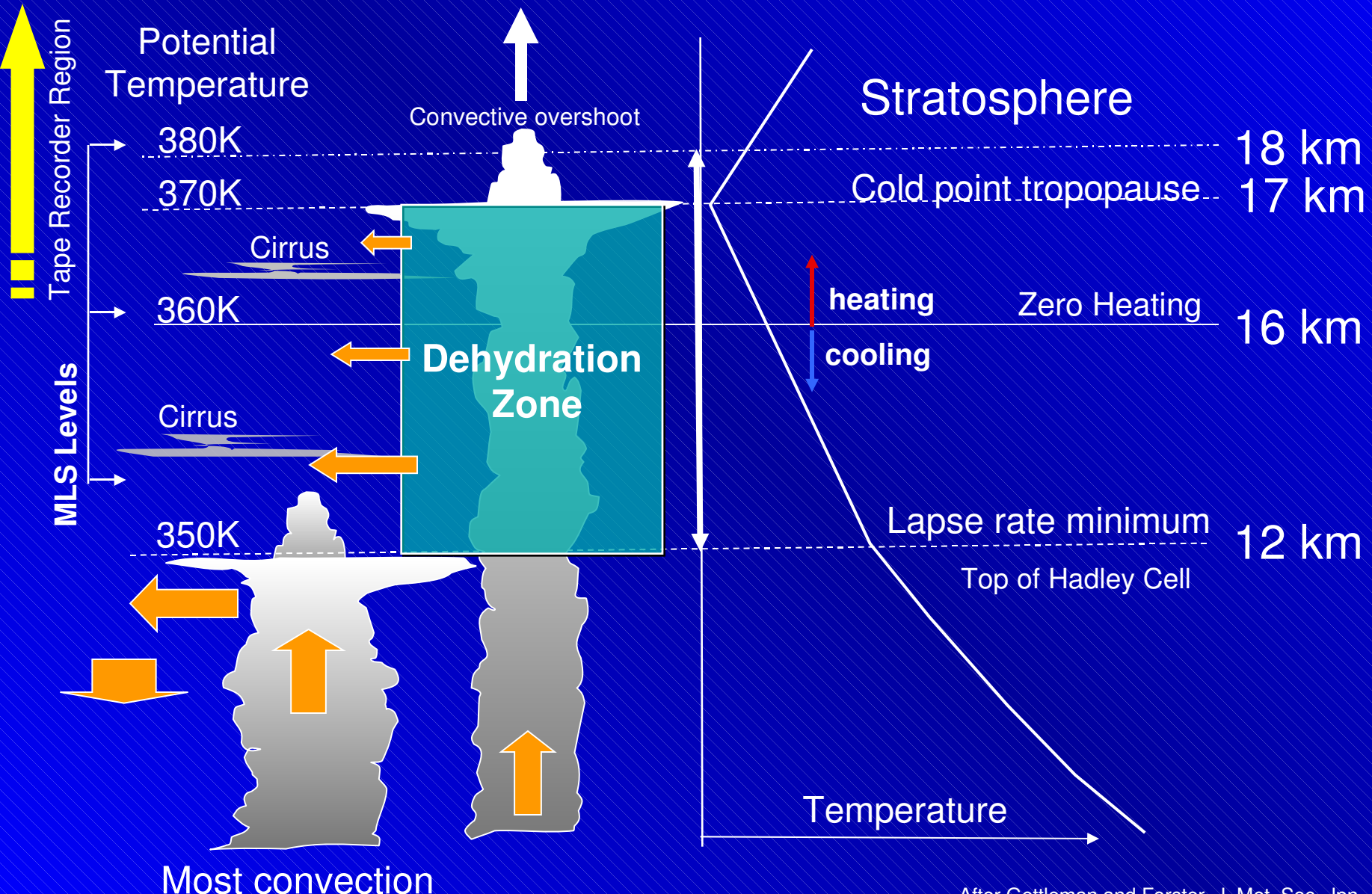
