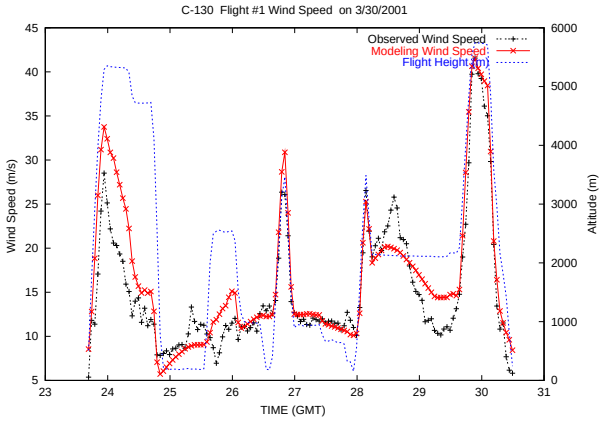
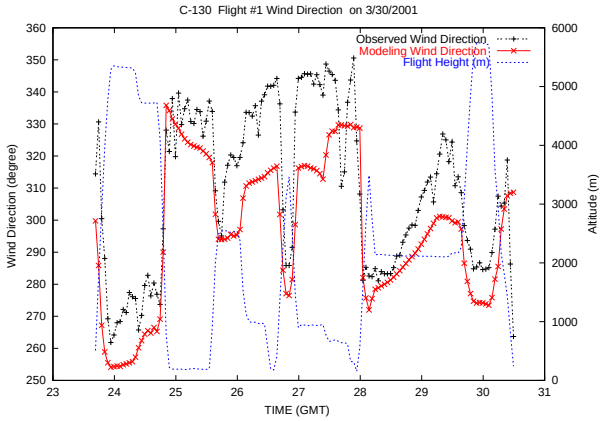
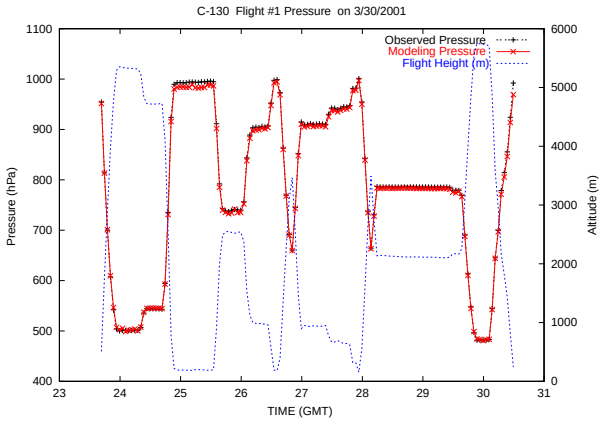
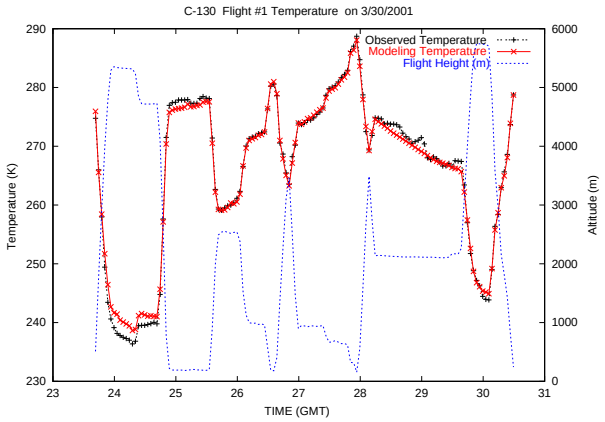
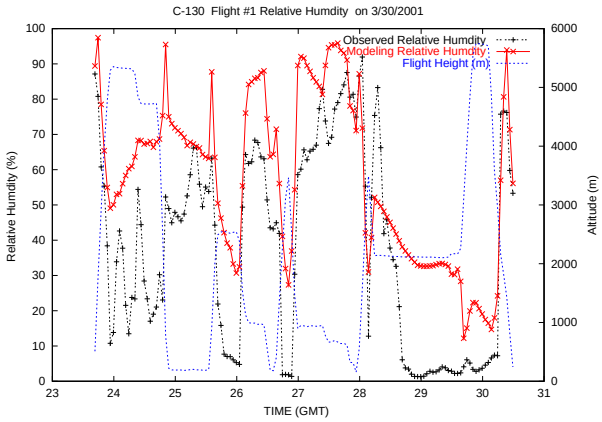
# ACE-ASIA C-130 Flight #1

