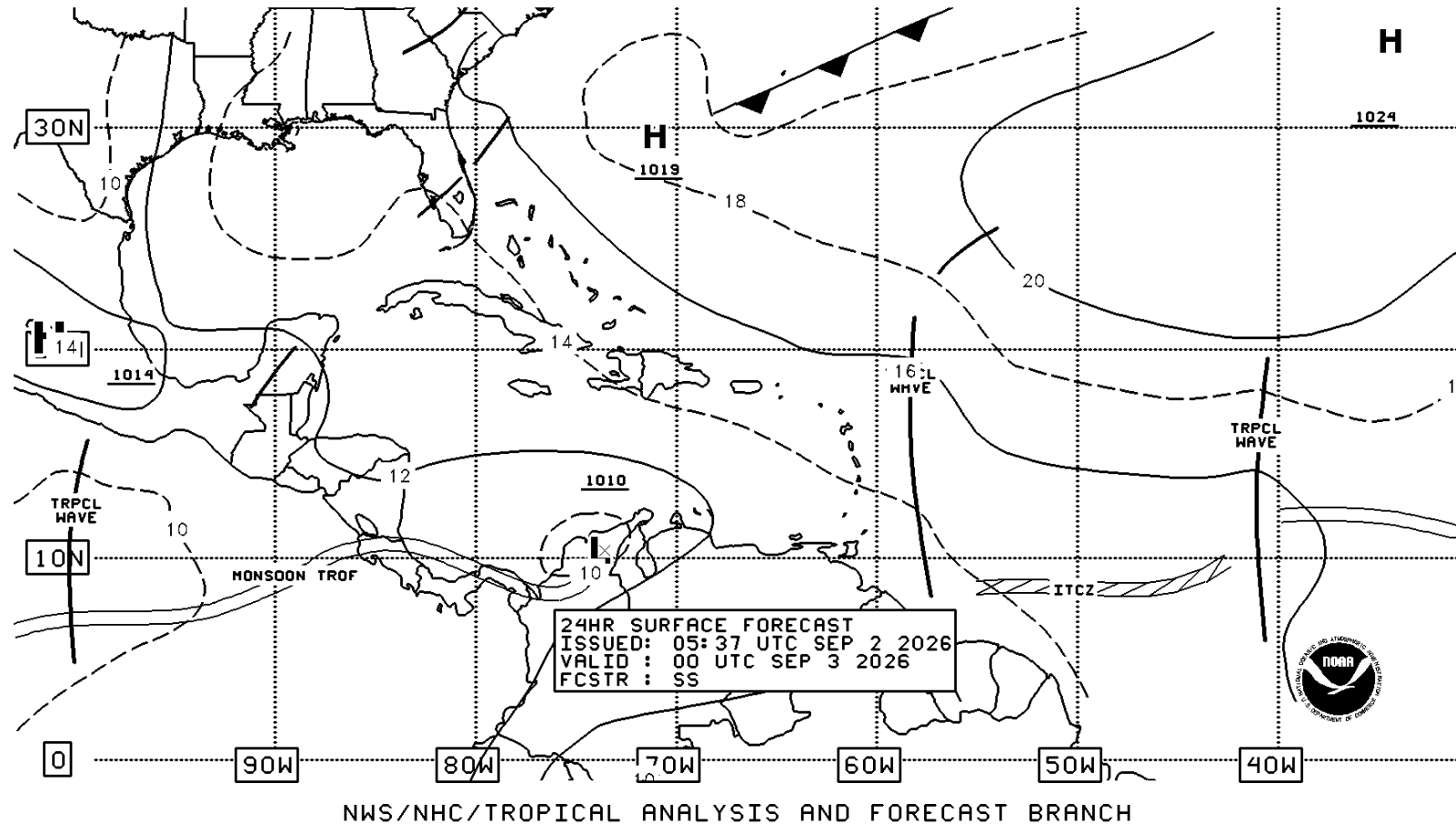


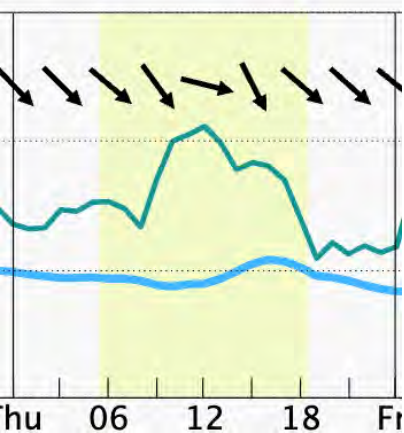
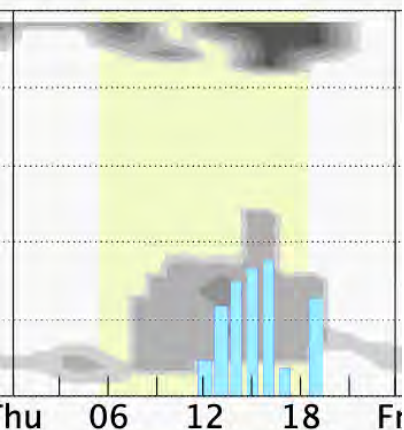
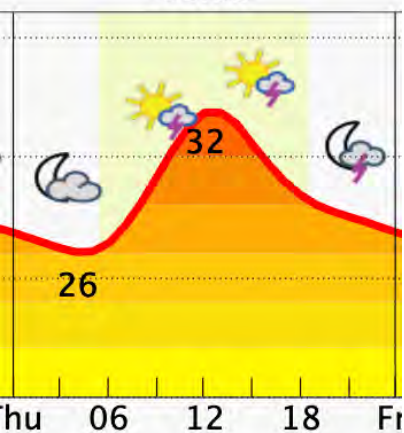
SABRE Forecast Discussion 09/02/2026

