ORACLES Forecast Briefing

Aerosols
Thursday, 24 August 2017
The Aerosol Week
Ascension (OC+BC+SO4 & Dust)
São Tomé (OC+BC+SO4 & Dust)
Lope Gabon 0.2S

Luanda 8.8S
Flight Day (Routine Flight?)

THURSDAY, 24 AUGUST 2017
Thursday, 24 August 2017 12Z

NASA/GMAO – GEOS-5 Forecast Initialized on 18z 2017-08-23
Total Aerosol Optical Thickness

18 hr forecast valid Thu 12z 2017-08-24

Cloud Fraction: low (red), mid (green), high (blue) cloud

Low (red) = High (blue) cloud = magenta
Mid (green) = High (blue) cloud = cyan
Low (red) = Mid (green) cloud = yellow
Thursday, 24 August 2017 12Z

NASA/GMAO - GEOS-5 Forecast Initialized on 18z 2017-08-23

classification: Total Aerosol Optical Thickness

18 hr forecast valid Thu 12z 2017-08-24

NASA/GMAO - GEOS-5 Forecast Initialized on 18z 2017-08-23

Organic Carbon AOT

18 hr forecast valid Thu 12z 2017-08-24

NASA/GMAO - GEOS-5 Forecast Initialized on 18z 2017-08-23

Sulfate AOT

18 hr forecast valid Thu 12z 2017-08-24
24 Aug 2017 12 Z
Sea Salt and OC

NASA/GMAO – GEOS-5 Forecast initialized on 18z 2017-08-23
Sea Salt Aerosol Optical Thickness

NASA/GMAO – GEOS-5 Forecast initialized on 18z 2017-08-23
Organic Carbon AOT
Cross sections – 5 E at 15 Z

Mean BB age

Mode BB age

CO From BB
Thu 24 August 2017 (Extinction)
No Fly Day

FRIDAY, 25 AUGUST 2017
Friday 25 Aug 2017 12Z

NASA/GMAO – GEOS-5 Forecast Initialized on 12z 2017-08-23
Total Aerosol Optical Thickness

48 hr forecast valid Fri 12z 2017-08-25

170825 12. 048 hour forecast for Cloud Fraction (low, mid, and high cloud) – ECMWF

Low (red) = High (blue) cloud = magenta
Mid (green) = High (blue) cloud = yellow
Low (red) = Mid (green) cloud = yellow

Cloud Fraction: low (red), mid (green), high (blue) cloud
Friday 25 Aug 2017 12Z
Fly Day (TBD)

SATURDAY, 26 AUGUST 2017
Saturday, 26 Aug 2017 12Z

NASA/GMAO – GEOS-5 Forecast initialized on 12z 2017-08-23

Sea Salt Aerosol Optical Thickness

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

NASA/GMAO – GEOS-5 Forecast initialized on 12z 2017-08-23

Organic Carbon AOT

72 hr forecast valid Sat 12z 2017-08-26
Sat 26 August 2017 12Z (Concentration)
Cross sections – 5 E and 8 S at 12 Z

CO from BB at 700 mb
Cross sections – 5 E and 8 S at 12 Z

BB age mean at 700 mb

BB Age Distr. Mean 2017-08-26 12

Mean BB age

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Following BB aerosols – 12 Z

Maps show the location and concentration of BB aerosols on Sat 26th 12 Z emitted in different days.

There is no addition of aerosols emitted in other days in this maps
No Fly Day

SUNDAY, 27 AUGUST 2017
Sunday 27 August 2017 12Z

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

Cloud Fraction: low (red), mid (green), high (blue) cloud

Low (red) = High (blue) cloud - respectively
Mid (green) = High (blue) cloud - yellow
Low (red) = Mid (green) cloud - yellow
Sunday 27 August 2017 12Z

NASA/GMAO - GEOS-5 Forecast Initialized on 12z 2017-08-23
Total Aerosol Optical Thickness

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

NASA/GMAO - GEOS-5 Forecast Initialized on 12z 2017-08-23
Sea Salt Aerosol Optical Thickness

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

NASA/GMAO - GEOS-5 Forecast Initialized on 12z 2017-08-23
Organic Carbon AOT

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

NASA/GMAO - GEOS-5 Forecast Initialized on 12z 2017-08-23
Sulfate AOT

96 hr forecast valid Sun 12z 2017-08-27
Sunday 27 August 2017 12Z

NASA/GMAO – GEOS-5 Forecast Initialized on 12z 2017-08-23
Sea Salt Aerosol Optical Thickness

NASA/GMAO – GEOS-5 Forecast Initialized on 12z 2017-08-23
Organic Carbon AOT

96 hr forecast valid Sun 12z 2017-08-27
Fly Day (TBD)

MONDAY, 28 AUGUST 2017
Monday 28 August 2017 12Z
Monday 28 August 2017 12Z