EMS Annual Meeting Abstracts
Vol. 14, EMS2017-469, 2017

The Copernicus Climate Change Service Global Land and Marine Observations Database

Peter Thorne (1), Corinne Voces (1), Matthew Menne (2), Eric Freeman (2), Robert Dunn (3), David Berry (4), Ag Stephens (5), Liz Kent (4), John Kennedy (3), Chris Atkinson (3), Kate Willett (3), Jay Lawrimore (2), Huai-Min Zhang (2), Simon Noone (1), and Anthony Kettle (1)

(1) Maynooth University, Irish Climate Analysis and Research Units, Geography, Maynooth, Ireland (peter.thorne@nuim.ie), (2) NOAA's National Centers for Environmental Information, Asheville, NC, USA, (3) Met Office, Exeter, UK, (4) National Oceanography Centre, Southampton, UK, (5) Science and technology Facilities Council, Swindon, UK

This presentation shall outline the planned service provision for a new Copernicus Climate Change Service concerning the availability of in-situ fundamental climate data records. The service brings together a number of European parties working in tandem with NOAA NCEI to provide via the C3S Data Store improved access to land and marine surface meteorological records for climate research. This presentation shall provide a high level overview of service aims and timeline. On the marine side the service shall aim to improve the existing ICOADS holdings with improved quality flagging, duplicate removal etc. On the land side a set of integrated holdings across Essential Climate Variables and timescales is envisaged. Data shall be made available via the C3S data store under a common data model. The Service shall interact with sister lots concerned with data rescue, provision of baseline / reference network data, and provision of in-situ data products and the broader Copernicus Climate Change Service and Copernicus services.