



Climate
Change

Reanalysis data and derived products



opernicus
Europe's Open Access Portal

IMPLEMENTED BY
ECMWF



Login/register

This is a new service -- your feedback will help us to improve it **BETA**

Home Search Datasets Applications Toolbox Help & support

Search results

Search dataset



All

Datasets

Sort by

Relevancy

Title

Product type

- Climate projections (5)
- Reanalysis (5)
- Satellite observations (12)
- Seasonal forecasts (6)
- Sectoral climate indices (2)

Variable domain

- Land (hydrology) (1)

Spatial coverage

- Europe (1)
- Global (3)

Temporal coverage

- Past (5)

Showing 1-5 of 5 results for **Reanalysis** x



Climate data for the European energy sector from 1979 to 2016 derived from ERA-Interim

The dataset contains wind speed, precipitation, relative humidity, global horizontal irradiance, sea level pressure, air temperature, snow depth and dewpoint depression near-surface data relevant to e...



ERA5 hourly data on single levels from 1979 to present

ERA5 is the fifth generation ECMWF atmospheric reanalysis of the global climate. Reanalysis combines model data with observations from across the world into a globally complete and consistent dataset...



Essential climate variables for assessment of climate variability from 1979 to present

The Essential Climate Variables for assessment of climate variability from 1979 to present dataset contains a selection of climatologies and monthly anomalies of Essential Climate Variables (ECVs) sui...



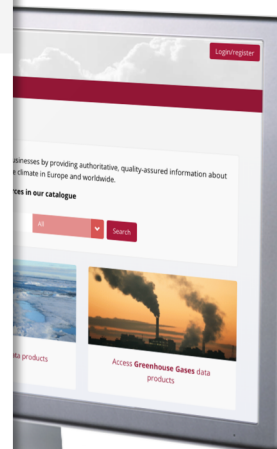
UERRA regional reanalysis for Europe on soil levels from 1961 to present

The UERRA dataset provides estimations of the climate in Europe based on model data combined with observations using the UERRA-HARMONIE system and MESCAN-SURFEX system. UERRA-HARMONIE is a 3-dimension...



ERA5 hourly data on pressure levels from 1979 to present

ERA5 is the fifth generation ECMWF atmospheric reanalysis of the global climate. Reanalysis combines model data with observations from across the world into a globally complete and consistent dataset...



