



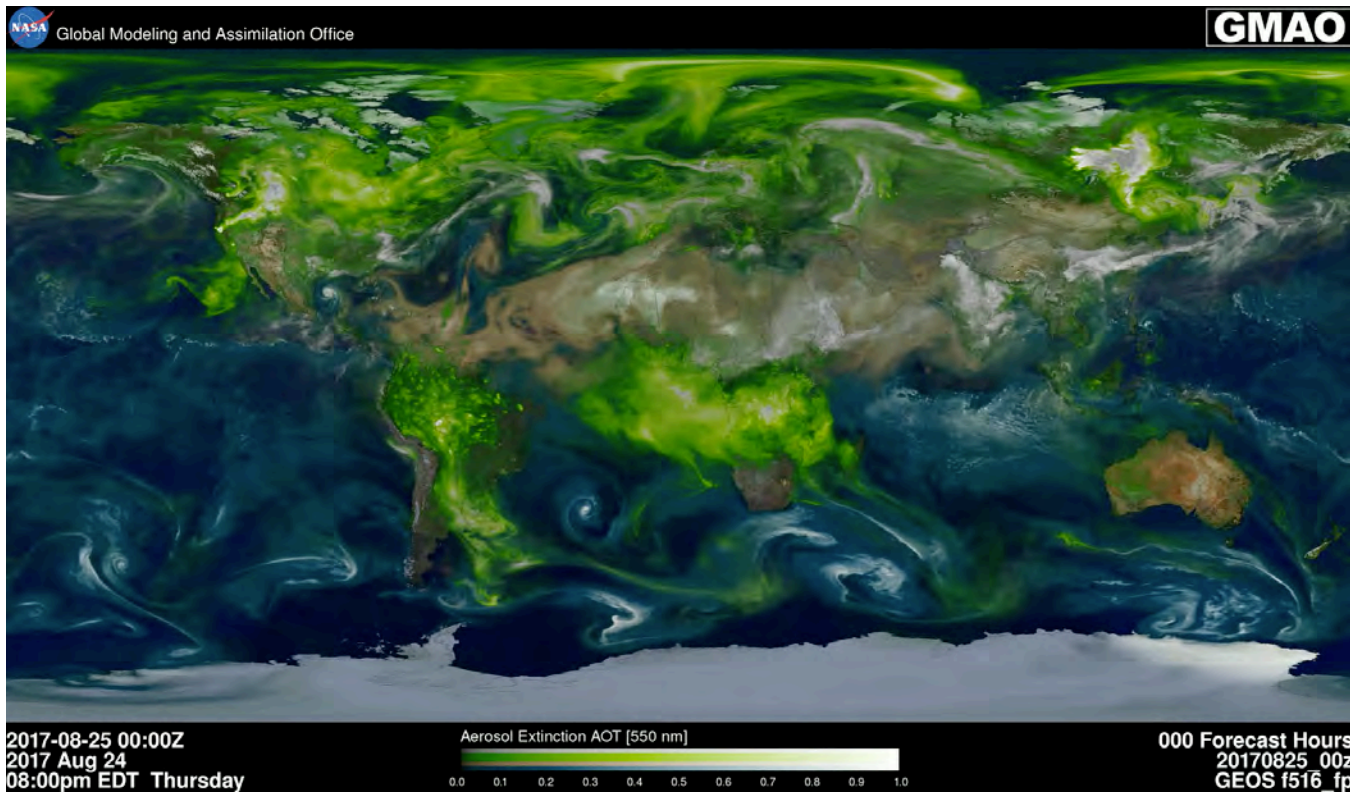
ORACLES Forecast Briefing

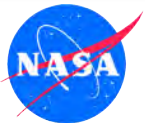
Aerosols

Saturday, 26 August 2017

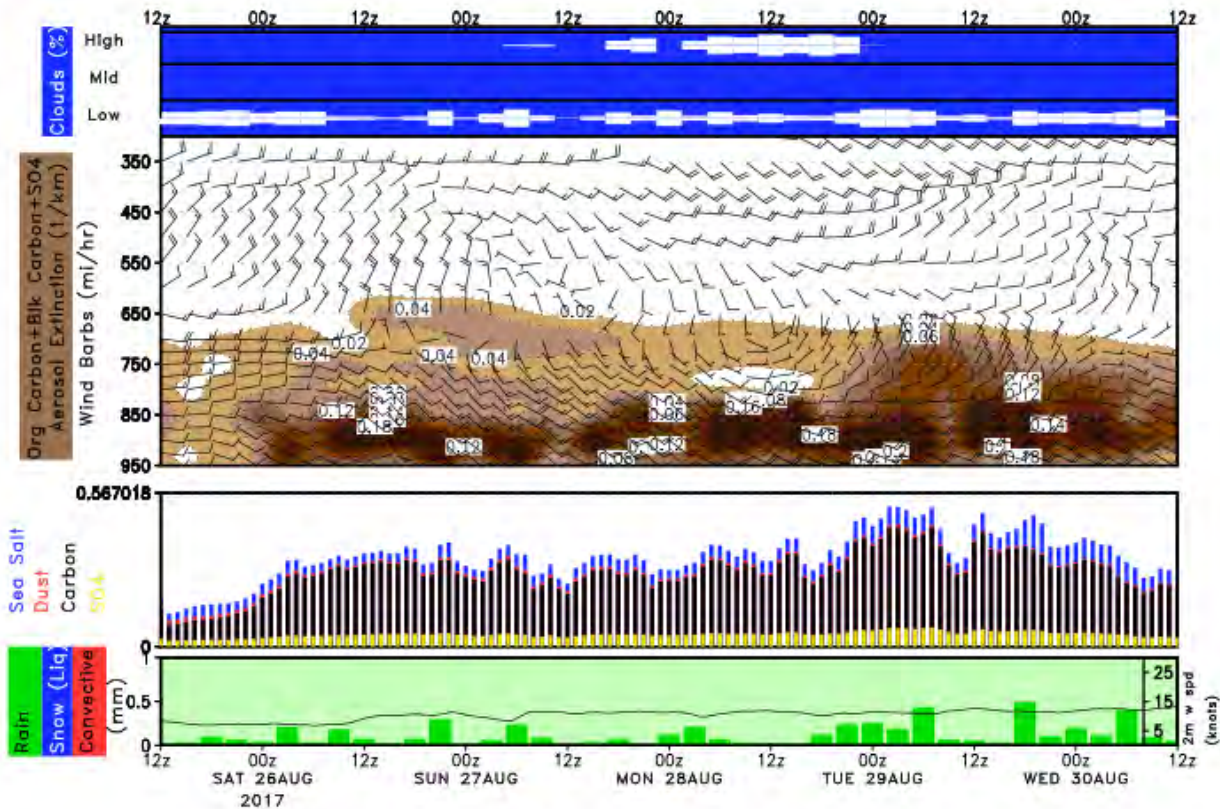


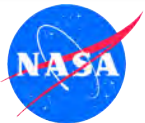
The Aerosol Week



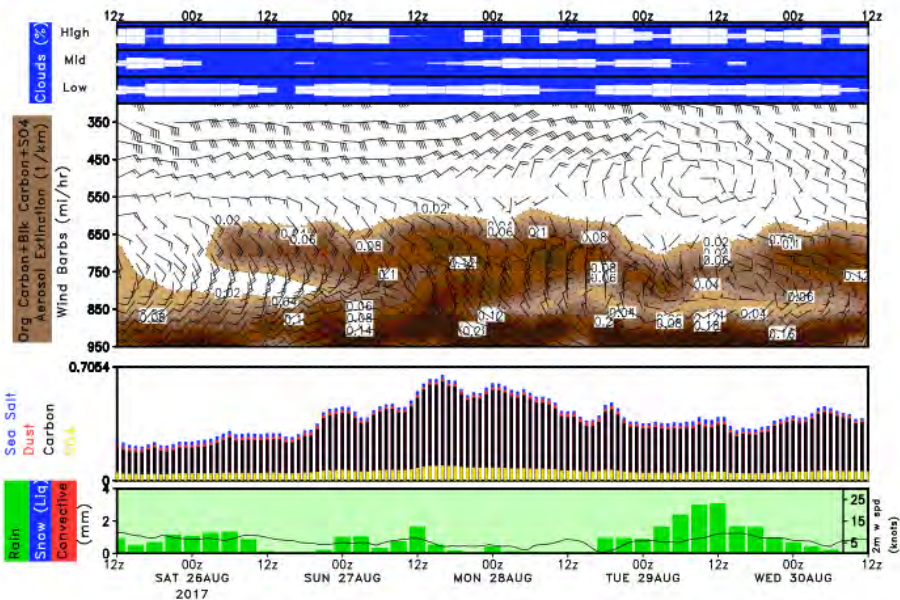


Ascension (OC+BC+S04)

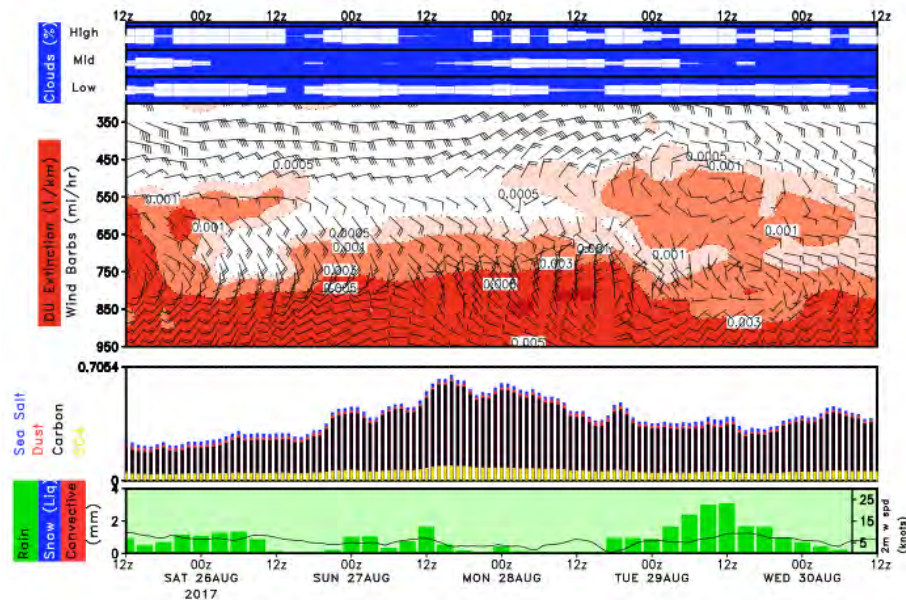




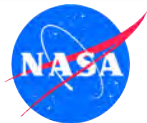
São Tomé (OC+BC+SO4 & Dust)



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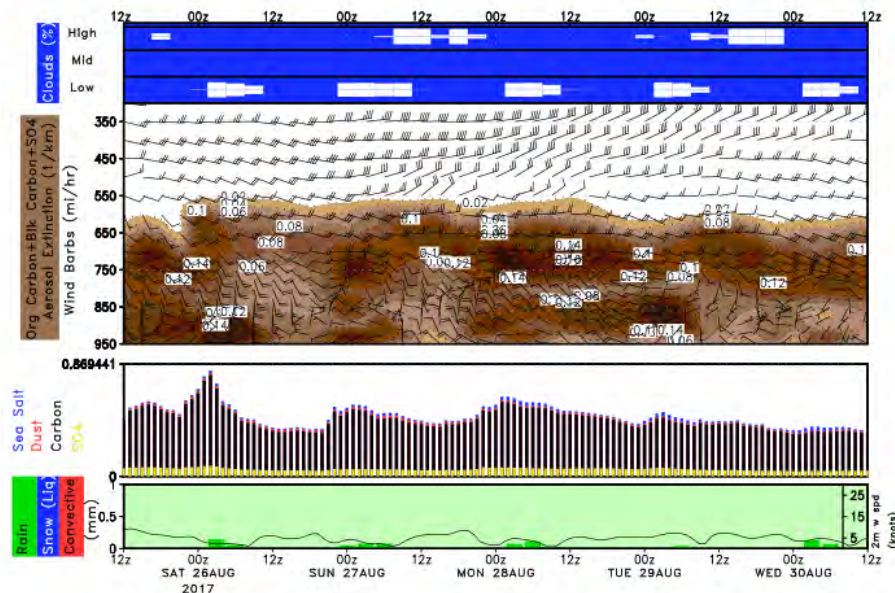
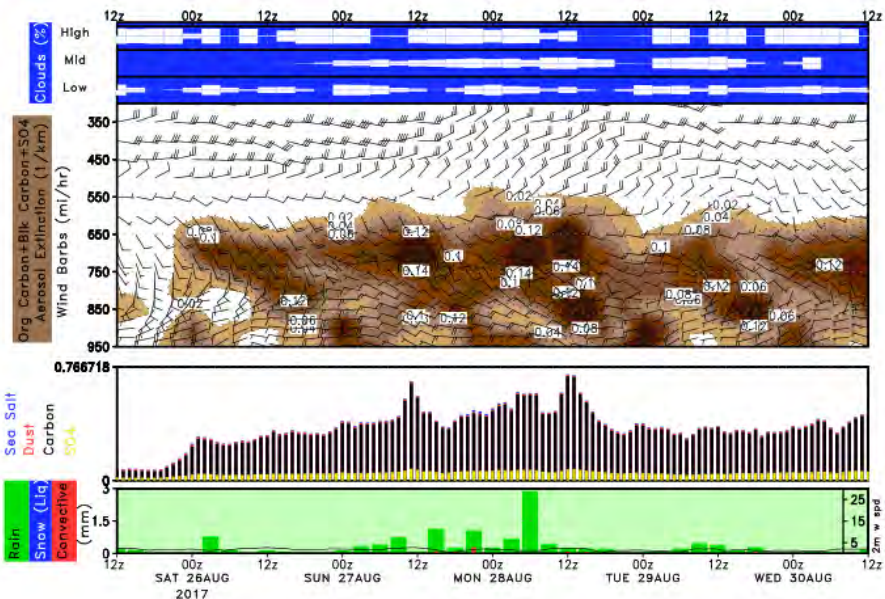


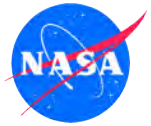
LAT = 0.3 , LON = 6.6, Location = ORACLES_Sao_Tome_e_Principe, Fcst_init = 20170825