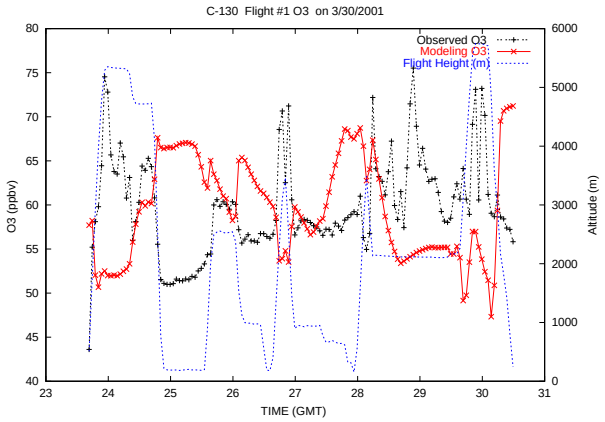


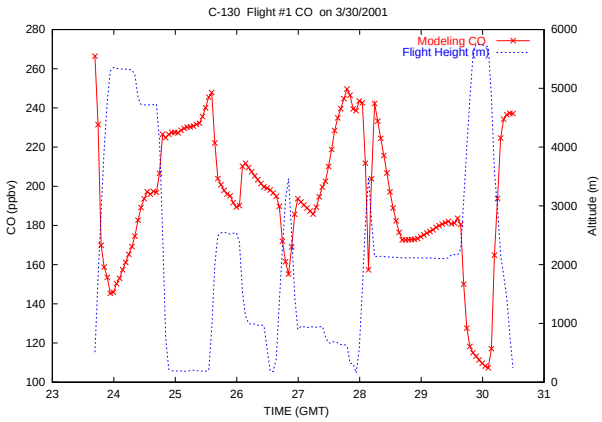



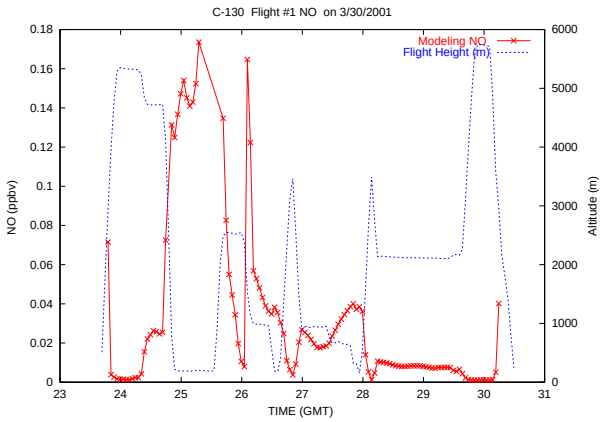



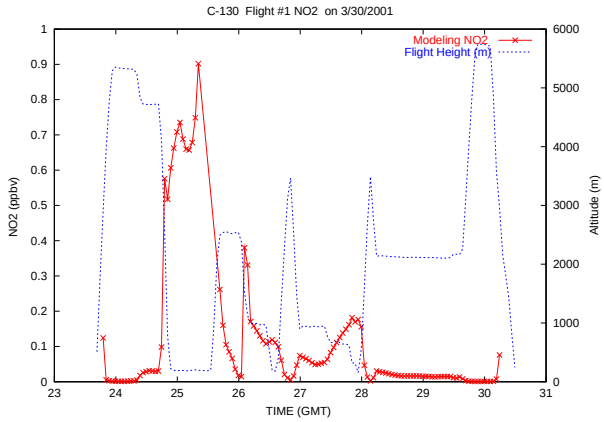



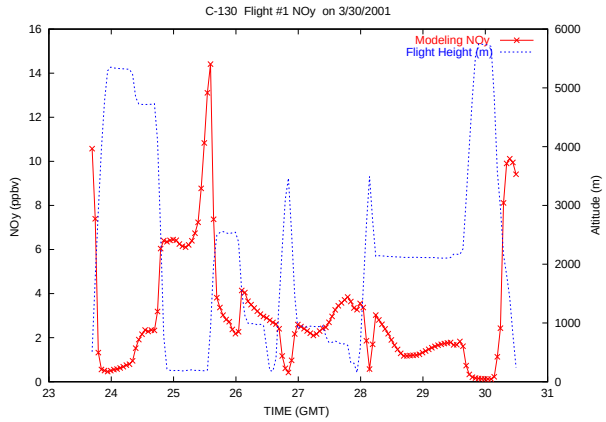



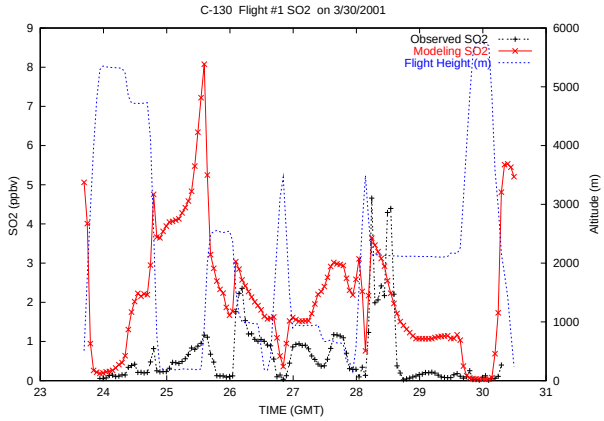



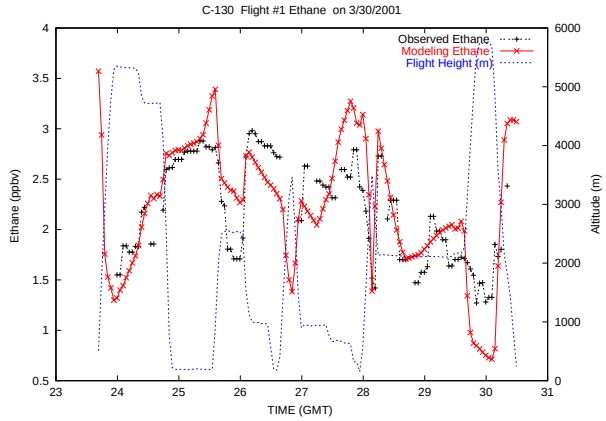



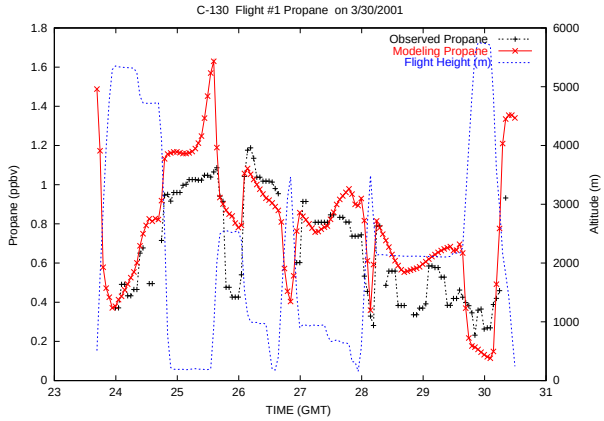



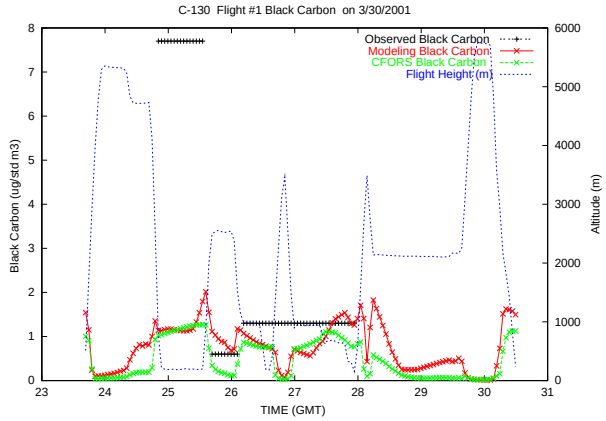

C-130 Flight #1 NO2 on 3/30/2001
Modeling NO2
Flight Height (m)
NO2 (ppbv)
Altitude (m)
TIME (GMT)

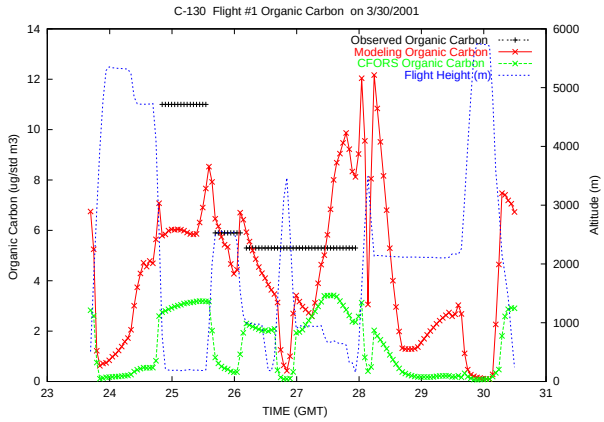

C-130 Flight #1 NOy on 3/30/2001
Modeling NOy
Flight Height (m)
NOy (ppbv)
Altitude (m)
TIME (GMT)

