MACC-III Users, data access, website

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On behalf of the MACC-III consortium

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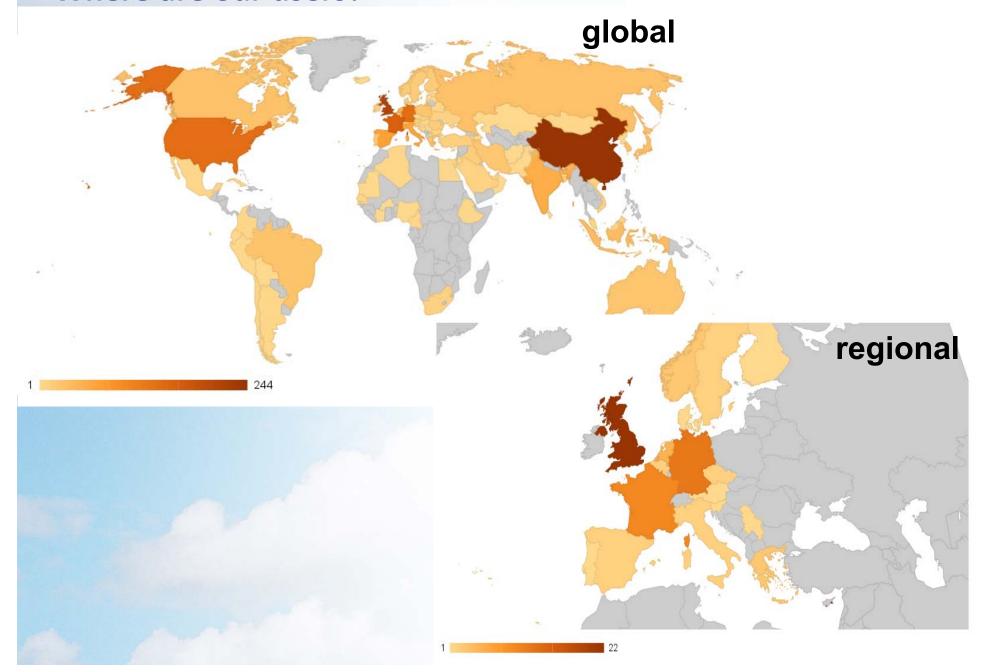


Who are our users? - Overall categories

- Interim users of ...
 - ... global and regional boundary condition forecasts
 - ... emission databases
 - ... NRT fire products
- Direct users of ...
 - ... atmospheric composition re-analysis
 - ... NRT atmospheric composition information
 - ... policy-relevant assessments
 - ... value-added GHG and aerosol forcing services
 - ... radiation products for solar energy
- Indirect users in...
 - ... downstream services

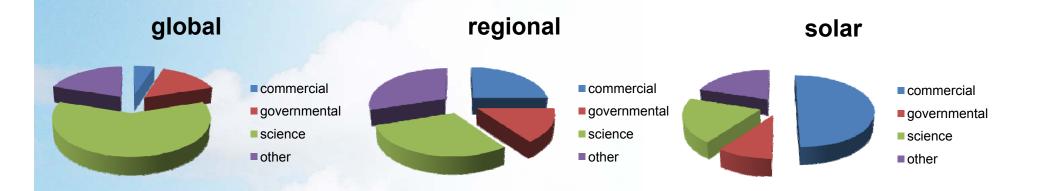


Where are our users?

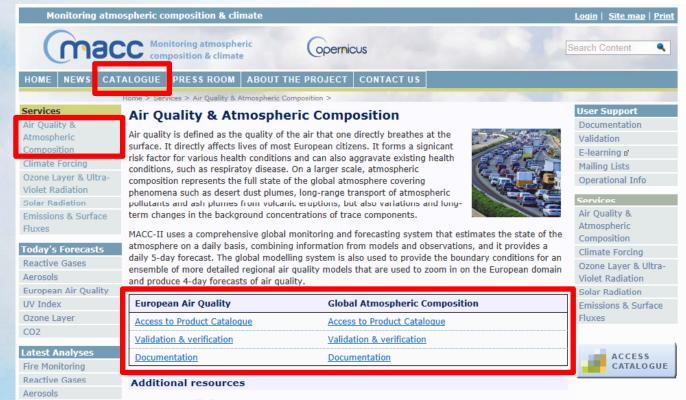


Who are our users? - Numbers, categories

Service	Number of Users/ Requests for data
Global NRT Analyses & Forecasts	~225 users
Regional NRT Analyses & Forecasts	155 users
Global Reanalysis	1600 users
GHG flux inversions	40 users
Solar Radiation	~1000 requests/year
Global ftp	~ 40 users
Emissions, fire	1773 users (716 institutes)
User queries tracking system	318 items until 8/1/2015



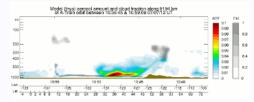
How do users get access to our data and information?



