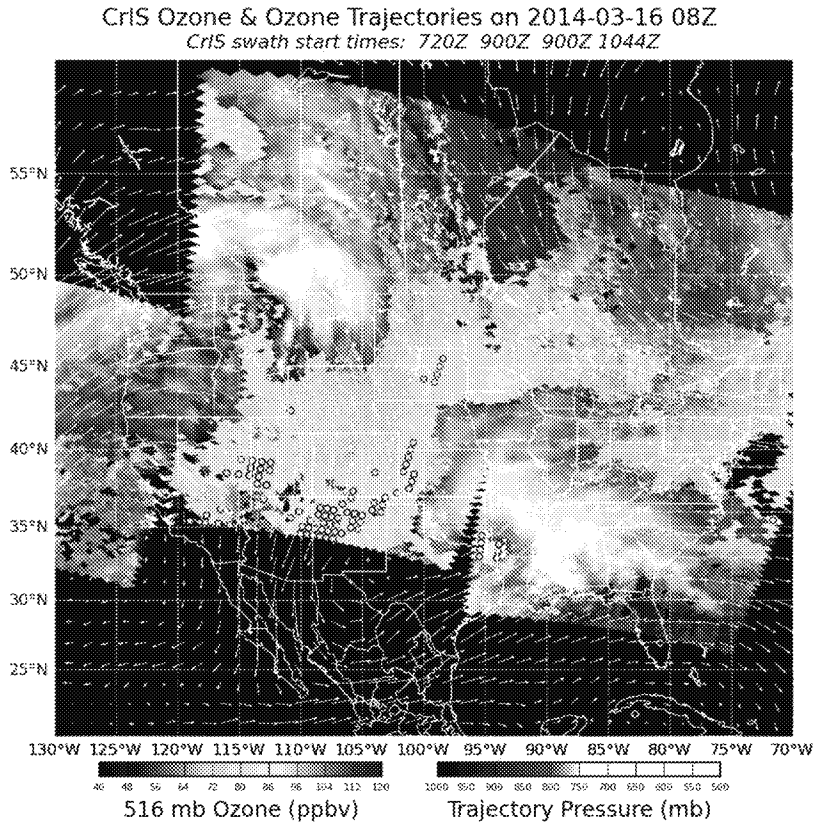
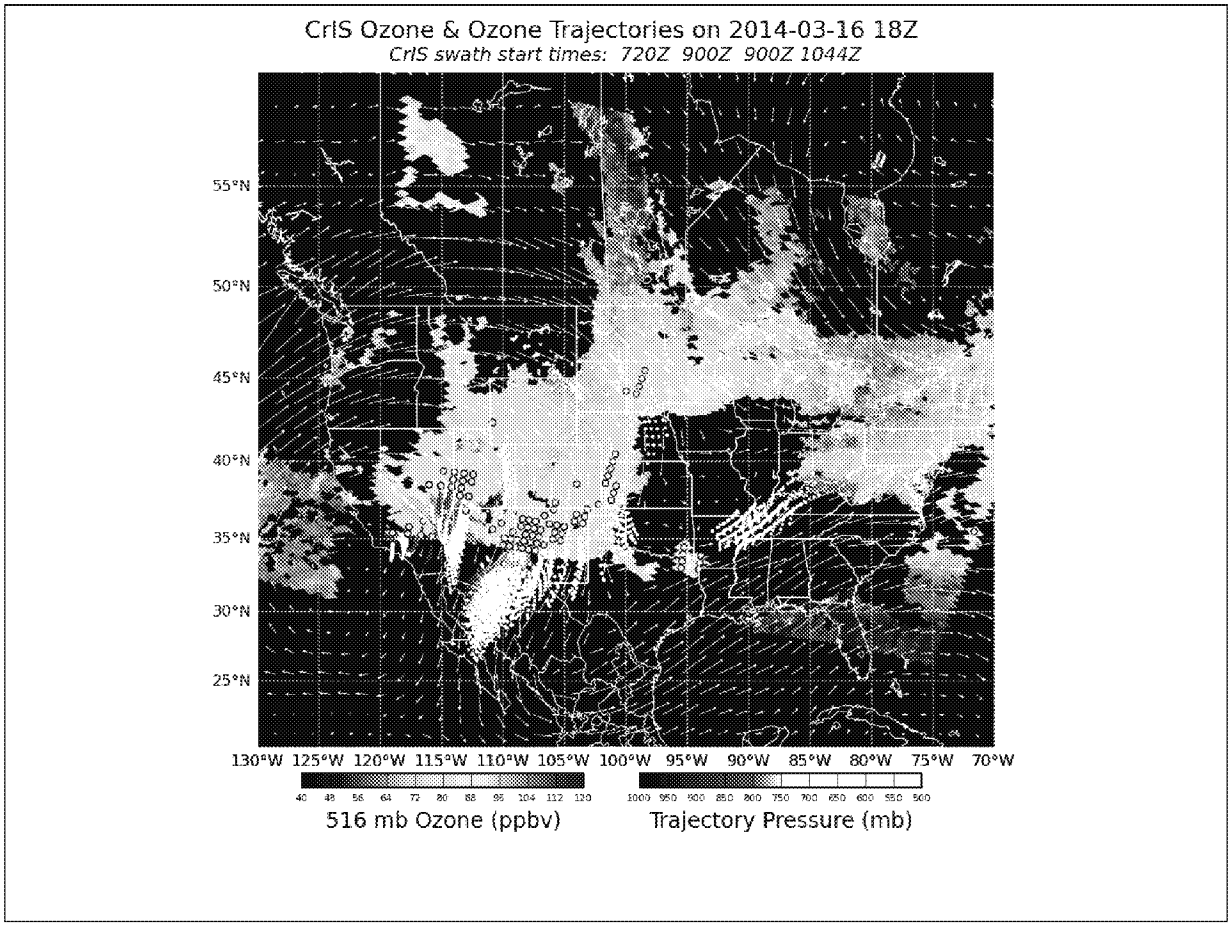
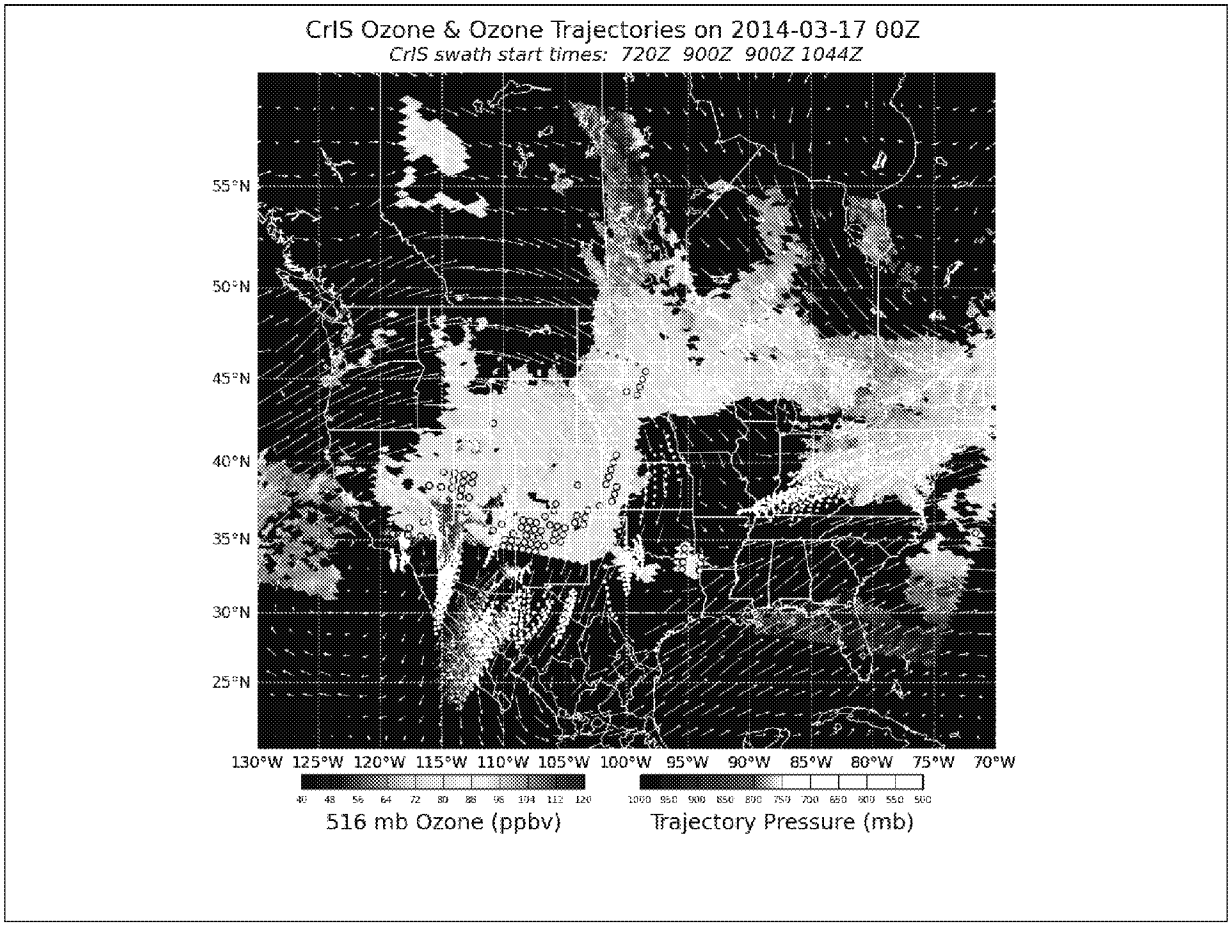
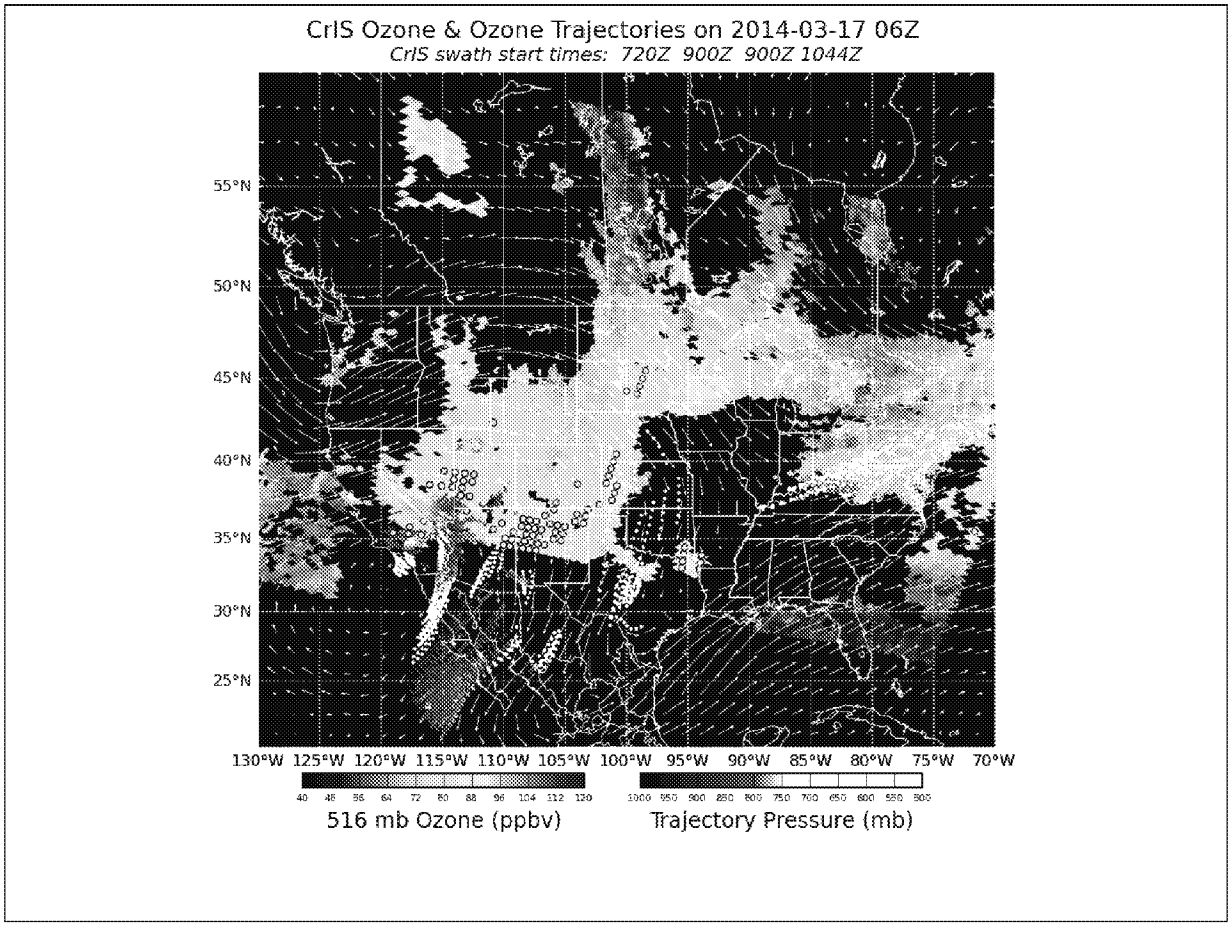
Pat Redding: It looks like there might be an intrusion event from northern Nevada through northern Utah into southern Colorado on Monday March 17 through the morning of March 18. This might be a good event to look at with the new IDEA tool.

