PrimeWater

H2020-SPACE-2019
Research and Innovation Action

Expired 10-day forecasts from ECWMF for Mulargia

ECMWF_mediumrange_INITDATETIME+LEADTIME.nc

The project has received funding from the European Union's Horizon 2020.
Research and Innovation Programme under Grant Agreement No 870497.

European Commission

General

Description

10-day forecasts from ECMWF for four different domains covering the period 2015-2018. The forecasts are on the top level grouped into year and on the second level into separate folders named after their initialisation date.

There is one netcdf-file per time step including all variables.

Parameters

total precipitation (tp), temperature at two meters (2t), Surface solar radiation downwards (ssrd), 10 metre V wind component (10v), 10 metre U wind component (10u)

Unit

total precipitation [m]
temperature at two meters [K]
Surface solar radiation downwards [J m-2]
10 metre V wind component [m/s]
10 metre U wind component [m/s]

Coordinate reference systems

WGS 84 (EPSG: 4326)

Data type

netCDF

Keywords

Meteorology, Simulated

Public repository link

https://hypeweb.smhi.se/water-services/data-delivery-services/

Contact

Thomas Bosshard, Ilias Pechlivanidis
SMHI

Dataset coverage

Spatial coverage

Extent (top, left, down, right): 40,8,39,10

Spatial resolution

Regular grid with 0.25deg longitudinal and 0.22486 latitudinal grid spacing

Temporal coverage

2015 - 2018

Temporal resolution

6 hours

Usage

License conditions

CC-BY-SA-4.0

Citations and Acknowledgements

The meteorological forecasts from the European Centre for Medium-Range Weather Forecasts are freely available, yet for the PrimeWater project they were downloaded through SMHI as an ECMWF Member State.

Scientific Citations

Arheimer, B., Pimentel, R., Isberg, K., Crochemore, L., Andersson, J. C. M., Hasan, A., and Pineda, L.: Global catchment modelling using World-Wide HYPE (WWH), open data, and stepwise parameter estimation, Hydrol. Earth Syst. Sci., 24, 535–559, https://doi.org/10.5194/hess-24-535-2020, 2020. Hundecha, Y., Arheimer, B., Donnelly, C., & Pechlivanidis, I. (2016). A regional parameter estimation scheme for a pan-European multi-basin model. Journal of Hydrology: Regional Studies, 6. https://doi.org/10.1016/j.ejrh.2016.04.002

Lineage statement

Original data source

ECMWF MARS Server

Limitations on public access

Reserved or private data

PrimeWater

EMVIS S.A. | National Research Council of Italy | Swedish Meteorological and Hydrological Institute | EOMAP GmbH & Co.KG | International Water Association | Burgundy School of Business | Ente Acque della Sardegna | US Environmental Protection Agency | Commonwealth Scientific and Industrial Research Organization | Melbourne Water | SatDek

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