

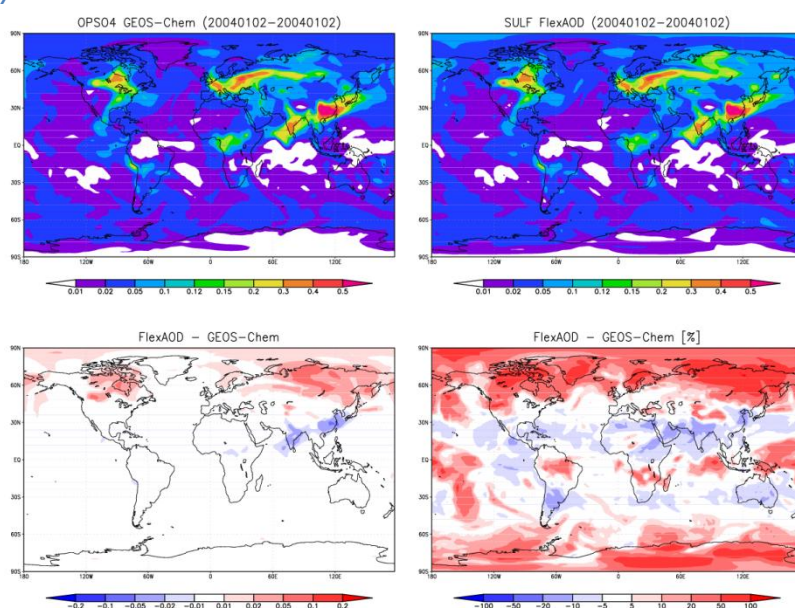
FlexAOD offline calculations against online (and the “RH” issue) @ 550 nm

Results are shown for GEOS-Chem v9-01-01 (online) and FlexAOD v1.4 “STD case” (offline) AOD calculations. Plots are the average of hourly timeseries (ND49) of February 2nd 2004. Panels show: top-left, online calculation; top-right, offline; bottom-left, absolute difference offline-online; bottom-right, relative difference offline-online. For each species, the comparison online/offline is shown for the standard case with standard relative humidity output (standard RH) and for a case with corrected relative humidity output (chemistry RH, see FlexAOD wiki page).

