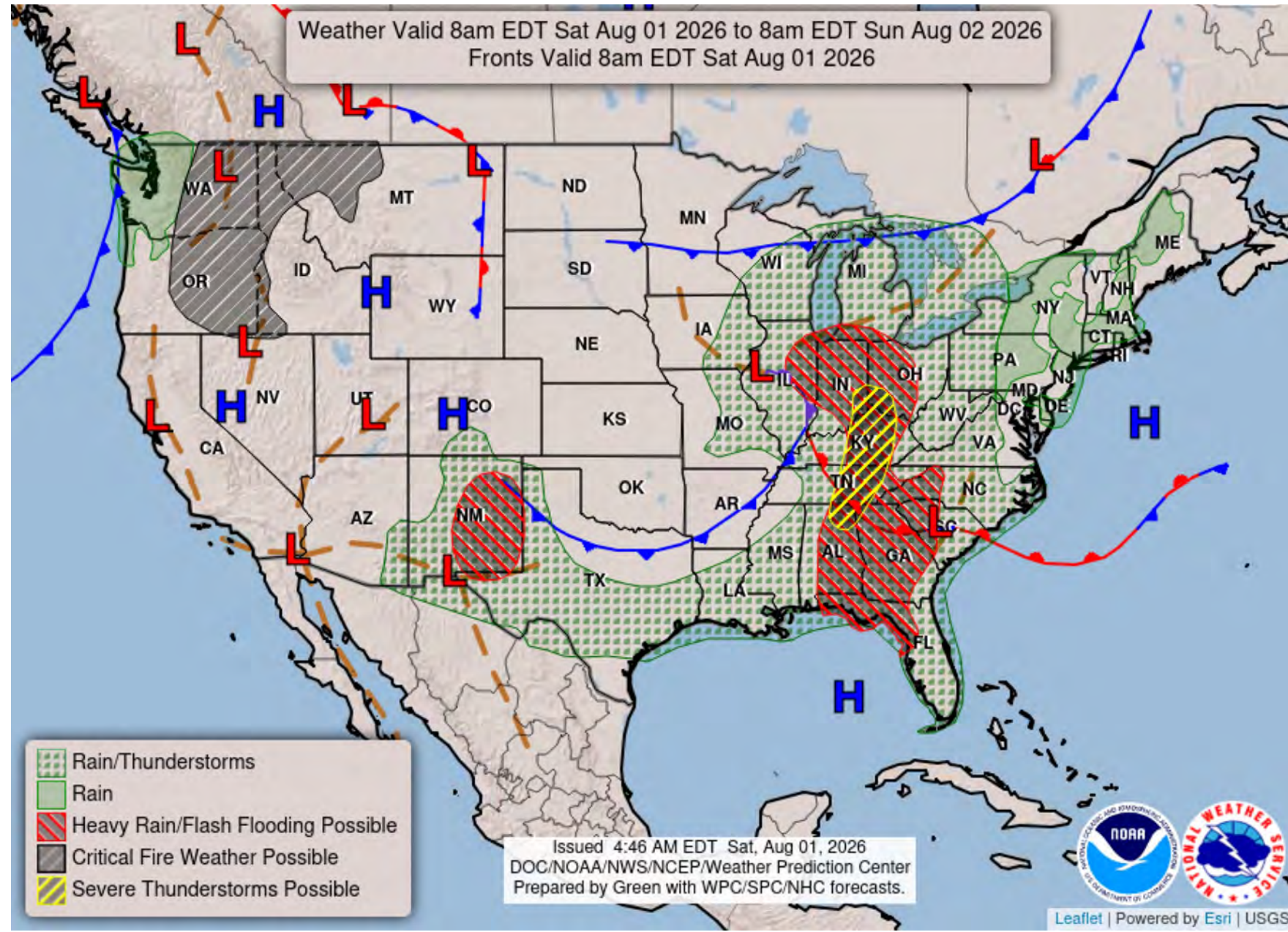


SABRE Forecast Discussion 08/01

Surface Chart for Today

Front will be over north TX but won't affect the weather in Houston, still hot and dry.

