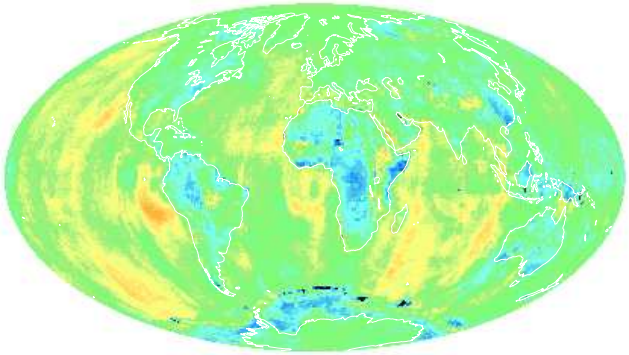
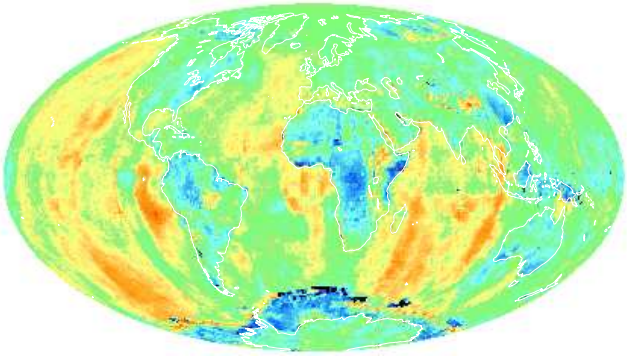
**Tuned Minus Observed SW TOA**