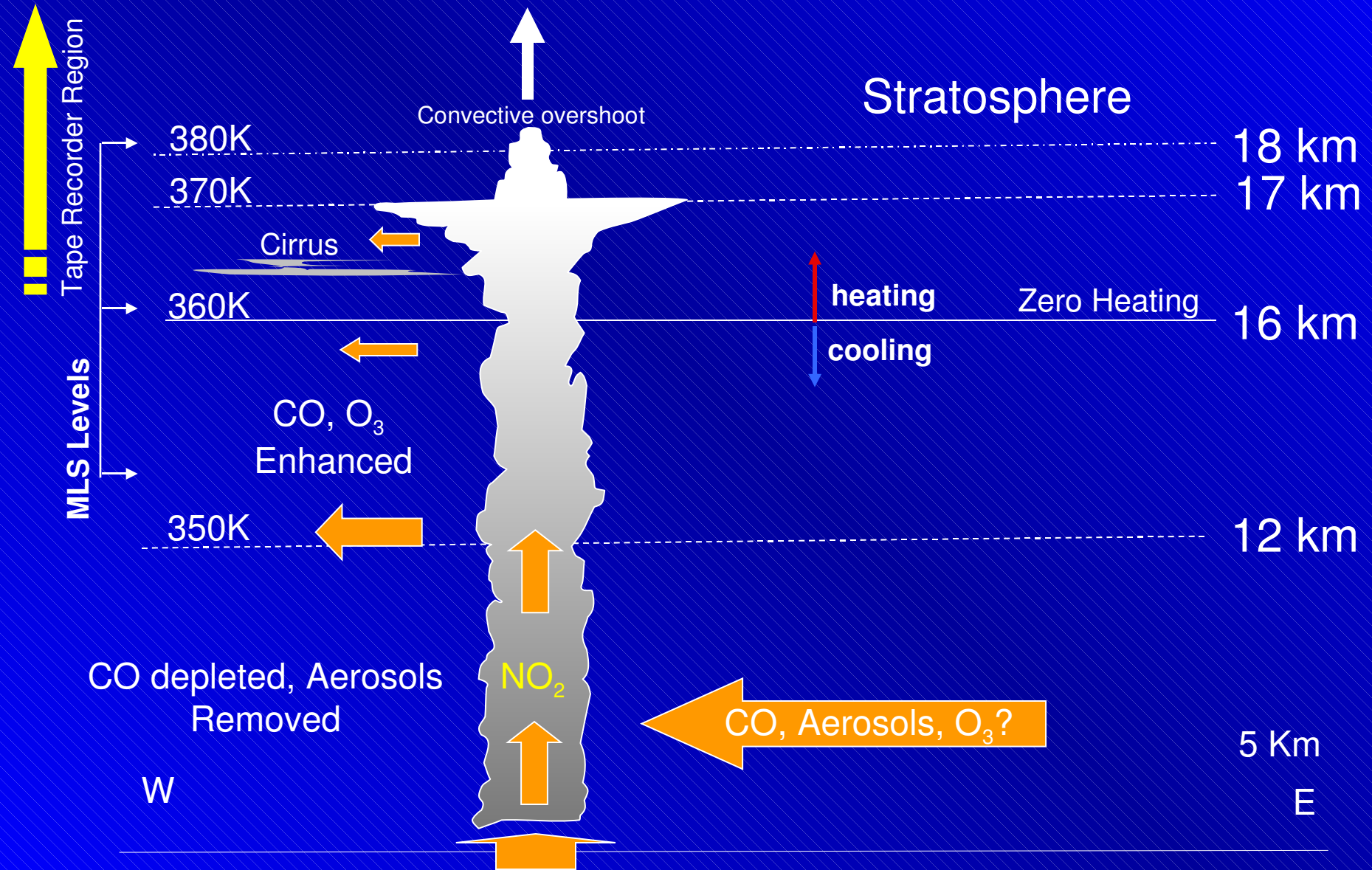


