

CEOS Missions, Instruments and Measurements Database

2010 Update and Development

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2010 Database Updates

- CGMS relevant agencies involved
- Improved measurement confidence and data access information
- Continued coordination with WMO on information quality
- Continued coordination with the SEO on data refinement, applications and sharing
- **Overall improved utility for gap analysis and capability assessments**

2010 MIM Online Updates

- Enhanced timeline generation tool with graphic and table export capabilities
- Improved linkage to WMO GOS Dossier materials through collaboration with the SEO
- Improved linkage to the ESA's EO Portal
- Enhancements to descriptive information available online

➤ database.eohandbook.com

2010 Survey

- The CEOS MIM update survey will start in early May and close in early June 2010.
- Updated information will be put online ahead of CEOS Plenary

Please respond to the request for updated Agency MIM information

Tour

Screen Shots

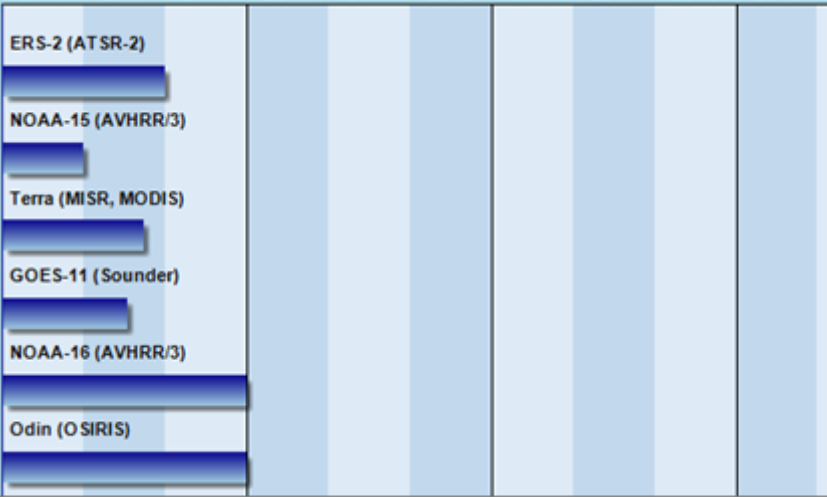
Enhanced Timelines

AEROSOLS

Current and Future Missions

■ Current
 ■ Approved
 ■ Planned
 ■ Considered

2010 2011 2012 2013 2014 2015 2016 2017 2018 2019



AEROSOLS

Current and Future Missions

■ Current
 ■ Approved
 ■ Planned
 ■ Considered

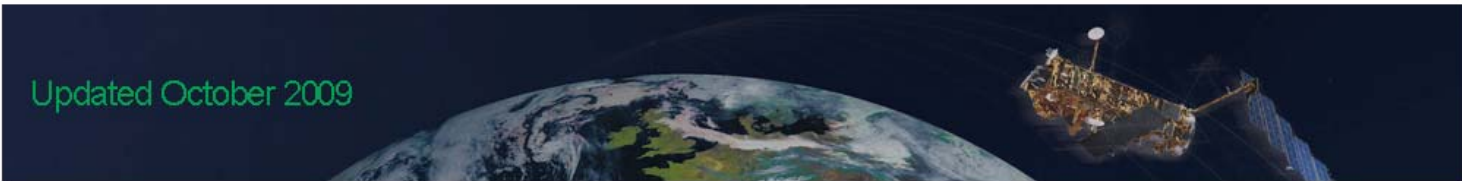
2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027



Measurements Browser



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CEOS EO HANDBOOK – MEASUREMENTS

Earth observation satellites provide important data about the Earth and its environment, helping develop our understanding of the basic Earth System and human influences on it. These data cover measurements of a very wide range of geophysical parameters, spanning the whole spectrum of the environment – [atmosphere](#), [land](#), [oceans](#), [ice and snow](#). You can read more about these measurements in the [Earth Observation Handbook](#).

The CEOS Missions, Instruments, and Measurements database contains information on many key measurements of interest to the main user groups of Earth observation satellite data. The table below includes links to further information on broader measurement categories (left), more detailed measurements (centre), and measurement timelines (right).

<p>Atmosphere</p>	<ul style="list-style-type: none"> ◆ Aerosols ◆ Atmospheric Humidity Fields ◆ Atmospheric Temperature Fields ◆ Atmospheric Winds ◆ Cloud particle properties and profile ◆ Cloud type, amount and cloud top temperature 	<ul style="list-style-type: none"> ◆ Lightning Detection ◆ Liquid water and precipitation rate ◆ Ozone ◆ Radiation budget ◆ Trace gases (excluding ozone) 	<p>Timelines</p>
<p>Land</p>	<ul style="list-style-type: none"> ◆ Albedo and reflectance ◆ Landscape topography ◆ Multi-purpose imagery (land) 	<ul style="list-style-type: none"> ◆ Soil moisture ◆ Surface temperature (land) ◆ Vegetation 	<p>Timelines</p>

Measurements Browser

CEOS EO HANDBOOK – MEASUREMENTS

Measurements > Atmosphere > Aerosols

Measurement type description needs to be added to the MIM DB.



Detailed Measurement	Description	Instruments	Timeline
Aerosol Extinction / Backscatter (column/profile)	Detailed measurement descriptions need to be added to the MIM DB.	23 instruments	
Aerosol optical depth (column/profile)	Detailed measurement descriptions need to be added to the MIM DB.	28 instruments	
Aerosol effective radius (column/profile)	Detailed measurement descriptions need to be added to the MIM DB.	9 instruments	
Visibility	Detailed measurement descriptions need to be added to the MIM DB.	1 instrument	
Volcanic ash	Detailed measurement descriptions need to be added to the MIM DB.	7 instruments	
Aerosol absorption optical depth (column/profile)	Detailed measurement descriptions need to be added to the MIM DB.	19 instruments	