**GlbAvg= -0.05**

-24 -18 -12 -6 0 6 12 18 24

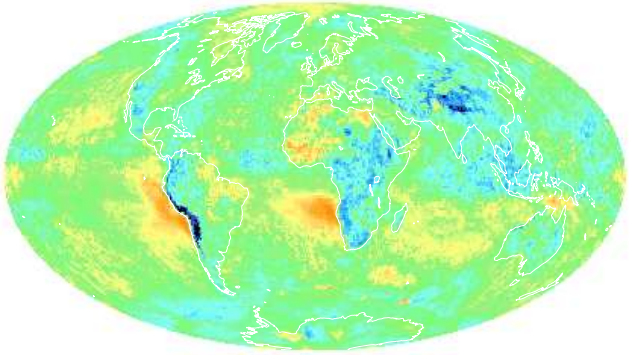
**Untuned Minus Observed SW TOA**



**GlbAvg= 0.57**

-24 -18 -12 -6 0 6 12 18 24

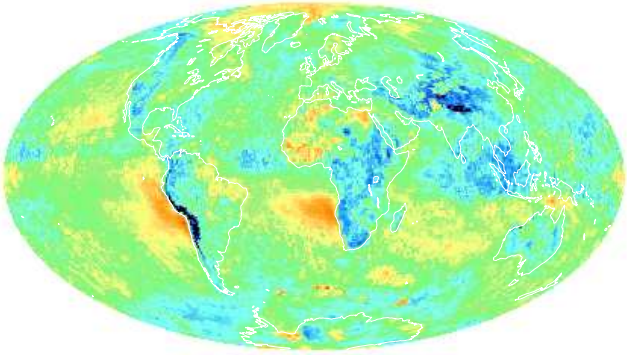
**Tuned Minus Observed LW TOA**



**GlbAvg= -0.58**

-18.0 -13.5 -9.0 -4.5 0.0 4.5 9.0 13.5 18.0

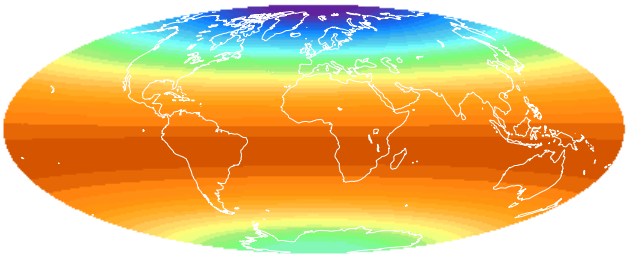
**Untuned Minus Observed LW TOA**



**GlbAvg= -0.96**

-18.0 -13.5 -9.0 -4.5 0.0 4.5 9.0 13.5 18.0

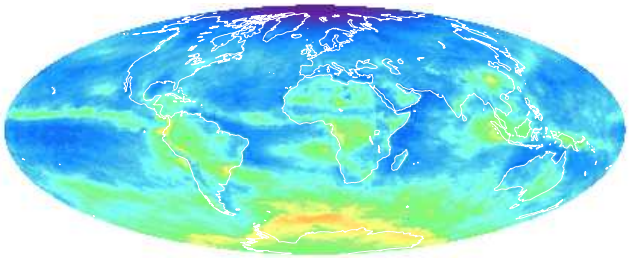
Tuned SW DN



GlbAvg= 343.38

0 62 125 188 250 312 375 438 500

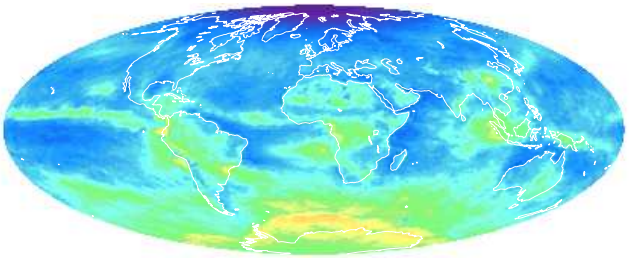
OBS SW UP



GlbAvg= 98.43

0.0 37.5 75.0 112.5 150.0 187.5 225.0 262.5 300.0

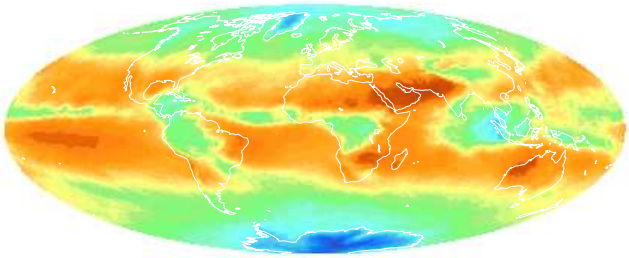
Tuned SW UP



GlbAvg= 98.38