Lope Gabon 0.2S

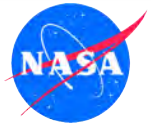
Luanda 8.8S





Fly Day

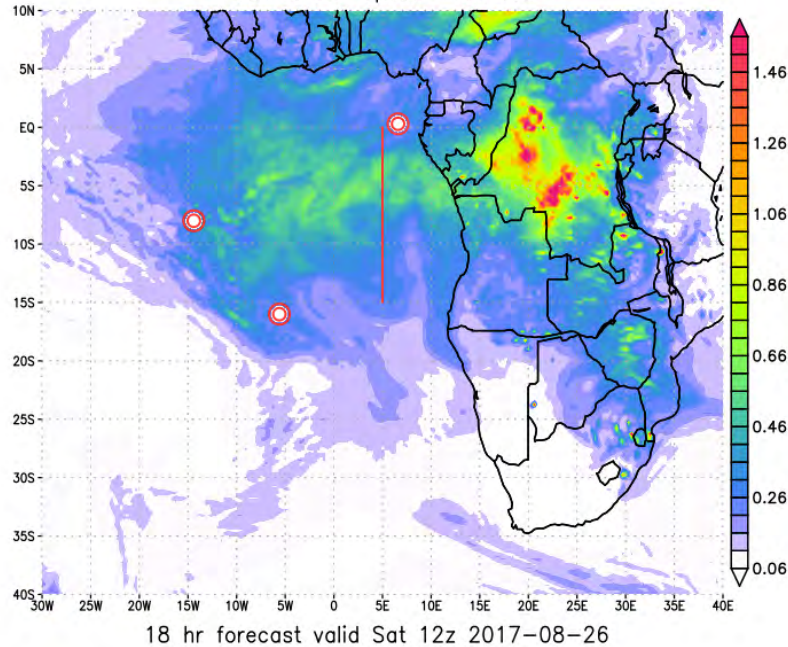
SATURDAY, 26 AUGUST 2017



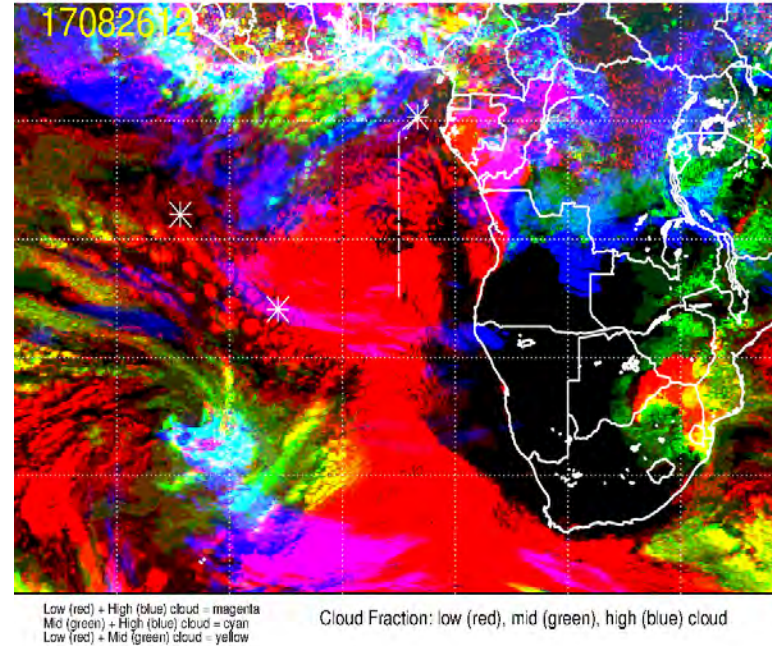
Saturday, 26 Aug 2017 12Z

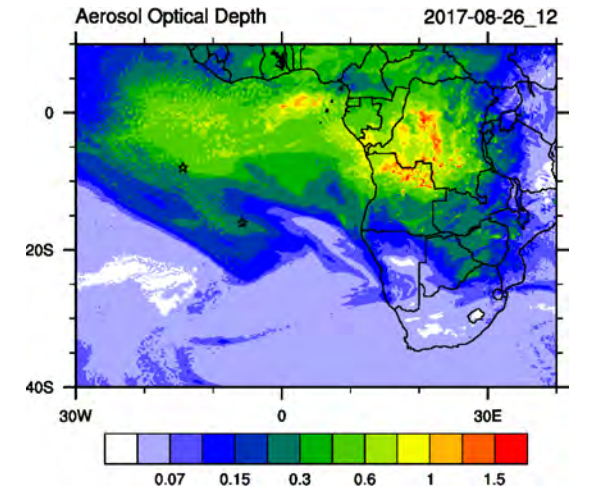
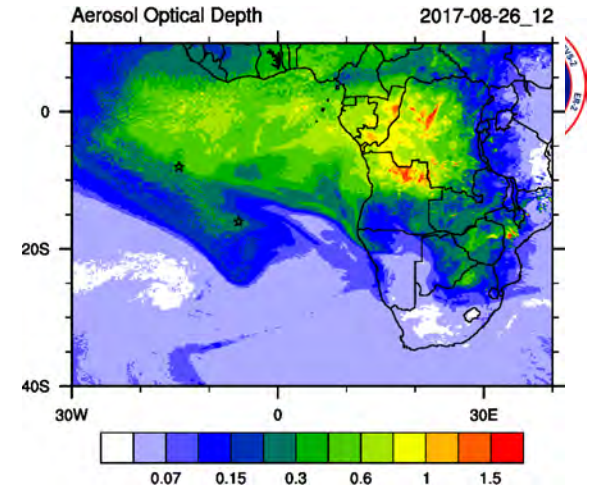
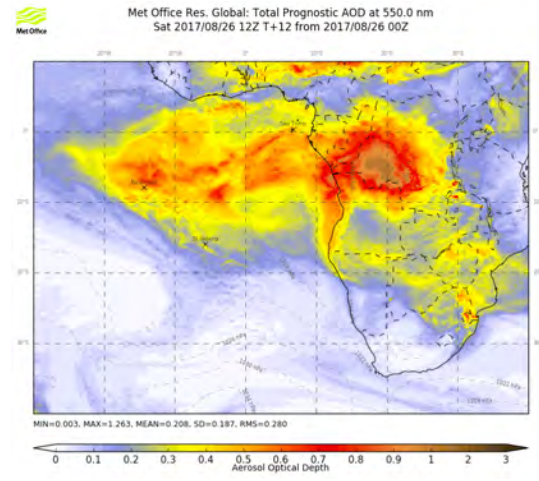
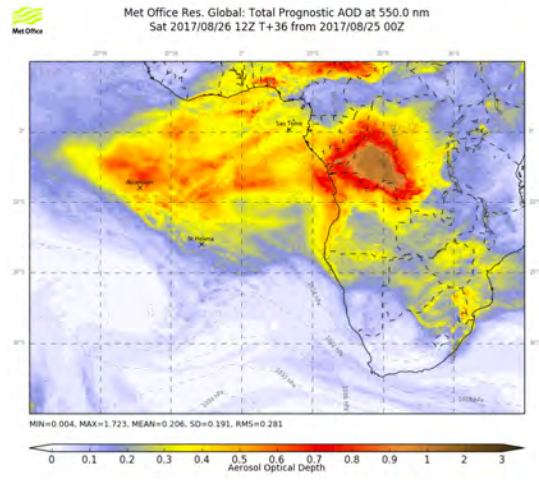
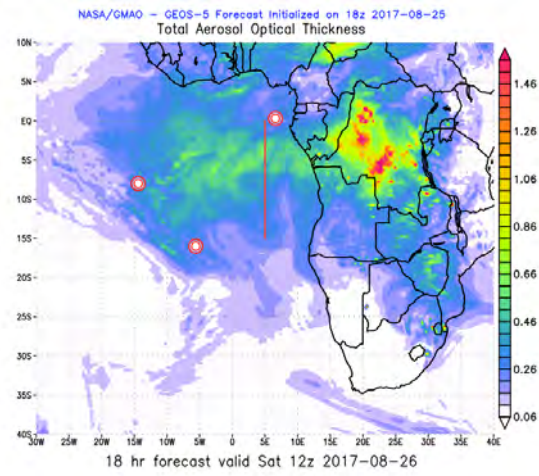
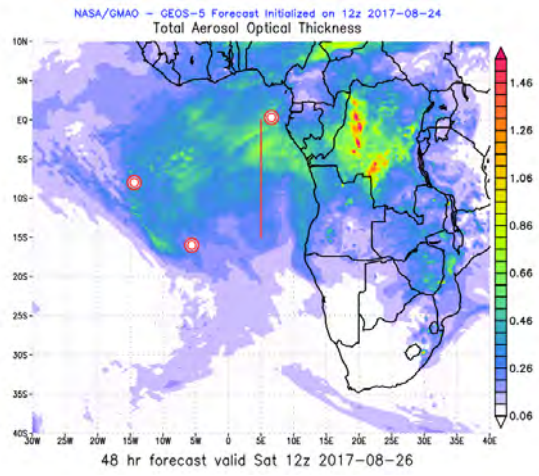


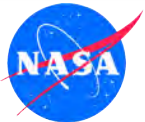
NASA/GMAO - GEOS-5 Forecast Initialized on 18z 2017-08-25
Total Aerosol Optical Thickness



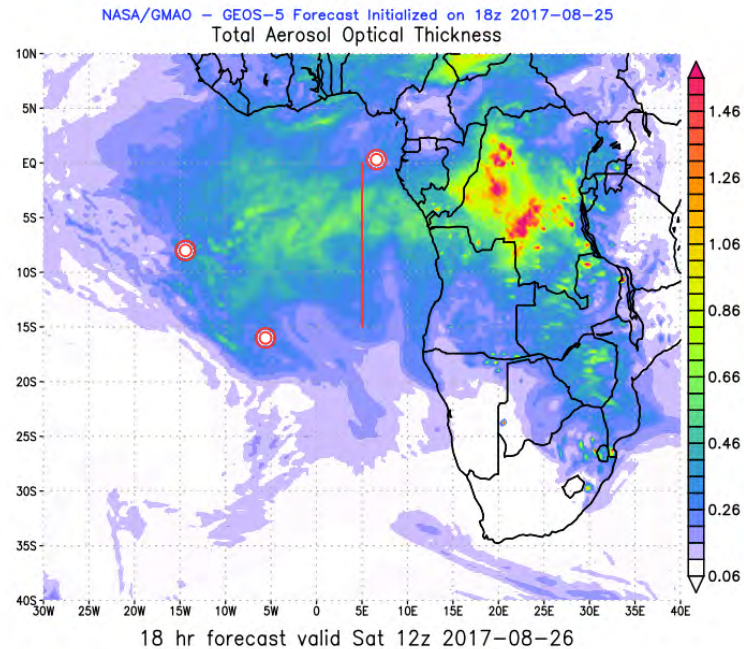
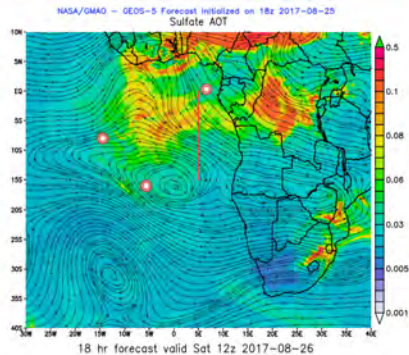
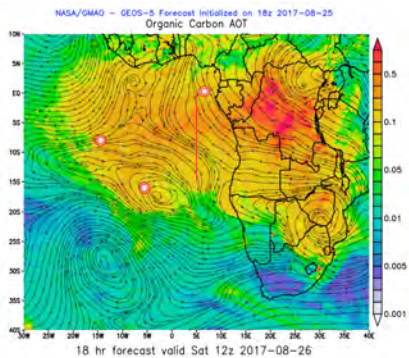
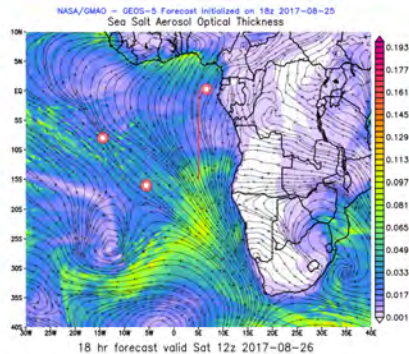
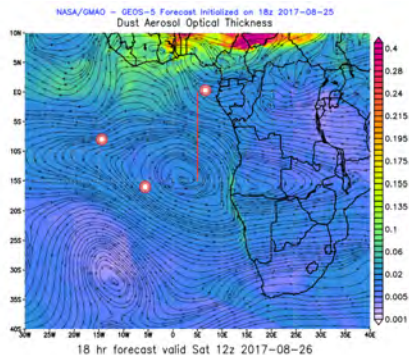
17082612, 024 hour forecast for Cloud Fraction (low, mid, and high cloud) -- ECMWF

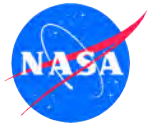






Saturday, 26 Aug 2017 12Z

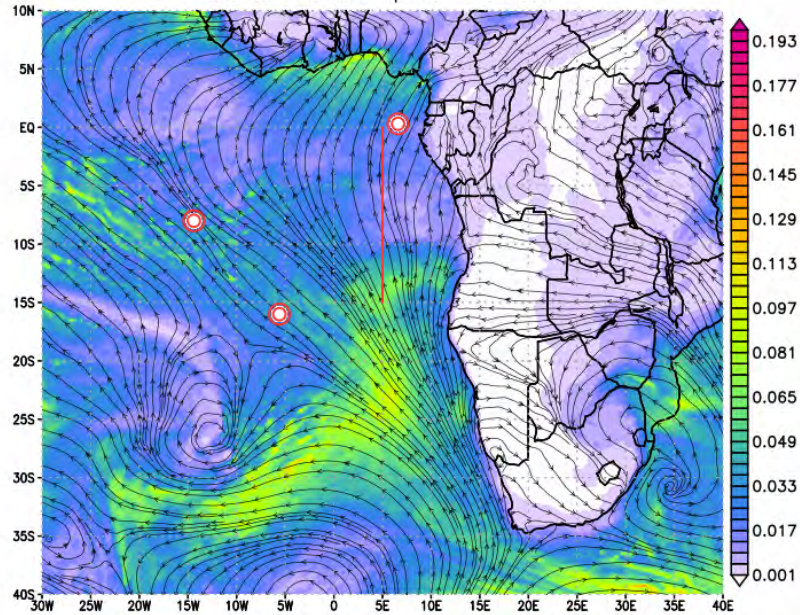




Saturday, 26 Aug 2017 12Z

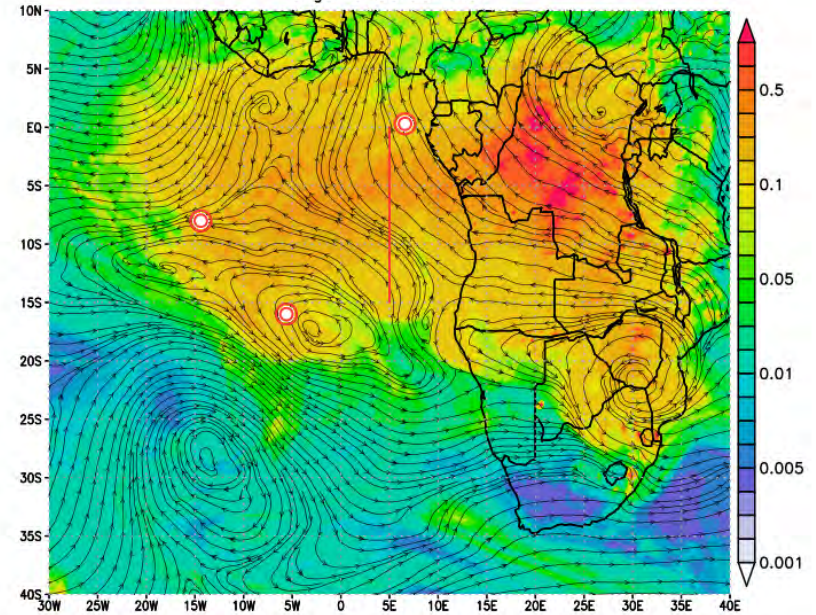


NASA/GMAO – GEOS-5 Forecast Initialized on 18z 2017-08-25
Sea Salt Aerosol Optical Thickness

