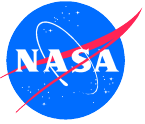
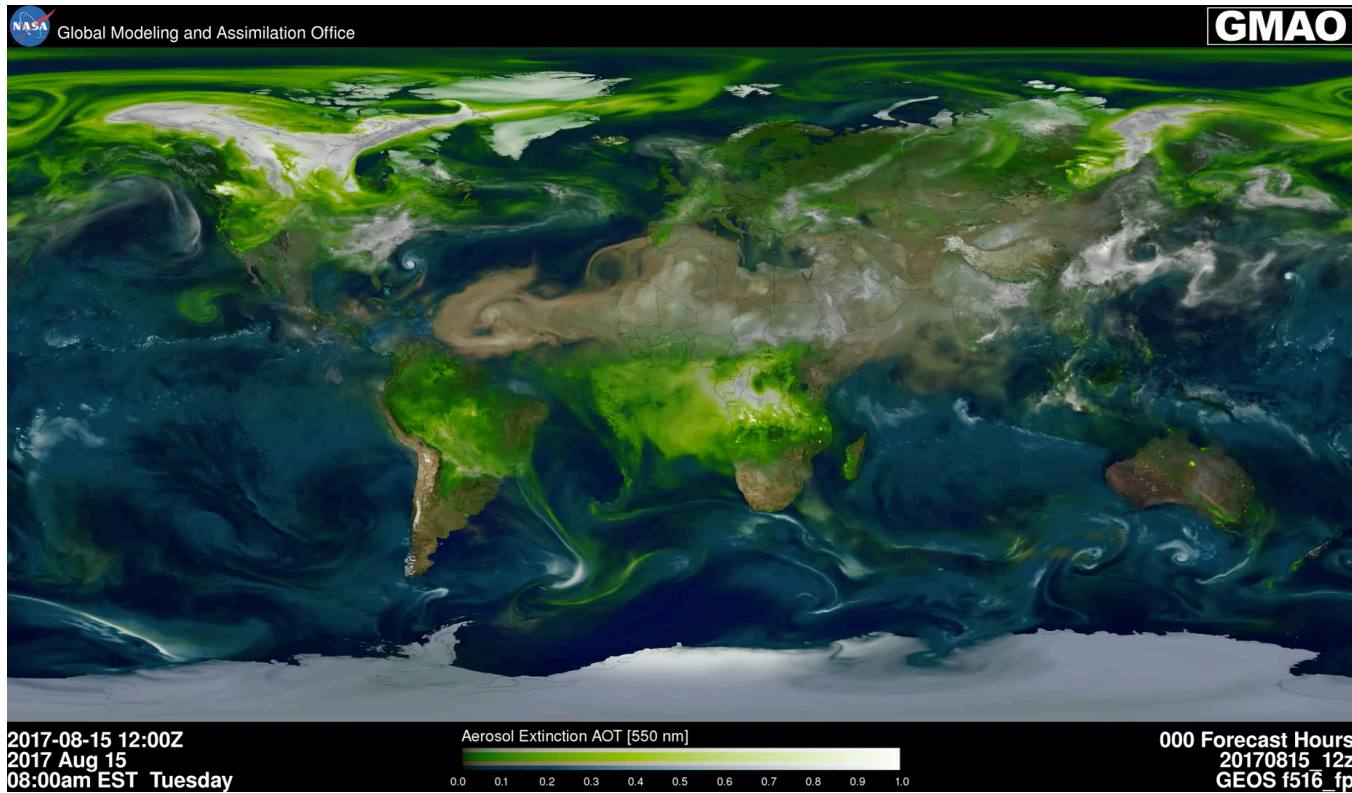


