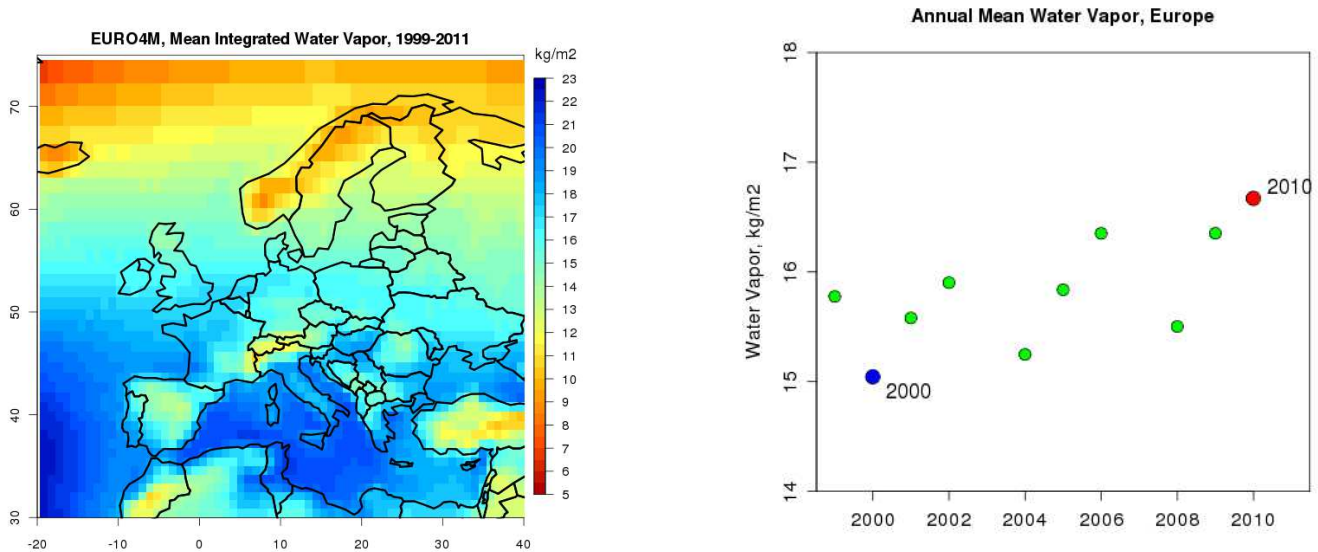


ATOVS-based gridded dataset of Integrated Water Vapour

The vertically integrated water vapour is derived from the ATOVS (Advanced TIROS Operational Vertical Sounders) satellite measurements. The EURO4M water vapour data set¹ is provided as monthly means covering the period 1999 to 2011 with a spatial resolution of 90 km.



EURO4M Water Vapour Data Set: (left) Temporally-averaged integrated water vapour (1999-2011), (right) Time Series of the spatially-averaged annual mean water vapour in Europe.

Infobox

<p>SPECIFICATIONS</p> <p>Output data sets Integrated water vapour</p> <p>Data Spatial resolution: 90 km Temporal resolution: monthly Regular lon/lat grid Format: NetCDF</p> <p>Availability Area: Europe Time: 1999 to 2011</p> <p>Related products Related data are available from the EUMETSAT Satellite Application Facility on Climate Monitoring (CMSAF, www.cmsaf.eu)</p>	<p>Validation The data has been validated against radiosonde measurements from the GUAN network. The bias has been found to be below ± 1 W/m².</p> <p>Full information on the data accuracy can be found at www.cmsaf.eu and http://dx.doi.org/10.5676/EUM_SAF_CM/WVT_ATOVS/V001</p>	<p>Institution Deutscher Wetterdienst, Department KU22 Frankfurter Straße 135 60697 Offenbach am Main Germany www.cmsaf.eu; www.dwd.de</p> <p>Data request Please send you request for data to: contact.euro4m@dwd.de or have a look at www.euro4m.eu</p>
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Example of usage:

The EURO4M water vapour dataset can be used to monitor and analyse climate anomalies, e.g., the impacts of El-Nino on atmospheric water vapour in Europe. The data can also be used for the monitoring of air masses and their annual dependences

¹ The data set is based on a global data set generated by the EUMETSAT Satellite Application Facility on Climate Monitoring (CM SAF).