The relevance and use of atmospheric data access for the geospatial user community (ADAGUC)

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Abstract: 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. ADAGUC aims to reduce the need for scientists to invent their own converter tools. Selected space borne atmospheric datasets will be made accessible to a GIS system in order to be submitted to data comparison, resampling, selection, manipulation and visualization. The user community will be intensively involved in the project to obtain a high fitness for use. The first ADAGUC workshop (Oct 2006) was attended by a large group of users from both the atmospheric and GIS community and resulted in a better understanding of user needs that are currently translated into specifications for the user requirements document of ADAGUC. The deliverables of this project are: Open Source conversion tools, selected atmospheric datasets in a GIS-friendly format and a web service to demonstrate the usability of the above to the geospatial and atmospheric community.

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First Results

NO₂ Map for Europe

OMI Tropospheric NO₂, Dec 2004 until Nov 2005

Improved Space Estimates of NOx deposition (Scheme)

Conclusions

First results demonstrate that structured access to atmospheric data significantly increases their use and contributes to the development of advanced applications for various stakeholders. A portal for data dissemination will be set up in a following step for user community wide access.
Abstract for 10th Intl. Symposium on Physical Measurements and Signatures in Remote Sensing

Theme: Data fusion approaches based on multi-platform or multiple sensor techniques

The relevance and use of Atmospheric Data Access for the Geospatial User Community (ADAGUC)

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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. ADAGUC aims to reduce the need for scientists to invent their own converter tools. Selected space borne atmo-spheric datasets will be made accessible to a GIS system in order to be submitted to data comparison, resampling, selection, manipulation and visualization. The user community will be intensively involved in the project to obtain a high fitness for use.

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