Surface Chart



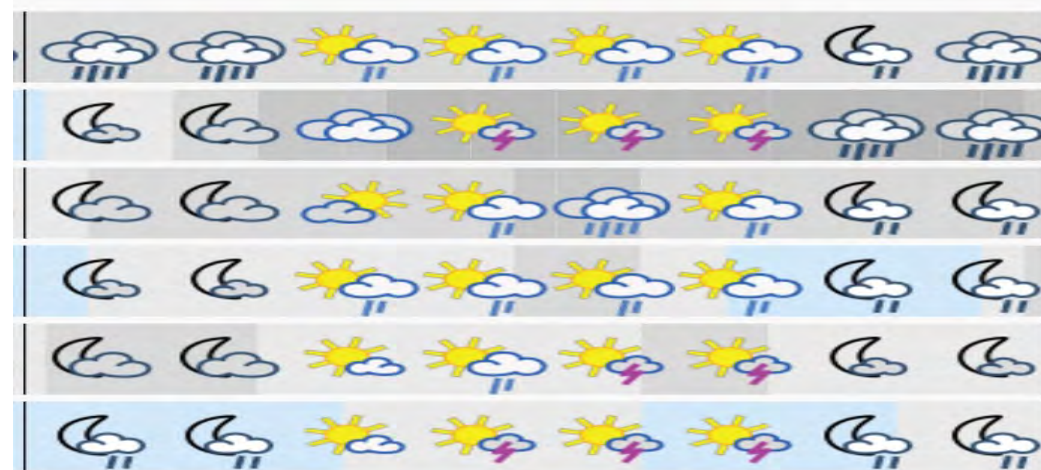
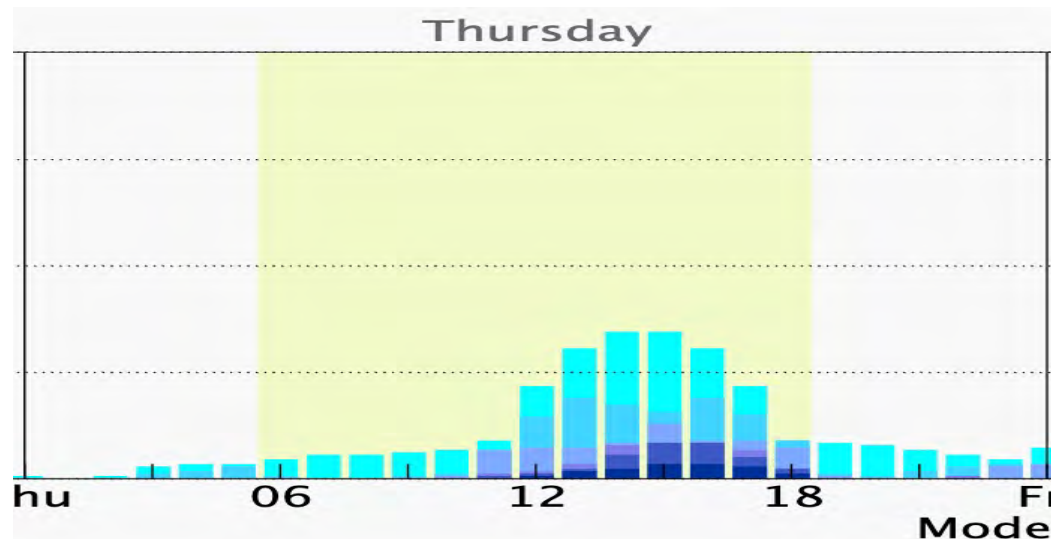
- A tropical wave is along 90W, extending across Guatemala to 07N, moving westward at 15 kt. Scattered moderate to strong convection is present from 03N to 16N between 87W and 97W.
- The monsoon trough exits the coast of Costa Rica near 10N84W and extends to 11N108W. Scattered moderate convection is occurring north of 07N east of 91W.

Thursday
03.09



Flight day:

- Typical 3-4 pm peak for precipitation.
- Likelihood of precipitation relatively even across 1-5 pm time range.
- Winds gusts of ~10 knots from the west during landing.
Sustained winds of 5 knots.



Upper Level Forecasts for 09/03/2026 and RF08 Flight Plan

SABRE Tropics Flight Plan Options

1. Vertical gradients through the TTL into the LS (under 'background' conditions and in outflow)

2. Near-field continental deep convective outflow

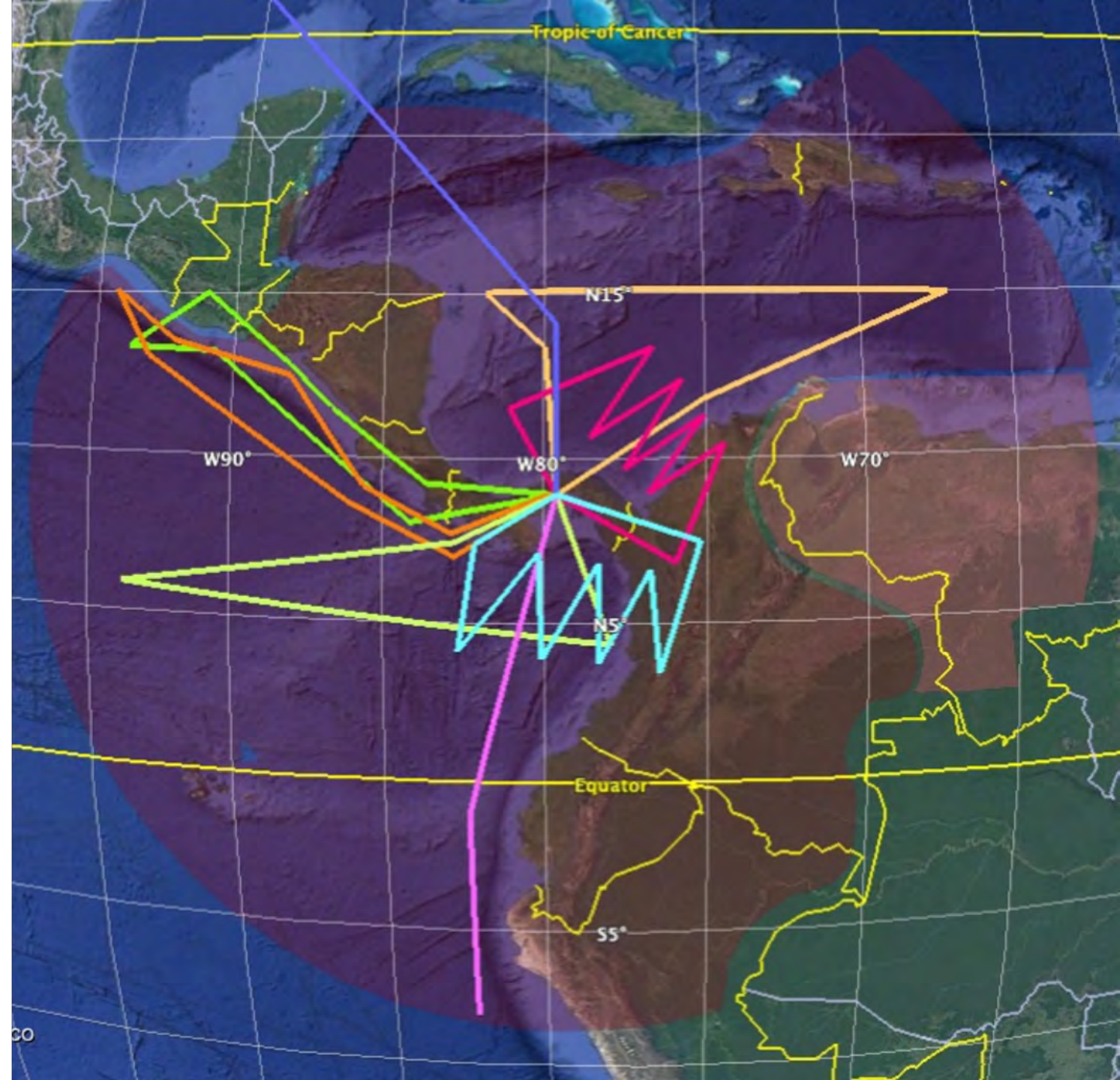
3. Aged outflow from deep continental convection (and/or longitudinal sampling if we can manage)