The Tropical Tropopause Layer

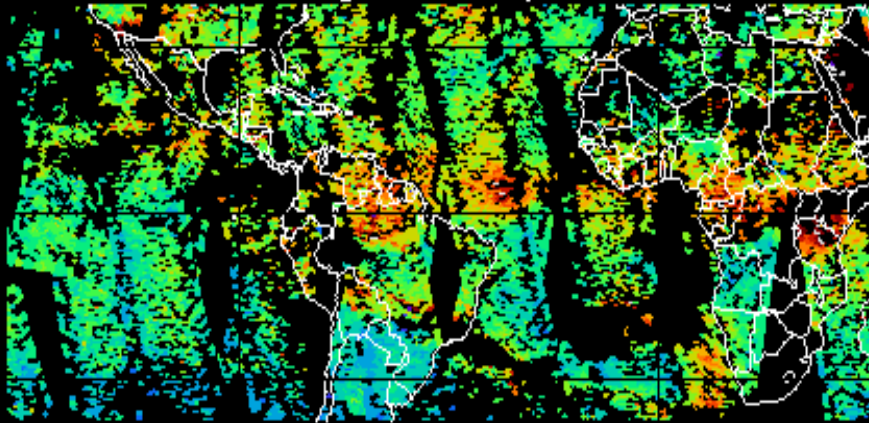


Convective Mixing and Transport Layer

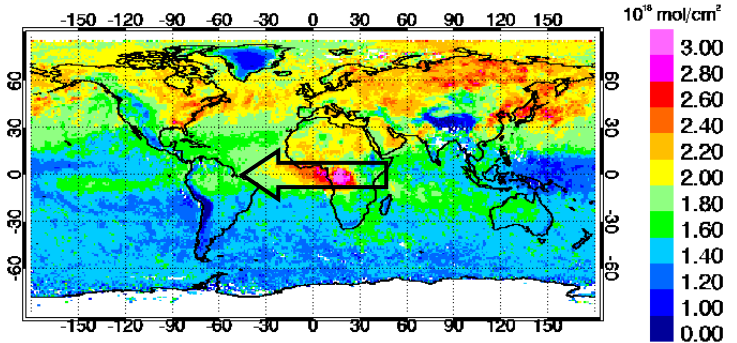


Plumes from Africa

CO Mixing Ratio July 19 2005 500 hPa