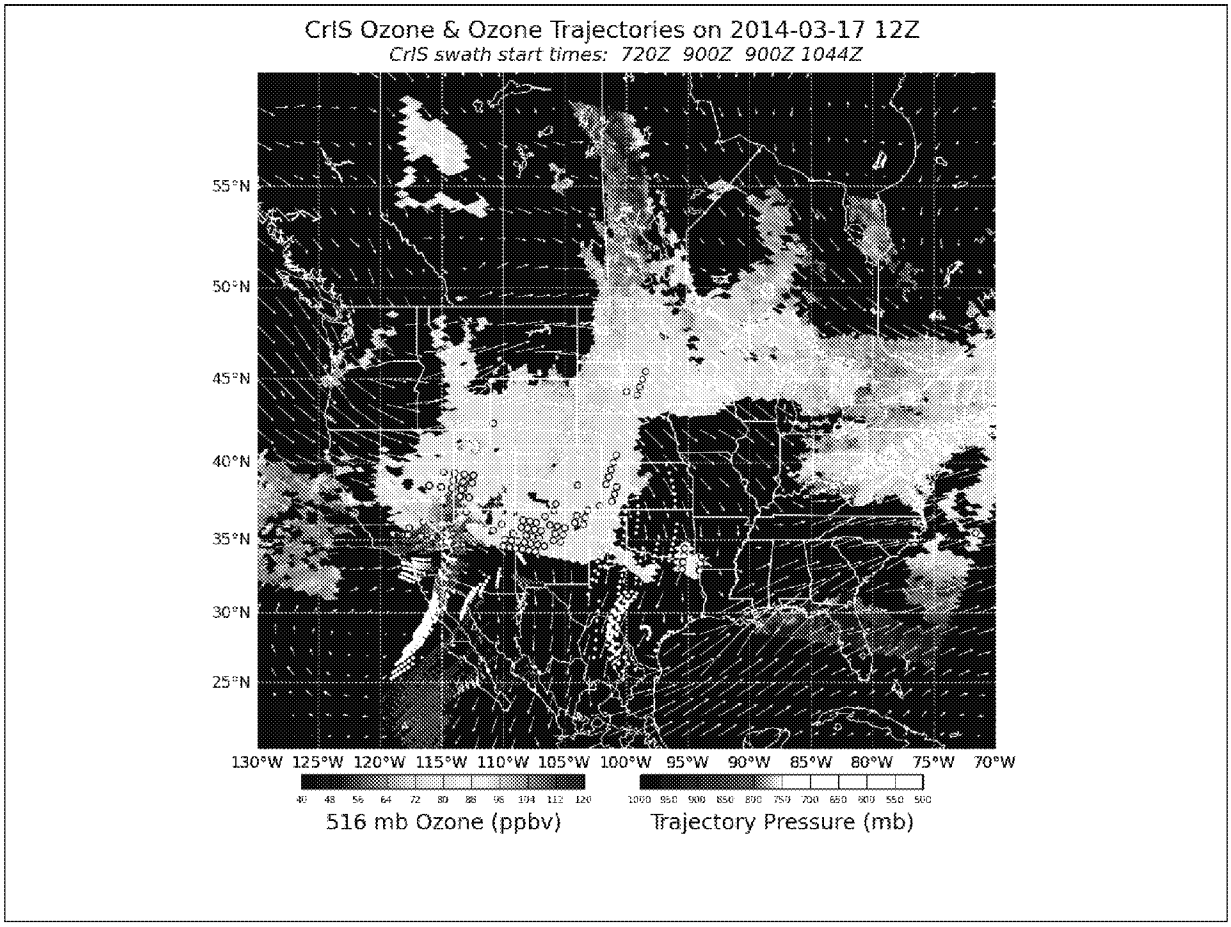


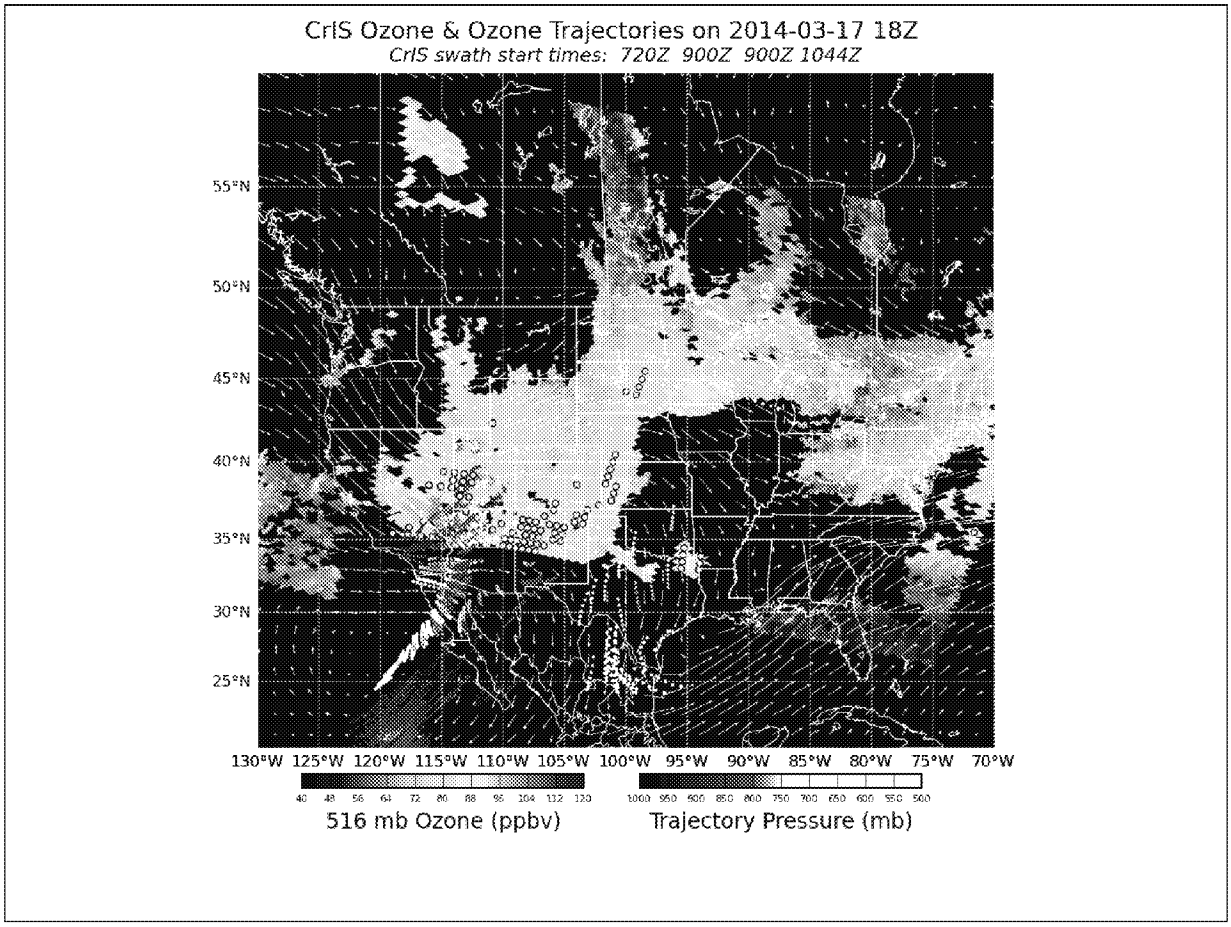
http://cimss.ssec.wisc.edu/idea-i/USozone/