4. Marine deep ($> \sim 14.5$ km) convective outflow

5. Sampling of long-range transport from ASM/WAM crossing the Atlantic

6. Cross-ITCZ/equator flights for inter-hemispheric tropical comparison/gradients

7. Long longitudinal gradient



RF08 Flight plan: Southern Equatorial Survey

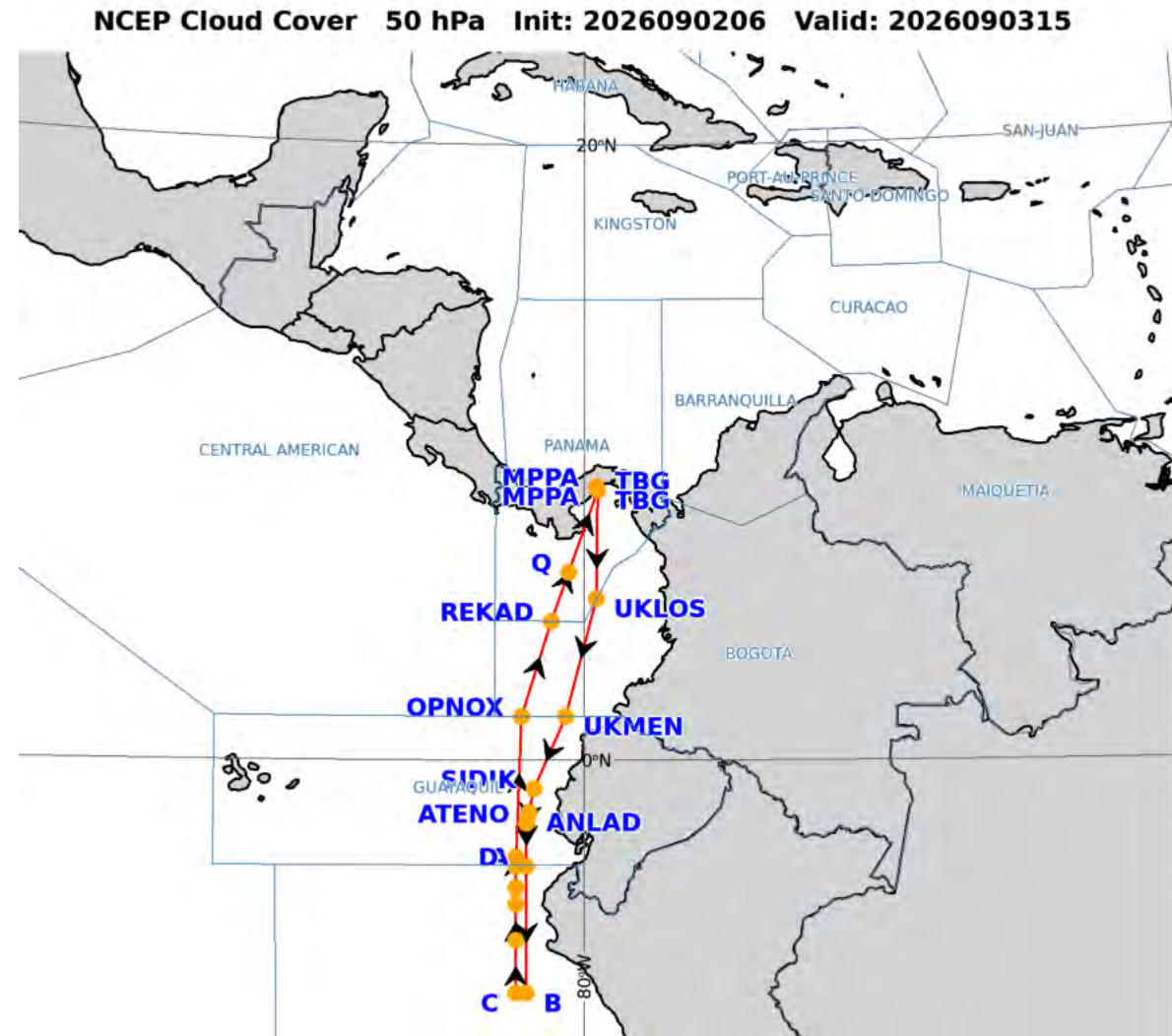
Targets

- Cross-ITCZ/equator flights for inter-hemispheric tropical comparison/gradients

Bonus Targets

Flight Specs

- Take off: 9:30am
- Landing time: 3:00pm
- Distance: 2032 nautical miles
- Duration: 5.5 - 6 hours

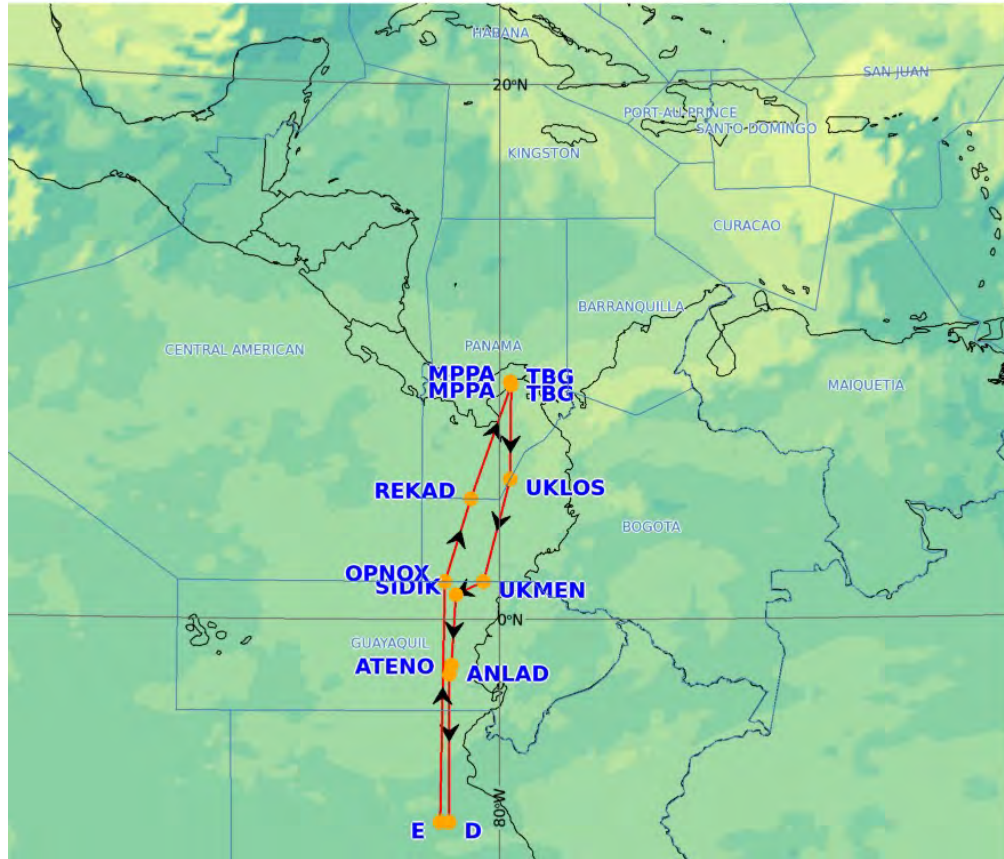


Tropopause 15Z (10a local)

