



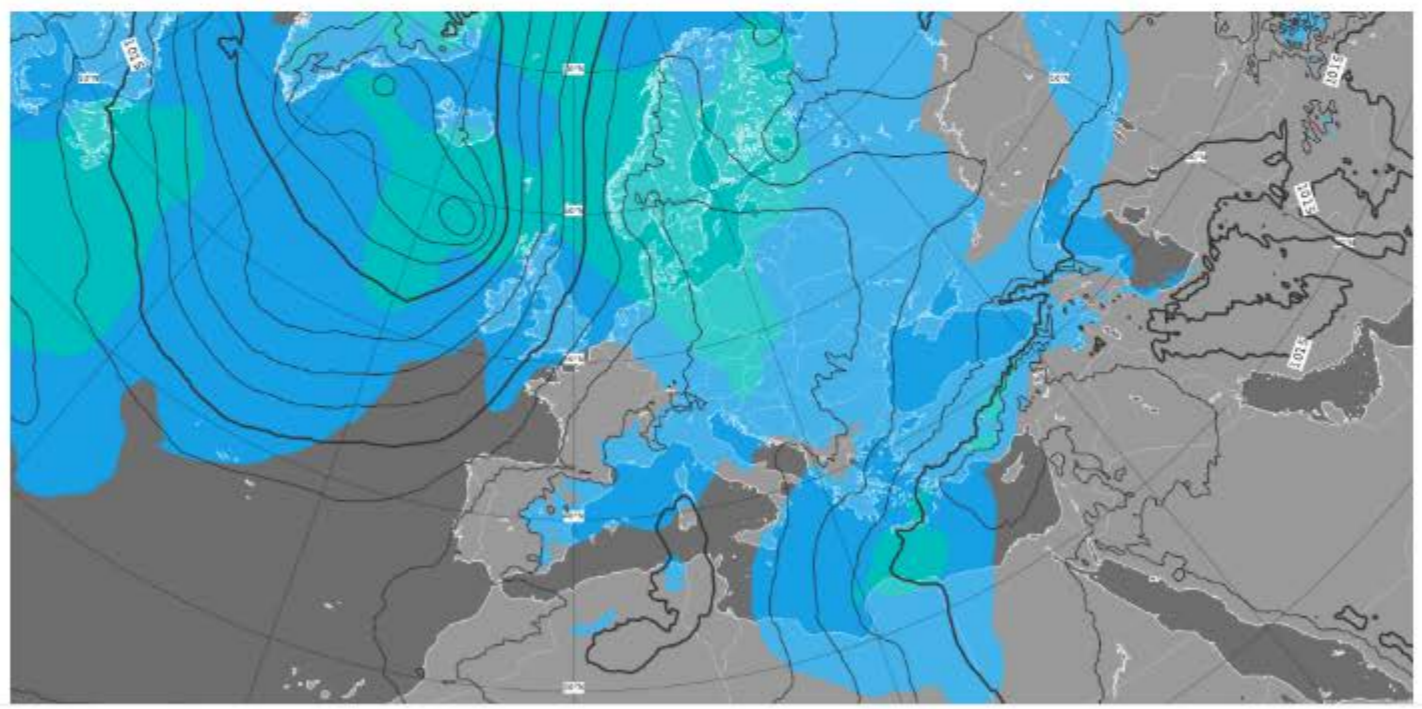
1- انتقل للموقع  
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Home About Forecasts Computing Research Learning Publications