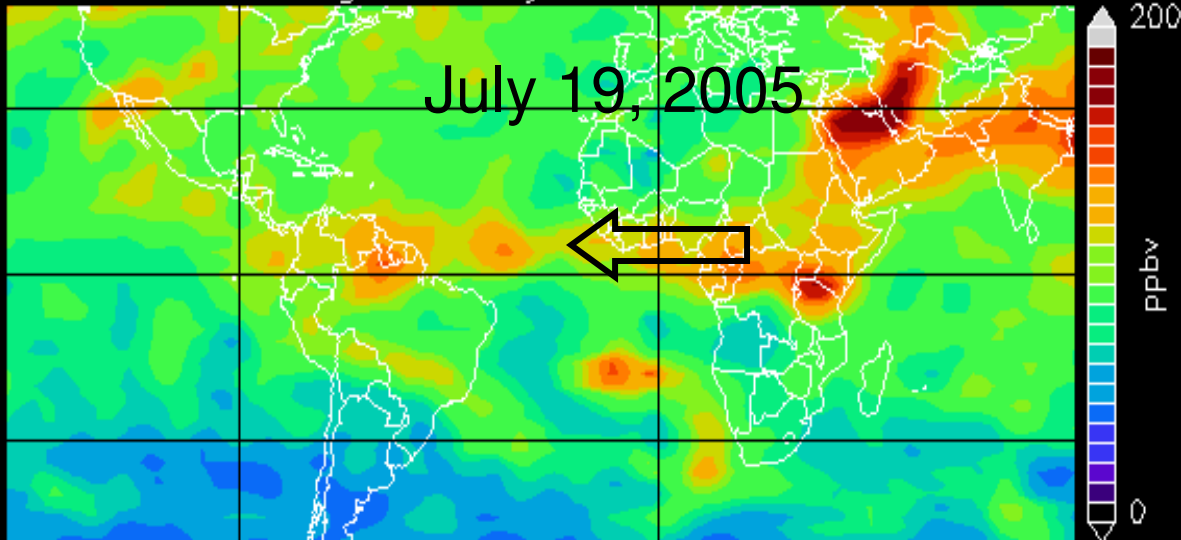


MOPITT CO (V3) Column Jul 1-31, 2006

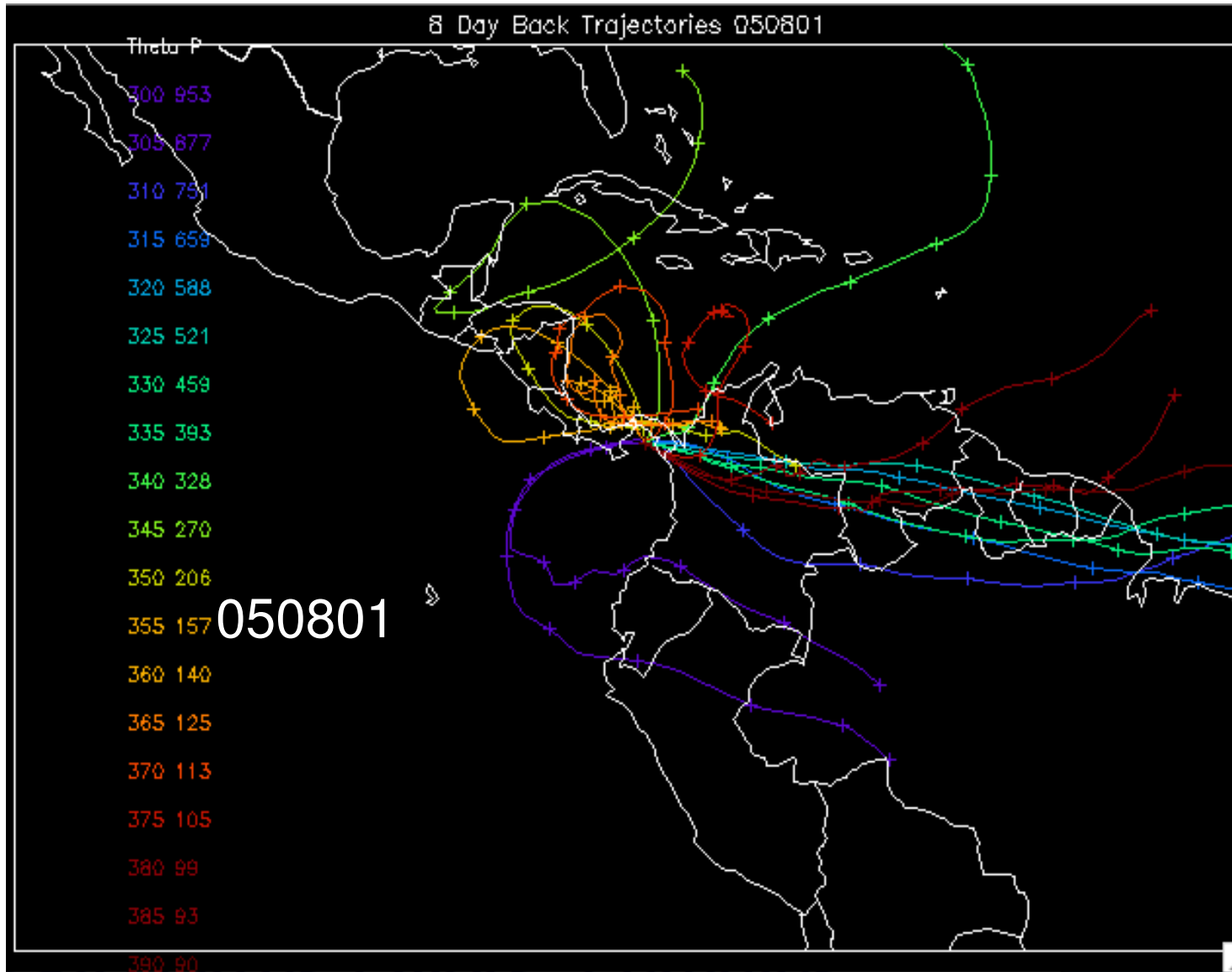


Gridded at 1x1deg from MOP02-20060731-L2V5.93.2.prov.hdf (apriori fraction < 50%)