ECMWF

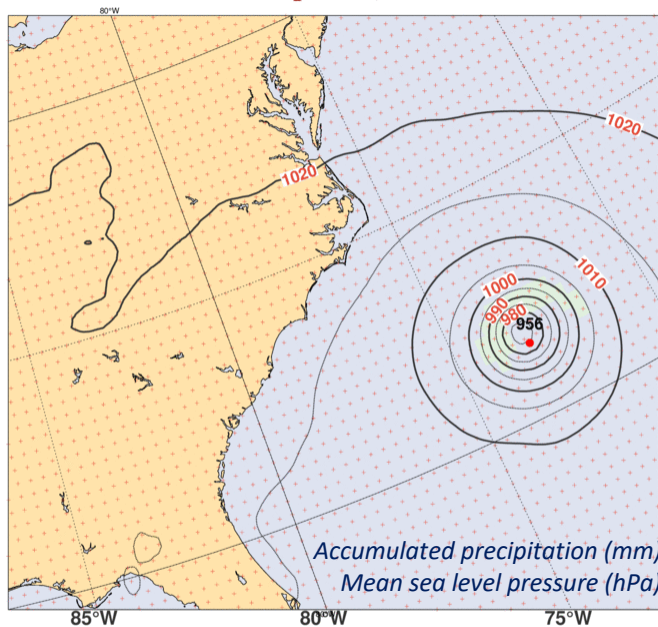


Climate
Change

ERA5 data from 1979-present

31 km, hourly data

Florence Thu 13 Sep 2018, 01 UTC for ERA5

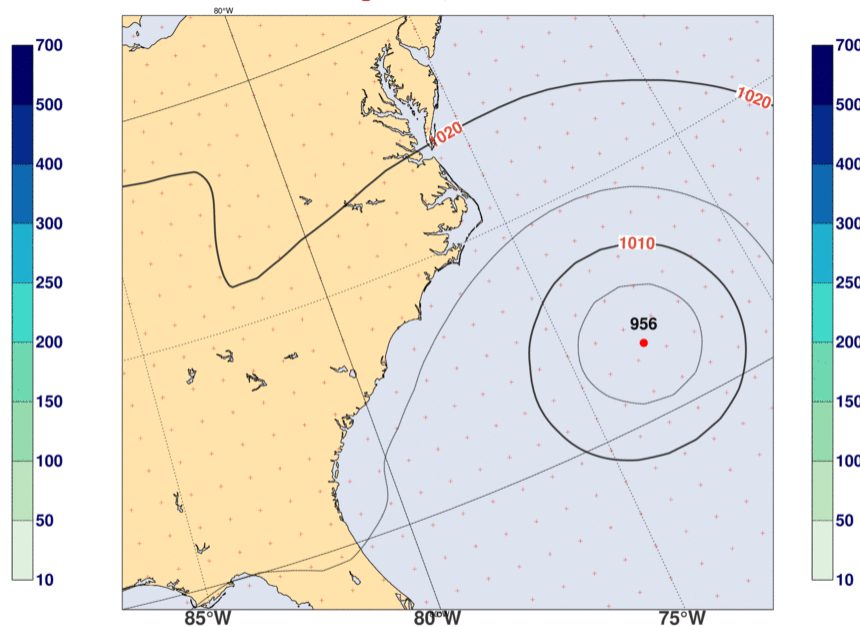


ERA5



79 km, 3-hourly data

Florence Thu 13 Sep 2018, 01 UTC for ERA-Interim



ERA-Interim



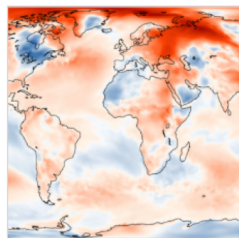


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Reanalysis data and derived products

The screenshot shows the Copernicus search interface. At the top, there are logos for the European Union, Copernicus, and IMPL. Below the logos is a navigation bar with links for Home, Search, Datasets, Applications, and Toolbox. The main heading is "Search results". A search bar contains the text "Search dataset" and a magnifying glass icon. To the right of the search bar are filters for "All" and "Dataset". Below the search bar, the results are sorted by "Relevancy". The first result is titled "Climate projections" with 5 items. The second result is "Reanalysis" with 5 items, which is highlighted with a red box. Below this are "Satellite observations" (12), "Seasonal forecasts" (6), and "Sectoral climate indices" (2). The "Variable domain" section includes "Land (hydrology)" (1). The "Spatial coverage" section includes "Europe" (1) and "Global" (3). The "Temporal coverage" section includes "Past" (5).

Monthly summaries



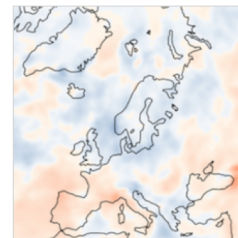
Surface air temperature

This series of monthly maps and charts, generated from ERA-interim data, covers global and European surface air temperatures.



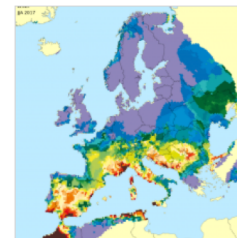
Sea ice

We produce sea-ice maps every month. Based on ERA-interim reanalysis data, these provide near real-time monitoring of the polar ice caps.



Hydrological variables

This series of monthly maps and charts, based on ERA-interim data, covers several variables: precipitation, humidity, and soil moisture for Europe and the extra-tropical regions.



Surface in-situ monitoring for Europe

Monthly and yearly State-of-the-European-climate reports provided by C3S partners

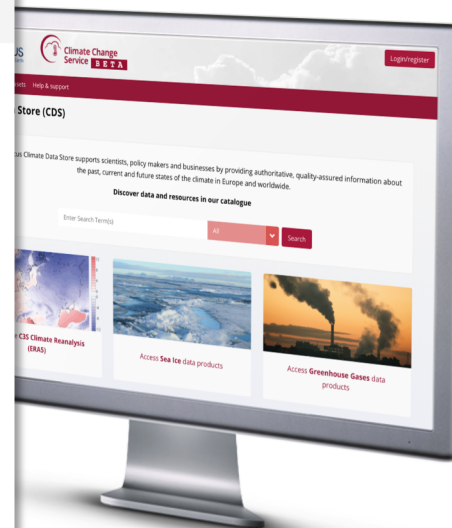


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Seasonal forecasts and derived products

The screenshot displays the website's search results page. At the top, there are logos for the European Union, Copernicus, and ECMWF, along with the text 'IMPLEMENTED BY' and 'Climate Change Service'. A 'Login/register' button and a 'BETA' badge are also visible. The navigation menu includes 'Home', 'Search', 'Datasets', 'Applications', 'Toolbox', and 'Help & support'. The main content area is titled 'Search results' and shows a search bar with 'Seasonal forecasts' entered. The results are sorted by 'Relevancy' and show 6 results. The first result is 'Seasonal forecast monthly statistics on pressure levels from 2017 to present'. The left sidebar contains filters for 'Product type', 'Spatial coverage', and 'Temporal coverage'. The 'Product type' filter is expanded, showing 'Climate projections (5)', 'Reanalysis (4)', 'Satellite observations (12)', 'Seasonal forecasts (6)', and 'Sectoral climate indices (2)'. The 'Spatial coverage' filter shows 'Global (6)'. The 'Temporal coverage' filter shows 'Future (6)' and 'Past (6)'. The search results list includes:

- Seasonal forecast monthly statistics on pressure levels from 2017 to present**
This entry covers pressure-level data aggregated on a monthly time resolution. Seasonal forecasts provide a long-range outlook of changes in the Earth system over periods of a few weeks or months, as...
- Seasonal forecast monthly statistics on single levels from 2017 to present**
This entry covers single-level data aggregated on a monthly time resolution. Seasonal forecasts provide a long-range outlook of changes in the Earth system over periods of a few weeks or months, as a...
- Seasonal forecast anomalies on pressure levels from 2017 to present**
This entry covers pressure-level data post-processed for bias adjustment on a monthly time resolution. Seasonal forecasts provide a long-range outlook of changes in the Earth system over periods of a...
- Seasonal forecast anomalies on single levels from 2017 to present**
This entry covers single-level data post-processed for bias adjustment on a monthly time resolution. Seasonal forecasts provide a long-range outlook of changes in the Earth system over periods of a f...
- Seasonal forecast daily data on pressure levels from 2017 to present**
This entry covers pressure-level data at the original time resolution (once every 12 hours). Seasonal forecasts provide a long-range outlook of changes in the Earth system over periods of a few weeks...
- Seasonal forecast daily data on single levels from 2017 to present**
This entry covers single-level data at the original time resolution (once a day, or once every 6 hours, depending on the variable). Seasonal forecasts provide a long-range outlook of changes in the E...



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Europe's eyes on Earth

ECMWF



Climate Change

Graphical products

C3S | C3S_seasonal

https://climate.copernicus.eu/charts/c3s_seasonal/

C3S seasonal charts

42 matching items
No filters applied

Filters
Filter

Parameters

- MSLP (6)
- SST (12)
- T2m (6)
- T850 (6)
- geopotential height 500hPa (6)
- precipitation (6)

Plot type

- Maps (36)
- Time series (6)

Centres

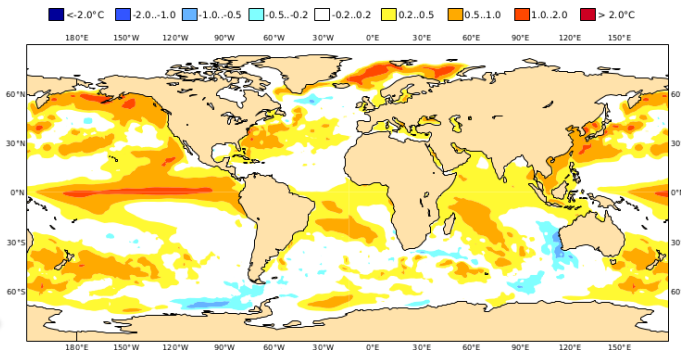
- C3S multi-system (7)
- CMCC (7)
- DWD (7)
- ECMWF (7)
- Met Office (7)
- Meteo-France (7)

Grid of 42 chart thumbnails including: C3S multi-system MSLP, C3S multi-system NINO plumes, C3S multi-system SST, C3S multi-system T2m, C3S multi-system T850, C3S multi-system geopotential height, C3S multi-system precipitation, CMCC MSLP, CMCC NINO plumes, CMCC SST, CMCC T2m, CMCC T850, CMCC geopotential height 500hPa, CMCC precipitation, DWD MSLP, DWD NINO plumes, DWD SST, DWD T2m, DWD T850, DWD geopotential height 500hPa, DWD precipitation, ECMWF MSLP, ECMWF NINO plumes, ECMWF SST, ECMWF T2m, ECMWF T850, ECMWF geopotential height, ECMWF precipitation, Met Office MSLP, Met Office NINO plumes, Met Office SST, Met Office T2m, Met Office T850, Meteo-France MSLP, Meteo-France NINO plumes, Meteo-France SST, Meteo-France T2m, Meteo-France T850, Meteo-France geopotential height, Meteo-France precipitation.