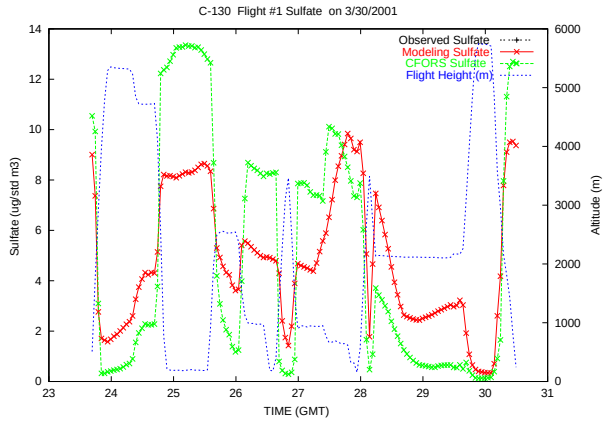

C-130 Flight #1 SO2 on 3/30/2001
Observed SO2
Modeling SO2
Flight Height (m)
SO2 (ppbv)
Altitude (m)
TIME (GMT)

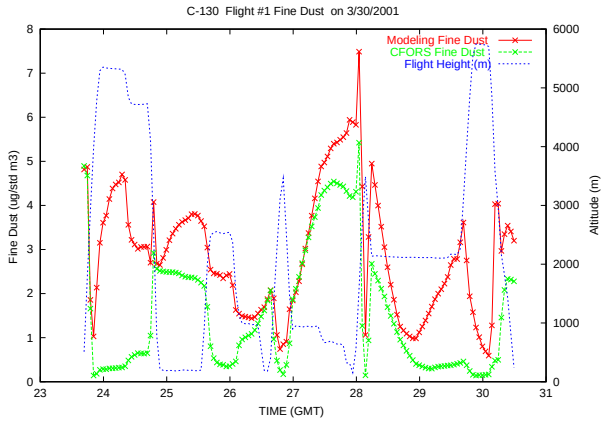

C-130 Flight #1 Ethane on 3/30/2001
Observed Ethane
Modeling Ethane
Flight Height (m)
Ethane (ppbv)
Altitude (m)
TIME (GMT)

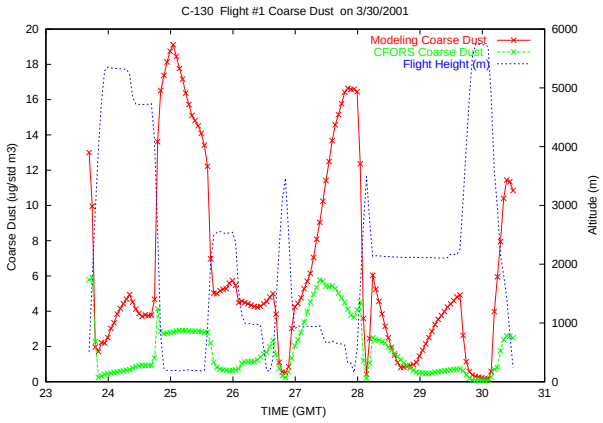

C-130 Flight #1 Propane on 3/30/2001
Observed Propane
Modeling Propane
Flight Height (m)
Propane (ppbv)
Altitude (m)
TIME (GMT)

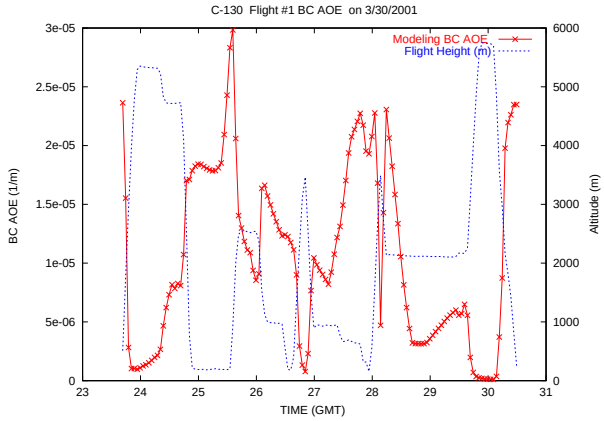

C-130 Flight #1 Black Carbon on 3/30/2001
Observed Black Carbon
Modeling Black Carbon
CFORS Black Carbon
Flight Height (m)
Black Carbon (ug/std m3)
Altitude (m)
TIME (GMT)

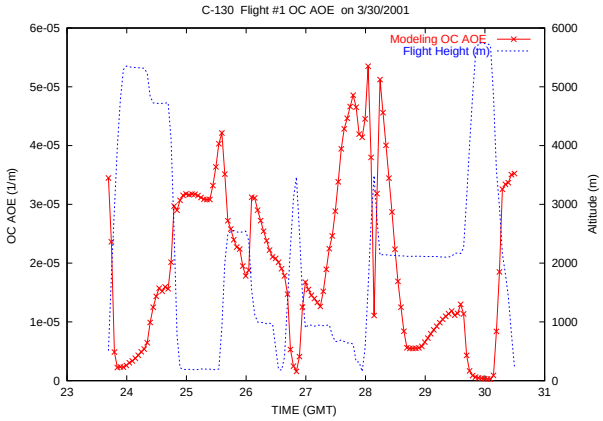

C-130 Flight #1 Organic Carbon on 3/30/2001
Observed Organic Carbon
Modeling Organic Carbon
CFORS Organic Carbon
Flight Height (m)
Organic Carbon (ug/std m3)
Altitude (m)
TIME (GMT)

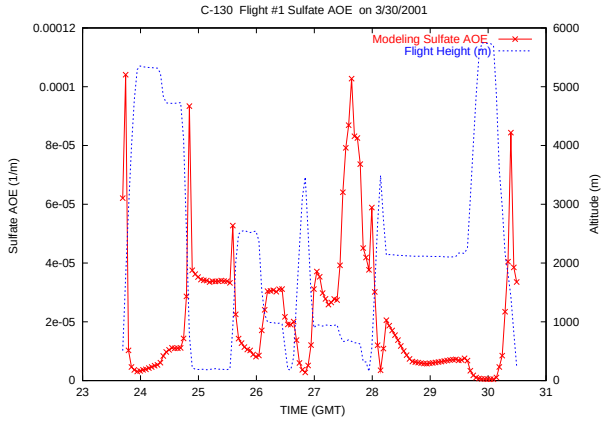

C-130 Flight #1 Sulfate on 3/30/2001
Observed Sulfate
Modeling Sulfate
CFORS Sulfate
Flight Height (m)
Sulfate (ug/std m3)
Altitude (m)
TIME (GMT)