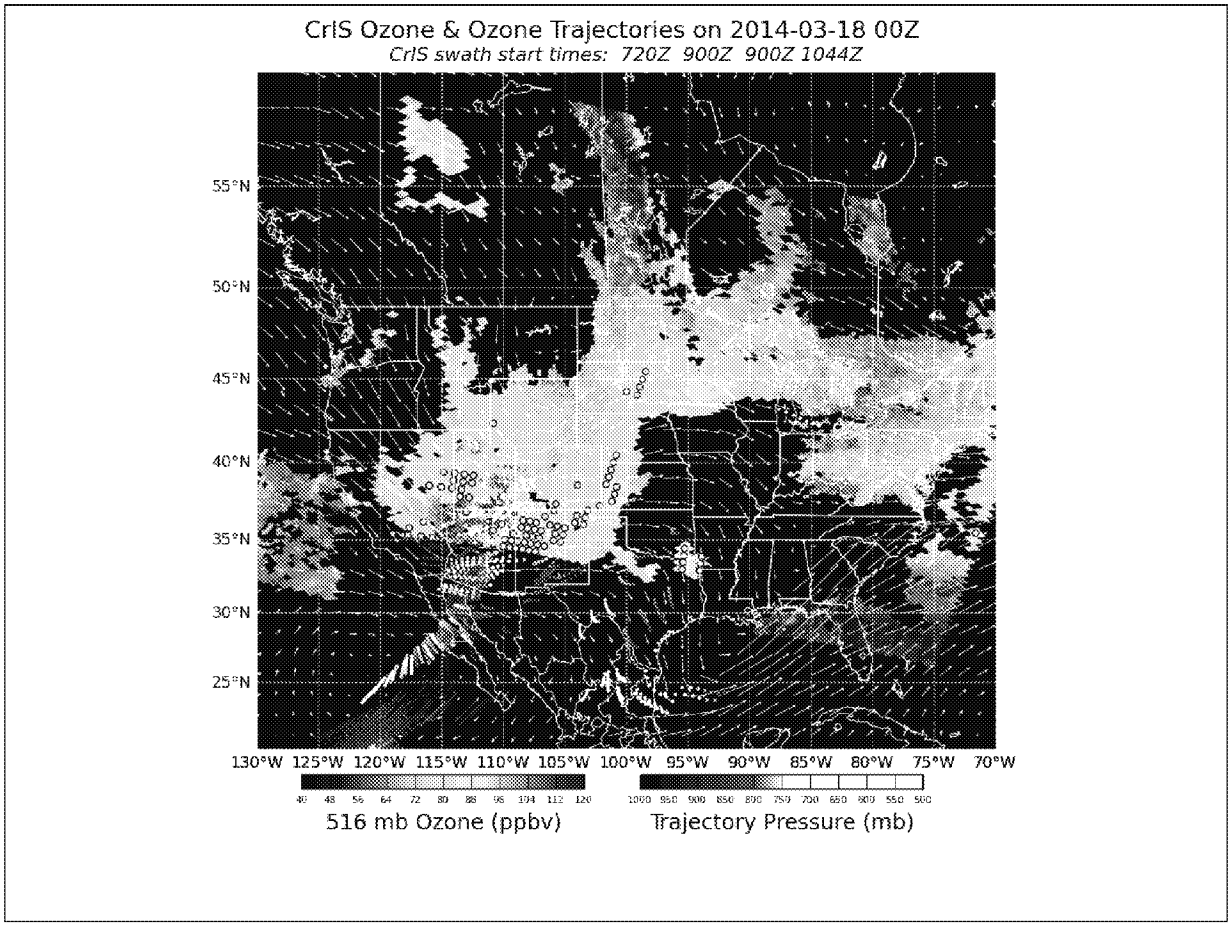

CrIS Ozone & Ozone Trajectories on 2014-03-16 18Z
CrIS swath start times: 720Z 900Z 900Z 1044Z
55°N
50°N
45°N
40°N
35°N
30°N
25°N
130°W 125°W 120°W 115°W 110°W 105°W 100°W 95°W 90°W 85°W 80°W 75°W 70°W
40 48 56 64 72 80 88 96 104 112 120
516 mb Ozone (ppbv)
1000 950 900 850 800 750 700 650 600 550 500
Trajectory Pressure (mb)

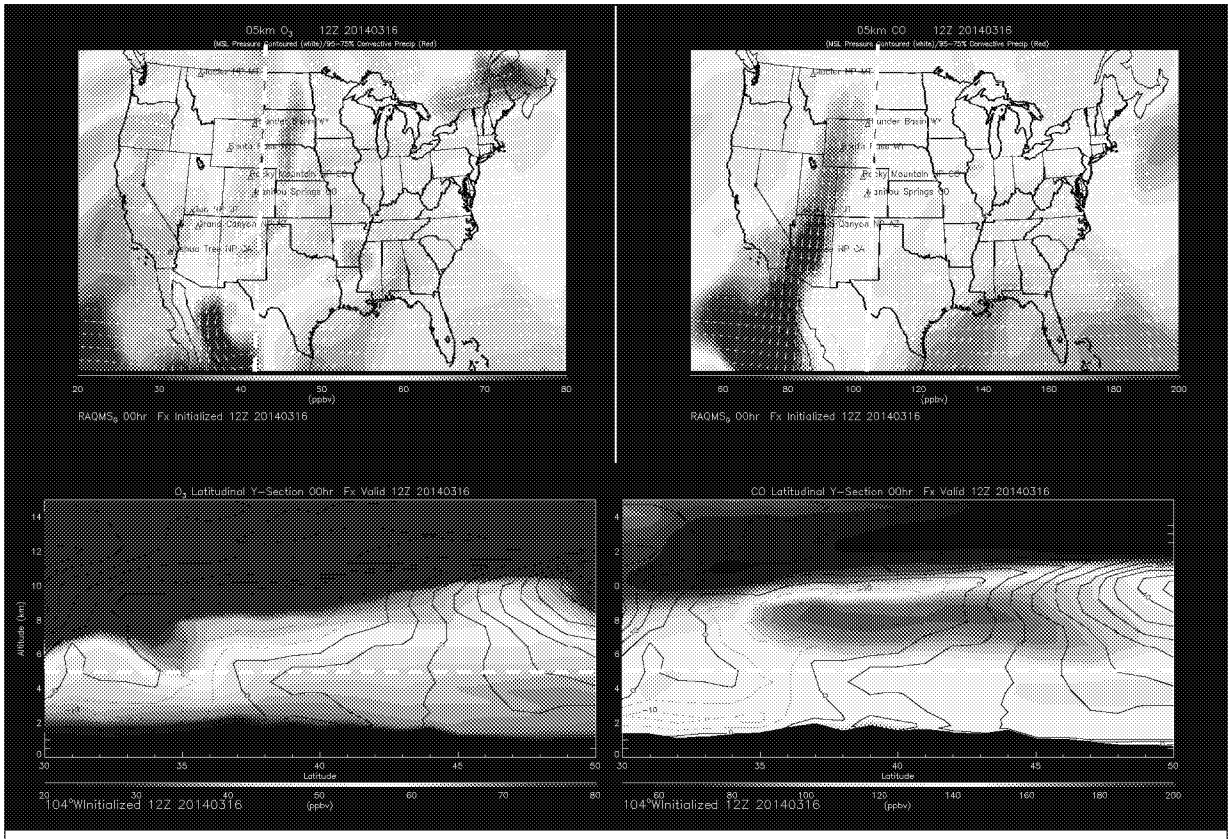

CrIS Ozone & Ozone Trajectories on 2014-03-17 00Z
CrIS swath start times: 720Z 900Z 900Z 1044Z
55°N
50°N
45°N
40°N
35°N
30°N
25°N
130°W 125°W 120°W 115°W 110°W 105°W 100°W 95°W 90°W 85°W 80°W 75°W 70°W
40 48 56 64 72 80 88 96 104 112 120
516 mb Ozone (ppbv)
1000 950 900 850 800 750 700 650 600 550 500
Trajectory Pressure (mb)


CrIS Ozone & Ozone Trajectories on 2014-03-17 06Z
CrIS swath start times: 720Z 900Z 900Z 1044Z
55°N
50°N
45°N
40°N
35°N
30°N
25°N
130°W 125°W 120°W 115°W 110°W 105°W 100°W 95°W 90°W 85°W 80°W 75°W 70°W
40 48 56 64 72 80 88 96 104 112 120
516 mb Ozone (ppbv)
1000 950 900 850 800 750 700 650 600 550 500
Trajectory Pressure (mb)

