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Climate Change
Service

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ERA5 hourly data on single levels from 1979 to present

Overview

Download data

Quality assessment

Documentation

Clear all ()

Product type

- ☒ Reanalysis
- ☐ Ensemble members
- ☐ Ensemble mean
- ☐ Ensemble spread

Select all ()

Clear all ()

Variable ?

▼ Popular ()

- ☒ 10m u-component of wind
- ☒ 10m v-component of wind
- ☐ 2m dewpoint temperature
- ☒ 2m temperature
- ☐ Mean sea level pressure
- ☐ Mean wave direction
- ☐ Mean wave period
- ☐ Sea surface temperature
- ☐ Significant height of combined wind waves and swell
- ☒ Surface pressure
- ☒ Total precipitation

Select all ()

Clear all ()

▼ Temperature and pressure ()

- ☐ 2m dewpoint temperature
- ☒ 2m temperature
- ☐ Ice temperature layer 1
- ☐ Ice temperature layer 2
- ☐ Ice temperature layer 3
- ☐ Ice temperature layer 4
- ☐ Maximum 2m temperature since previous post-processing
- ☐ Mean sea level pressure
- ☐ Minimum 2m temperature since previous post-processing
- ☐ Sea surface temperature
- ☐ Skin temperature
- ☒ Surface pressure

Select all ()

Clear all ()

▼ Wind ()

- ☐ 100m u-component of wind
- ☐ 100m v-component of wind
- ☐ 10m u-component of neutral wind
- ☒ 10m u-component of wind
- ☐ 10m v-component of neutral wind
- ☒ 10m v-component of wind
- ☐ 10m wind gust since previous post-processing
- ☐ Instantaneous 10m wind gust

Select all ()

Clear all ()

- ▶ Mean rates ()
- ▶ Radiation and heat ()
- ▶ Clouds ()
- ▶ Lakes ()
- ▶ Evaporation and runoff ()
- ▼ Precipitation and rain ()

- ☐ Convective precipitation
- ☐ Convective rain rate
- ☐ Instantaneous large-scale surface precipitation fraction
- ☐ Large scale rain rate
- ☐ Large-scale precipitation
- ☐ Large-scale precipitation fraction
- ☐ Maximum total precipitation rate since previous post-processing
- ☐ Minimum total precipitation rate since previous post-processing
- ☐ Precipitation type
- ☐ Total column rain water
- ☒ Total precipitation

[Select all \(\)](#)[Clear all \(\)](#)

- ▶ Snow ()
- ▶ Soil ()
- ▶ Vertical integrals ()
- ▶ Vegetation ()
- ▶ Ocean waves ()
- ▶ Other ()

[Select all \(\)](#)[Clear all \(\)](#)

Year

- ☐ 1979
- ☐ 1980
- ☐ 1981
- ☐ 1982
- ☐ 1983

- ☐ 1984
- ☐ 1985
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- ☐ 2015
- ☐ 2016
- ☐ 2017
- ☐ 2018
- ☒ 2019
- ☐ 2020
- ☐ 2021

Select all ()

Clear all ()

Month

- ☒ January

- ☐ February
- ☐ March
- ☐ April
- ☐ May
- ☐ June
- ☒ July
- ☐ August
- ☐ September
- ☐ October
- ☐ November
- ☐ December

Select all ()

Clear all ()

Day

- ☒ 01
- ☒ 02
- ☒ 03
- ☒ 04
- ☒ 05
- ☒ 06
- ☒ 07
- ☒ 08
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- ☒ 30
- ☒ 31

Clear all ()

Time ?

- ☒ 00:00
- ☒ 01:00
- ☒ 02:00
- ☒ 03:00
- ☒ 04:00
- ☒ 05:00
- ☒ 06:00
- ☒ 07:00
- ☒ 08:00
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- ☒ 22:00
- ☒ 23:00

Clear all ()

Geographical area ?



Whole available region

With this option selected the entire available area will be provided



Sub-region extraction ()

North

36

West

68

East

88

South

24

Format

- ☐ GRIB
- ☒ NetCDF (experimental)

Clear all ()

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References

Citation

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Related data

ERA5 hourly data on pressure levels from 1950 to 1978 (preliminary version)

ERA5 hourly data on pressure levels from 1979 to present

ERA5 hourly data on single levels from 1950 to 1978 (preliminary version)

ERA5 monthly averaged data on pressure levels from 1950 to 1978 (preliminary version)

ERA5 monthly averaged data on pressure levels from 1979 to present

ERA5 monthly averaged data on single levels from 1950 to 1978 (preliminary version)

ERA5 monthly averaged data on single levels from 1979 to present

Related applications

Daily statistics calculated from ERA5 single levels hourly data

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