Convection breaking out on NE flank of cut-off low
RAQMS SFC
Convective Mass Flux
Valid 12Z 05/10

FX 12Z Convection over Texas on NE flank of cut-off low not predicted

Convective precip remains embedded within cut-off low
RAQMS 36hr SFC O3/BCOC FX
Valid 00Z 05/11 (Thus evening)

- Main region of convection (95% cpcp=0.219 mm/hr) Fx over AZ/NM border
- Isolated convection West of Salina, KS
- SFC O3 and BCOC enhancements South of TX/OK domain
RAQMS 36hr 100W O3 P-L/Lightning NOx, O3 and NO2 FX
Valid 00Z 05/11 (Thur evening)

- Net O3 P-L <0.5 ppbv/hr, Lightning NOx ~ 100 ppbv/day, NO2 <0.2 ppbv at 8-12km to East of CO domain associated with isolated convection

- High O3 associated with STE on Northern Flank of Strong Sub-tropical Jet at 26N
RAQMS 36hr 09km O3/O3 P-L FX
Valid 00Z 05/11 (Thus evening)

- Stratospherically influenced O3 100-150ppbv over TX/OK domain
- O3 P-L 0.5 ppbv/hr within convective outflow embedded within cut-off low
Main region of convection (95% cpcp=0.18 mm/hr) Fx within TX domain
SFC O3 ~70 ppbv, SFC BCOC 2-4 ug/m³ within inflow region to SE of convection
RAQMS 60hr 100W O3 P-L/Lightning NOx, O3 and NO2 FX
Valid 00Z 05/12 (Fri evening)

- Net O3 P-L ~0.5ppbv/hr, Lightning NOx ~150ppbv/day at 8-10km within convective outflow in NW part of OK domain
- Slight NO2 enhancements below elevated tropopause
RAQMS 60hr 09km O3/O3 P-L FX
Valid 00Z 05/12 (Fri evening)

- Stratospherically influenced O3 100-150ppbv over TX/OK domain
- O3 P-L ~0.25 ppbv/hr within convective outflow between CO and OK domains