2- اختار Forecasts

Advancing global NV... through international collaboration



High resolution mean sea level pressure and ensemble spread

Base Time: Fri 12 Feb 2021 00 UTC T+96 Valid time: Tue 16 Feb 2021 00 UTC

Ensemble forecasts explained

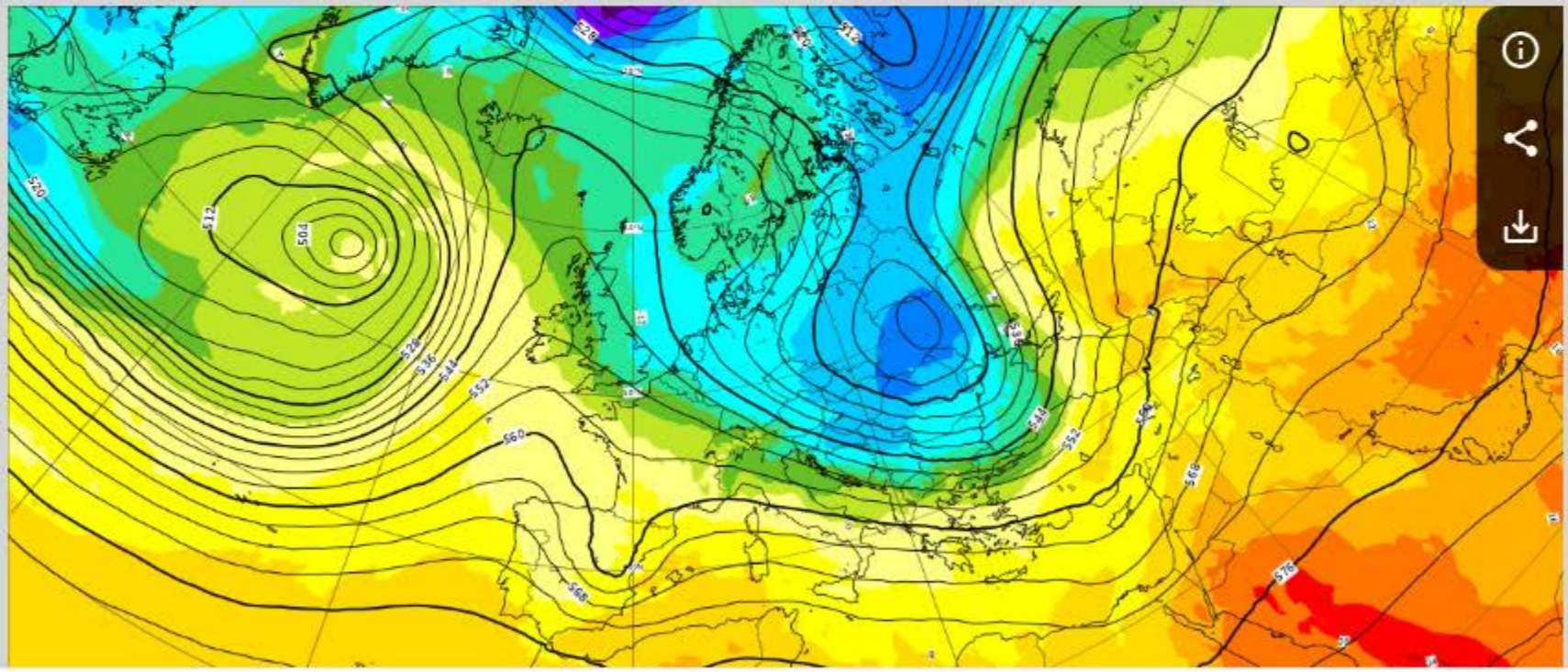
One 'ensemble forecast' consists of 51 separate forecasts made by the same computer model, all activated from the same starting time. The starting conditions for each member of the ensemble are slightly different, and physical parameter values used also differ slightly. The differences between these ensemble members tend to grow as the forecasts progress, that is as the forecast lead time increases.