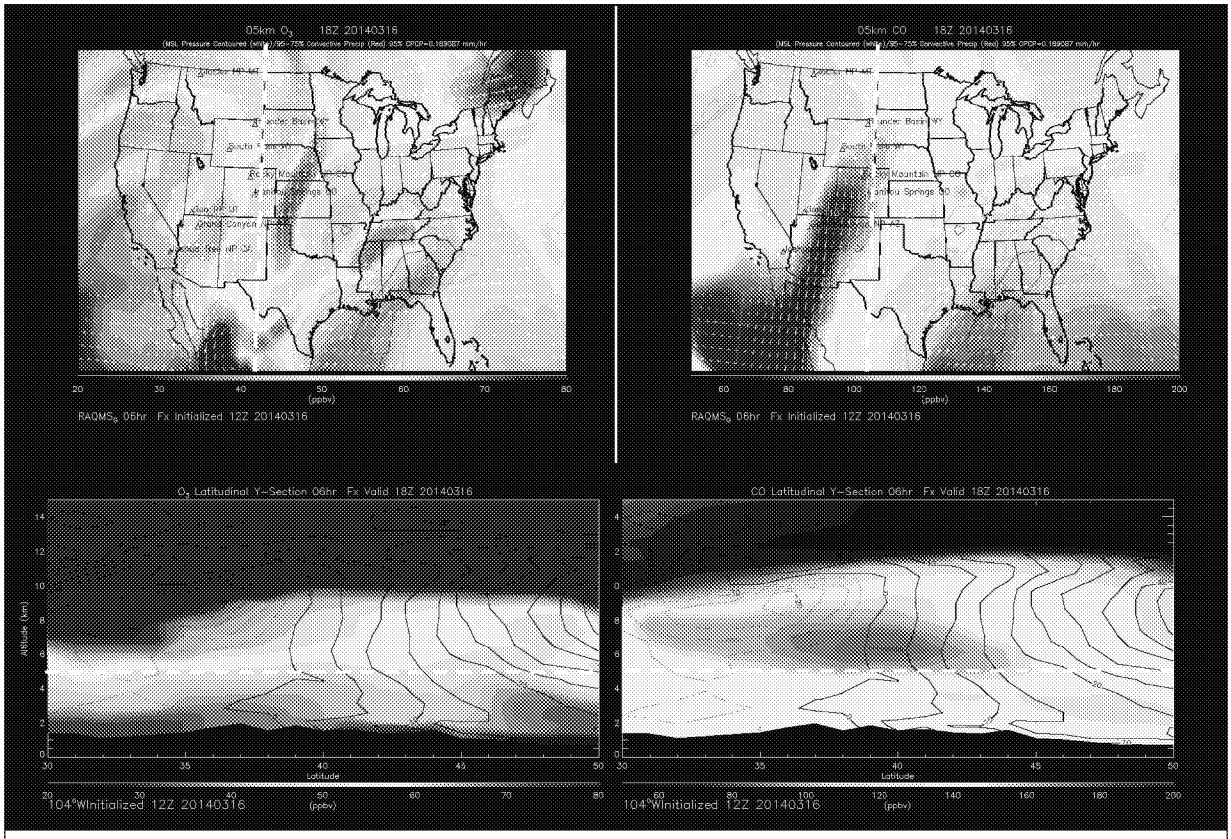

CrIS Ozone & Ozone Trajectories on 2014-03-17 12Z
CrIS swath start times: 720Z 900Z 900Z 1044Z
55°N
50°N
45°N
40°N
35°N
30°N
25°N
130°W 125°W 120°W 115°W 110°W 105°W 100°W 95°W 90°W 85°W 80°W 75°W 70°W
40 48 56 64 72 80 88 96 104 112 120
516 mb Ozone (ppbv)
1000 950 900 850 800 750 700 650 600 550 500
Trajectory Pressure (mb)

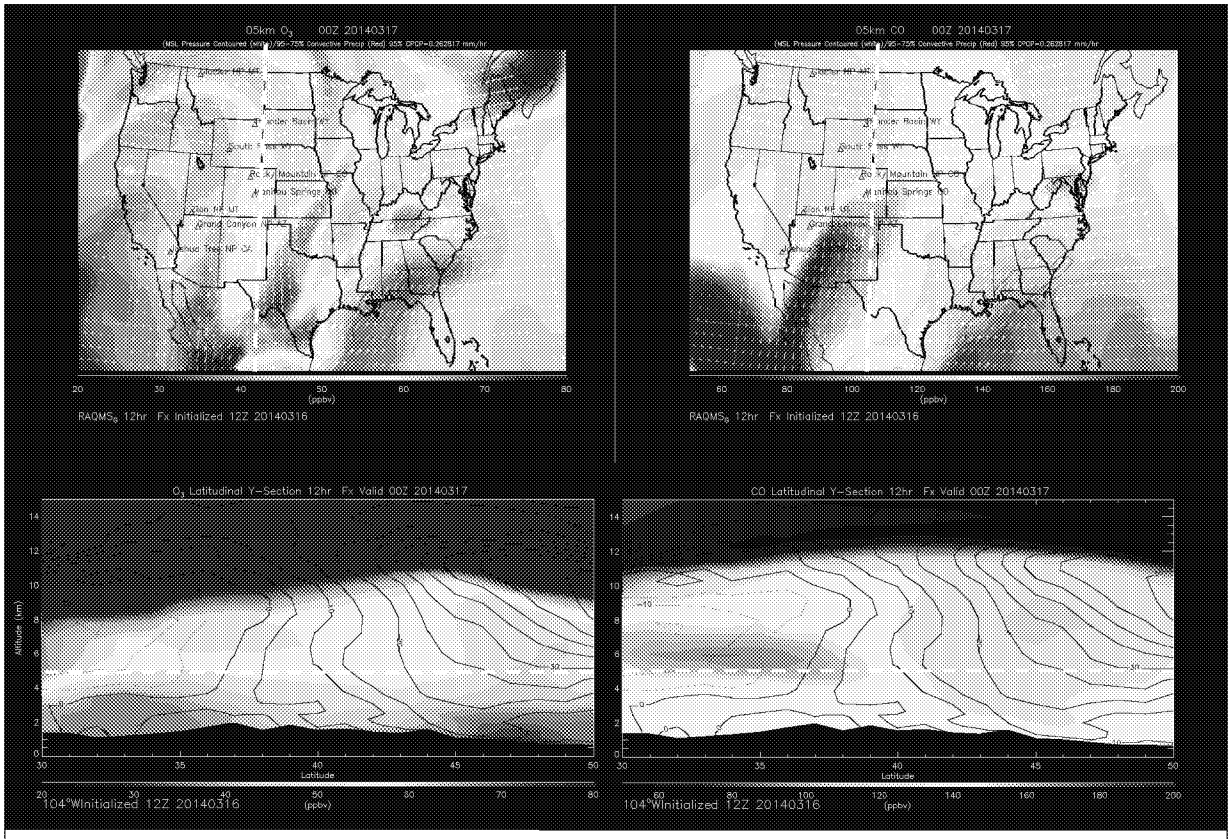

CrIS Ozone & Ozone Trajectories on 2014-03-17 18Z
CrIS swath start times: 720Z 900Z 900Z 1044Z
55°N
50°N
45°N
40°N
35°N
30°N
25°N
130°W 125°W 120°W 115°W 110°W 105°W 100°W 95°W 90°W 85°W 80°W 75°W 70°W
40 48 56 64 72 80 88 96 104 112 120
516 mb Ozone (ppbv)
1000 950 900 850 800 750 700 650 600 550 500
Trajectory Pressure (mb)