ORACLES Forecast Briefing

Aerosols
16 August 2017

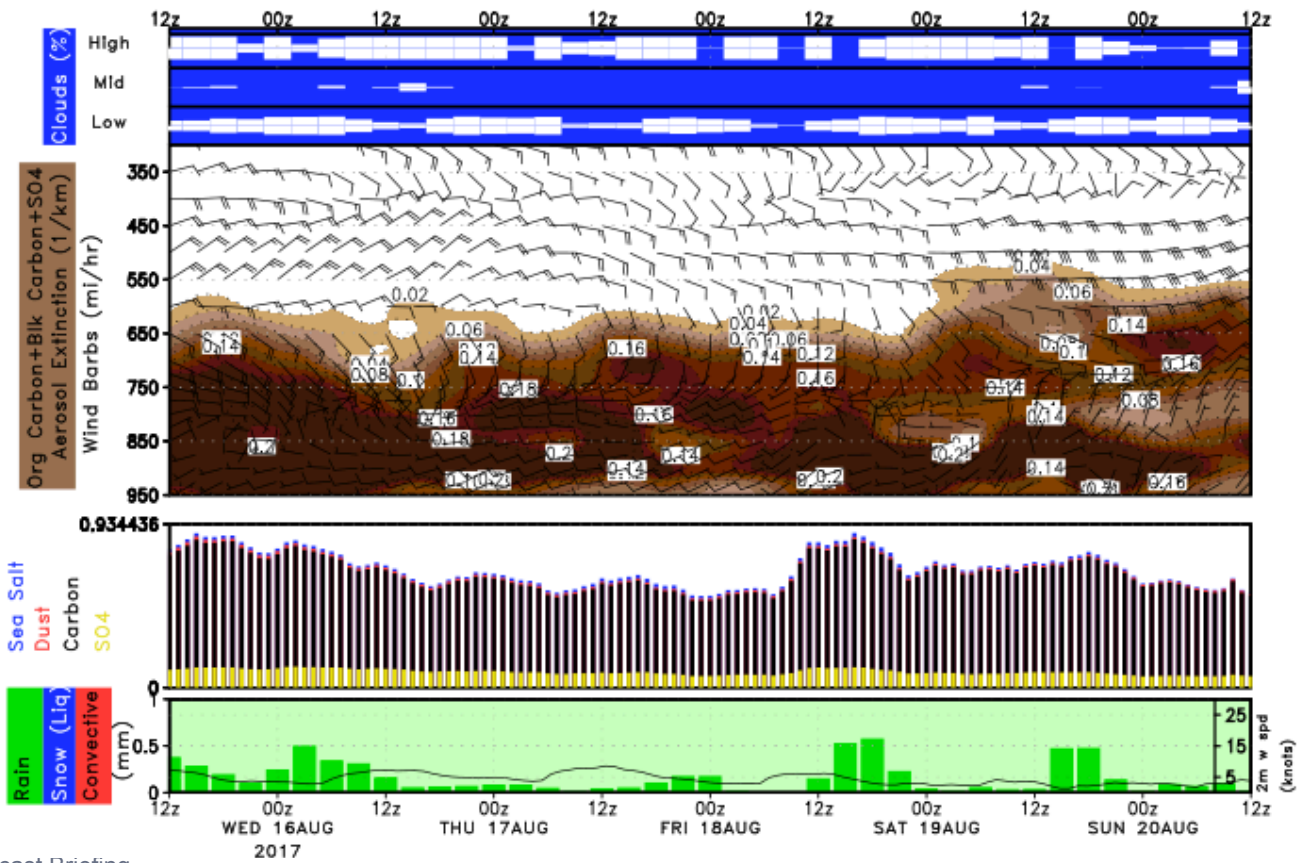


The Aerosol Week



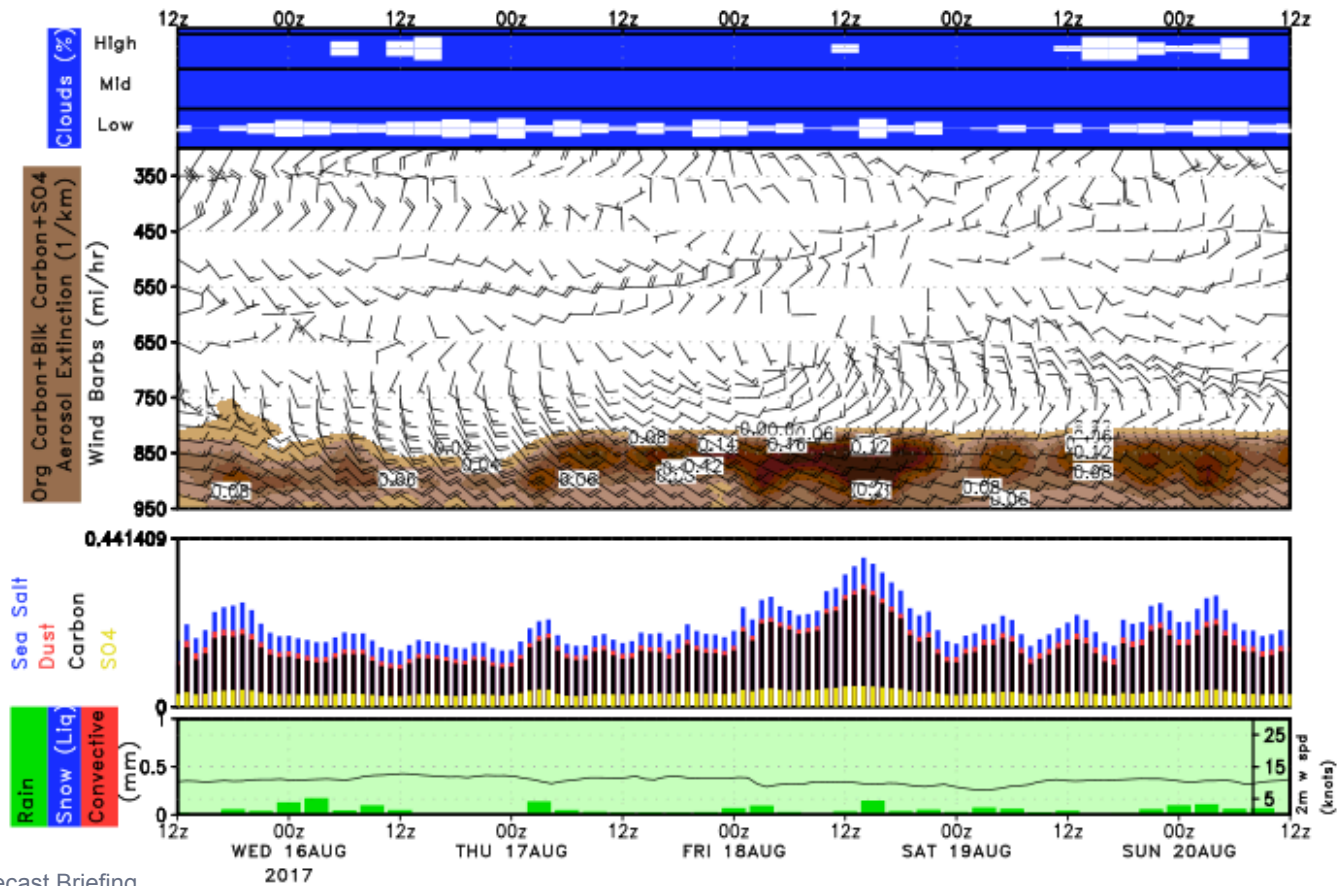


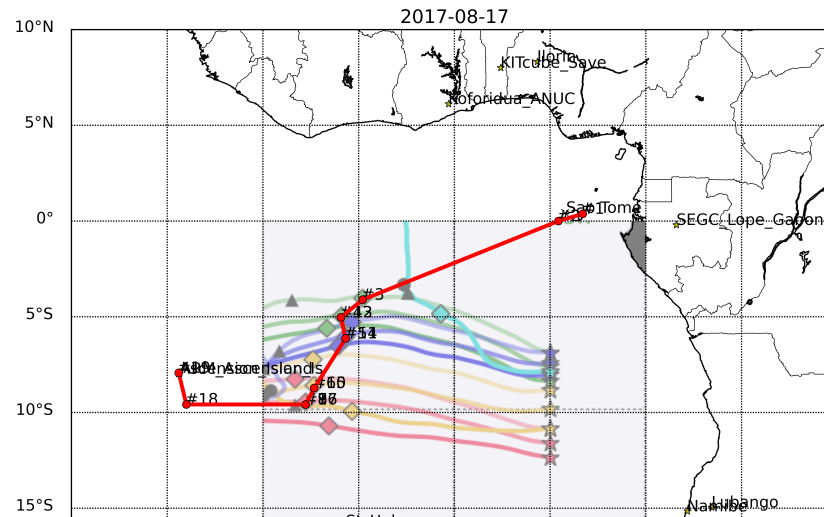
São Tomé (OC+BC+SO₄)





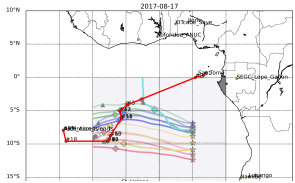
Ascension (OC+BC+SO₄)





Flight Day (Transit to Ascension)

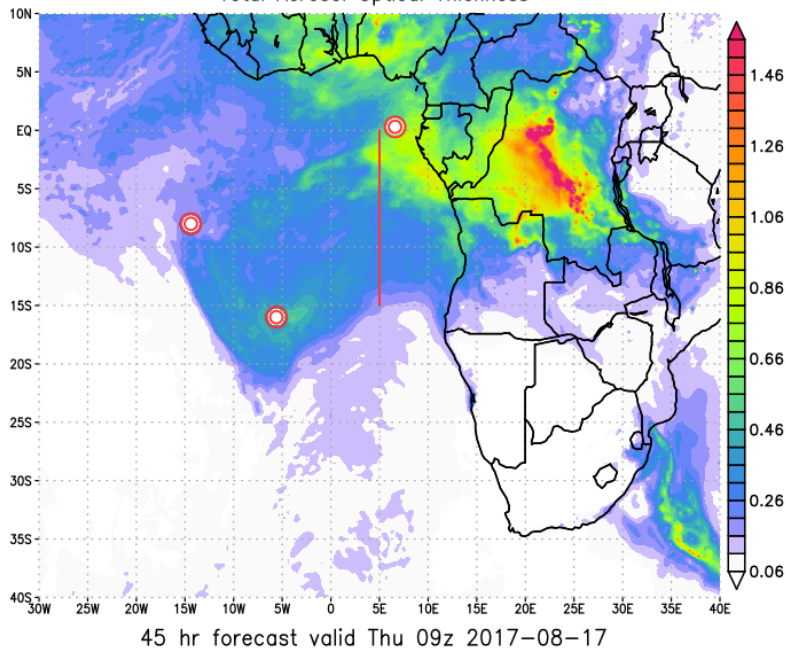
THURSDAY 17 AUGUST 2017



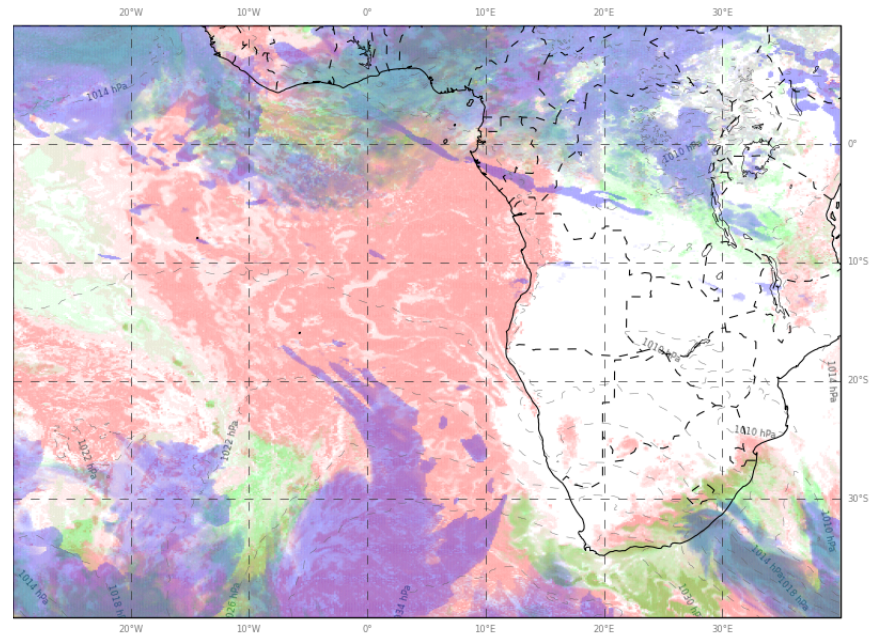
Thursday, 17 Au 2017 9Z

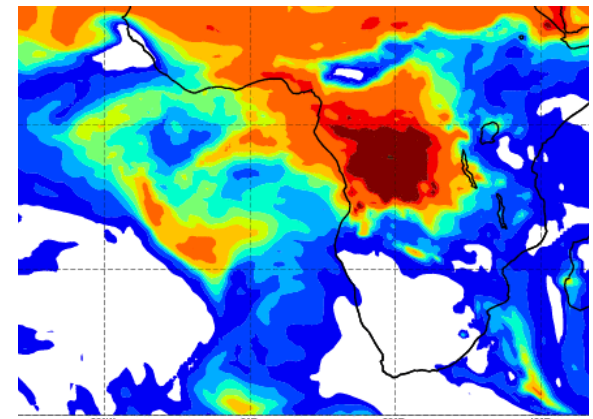
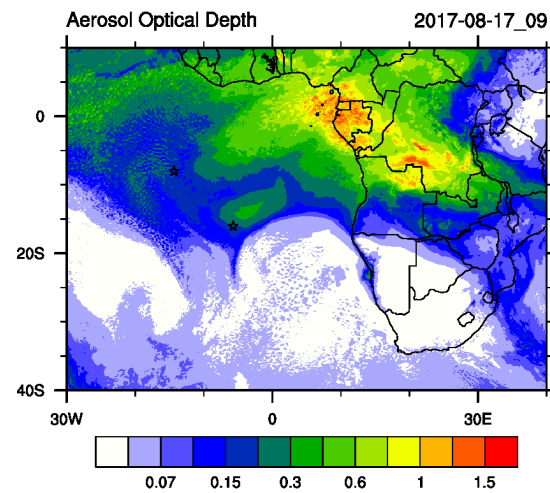
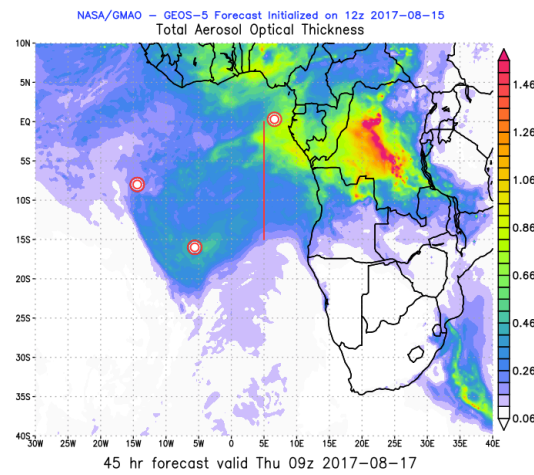
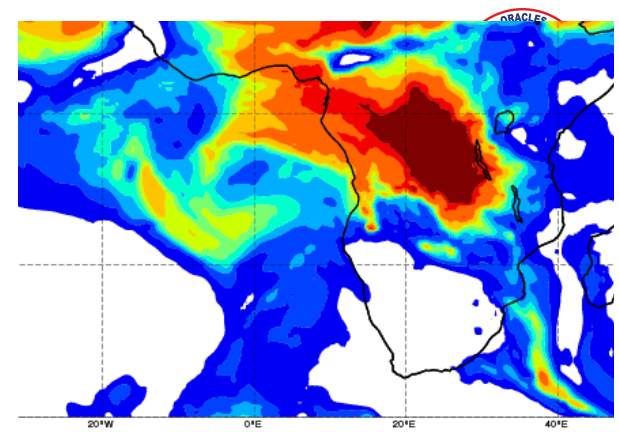
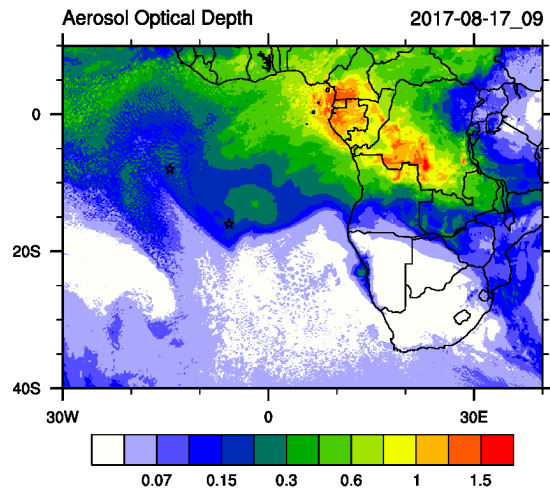
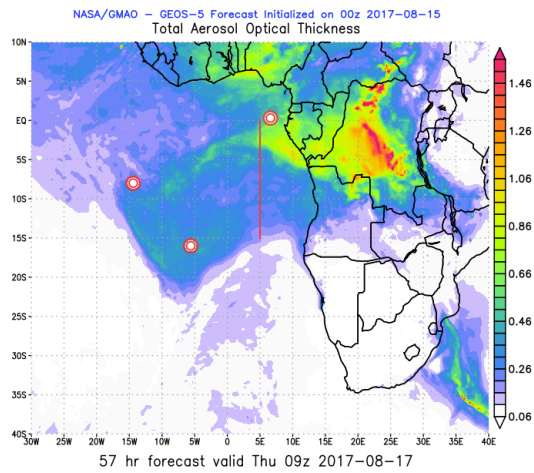


