Maritime Convection Tops at 12-14km
GOES-12
PATMOS-X
Valid 11:45Z 02/23

Maritime Convection Tops at 12-14km
RAQMS 24 hr FX
Valid 12Z 02/23

- Note: Added 50%, 75% convective precip contours to identify weaker convection
- Strongest convection (95%) predicted at 115-115-110W/4-8N south of observed convection
- Also strong convection (95%) between 4-8S with placement in good agreement with observed convection
- Predicted strong (95%) convection at 8-12N 100-95W not observed

Maritime Convection Tops at 12-14km
RAQMS 54hr SFC FX (18Z 02/24)

- Low surface O3/HCHO/CO in Equatorial pool to West of Galapagos
- Strong (95%) maritime convection to NE of Galapagos
RAQMS 54hr 12km FX (18Z 02/24)

- Aged strat (elevated O3/BRO) over Galapagos with marine BL (High DMS) to NE
- Residual BRO to West of Galapagos
RAQMS 54hr 95W FX (18Z 02/24)

Westerly jet diminishing

Residual BRO/O3 within jet core

High O3/BRO from recent STE on equatorward flank of jet at 14-17km
Elevated CO under jet associated with S. American outflow in mid-level Easterlies
• Diminished pool of low surface O3/HCHO/CO South of Galapagos
• Strong (95%) maritime convection NE of Galapagos
RAQMS 78hr 12km FX (18Z 02/25)

• Aged strat (elevated O3/BRO) over Galapagos with marine BL (elevated DMS) to NE
• Residual BRO South and NW of Galapagos
RAQMS 102hr SFC FX (18Z 02/26)
• Diminished pool of low surface O₃/HCHO/CO South of Galapagos
• Strong (95%) maritime convection Northeast of Galapagos
RAQMS 102hr 12km FX (18Z 02/26)

- Residual BRO/O3 to SE of Galapagos
- CO gradient aligned from SW to NE due to STE/S. American outflow East of Galapagos