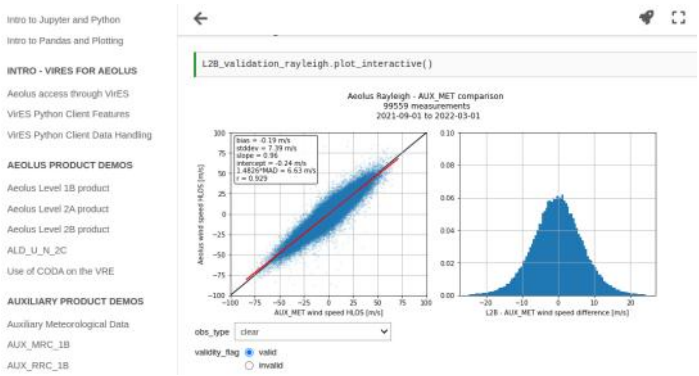


Earth's wind as observed by satellite

VirES Aeolus provides a highly interactive data manipulation and retrieval **web client** as well as a newly developed in depth data exploitation **Virtual Research Environment (VRE)** for interacting with the official **ESA Aeolus** archives.

Virtual Research Environment



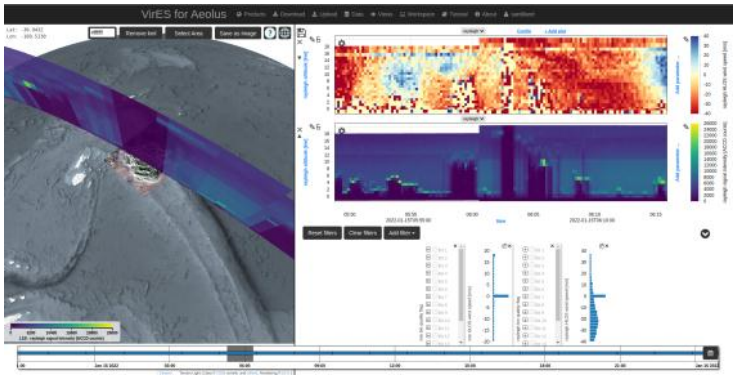
https://notebooks.aeolus.services

The Virtual Research Environment has been implemented to further extend the capabilities of the service allowing users to perform larger data analysis and exploitation processes.

Users are provided a JupyterLab environment in the cloud, "Batteries included" providing:

- Software packages and dependencies
- Configuration for data access
- Storage and computing resources
- Extensive example resources and documentation
- Python client for easy data interaction

Web client



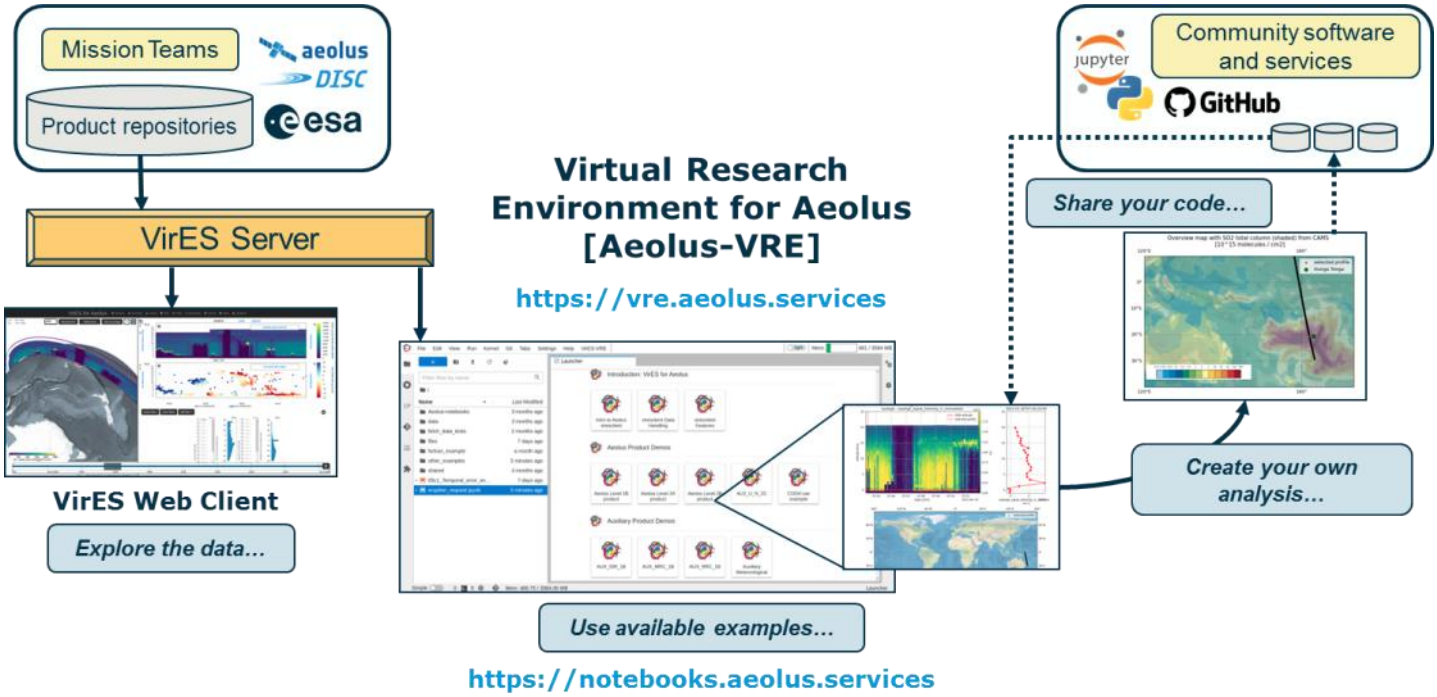
https://aeolus.services

The web client allows fast easy access to the data through the web browser. Specialized solutions have been developed to be able to visualize the extensive amount of data in an interactive and intuitive way. The tool has been actively used since the first data has been made available and initial feedback has been very positive. A balance between simplicity, intuitiveness and complex feature richness had to be found for the interface.

VirES stands for a modern concept of extended access to Earth Observation (EO) data. It supports novel ways of data discovery, visualization, filtering, selection, analysis, snapshotting and downloading.



VirES Aeolus Component Overview



Data

The following products are provided through the VirES for Aeolus Service:

- **Level 1B:** Preliminary horizontal line-of-sights wind observations and useful signals
- **Level 2A**: Aerosol/cloud optical product
- **Level 2B/2C**: Scientific wind products
- **MRC/RRC:** Mie/Rayleigh response calibration
- **AUX ISR:** Instrument Spectral Registration
- **AUX ZWC:** Zero-Wind Calibration
- **AUX MET:** Meteorological data

Sign-up & Login

VirES for Aeolus is open to the public, visit following link to get access. For any questions or feedback feel free to contact us under feedback@vires.services

https://aeolus.services