CO Mixing Ratio July 19 2005 500 hPa



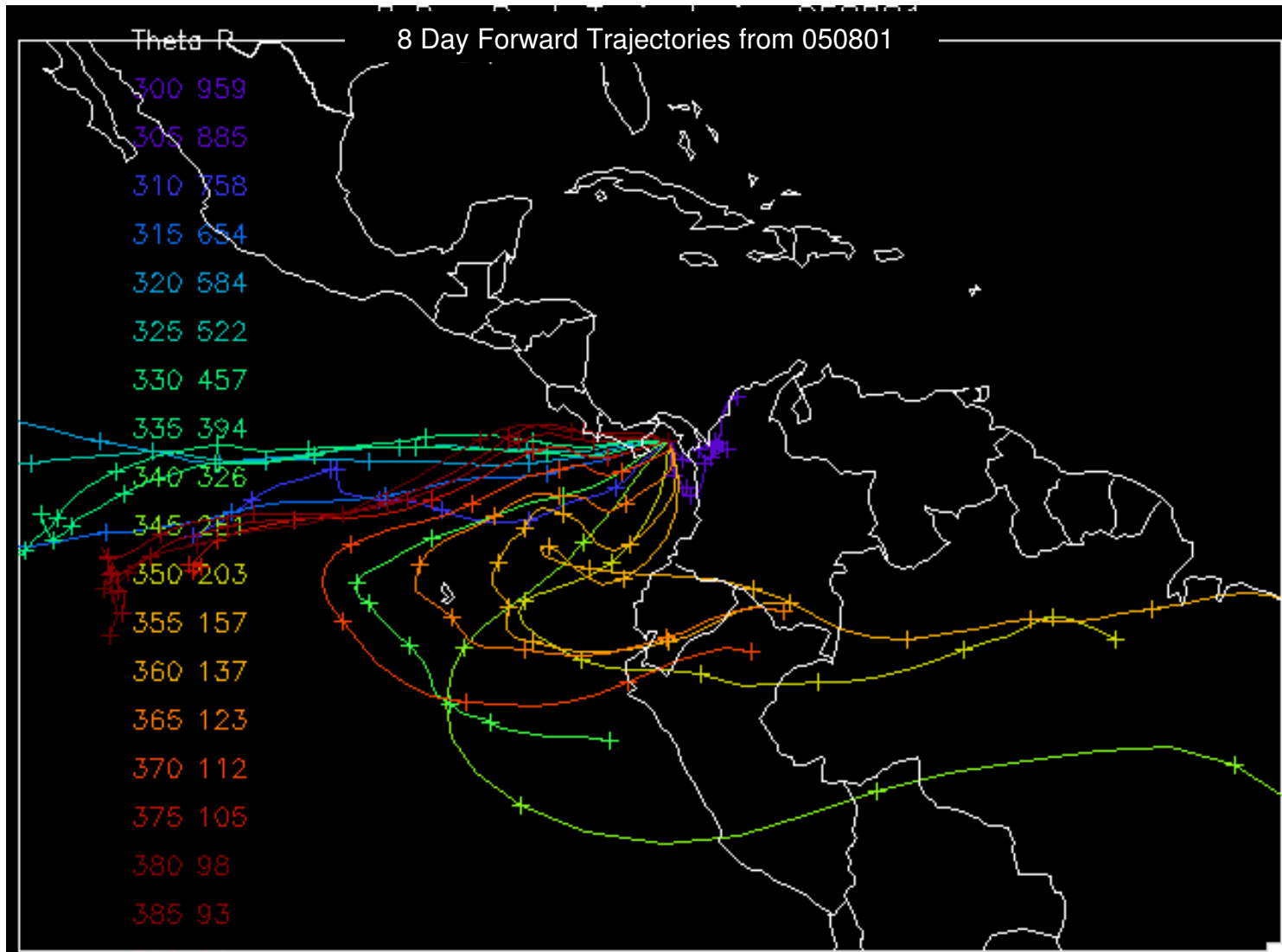
Where does the air come from?



8 day back trajectories:

- Air near ~600 - 400 hPa is coming from the South Atlantic
- Low altitude air comes from the south east burning regions (Aug.)
- Higher altitude air wanders in from the north east - east

Where does the air go?