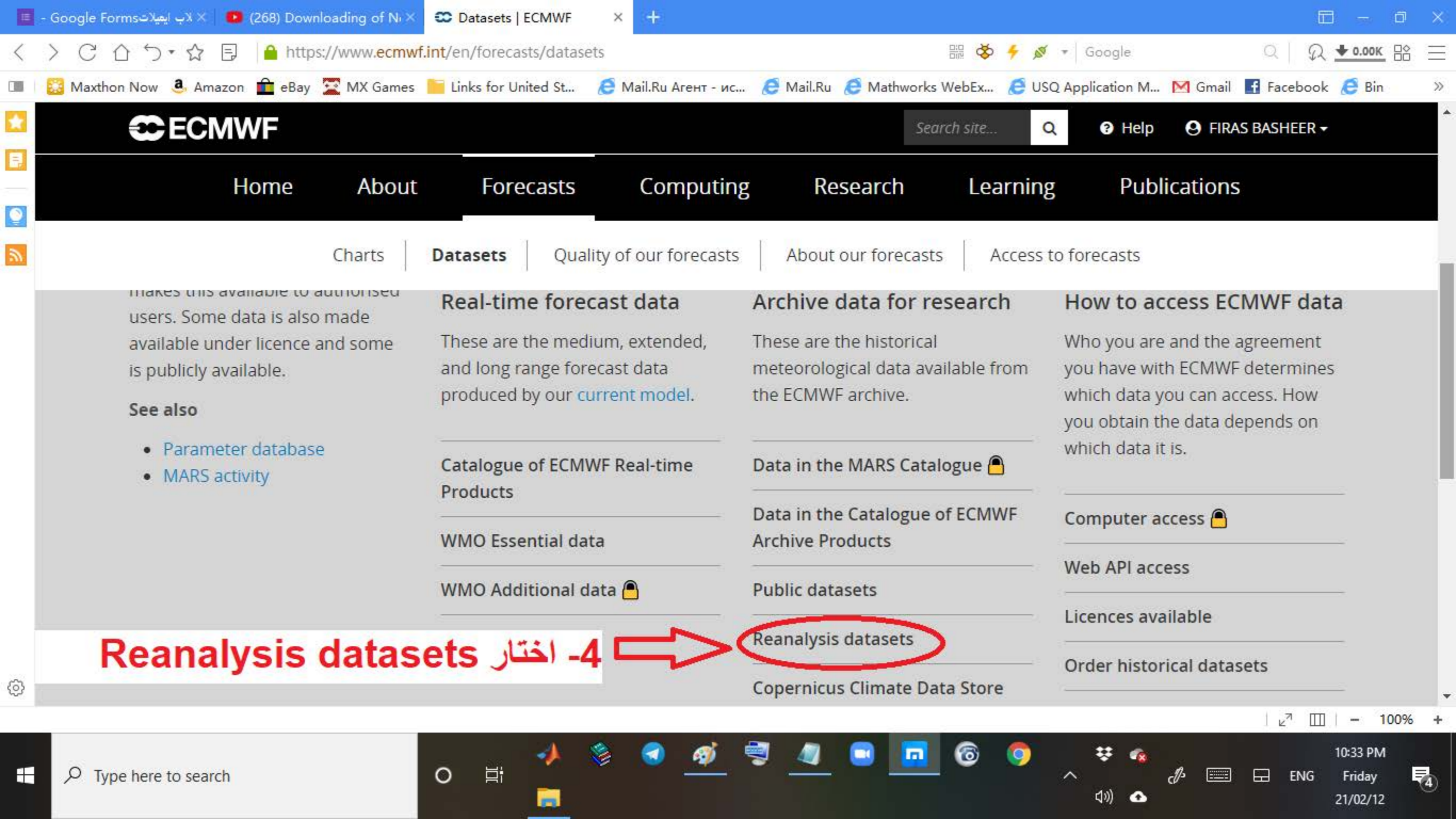
3- اختيار Datasets

### Forecast charts and data

We provide global forecasts, climate reanalyses and specific datasets, designed to meet different user requirements. These are available via the web, point-to-point dissemination, data servers and broadcasting.

ECMWF's operational forecasts aim to show how the weather is most likely to evolve. To do this, the





makes this available to authorised users. Some data is also made available under licence and some is publicly available.

See also

- [Parameter database](#)
- [MARS activity](#)

Real-time forecast data

These are the medium, extended, and long range forecast data produced by our [current model](#).

Catalogue of ECMWF Real-time Products

WMO Essential data

WMO Additional data

Archive data for research

These are the historical meteorological data available from the ECMWF archive.

Data in the MARS Catalogue

Data in the Catalogue of ECMWF Archive Products

Public datasets

Copernicus Climate Data Store

How to access ECMWF data

Who you are and the agreement you have with ECMWF determines which data you can access. How you obtain the data depends on which data it is.

Computer access

Web API access

Licences available

Order historical datasets

Reanalysis datasets -4- اختار

Reanalysis datasets



Dataset Name	ERA5	1979-present	✓	✓	✓	Get ERA5 from Climate Data
ERA-Interim/Land	ERA5	1979-present	✓	✓	✓	Get ERA5 from Climate Data
CERA-SAT						
CERA-20C						
ERA-20CM		1950-1978 preliminary	✓	✓	✓	Get ERA5 preliminary from Climate Data
ERA-20C						
Real-time datasets	ERA5-Land	1981-present			✓	Get ERA5-Land from the Climate Data Store
<b>ERA-Interim</b>	ERA-Interim	1979-August 2019	✓	✓	✓	Explore ERA-Interim

**ERA-Interim** -5 اختار



# ERA-Interim

**Download ERA-اختار -6**

Access to archive datasets

### Reanalysis datasets

- ERA5
- ERA-Interim**
- ERA-Interim/Land
- CERA-SAT
- CERA-20C

ERA-Interim is a global atmospheric reanalysis that is available from 1 January 1979 to 31 August 2019. It has been superseded by the [ERA5](#) reanalysis.

