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Overview of the ADAGUC project

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The atmospheric and geospatial communities are still separate worlds with their own tools and data formats. It is extremely difficult to easily share data among scientists representing these communities without performing some cumbersome conversions. The ADAGUC (Atmospheric Data Access for the Geospatial User Community) project aims to reduce the need for scientists to invent their own converter tools. Selected space borne atmospheric datasets are now being made accessible to a GIS system in order to facilitate easy data comparison, re-sampling, selection, manipulation and visualization. For example, for the first time the unique Sciamachy datasets have been made accessible to the GIS community.

The user community is strongly involved in the project in order to obtain representative requirements. As an initial step, use cases were defined based on the user's needs and practices. These have been compiled into user requirements specifications. Based on these specifications a selection of OGC (Open Geospatial Consortium) compliant services (WMS, WFS and WCS) have been or are being implemented for the ADAGUC datasets.

The deliverables of this project are: Open Source conversion tools, selected atmospheric datasets in a GIS-friendly format and web services. With these deliverables we aim to bridge the gap between the geospatial and atmospheric community.