Deep Maritime Convection
RAQMS 24 hr FX Valid 12Z 02/03

- Western Maritime convection somewhat north of observed Deep Maritime Convection
RAQMS 48hr SFC FX for RF08 (02/04)

- NS gradient persists at ~4N.
- No deep maritime convection predicted to west but present south of Panama.
RAQMS 48hr 6km FX for RF08 (02/04)

- Convection south of Panama influenced by continental outflow (elevated CO)
- Westerly transport of high DMS and low O3 from Panama marine convection at 6km
RAQMS 48hr 12km FX for RF08 (02/04)
• Long range pollution transport (elevated CO/O3) NW of Galapagos
• Marine deep convective outflow (elevated DMS) south of Panama/west of Costa Rica
RAQMS 48hr 100W FX for RF08 (02/04)

- Eastward long range pollution transport (elevated CO/O3) above 10km (A)
- Westward transport of S. American continental outflow at 3-6km (B)
- Maritime convective outflow (low O3/high DMS) at 10km between 5-20N (C)
RAQMS  72hr SFC FX (02/05)

- NS gradient persists at ~4N.
- No deep maritime convection predicted to west but present south of Panama
RAQMS 72hr 12km FX (02/05)

- Long range pollution transport (elevated CO/O3) between Costa Rica and Galapagos
- Marine deep convective outflow (elevated DMS) south of Panama/west of Costa Rica
RAQMS 96hr SFC FX (02/06)

- NS gradient persists at ~4N.
- New deep maritime convection predicted to west still present south of Panama
RAQMS 96hr 12km FX (02/06)
• S. American outflow (elevated CO/HCHO low O3) heading NW
• Clean (low CO/O3/HCHO) maritime convective outflow (elevated DMS) at 110W/6S
RAQMS 120hr SFC FX (02/07)
- NS gradient persists at ~4N. Extensive pool of low surface O3 at Equator
- New deep maritime convection predicted to west still present south of Panama
RAQMS 120hr 12km FX (02/07)

- S. American outflow (elevated CO/HCHO low O3) heading NW
- Strong maritime convective outflow (elevated DMS/low O3) at 105W/12N