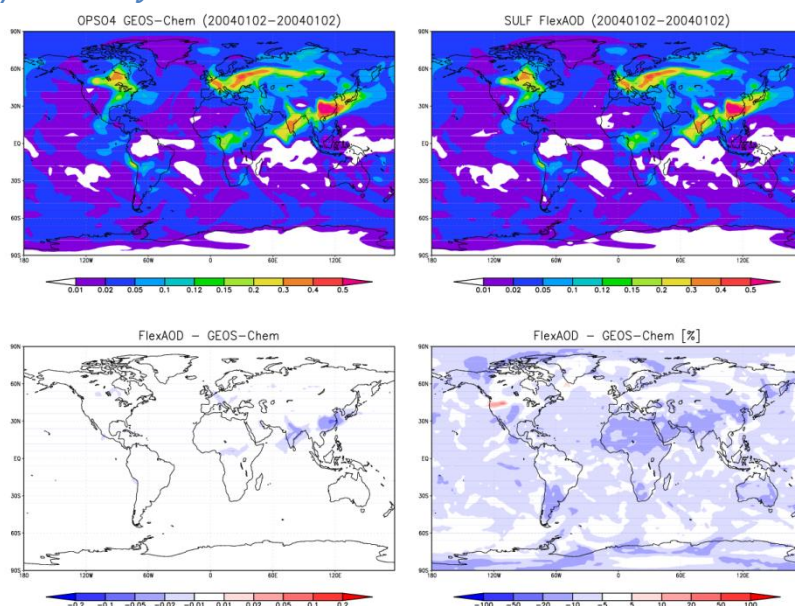
-- Gabriele Curci, August 1st 2011

Sulfate AOD

Online vs offline w/ standard RH

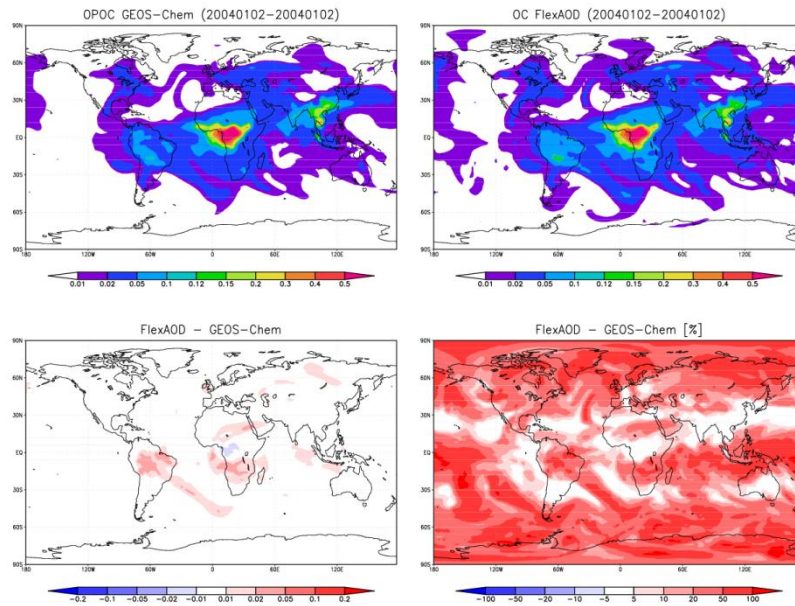


Online vs offline w/ chemistry RH

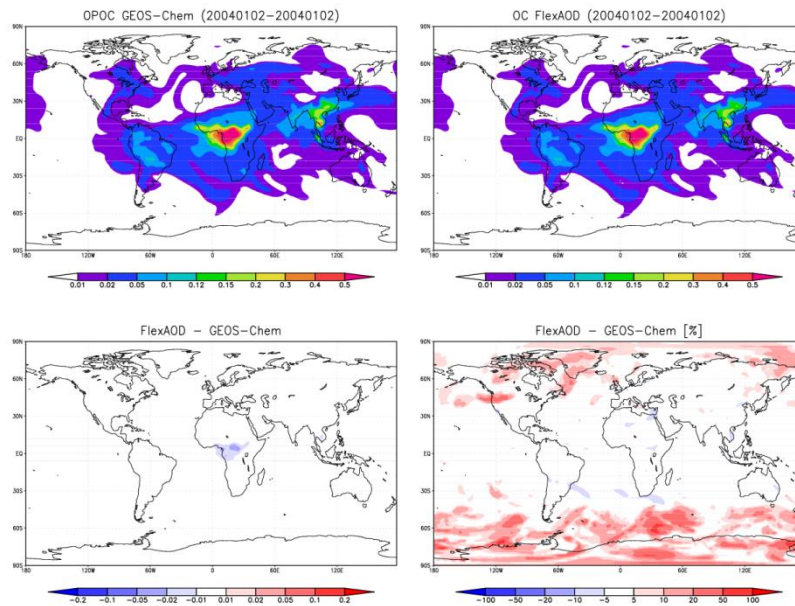


Organic Carbon AOD

Online vs offline w/ standard RH

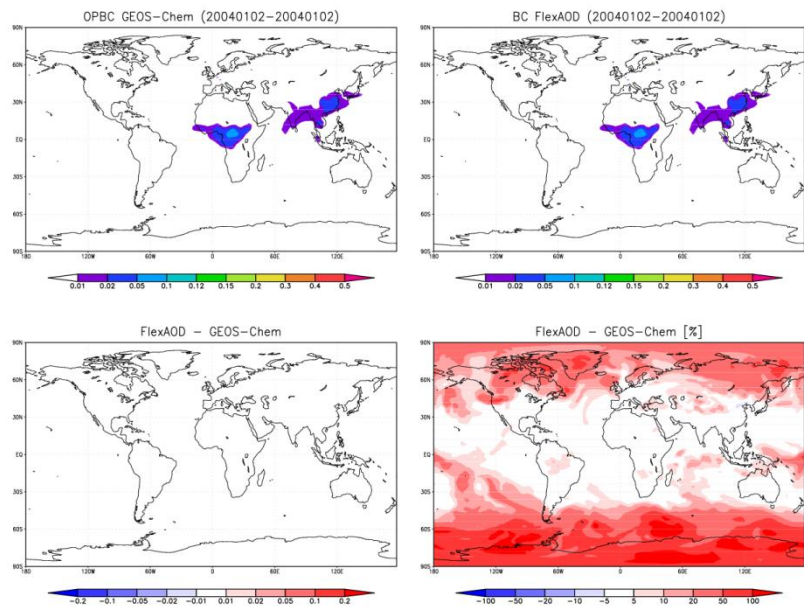


