

Development and Planned activities

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	Fall-Back	1 st	2 nd	3 rd
Chemistry	<u>None</u>	Input Oxidants	Simple	Full
Biogeochem.	<u>Input N</u>	Input N Input O3	Prognostic N and O3	
Stratosphere	<u>No</u>	Limited	Yes	
Aerosols	Prescribed: 1) Bulk 2) #, mass Internally Mix	Prog., Bulk SS, Dust, SO4 OC, BC Ox. input/prog	Prog, Modal (#, mass calc.) 3/4/7 internally mixed modes Ox. input/prog	
Microphysic (indirect effect)	Present w/ Mods	2 moment 4 class		
Emissions	IPCC			

Recent developments

- Implementation and testing of AEROCOM emissions for pre-industrial and present-day
- Implementation of new lookup table formulation (with changes to preprocessor)
- Continuing merger of CAM-chem and WACCM on CAM3.5.4x

Development in progress (?)

- New wet deposition
- Updated dry deposition (response to LAI, ozone impact)
- Photolysis rates from FAST-J
- Simple chemistry (from M. Prather)

Planned activities

- AEROCOM: on-going (Andrew Gettelman)
- HTAP: on-going (Peter Hess)
- CCMval: summer-fall 2008 (JF Lamarque)
- AC&C hindcast: start fall 2008 (Peter Hess)
- AR5 and AC&C future: start fall 2008 early 2009 (JF Lamarque)