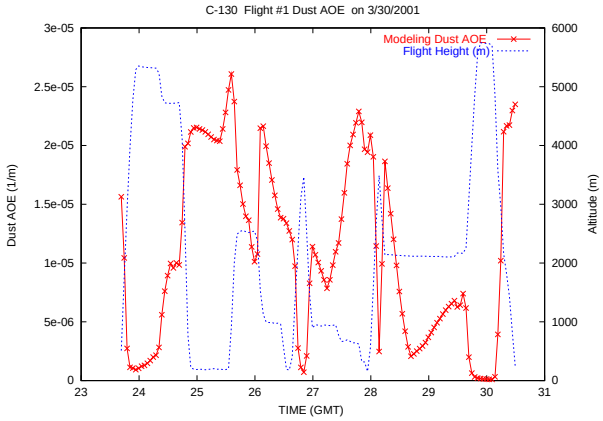

C-130 Flight #1 Fine Dust on 3/30/2001
Modeling Fine Dust
CFORS Fine Dust
Flight Height (m)
Fine Dust (ug/std m3)
Altitude (m)
TIME (GMT)

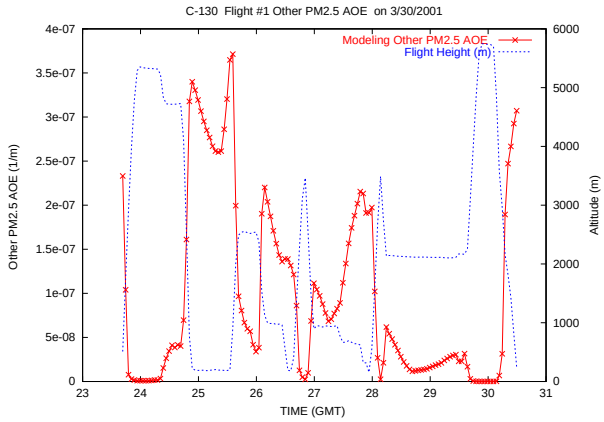

C-130 Flight #1 Coarse Dust on 3/30/2001
Modeling Coarse Dust
CFORS Coarse Dust
Flight Height (m)
Coarse Dust (ug/std m3)
Altitude (m)
TIME (GMT)

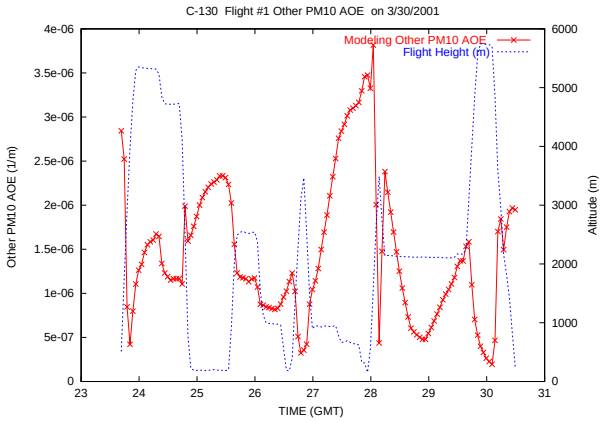

C-130 Flight #1 BC AOE on 3/30/2001
Modeling BC AOE
Flight Height (m)
BC AOE (1/m)
Altitude (m)
TIME (GMT)

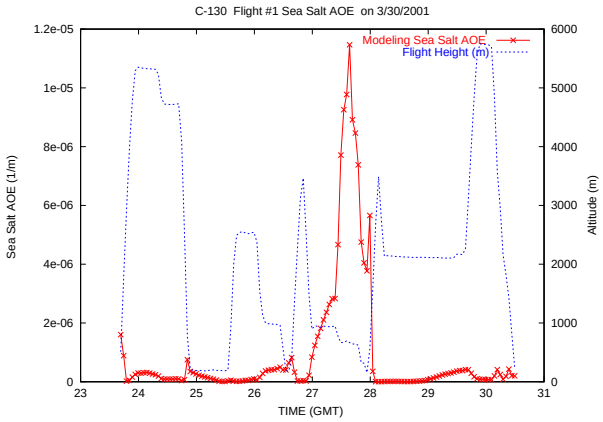

C-130 Flight #1 OC AOE on 3/30/2001
Modeling OC AOE
Flight Height (m)
OC AOE (1/m)
Altitude (m)
TIME (GMT)

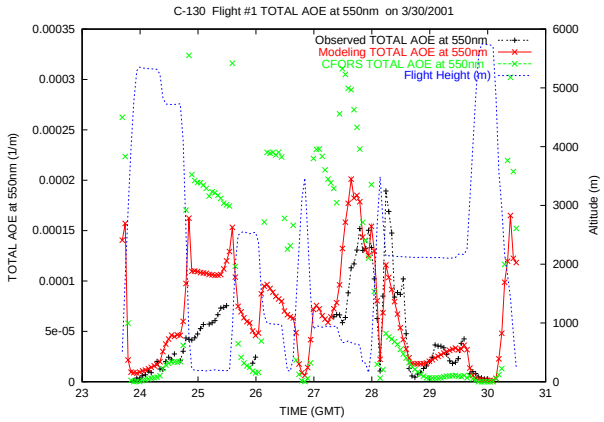

C-130 Flight #1 Sulfate AOE on 3/30/2001
Modeling Sulfate AOE
Flight Height (m)
Sulfate AOE (1/m)
Altitude (m)
TIME (GMT)


C-130 Flight #1 Dust AOE on 3/30/2001
Modeling Dust AOE
Flight Height (m)
Dust AOE (1/m)
Altitude (m)
TIME (GMT)

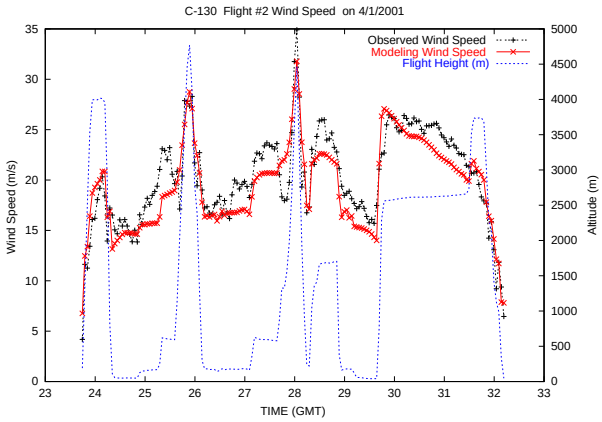

C-130 Flight #1 Other PM2.5 AOE on 3/30/2001
Modeling Other PM2.5 AOE
Flight Height (m)
Other PM2.5 AOE (1/m)
Altitude (m)
TIME (GMT)