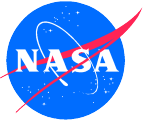
NASA/GMAO – GEOS-5 Forecast Initialized on 12z 2017-08-15
Total Aerosol Optical Thickness



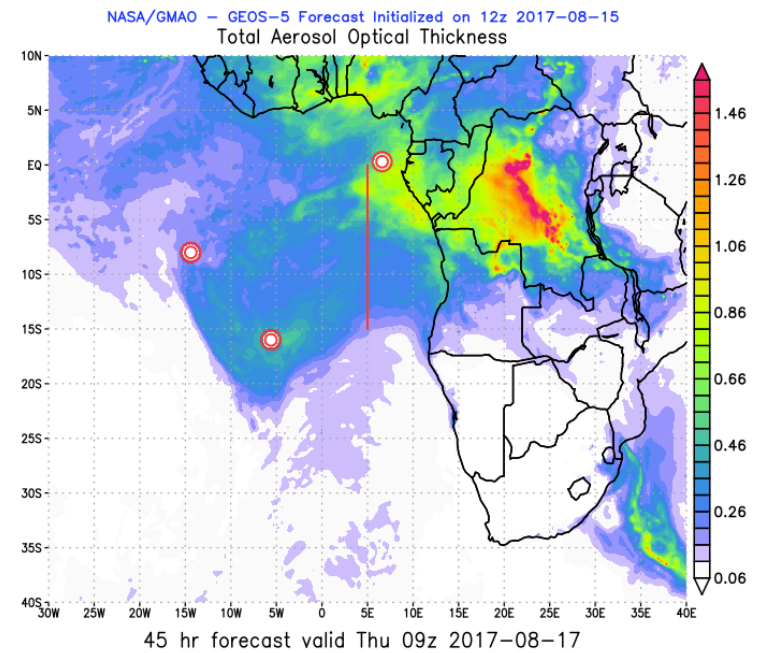
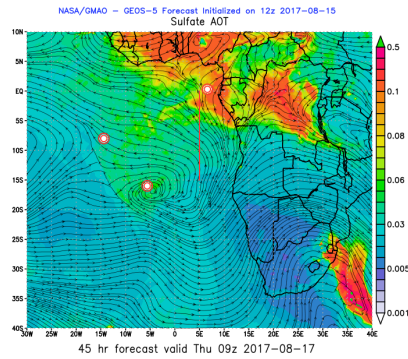
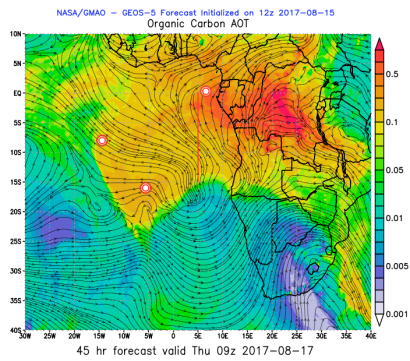
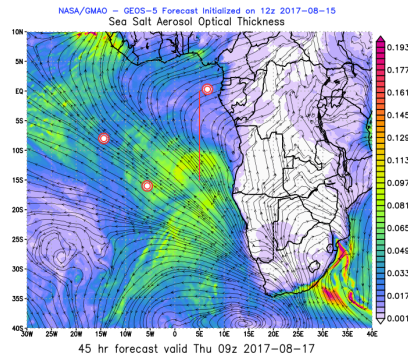
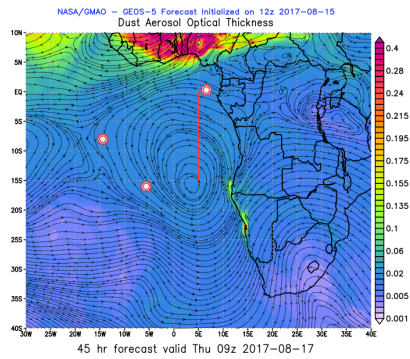
Met Office Oper. Global: Cloud: Low, Medium, High
Thu 2017/08/17 09Z T+33 from 2017/08/16 00Z





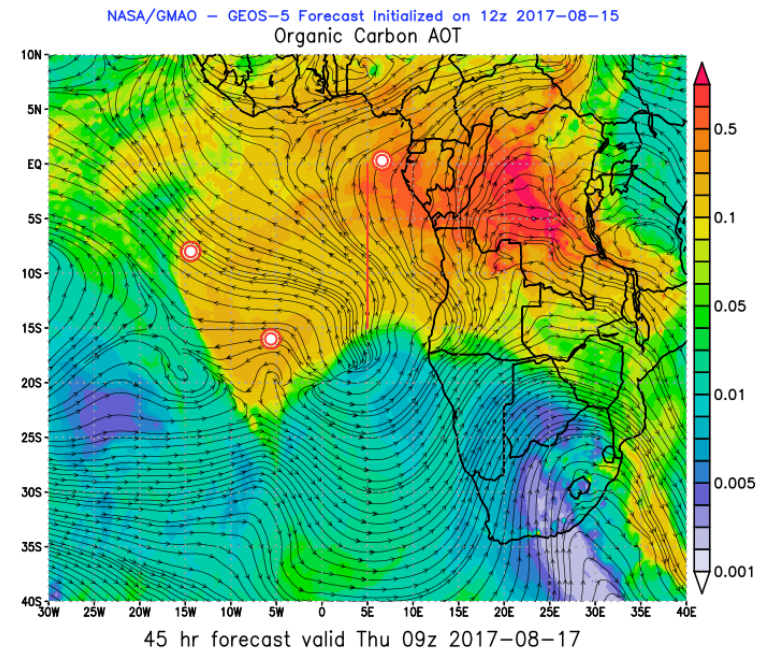
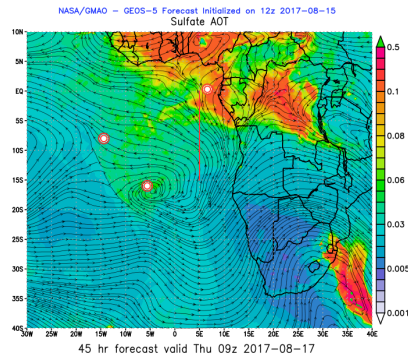
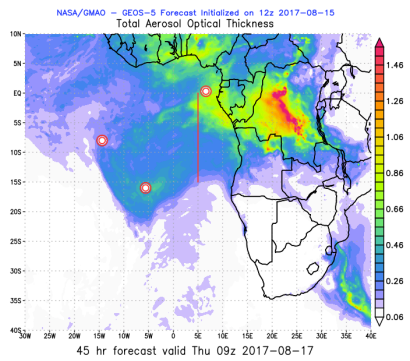
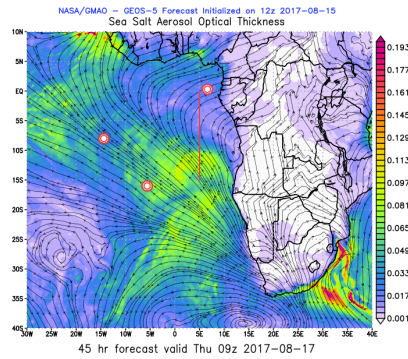
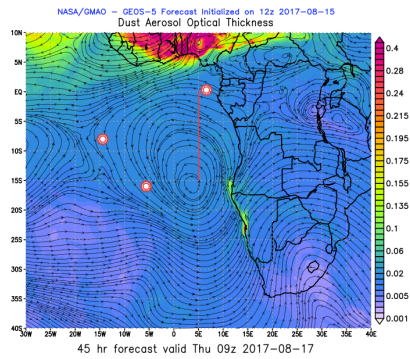


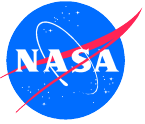
Thursday 17 Aug 2017 9Z



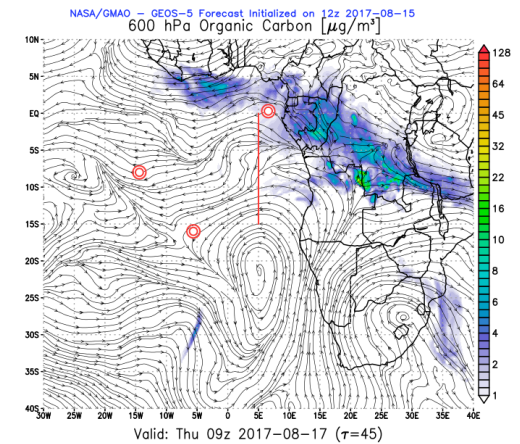
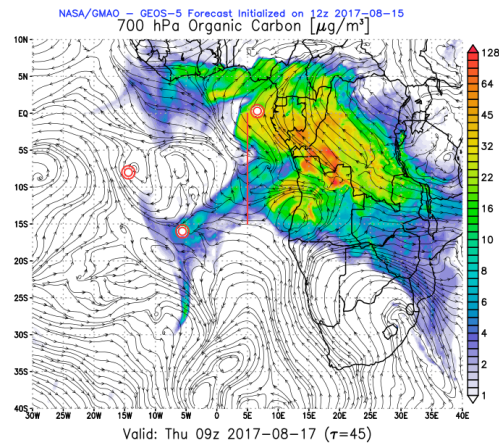
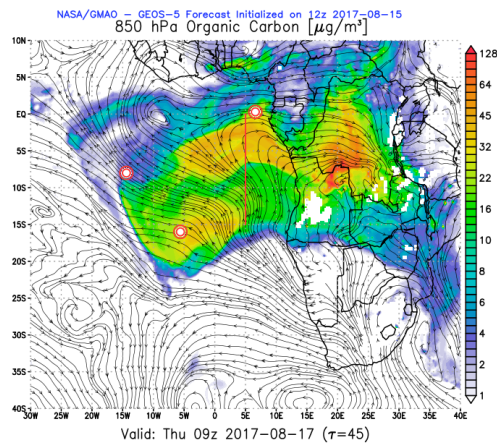