0.0 37.5 75.0 112.5 150.0 187.5 225.0 262.5 300.0

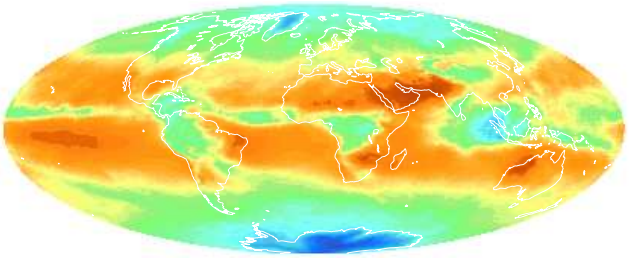
OBS LW UP



GlbAvg= 238.70

100 129 158 186 215 244 272 301 330

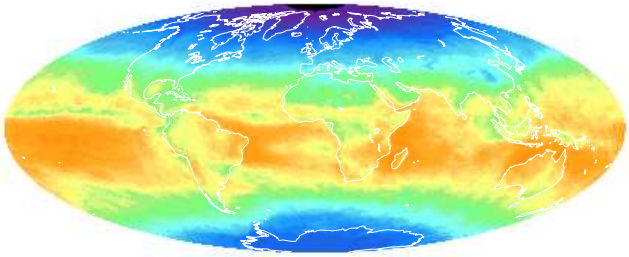
Tuned OLR



GlbAvg= 238.12

100 129 158 186 215 244 272 301 330

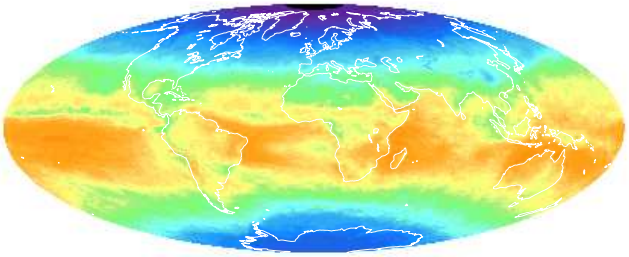
Obs SW NET



GlbAvg= 244.94

0 62 125 188 250 312 375 438 500

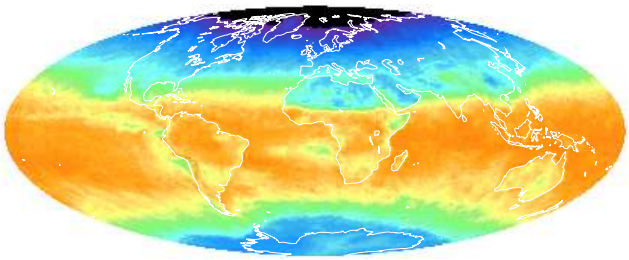
Tuned SWNET



GlbAvg= 244.99

0 62 125 188 250 312 375 438 500

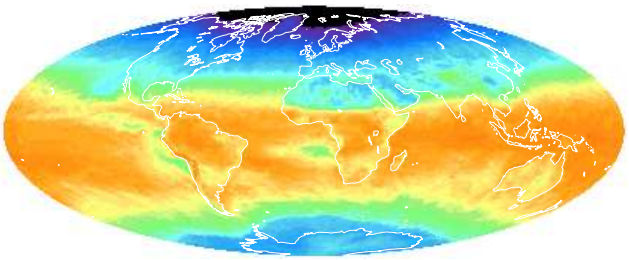
OBS TOA SW&LW NET



GlbAvg= 6.24

-175 -131 -88 -44 0 44 88 131 175

Tuned TOA SW&LW NET

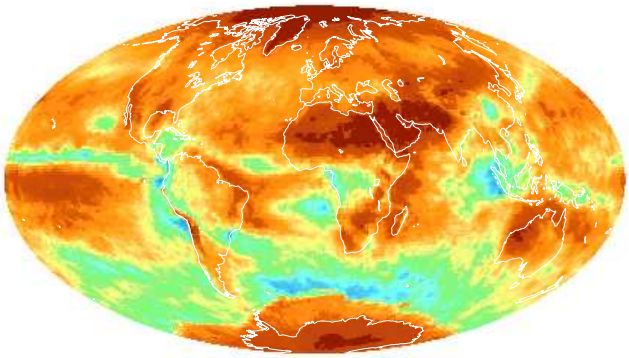


GlbAvg= 6.87

-175 -131 -88 -44 0 44 88 131 175

/CERES/tisa/Cathy/AVG_ZAVG_Val/2005/CER_AVG_Terra-FM1-MODIS_Beta4_000000.200510