Surface low over Illinois with region of intense convection south of the Great Lakes all the way to the Gulf.



Houston Forecast

Extended Forecast for Houston TX



[Click here for hazard details and duration](#)

Today



High: 99 °F

Hot

Heat Advis...

Tonight



Low: 82 °F

Slight Chance
T-storms then
Partly Cloudy

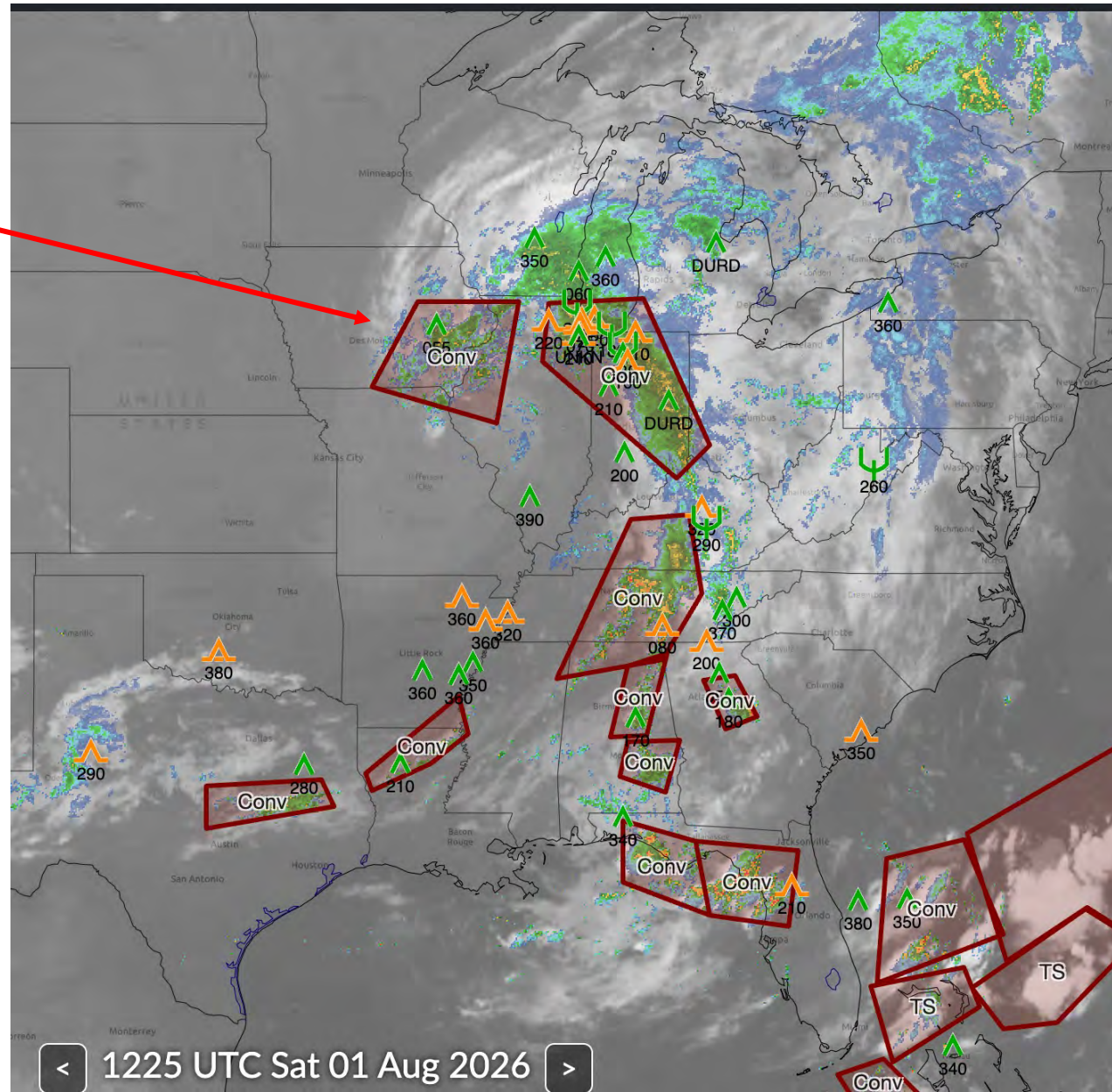
TAF KEFD · Ellington Airport

Valid from July 31, 2026 23:00 to August 2, 2026 05:00

[illegible]

