Umweltforschungsstation Schneefernerhaus - UFS

Umwelt Forschungsstation Schneefernerhaus

Virtual Alpine Observatory

Deutsches Zentrum für Luft- und Raumfahrt

Universität Augsburg University

bifa Umweltinstitut

Leibniz-Rechenzentrum der Bayerischen Akademie der Wissenschaften

The Alpine Environmental Data Analysis Centre (AlpEnDAC) –

A core element of the Virtual Alpine Observatory (VAO)

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VAO

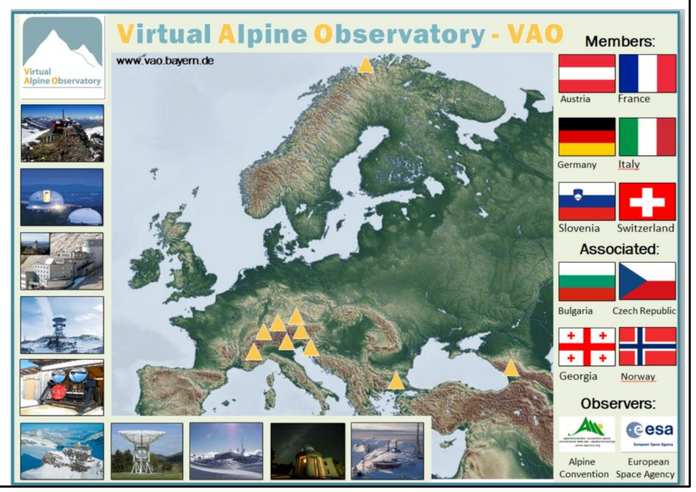
VAO: Network of European Alpine Observatories with interlinked infrastructure and joint research topics

Motto: Scientific cooperation – joining forces and resources to avoid duplicate work

Goal: Establishment and further development of high altitude research institutions that address pressing scientific and societal issues

Countries participating: Austria, France, Germany, Italy, Slovenia, Switzerland

Associated countries: Bulgaria, Czech Republic, Georgia, Norway



AlpEnDAC – core element of VAO

AlpEnDAC is an innovative platform where scientists can easily organise and analyse their data and use numerical models to understand their measurements.

AlpEnDAC is easy to use for every researcher, not only for IT experts through a simple interface.

AlpEnDAC aims to be the collaboration platform of VAO, enabling researchers to share data and analyse it together.

Technical Guideline - AlpEnDAC

Distributed resources: AlpEnDAC transparently uses resources at DLR and LRZ for reliability and data safety.

Infrastructural interoperability: Interfaces comply with common standards (e.g. OGC, HTTP-REST).

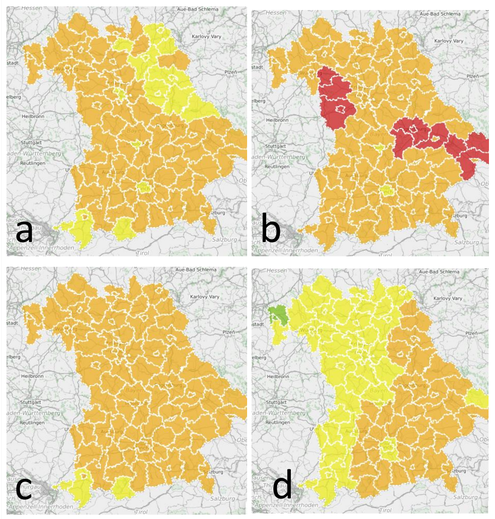
Data standard: Data are stored along with metadata in standard formats.

Simplicity: User-friendly/reliable frontend.

State-of-the-art technology: For everyday work, bleeding-edge technology for development.

Example: BioCliS

As one product AlpEnDAC informs about daily means of environmental and human health parameters on district levels.



Example O3 (Bavaria)
Mean concentration [mg / cm³]

a) past (1.9.19)
b) present (2.9.19)
c) forecast I (3.9.19)
d) forecast II (4.9.19)

Plans for AlpEnDAC-II

Operating on Demand – instruments react on data events.

Service on Demand – analyses/data taking triggered by data events.

Service Management / User Support oriented at ISO 20k standards.

Contact

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