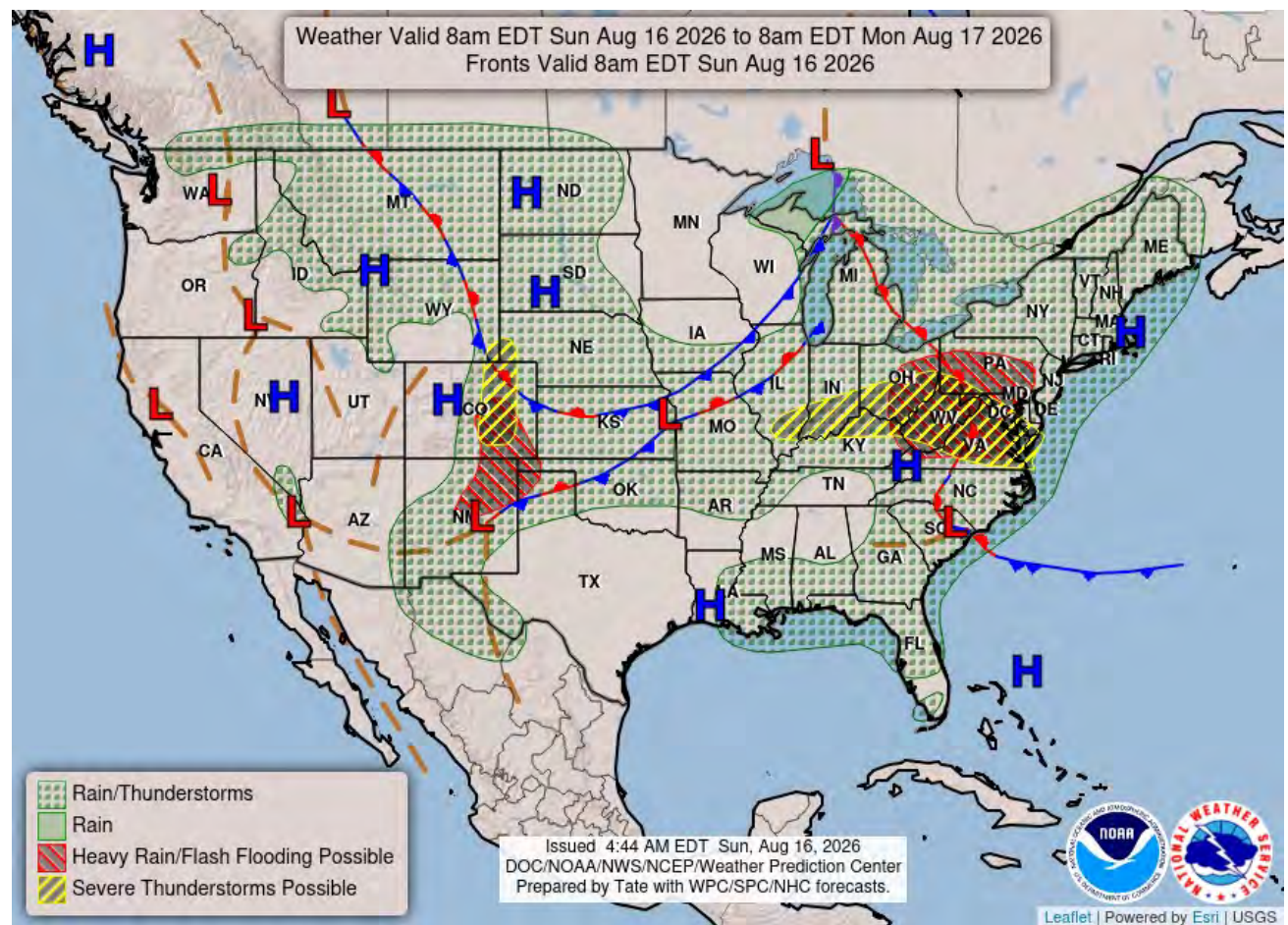


SABRE Forecast Discussion 08/16/2026

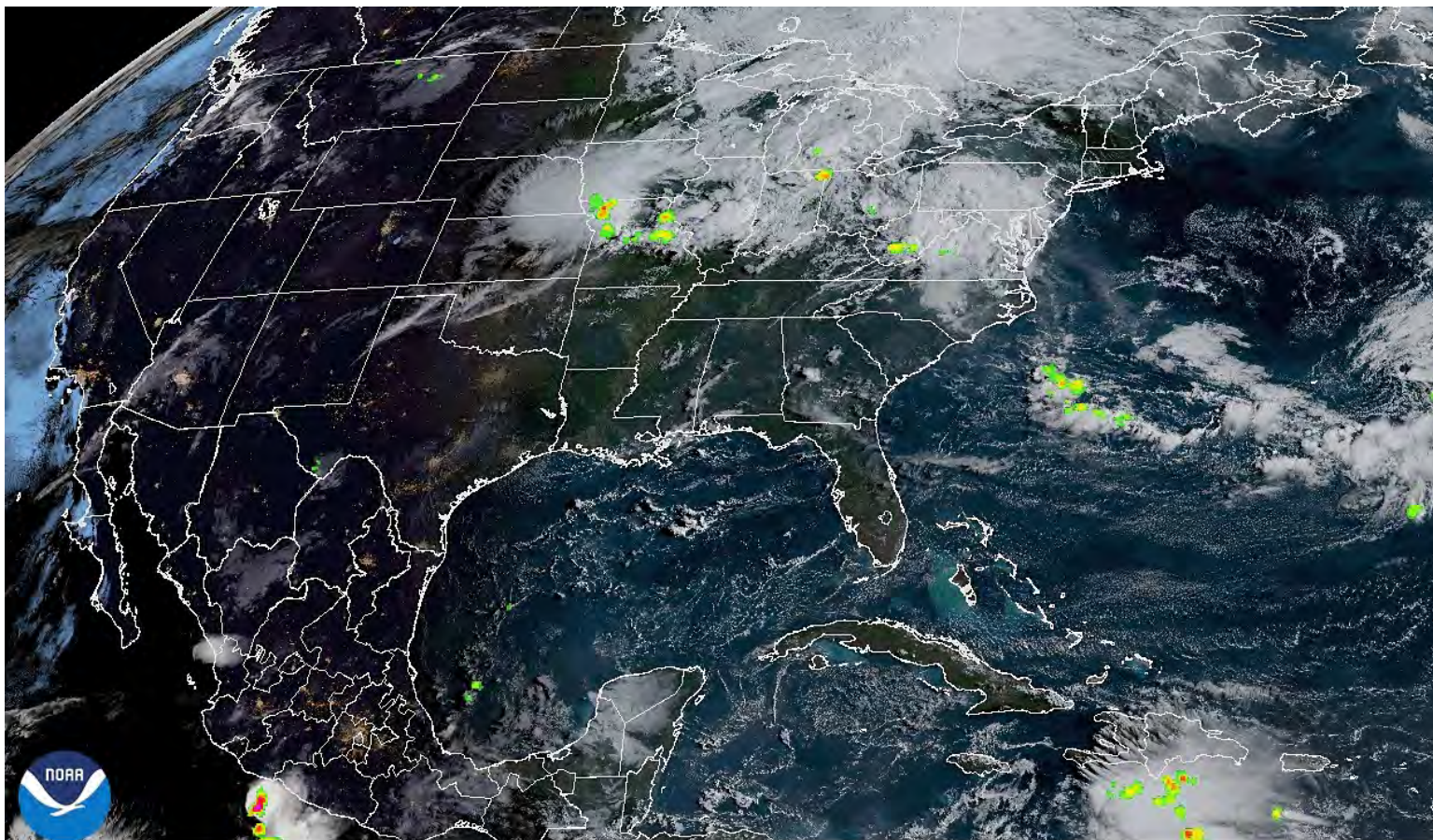
Surface Chart for
Today

Severe thunderstorms and flood
risk for mid-Atlantic/CO front
range

Clear in Houston



Today's Visible Satellite Images



16 Aug 2026 12:56 - NOAA/NESDIS/STAR - GOES-G19 - GLM FED

Small thunderstorms popping up in the Gulf but generally clear

Houston Forecast

Today	Tonight	Monday	Monday Night
			
High: 97 °F	Low: 78 °F	High: 97 °F	Low: 79 °F