This Morning's IR Satellite Image

Highly active thunderstorm and cloud region in Midwest with sigmets up to 45kft this morning.



Upper Level Forecasts for Flight on Thursday 08/01

Flight Plan 08/01

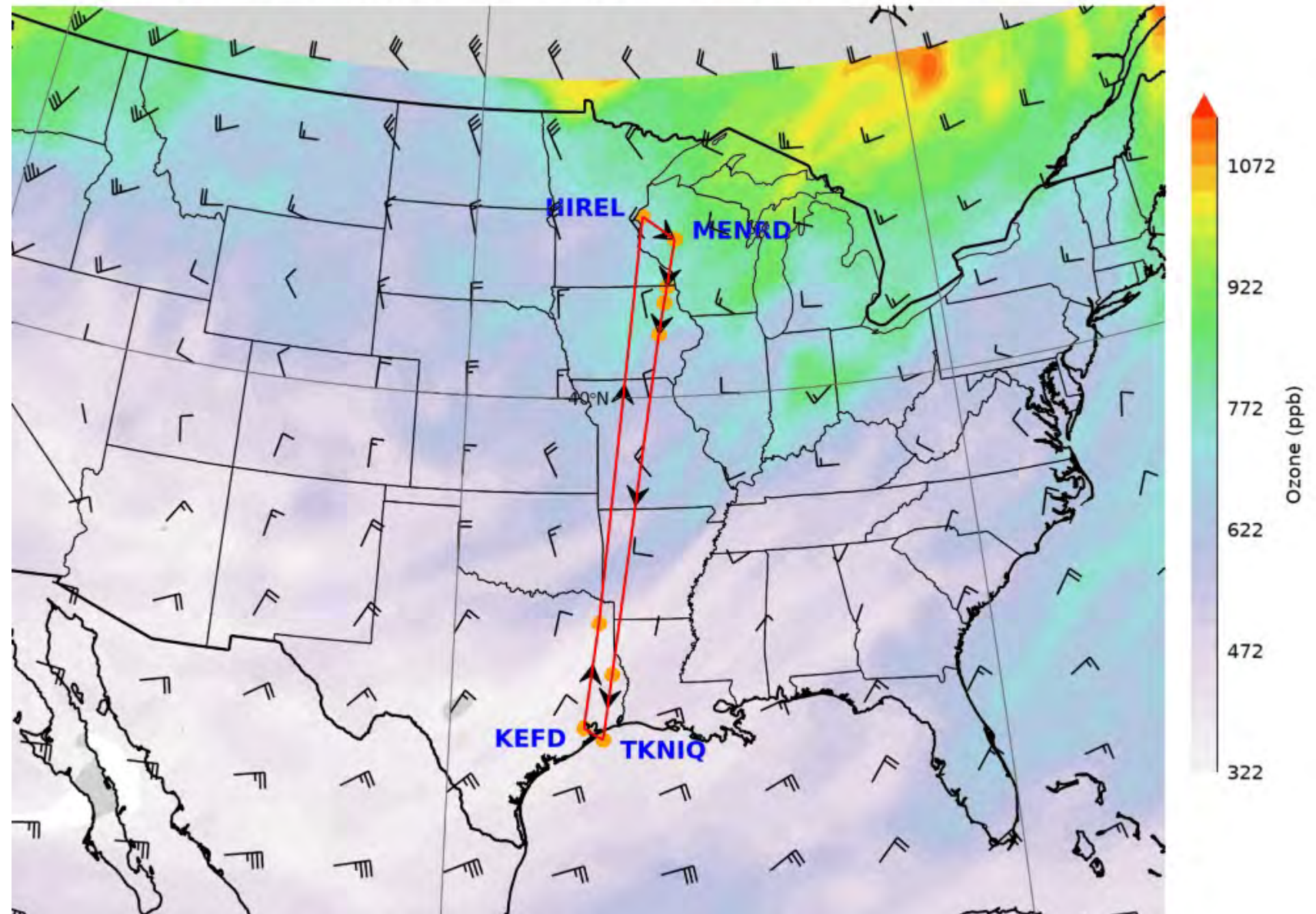
GEOS Ozone 85 hPa Init: 2026073109 Valid: 2026080118