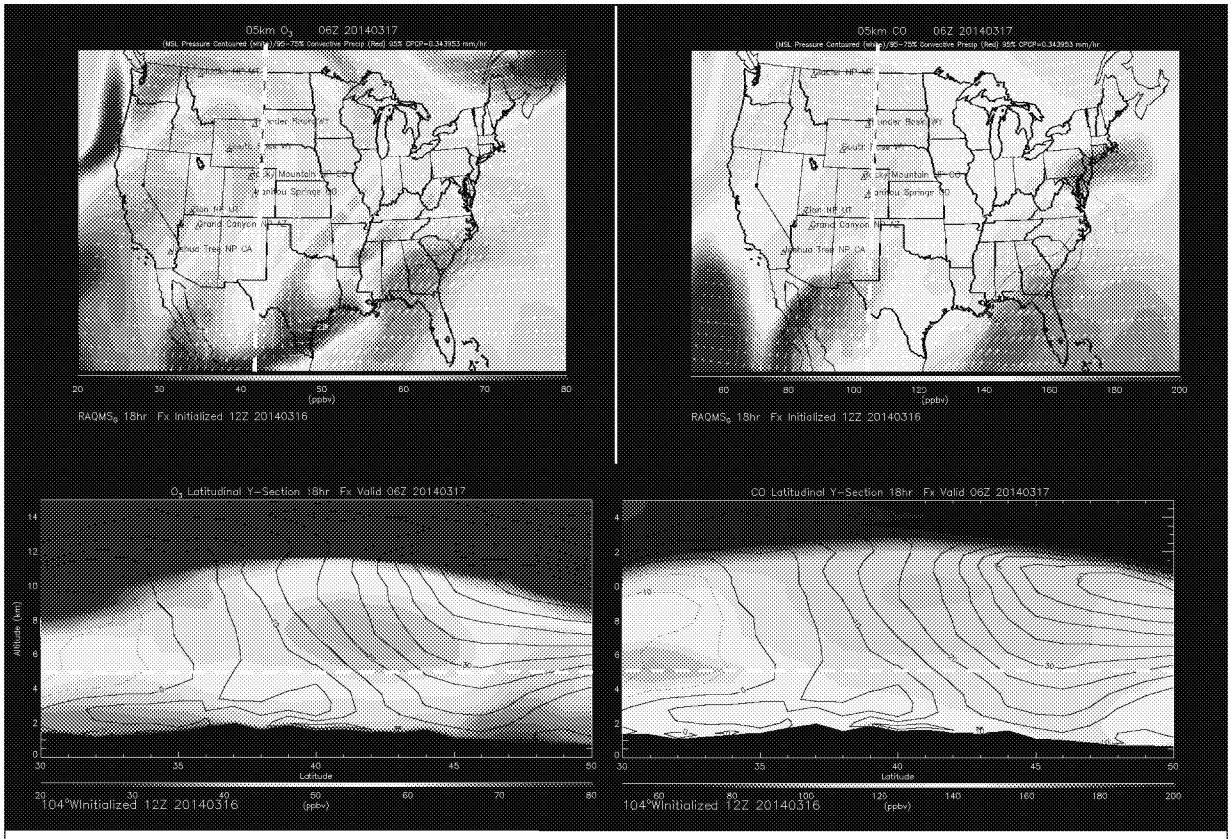

CrIS Ozone & Ozone Trajectories on 2014-03-18 00Z
CrIS swath start times: 720Z 900Z 900Z 1044Z
55°N
50°N
45°N
40°N
35°N
30°N
25°N
130°W 125°W 120°W 115°W 110°W 105°W 100°W 95°W 90°W 85°W 80°W 75°W 70°W
40 48 56 64 72 80 88 96 104 112 120
516 mb Ozone (ppbv)
1000 950 900 850 800 750 700 650 600 550 500
Trajectory Pressure (mb)

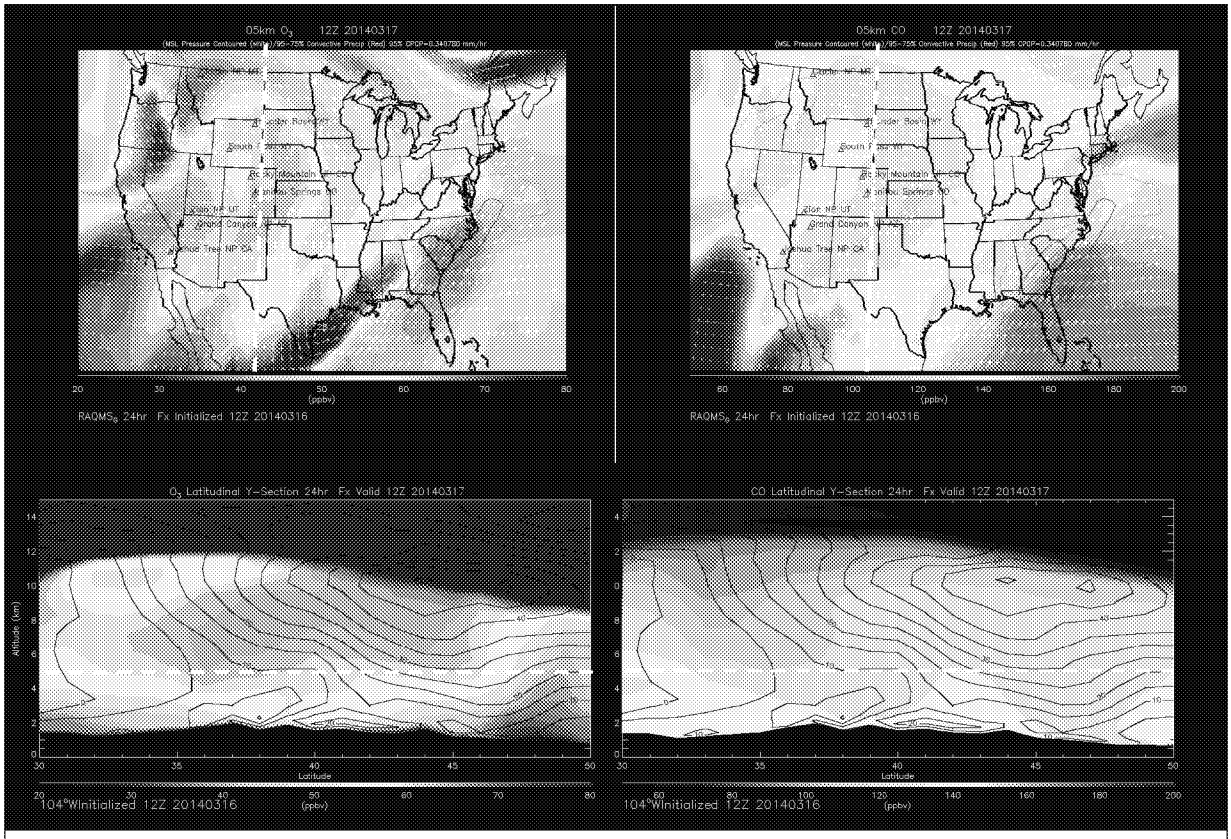


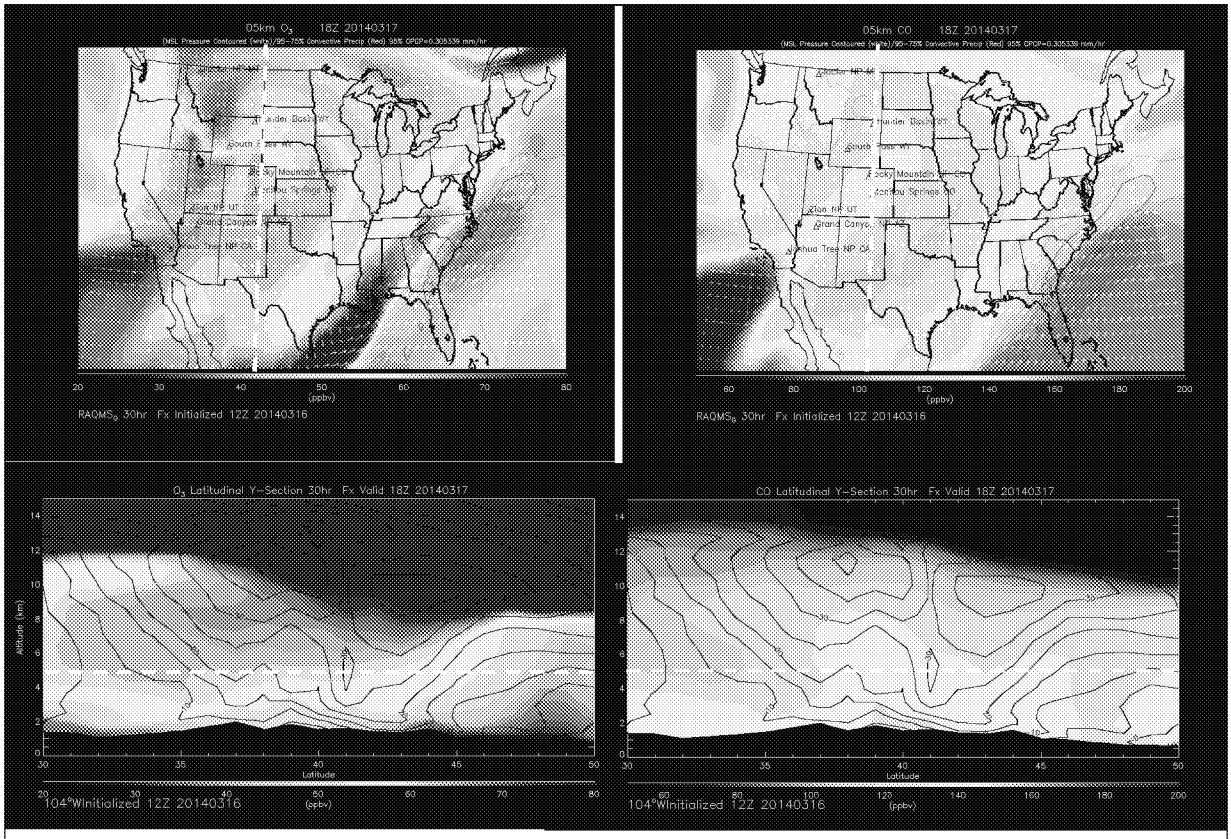
http://raqms.ssec.wisc.edu/forecast/view/20140316