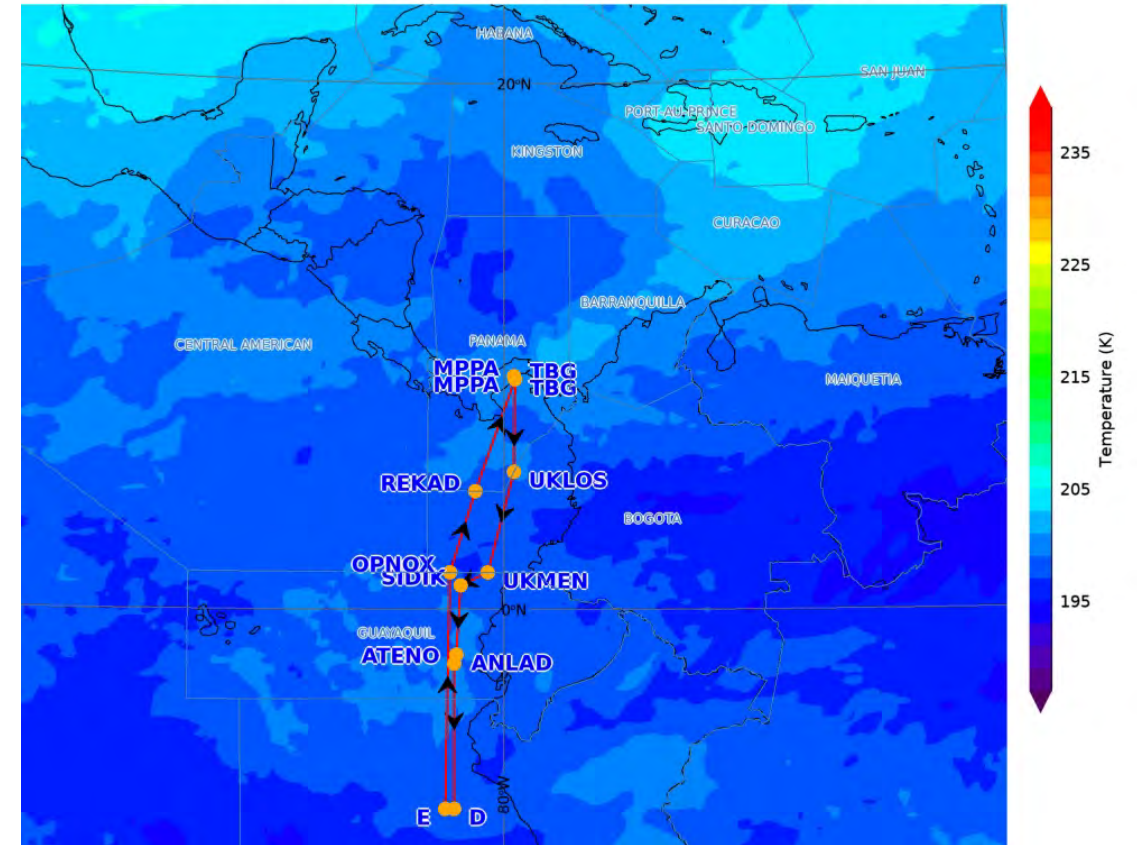
Pressure

Temperature

NCEP Tropopause Height Init: 2026090206 Valid: 2026090315

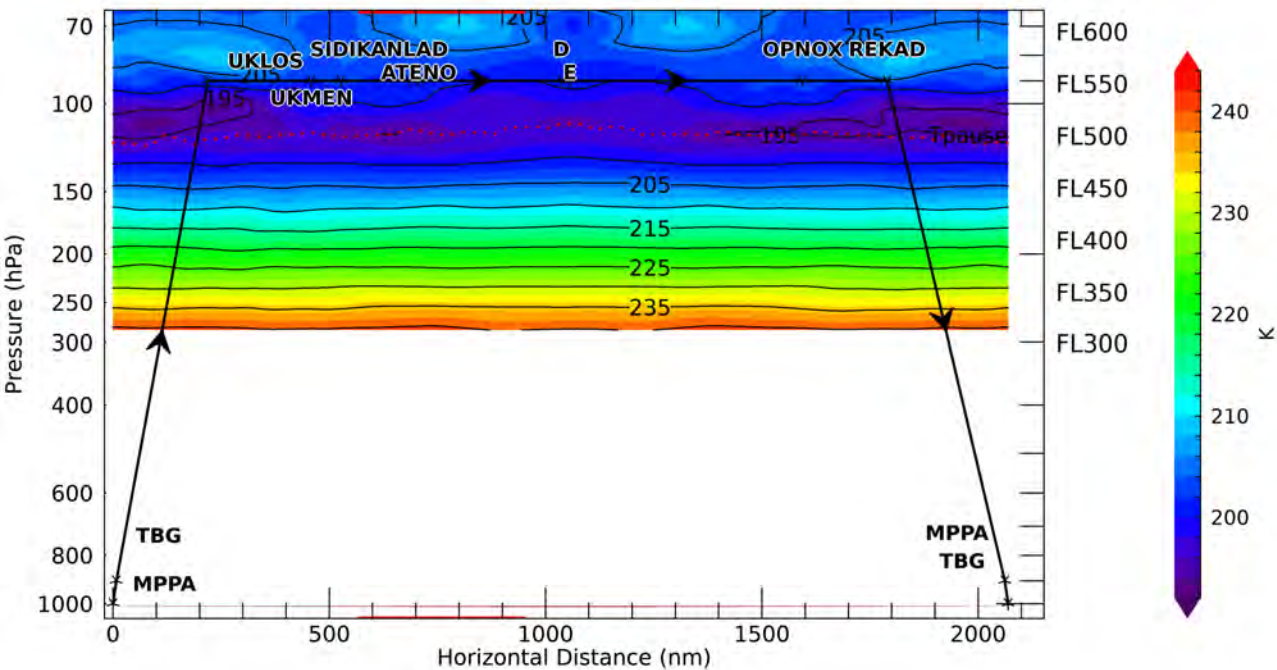


NCEP Temperature 100 hPa Init: 2026090206 Valid: 2026090315

