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Uncertainties in Ensembles of Regional Re-Analyses

Deliverable D1.8

**Inclusion of D1.3, D1.4, D1.5, D1.6 data in the
ECA&D system and MARS archive**

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Brief report outlining the data deliveries made in accordance with UERRA D1.8

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This short document reports on Deliverable 1.8 (D1.8)¹ of the EU-FP7-SPACE-2013-1 project (*Uncertainties in Ensembles of Regional Reanalyses*: UERRA, Grant agreement no.: 607193), Work Package 1 (WP1). As after delivering D1.7² to both UERRA's partners and global data centres, new data from the Norwegian Meteorological Service have been made available to URV/C3, this report also provides an update of the information given in Table 1 of D1.6³. Therefore, Table 1 below gives details of the data gathered from open data sources in Europe.

Table 1. Updated statistics of data provided by MetNo, SMHI and MeteoCat for UERRA WP1. Variable acronyms represent air temperature (TT), atmospheric pressure (SLP), rainfall (RR) relative humidity (RH), cloud cover (CC), snow depth (SD), wind direction (WD) and wind speed (WS). Italic highlights new data accessed

Provider	Time Period covered	Variables Provided	Frequency Observations	Data Volumes
MetNo (Norway)	1960–1980	TT, WD, WS, RR	Generally 3-4 times a day, some stations hourly	7.2 million
<i>MetNo (Norway)</i>	<i>1981–2016</i>	<i>TT, WD, WS, RR</i>	<i>Generally 3-4 times a day, some stations hourly</i>	<i>30.4 million</i>
SMHI (Sweden)	1945–2009	TT, SLP, RR, RH, SD, CC	Precipitation daily, other observations from 3 times daily to hourly	41.1 million
MeteoCat (Spain)	1988–2015	TT, SLP, WD, WS, RR, RH	Hourly (SD daily)	63.6 million
Total Volumes of Data provided by European open data sources				142.3 million

¹ Inclusion of data from D1.3–D1.6 in the ECA&D system and MARS archive.

² All the quality assessed sub-daily data made available to WP2 and publicly available through WP4. This will include additional datasets of daily and monthly averages and totals as some will likely be of use in this form in Task 1.3 and in WP3

³ Homogeneity and homogenisation assessments of station data as they are collected from the NMHSs and from other sources



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As duly documented in D1.7, a number of global data centres have benefited of the datasets developed and gathered from open data sources under UERRA/WP1. Table 2 complements the information given in Table 1 of D1.7, updates the status of the data delivered to global data centres and shows the status of datasets provision to the ECA&D system and MARS archive.

Table 2. Updated status of data delivery from UERRA WP1 to global data centres and ECA&D system and MARS archive.

Data recipient	Data delivered	Delivery status
ISPD	All available subdaily data	Delivered
ISTI & STFC/CEDA	All available subdaily data	Delivered
NCEI	All available subdaily data	Delivered
UK-MO HadISD	All available subdaily data	Delivered
MARS archive	All available subdaily quality-controlled data	Delivered through STFC/CEDA
ECA&D system	All available subdaily data and daily averages and totals	Delivered

ISPD: International Surface Pressure Databank (ISPD),
ISTI: International Surface Temperature Initiative
STFC/CEDA: Science and Technology Facilities Council/Centre for Environmental Data Analysis
NCEI: National Center for Environmental Information
UK-MO HadISD: UK Meteorological Office Hadley Centre Hourly dataset
MARS: Meteorological Archival and Retrieval System
ECA&D: European Climate Assessment & Dataset

As stated in D1.7, the recovered and collected data are available in final format on the C3 server, <ftp://130.206.36.123> (username: C3_UERRA, password: c3uerra17, folder: D1.6_V3).

To accomplish with D1.8, daily averages and totals (rainfall only) have been calculated from the recovered data, following 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) and have been already included in the ECA&D system by its managers.

This inclusion in the ECA&D system partly accomplishes D1.8, since the "inclusion" of the datasets recovered into the MARS Archive has been partially resolved. As naively and incorrectly stated in D1.8's title utilising the word "inclusion", data rescue practitioners cannot "include" data into any data archive or system, they can provide data but not include them, since this activity is responsibility of database managers.



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Even and recognising this mistake, efforts have been carried out by UERRA coordinator and WP1 leader to provide and include the datasets into MARS. These efforts have included discussions with either MARS or Copernicus for Climate Change Services (C3S) Climate Data Store (CDS) managers and C3S Lot 2 coordinator. An intermediate solution has been found by means of providing the UERRA's recovered datasets to the STFC/CEDA databank, which is being developed as result of the C3S contracted services.