

# Weather-API //

## Weather data for diverse applications

Fast acquisition and computation of data is the key element for many business processes, no matter whether we are dealing with data from weather stations and forecasting, or even satellite and radar images. The customized Meteomatics Weather APIs supports you in your weather-based processes with a fast and convenient way to access our extensive weather database. Corresponding connectors support the integration of weather data into your other process chains.

### Technical Details

- Response formats: CSV, XML, JSON, PNG, HTML-Snippets, NetCDF, GrADS
- WMS and WFS Interface
- depending on the package between 1.000 and 1.000.000 accesses per day
- Response time on average 20 – 30ms
- Optional deployment of a dedicated server
- HTTPS supported – HTTP-Basic-Authentification

### Weather-API

- Global and regional weather model data, koordinatengetreu und vierdimensional
- Models from 1979 and up to 46 days ahead
- Seasonal forecasts up to 7 months in advance
- Wind- and solar forecasts for around 1.000 production types
- Radar- and satellite data, including forecasts
- Industry-specific weather parameters and data

### Integration

- Excel, Python und R
- QGIS und ArcGIS
- ArcGis Pro
- Matlab
- Google Earth und Google Maps

### Benefits

- Optimized prediction – through leading-edge theory
- Downscaling up to 90m resolution
- Next to hourly parameters also 3h, 6h, 12h and 24h ranges available
- Thanks to radar forecasts over 280 updates daily