Thursday 17 Aug 2017 9Z



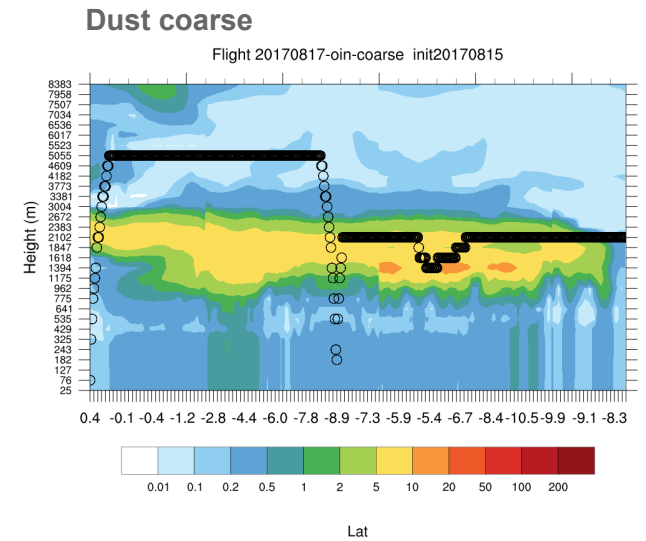
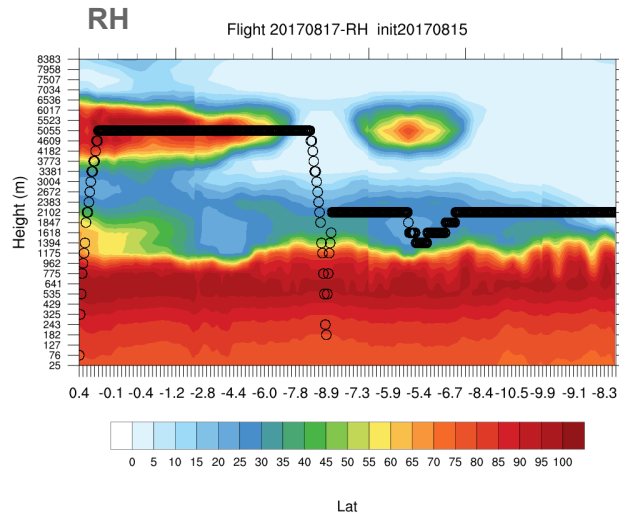
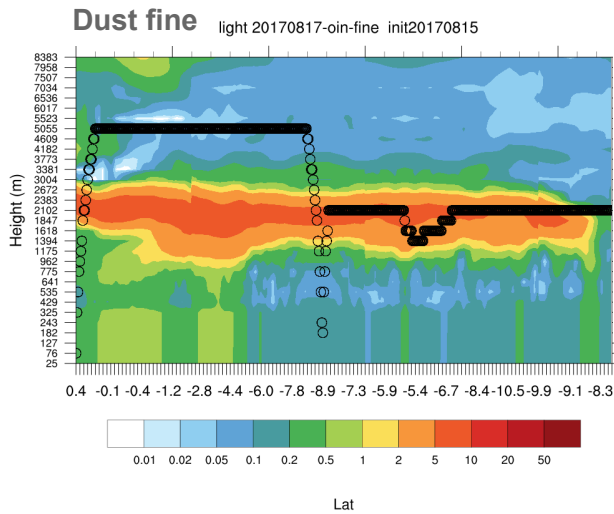


Thursday 17 Aug 2017 9Z





Thursday 17 Aug 2017 9Z



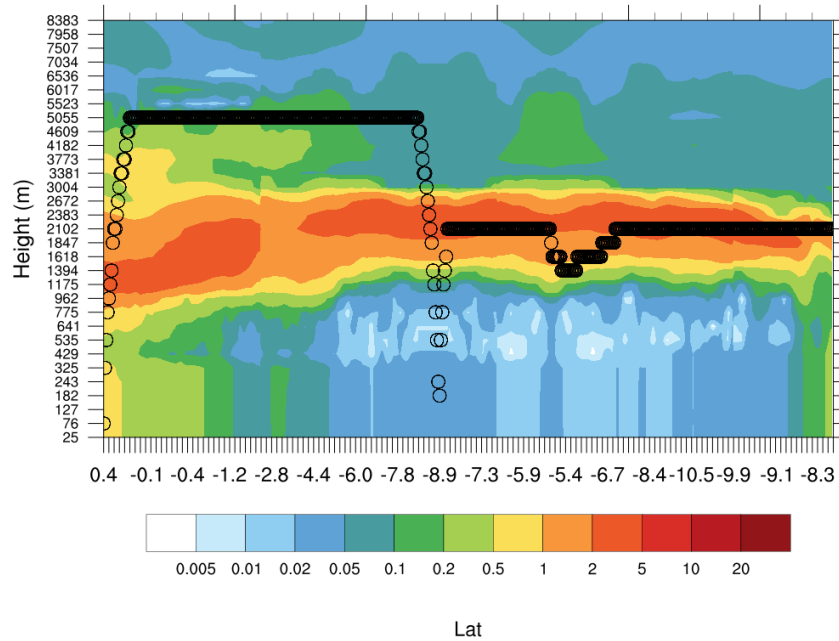


Thursday 17 Aug 2017 9Z



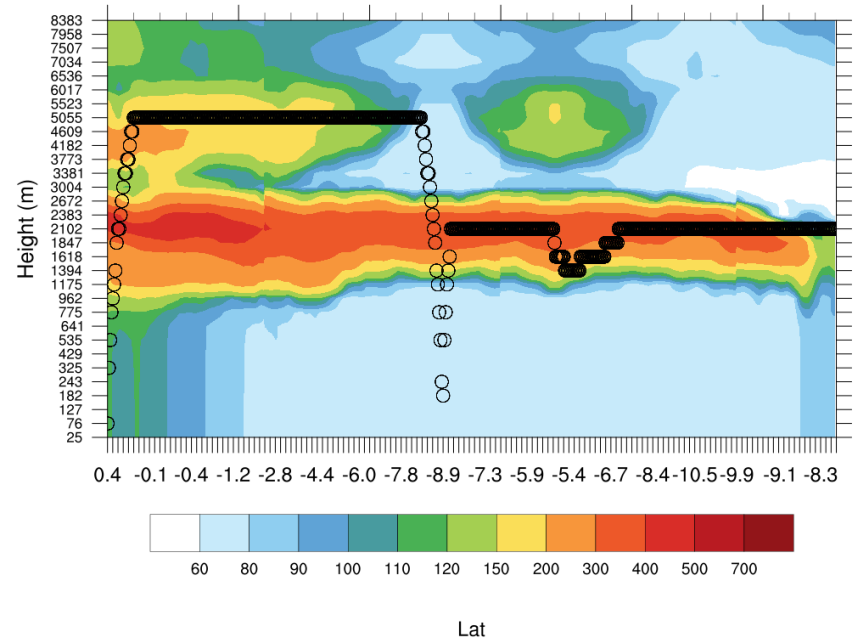
Black carbon

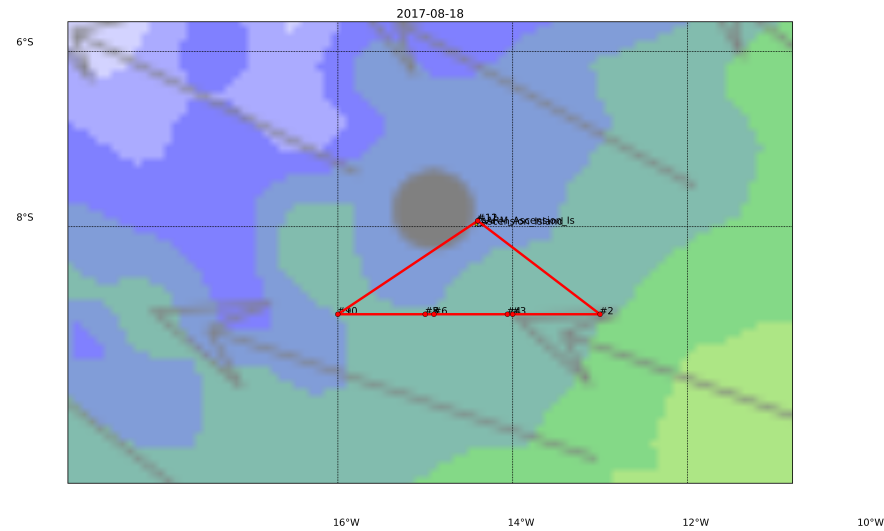
Flight 20170817-bc init20170815



CO

Flight 20170817-co init20170815





Flight Day (Clarify Coordination)

