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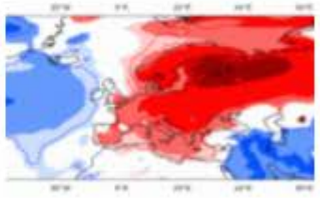
Datasets

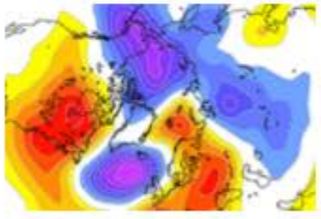
- Access to archive datasets
- Reanalysis datasets
- Real-time datasets
- WMO and ACMAD datasets

Forecasts, analyses, climate re-analyses, reforecasts and multi-model data are available from our archive (MARS) or via dedicated data servers or via point-to-point dissemination.



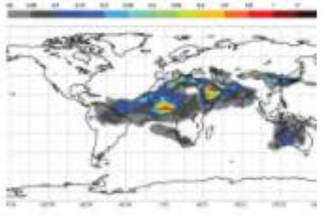
Operational

Operational datasets are the forecasts output by our current model.



Reanalysis datasets

ECMWF uses its forecast models and data assimilation



Atmospheric composition

Datasets for atmospheric composition from the

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Public data

- Public datasets web interface
- WMO Essential ftp service
- Access ECMWF Public Datasets service of the Web API

Licensed data

- MARS Catalogue web interface
- Access MARS service of the Web API
- ECMWF computing facilities

Public Datasets

Access to these datasets is provided free of charge. Terms and conditions may apply, please check with each individual dataset.

Global Reanalyses

- CERA-20C (Jan 1901 - Dec 2010)
- ERA-20C (Jan 1900 - Dec 2010)
- ERA-Interim (Jan 1979 - Aug 2019) (Production stopped on 31st August 2019)
- ERA-Interim/LAND (Jan 1979 - Dec 2010)
- ERA-20CM (Jan 1900 - Dec 2010) Final
- ERA-40 (Sep 1957 - Aug 2002)
- CERA-SAT (Jan 2008 - Dec 2016)

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Regional Reanalysis

- UERRA

https://apps.ecmwf.int/datasets/data/interim-full-daily/

ERA Interim, Daily

Please **login** before retrieving data from this dataserver.

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

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
1979	○	○	○	○	○	○	○	○	○	○	○	○	1980	○	○	○	○	○	○	○	○	○	○
1981	○	○	○	○	○	○	○	○	○	○	○	○	1982	○	○	○	○	○	○	○	○	○	○
1983	○	○	○	○	○	○	○	○	○	○	○	○	1984	○	○	○	○	○	○	○	○	○	○

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
Forecast Accumulations

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See also...

ERA Interim, Daily

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.

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	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	1980	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
1981	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	1982	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
1983	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	1984	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
1985	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	1986	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
1987	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	1988	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
1989	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	1990	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
1991	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	1992	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
1993	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	1994	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
1995	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	1996	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
1997	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	1998	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
1999	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	2000	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
2001	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	2002	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
2003	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	2004	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
2005	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	2006	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
2007	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	2008	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
2009	☐	☐	☐	☐	☐	☐	☐	☐	☑	☐	☐	☐	2010	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
2011	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	2012	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
2013	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	2014	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

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 Forecast Accumulations

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ERA Interim, Monthly Means of Daily Means

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.

Select a year

1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	
1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	
2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	
2012	2013	2014	2015	2016	☑	017					

Select parameter

- ☐ 2 metre dewpoint temperature
- ☐ 2 metre temperature
- ☐ 10 metre U wind component
- ☐ 10 metre V wind component
- ☐ 10 metre wind speed
- ☐ Albedo
- ☐ Boundary layer height
- ☐ Charnock
- ☐ Convective available potential energy
- ☐ Forecast albedo
- ☐ Forecast logarithm of surface roughness for heat
- ☐ Forecast surface roughness
- ☐ High cloud cover
- ☐ Ice temperature layer 1
- ☐ Ice temperature layer 2
- ☐ Ice temperature layer 3
- ☐ Ice temperature layer 4
- ☐ Instantaneous eastward turbulent surface stress
- ☐ Instantaneous moisture flux
- ☐ Instantaneous northward turbulent surface stress
- ☐ Instantaneous surface sensible heat flux
- ☐ Logarithm of surface roughness length for heat
- ☐ Low cloud cover
- ☐ Mean sea level pressure
- ☐ Medium cloud cover
- ☐ Sea surface temperature
- ☐ Sea-ice cover
- ☐ Skin reservoir content

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

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

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

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

Parameter:	Mean sea level pressure
Class:	ERA Interim
Step:	0
Type:	Analysis
Time:	00:00:00, 06:00:00, 12:00:00, 18:00:00
Step:	3 to 12 by 3
Type:	Forecast
Time:	00:00:00, 12:00:00

The request will be done using the following attributes:

Area: Custom (change)

- ○ Default (as archived)
- ○ South Asia
- ○ Inter-tropical band
- ○ Northern Hemisphere
- ○ Southern Hemisphere
- ○ Tropical Pacific
- ○ Europe
- ○ North America
- ○ Indonesia
- ◉ Custom: N 28 W 38.5 S 38 E 48.5 **IRAQ Coordinates**

Grid: 0.125x0.125 (change)

NetCDF Options (help): None selected (change)

Retrieve now

Area: Custom (change)

- ○ Default (as archived)
- ○ South Asia
- ○ Inter-tropical band
- ○ Northern Hemisphere
- ○ Southern Hemisphere
- ○ Tropical Pacific
- ○ Europe
- ○ North America
- ○ Indonesia
- ◉ Custom: N 28 W 38.5 S 38 E 48.5

Grid: 1x1 (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

Area: Custom (change)

- Default (as archived)
- South Asia
- Inter-tropical band
- Northern Hemisphere
- Southern Hemisphere
- Tropical Pacific
- Europe
- North America
- Indonesia
- Custom: N 33.375 W 44.375 S 33.375 E 44.375

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

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< 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 'marser', callback on 40156
mars - INFO   - 20171209.095758 - Server task is 986 [marser]
mars - INFO   - 20171209.095758 - Request cost: 240 fields, 40.8087 Mbytes online, nodes: mvr02 [marser]
```

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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)

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 marser: 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-neZOYm.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-neZOYm.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
```