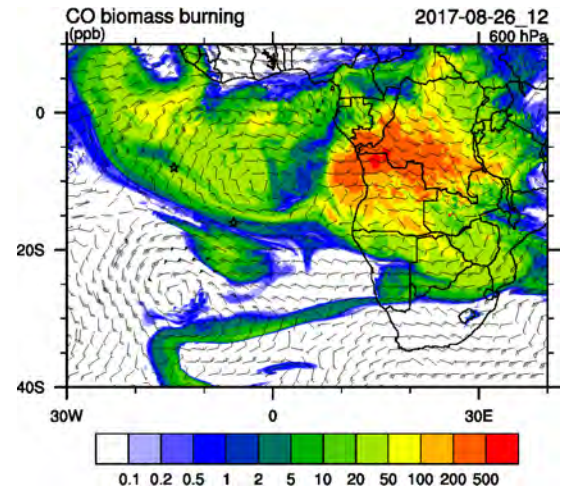
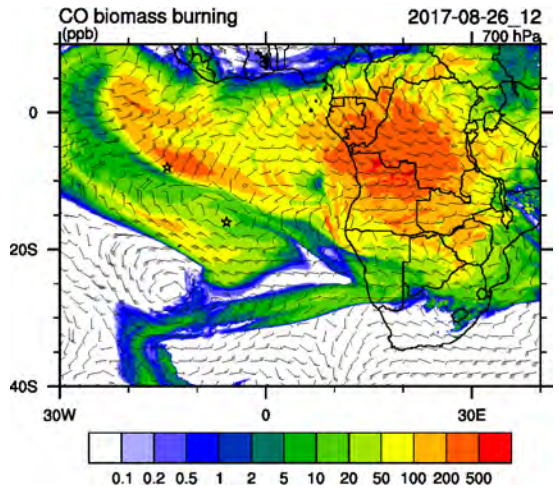
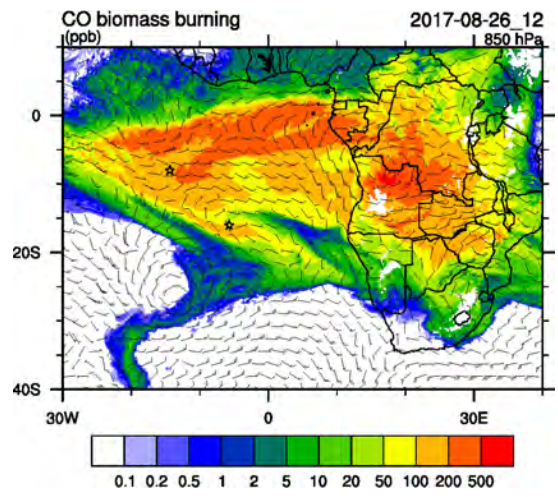
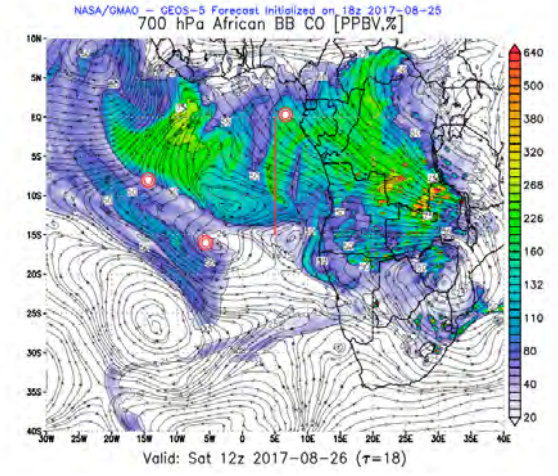
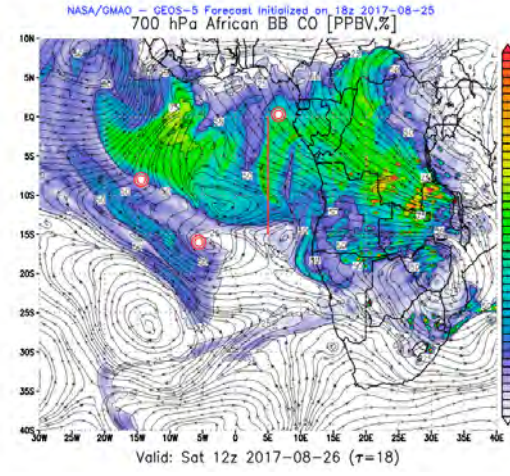
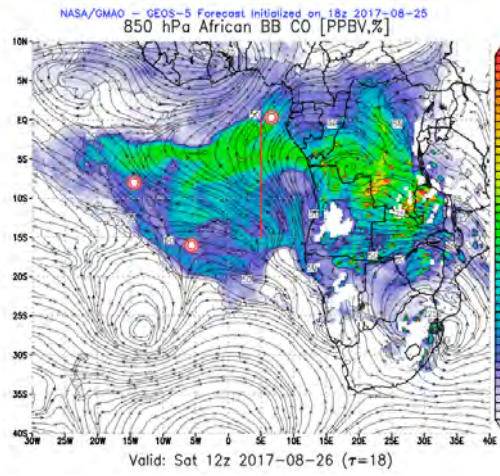


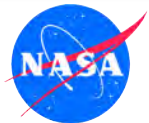
18 hr forecast valid Sat 12z 2017-08-26

NASA/GMAO – GEOS-5 Forecast Initialized on 18z 2017-08-25
Organic Carbon AOT

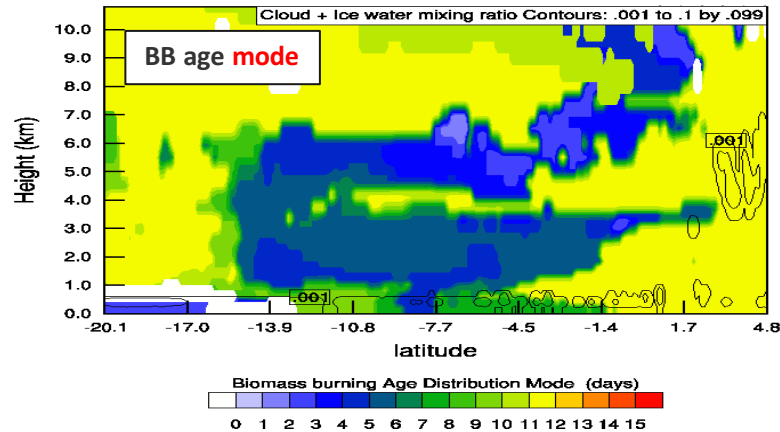
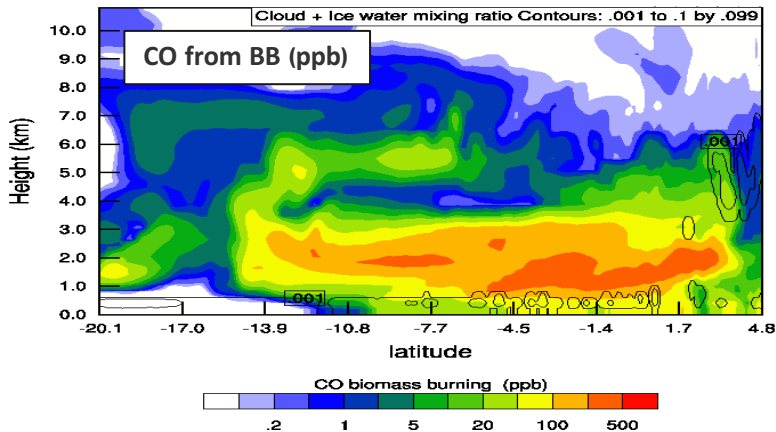
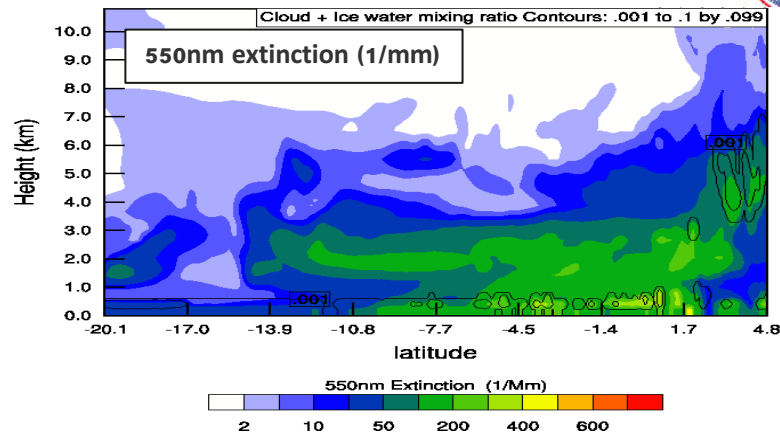
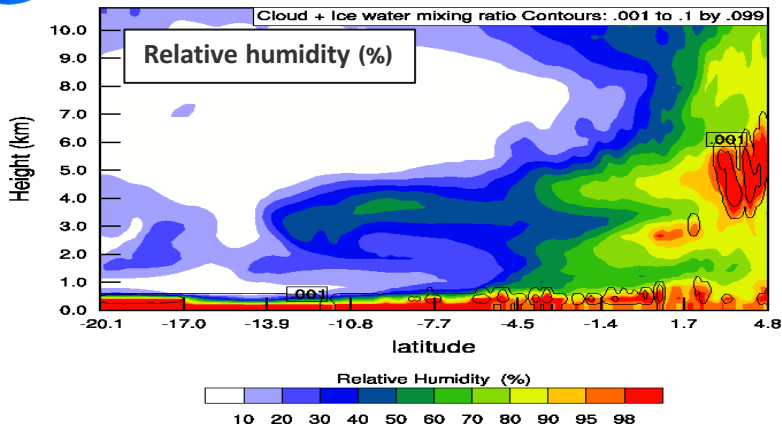


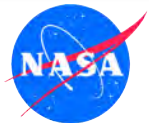
18 hr forecast valid Sat 12z 2017-08-26



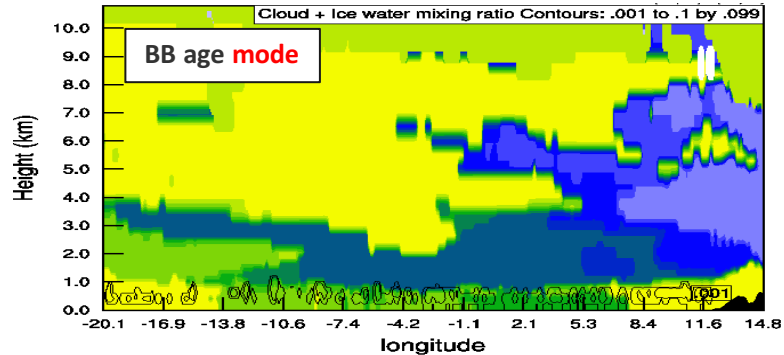
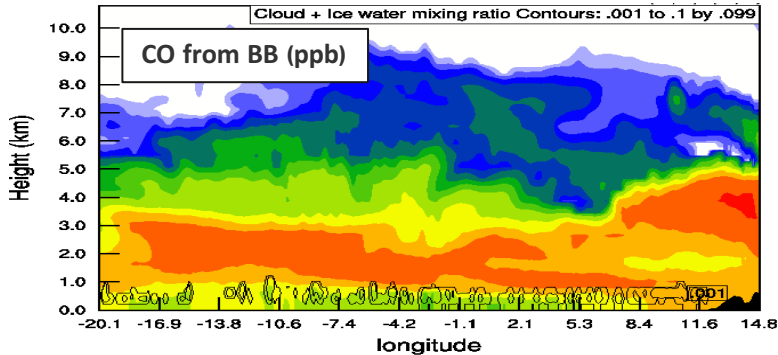
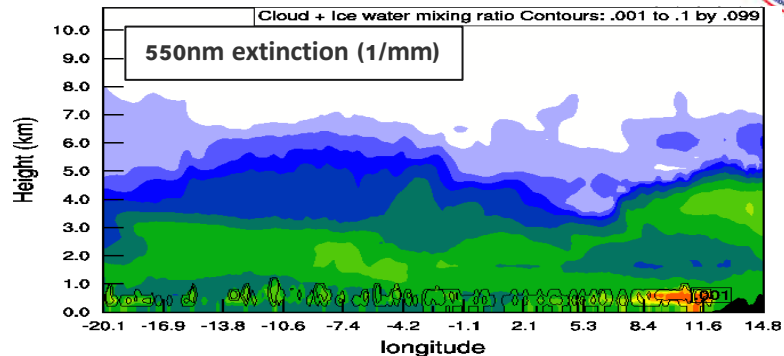
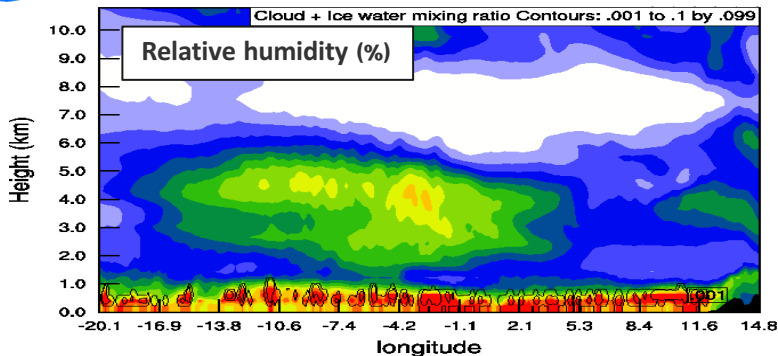


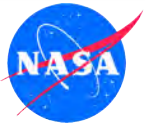
Cross sections at 5 E – Sat 26 Aug 15 Z





Cross sections at 5 S – Sat 26 Aug 15 Z



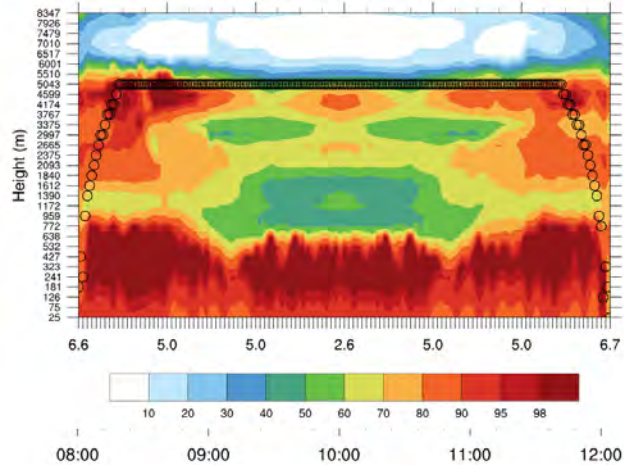


Curtains along flight track



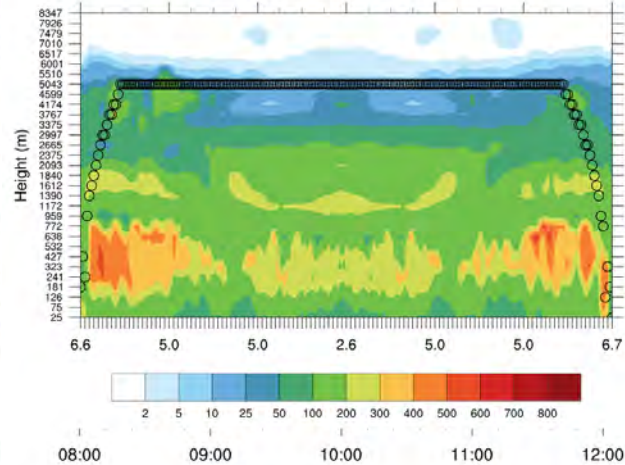
Relative humidity (%)

