GOES-12 PATMOS-X
Valid 11:45Z 02/01

Brightness Temperature 6.7 micron

Maritime convection
- Maritime convection weakens

- Long-range pollution transport over Galapagos associated with trough
RAQMS 24 hr FX
Valid 12Z 02/01

- Outflow (high DMS) from maritime deep convection is associated with western maritime convection.
- DMS signature of convective outflow is somewhat west of observed outflow.
RAQMS 48hr SFC CO/O3/DMS/HCHO FX Valid 12Z 02/02

- Offshore SFC flow leads to enhanced CO/O3/DMS/HCHO West of Costa Rica
- Maritime convection diminished at 100W/13N more extensive at 85-80W/4-8N
RAQMS 72hr SFC CO/O3/DMS/HCHO FX Valid 12Z 02/03

- Continued offshore SFC flow leads to enhanced CO/O3/DMS/HCHO West of Costa Rica
- Expansion of equatorial marine BL O3 minimum between 115-100W
RAQMS 72hr 3km CO/O3/DMS/HCHO FX Valid 12Z 02/03

- Low-level continental outflow (higher CO/HCHO) and STE influence (high O3/low CO) to north of maritime convection at 85-80W/4-8N
• Mid-level continental outflow (higher CO/HCHO) and STE influence (high O3/low CO) to north of maritime convection at 85-80W/4-8N. Convective DMS enhancements at 80W/4N.
RAQMS 72hr 12km CO/O3/DMS/HCHO FX Valid 12Z 02/03

- Upper-level long-range transport (higher CO), STE influence (high O3) and maritime convective outflow (low O3/high DMS) in region of maritime convection at 85-80W/4-8N.
Outflow (high DMS) from maritime deep convection beginning from Eastern (B) maritime convection.

Outflow from maritime convection extends from 10-13km with maximum at 12km.
• Continued offshore SFC flow leads to enhanced CO/O3/DMS/HCHO West of Costa Rica
• Continued expansion of low equatorial marine BL O3, continued convection at 85-80W/4-8N
Continued offshore SFC flow leads to enhanced CO/O3/DMS/HCHO West of Costa Rica
Maritime convection moving northward to 86-80W/8N
RAQMS 96hr 12km/10N  DMS
FX Valid 12Z 02/04

- Outflow (high DMS) from maritime deep convection weakens from Western (A) and intensifies from Eastern (B) maritime convection.

- Outflow from maritime convection at 12km (10N)
RAQMS 120hr 12km/10N DMS
FX Valid 12Z 02/05

- Outflow (high DMS) from maritime deep convection gone from Western (A) and strong from Eastern (B) maritime convection.

- Outflow from maritime convection at 12km (10N)