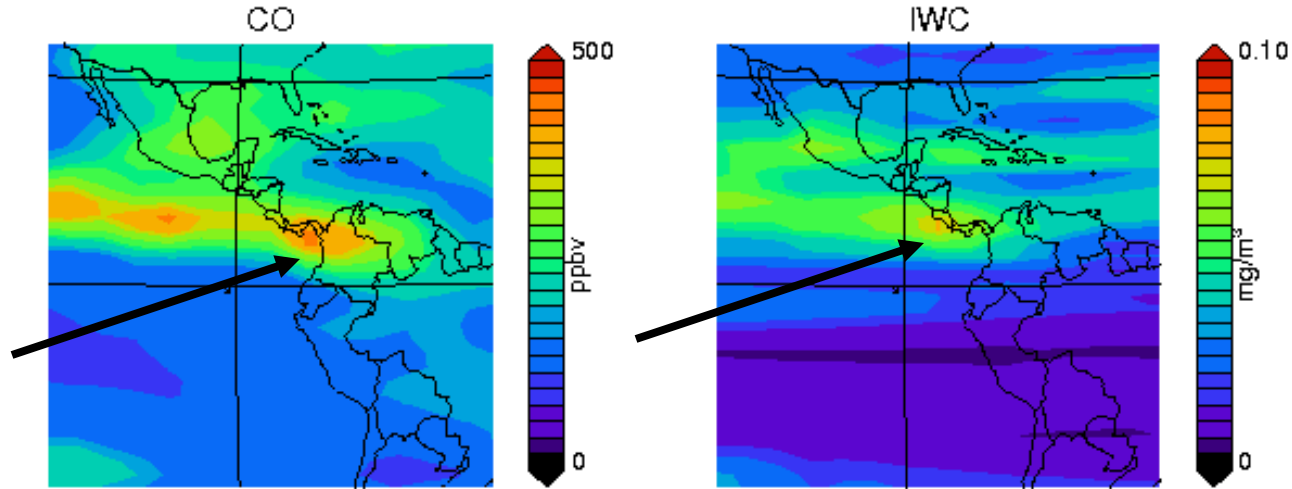
8 day forward trajectories:

- Air near ~600 - 400 hPa is goes to the West Pacific Atlantic
- Low altitude air stops
- Higher altitude heads west

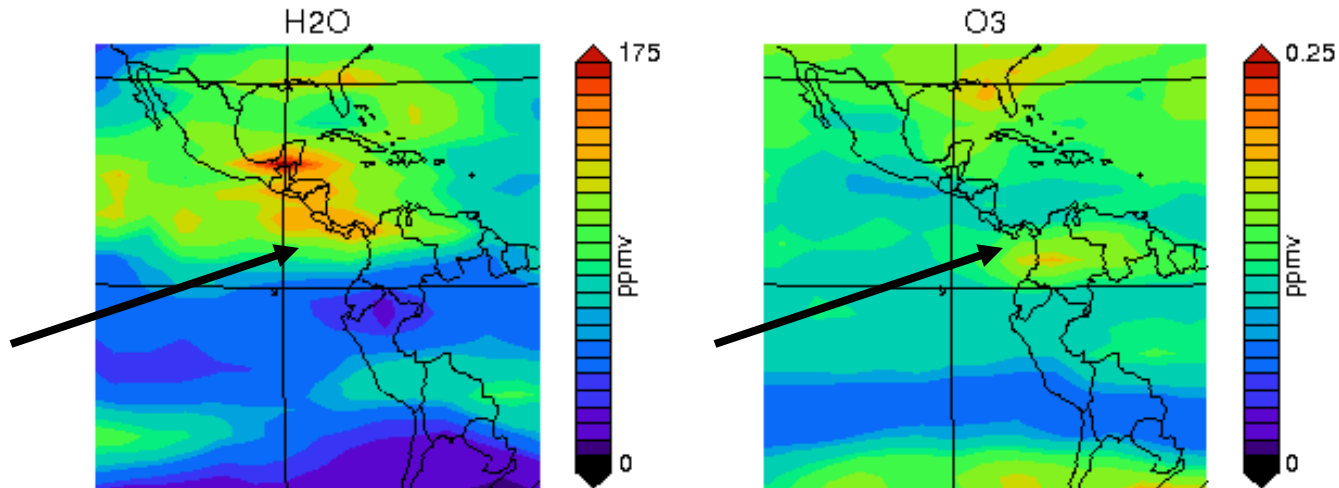
MLS 215 hPa (~10 km, 345K)

MLS Average of 6 days from July 23 -July 29 2005 215 hPa

CO levels
~350 ppbv
but MLS is
high biased



Convective
moistening



Tropospheric Ozone Residual July 2005 (Avg mixing ratio)

