



ATMO ACCESS
Access to Atmospheric Research Facilities



Services provided by SBO

Sonnblick Observatory



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atmo-access.eu

SERVICE 1 – Intercomparison of instruments for cloud in situ, LWC	
TYPE OF SERVICE	Technical service
SERVICE DESCRIPTION	Comparison of instruments measuring LWC with a fixed European ACTRIS reference instrument, short report and certificate
ATMOSPHERE TYPE	Ambient
TYPE OF ACCESS	Physical, remote
TARGET USERS	Academia, business, public sector
SERVICE STATUS	In implementation, starting in 2023/24
AVAILABILITY PERIOD	Summer, Autumn
TIME CONSTRAINTS	Yearly
CONTACT	Christian Maier (christian.maier@zamg.ac.at)
SERVICE 2 – Sampling support	
TYPE OF SERVICE	Technical service
SERVICE DESCRIPTION	Support in the collection of precipitation (snow, ice, rain), filter or other samples in the area of Mt. Hoher Sonnblick for scientific analyses, also event-based sampling
ATMOSPHERE TYPE	Ambient
TYPE OF ACCESS	Physical, remote
TARGET USERS	Academia, business, public sector
SERVICE STATUS	The service is available (operational and ready to be offered)
AVAILABILITY PERIOD	All year round
TIME CONSTRAINTS	None
CONTACT	Elke Ludewig (elke.ludewig@zamg.ac.at)
SERVICE 3 – Instrument operation	
TYPE OF SERVICE	Technical service
SERVICE DESCRIPTION	Planning, installation, commissioning and support of measuring instruments, which should measure at the Sonnblick Observatory. Connection to inlet, indoor or outdoor operation, documentation and feedback with instrument owner.

ATMOSPHERE TYPE	Ambient
TYPE OF ACCESS	Physical, remote
TARGET USERS	Academia, business, public sector
SERVICE STATUS	The service is available (operational and ready to be offered)
AVAILABILITY PERIOD	All year round
TIME CONSTRAINTS	None
CONTACT	Elke Ludewig (elke.ludewig@zamg.ac.at)
SERVICE 4 – Internship	
TYPE OF SERVICE	Research service, Training service
SERVICE DESCRIPTION	Internship for students to become familiar with observatory operations and conduct their own small studies. Duration at least 2 weeks at the observatory.
ATMOSPHERE TYPE	Ambient
TYPE OF ACCESS	Physical
TARGET USERS	Academia
SERVICE STATUS	The service is available (operational and ready to be offered)
AVAILABILITY PERIOD	Twice a year
TIME CONSTRAINTS	Winter, Summer
CONTACT	Elke Ludewig (elke.ludewig@zamg.ac.at)
SERVICE 5 – Cable car profiles	
TYPE OF SERVICE	Technical service
SERVICE DESCRIPTION	The Sonnblick Observatory has a cable car that covers 1,500 meters in altitude between the valley and the mountain. The cable car can be used for measuring profiles.
ATMOSPHERE TYPE	Ambient
TYPE OF ACCESS	Physical, remote
TARGET USERS	Academia, business, public sector
SERVICE STATUS	The service is available (operational and ready to be offered)
AVAILABILITY PERIOD	All year round

TIME CONSTRAINTS	No operation during thunderstorms
CONTACT	Elke Ludewig (elke.ludewig@zamg.ac.at)
SERVICE 6 – Data analysis and preparation	
TYPE OF SERVICE	Data service, Research service
SERVICE DESCRIPTION	Data analysis and preparation of SBO data on specific issues, as well as graphical processing and reporting
ATMOSPHERE TYPE	n/a
TYPE OF ACCESS	Remote
TARGET USERS	Academia, business, public sector
SERVICE STATUS	Implementation
AVAILABILITY PERIOD	All year round
TIME CONSTRAINTS	Depending on free resources and available lead time
CONTACT	Elke Ludewig (elke.ludewig@zamg.ac.at)
SERVICE 7 – Regional to global backwards modelling with ECMWF-FLEXPART model	
TYPE OF SERVICE	Data service, Research service
SERVICE DESCRIPTION	Identification of possible source regions for air masses arriving at observatory based on atmospheric transport modelling based on meteorological forecast or analysis data from ECMWF
ATMOSPHERE TYPE	n/a
TYPE OF ACCESS	Remote
TARGET USERS	Academia, business
SERVICE STATUS	The service is available (operational and ready to be offered)
AVAILABILITY PERIOD	All year round
TIME CONSTRAINTS	Upon request depending on requirements (e.g. time period)
CONTACT	Kathrin Baumann-Stanzer (k.baumann-stanzer@zamg.ac.at)
SERVICE 8 – Time-series of atmospheric boundary layer heights derived from ceilometer observations	
TYPE OF SERVICE	Data service, Research service
SERVICE DESCRIPTION	Identification of height-range above valley floor influenced by boundary layer air/free troposphere.

