Maritime Convection
RAQMS 24 hr FX  
Valid 12Z 02/10

- Note: Added 50%, 75% convective precip contours to identify weaker convection

- Strongest convection (95%) at predicted at 85-90W/6N between two regions of observed convection

- Weaker (50%) convection is observed and predicted at 90-95W/6S

- Both show some DMS outflow at 12km
• Extensive region of low surface O3 at Equator
• Strong (95%) deep maritime convection on northern edge of low O3 pool
RAQMS 48hr 12km FX (02/11)

- Weak DMS outflow from maritime deep convection
- Upper level S. American outflow moving west towards Galapagos
RAQMS 72hr SFC FX (02/12)

- Region of low surface O3 at Equator extending North at 105W
- Deep maritime convection predicted to west (100W/12N) and South (85W/4N)
RAQMS 72hr 12km FX (02/12)

- Western DMS outflow stronger than Southern
- Upper level S. American outflow moving North towards Costa Rica
Extensive region of low surface O₃ at the Equator continues to push northward at 110W
Elevated CO, O₃, DMS, and HCHO in Western marine deep convection inflow
RAQMS 96hr 12km FX (02/13)

• Southern DMS outflow embedded in upper level S. American outflow
• Extensive deep maritime convection predicted north of Equator
• Elevated CO and O3 in Western deep marine convection
RAQMS 120hr 12km FX (02/14)

- Western DMS outflow
- Upper level S. American outflow moving Eastward past Costa Rica