North as far as we can go

Flight time ~6 hours

Main goals:

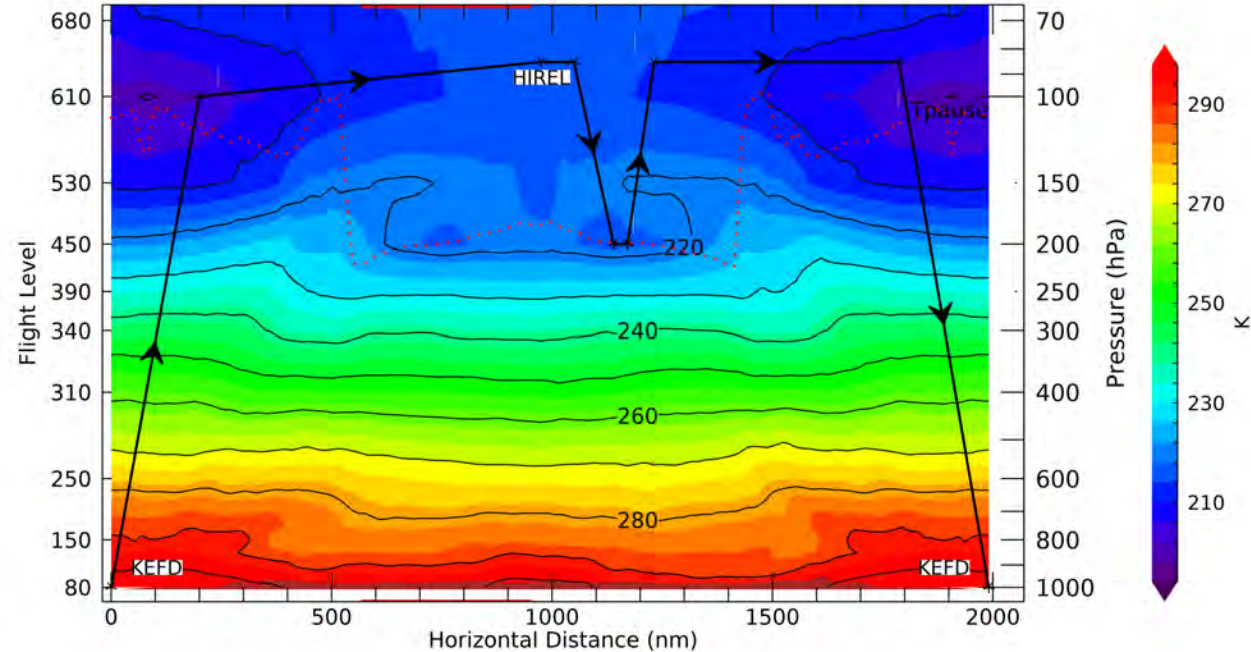
- Sample as deep into the stratosphere as possible based on forecast of upper level trough over eastern US.
- Vertical profile through lower stratosphere down to tropopause region to sample cirrus outflow.