Sunny	Mostly Clear	Becoming Sunny	Mostly Clear

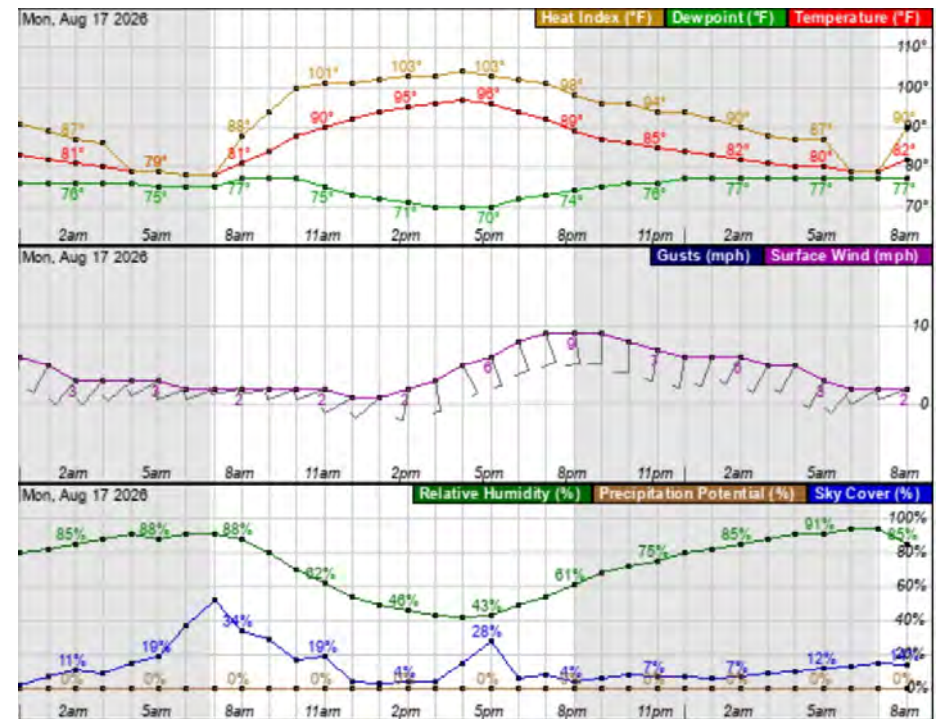
Houston looks hot, dry, and sunny on Monday 08/17

Heat index ~103F

KEFD TAF

METAR KEFD 161354Z 26004KT 10SM SCT022 29/24 A3016

TAF KEFD 161200Z 1612/1718 VRB06KT 9999 SCT030 QNH3013INS
 TEMPO 1612/1615 VRB03KT 8000 BR BKN025 TX34/1621Z TN25/1711Z

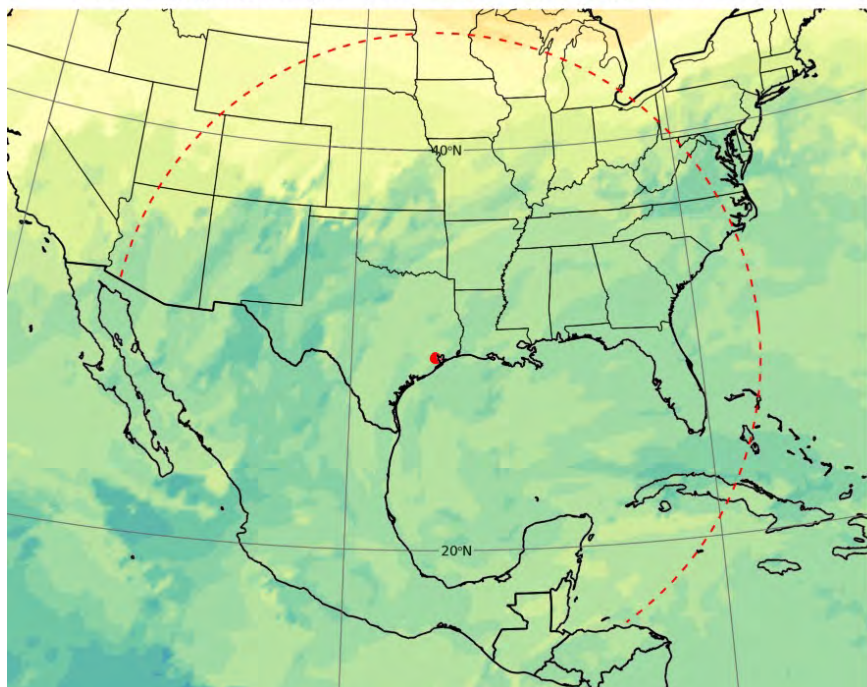


Upper Level Forecasts for Monday 08/17/2026

Tropopause 15Z (10a local)

