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

Brightness Temperature 6.7 micron 11:45Z 20120212

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

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

- Strongest convection (95%) at predicted at 110-100W/12-14N slightly south of region of observed convection

- Weaker (75%) convection is observed and predicted near EQ and at 90W/8S

- Significant DMS outflow at 12km in NH convection sampled by RF11
RAQMS 48hr SFC FX (02/13)

Note: Now show SFC H2O instead of SFC DMS

• Low surface O3 from Equatorial pool transported North at 110W
• Strong (95%) maritime convection (also high SFC H2O/low HCHO) west of Costa Rica
RAQMS 48hr 12km FX (02/13)
- Northwestward DMS outflow from western maritime deep convection
- Upper level S. American outflow (high CO/HCHO) moving north over Costa Rica
RAQMS  72hr SFC FX (02/14)  
Note: Now show SFC H2O instead of SFC DMS

- Region of low surface O3 at Equator extending North at 110-105W
- Deep maritime convection predicted to west (110-100W/12-16N) with high SFC H2O
Western DMS outflow weakens, long-range pollution (high CO/O3) entering to NW
Upper level S. American outflow (high CO/HCHO) moving east past Costa Rica
Note: Now show SFC H2O instead of SFC DMS

- Extensive region of low surface O3 at Equator continues to push northward at 110W
- High SFC H2O and low HCHO in Western marine deep convection inflow
RAQMS 96hr 12km FX (02/15)

- Upper level S. American outflow becoming less organized, high O3/CO NW at 12km
- Northward transport of high DMS/low O3 in convective outflow at 105W/6N
RAQMS 120hr SFC FX (02/16)

Note: Now show SFC H2O instead of SFC DMS

- Continued strong (95%) marine convection west of Costa Rica
- SFC moisture source to north of marine convection
RAQMS 120hr 12km FX (02/16)

- Weak DMS outflow from western deep convection
- Upper level S. American outflow breaking up, high O3 transported in from NW