Flight Plan Curtains 08/01

Temperature

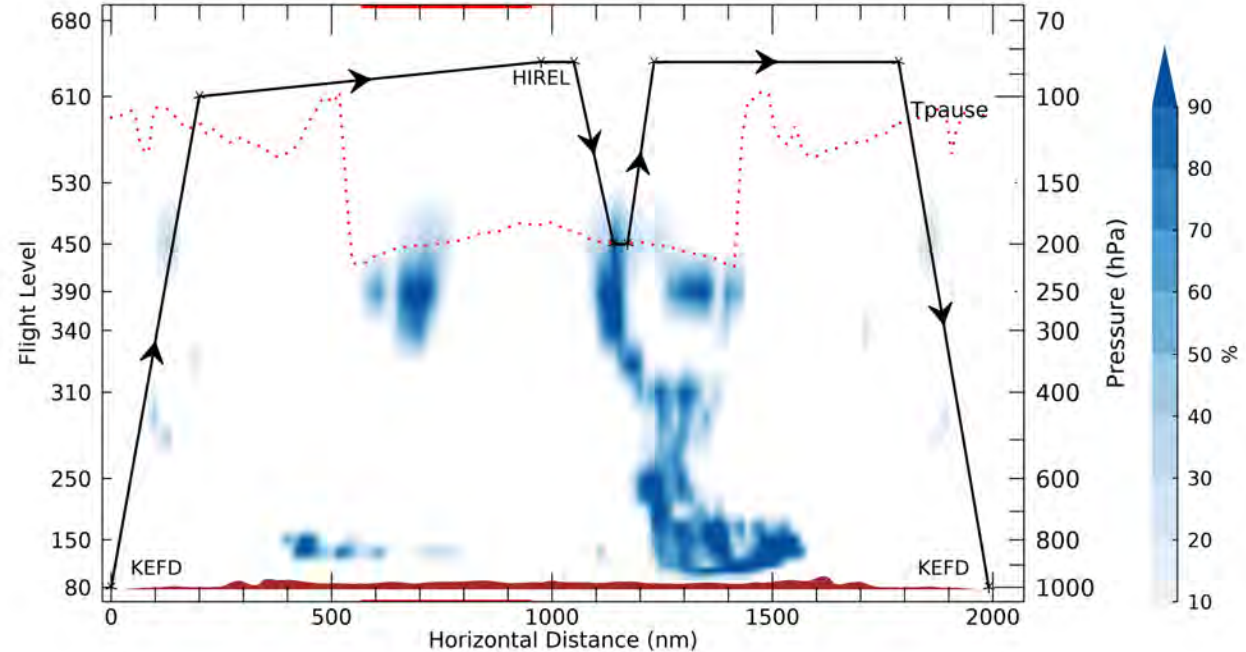
NCEP Temperature Init:2026080106 Valid Time:2026080118



Relatively warm tropopause and lower strat temps in the upper trough (210-220K) that will limit plane max altitude.