- Scientific field campaign support
- European Policy support

User cases

European Air Quality



Beginning of July 2012, Seattle and Vancouver were covered in a thick haze which exceeded regulations for particulate matter. MACC-II forecasts of aerosol and carbon monoxide were instrumental in showing that this pollution was caused by smoke coming from wild fires in Asia and not from local or even national sources, such as the wild fires in Colorado. MACC-II

therefore provided important information for local authorities to judge the situation.

MACC-III is a Coordination & Support Action (2014-2015) funded by the European Union under the Horizon 2020 Programme. It is coordinated by the European Centre for Medium-Range Weather Forecasts and operated by a 36-member consortium.



How do users get access to our data and information?

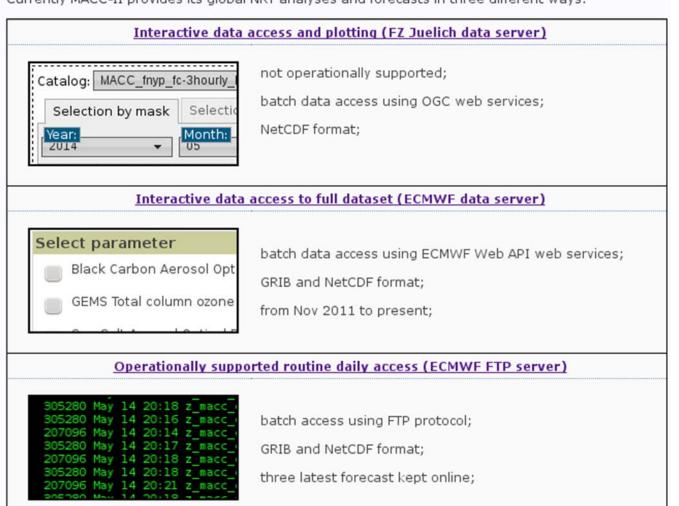


How do users get access to our data and information?

Global Near-Real-Time Data Access

Data Access Options

Currently MACC-II provides its global NRT analyses and forecasts in three different ways:



Interactive WCS/WMS

Interactive web api

Operationally supported ftp

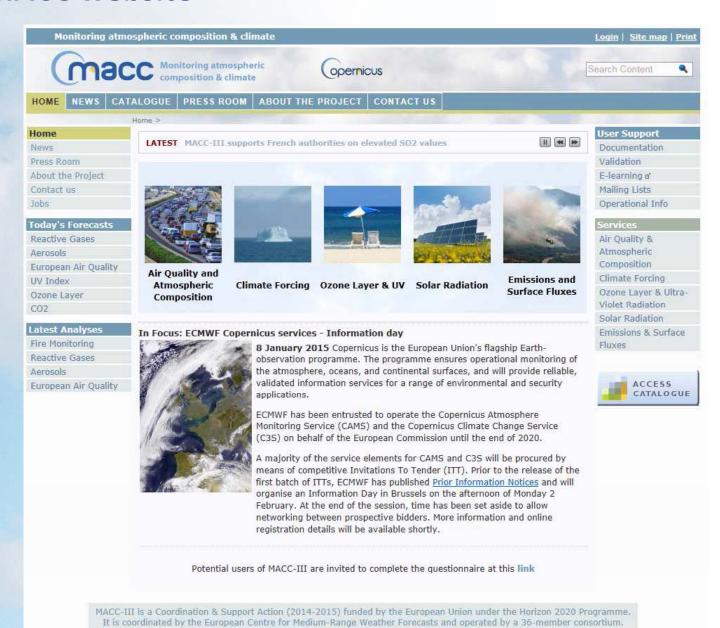
Online user registration

- For access to graphics
 - no registration at all
- For scientific data access + general data access
 - few simple entries to help identify / document users
 - wish to name planned application
 - name required MACC-III products
- For specific commitment
 - sign specific Service Level Agreement

MACC-III license terms -> open Copernicus data policy

- non-exclusive use for own purposes
- Use for research, education and commercial activities
- no reproduction, distribution, selling of MACC-III products
- intellectual property remain with the MACC-III Consortium
- acknowledgement to MACC-III required; copy of publications on request
- no warranty for accuracy or completeness of products or for software
- no liability for damages of using MACC-III products
- no liability for unavailability, delay or interruption of direct access
- User acknowledgement that such service breaks may happen
- MACC-III termination within 30 days upon any breach of obligations
- MACC-III right to change, add, remove MACC-III Products
- MACC-III right to change this license

