outcomes of the CDS Technical Infrastructure Workshop	Baudouin Raoult (ECMWF)
10:00-10:15	Rationale for themes and topics	Erik Andersson (ECMWF)
10:15-10:45	GCOS perspective on observation requirements	Carolin Richter (GCOS)
10:45-11:00	*Coffee break*	
Session 2: Observation requirements for the Climate Change Service		**Chair: Carolin Richter (GCOS)**
11:00-11:30	Requirements from a climate policy perspective	Alfonso Gutierrez (DG-CLIMA)
11:30-12:00	Requirements from water resource management	Jutta Thielen (JRC)
12:00-12:30	Requirements from renewable energy applications	Virginie Dordonnat (RTE)
12:30-13:00	Requirements from agriculture applications	Nadine Gobron (JRC)
13:00-14:00	*Lunch break*	

Session 3: Input requirements for Earth-system reanalysis		**Chair: Nick Rayner (MetOffice)**
14:00-14:30	Historic weather observations for global reanalysis	Phil Jones (UEA)
14:30-15:00	Near-surface observations for coupled atmosphere-ocean reanalysis	Patrick Laloyaux (ECMWF)
15:00-15:30	Reanalysis requirements for satellite data	Shinya Kobayashi (JMA)
15:30-16:00	*Coffee break*	
16:00-16:30	Terrestrial observation requirements for reanalysis of the carbon cycle	Richard Engelen (ECMWF)
16:30-17:00	Oceanic observation requirements for biogeochemistry	Shubha Sathyendranath (PML)
17:00-19:00	*Poster session & ice-breaker*	
	Close Day 1	
Tuesday 30 June		
Session 3 (continued): Input requirements for Earth-system reanalysis		**Chair: Nick Rayner (MetOffice)**
09:00-09:30	Observation requirements for regional reanalysis	Richard Renshaw (MetOffice)
Session 2 (concluded): Observation requirements for the Climate Change Service		**Chair: Carolin Richter (GCOS)**
09:30-10:00	Observations for model verification/validation	Peter Gleckler (WDAC & PCMDI/LLNL)
Session 4: Data rescue, harmonization and homogenization		**Chair: Jutta Thielen (JRC)**
10:00-10:30	Requirements & challenges for *in situ* data rescue and homogenization	Stefan Brönnimann (U. Bern)
10:30-11:00	Workshop photograph - meet at Reception *Coffee break*	
11:00-11:30	Practice in international data collection and harmonization	Matt Menne (NOAA-NCDC)
11:30-12:00	The International Data Rescue (I-DARE) Portal	Peter Siegmund (KNMI)
Session 5: ECV/gridded products		**Chair: Stephen Briggs (GCOS)**
12:00-12:30	Satellite-based ECV products	Roger Saunders (MetOffice)
12:30-13:00	*In situ*-based ECV products	Nick Rayner (MetOffice Hadley Centre)
13:00-14:00	*Lunch break*	

Session 5 (continued): ECV/gridded products		**Chair: Stephen Briggs (GCOS)**
14:00-14:30	High-resolution regional observations and products	Albert Klein-Tank (KNMI)
Session 6: Working groups, Topic A: Collection and processing for *in situ* data: atmosphere, ocean, land, cryo- & bio-spheres		
14:30-14:40	Introduction to the working groups	Dick Dee (ECMWF)
14:40-16:10	Working group discussions *Seed questions on separate sheet*	
16:10-16:40	*Coffee break*	
Session 7: Working groups, Topic B: Collection and reprocessing for (Level-1) satellite data records		
16:40-18:00	Working group discussions *Seed questions on separate sheet*	
	Close Day 2	
19:30 for 20:00	*Workshop dinner at Zero Degrees, Reading*	*Drinks from 19:30, buffet from 20:00*
Wednesday 1 July		
Session 8: Evaluation and quality control criteria		**Chair: Mark Dowell (JRC)**
09:00-09:30	*Intermediate summary from the 3 working group chairs (2 topics in 10 minutes per group)*	Working group chairs
09:30-10:00	Protocols for assessing quality of observational datasets	Jan-Peter Muller (UCL)
10:00:10:30	System maturity assessment	Jörg Schulz (EUMETSAT)
10:30-11:00	Making the transition from research exercises to operational life cycles for ECV product generation	Pascal Lecomte (ESA)
11:00-11:30	*Coffee break*	
Session 9: Access to data and metadata		**Chair: Otis Brown (WDAC)**
11:30-12:00	Provision of and access to NMHS data	Eric Petermann (EUMETNET)
12:00-12:30	Observational feedback: what reanalysis tells us about the quality of observations	Paul Poli (ECMWF)
12:30-13:00	Exploitation of the Sentinels by the C3S	Pierre-Philippe Mathieu (ESA)
13:00-14:00	*Lunch break*	

Session 10: Working groups, Topic C: Observational ECV and gridded products	
14:00-16:00	Working group discussions *Seed questions on separate sheet*
16:00-16:30	*Coffee break*
Session 11: Working groups, Topic D: General issues	
16:30-18:00	Working group discussions *Seed questions on separate sheet*
18:00	Close Day 3
Thursday 2 July	
Session 12a: Working group drafting sessions	
09:00-10:30	Working groups prepare summaries for Plenary
10:30-11:00	*Coffee break*
Session 12b: Plenary	
11:00-13:00	Working group summaries Plenary discussions
13:00	Close Day 4 – End of workshop

A separate Royal Met Soc meeting on Reference Observations and Calibration of (Re)Analyses will take place at ECMWF from 13:30 to 17:30. For further details and to register, please visit:

http://www.rmets.org/events/reference-observations-and-calibration-reanalyses

Notes:

1) Session chairs subject to confirmation.
2) Working group chairs & rapporteurs subject to confirmation:
   I. Mark Dowell & Gianpaolo Balsamo
   II. Pascal Lecomte & Erik Andersson
   III. Jörg Schulz & Paul Poli