Deep Maritime Convection
RAQMS 24 hr FX
Valid 12Z 02/04

- Western Maritime convection north of observed
- Eastern Maritime convection missed
RAQMS 24hr FX CO Curtain for RF08 (02/04)
RAQMS 24hr FX DMS Curtain for RF08 (02/04)
RAQMS 24hr FX HCHO Curtain for RF08 (02/04)
RAQMS 24hr FX O3 Curtain for RF08 (02/04)
RAQMS 48hr SFC FX (02/05)

- NS gradient persists at ~4N.
- No deep maritime convection predicted to west but present south of Panama.
RAQMS 48hr 12km FX (02/05)

- Long range pollution transport (elevated CO/O3) North of Galapagos
- Marine deep convective outflow (elevated DMS low CO/O3) at 110-105W/8N
RAQMS 72hr SFC FX (02/06)
• Deep maritime convection predicted to west and still present south of Panama
• Offshore flow enhances DMS and brings elevated CO/O3 into west convection
• Long range pollution transport (elevated CO/O3) North of Galapagos
• Marine deep convective outflow (elevated DMS low CO/O3) at 110-105W/12N
RAQMS 96hr SFC FX (02/07)

- Deep maritime convection predicted to west and still present south of Panama
- Offshore flow enhances DMS and brings elevated CO/O3/HCHO into west convection
RAQMS  96hr 12km FX (02/07)
- Marine deep convective outflow (elevated DMS low CO/O3) to NNE at 100W/12N
RAQMS 120hr SFC FX (02/08)

- Deep maritime convection predicted to west and still present south of Panama
- Offshore flow enhances DMS and brings elevated CO/O3/HCHO into west convection
RAQMS 120hr 12km FX (02/08)
• Marine deep convective outflow (elevated DMS low CO/O3) to NNE at 100W/12N
RAQMS DMS FX at 100W

• Cross section through region of western deep maritime convection that builds during FX period
• Deep convective outflow (elevated DMS) reaches 13km
RAQMS O3 FX at 100W

- Cross section through region of western deep maritime convection that builds during FX period
- Deep convective outflow (low O3) reaches 13km