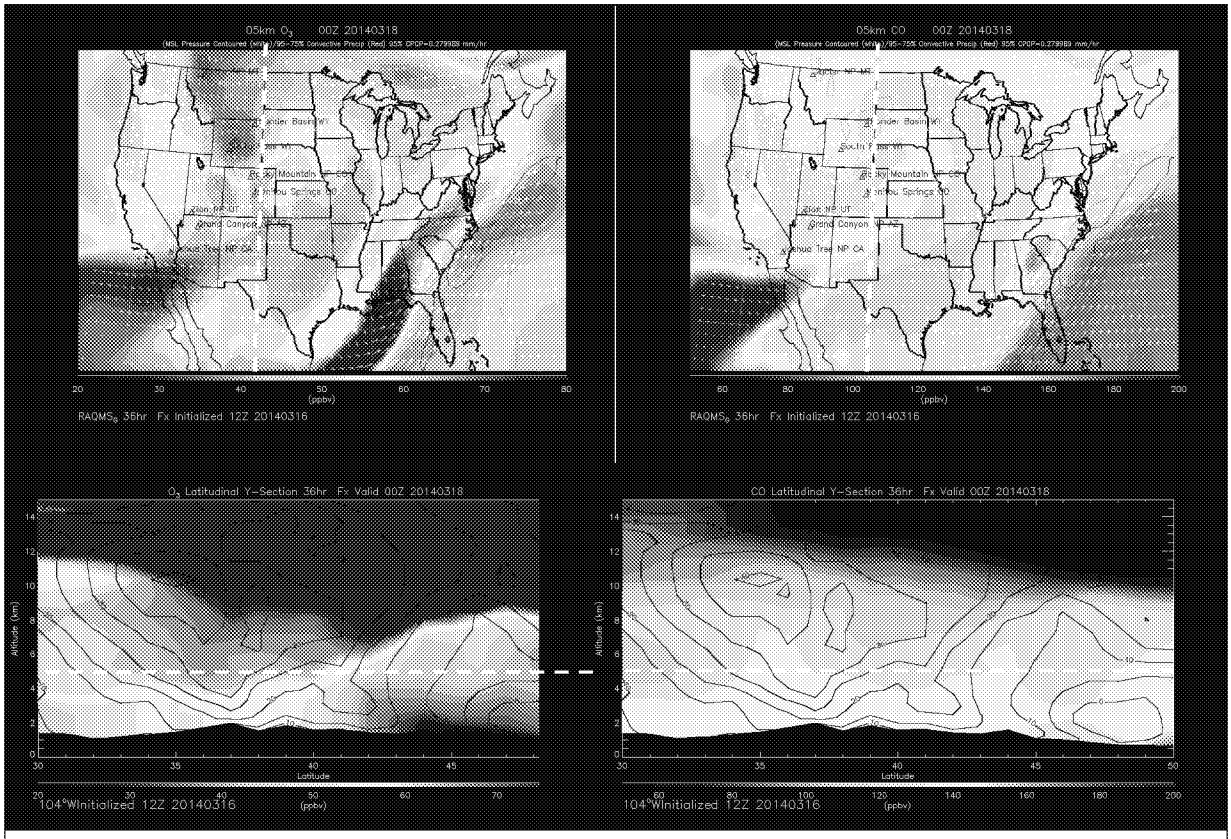

05km O3 18Z 20140316
(MSL Pressure Contoured (mb)) 95-75% Convective Precip (Red) 95% QPCP=0.189087 mm/hr
(ppbv)
RAQMS6 06hr Fx Initialized 12Z 20140316
05km CO 18Z 20140316
(MSL Pressure Contoured (mb)) 95-75% Convective Precip (Red) 95% QPCP=0.189087 mm/hr
(ppbv)
RAQMS6 06hr Fx Initialized 12Z 20140316
O3 Latitudinal Y-Section 06hr Fx Valid 18Z 20140316
Altitude (km)
Latitude
104°W Initialized 12Z 20140316
(ppbv)
CO Latitudinal Y-Section 06hr Fx Valid 18Z 20140316
Latitude
104°W Initialized 12Z 20140316
(ppbv)

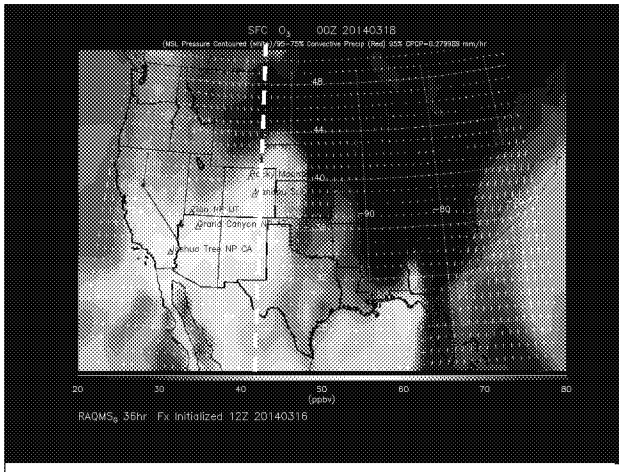

05km O3 00Z 20140317
(MSL Pressure Contoured (white)/95-75% Convective Precip (Red) 95% CPCP=0.262517 mm/hr
20 30 40 50 60 70 80
(ppbv)
RAQMS6 12hr Fx Initialized 12Z 20140316
05km CO 00Z 20140317
(MSL Pressure Contoured (white)/95-75% Convective Precip (Red) 95% CPCP=0.262517 mm/hr
60 80 100 120 140 160 180 200
(ppbv)
RAQMS6 12hr Fx Initialized 12Z 20140316
O3 Latitudinal Y-Section 12hr Fx Valid 00Z 20140317
Altitude (km)
Latitude
104°WInitialized 12Z 20140316
(ppbv)
CO Latitudinal Y-Section 12hr Fx Valid 00Z 20140317
Latitude
104°WInitialized 12Z 20140316
(ppbv)

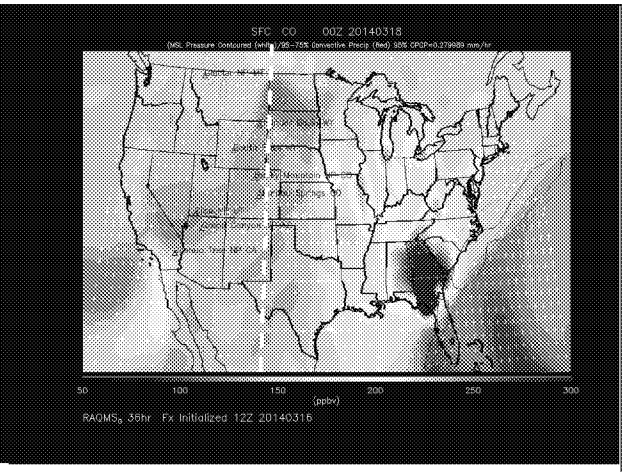

05km O3 06Z 20140317
(MSL Pressure Contoured (mb)) 95-75% Convective Precip (Red) 95% CPCP=0.343953 mm/hr
Mountain
Zion NP UT
Grand Canyon NP
Joshua Tree NP CA
20 30 40 50 60 70 80
(ppbv)
RAQMS6 18hr Fx Initialized 12Z 20140316
05km CO 06Z 20140317
(MSL Pressure Contoured (mb)) 95-75% Convective Precip (Red) 95% CPCP=0.343953 mm/hr
Mountain
Zion NP UT
Grand Canyon NP
Joshua Tree NP CA
60 80 100 120 140 160 180 200
(ppbv)
RAQMS6 18hr Fx Initialized 12Z 20140316
O3 Latitudinal Y-Section 18hr Fx Valid 06Z 20140317
Altitude (km)
Latitude
104°W Initialized 12Z 20140316
(ppbv)
CO Latitudinal Y-Section 18hr Fx Valid 06Z 20140317
Latitude
104°W Initialized 12Z 20140316
(ppbv)