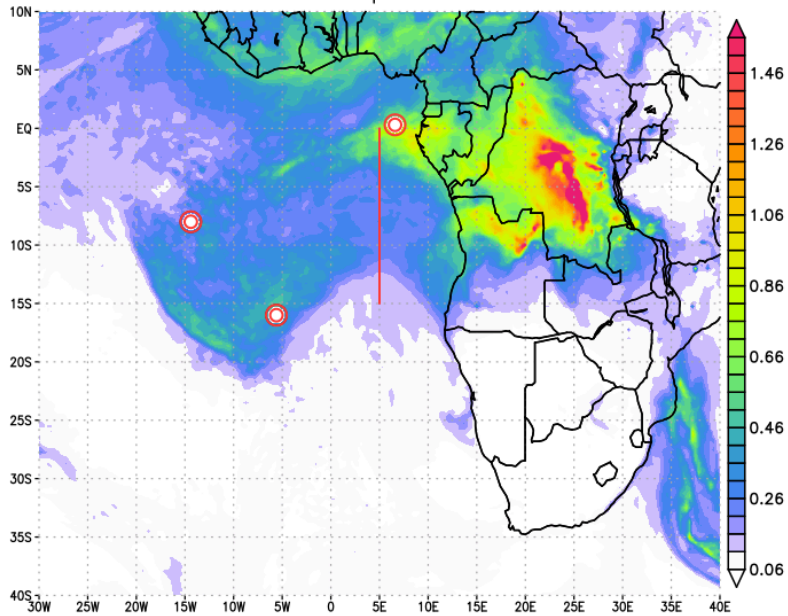
FRIDAY 18 AUGUST 2017



Friday 18 Aug 2017 9Z



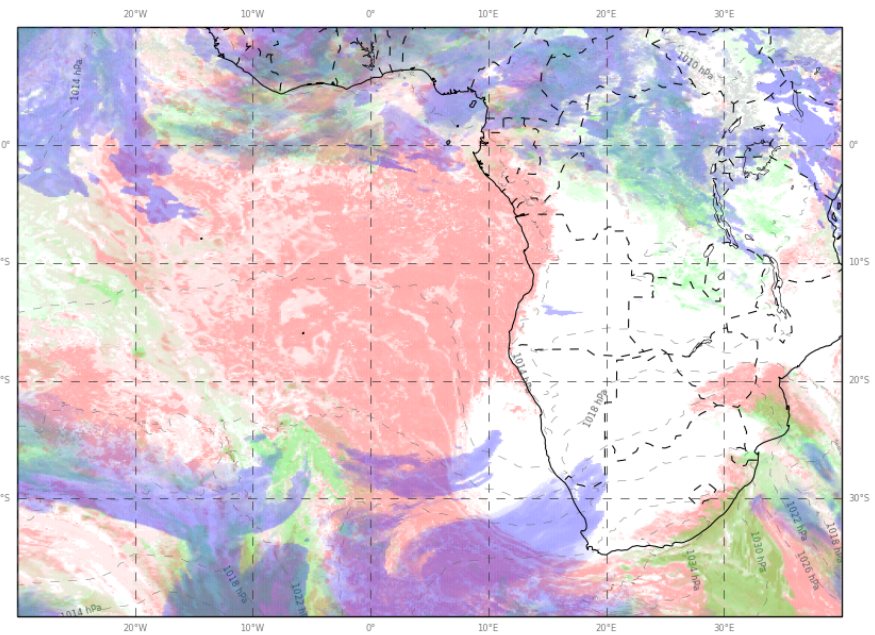
NASA/GMAO – GEOS-5 Forecast Initialized on 12z 2017-08-15
Total Aerosol Optical Thickness

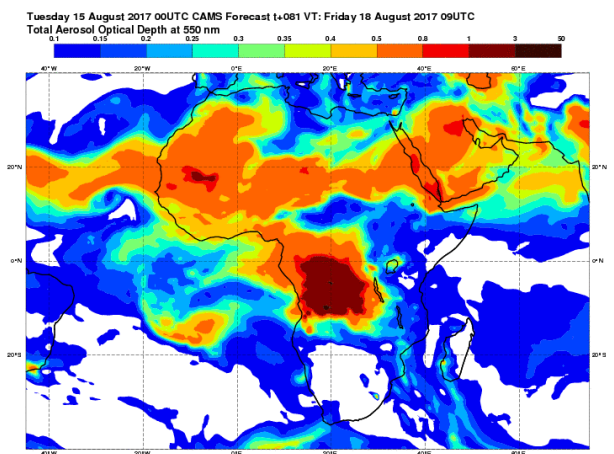
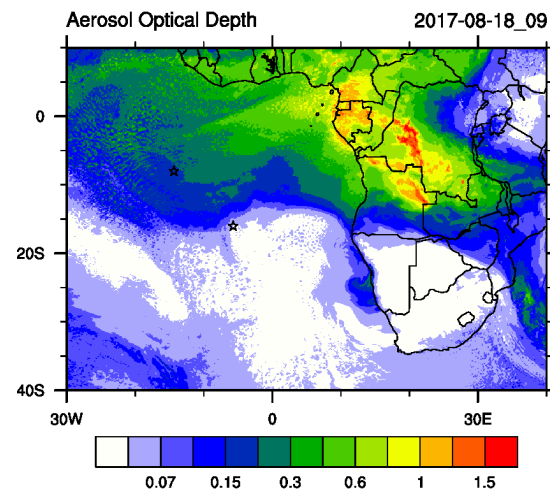
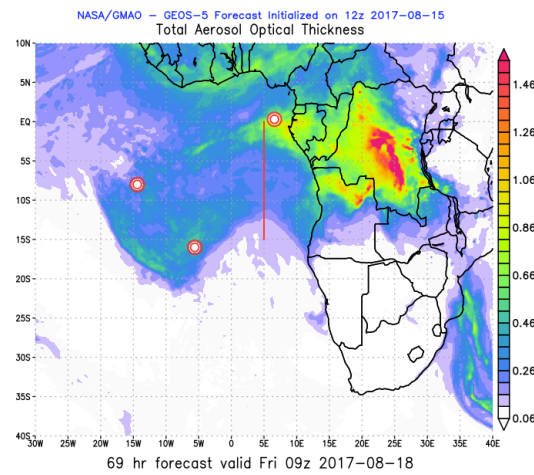
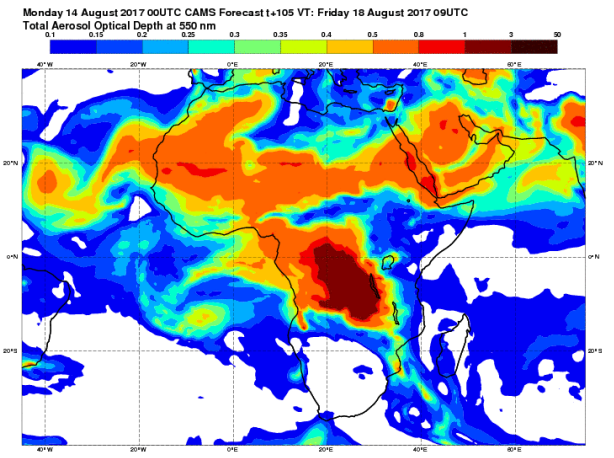
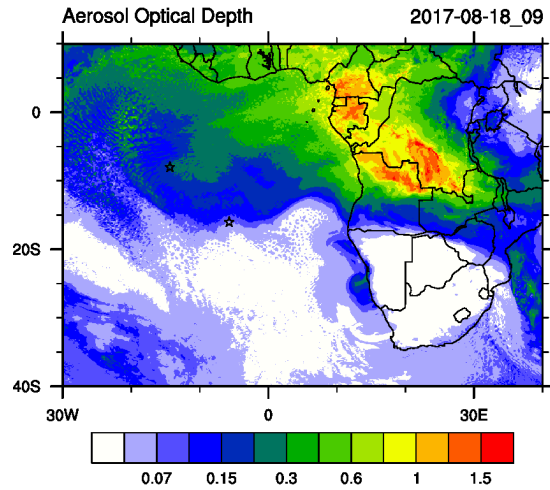
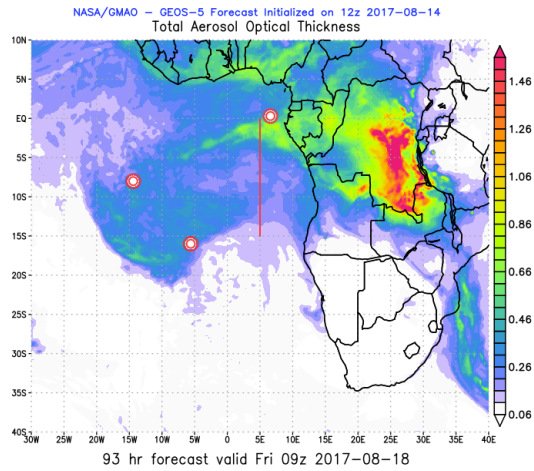


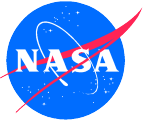
69 hr forecast valid Fri 09z 2017-08-18



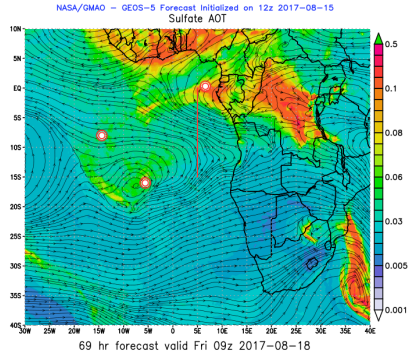
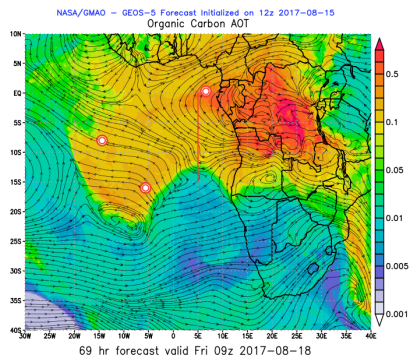
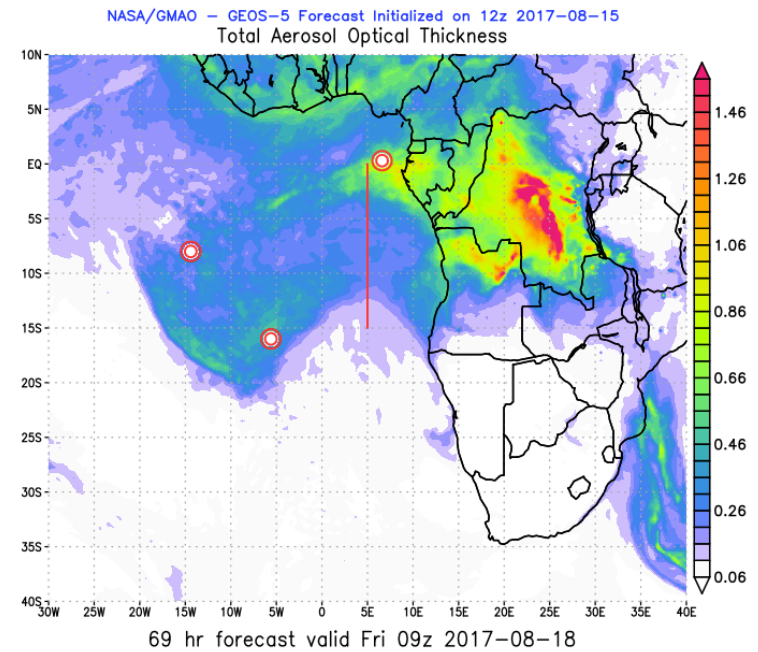
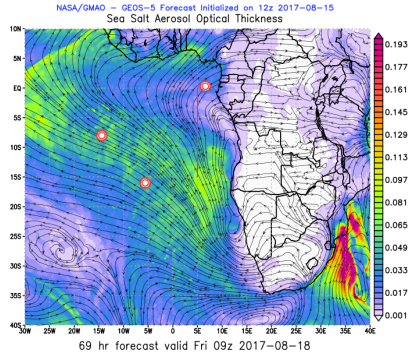
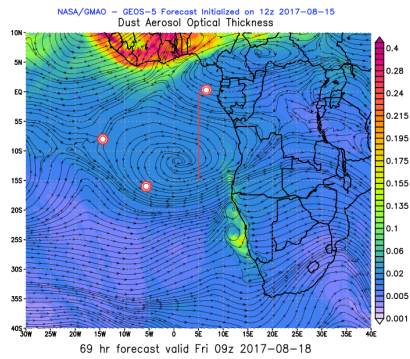
Met Office Oper. Global: Cloud: Low, Medium, High
Fri 2017/08/18 09Z T+57 from 2017/08/16 00Z