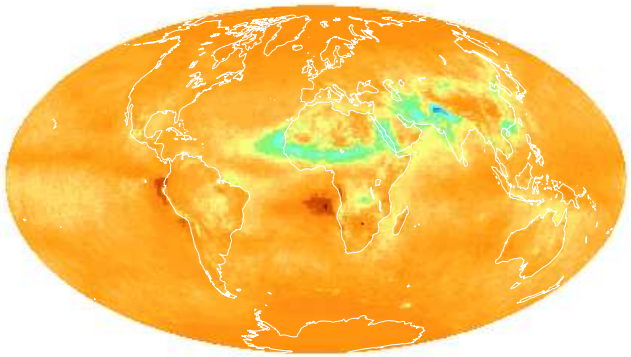
Cloud Forcing of SWTOA NET



GlbAvg= -46.21

-180 -157 -134 -111 -88 -64 -41 -18 5

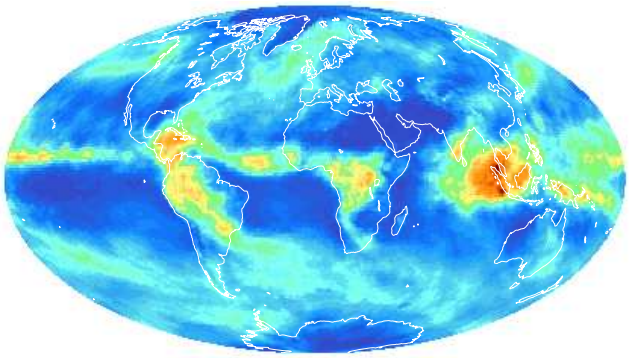
AllSky Aerosol Forcing of SWTOA NET



GlbAvg= -2.84

-26 -22 -18 -14 -10 -6 -2 2 6

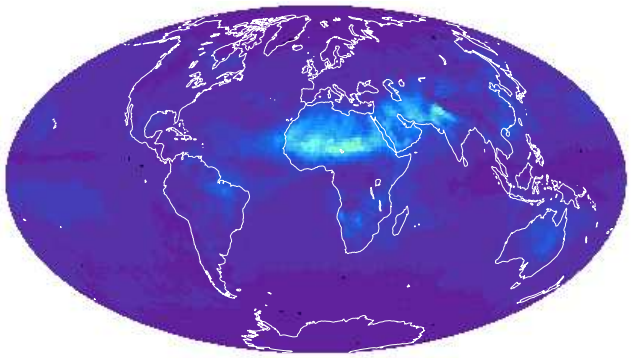
Cloud Forcing of LWTOA NET



GlbAvg= 24.85

-8.0 6.5 21.0 35.5 50.0 64.5 79.0 93.5 108.0

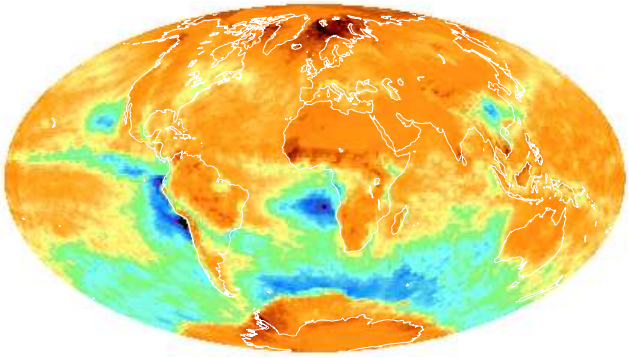
AllSky Aerosol Forcing of LWTOA NET



GlbAvg= 0.37

0.00 1.25 2.50 3.75 5.00 6.25 7.50 8.75 10.00

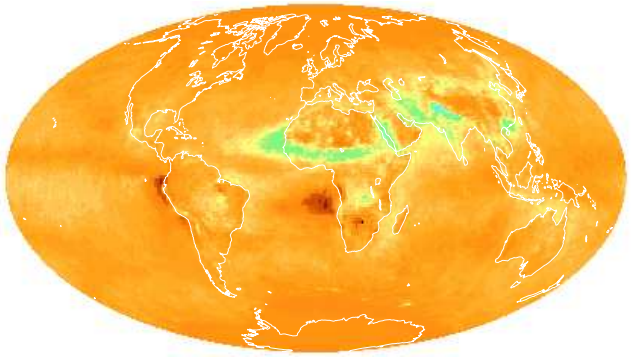
Cloud Forcing of TOA NET NET



GlbAvg= -21.36

-120.0 -101.2 -82.5 -63.8 -45.0 -26.2 -7.5 11.2 30.0

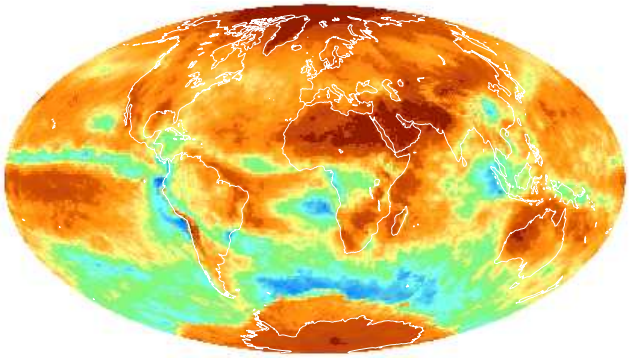
AllSky Aerosol Forcing of TOA NET NET



GlbAvg= -2.47

-26 -22 -18 -14 -10 -6 -2 2 6