The MACC website



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User support on the website

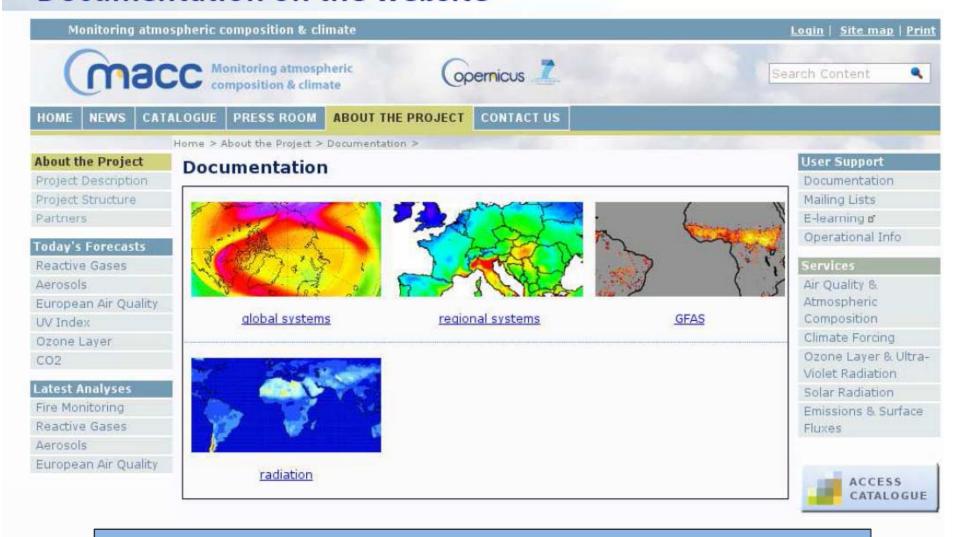


User interaction activities

- Direct contacts
- User questionnaire
- User queries tracking
- User requirement cycles
- User workshops
- User Advisory Board
- Summer schools

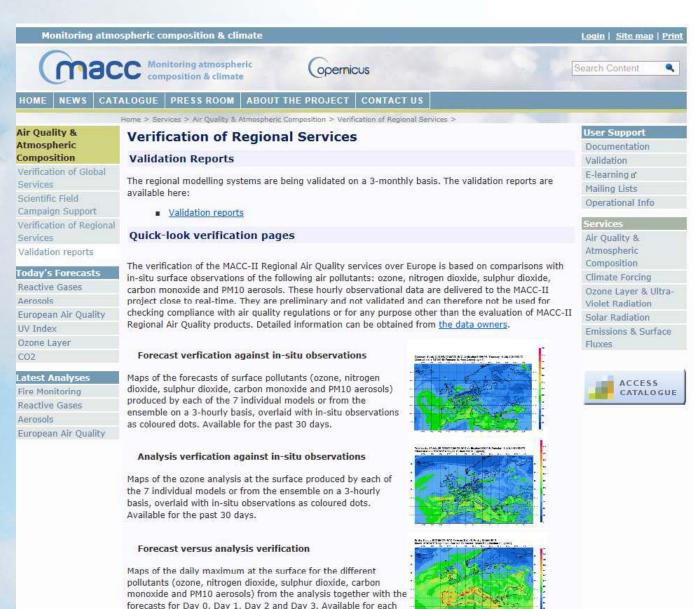


Documentation on the website



Technical documentation is available online and is continuously extended.

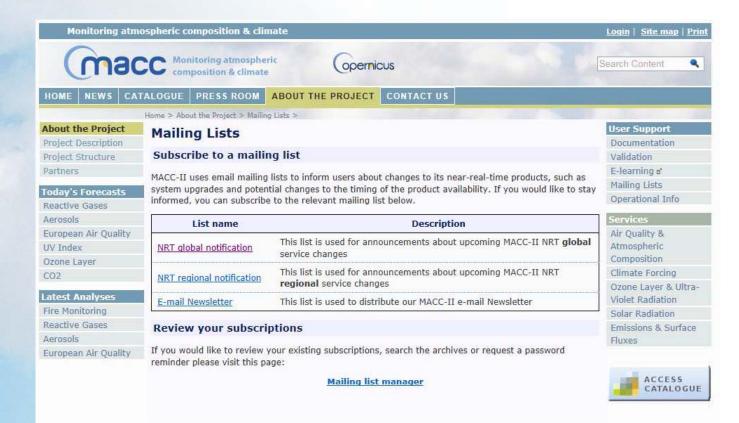
Validation on the website



of the 7 individual models and the ensemble for the past 30 days.