Flight 20170826-rh init20170825



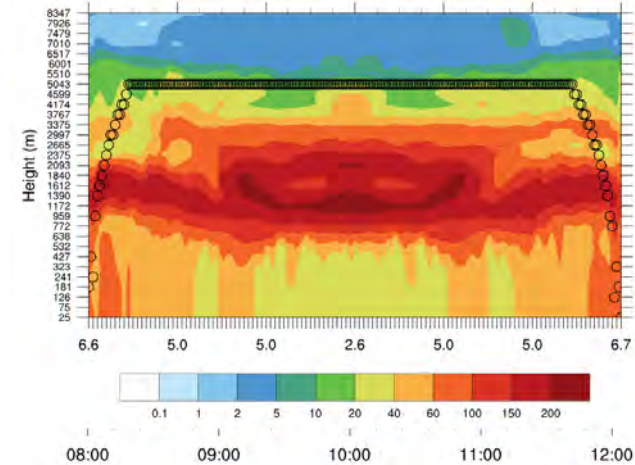
550nm Extinction (1/mm)

Flight 20170826-ext init20170825



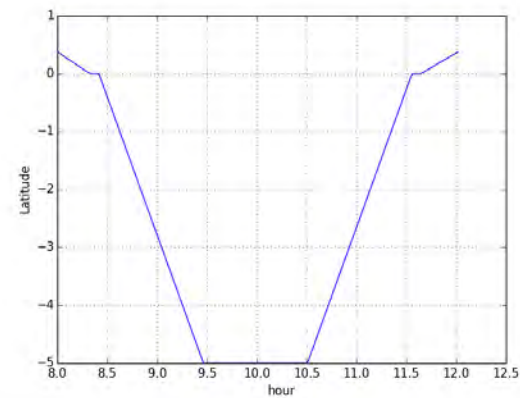
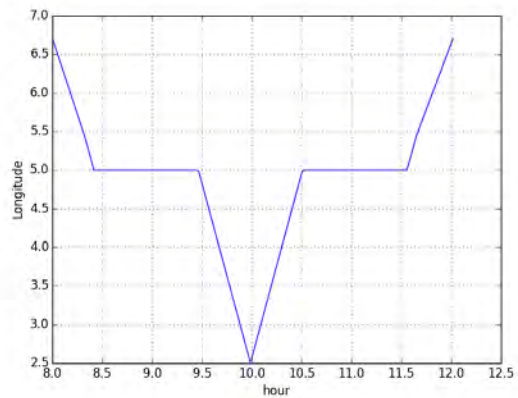
PM2.5 (ug/kg)

Flight 20170826-pm25 init20170825

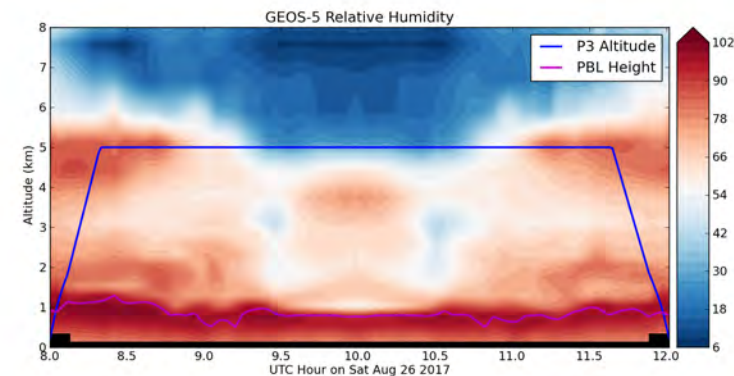
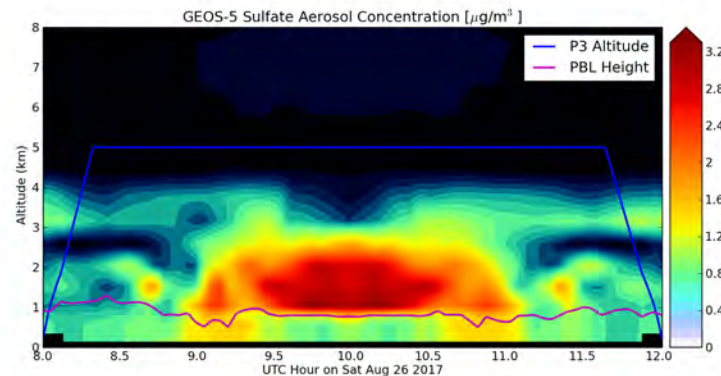
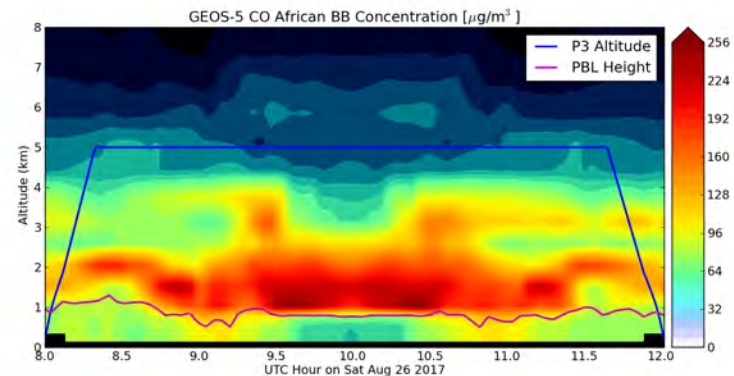
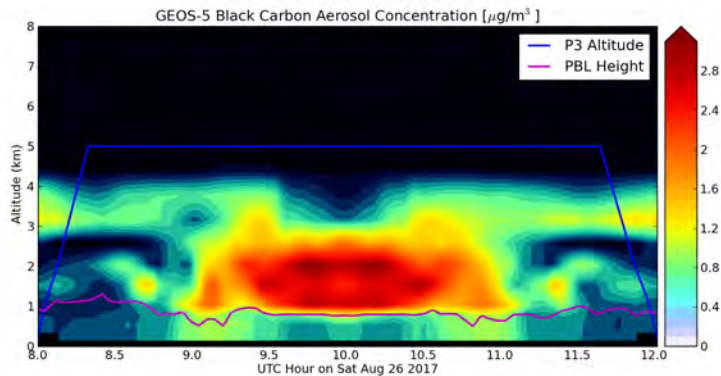




Radiation Flight (Simplified)

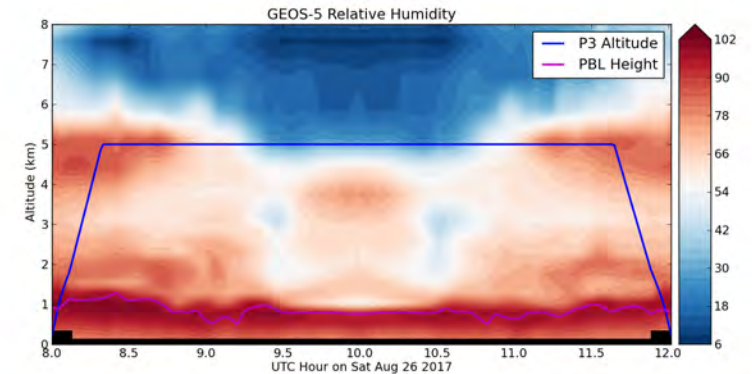
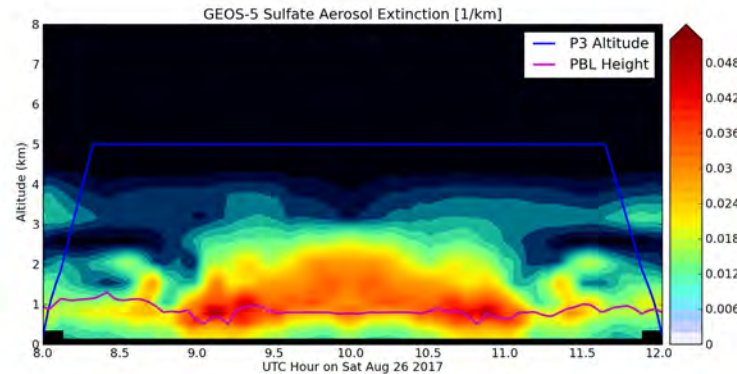
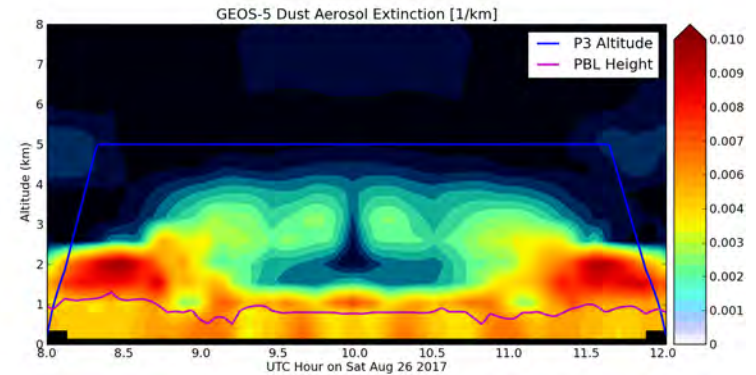
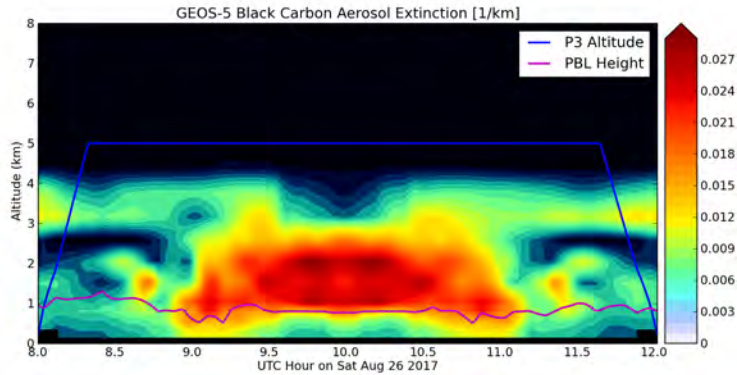


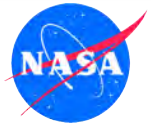
Sat 26 August 2017 (Concentration)





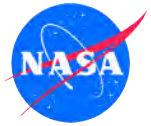
Sat 26 August 2017 (Extinction)





No Fly Day

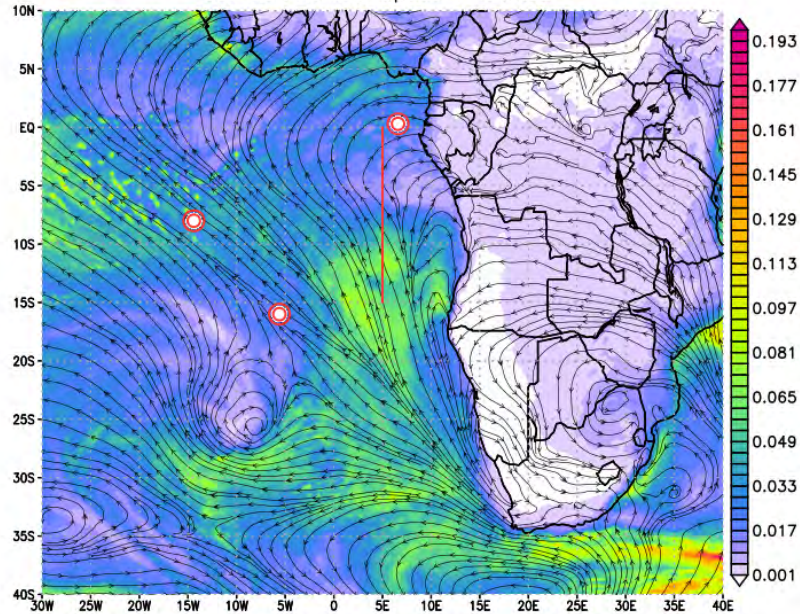
SUNDAY, 27 AUGUST 2017



Sunday 27 August 2017 12Z

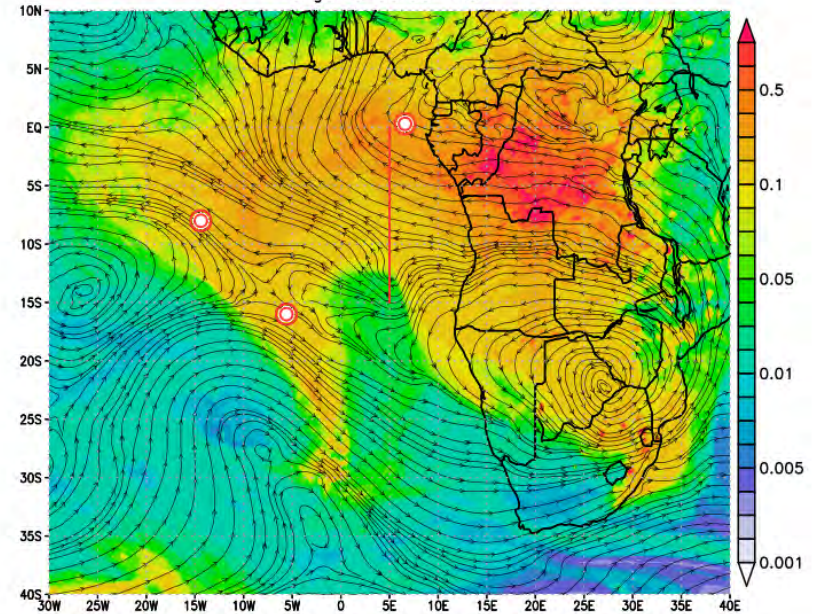


NASA/GMAO - GEOS-5 Forecast Initialized on 12z 2017-08-25
Sea Salt Aerosol Optical Thickness

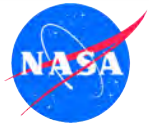


48 hr forecast valid Sun 12z 2017-08-27

NASA/GMAO - GEOS-5 Forecast Initialized on 12z 2017-08-25
Organic Carbon AOT



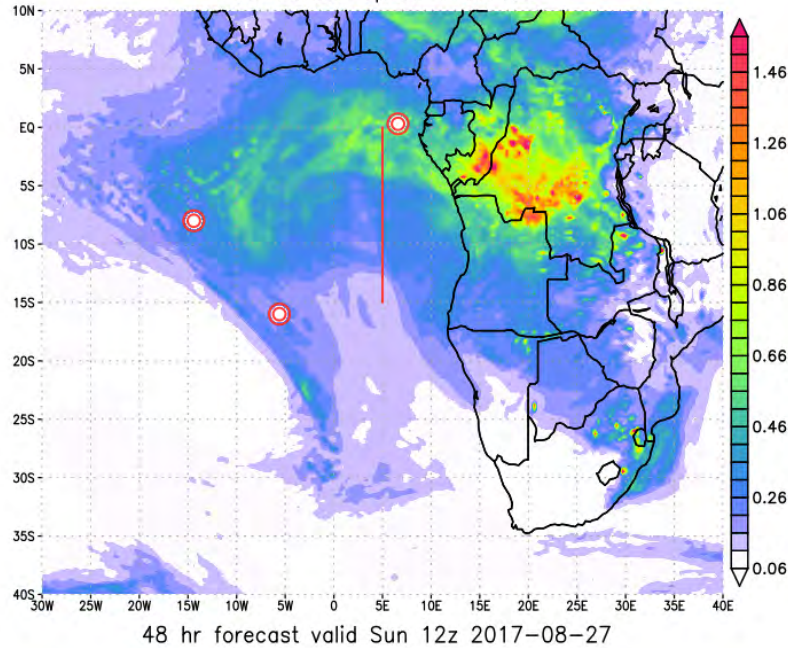
48 hr forecast valid Sun 12z 2017-08-27



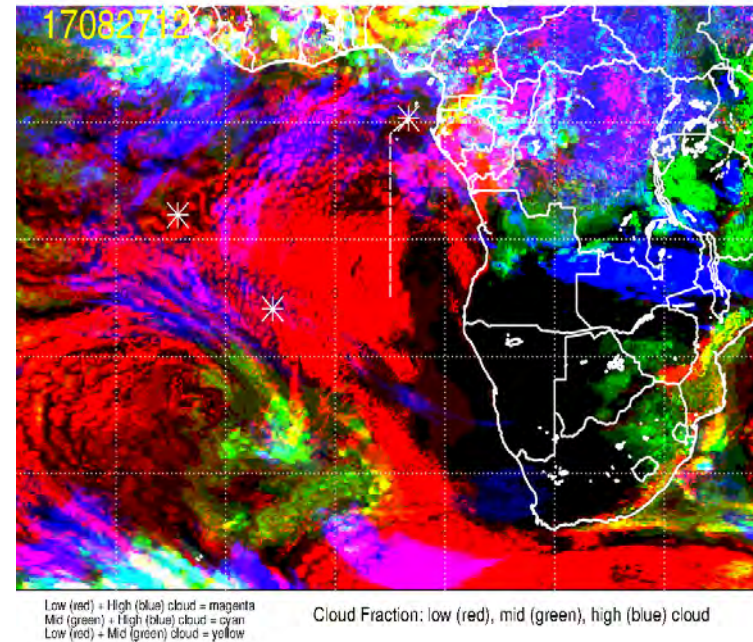
Sunday 27 August 2017 12Z

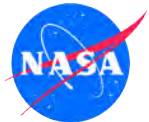


NASA/GMAO - GEOS-5 Forecast Initialized on 12z 2017-08-25
Total Aerosol Optical Thickness

