



INFORMATION ON DATASET

Content of dataset: gridded numerical weather model forecast modified by the forecaster

Filenames belonging to the dataset:

FOCUS_<variable>_<YYYYMMDD>_0000+<TTTtt>.nc.zip, where

<variable>: meteorological variable,

<YYYYMMDD>: date of the forecast run,

<TTTtt>: forecast lead time in hour (TTT) and minute (tt)

ATTRIBUTES OF THE DATASET

Spatial extent: NW corner of the domain: N49.5 E14.3; SW corner of the domain: N44.9 E24.2

Time range: 0 – 168h

Spatial resolution: 0,1° x 0,1°

Temporal resolution: 0 – 36h: 1 hour; +24 – 72h: 3 hours; +72 – 168h: 6 hours

Projection: latlon grid

Data format(s): netcdf compressed into zip

Parameter(s):

Parameter	Description	Unit
OROG	altitude (over sea level)	m
LSM	surface type: land or sea	-
RHU2	relative humidity	%
T2	temperature at 2m height	C degree
Tmin6h	minimum temperature of the previous 6 hours	C degree
TMin2	minimum temperature of the previous 12 hours	C degree
Tmax6h	maximum temperature of the previous 6 hours	C degree
TMax2	maximum temperature of the previous 12 hours	C degree
RadGlobal	accumulated surface short-wave irradiation (accumulation of the previous 1 hour)	kJ/m ²
WDir10	wind direction at 10 m height	degree
WDir6h	mean wind direction of the previous 6 hours	degree
WDir12h	mean wind direction of the previous 12 hours	degree
WDir24h	mean wind direction of the previous 24 hours	degree
WSpeed10	wind speed at 10 m height	m/s
WSpeed6h	mean wind speed of the previous 6 hours	m/s
WSpeed12h	mean wind speed of the previous 12 hours	m/s
WSpeed24h	mean wind speed of the previous 24 hours	m/s



WSpeedMin24h	minimum wind speed of the previous 24 hours	m/s
WSpeedMax24h	maximum wind speed of the previous 24 hours	m/s
WGust	wind gust at 10 m height	m/s
WGust6h	maximum wind gust of the previous 6 hours	m/s
WGust12h	maximum wind gust of the previous 12 hours	m/s
WGust24h	maximum wind gust of the previous 24 hours	m/s
WGustMin24h	minimum wind gust of the previous 24 hours	m/s
Pres	mean sea level pressure	hPa
CL	total cloudiness	%
CL6h	mean cloudiness of the previous 6 hours	%
CL12h	mean cloudiness of the previous 12 hours	%
CL24h	mean cloudiness of the previous 24 hours	%
Prec	precipitation amount of the previous 1 hour	mm
Prec6h	precipitation amount of the previous 6 hours	mm
Prec12h	precipitation amount of the previous 12 hours	mm
Prec24h	precipitation amount of the previous 24 hours	mm
PrecProb	probability of precipitation existence in a 6-hour period	%
PrecProb5	probability of 6-hour precipitation amount exceeding 5 mm treshold	%
PrecProb20	probability of 6-hour precipitation amount exceeding 20 mm treshold	%
GFE_CsapVE	probability of precipitation type 'rain'	%
GFE_CsapVH	probability of precipitation type 'snow'	%
GFE_CsapVHe	probability of precipitation type 'sleet'	%
GFE_CsapVO	probability of precipitation type 'freezing rain'	%
GFE_CsapVF	probability of precipitation type 'ice pellets'	%
snowdrift	snowdrift	-
newCloudyWT	cloudiness weather type of the previous 1 hour	-
newCloudyWT6h	cloudiness weather type of the previous 6 hours	-
newCloudyWT12h	cloudiness weather type of the previous 12 hours	-
newCloudyWT24h	cloudiness weather type of the previous 24 hours	-
newPtypeWT	precipitation type of the previous 1 hour	-
newPtypeWT6h	precipitation type of the previous 6 hours	-
newPtypeWT12h	precipitation type of the previous 12 hours	-
newPtypeWT24h	precipitation type of the previous 24 hours	-
weather	weather type of the previous 1 hour	-
weather6h	weather type of the previous 6 hours	-
weather12h	weather type of the previous 12 hours	-
weather24h	weather type of the previous 24 hours	-
weather_types*	weather types*	-
precipitation_types*	precipitation types *	-
cover_types*	cloud cover types *	-



Codes and meanings of parameters signed with * are as follows:

weather_types	
Code	Representation
1	fair
2	sunny
3	partly cloudy
4	broken clouds
5	overcast
6	cirrostratus / wane- clouds
7	foggy
9	fair, misty
10	partly cloudy, misty
11	overcast, misty
12	broken cirrostratus clouds
101	drizzle
102	rain
202	heavy rain
103	shower
203	heavy shower
104	thunderstorm with rain
304	thunderstorm with shower
105	freezing drizzle
106	freezing rain
107	light snow / spit
108	snow
208	heavy snow
109	snowshower
209	heavy snowshower
110	sleet
310	sleet shower
112	thundersnow

precipitation_types	
Code	Representation
0	no precipitation
1	drizzle
2	rain





3	shower
4	thunderstorm
5	freezing drizzle
6	freezing rain
7	light snow / spit
8	snow
9	snowshower
10	sleet
11	thunderstorm with hail
12	thundersnow

cover_types	
Code	Representation
1	fair
2	sunny
3	partly cloudy
4	broken clouds
5	overcast
6	cirrostratus / wane- clouds
7	fog
8	freezing fog
9	fair, misty
10	partly cloudy, misty
11	overcast, misty

METHODOLOGY

ECMWF model data revised by experienced forecasters

Uncertainty of methodology:

main source is model error, combined with inaccuracy appears during grid edit

VALIDATION RESULTS AND ESTIMATED UNCERTAINTY

Verification is performed monthly, quarterly, half-yearly and annually for basic parameters. Please ask for more information via personal contact.

SUGGESTIONS ON USAGE / CONSIDERATIONS



We recommend the software for short to medium range forecasts that incorporate numerical model outputs and experience of forecasters.

FURTHER INFORMATION

<https://www.met.hu/idojaras/elorejelzes>

CONTACT POINT

Questions and remarks concerning the data and information in the Meteorological Database are welcomed to be send to odp@met.hu.