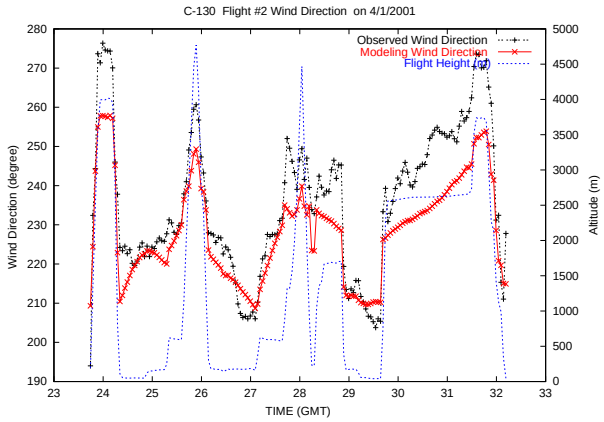

C-130 Flight #1 Other PM10 AOE on 3/30/2001
Modeling Other PM10 AOE
Flight Height (m)
Other PM10 AOE (1/m)
Altitude (m)
TIME (GMT)

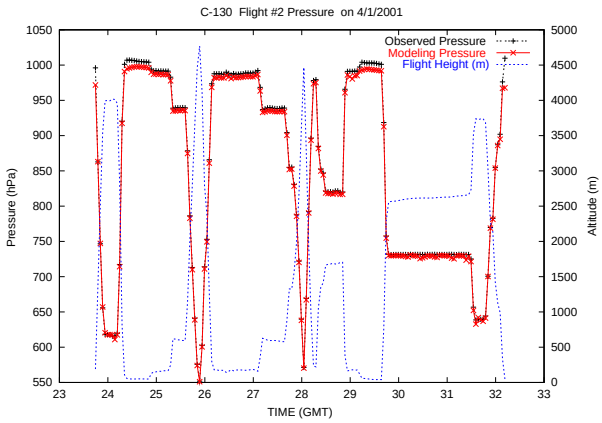

C-130 Flight #1 Sea Salt AOE on 3/30/2001
Modeling Sea Salt AOE
Flight Height (m)
Sea Salt AOE (1/m)
Altitude (m)
TIME (GMT)
1.2e-05
1e-05
8e-06
6e-06
4e-06
2e-06
0
6000
5000
4000
3000
2000
1000
0
23
24
25
26
27
28
29
30
31

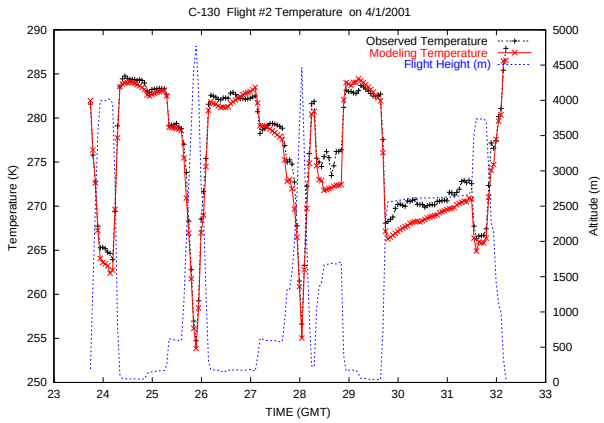

C-130 Flight #1 TOTAL AOE at 550nm on 3/30/2001
Observed TOTAL AOE at 550nm
Modeling TOTAL AOE at 550nm
CFORS TOTAL AOE at 550nm
Flight Height (m)
TOTAL AOE at 550nm (1/m)
Altitude (m)
TIME (GMT)
0.00035
0.0003
0.00025
0.0002
0.00015
0.0001
5e-05
0
6000
5000
4000
3000
2000
1000
0
23
24
25
26
27
28
29
30
31