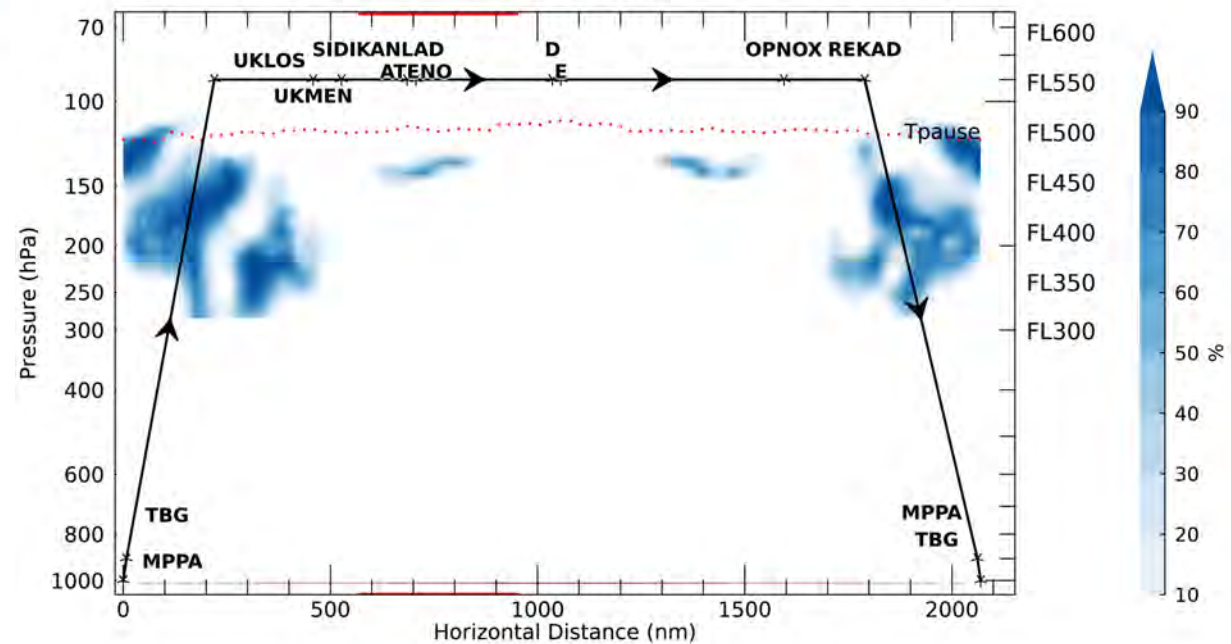


Vertical Profiles

CAMS Temperature Init:2026090200 Valid Time:2026090315

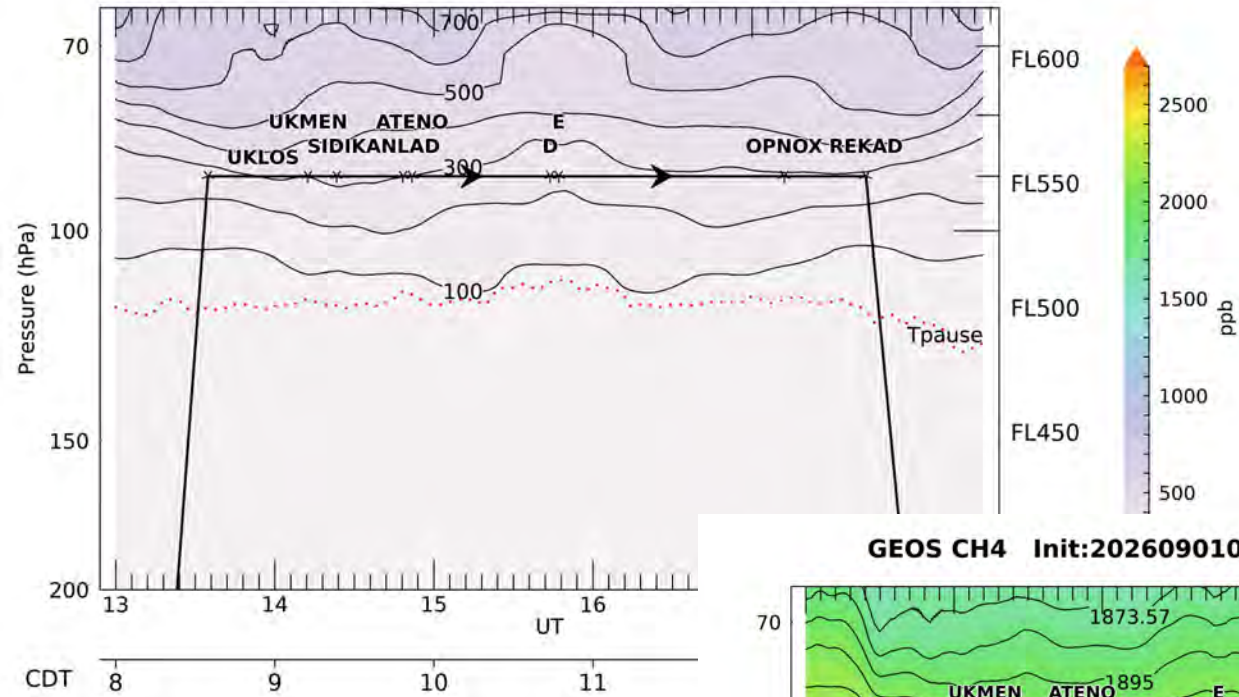