ATMOSPHERE TYPE	n/a
TYPE OF ACCESS	Remote
TARGET USERS	Academia, business
SERVICE STATUS	The service is available (operational and ready to be offered)
AVAILABILITY PERIOD	All year round
TIME CONSTRAINTS	Upon request depending on requirements (e.g. time period)
CONTACT	Kathrin Baumann-Stanzer (k.baumann-stanzer@zamg.ac.at)

SERVICE 9 – Measurement of boundary layer wind and turbulence profiles

TYPE OF SERVICE	Technical service, data service, research service
SERVICE DESCRIPTION	Conduction of wind Lidar measurements, data processing
ATMOSPHERE TYPE	Ambient
TYPE OF ACCESS	Remote
TARGET USERS	Academia, business
SERVICE STATUS	The service is available (operational and ready to be offered)
AVAILABILITY PERIOD	All year round
TIME CONSTRAINTS	Depending on the availability of instrumentation
CONTACT	Kathrin Baumann-Stanzer (k.baumann-stanzer@zamg.ac.at)

SERVICE 10 – Specific weather forecast for Mt. Hoher Sonnblick

TYPE OF SERVICE	Information
SERVICE DESCRIPTION	Weather forecast for Mt. Hoher Sonnblick: From permanently updated very short range forecasts (Nowcasts) over day-to-day forecasts to long-term and trends over weeks
ATMOSPHERE TYPE	Ambient
TYPE OF ACCESS	Remote
TARGET USERS	Academia, Business, Public sector, privates
SERVICE STATUS	Implementation
AVAILABILITY PERIOD	All year round

TIME CONSTRAINTS	None
CONTACT	Michael Butschek (m.butschek@zamg.ac.at)
SERVICE 11 – Climate scenarios for Mt. Hoher Sonnblick	
TYPE OF SERVICE	Information
SERVICE DESCRIPTION	Climate scenarios and climate change information for Sonnblick, for different altitude levels by the year 2100
ATMOSPHERE TYPE	Ambient
TYPE OF ACCESS	Remote
TARGET USERS	Academia, Business, Public sector, privates
SERVICE STATUS	Implementation
AVAILABILITY PERIOD	All year round
TIME CONSTRAINTS	None
CONTACT	Alexander Ohms (a.ohms@zamg.ac.at)
SERVICE 12 – Meteorological consulting	
TYPE OF SERVICE	Information
SERVICE DESCRIPTION	Individual consulting on meteorological topics of any kind associated with Mt. Hoher Sonnblick (in particular weather briefings)
ATMOSPHERE TYPE	Ambient
TYPE OF ACCESS	Remote
TARGET USERS	Academia, Business, Public sector, privates
SERVICE STATUS	The service is available (operational and ready to be offered)
AVAILABILITY PERIOD	All year round 24/7
TIME CONSTRAINTS	None
CONTACT	Michael Butschek (m.butschek@zamg.ac.at)
SERVICE 13 – Avalanche advice and avalanche warning service	
TYPE OF SERVICE	Information
SERVICE DESCRIPTION	Access to avalanche warning system and individual consulting on avalanche topics associated with Sonnblick
ATMOSPHERE TYPE	Ambient

TYPE OF ACCESS	Remote
TARGET USERS	Academia, Business, Public sector, privates
SERVICE STATUS	The service is available (operational and ready to be offered)
AVAILABILITY PERIOD	Winter, Spring, late Autumn
TIME CONSTRAINTS	None
CONTACT	Michael Butschek (m.butschek@zamg.ac.at)