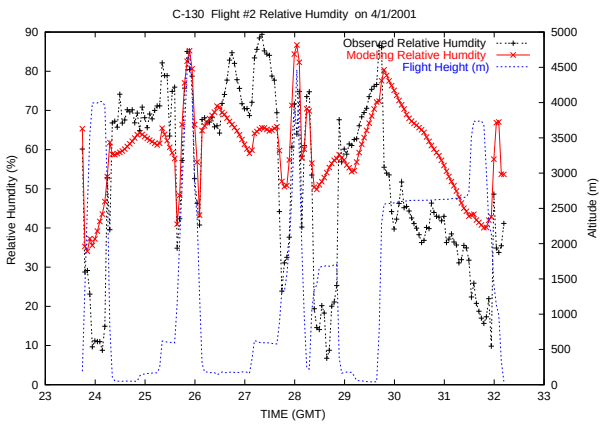
# ACE-ASIA C-130 Flight #2

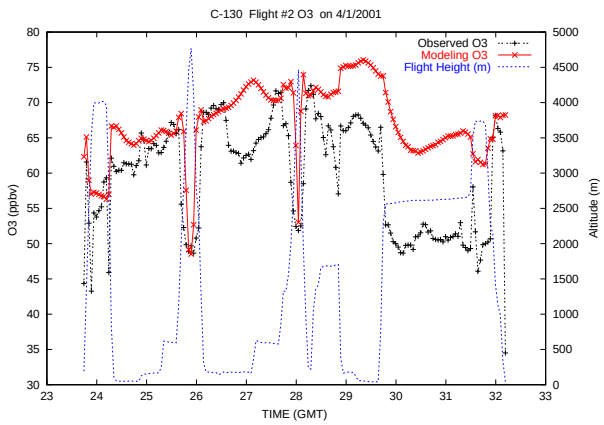


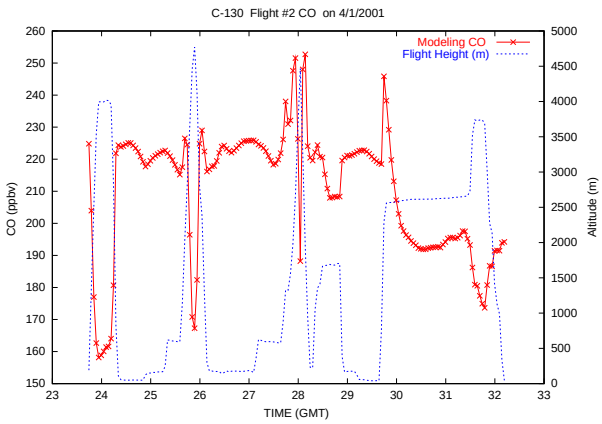



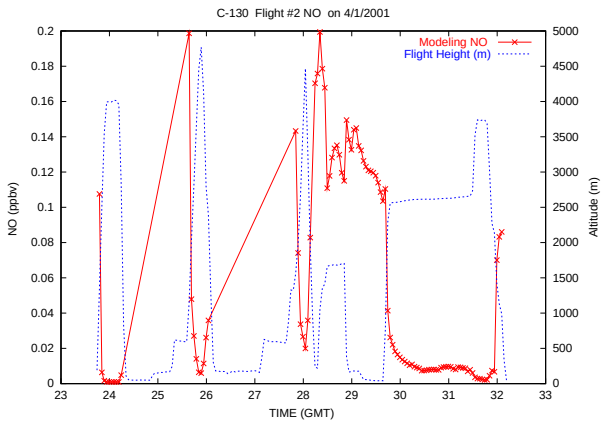



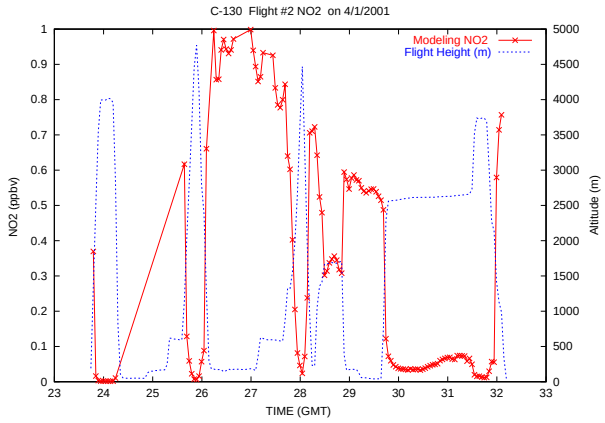



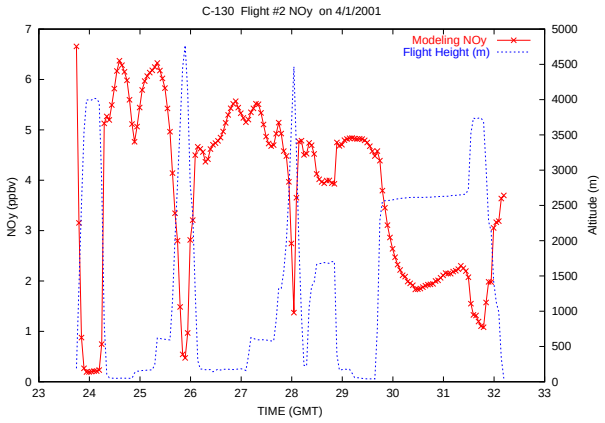



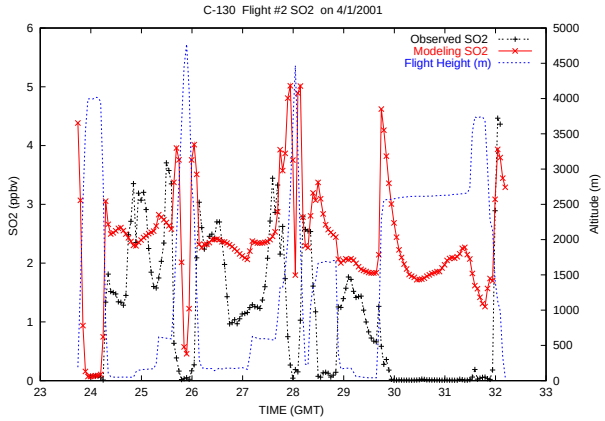



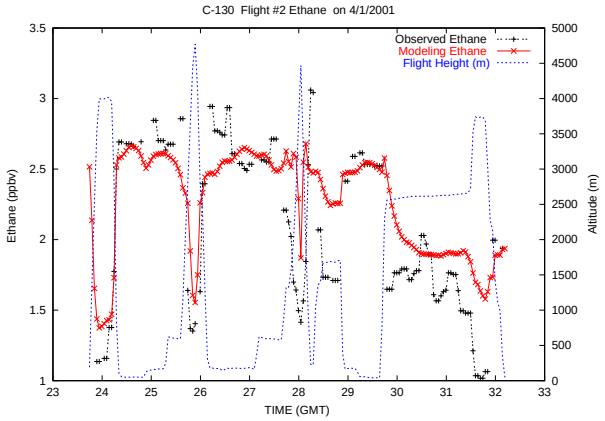



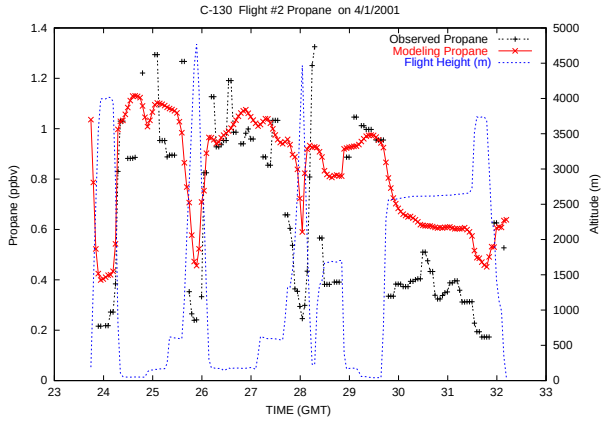



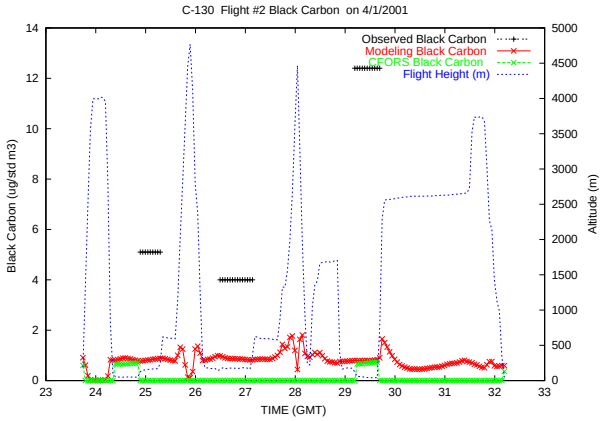

C-130 Flight #2 NO2 on 4/1/2001
Modeling NO2
Flight Height (m)
NO2 (ppbv)
Altitude (m)
TIME (GMT)

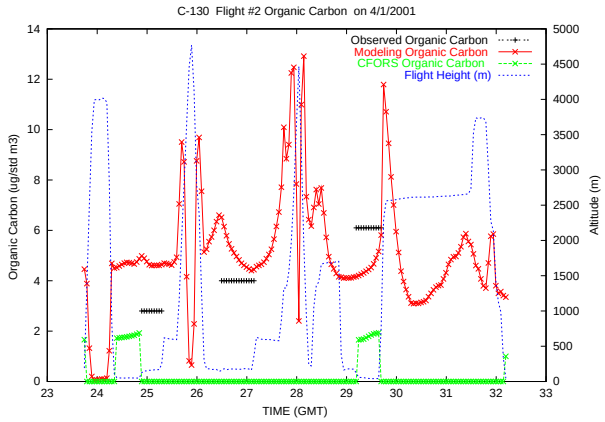

C-130 Flight #2 NOy on 4/1/2001
Modeling NOy
Flight Height (m)
NOy (ppbv)
Altitude (m)
TIME (GMT)