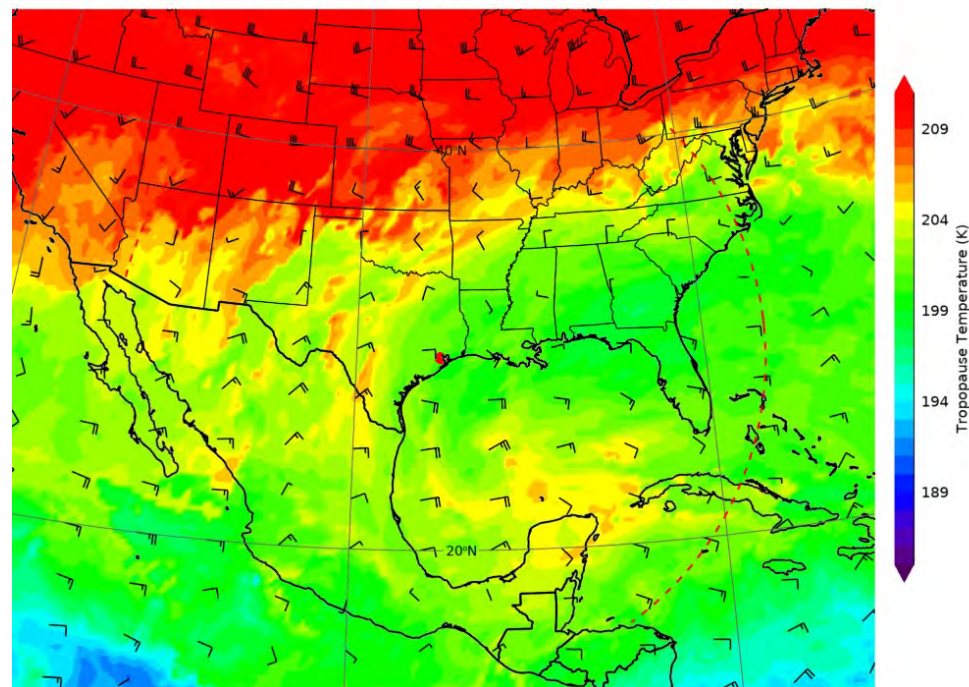
Pressure

NCEP Tropopause Height Init: 2026081612 Valid: 2026081715



Temperature

NCEP Tropopause Temperature Init: 2026081612 Valid: 2026081715

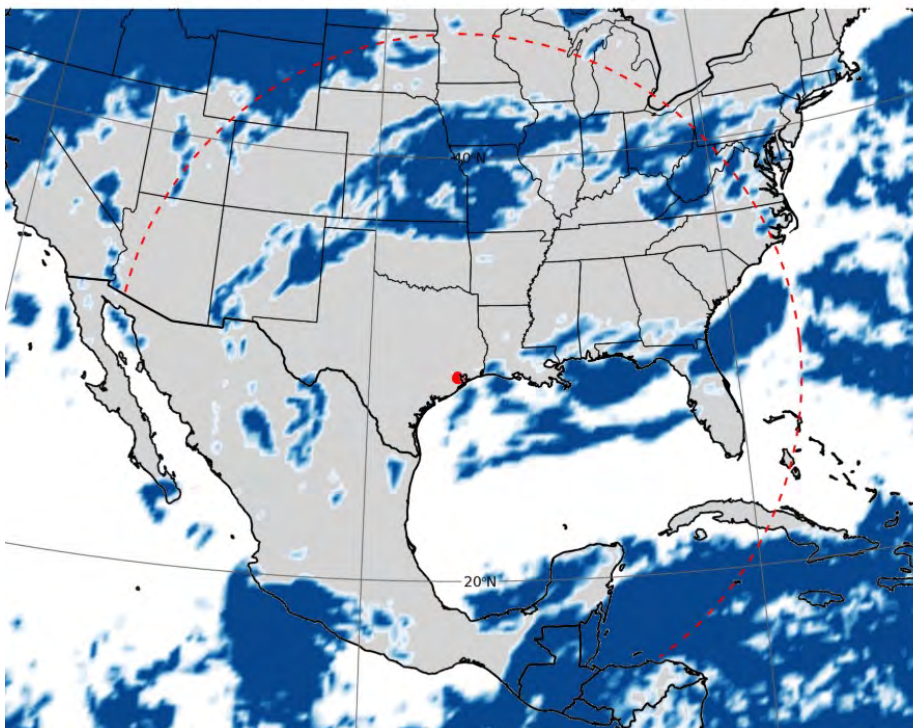


Tropopause heights near 15-16km, but go to ~13 km north of Kansas. Tropopause temperature ~199 K; warmer to the north.

Cloud Cover 18Z (1p local)