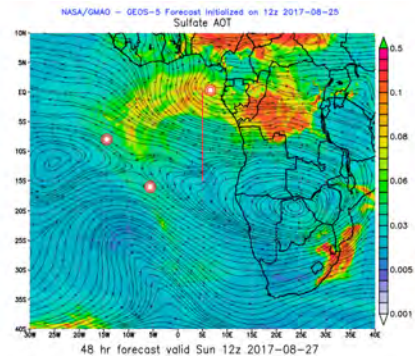
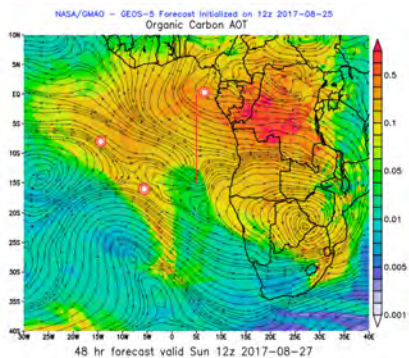
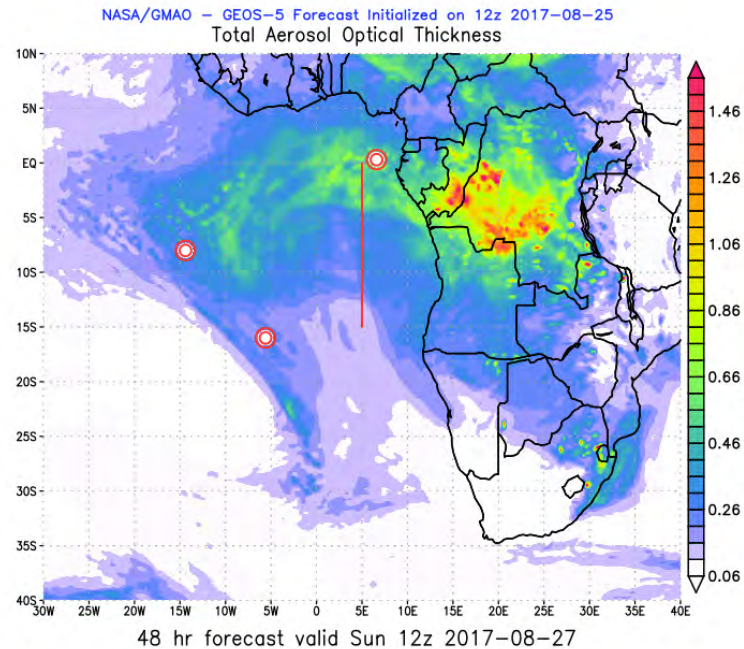
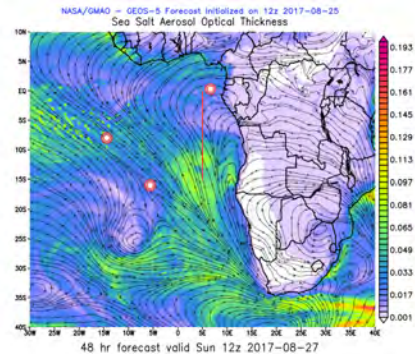
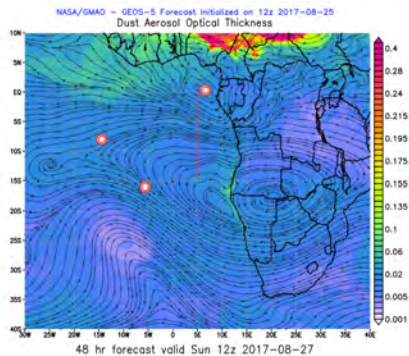


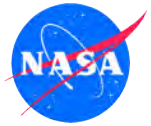
17082712, 048 hour forecast for Cloud Fraction (low, mid, and high cloud) - ECMWF





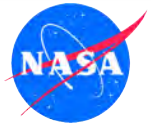
Sunday 27 August 2017 12Z





Fly Day

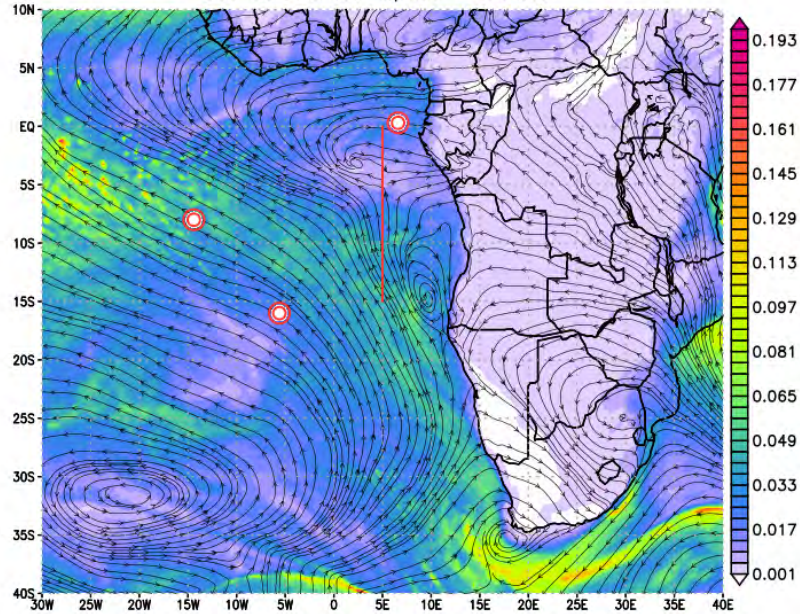
MONDAY, 28 AUGUST 2017



Monday 28 August 2017 12Z

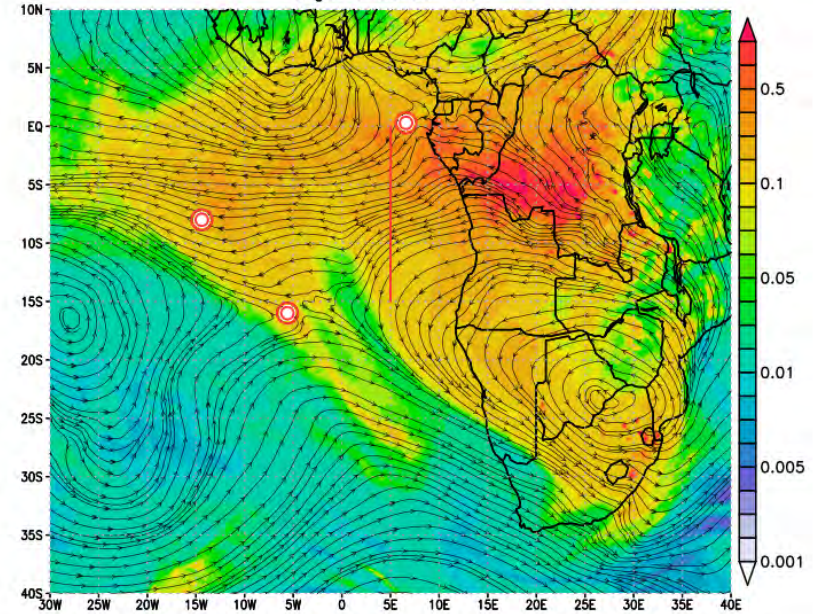


NASA/GMAO – GEOS-5 Forecast Initialized on 12z 2017-08-25
Sea Salt Aerosol Optical Thickness

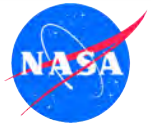


72 hr forecast valid Mon 12z 2017-08-28

NASA/GMAO – GEOS-5 Forecast Initialized on 12z 2017-08-25
Organic Carbon AOT



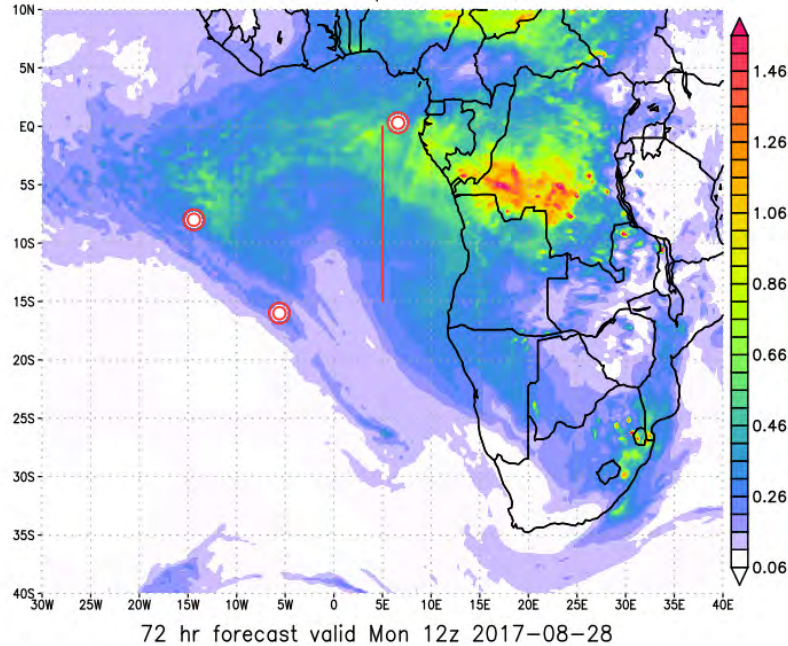
72 hr forecast valid Mon 12z 2017-08-28



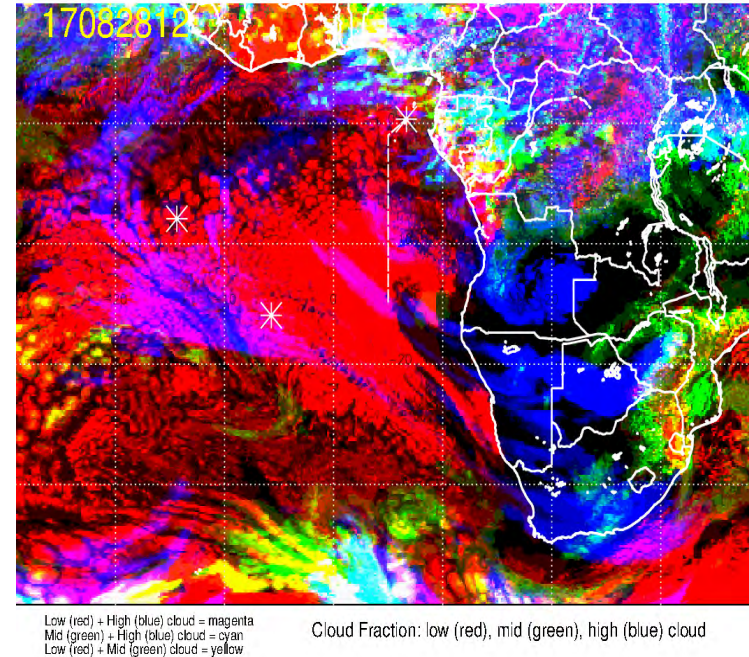
Monday 28 August 2017 12Z

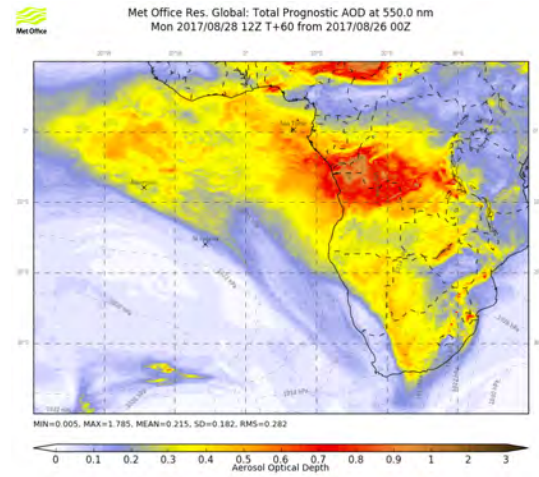
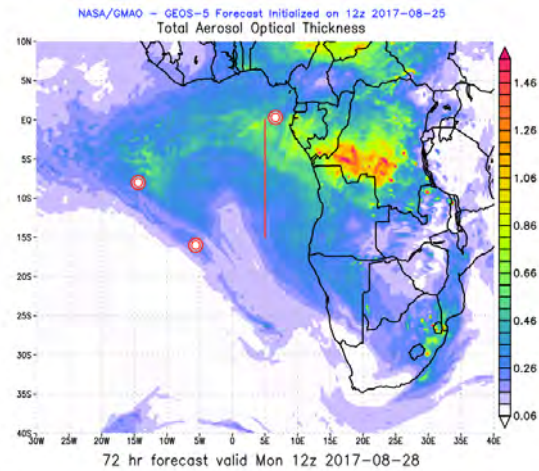
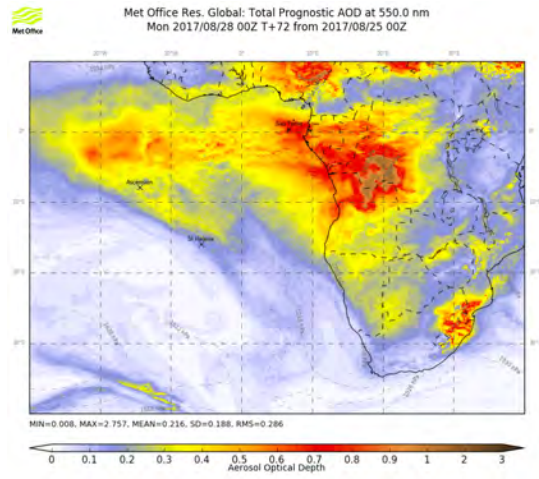
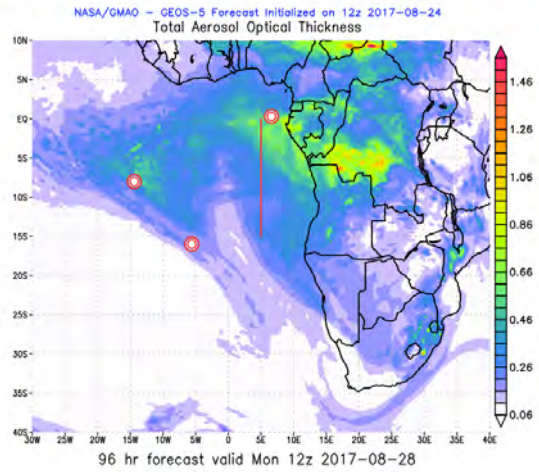