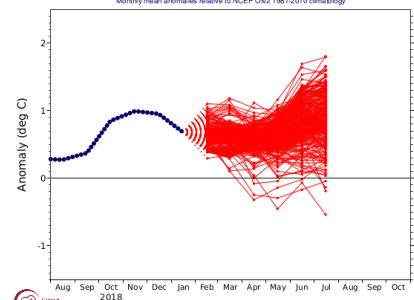
Feb 2019

C3S multi-system seasonal forecast
Mean forecast SST anomaly
Nominal forecast start: 01/02/19
Variance-standardized mean

ECMWF/Met Office/Météo-France/CMCC/DWD
MAM 2019



NINO3.4 SST anomaly plume
C3S multi-system forecast from 1 Feb 2019
ECMWF, Met Office, Météo-France, CMCC, DWD
Monthly mean anomalies relative to NCEP Oa2 1981-2010 climatology



https://climate.copernicus.eu/charts/c3s_seasonal/





Climate
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Climate projections and derived products

The screenshot shows the search results page for 'Climate projections'. The header includes logos for the European Union, Copernicus, ECMWF, and the Climate Change Service, along with a 'Login/register' button and a 'BETA' badge. A navigation menu contains 'Home', 'Search', 'Datasets', 'Applications', 'Toolbox', and 'Help & support'. The search bar contains 'Search dataset' and a magnifying glass icon. The results are filtered by 'All Datasets' and show 1-5 results for 'Climate projections'. The results are sorted by 'Relevancy' and include a sidebar with filters for Product type, Variable domain, Spatial coverage, and Temporal coverage. The main content area lists five datasets with their titles and brief descriptions.

Home Search Datasets Applications Toolbox Help & support

Search results

Search dataset

All Datasets

Sort by Relevancy

Title

Product type

- Climate projections (5)
- Reanalysis (4)
- Satellite observations (12)
- Seasonal forecasts (6)
- Sectoral climate indices (2)

Variable domain

- Atmosphere (surface) (5)
- Atmosphere (upper air) (4)

Spatial coverage

- Global (5)

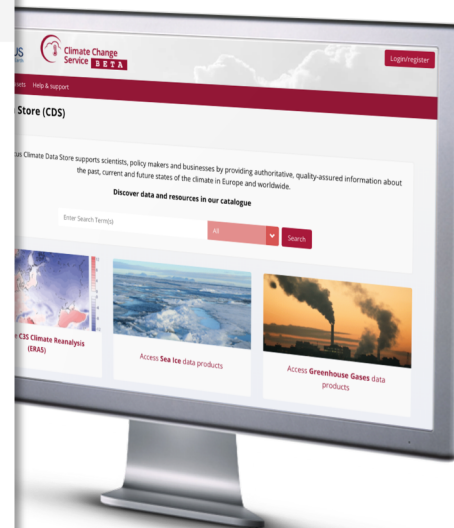
Temporal coverage

- Future (5)
- Past (5)
- Present (4)

Showing 1-5 of 5 results for Climate projections x

- Essential climate variables for water sector applications derived from CMIP5 projections**
This dataset contains 4 Essential Climate Variables (ECV) for the 18 bias adjusted Global Climate Models (GCM) from CMIP5: daily precipitation rate, and daily mean, maximum and minimum temperatures. ...
- CMIP5 monthly data on single levels**
This catalogue entry provides monthly climate projections on single levels from a large number of experiments, models, members and time periods computed in the framework of fifth phase of the Couple...
- CMIP5 daily data on single levels**
This catalogue entry provides daily climate projections on single levels from a large number of experiments, models, members and time periods computed in the framework of fifth phase of the Coupled ...
- CMIP5 monthly data on pressure levels**
This catalogue entry provides monthly climate projections on pressure levels from a large number of experiments, models, members and time periods computed in the framework of fifth phase of the Cou...
- CMIP5 daily data on pressure levels**
This catalogue entry provides daily climate projections on pressure levels from a large number models, members and time periods computed in the framework of fifth phase of the Coupled Model Intercomp...

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Climate
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Soon on the CDS: *In situ* climate observations

Observations are fundamental to everything we do. C3S is developing:

- C3S Data Rescue Service
- Global Land and Marine Observations Database
- Global Upper-air Observations Database



The aim is to locate, collect, merge, quality-check, and organise all meteorological *in situ* observations ever made... and vastly improve access and usability.

To be launched in stages during 2019.





Climate
Change

C3S Data Rescue Service

C3S Data Rescue Service portal

Key products and services



Interactive Map



Data Rescue
Projects



Land Surface
Observations



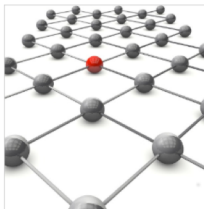
Upper Air
Observations
(Fixed platforms)



Upper Air
Observations
(Moving platforms)



Marine
Observations



Metadata
Exchange Tool



Forum

- Coordination and support for climate data rescue projects
- Registry and tools to locate related projects and data
- Synchronized with WMO I-DARE
- Tools for digitization, quality control, homogenization
- Facility for submitting digitized data to international repositories



Climate
Change

C3S Data Rescue Service

C3S Data Rescue Service portal

Key products and services



Interactive Map



Upper Air
Observations
(Moving platforms)



Marine
Observations

Metadata
Exchange Tool

Forum

- Coordination and support for climate data rescue projects

locate
data

MO I-DARE

quality
ion

digitized
repositories