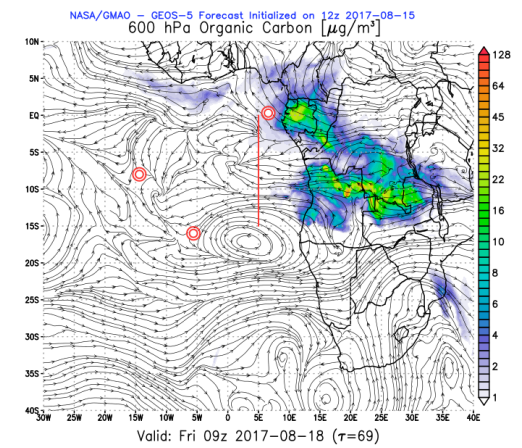
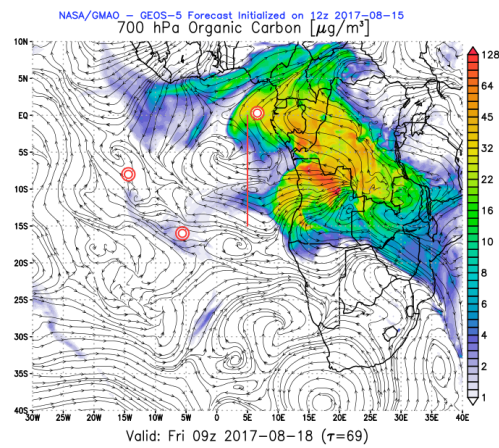
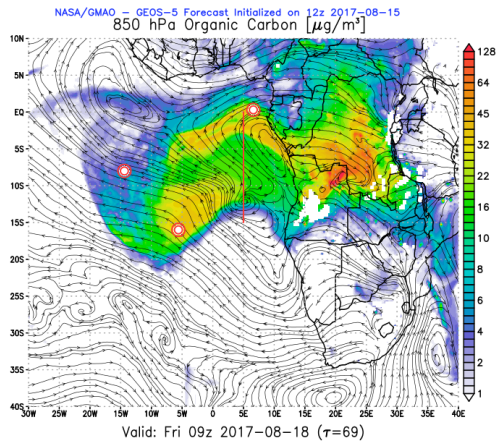


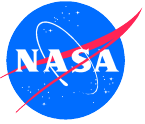
Friday 18 Aug 2017 9Z



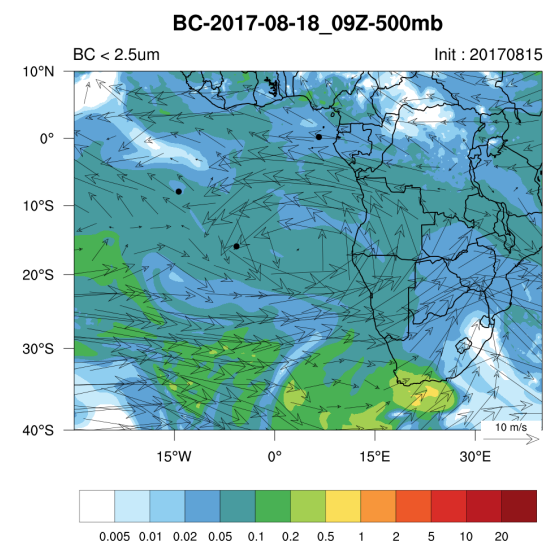
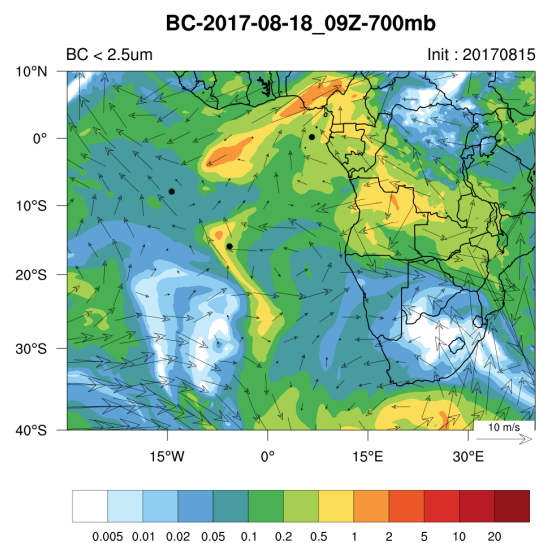
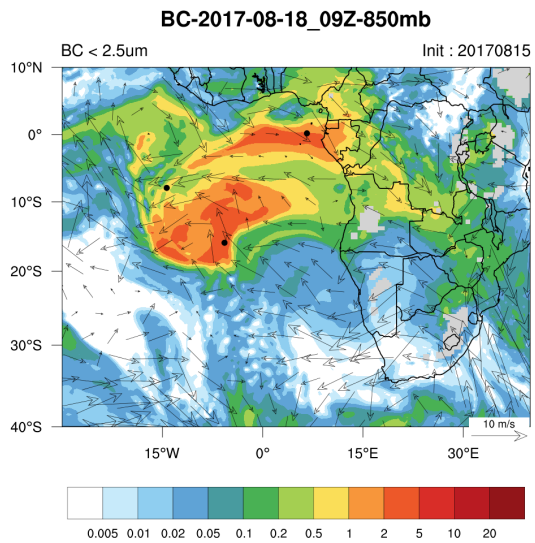


Friday 18 Aug 2017 9Z





Friday 18 Aug 2017 9Z



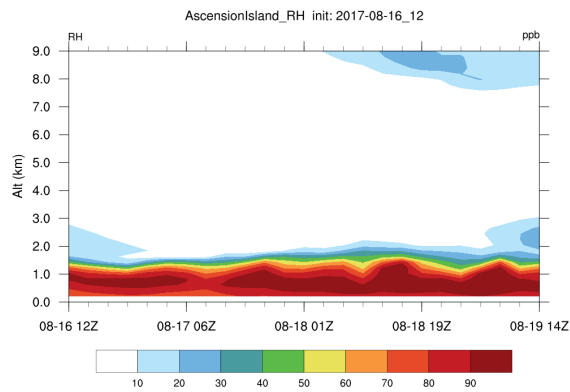


Ascension Island

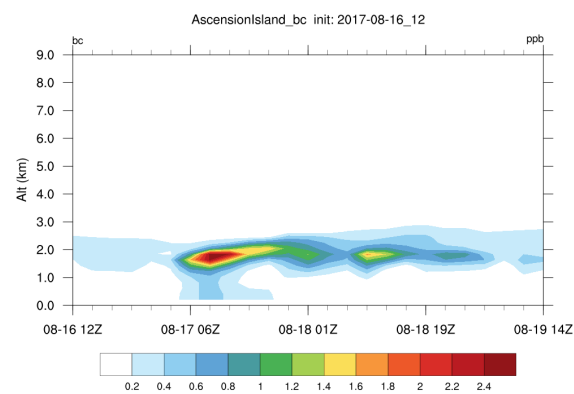
Friday 18 Aug 2017



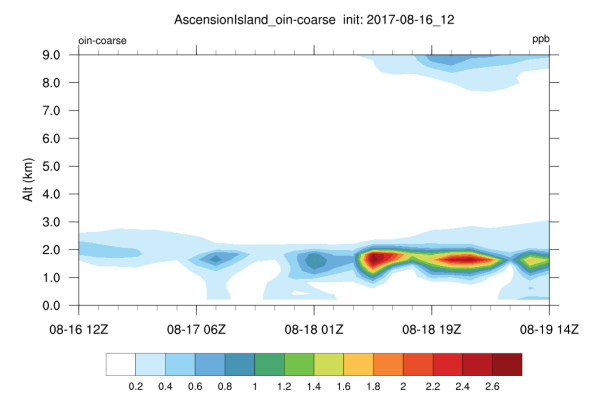
Relative Humidity

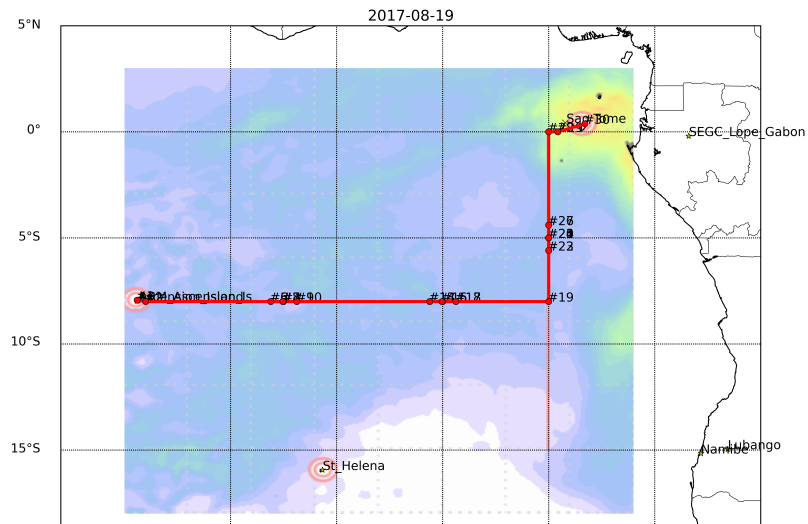


Black carbon



Dust coarse





Flight Day (Return from Ascension)

