meteoblue® weather 🌣 close to you

MultiModel for Antwerp



15:18 | 2 km/h

Flanders, Belgium, 51.22°N 4.4°E, 2m asl

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Antwerp 51.22°N / 4.40°E (2m asl)

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Weather models comparison for Antwerp

- Every model is assigned one colour that is used in all diagrams. The legend next to the diagram has a list with the model names and the corresponding colours.
- The first diagram shows the predicted temperatures for each model. The time from sunrise to sunset is indicated in light yellow. The dashed line represents the average of all models.
- The second diagram shows precipitation amounts: Blue bars indicate precipitation in mm accumulated over one hour. The bars get darker when more models predict precipitation.
- Weather icons are used to display the predicted weather conditions in the third diagram. The background is light blue for clear sky, light grey for light clouds and dark grov for stre



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Forecast limitations

- **Thunderstorms**: The exact placement and timing of thunderstorms are almost impossible to predict and the associated amount of precipitation or hail can vary significantly.
- **Stratus clouds**: Fog and low clouds are often invisible to most models and to satellites, and as such models may agree despite uncertainty. As a result, models may overestimate sunny conditions in areas prone to fog.
- **Topography**: Complex mountain terrain is very challenging for weather predictions. Low clouds and precipitation can rapidly develop there without being detected, and will then not be sufficiently considered in the weather model.

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Weather models

Weather models simulate physical processes. A weather model divides the world or a region into small "gridcells". Each cell is about 4km to 40km wide and 100m to 2km high. Our models contain 60 atmospheric layers and reach deep into the stratosphere at 10-25 hPa (60km altitude). The weather is simulated by solving complex mathematical equations between all grid cells every few seconds and parameters like temperature, wind speed or clouds are stored for every hour.

meteoblue operates a large number of weather models and integrates open data from various sources. All meteoblue models are computed twice a day on a dedicated High Performance Cluster.

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NMM4	Central Europe	4 km km	72 h	06:39 CET	meteoblue
NMM12	Europe	12 km km	180 h	07:48 CET	meteoblue
NMM18	South America	18 km km	180 h	09:50 CET	meteoblue
NMM18	South Africa	18 km km	180 h	08:17 CET	meteoblue
NMM18	Southeast Asia	18 km km	180 h	08:46 CET	meteoblue

Model	Region	Resolutio	n	Last update	Source
Third-party d	lomains: As seen	on most oth	er websites		
GFS22	Global	22 km	180 h (@ 3 h)	05:31 CET	NOAA NCEP
GFS40	Global	40 km	180 h (@ 3 h)	05:44 CET	NOAA NCEP
GFSENS05	Global	40 km	384 h (@ 3 h)	11:08 CET	NOAA NCEP
NAM3	North America	3 km	60 h	04:28 CET	NOAA NCEP



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Worldwide coverage

meteoblue weather models cover most populated areas at high resolution (3-10km) and world wide at moderate resolution (30km). The map on the side displays NMM models as red and NEMS models as black boxes. For a single forecast, multiple weather models, statistical analysis, measurements, radar and satellite telemetry are considered and combined to generate the most probable weather forecast for any given location on Earth.



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