Clouds

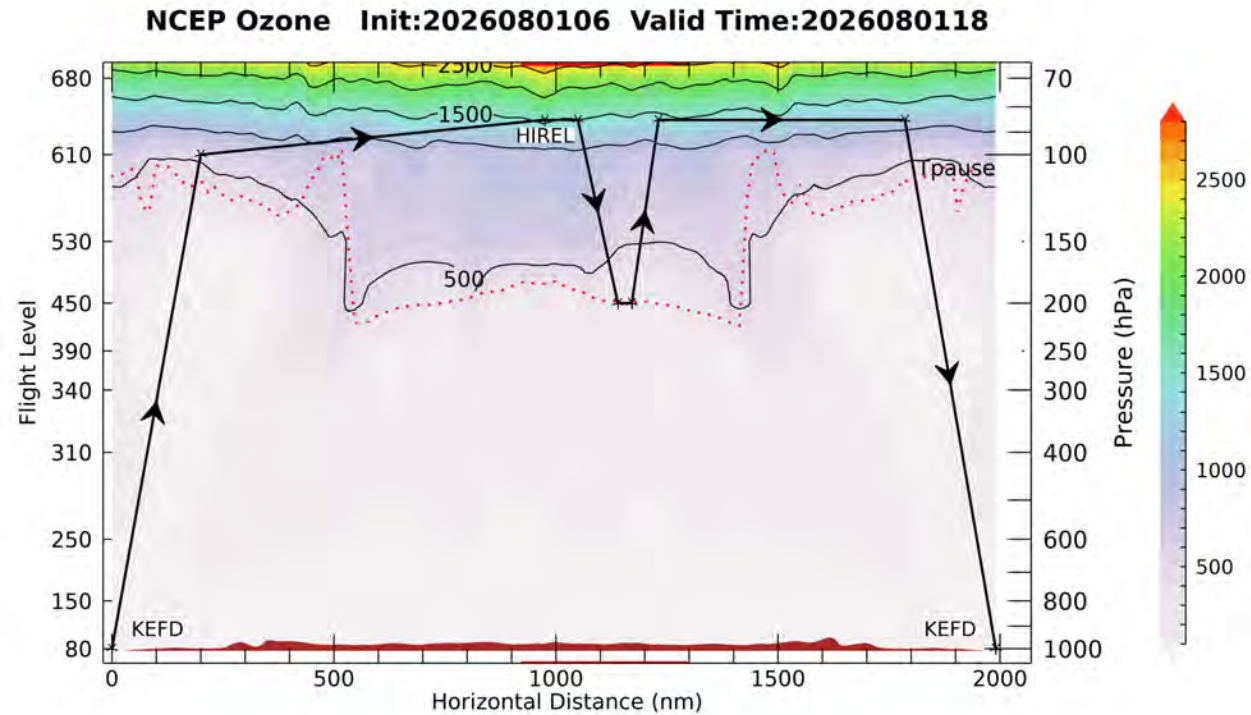
NCEP Cloud Cover Init:2026080106 Valid Time:2026080118



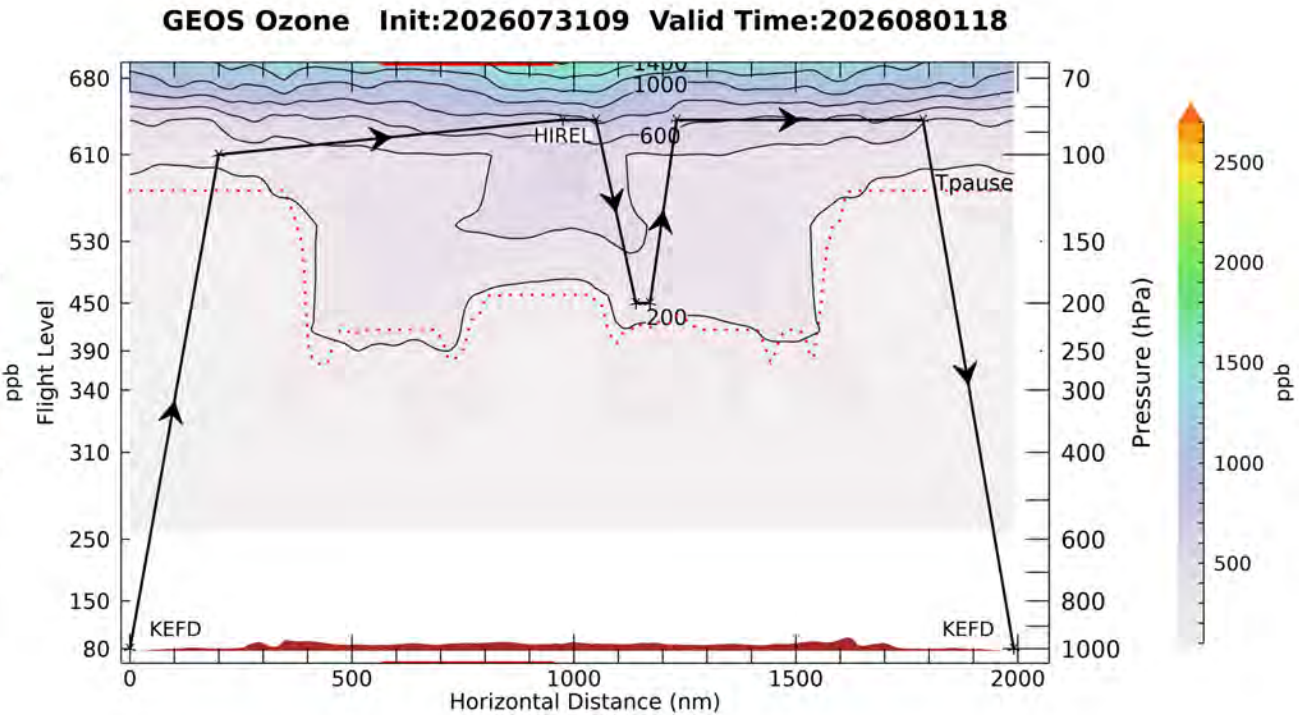
Deep convection and cirrus around frontal region south of Great Lakes. Dip will try to target cirrus outflow.