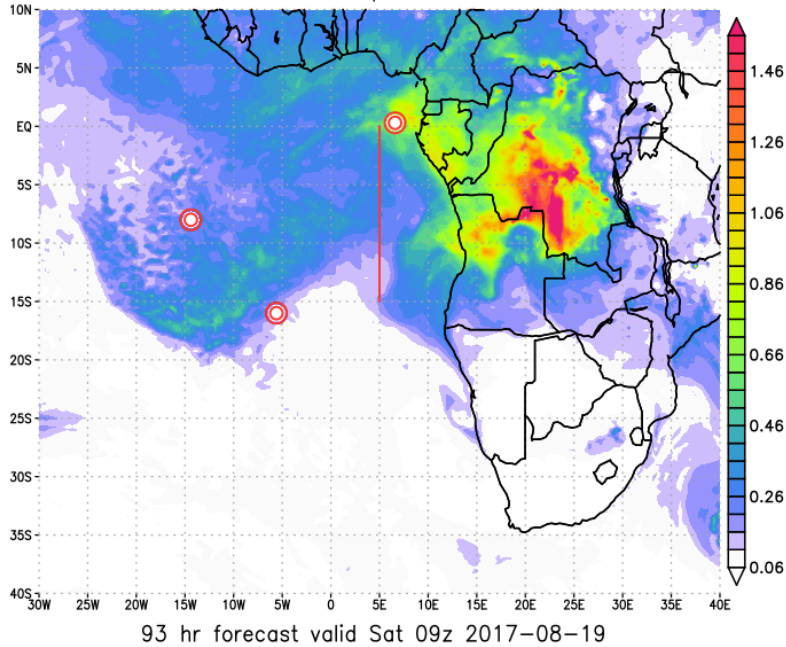
SAT 19 AUGUST 2017



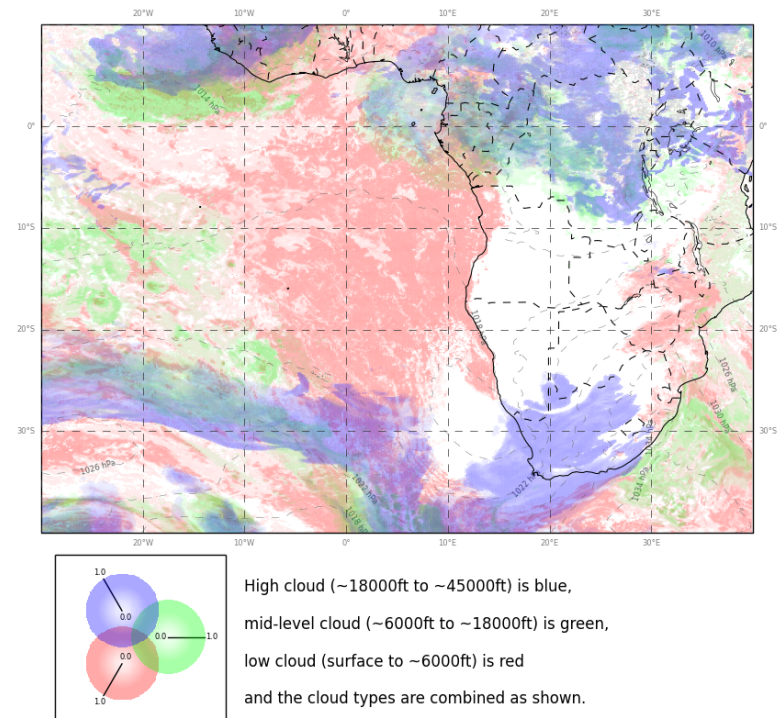
Sat 19 Aug 2017 9Z



NASA/GMAO – GEOS-5 Forecast Initialized on 12z 2017-08-15
Total Aerosol Optical Thickness

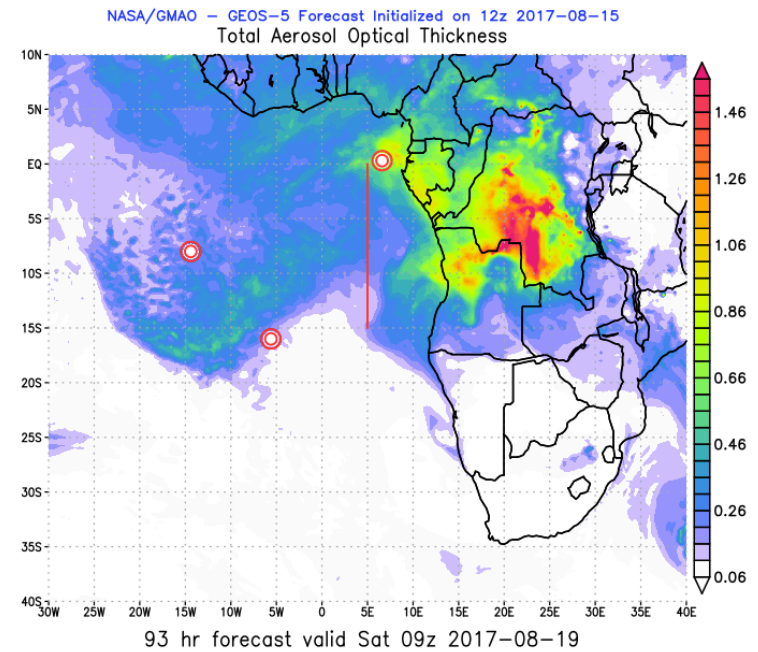
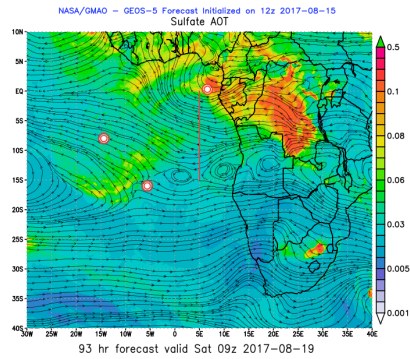
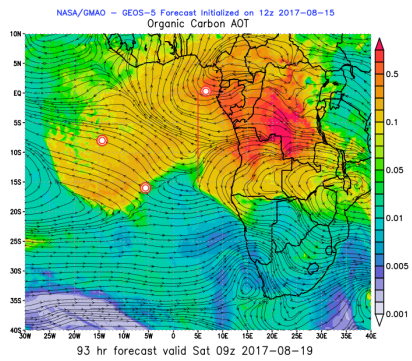
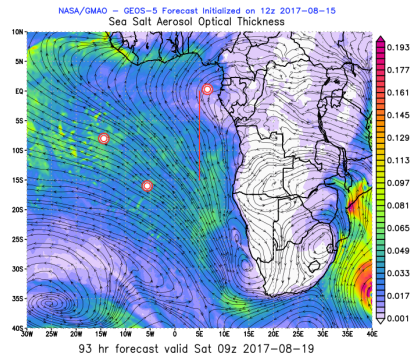
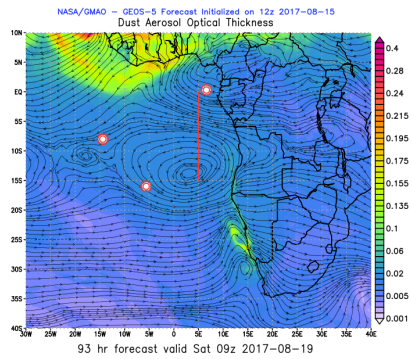


Met Office Oper. Global: Cloud: Low, Medium, High
Sat 2017/08/19 09Z T+81 from 2017/08/16 00Z



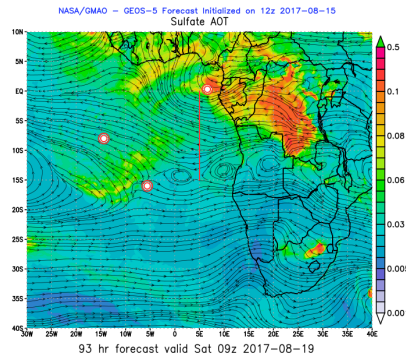
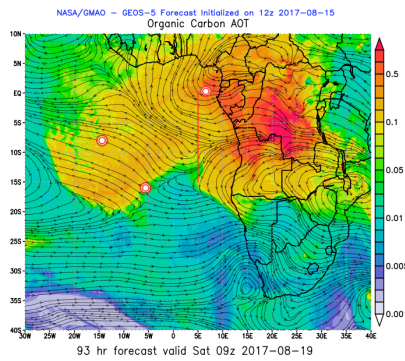
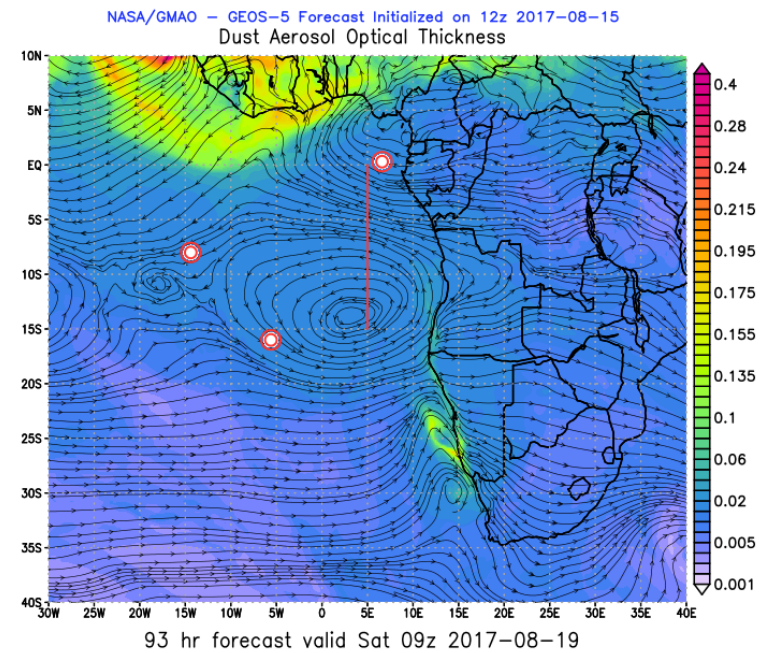
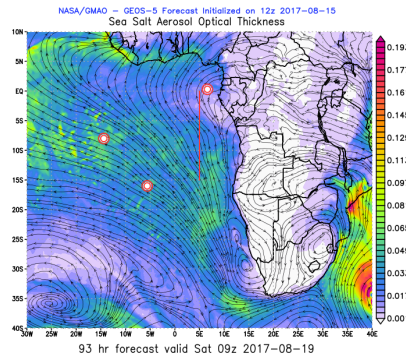
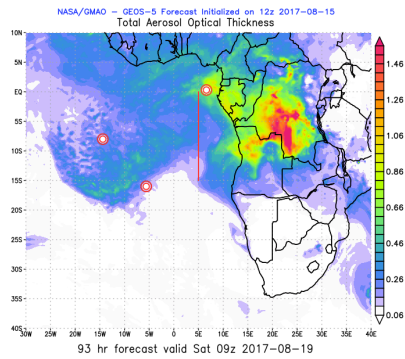