Mean forecast scores

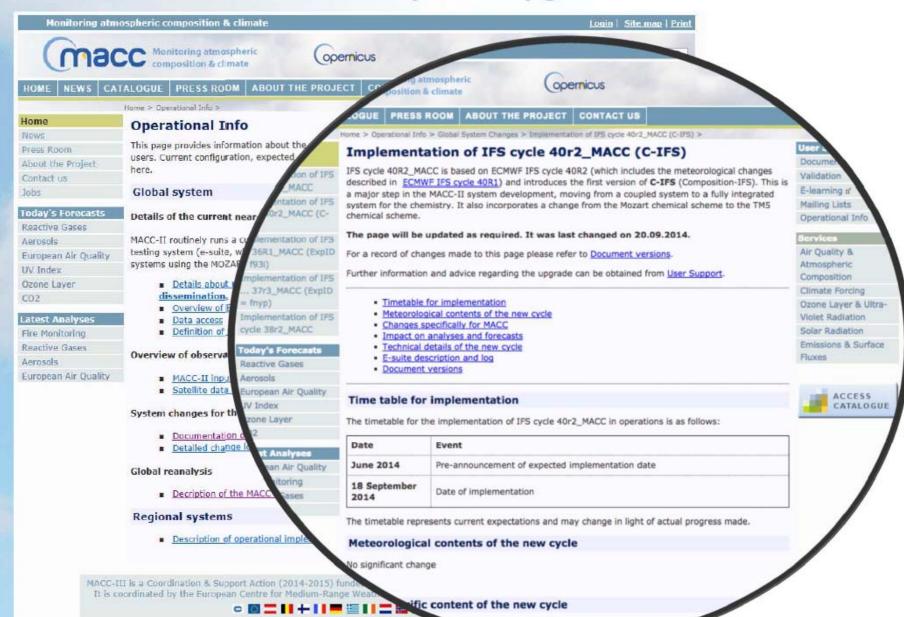
Mailing lists



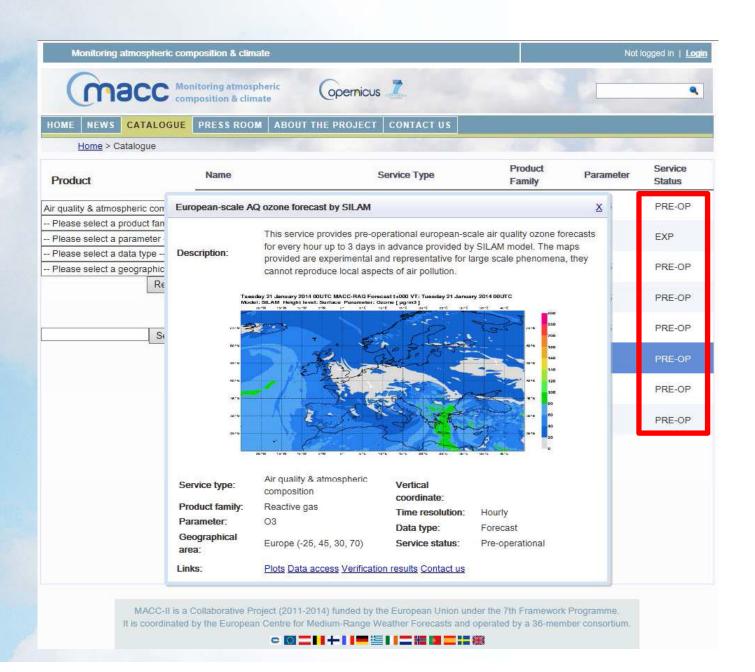
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Online information about system upgrades



Online service status



Impact of user feedback on service evolution

- Continuous service improvements for downstream services
 - Increased resolution of global, fire datasets
 - Increased area and forecast length of the regional ensemble
 - Increased ensemble output: species, vertical layers
 - New regional CO2 forecasting service
 - Dedicated campaign support website, policy support website
- Continuous improvements of documentation and data access
 - Online extended documentation
 - Online operational information
 - Demonstration web services
- Requirements considered in CAMS planning (prior tender info)
 - Ensemble operations to support interim assessment reports
 - Specialized user interface tools
 - Seamless transition to MACC-III and (to be assured!) operational phase





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