CAMS Cloud Cover Init:2026090200 Valid Time:2026090315

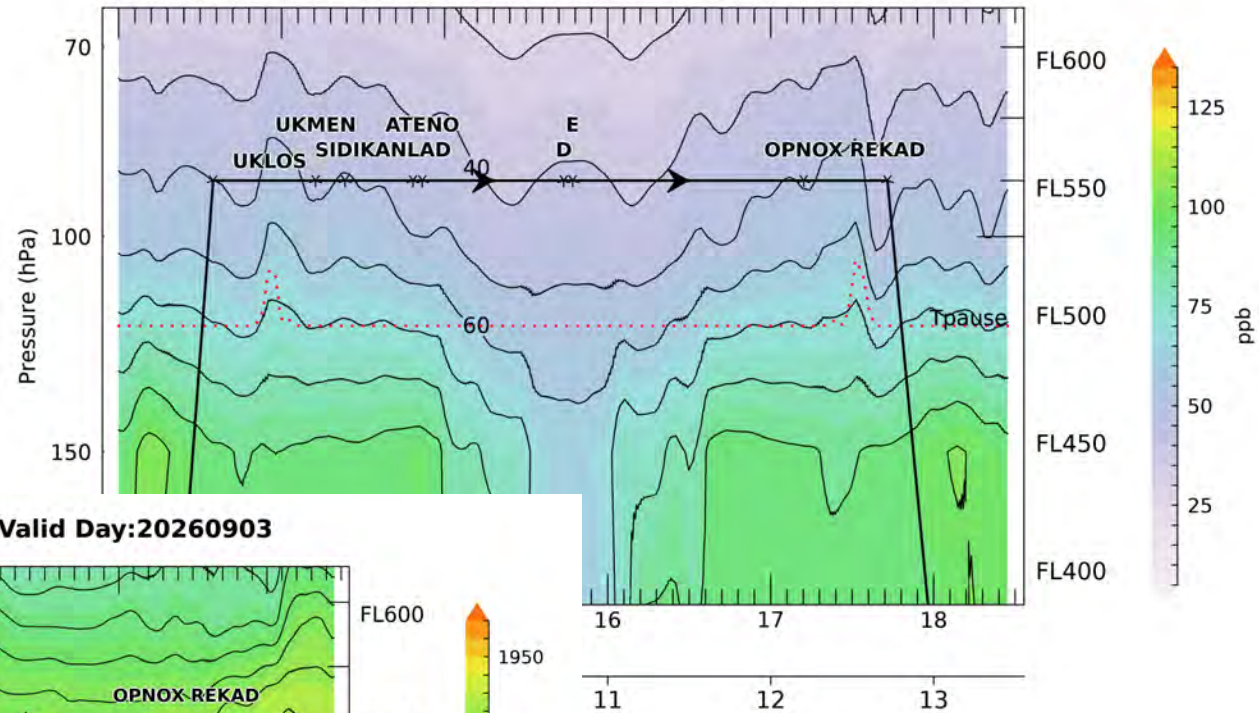


Long Lived Tracers

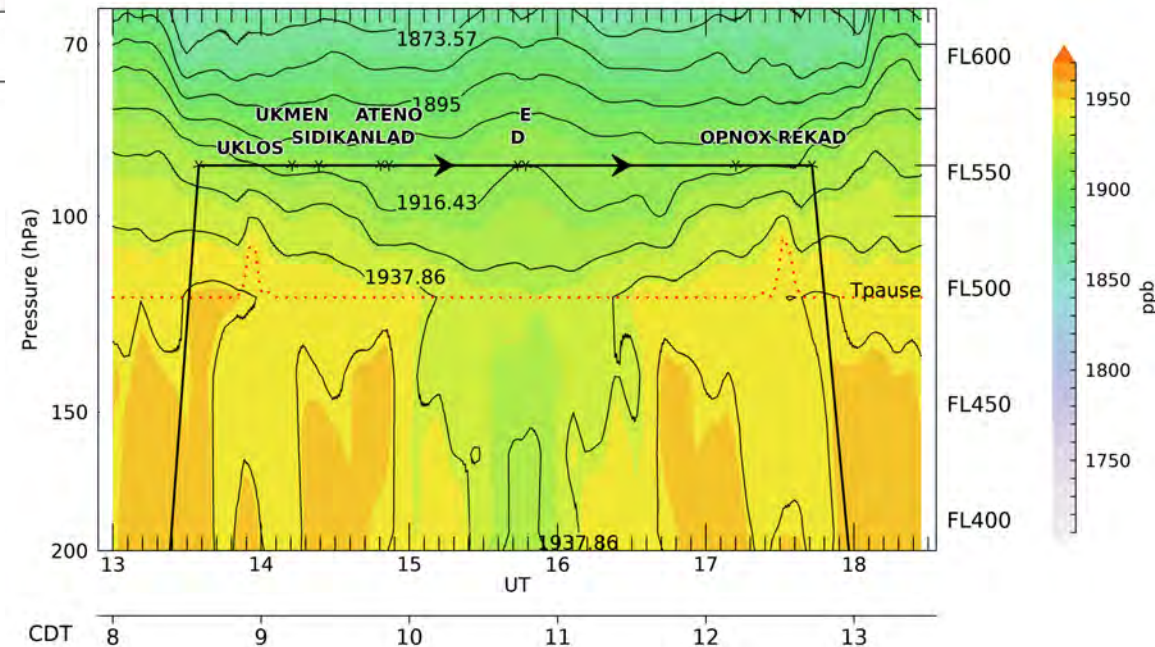
CAMS Ozone Init:2026090200 Valid Day:20260903