The data assimilation system used to produce ERA-Interim is based on a 2006 release of the IFS (Cy31r2). The system includes a 4-dimensional variational analysis (4D-Var) with a 12-hour analysis window. The spatial resolution of the data set is approximately 80 km (T255 spectral) on 60 levels in the vertical from the surface up to 0.1 hPa.

For a detailed documentation of the ERA-Interim Archive see [Berrisford et al. \(2011\)](#).

An open access journal article describing the ERA-Interim reanalysis is

**Download ERA-Interim data >**

Or use the [MARS client](#) or [Web API](#) (class=ei, expver=1)



# ERA Interim, Daily

7- ابدء بخطوات الفيديو باختيار البيانات المطلوب تحميلها

Please login before retrieving data from this dataserer.

ERA Interim is being phased out. Users are strongly advised to migrate to ERA5. The last date to be made available in ERA Interim will be 31 August 2019, which will be released at the end of October 2019.

Please note that the fields shown on this interface are a subset of the ERA Interim dataset. The complete dataset (including wave fields) is available via the batch access. The full list of fields can be found here.

## Type of level

- Model levels
- Potential temperature
- Potential vorticity
- Pressure levels
- **Surface**

## ERA Interim Fields

- **Daily**
- Invariant
- Synoptic Monthly Means
- Monthly Means of Daily Means
- Monthly Means of Daily

## Select a month

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1979	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1981	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1983	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1985	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1987	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



## Select time

00:00:00  06:00:00  12:00:00  18:00:00

Select All  or  Clear

## Select step

0  3  6  9  12

Select All  or  Clear

## Select parameter

- |  |   |
|--|---|
| <input type="checkbox"/> 2 metre dewpoint temperature                      | <input type="checkbox"/> 2 metre temperature  |
| <input type="checkbox"/> 10 metre U wind component                         | <input type="checkbox"/> 10 metre V wind component                                      |
| <input type="checkbox"/> 10 metre wind gust since previous post-processing | <input type="checkbox"/> Albedo   |
| <input type="checkbox"/> Boundary layer dissipation                        | <input type="checkbox"/> Boundary layer height  |
| <input type="checkbox"/> Charnock  | <input type="checkbox"/> Clear sky surface photosynthetically active radiation          |
| <input type="checkbox"/> Convective available potential energy             | <input type="checkbox"/> Convective precipitation                                       |
| <input type="checkbox"/> Convective snowfall                               | <input type="checkbox"/> Downward UV radiation at the surface                           |
| <input type="checkbox"/> Eastward gravity wave surface stress              | <input type="checkbox"/> Eastward turbulent surface stress                              |
| <input type="checkbox"/> Evaporation                                       | <input type="checkbox"/> Forecast albedo  |
| <input type="checkbox"/> Forecast logarithm of surface roughness for heat  | <input type="checkbox"/> Forecast surface roughness                                     |
| <input type="checkbox"/> Gravity wave dissipation                          | <input type="checkbox"/> High cloud cover   |
| <input type="checkbox"/> Ice temperature layer 1                           | <input type="checkbox"/> Ice temperature layer 2  |
| <input type="checkbox"/> Ice temperature layer 3                           | <input type="checkbox"/> Ice temperature layer 4  |
| <input type="checkbox"/> Instantaneous eastward turbulent surface stress   | <input type="checkbox"/> Instantaneous moisture flux                                    |
| <input type="checkbox"/> Instantaneous northward turbulent surface stress  | <input type="checkbox"/> Instantaneous surface sensible heat flux                       |
| <input type="checkbox"/> Large-scale precipitation                         | <input type="checkbox"/> Large-scale precipitation fraction                             |
| <input type="checkbox"/> Large-scale snowfall                              | <input type="checkbox"/> Logarithm of surface roughness length for heat                 |
| <input type="checkbox"/> Low cloud cover                                   | <input type="checkbox"/> Maximum temperature at 2 metres since previous post-processing |
| <input checked="" type="checkbox"/> Mean sea level pressure                | <input type="checkbox"/> Mean wave direction  |
| <input type="checkbox"/> Mean wave period                                  | <input type="checkbox"/> Medium cloud cover   |



Area: Custom [\(change\)](#)

- Default (as archived)
- South Asia
- Inter-tropical band
- Northern Hemisphere
- Southern Hemisphere
- Tropical Pacific
- Europe
- North America
- Indonesia
- Custom: N  W  S  E

**BAGHDAD**  
**Coordinates**

Grid: 0.125x0.125 [\(change\)](#)

- 0.125x0.125
- 0.25x0.25
- 0.4x0.4
- 0.5x0.5
- 0.75x0.75
- 1x1
- 1.125x1.125
- 1.5x1.5
- 2x2
- 2.5x2.5
- 3x3

NetCDF Options [\(help\)](#): None selected [\(change\)](#)

[Retrieve now!](#)

## Navigation

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## See also...