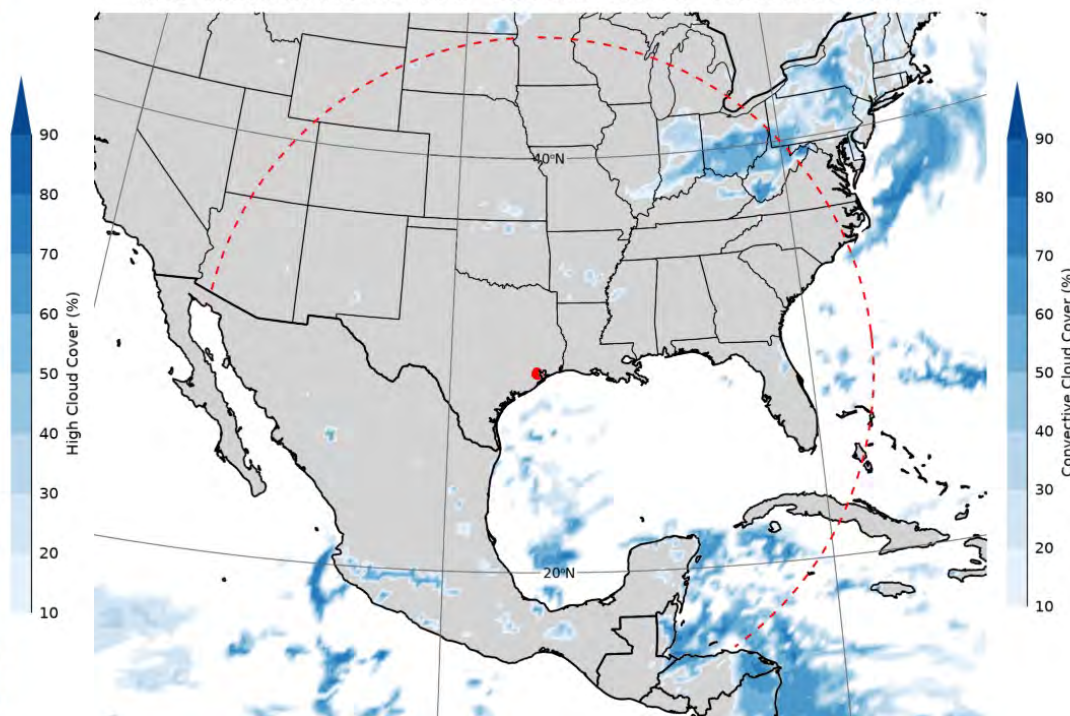
High Clouds

NCEP High Cloud Cover Init: 2026081612 Valid: 2026081718



Convective

NCEP Convective Cloud Cover Init: 2026081612 Valid: 2026081718

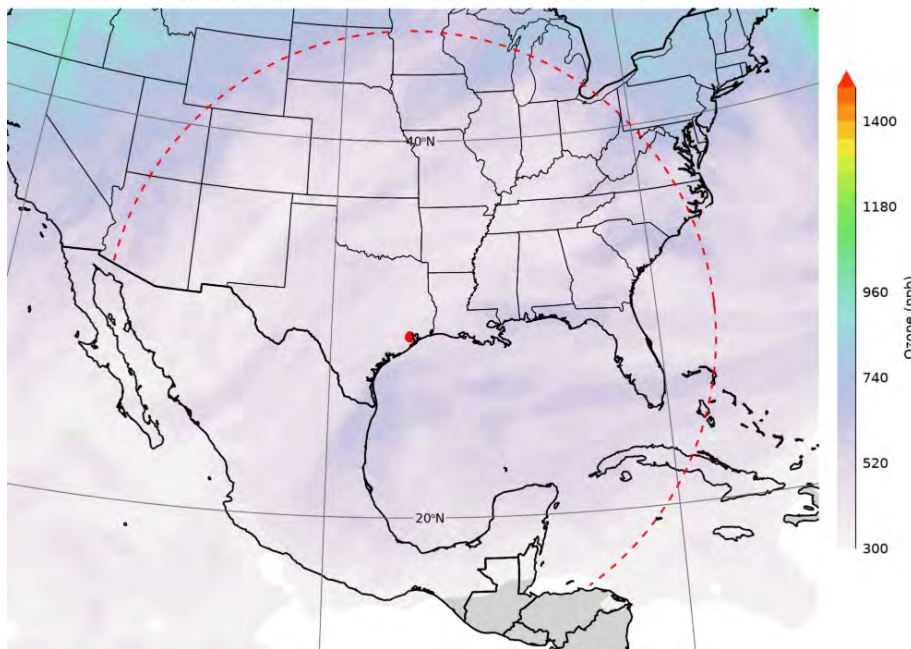


High/cirrus clouds along Gulf coast and near Yucatan. Some small coverage of convective clouds east of Mexico in Gulf.

Ozone 15Z (10a local)

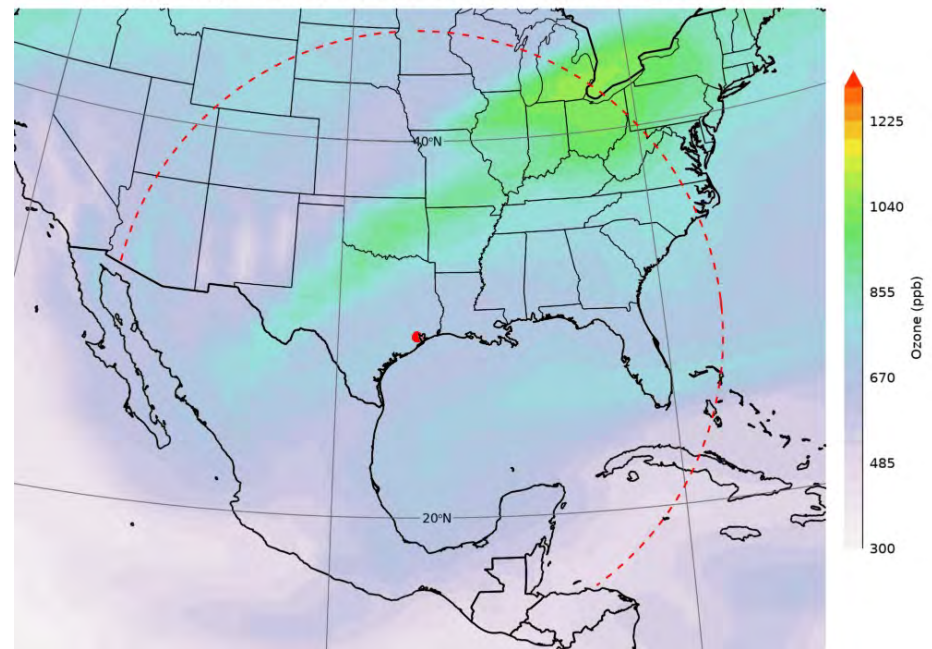
GEOS O3 85 hpa

GEOS Ozone 85 hPa Init: 2026081509 Valid: 2026081715



WACCM O3 85 hpa

WACCM Ozone 85 hPa Init: 2026081500 Valid: 2026081715

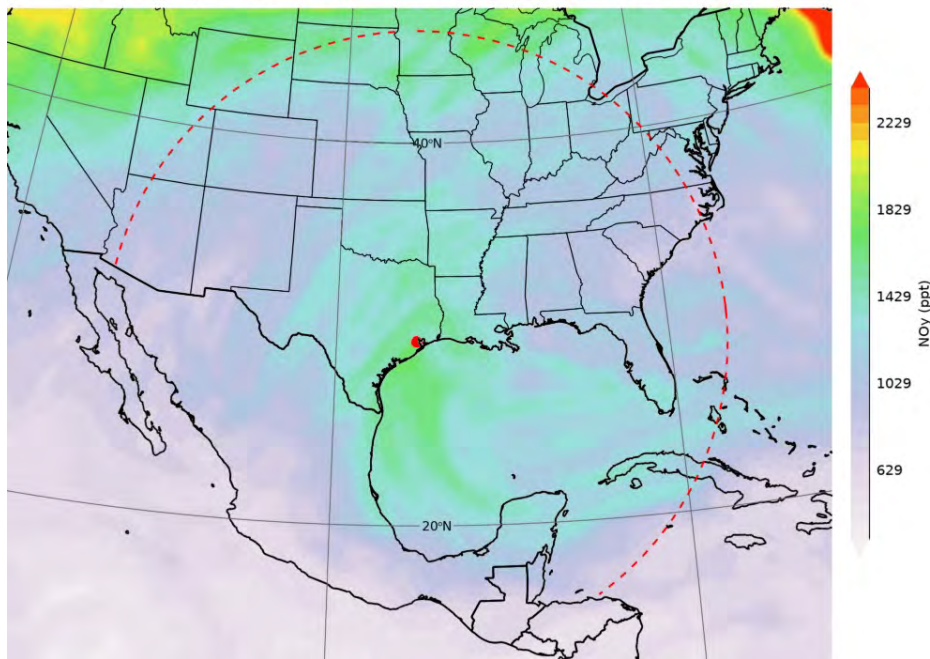


GEOS shows generally low amounts of ozone over most of CONUS.
WACCM shows slightly more to the NE of Houston

