

A Network of Excellence

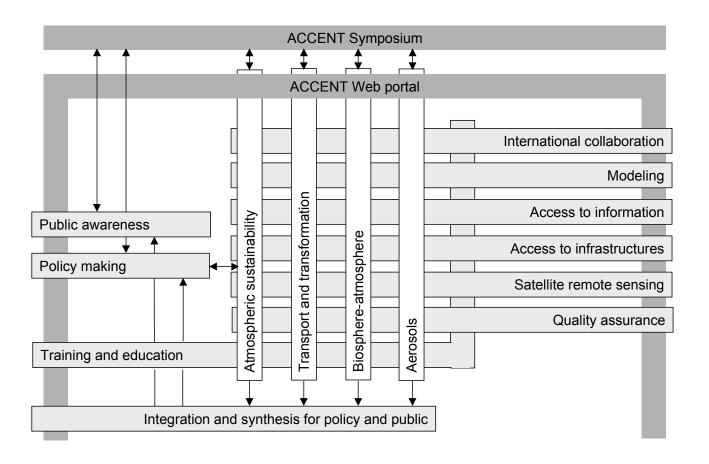
Atmospheric Composition Change: an European Network (ACCENT)

Co-ordinator:

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(43 Partners + Associates)





Connections and interrelations of the ACCENT Subprojects and Tasks



Integrating activity 3 (UiO)

Calibration, co-ordination and synthesis of models from global to local scales

Objectives

- •Define the framework and establish a benchmark facility for model development and validation
- Perform model/model and model/measurement comparison to improve model capability
- •Perform model studies to improve parameterisation in global and regional scale model including code sharing
- •Organize future long-term model studies with input to international assessments (IPCC, 2007).
- •Make the modelling facility accessible to the European science community, exchange of modules.



Integrating activities

- Code sharing in model development
- Establish links to other activities within ACCENT
- Co-ordinate activities with other EU projects and link these activities with the modeling activities
- Establish collaboration to activities outside ACCENT (e.g. interactive climate-chemistry models, Earth System models)
- Provide links to research activities in national programs



ACCENT modeling meetings

- June 2004, Startup workshop, Paris (jointly with emission workshop)
- November 2004, Planning meeting for model activities in Jülich
- January 2005, Oslo, model intercomparison workshop (assessment)
- June 2005, Oslo, Modeling and QA workshop jointly with 4 other ACCENT tasks
- September 2005, Urbino, ACCENT symposium



IA3 activities

- After the first announcement for associate members, 19 applications to IA3 were accepted.
- A web page with access to the modelling activities have been established through the ACCENT web portal:
 http://www.acent-network.org → Modeling
- An advanced ftp site (with web interface) is established: http://norgrid.uio.no/mySRB/



Two major assessments are under way:

- Exp I: Ozone change and radiative forcing: 1850, 2000, 2100
 - 13 modelling groups participate (both GCMs and CTMs)
 - Ozone changes in the troposphere and the stratosphere is calculated based on EDGAR-Hyde, WMO, and SRES emissions
 - Calculation of radiative forcing
- Exp II: AQ-climate feedback: 2000, 2030
 - 25 modelling groups participate (GCMs and CTMs)
 - IIASA and SRES emission scenarios
 - Emphasis on the synergetic effect of air quality and climate gas (CH4),
 and on human health and vegetation exposure
 - Calculation of radiative forcing