- Access Public Datasets
- General FAQ
- Web-API FAQ
- Accessing forecasts
- GRIB decoder

[< Return to selection](#)netcdf 

## Final request

Stream: Atmospheric model

---

Area: 28.0°N 38.5°E 38.0°N 48.5°E

---

Dataset: interim\_daily

---

Version: 1

---

Type of level: Surface

---

Date: 20090901 to 20090930

[See full request](#)The status of the request is: **active**

## Request output:

```

STREAM = OPER,
EXPVER = 0001,
REPRES = SH,
LEVTYPE = SFC,
PARAM = 151.128,
TIME = 0000/1200,
STEP = 3/6/9/12,
DOMAIN = G,
RESOL = AUTO,
AREA = 38/38/28/49,
GRID = 1.0/1.0,
PADDING = 0,
EXPECT = ANY,
DATE =
20090901/20090902/20090903/20090904/20090905/20090906/20090907/20090908/20090909/20090910/20090911/20090912/20090913/20090914/20090915/2009
0916/20090917/20090918/20090919/20090920/20090921/20090922/20090923/20090924/20090925/20090926/20090927/20090928/20090929/20090930
mars - INFO - 20171209.095757 - Requesting any number of fields (request describes 240)
mars - INFO - 20171209.095757 - Calling mars on 'marsr', callback on 40156
mars - INFO - 20171209.095758 - Server task is 986 [marsr]
mars - INFO - 20171209.095758 - Request cost: 240 fields, 40.8087 Mbytes online, nodes: mvr02 [marsr]

```

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## netcdf

## Final request

Stream: Atmospheric model  
Area: 28.0°N 38.5°E 38.0°N 48.5°E  
Dataset: interim\_daily  
Version: 1  
Type of level: Surface  
Date: 20090901 to 20090930

[See full request](#)The status of the request is: **complete**[Download \(0.1MB\)](#)**انقر Download لتحميل الملف**

Request output:

```
mars - INFO - 20171209.095800 - 240 fields have been interpolated
mars - INFO - 20171209.095800 - Request time: wall: 2 sec
mars - INFO - 20171209.095800 - Read from network: 40.81 Mbyte(s) in 1 sec [32.02 Mbyte/sec]
mars - INFO - 20171209.095800 - Visiting marsder: wall: 2 sec
mars - INFO - 20171209.095800 - Writing to target file: 87.19 Kbyte(s) in < 1 sec [104.99 Mbyte/sec]
mars - INFO - 20171209.095800 - Memory used: 33.89 Mbyte(s)
mars - INFO - 20171209.095800 - No errors reported
Process '['nice', 'mars', '/tmp/tmp_marssHYfLo.req']' finished
Calling '['nice', 'grib_to_netcdf', '/data/data03/scratch/_mars-atls04-95e2cf679cd58ee9b4db4dd119a05a8d-ne20Ym.grib', '-o',
'/data/data05/scratch/_grib2netcdf-atls13-70e05f9f8ba4e9d19932f1c45a7be8d8-315UyA.nc', '-utime']'
grib_to_netcdf: Version 2.5.0
grib_to_netcdf: Processing input file '/data/data03/scratch/_mars-atls04-95e2cf679cd58ee9b4db4dd119a05a8d-ne20Ym.grib'.
grib_to_netcdf: Found 360 GRIB fields in 1 file.
grib_to_netcdf: Ignoring key(s): method, type, stream, refdate, hdate
grib_to_netcdf: Creating netCDF file '/data/data05/scratch/_grib2netcdf-atls13-70e05f9f8ba4e9d19932f1c45a7be8d8-315UyA.nc'
grib_to_netcdf: NetCDF library version: 4.3.0 of Apr 10 2017 16:04:29 $
grib_to_netcdf: Creating large (64 bit) file format.
grib_to_netcdf: Defining variable 'msl'.
grib_to_netcdf: Done
```