NOy & CO

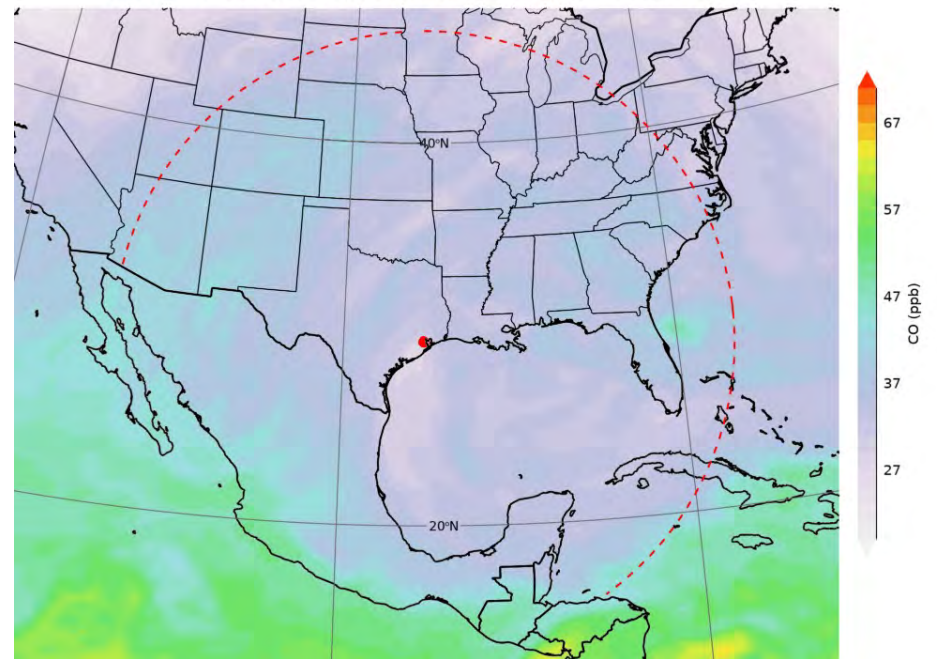
GEOS NOy 100 hpa

GEOS NOy 100 hPa Init: 2026081509 Valid: 2026081715



GEOS CO 100 hpa

GEOS CO 100 hPa Init: 2026081509 Valid: 2026081715

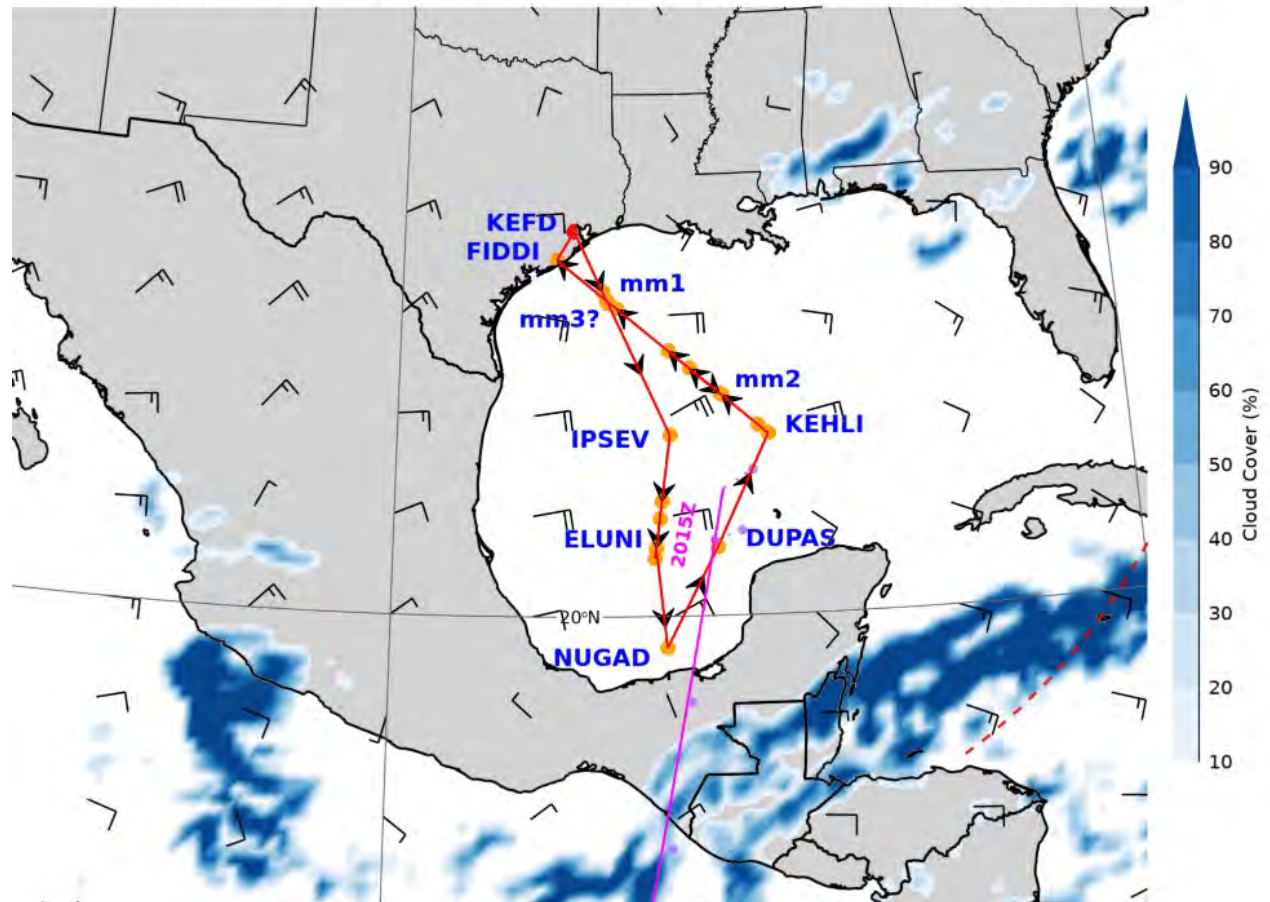


Flight Plan for test flight 08/17/2026

NCEP Cloud Cover 100 hPa Init: 2026081612 Valid: 2026081715

Goals:

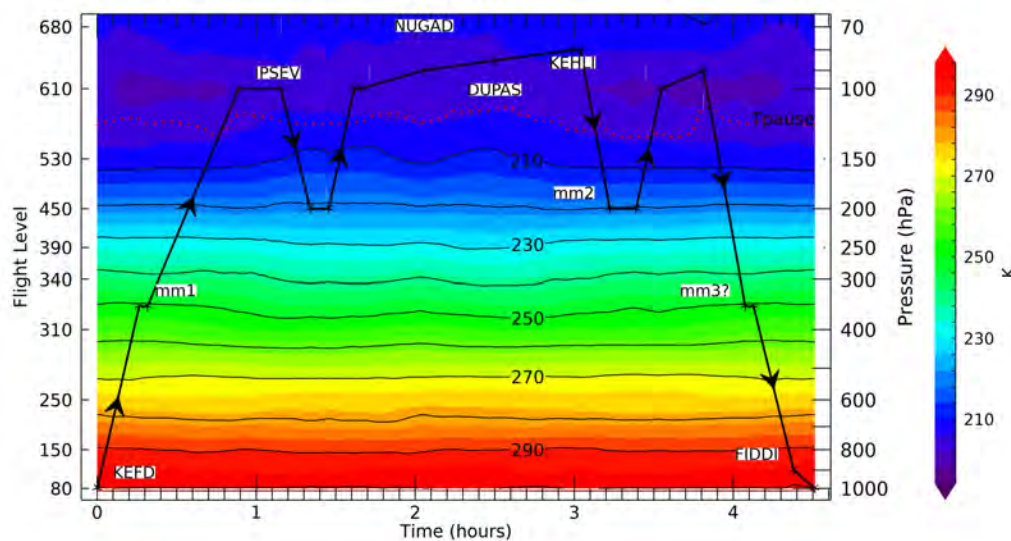
- Check instruments
- 2-3 MMS maneuvers (either/both 33 or 36 km, one at 45 km)
- 2 vertical profiles
- Correspondence with 2015Z Earthcare track