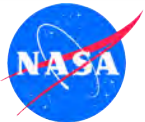
NASA/GMAO - GEOS-5 Forecast Initialized on 12z 2017-08-25
Total Aerosol Optical Thickness



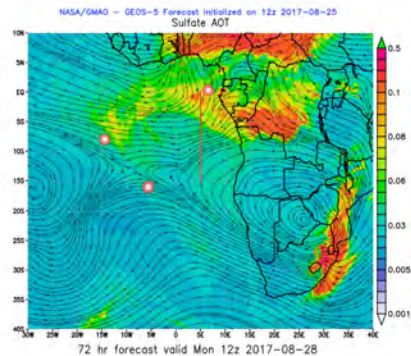
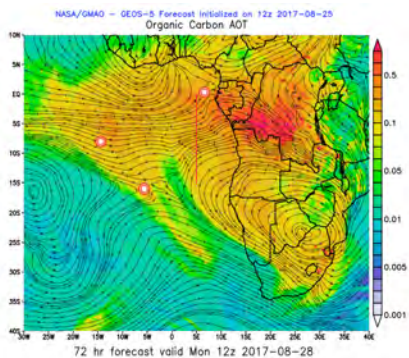
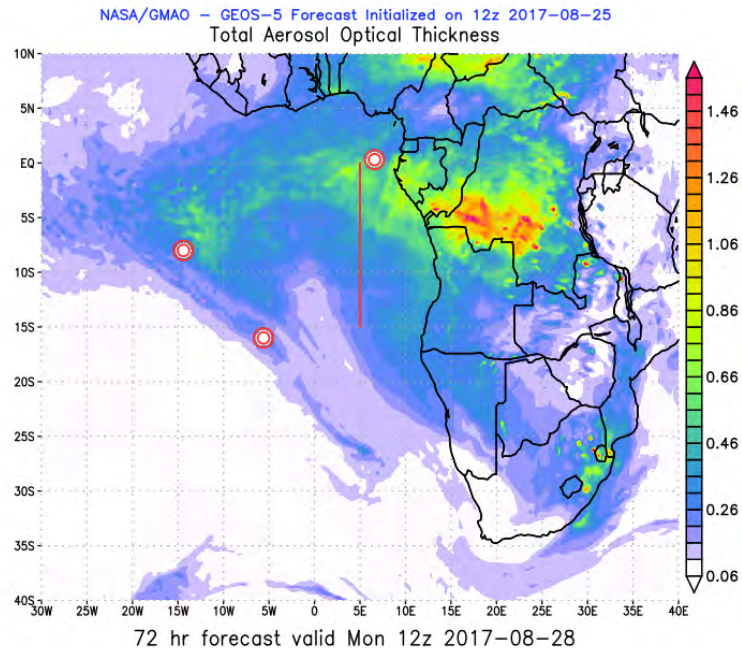
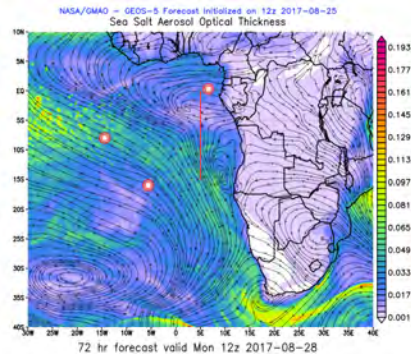
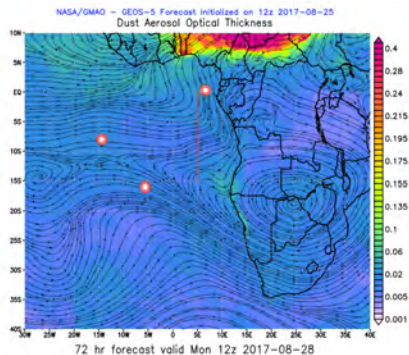
17082812, 072 hour forecast for Cloud Fraction (low, mid, and high cloud) -- ECMWF

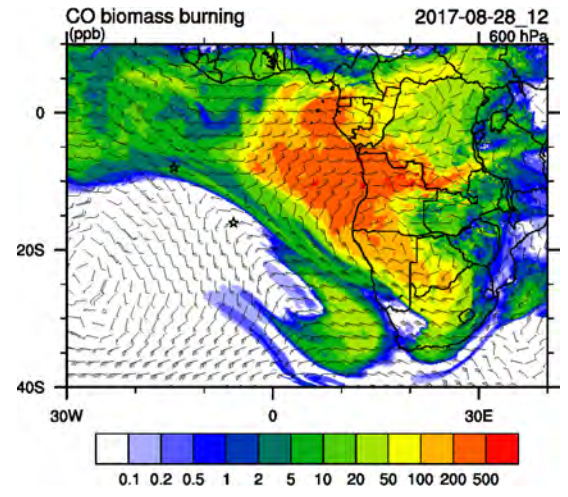
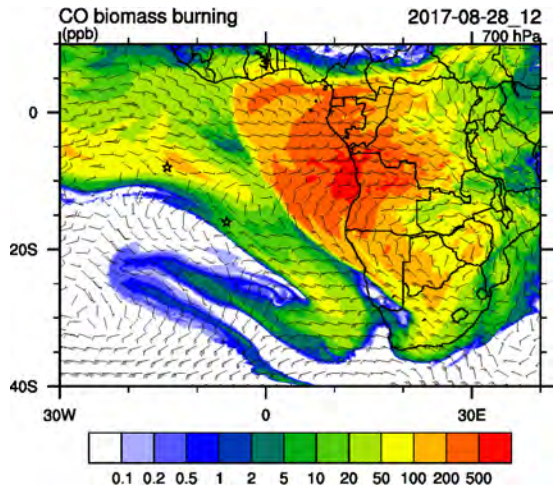
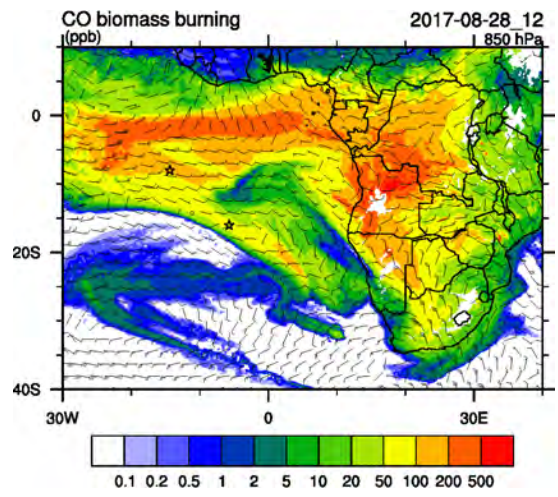
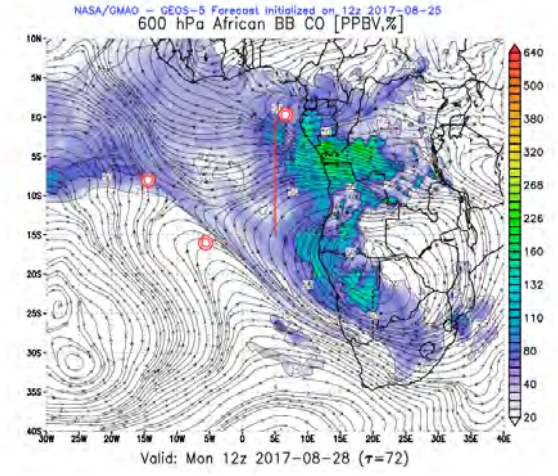
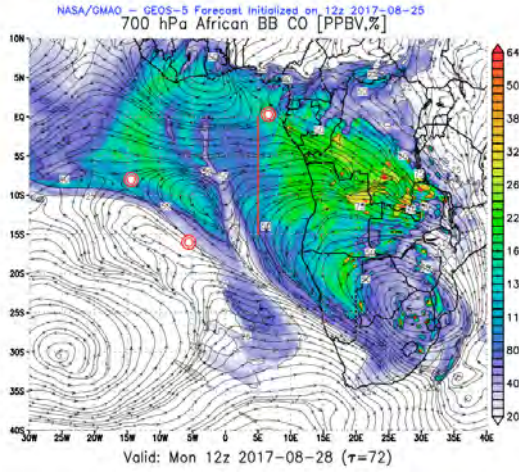
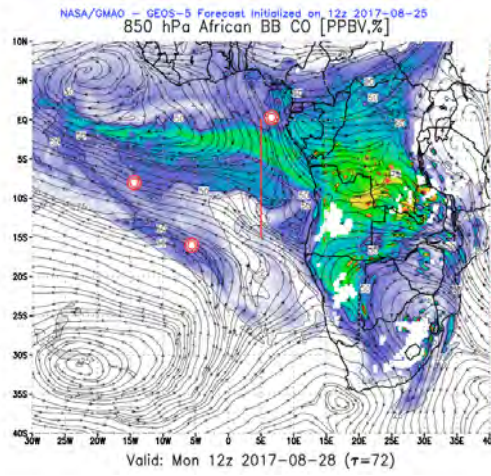


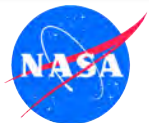




Monday 28 August 2017 12Z







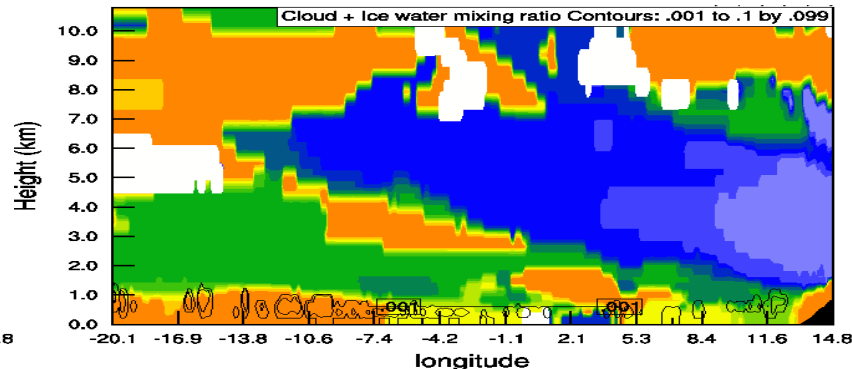
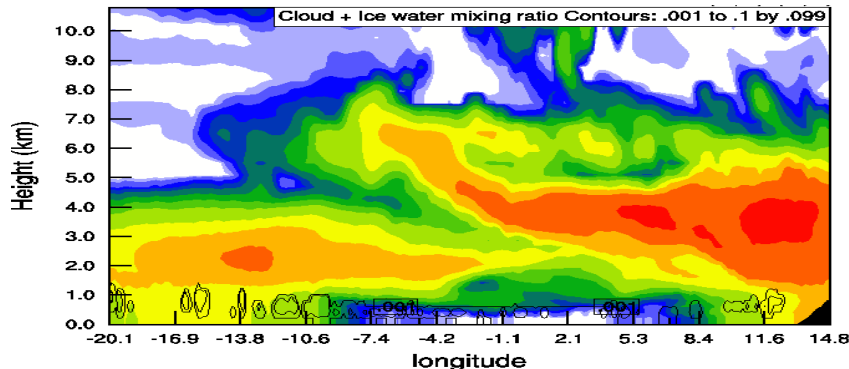
Cross sections – Mon 28 Aug 12 Z



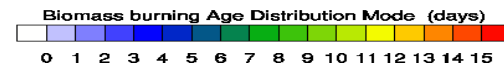
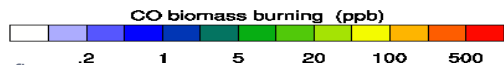
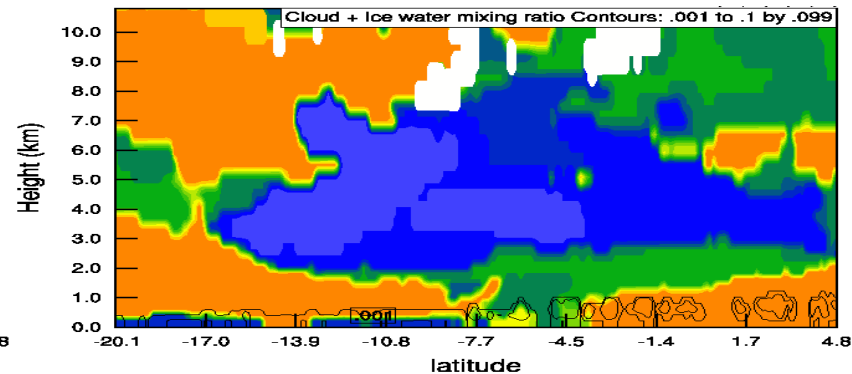
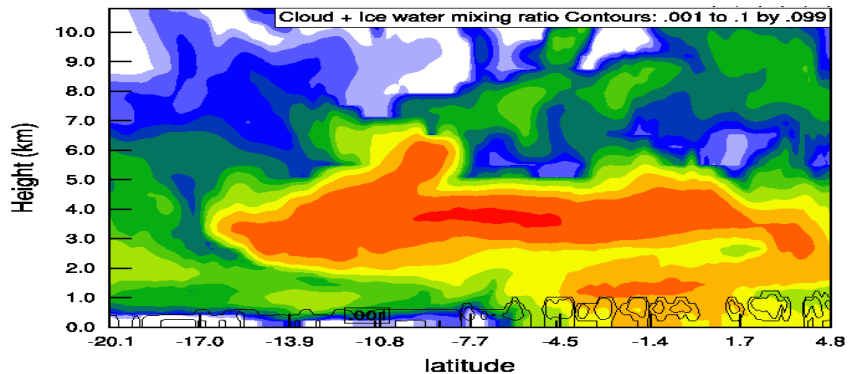
CO from BB (ppb)

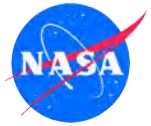
BB age mode (days)

8 S



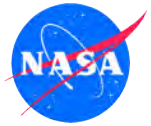
5 E





Fly Day (TBD)