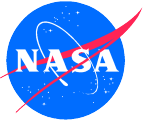
Sat 19 Aug 2017 9Z



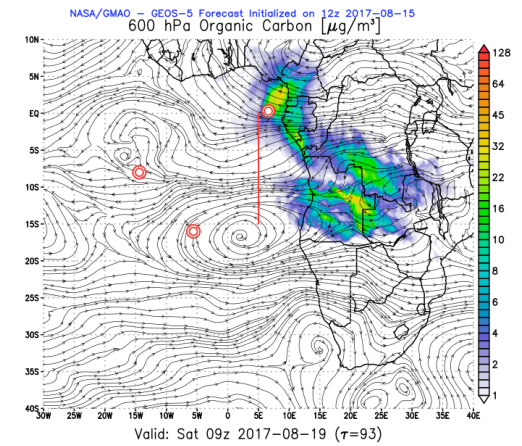
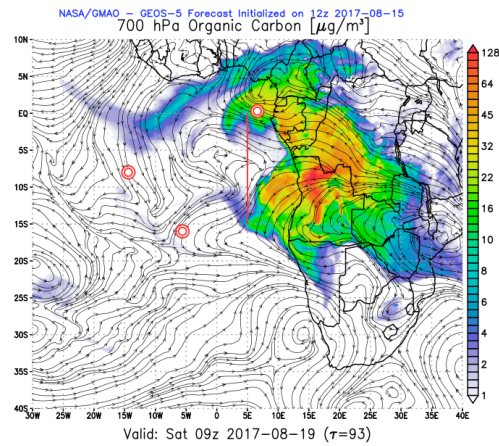
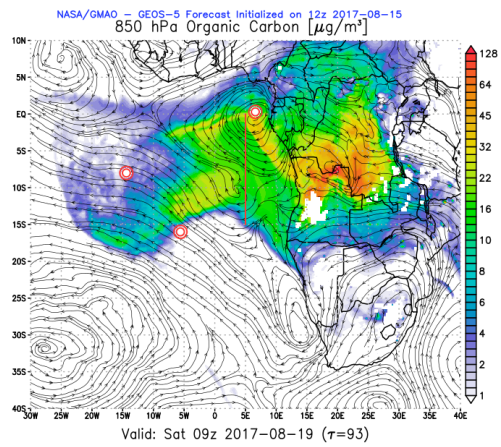


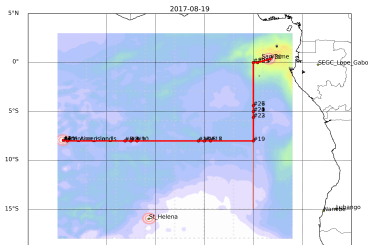
Sat 19 Aug 2017 9Z



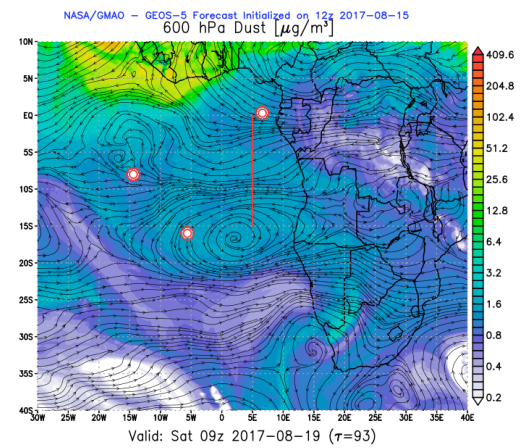
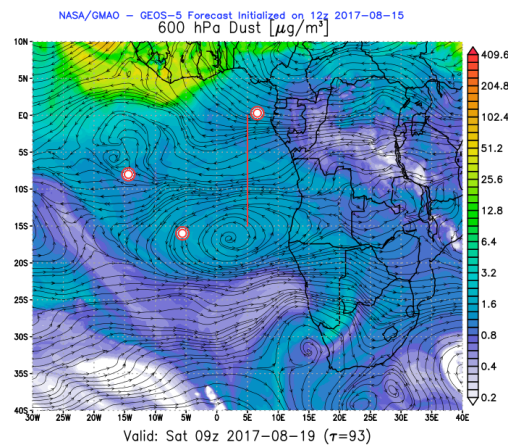
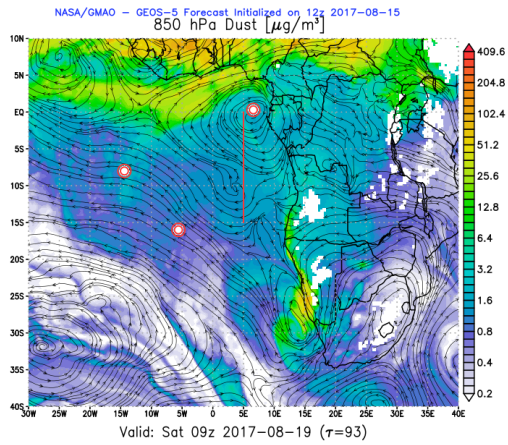


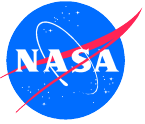
Sat 19 Aug 2017 9Z





Sat 19 Aug 2017 9Z





Cross-sections at 8 S

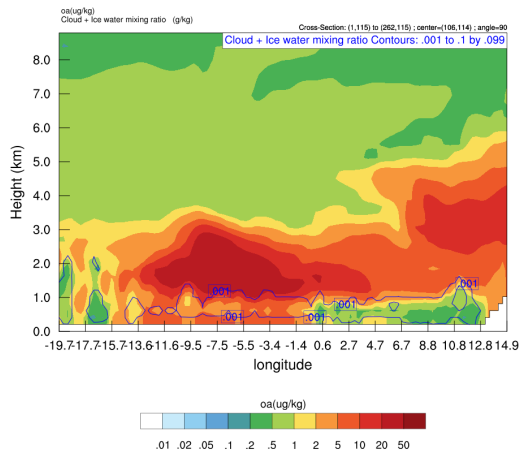
Saturday 19 Aug 2017 12Z



Organic Aerosol

2017-08-19_12

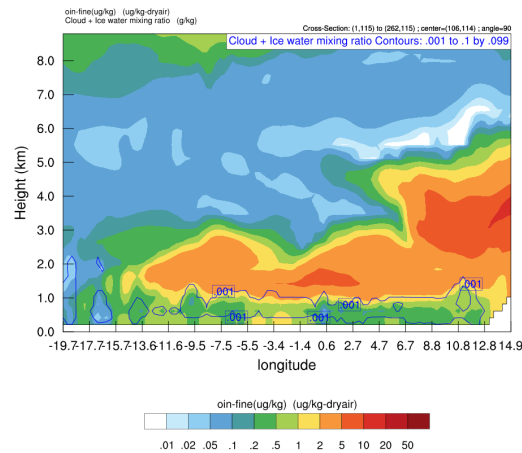
Init: 2017-08-16, 12:00:00



Dust

2017-08-19_12

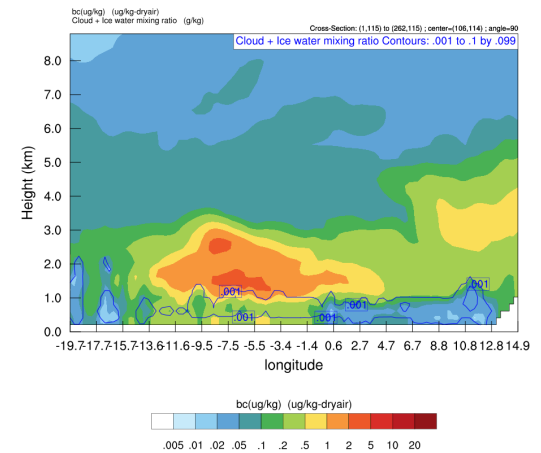
Init: 2017-08-16, 12:00:00



Black carbon

2017-08-19_12

Init: 2017-08-16, 12:00:00





Cross-sections at 8 S

Saturday 19 Aug 2017 12Z



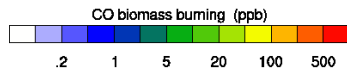
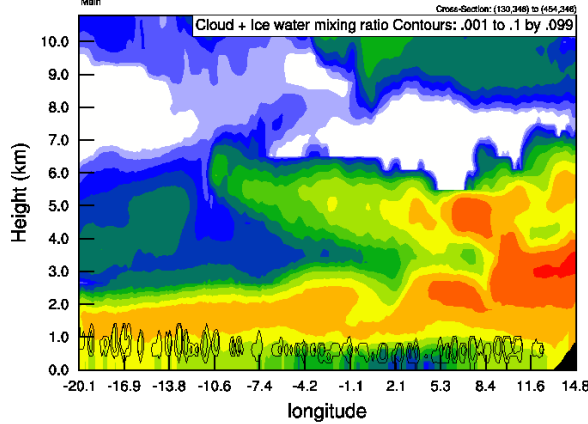
CO from BB

W-E at 8S

Init: 2017-08-12_00:00:00
Valid: 2017-08-19_12:00:00

CO biomass burning (ppb)
Cloud + ice water mixing ratio (g/kg)
Main

Cross-Section: (130,348) to (454,246)



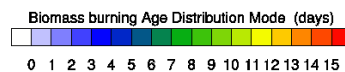
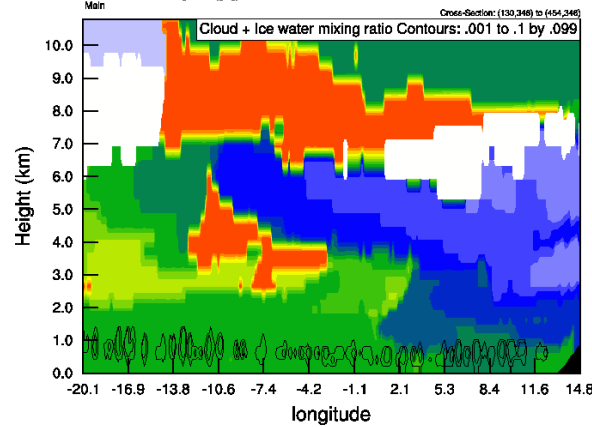
Aerosol age

W-E at 8S

Init: 2017-08-12_00:00:00
Valid: 2017-08-19_12:00:00

Biomass burning Age Distribution Mode (days)
Cloud + ice water mixing ratio (g/kg)
Main

Cross-Section: (130,348) to (454,246)



Rel. Humidity

W-E at 8S

Init: 2017-08-12_00:00:00
Valid: 2017-08-19_12:00:00

Relative Humidity (%)
Cloud + ice water mixing ratio (g/kg)
Main

Cross-Section: (130,348) to (454,246)