Online vs offline w/ chemistry RH

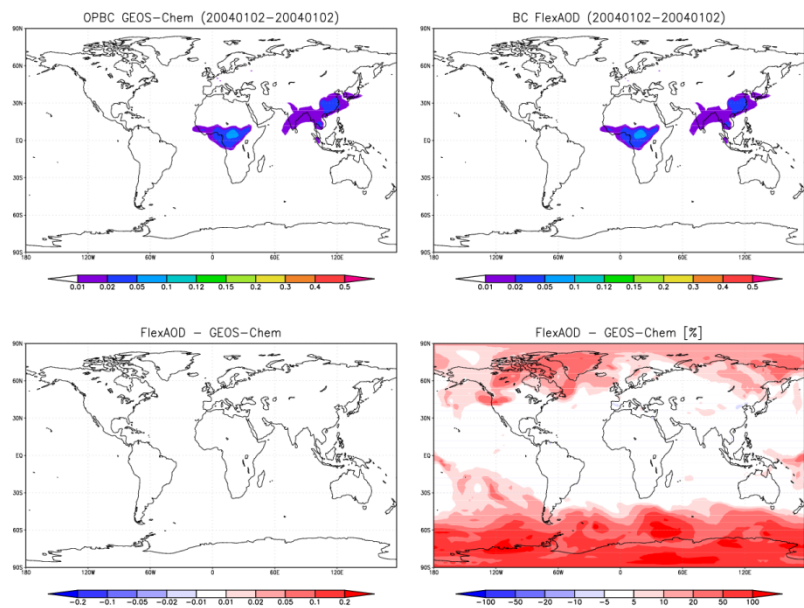


Black Carbon AOD

Online vs offline w/ standard RH

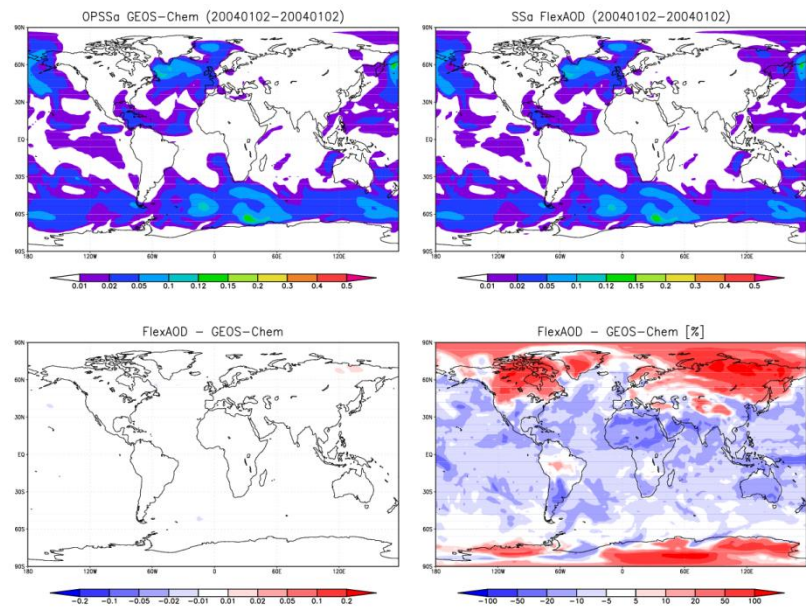


Online vs offline w/ chemistry RH

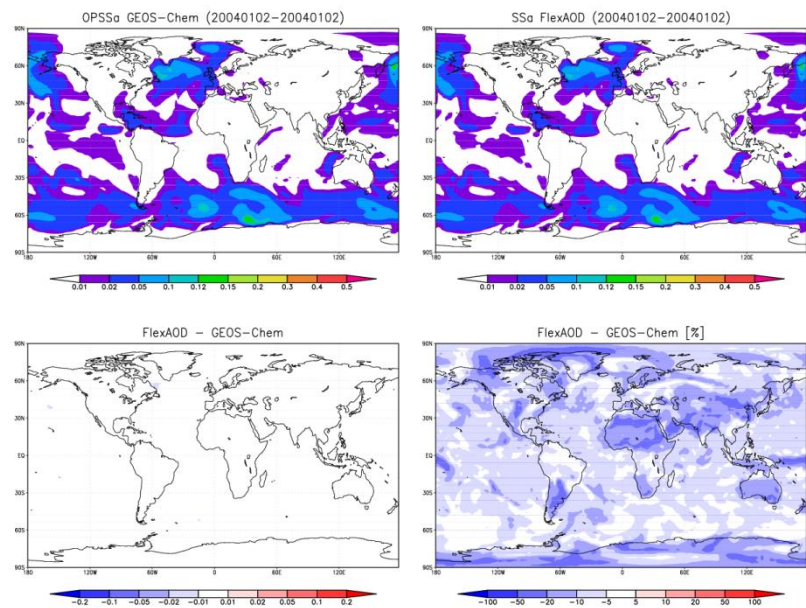


Sea Salt Accumulation AOD

Online vs offline w/ standard RH