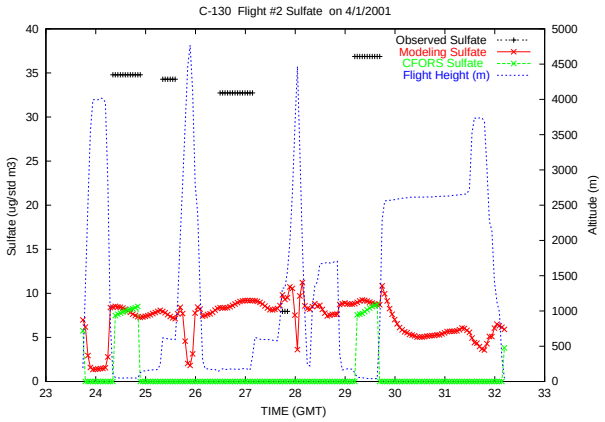

C-130 Flight #2 SO2 on 4/1/2001
Observed SO2
Modeling SO2
Flight Height (m)
SO2 (ppbv)
Altitude (m)
TIME (GMT)

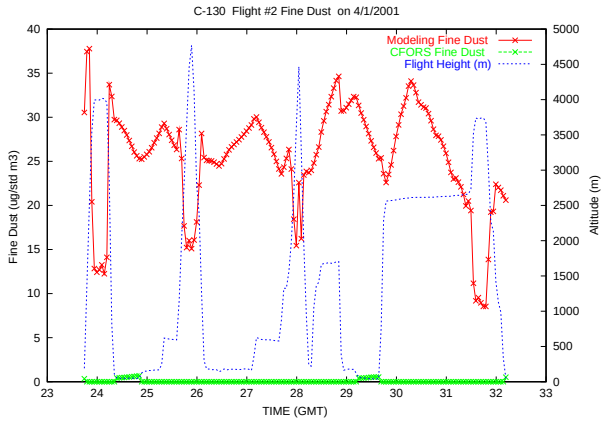

C-130 Flight #2 Ethane on 4/1/2001
Observed Ethane
Modeling Ethane
Flight Height (m)
Ethane (ppbv)
Altitude (m)
TIME (GMT)

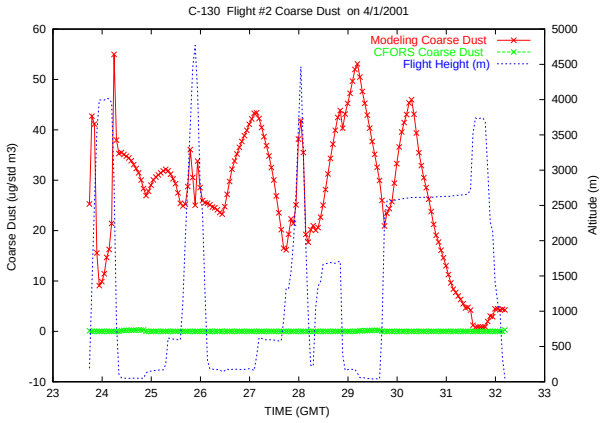

C-130 Flight #2 Propane on 4/1/2001
Observed Propane
Modeling Propane
Flight Height (m)
Propane (ppbv)
Altitude (m)
TIME (GMT)

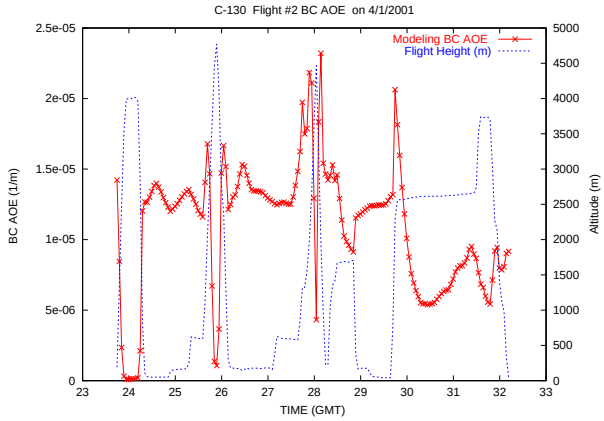

C-130 Flight #2 Black Carbon on 4/1/2001
Observed Black Carbon
Modeling Black Carbon
CFORS Black Carbon
Flight Height (m)
Black Carbon (ug/std m3)
Altitude (m)
TIME (GMT)

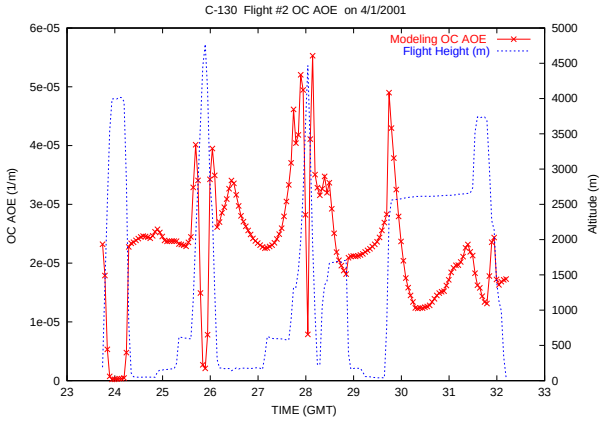

C-130 Flight #2 Organic Carbon on 4/1/2001
Observed Organic Carbon
Modeling Organic Carbon
CFORS Organic Carbon
Flight Height (m)
Organic Carbon (ug/std m3)
Altitude (m)
TIME (GMT)

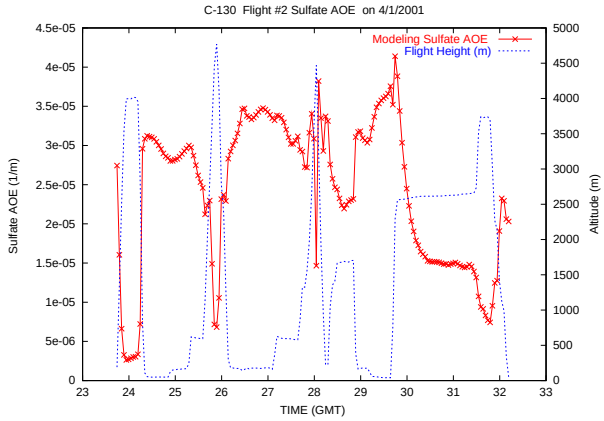

C-130 Flight #2 Sulfate on 4/1/2001
Observed Sulfate
Modeling Sulfate
CFORS Sulfate
Flight Height (m)
Sulfate (ug/std m3)
Altitude (m)
TIME (GMT)

