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Uncertainties in **E**nsembles of **R**egional **R**e-**A**nalyses

Deliverable D1.7
All the quality assessed sub-daily data made available to WP2 and publicly available through WP4

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Brief report outlining the data deliveries made in accordance with UERRA D1.7 and 1.8

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This short document reports on Deliverables 1.7 (D1.7)[1] and 1.8 (D1.8)[2] of the EU-FP7-SPACE-2013-1 project (*Uncertainties in Ensembles of Regional Reanalyses*: UERRA, Grant agreement no.: 607193), Work Package 1 (WP1).

Following the recovery and quality control of 8.63 million observations led by the Spanish UERRA partners and 221K observations, led by the Romanian UERRA partners, as well as the collection by University Rovira i Virgili Centre for Climate Change (C3) of 112 million observations from open data sources in Europe (e.g. Catalonia, Norway, Sweden), the datasets developed by UERRA WP1 are being made available to UERRA partners and publicly, through a number of data centres and archives (Table 1).

The recovered and collected data are now available in final format on the C3 server, ftp://130.206.36.123 (username: C3_UERRA, password: c3uerra17, folder: D1.6_V3). To ensure provenance and traceability, several versions of the recovered data are given in the one file: the original values, values subjected to statistical and spatial quality control, and the final values converted to SI units. Detailed metadata on temporal availability of each variable for each station, the conversion methods used, and the location of the original data source are also provided.

Daily averages and totals (rainfall only) have been calculated from the recovered data, following discussions with WP3 and WP4 on the data format they require and the World Meteorological Organization recommendations to calculate values at the daily scales from sub-daily observations. These observations are also available on the server (folder: ECA&D-dailyaves.dir).

Data have been made available for UERRA WP2, WP3 and WP4 partners, completing D1.7. We have also delivered data to data portals as the European Climate Assessment and Dataset (ECA&D) and the Global Precipitation Climatology Centre (GPCC). Additionally, data recovered from sources provided by National Meteorological Services (NMSs) in Slovenia (Slovenian Environmental Agency), Catalonia (MeteoCat) and Germany (DWD) have been returned to the relevant NMS.

We are in final discussion with the International Surface Pressure Databank (ISPD), the International Surface Temperature Initiative (ISTI) and the ongoing C3S/Lot 2 service through the Brit Science and Technology Facilities Council (STFC)/Centre for Environmental Data Analysis (CEDA), the US National Center for Environmental Information (NCEI), the UK-MO HadISD hourly dataset and the Meteorological Archival and Retrieval System (MARS) to determine the best format in which to upload the data to their respective archives. When this is complete, we will also make the data available to NMSs in countries for which data have been rescued, to enable them to add the rescued datasets to their national databases and foster the culture of data and knowledge sharing. We expect these tasks (and therefore D1.8) to be completed by early May.

1 All the quality assessed sub-daily data made available to WP2 and publicly available through WP4, including additional datasets of daily or monthly totals and averages that will be of use in Task 1.3 and WP3.

2 Inclusion of data from D1.3–D.1.6 in the ECA&D system and MARS archive.

Delays in the completion of D1.7 and D1.8 are due largely to the increased number of observations digitised by WP1 (see D1.3 and D1.4), over twice the amount originally planned. Working with 8.63 million observations rather than the expected 4 million has made the preparation of the final datasets more complicated than expected, resulting in delays. Earlier preliminary totals of data collected from Norway, Sweden and Catalonia inadvertently included some missing values, hence the lower totals here than in previous deliverables.

Table 1. Status of data delivery from UERRA WP1 to relevant partners and recipients.

Data recipient	Data delivered	Delivery status
UERRA WP2 (UK Met Office, MeteoFrance)	All available subdaily data	Delivered
UERRA WP3 (DWD)	All available subdaily data	Delivered
UERRA WP4 (KNMI)	All available subdaily data and daily averages and totals	Delivered
ECA&D system	All available subdaily data and daily averages and totals	Delivered
GPCC	All available daily and subdaily precipitation data	Delivered
NMSs that provided data sources for digitisation (MeteoCat, Slovenian Environmental Agency and DWD)	All data digitised from the sources provided	Delivered
ISPD	All available subdaily data	In progress
ISTI & STFC/CEDA	All available subdaily data	In progress
NCEI	All available subdaily data	In progress
UK-MO HadISD	All available subdaily data	In progress
MARS archive	All available subdaily quality-controlled data	In progress
NMSs in countries for which data have been rescued	All available subdaily quality-controlled data for each country	In progress