Flight Plan Curtains 08/17

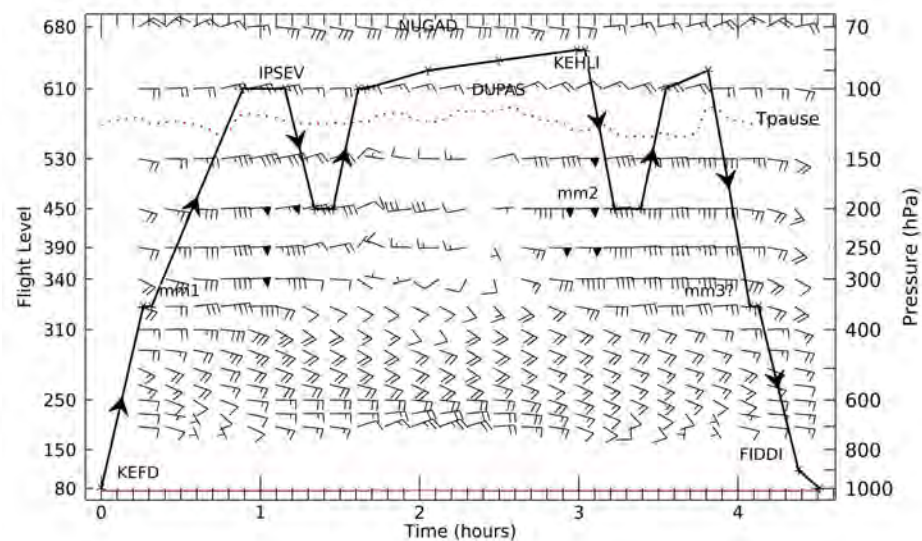
Temperature

NCEP Temperature Init:2026081612 Valid Time:2026081715



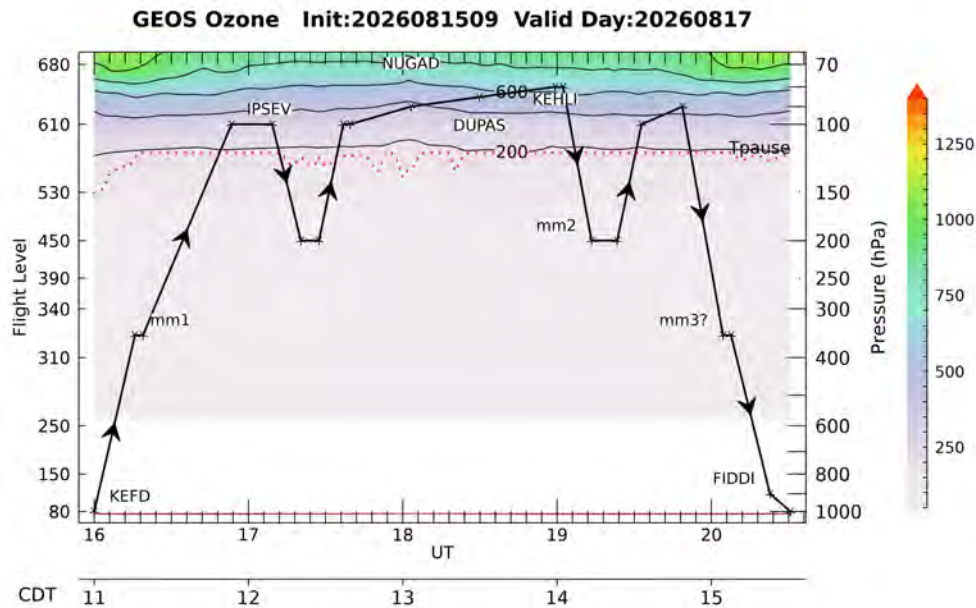
Winds

NCEP Wind Flags Init:2026081612 Valid Time:2026081715

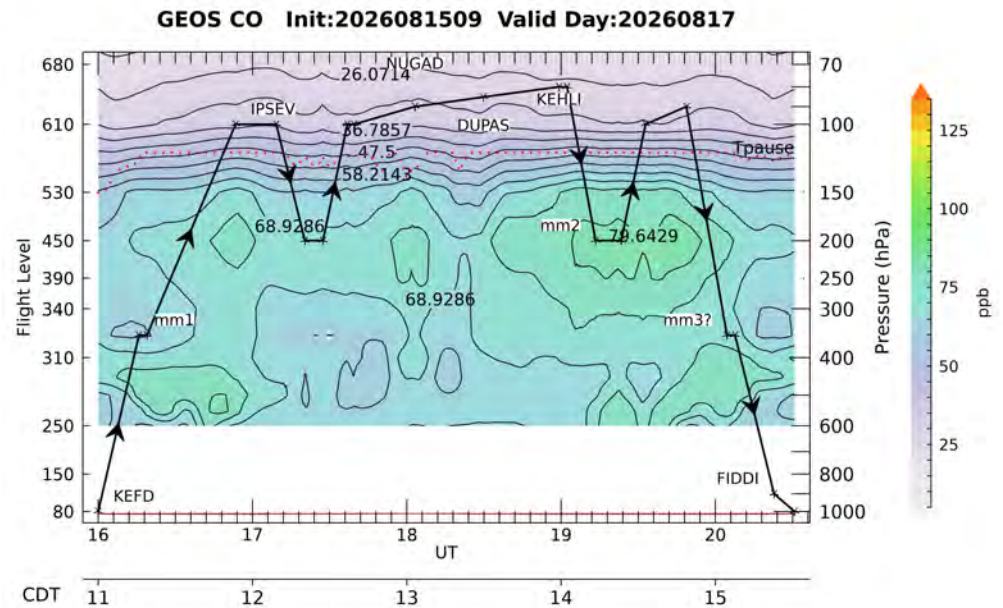


Flight Plan Curtains for Ozone and CO

GEOS ozone



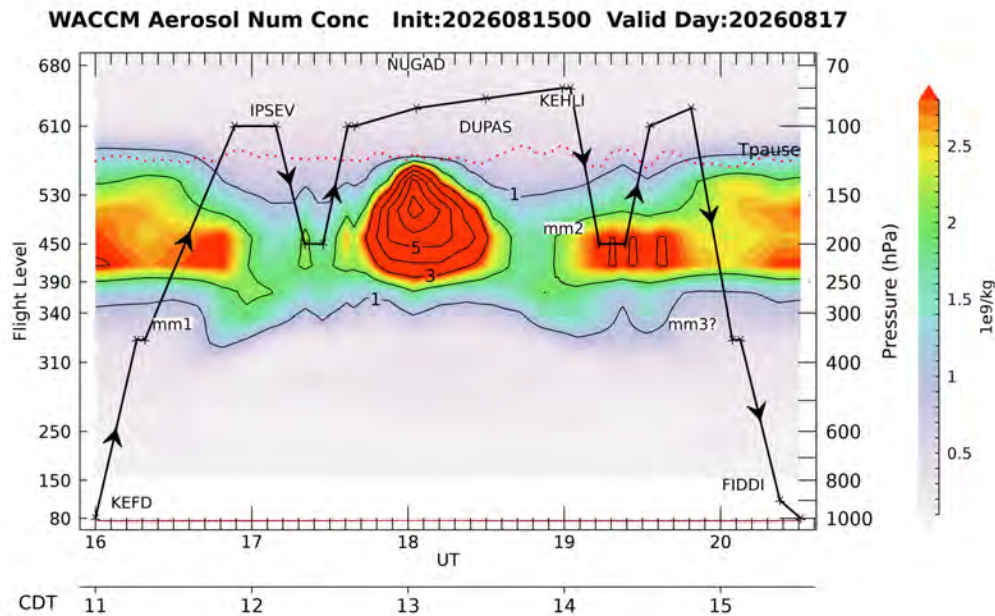
GEOS CO



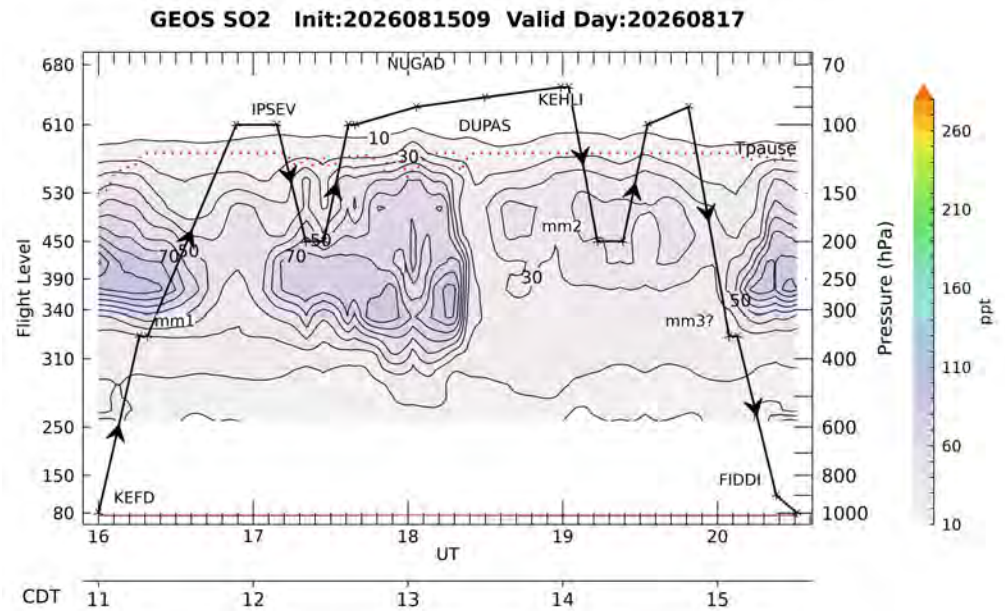
We won't see very high levels of ozone at all; some typical levels of CO at the bottom of vertical profiles.

