



**ATMO ACCESS**  
Access to Atmospheric Research Facilities



## Services provided by RADO

Romanian Atmospheric 3D research Observatory



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[atmo-access.eu](https://atmo-access.eu)

### SERVICE 1 – Aerosol-clouds-radiation studies

TYPE OF SERVICE	Research service
SERVICE DESCRIPTION	<p>Short and long-term experimental campaigns at RADO premises, using RADO's infrastructure and user's own instrumentation. The infrastructure at RADO combines ACTRIS compliant aerosol remote sensing, cloud remote sensing and aerosol in-situ instrumentation, along with complementary measurements for meteorological parameters and radiation. Additional instruments from the users can be accommodated indoor or outdoor, as needed.</p> <p>The service includes:</p> <ul style="list-style-type: none"> <li>• Support from the technical staff to install and operate the instruments</li> <li>• Support from the scientific staff to collect, process and analyze the data.</li> </ul>
ATMOSPHERE TYPE	Ambient
TYPE OF ACCESS	Physical and Remote
TARGET USERS	Academia
SERVICE STATUS	The service is available (operational and ready to be offered)
AVAILABILITY PERIOD	All year round
TIME CONSTRAINTS	None
CONTACT	Jeni Vasilescu (jeni@inoe.ro)

### SERVICE 2 – Cal/Val campaigns in support of satellite atmospheric missions

TYPE OF SERVICE	Research service
SERVICE DESCRIPTION	<p>Short and long-term experimental Cal/Val campaigns at RADO premises, using RADO's infrastructure and user's own instrumentation. The infrastructure at RADO combines ACTRIS compliant aerosol remote sensing, cloud remote sensing and aerosol in-situ instrumentation, along with complementary measurements for meteorological parameters and radiation. Additional instruments from the users can be accommodated indoor or outdoor, as needed. Overflights with small research aircrafts possible.</p> <p>The service includes:</p> <ul style="list-style-type: none"> <li>• Support from the technical staff to install and operate the instruments</li> <li>• Support from the scientific staff to set the measurements schedule coincident with satellite overpasses</li> <li>• Support from the scientific staff to collect, process and analyze the data.</li> </ul>

ATMOSPHERE TYPE	Pre-urban
TYPE OF ACCESS	Physical and Remote
TARGET USERS	Academia, ESA, EUMETSAT
SERVICE STATUS	The service is available (operational and ready to be offered)
AVAILABILITY PERIOD	All year round
TIME CONSTRAINTS	None
CONTACT	Jeni Vasilescu (jeni@inoe.ro)
<b>SERVICE 3 –Training</b>	
TYPE OF SERVICE	Training service
SERVICE DESCRIPTION	<p>Training through hands-on operation of instruments and data analysis. The service applies to aerosol remote sensing, cloud remote sensing and aerosol in-situ measurement techniques and variables as defined in ACTRIS.</p> <p>The service includes:</p> <ul style="list-style-type: none"> <li>• Hands-on training for operation and calibration of instruments</li> <li>• Training for setting up data processing environments</li> <li>• Training for using advanced processing algorithms (NATALI, GRASP)</li> </ul>
ATMOSPHERE TYPE	Ambient
TYPE OF ACCESS	Physical and Remote
TARGET USERS	Academia
SERVICE STATUS	The service is available (operational and ready to be offered)
AVAILABILITY PERIOD	All year round
TIME CONSTRAINTS	None
CONTACT	Jeni Vasilescu (jeni@inoe.ro)
<b>SERVICE 4 – Deployment of mobile reference aerosol lidar for short-term campaigns</b>	
TYPE OF SERVICE	Technical service

<b>SERVICE DESCRIPTION</b>	<p>Deployment of a mobile aerosol lidar for short-term campaigns and/or direct comparisons with similar instruments. The instrument operates at 1064, 532 and 355 nm wavelengths, with polarization at 532 nm and nighttime extinction capabilities at 532 and 355 nm. It can be operated inside a van (provided by RADO on request) or accommodated in the user's laboratory (specific conditions to be discussed in advance).</p> <p>The service includes:</p> <ul style="list-style-type: none"> <li>• Deployment and installation of the instrument at the user's premises</li> <li>• Calibration, and operation of the instrument</li> <li>• Provision of the raw measurements</li> <li>• Provision of the processed data</li> </ul>
<b>ATMOSPHERE TYPE</b>	Ambient
<b>TYPE OF ACCESS</b>	Physical
<b>TARGET USERS</b>	Academia, Business, Public sector, privates
<b>SERVICE STATUS</b>	The service is available (operational and ready to be offered)
<b>AVAILABILITY PERIOD</b>	All year round
<b>TIME CONSTRAINTS</b>	None
<b>CONTACT</b>	Livio Belegante (livio@inoe.ro)
<b>SERVICE 5 – Testing of aerosol lidar prototypes</b>	
<b>TYPE OF SERVICE</b>	Technical service
<b>SERVICE DESCRIPTION</b>	<p>Testing of aerosol lidar prototypes by direct comparison with the reference Aerosol High-power Lidar operated at RADO premises by the ACTRIS Centre for Aerosol Remote Sensing (CARS). The instrument operates at 1064, 532 and 355 nm wavelengths, with polarization and daytime extinction capabilities, including HSRL at 532 nm. The user can either send the instrument, or accompany the instrument at RADO's premises.</p> <p>The service includes:</p> <ul style="list-style-type: none"> <li>• Support from the technical staff to install and operate the instruments</li> <li>• Support from the scientific staff to select and implement the testing scenarios</li> <li>• Support from the scientific staff to perform the comparative measurements and analyze the results</li> </ul>
<b>ATMOSPHERE TYPE</b>	Ambient
<b>TYPE OF ACCESS</b>	Physical and Remote
<b>TARGET USERS</b>	Private sector

SERVICE STATUS	The service is available (operational and ready to be offered)
AVAILABILITY PERIOD	All year round
TIME CONSTRAINTS	None
CONTACT	Livio Belegante (livio@inoe.ro)