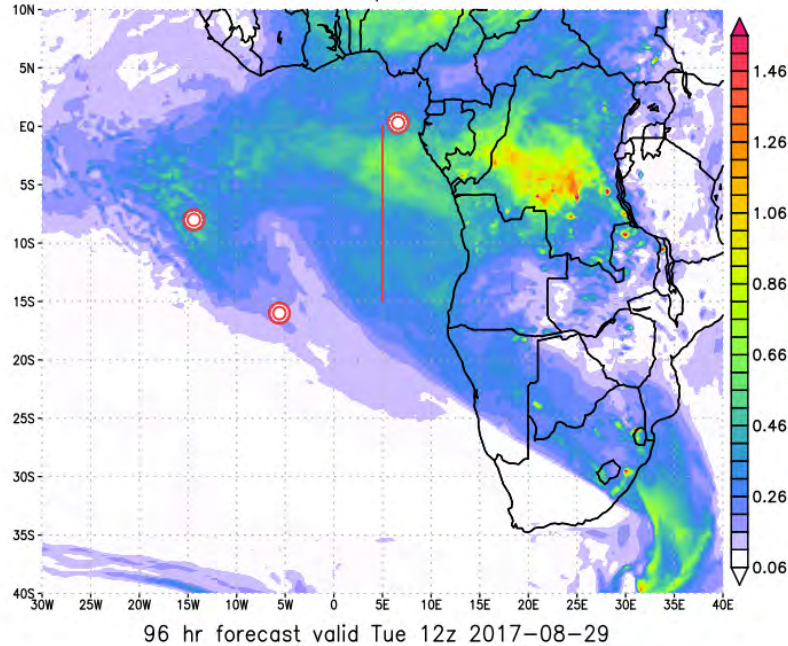
TUESDAY, 29 AUGUST 2017



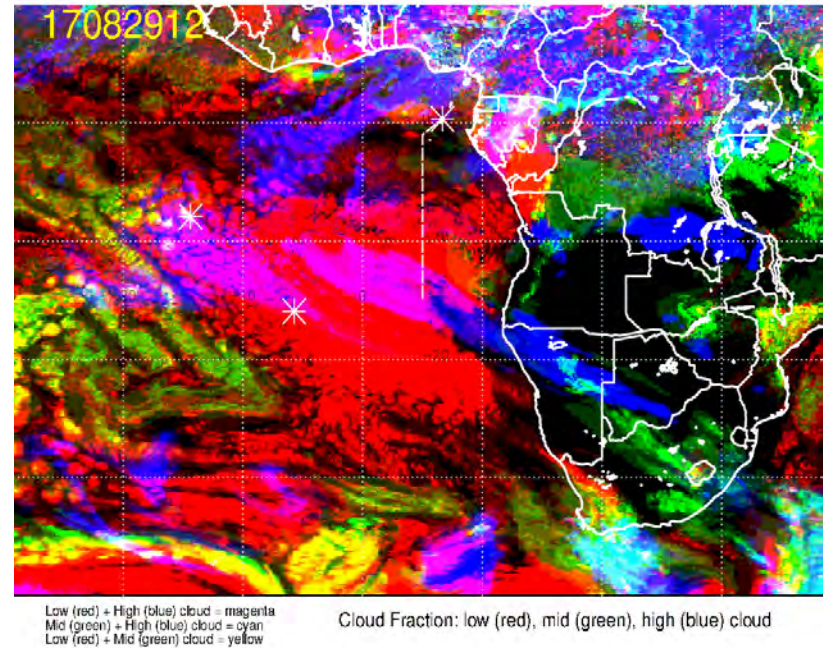
Tuesday 29 August 2017 12Z

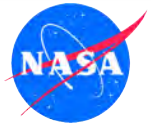


NASA/GMAO - GEOS-5 Forecast Initialized on 12z 2017-08-25
Total Aerosol Optical Thickness



17082912, 096 hour forecast for Cloud Fraction (low, mid, and high cloud) -- ECMWF

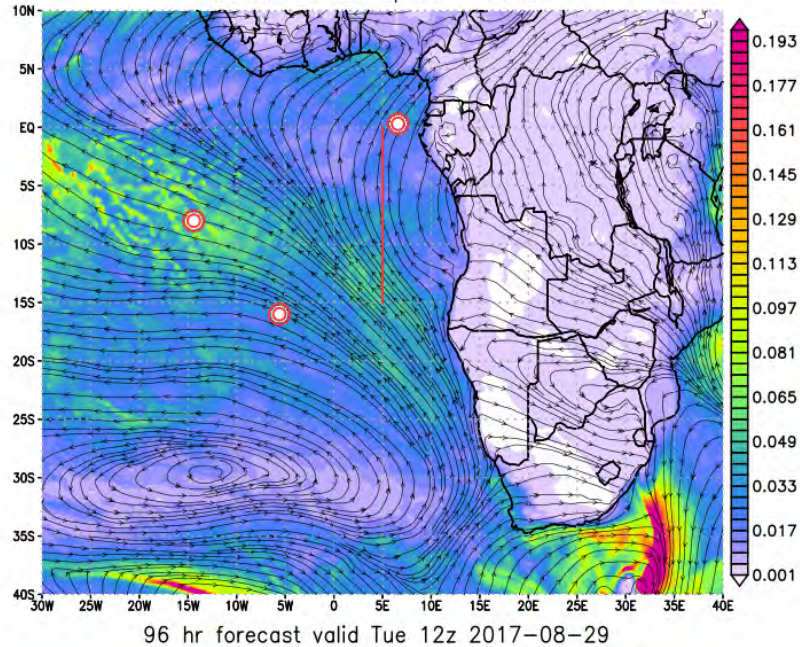




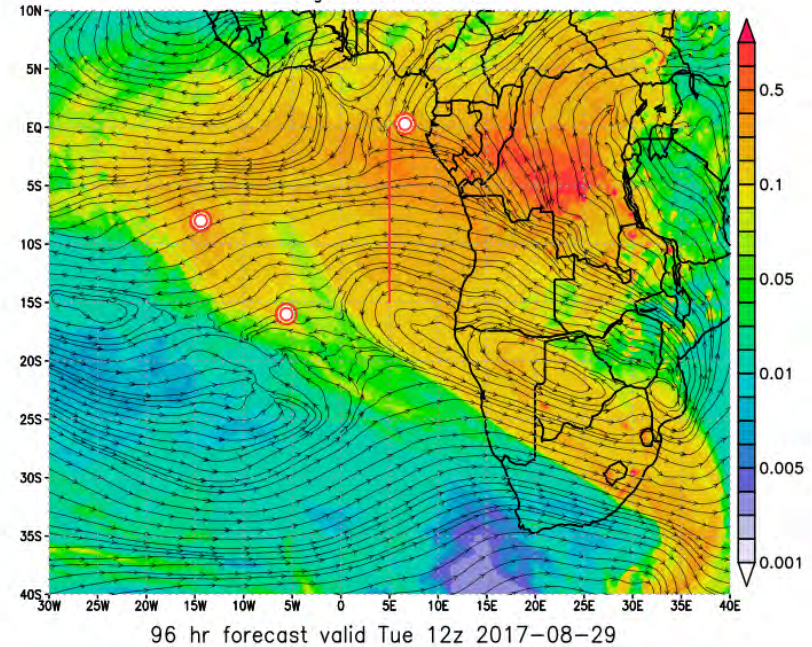
Tuesday 29 August 2017 12Z

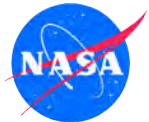


NASA/GMAO – GEOS-5 Forecast Initialized on 12z 2017-08-25
Sea Salt Aerosol Optical Thickness

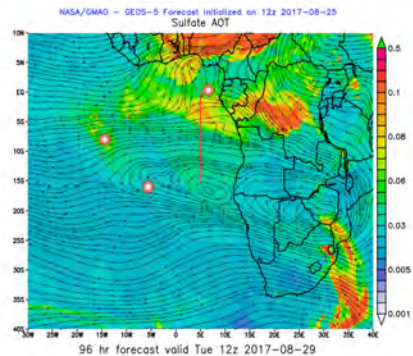
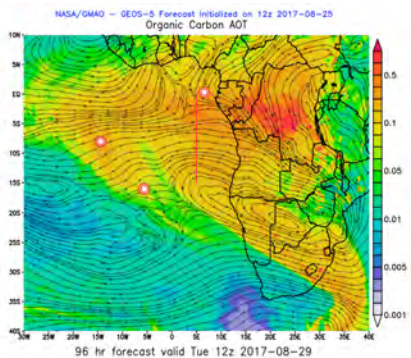
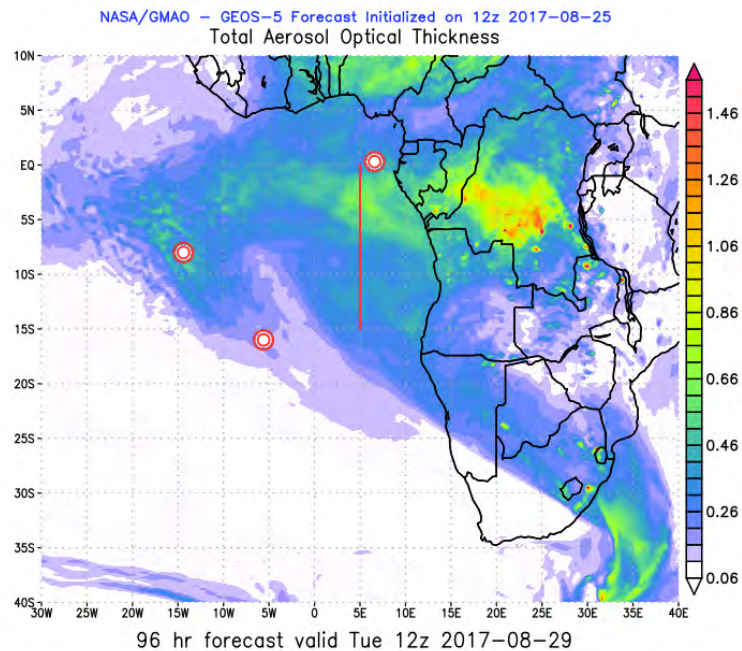
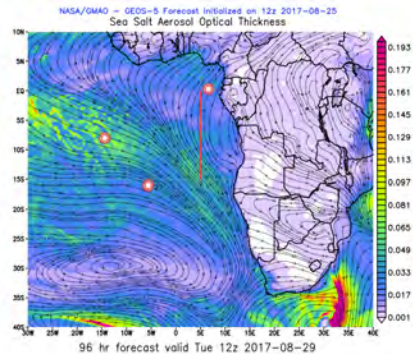
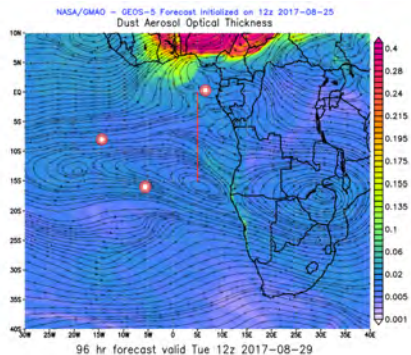


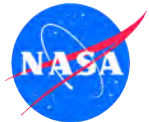
NASA/GMAO – GEOS-5 Forecast Initialized on 12z 2017-08-25
Organic Carbon AOT



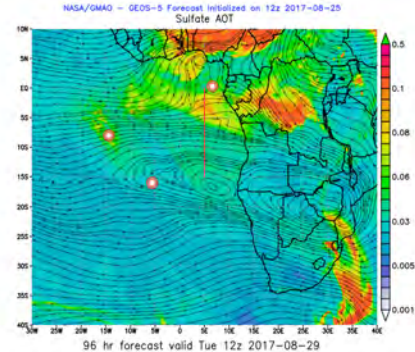
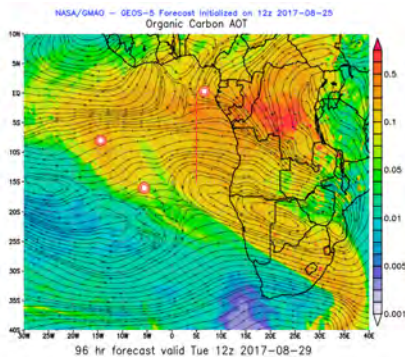
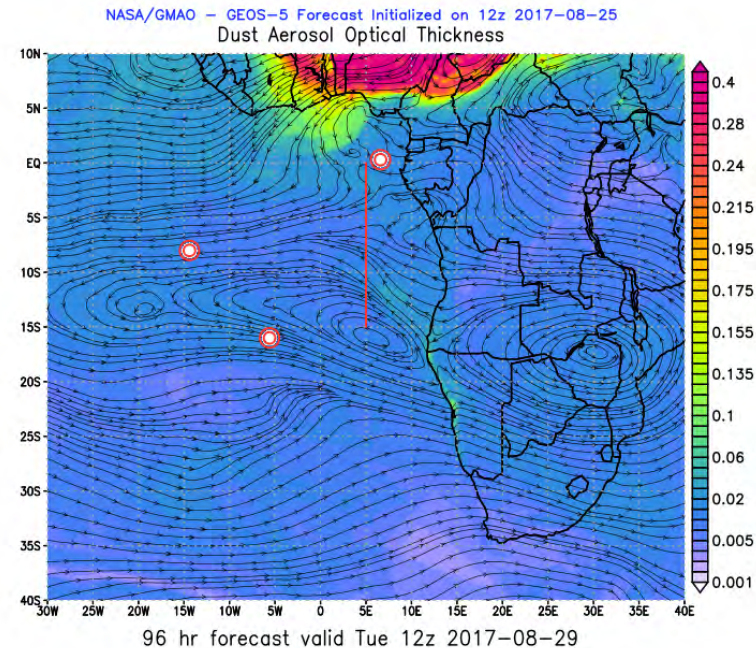
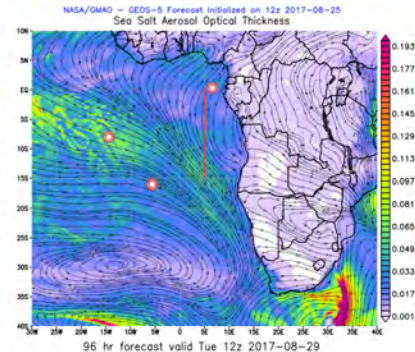
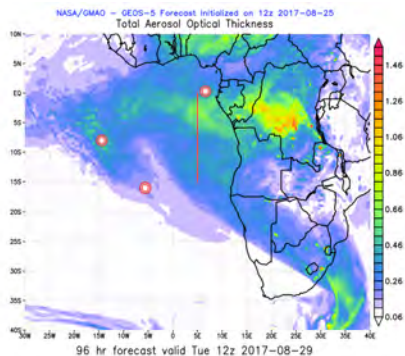