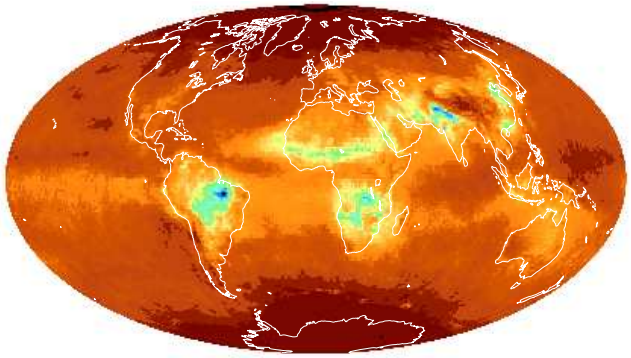
Cloud Forcing of SW SFC NET



GlbAvg= -49.64

-180 -157 -134 -111 -88 -64 -41 -18 5

Aerosol Forcing of SW SFC NET

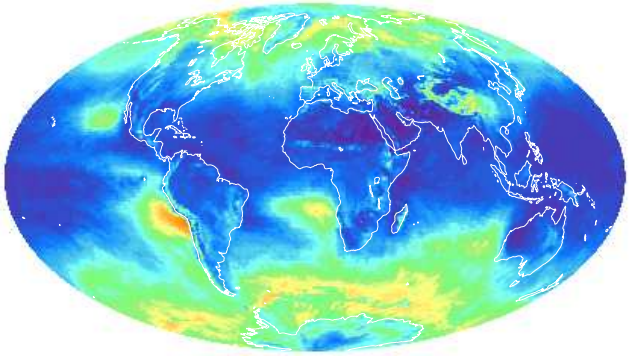


GlbAvg= -5.67

-48 -42 -36 -30 -24 -18 -12 -6 0

/CERES/tisa/Cathy/AVG_ZAVG_Val/2005/CER_AVG_Terra-FM1-MODIS_Beta4_000000.200510

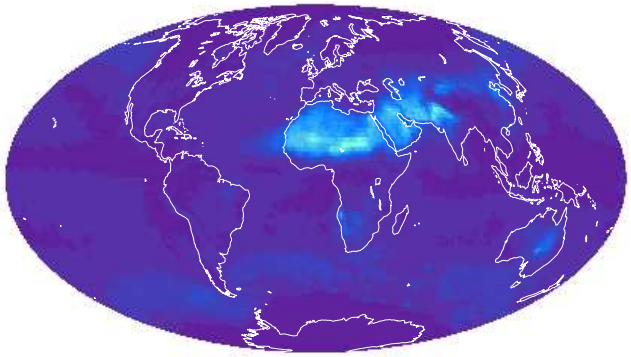
Cloud Forcing of LW SFC NET



GlbAvg= 27.37

0.0 12.5 25.0 37.5 50.0 62.5 75.0 87.5 100.0

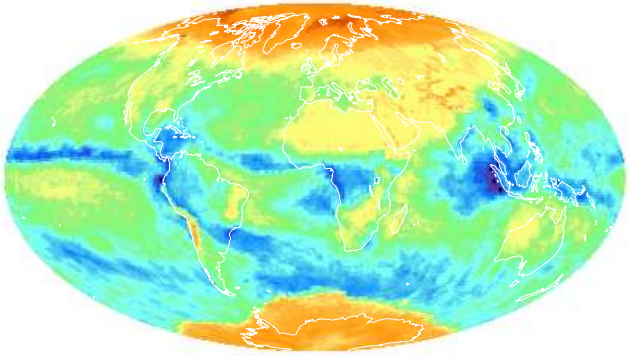
Aerosol Forcing of LW SFC NET



GlbAvg= 1.10

0 4 8 12 16 20 24 28 32

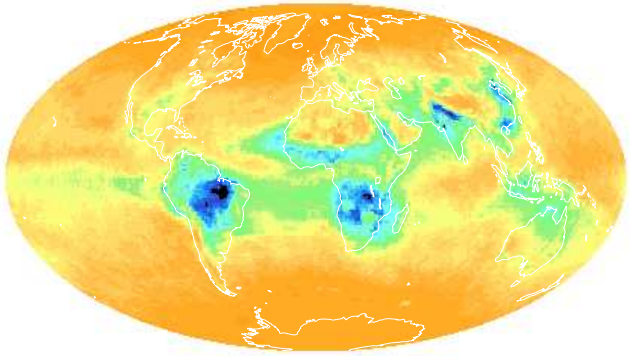
Cloud Forcing of SFC NET NET



GlbAvg= -22.27

-120 -95 -70 -45 -20 5 30 55 80

Aerosol Forcing of SFC NET NET



GlbAvg= -4.58

-30 -25 -20 -15 -10 -5 0 5 10