05km O3 12Z 20140317
(MSL Pressure Contoured (Mb)) 95-75% Convective Precip (Red) 95% CPCP=0.3407BD mm/hr
20 30 40 50 60 70 80
(ppbv)
RAQMS6 24hr Fx Initialized 12Z 20140316
05km CO 12Z 20140317
(MSL Pressure Contoured (Mb)) 95-75% Convective Precip (Red) 95% CPCP=0.3407BD mm/hr
60 80 100 120 140 160 180 200
(ppbv)
RAQMS6 24hr Fx Initialized 12Z 20140316
O3 Latitudinal Y-Section 24hr Fx Valid 12Z 20140317
Altitude (km)
Latitude
104°W Initialized 12Z 20140316
(ppbv)
CO Latitudinal Y-Section 24hr Fx Valid 12Z 20140317
Latitude
104°W Initialized 12Z 20140316
(ppbv)


05km O3 18Z 20140317
(MSL Pressure Contoured (white)/95-75% Convective Precip (Red) 95% CPCP=0.305339 mm/hr
Rocky Mountain NP CO
Zion NP UT
Grand Canyon
Joshua Tree NP CA
20 30 40 50 60 70 80
(ppbv)
RAQMS6 30hr Fx Initialized 12Z 20140316
05km CO 18Z 20140317
(MSL Pressure Contoured (white)/95-75% Convective Precip (Red) 95% CPCP=0.305339 mm/hr
60 80 100 120 140 160 180 200
(ppbv)
RAQMS6 30hr Fx Initialized 12Z 20140316
O3 Latitudinal Y-Section 30hr Fx Valid 18Z 20140317
Altitude (km)
Latitude
104°WInitialized 12Z 20140316
(ppbv)
CO Latitudinal Y-Section 30hr Fx Valid 18Z 20140317
Latitude
104°WInitialized 12Z 20140316
(ppbv)

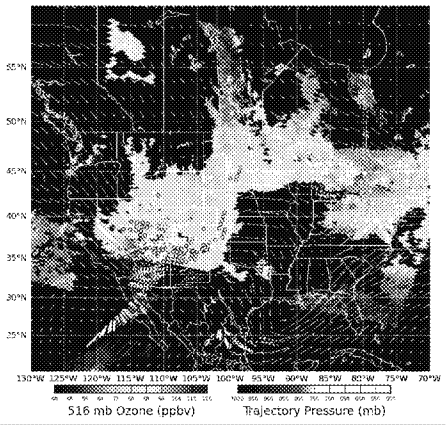

05km O3 00Z 20140318
(MSL Pressure Contoured (Mb)/95-75% Convective Precip (Red) 95% CPCP=0.279989 mm/hr
Green Bay WI
Rocky Mountain
Grand Canyon
Joshua Tree NP CA
(ppbv)
RAQMS6 36hr Fx Initialized 12Z 20140316
05km CO 00Z 20140318
(MSL Pressure Contoured (Mb)/95-75% Convective Precip (Red) 95% CPCP=0.279989 mm/hr
Green Bay WI
Rocky Mountain
Grand Canyon
Joshua Tree NP CA
(ppbv)
RAQMS6 36hr Fx Initialized 12Z 20140316
O3 Latitudinal Y-Section 36hr Fx Valid 00Z 20140318
Altitude (km)
Latitude
104°W Initialized 12Z 20140316
(ppbv)
CO Latitudinal Y-Section 36hr Fx Valid 00Z 20140318
Altitude (km)
Latitude
104°W Initialized 12Z 20140316
(ppbv)

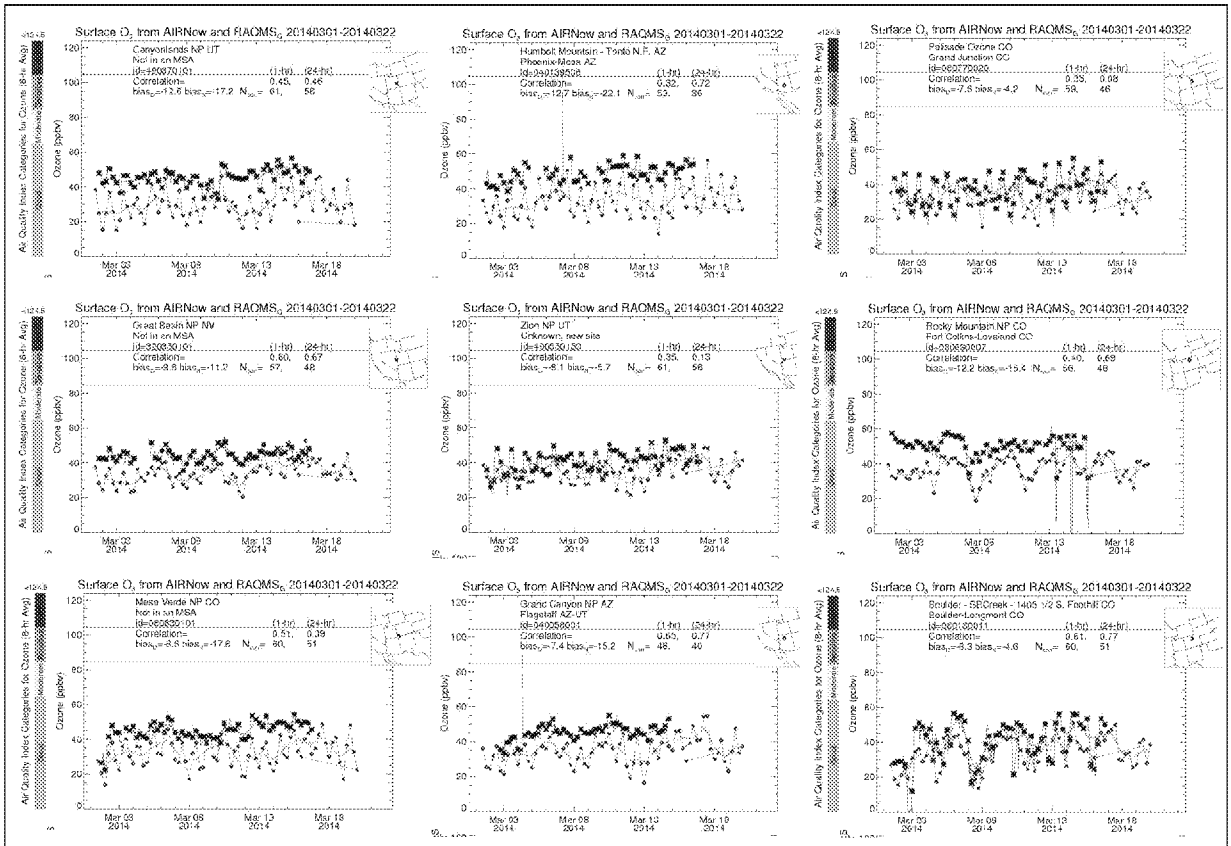




CrIS Ozone & Ozone Trajectories on 2014-03-18 00Z

CrIS swath start times: 720Z 900Z 900Z 1044Z





RAQMS surface ozone is low biased by 6-12 ppbv (daytime) to 5-22 ppbv (nighttime) in rural NV/UT/AZ/CO