Flight Plan Curtains 08/01

NCEP Ozone



GEOS Ozone



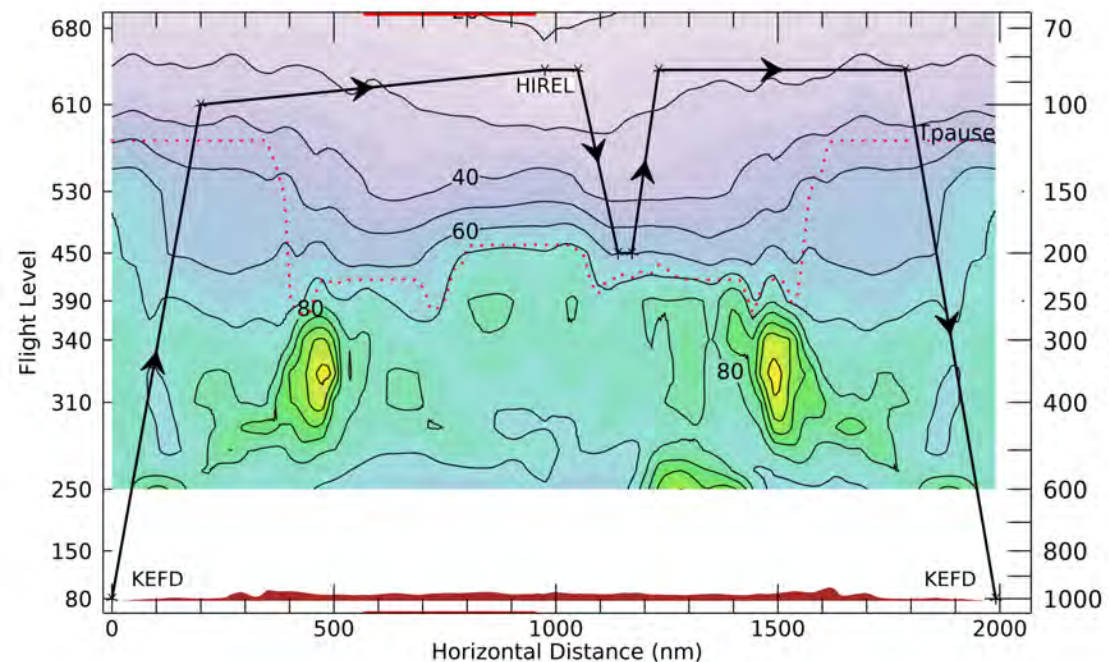
NCEP and GEOS ozone agree well in structure of ozone but not magnitude.

Flight Plan Curtains 08/01

GEOS CO

GEOS CH₄

GEOS CO Init:2026073109 Valid Time:2026080118



GEOS CH₄ Init:2026073109 Valid Time:2026080118