GEOS CO Init:2026090109 Valid Day:20260903

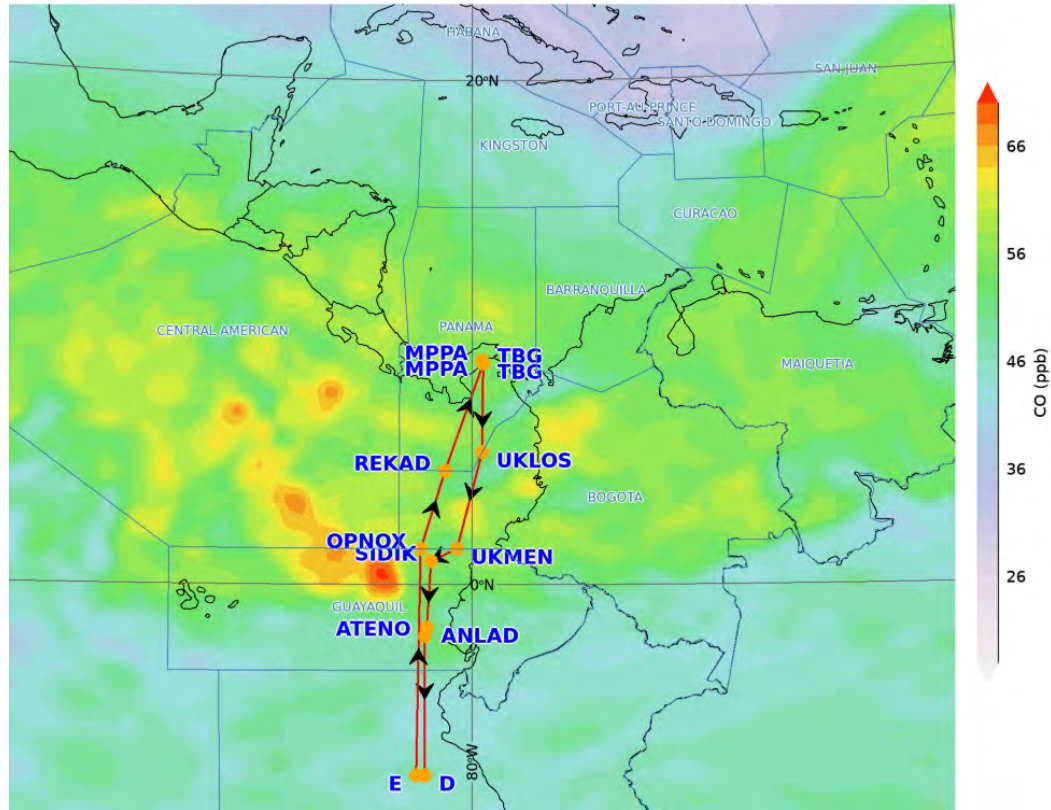


GEOS CH4 Init:2026090109 Valid Day:20260903



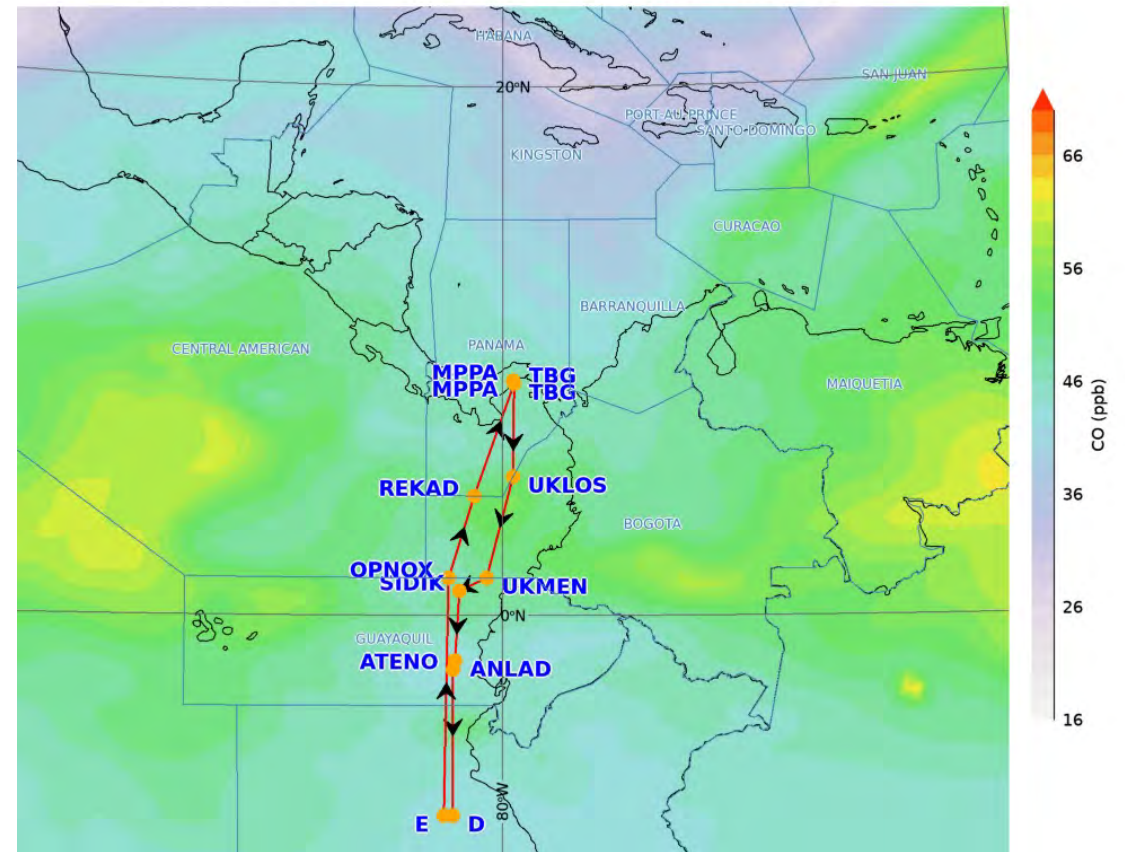
CO@100 hPa

GEOS CO 100 hPa Init: 2026090109 Valid: 2026090315



GEOS

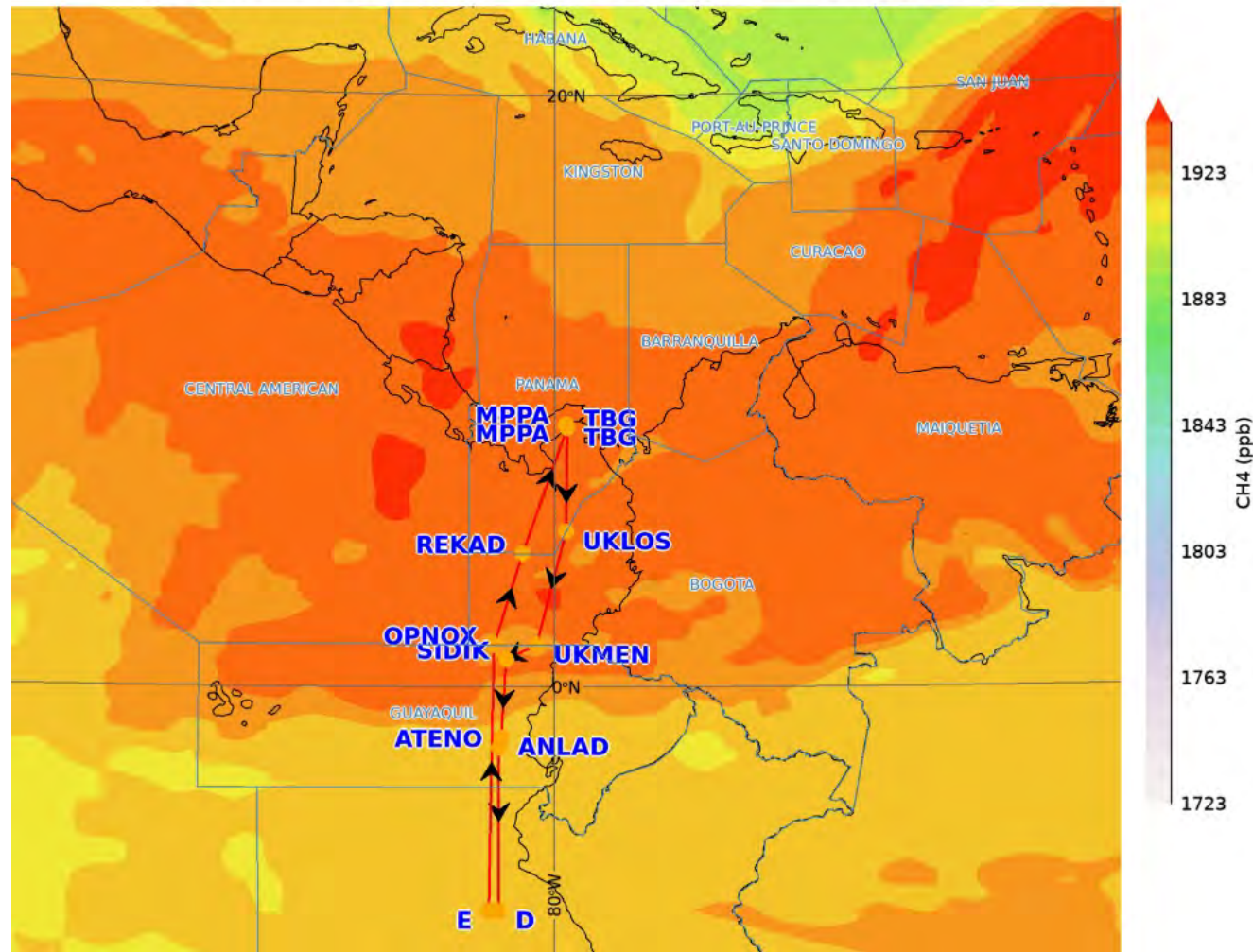
CAMS CO 98 hPa Init: 2026090200 Valid: 2026090315