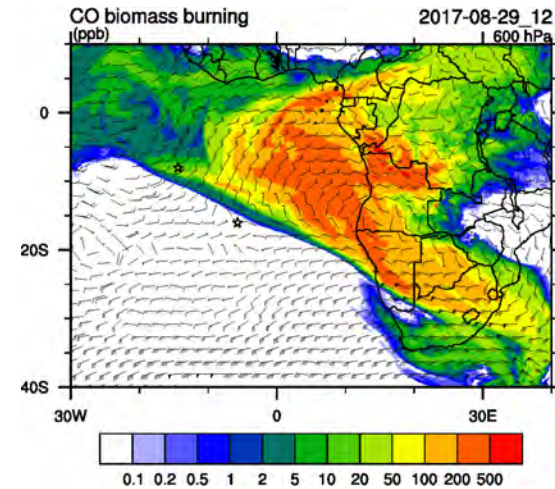
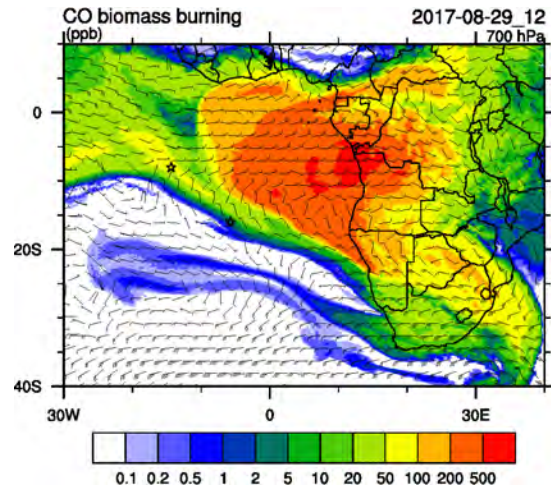
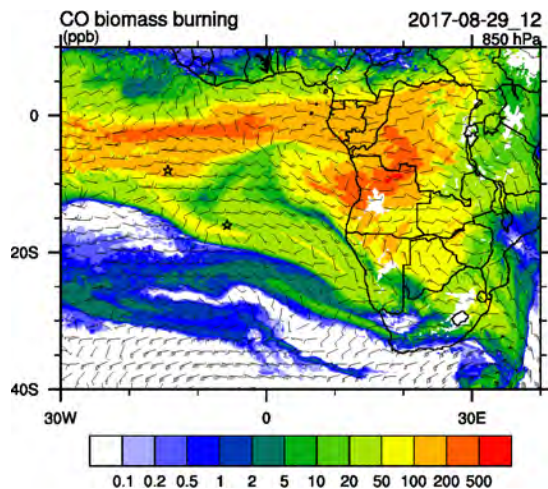
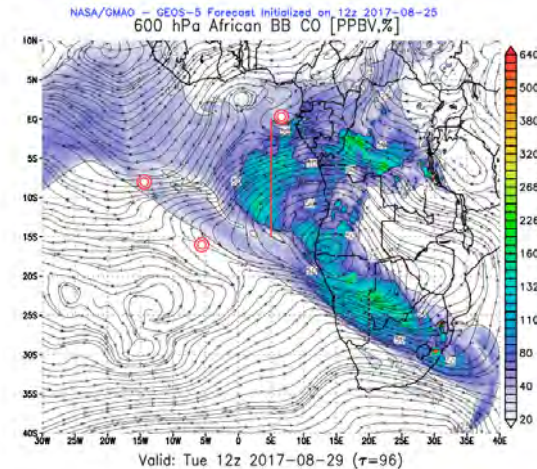
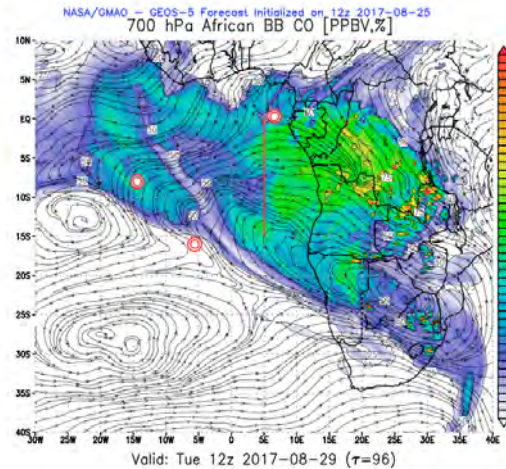
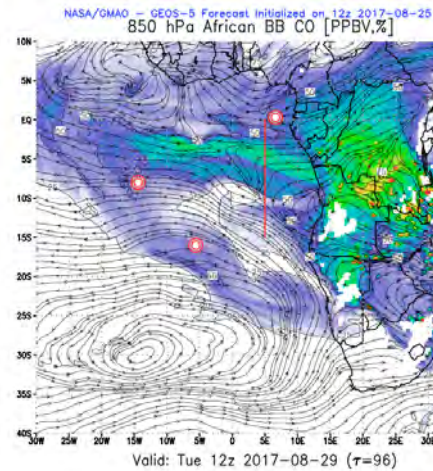
Tuesday 29 August 2017 12Z

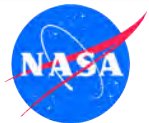




Tuesday 29 August 2017 12Z







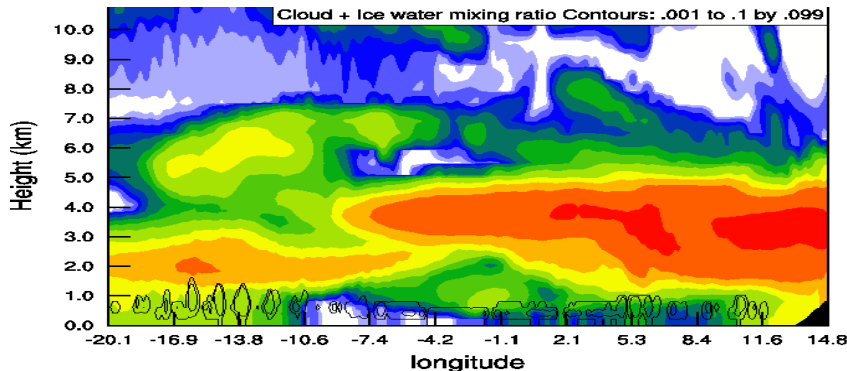
Cross sections – Tue 29 Aug 12 Z



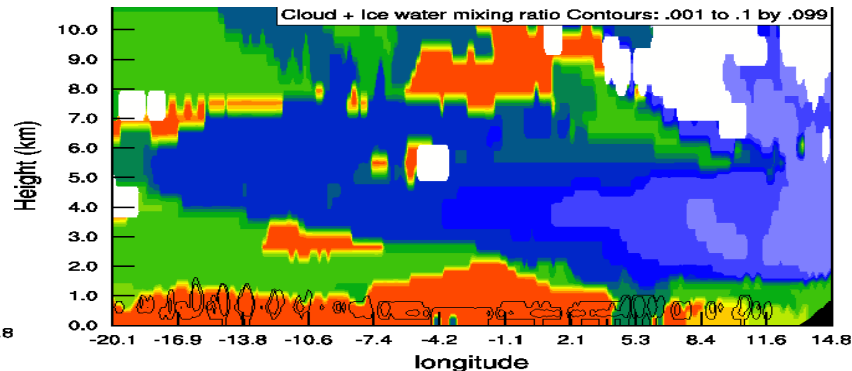
CO from BB (ppb)

BB age mode (days)

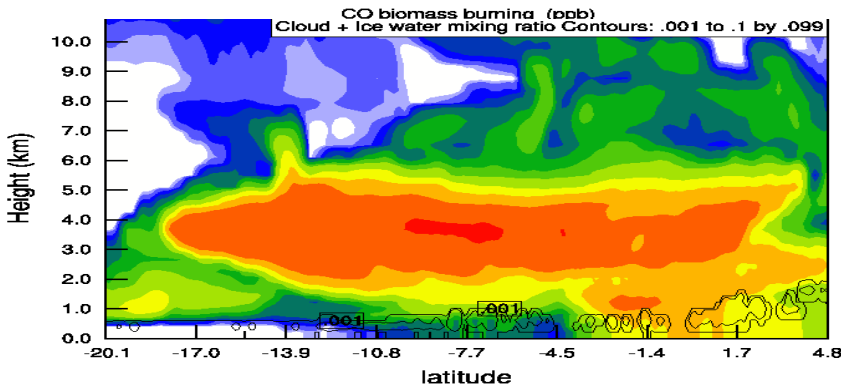
8 S



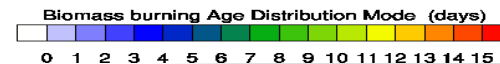
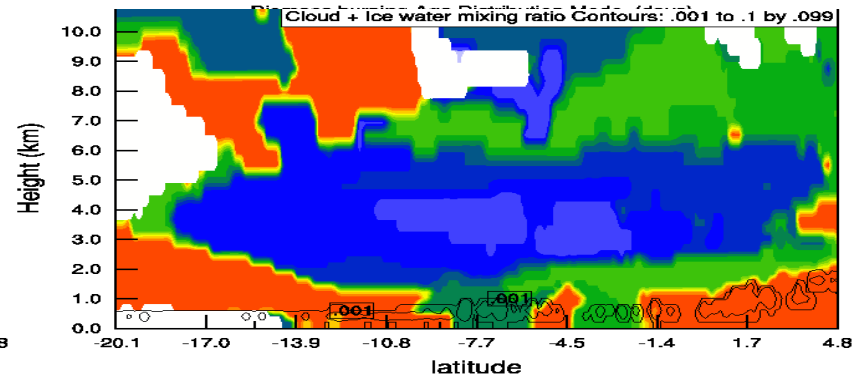
8 S

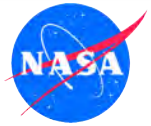


5 E



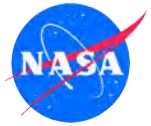
5 E





Fly/No Day (TBD)

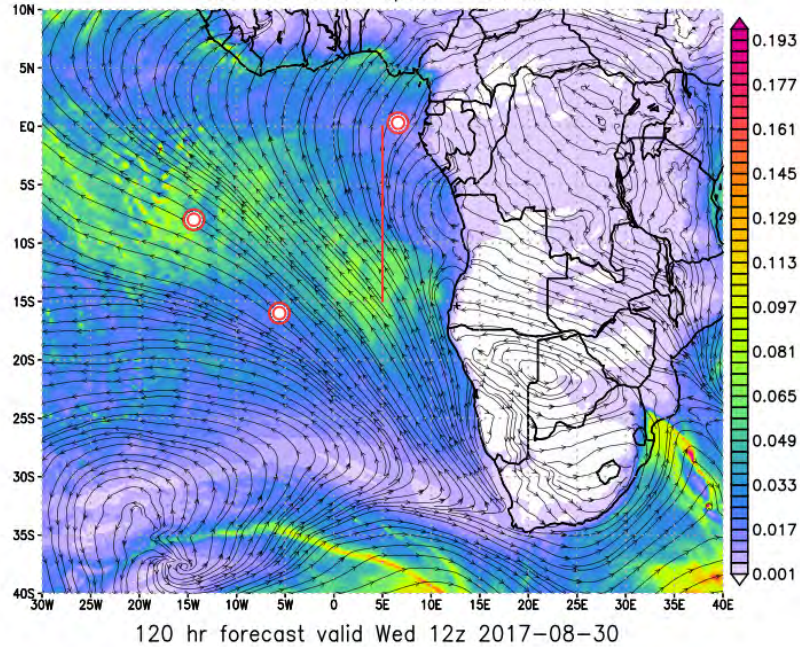
WEDNESDAY, 30 AUGUST 2017



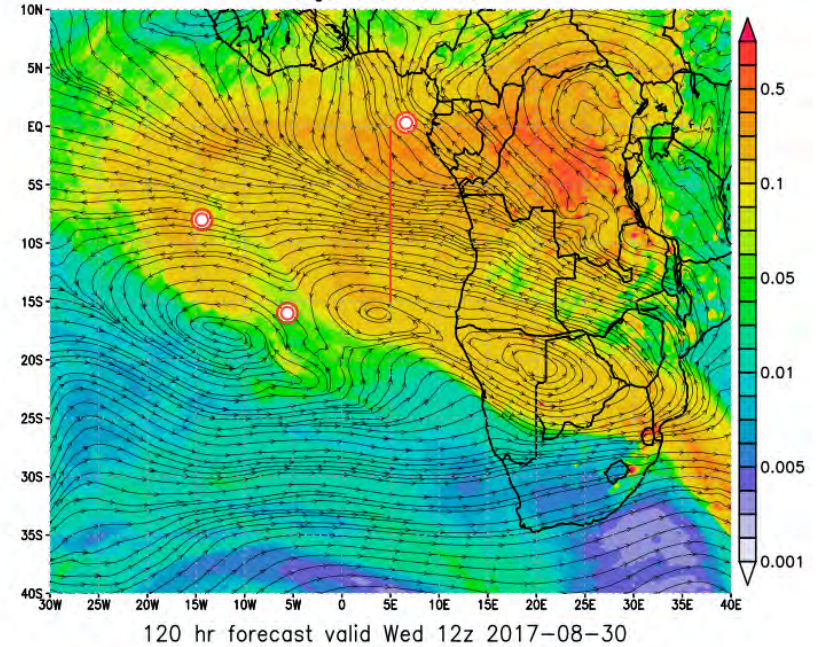
Wed 30 August 2017 12Z

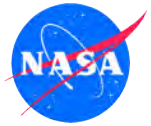


NASA/GMAO – GEOS-5 Forecast Initialized on 12z 2017-08-25
Sea Salt Aerosol Optical Thickness



NASA/GMAO – GEOS-5 Forecast Initialized on 12z 2017-08-25
Organic Carbon AOT

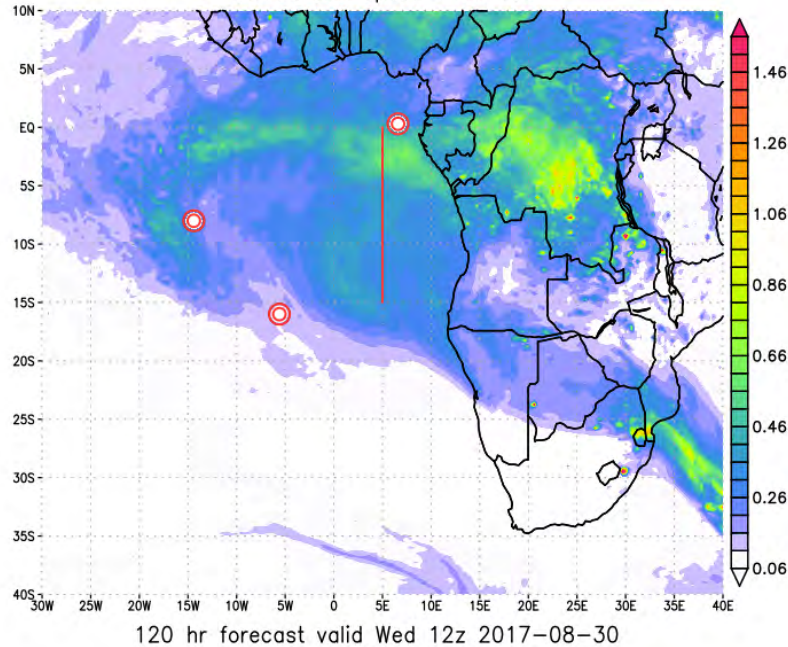




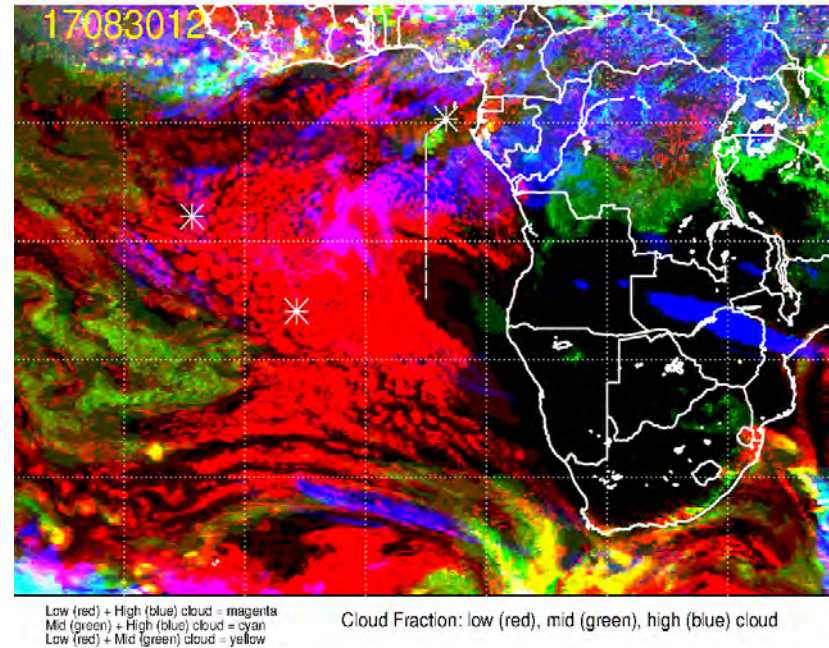
Wed 30 August 2017 12Z

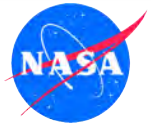


NASA/GMAO - GEOS-5 Forecast Initialized on 12z 2017-08-25
Total Aerosol Optical Thickness



17083012, 120 hour forecast for Cloud Fraction (low, mid, and high cloud) -- ECMWF





WED 30 August 2017 12Z

