Cloud Top Height

Cloud tops at 10-12km over TX

PATMOS-X Cloud Retrieval provided by Andrew Heidinger (NOAA/NESDIS)
RAQMS 12km O₃
Valid 12Z 05/15

FX 12Z 12km O₃
>400ppbv over Eastern TX

Note: FX TX convection too far South West
RAQMS 30hr SFC O3/CO FX
Valid 18Z 05/15 (Tues afternoon)

- Main region of convection (95% cpcp=0.168 mm/hr) Fx over East Coast
- Weak (75% cpcp) convection over SE TX and central KS
- SFC O3/CO enhancements to South of TX/OK domain
Net O₃ P-L < 0.5 ppbv/hr, LNOX < 100 ppbv/day, NO₂ < 0.2 ppbv at 8km associated with weak South TX convection
High O₃ (> 80 ppbv) above 5km
RAQMS 30hr 09km O3/O3 P-L FX
Valid 18Z 05/15 (Tues afternoon)

- O3 ~200ppbv West of CO domain >100ppbv over TX/OK domain
- O3 P-L ~1.0 ppbv/day along extended coldfront
RAQMS 54hr SFC O3/CO FX
Valid 18Z 05/16 (Wen Afternoon)

- Main region of convection (95% cpcp=0.210 mm/hr) Fx off SE Coast
- Moderate SFC O3/CO over TX/OK domains
- SFC O3/CO enhancements associated with weaker (75%) convection over SE TX
RAQMS 54hr 100W O3 P-L/Lightning NOX (LNOX), O3 and NO2 FX
Valid 18Z 05/16 (Wen Afternoon)

- Net O3 P-L <0.25ppbv/hr at 10-12km, low LNOX North of TX/OK domain
- High O3 over TX/OK domain above 8km
RAQMS 54hr 09km O3/Black and Organic Carbon (BCOC) FX
Valid 18Z 05/16 (Wen Afternoon)

- Stratospheric O3 (>250ppbv) to West of CO and East of TX/OK domains at 12km
- Trans-Pacific transport of S. Asian biomass burning BCOC to west of CO and TX domain at 12km