Geophysical Research Abstracts
Vol. 14, EGU2012-8483, 2012
EGU General Assembly 2012

A Community-oriented CEOS Atmospheric Composition Portal (ACP)

S. Bernonville (1), O. Goussev (1), S. Falke (4), F. Lindsay (3), C. S. Lynnes (2), W. Yang (2), P. Zhao (2), and J. Johnson (2)

(1) DLR, Germany (severine.bernonville@dlr.de), (2) NASA/GSFC, Greenbelt, MD, United States, (3) NASA/HQ, Washington, DC, United States, (4) Information Systems, Northrop Grumman, Chantilly, VA, United States

The Atmospheric Composition Constellation (ACC) and the Workgroup for Information Systems and Services (WGISS) within the Committee on Earth Observation Satellites (CEOS) is developing a portal to support interoperability among the atmospheric composition research and applications communities. The CEOS Atmospheric Composition Portal (ACP) is defining approaches for providing data access, tools and contextual guidance for an international suite of remote sensing datasets. An initial prototype provides access to data services and analysis tools hosted by the World Data Center for Remote Sensing of the Atmosphere (WDC-RSAT), NASA's Goddard Earth Sciences Data and Information Services Center (GES DISC) and DataFed. Distributed access to data is implemented via interoperability standards, including the Open Geospatial Consortium's (OGC) Web Map Service (WMS) and Web Coverage Service (WCS).

A fundamental aspect to the design, implementation and evolution of the ACP is community collaboration. The portal is intended as a community resource that is created through collaboration across remotely sensed atmospheric composition data organizations and used by a variety of groups across the climate, air quality, and stratospheric ozone domains. The implementation of interoperability standards in the ACP has involved coordination on identifying the most applicable standards and the definition of community-specific conventions to ensure consistent adoption of standards. This presentation includes an overview of the ACP, its community oriented approach, and use of community-conventions in achieving standards-based interoperability.