Flight Plan Curtains for NPF and SO₂

WACCM NPF

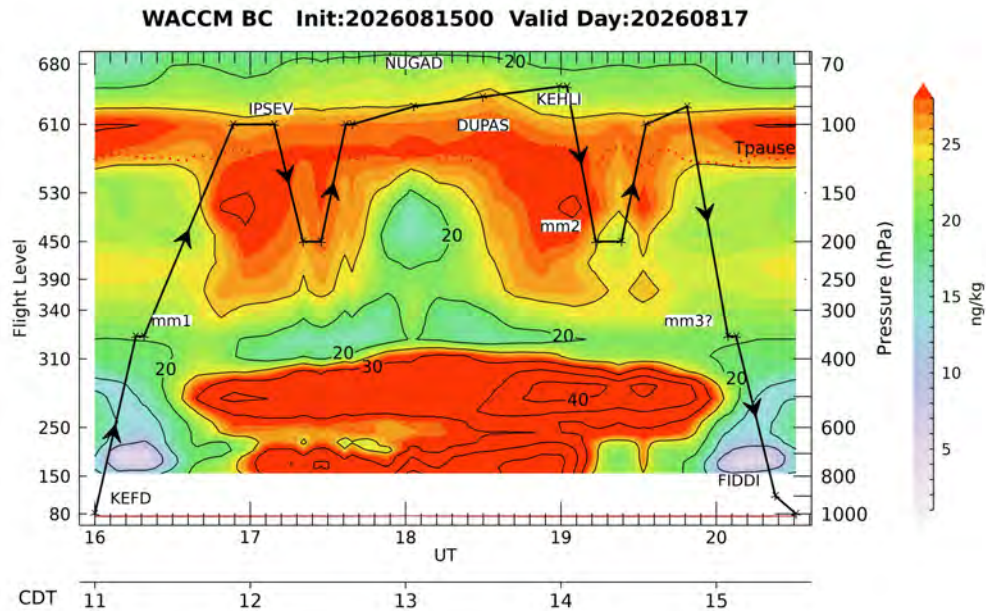


GEOS SO₂

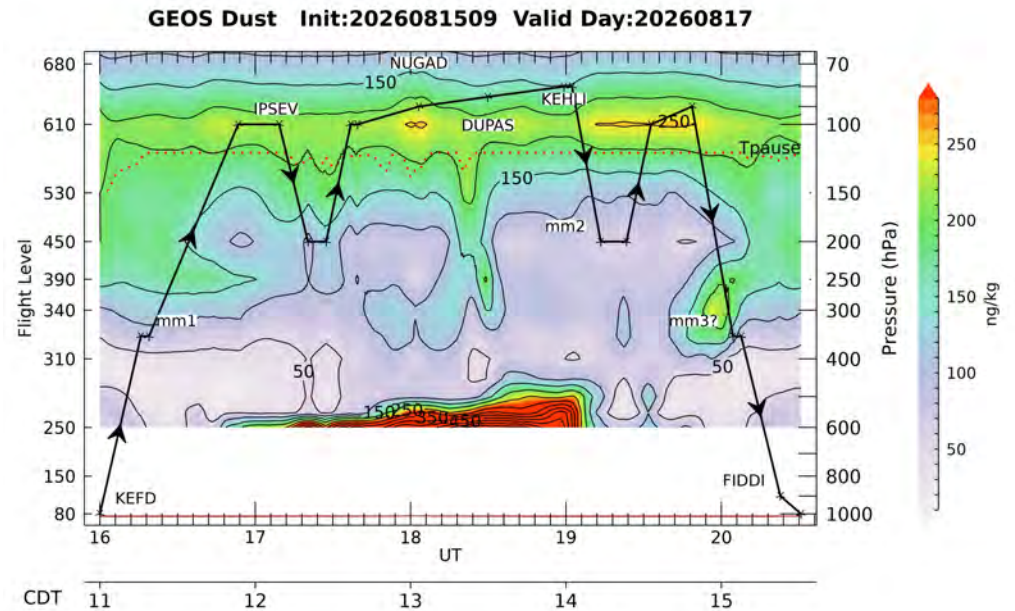


Flight Plan Curtains for BC and Dust

WACCM BC



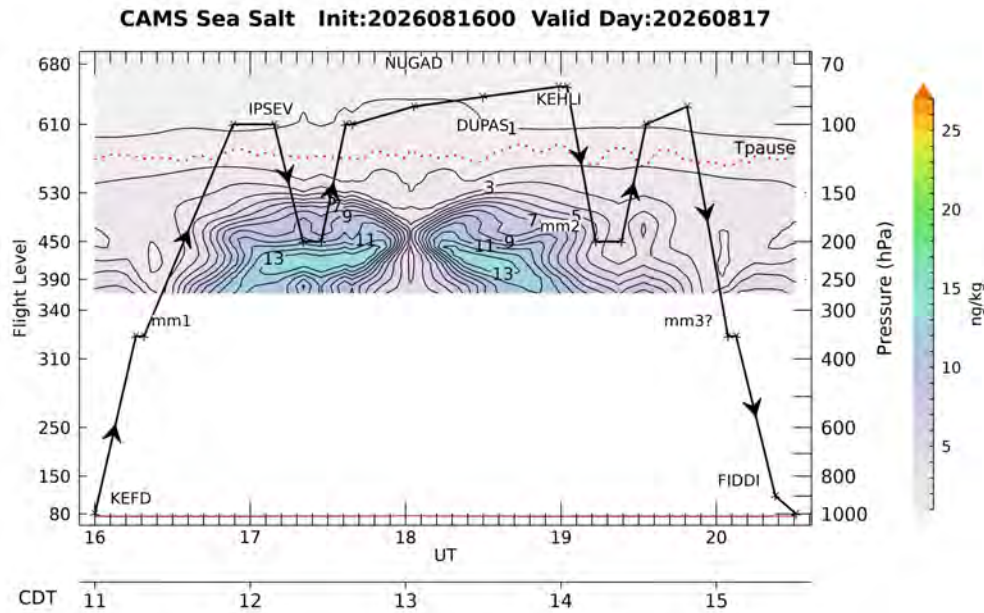
GEOS Dust



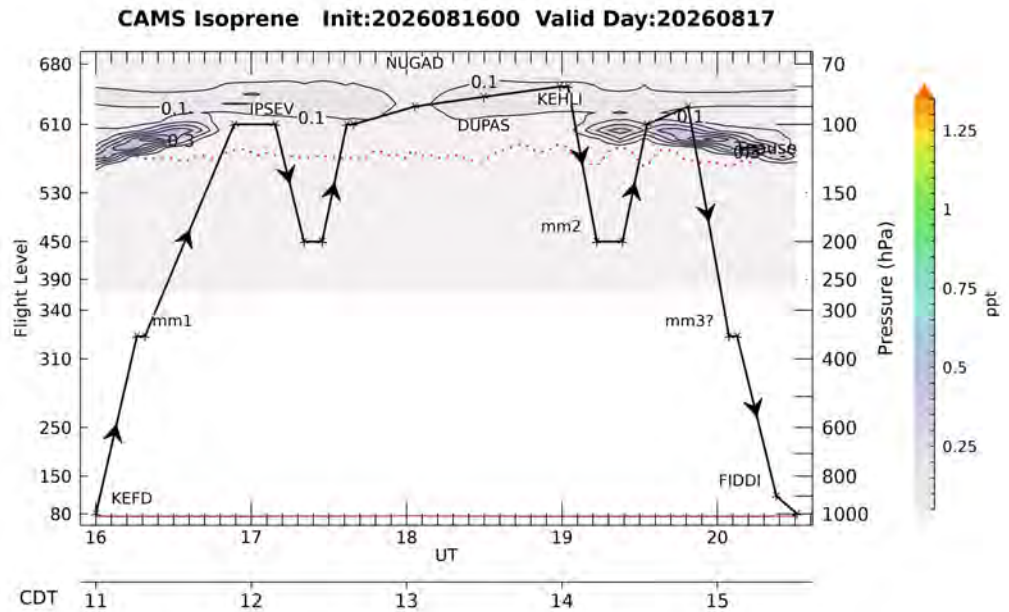
WACCM predicts BC and GEOS predicts dust near and just above the tropopause;
both features are questionable

Flight Plan Curtains for sea salt and isoprene

CAMS sea salt



CAMS isoprene



Some possible sea salt during vertical profiles. Very small amounts of isoprene suggests some convective transport.