CAMS

CH₄@100 hPa

GEOS CH₄ 100 hPa Init: 2026090109 Valid: 2026090315



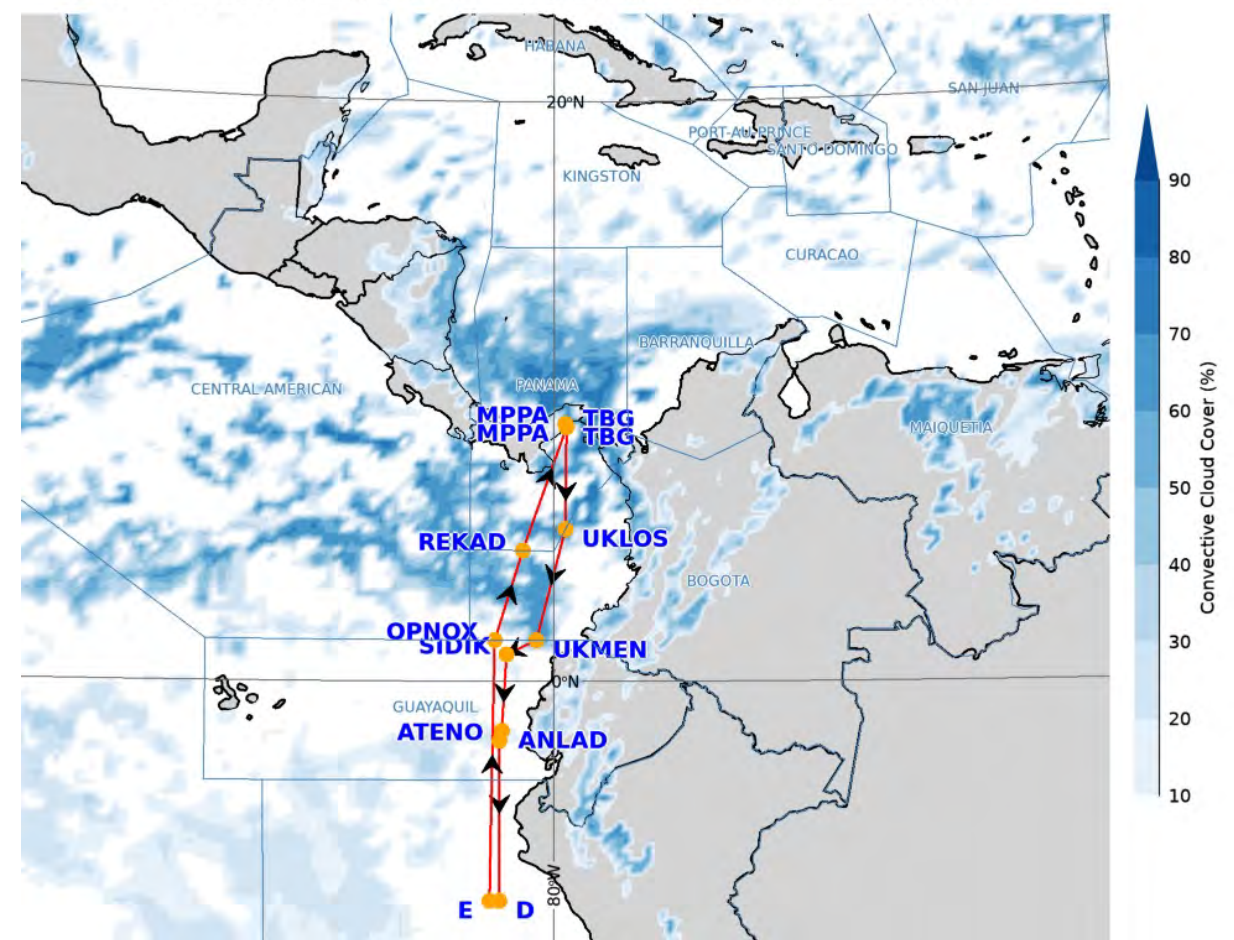
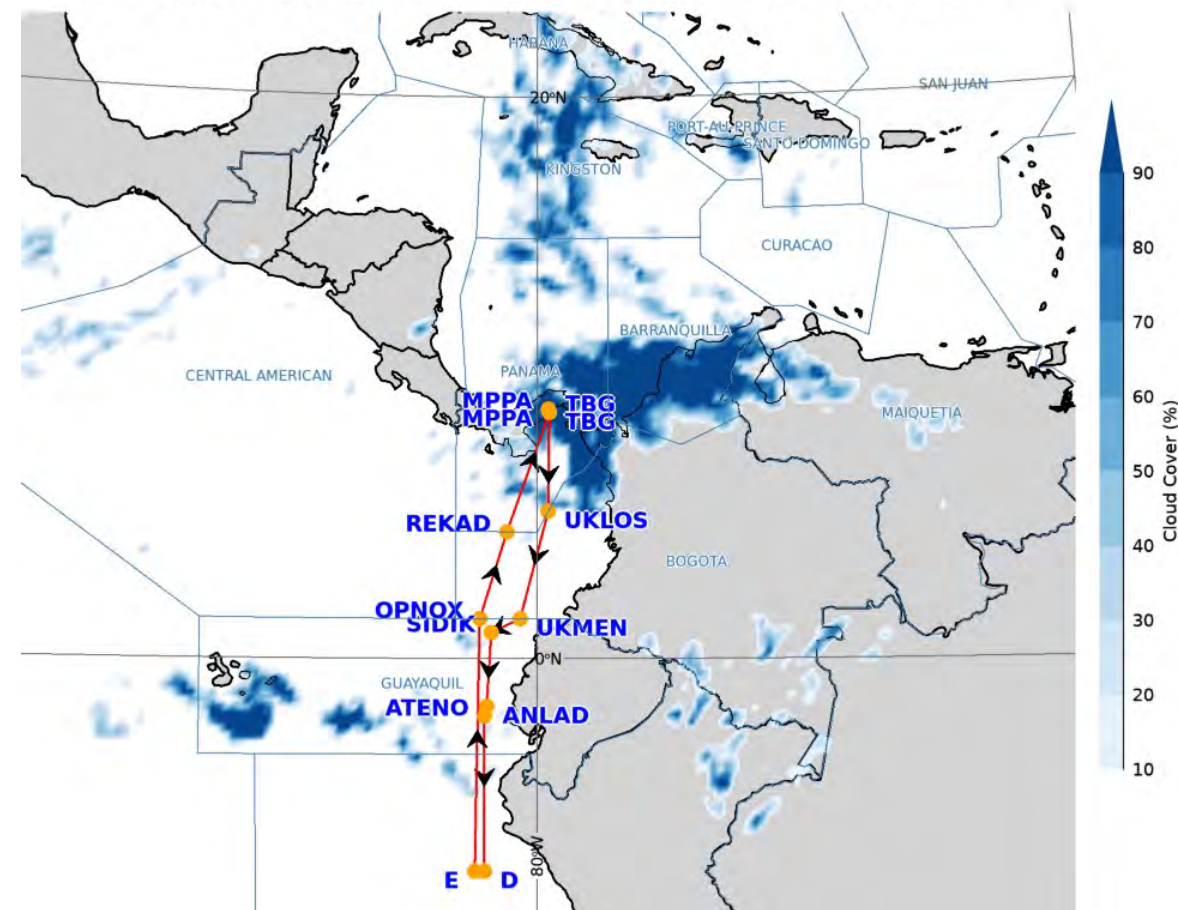
Cloud Cover 18Z (1p local)

Clouds at 100 hPa

Convective

NCEP Cloud Cover 100 hPa Init: 2026090206 Valid: 2026090315

NCEP Convective Cloud Cover Init: 2026090206 Valid: 2026090315



Possible Saturday Flights