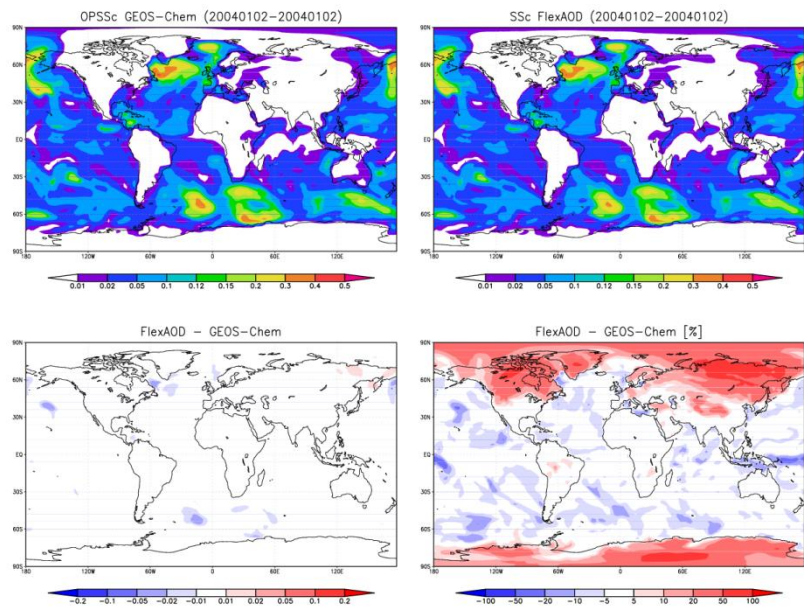


Online vs offline w/ chemistry RH

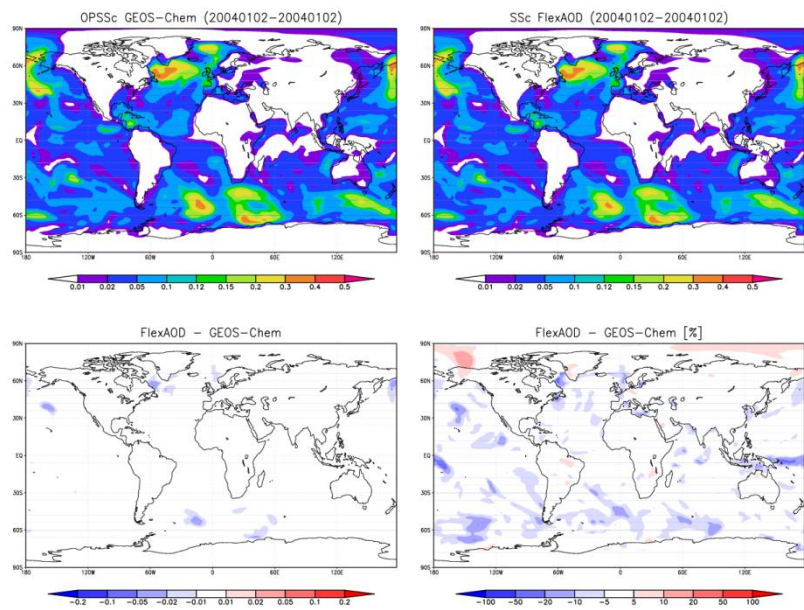


Sea Salt Coarse AOD

Online vs offline w/ standard RH

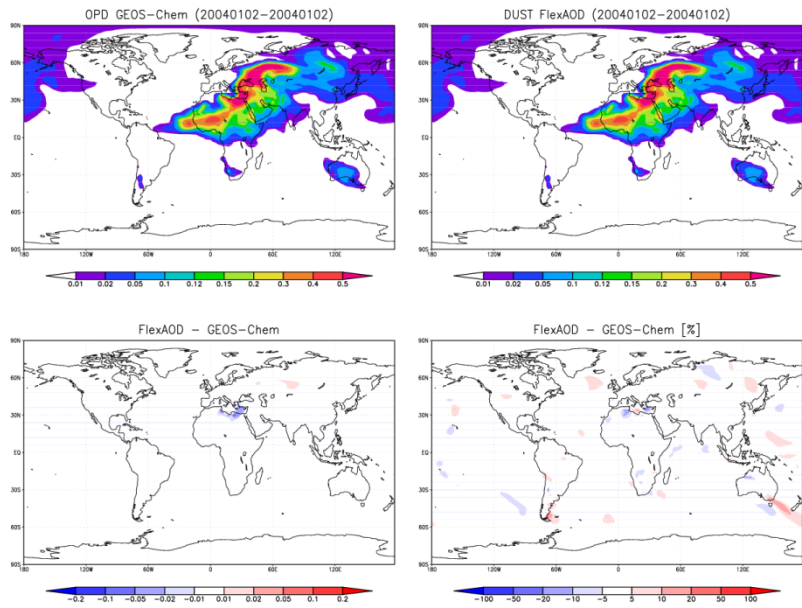


Online vs offline w/ chemistry RH



Dust AOD

Online vs offline w/ standard RH



Online vs offline w/ chemistry RH