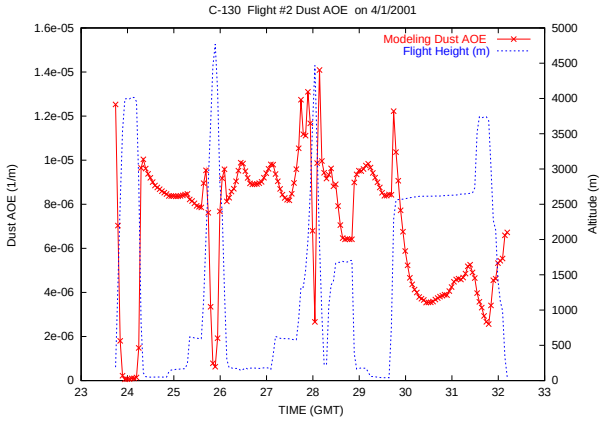

C-130 Flight #2 Fine Dust on 4/1/2001
Modeling Fine Dust
CFORS Fine Dust
Flight Height (m)
Fine Dust (ug/std m3)
Altitude (m)
TIME (GMT)

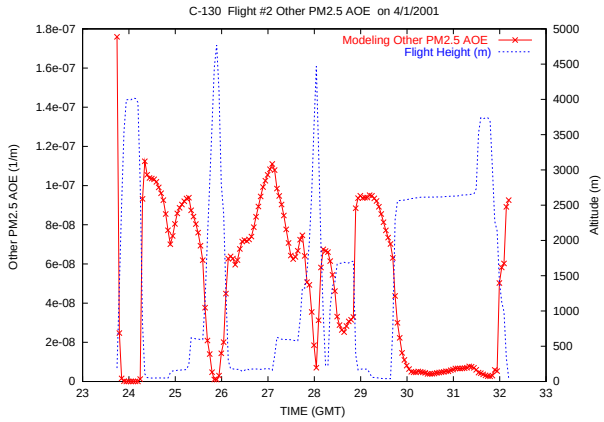

C-130 Flight #2 Coarse Dust on 4/1/2001
Modeling Coarse Dust
CFORS Coarse Dust
Flight Height (m)
Coarse Dust (ug/std m3)
Altitude (m)
TIME (GMT)

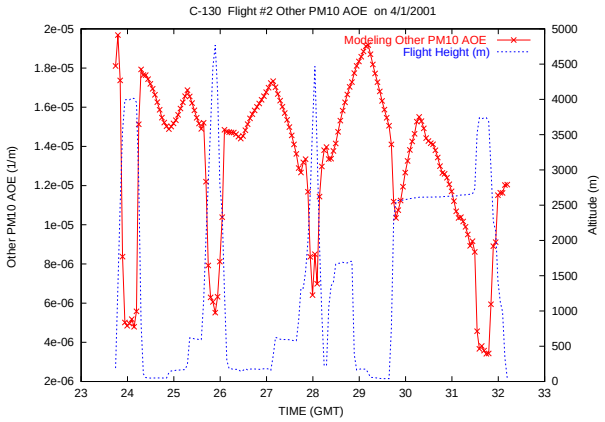

C-130 Flight #2 BC AOE on 4/1/2001
Modeling BC AOE
Flight Height (m)
BC AOE (1/m)
Altitude (m)
TIME (GMT)

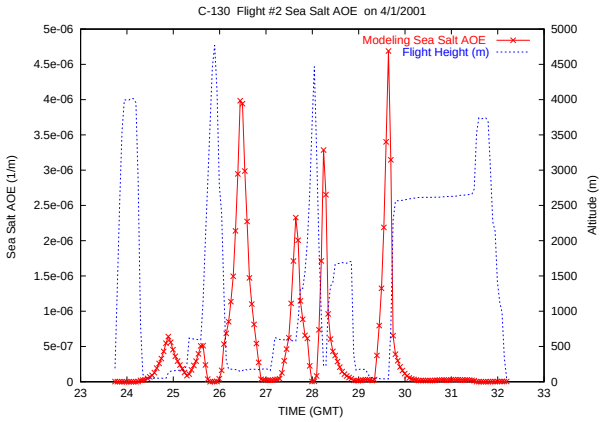

C-130 Flight #2 OC AOE on 4/1/2001
Modeling OC AOE
Flight Height (m)
OC AOE (1/m)
Altitude (m)
TIME (GMT)

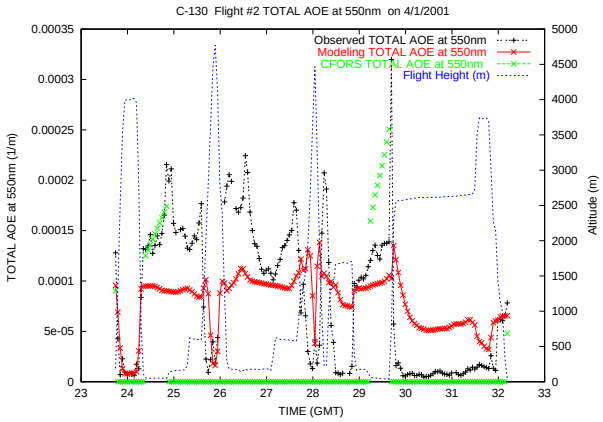

C-130 Flight #2 Sulfate AOE on 4/1/2001
Modeling Sulfate AOE
Flight Height (m)
Sulfate AOE (1/m)
Altitude (m)
TIME (GMT)


C-130 Flight #2 Dust AOE on 4/1/2001
Modeling Dust AOE
Flight Height (m)
Dust AOE (1/m)
Altitude (m)
TIME (GMT)

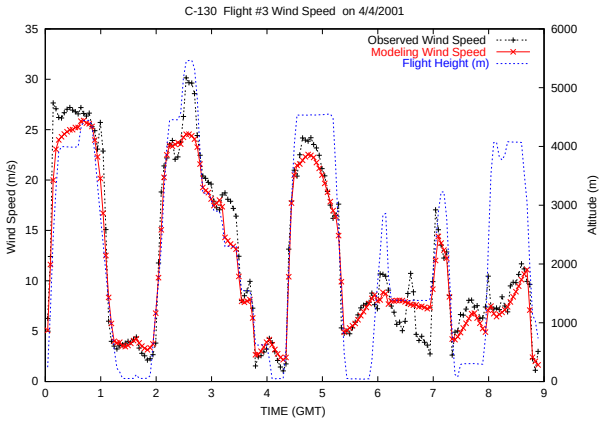

C-130 Flight #2 Other PM2.5 AOE on 4/1/2001
Modeling Other PM2.5 AOE
Flight Height (m)
Other PM2.5 AOE (1/m)
Altitude (m)
TIME (GMT)

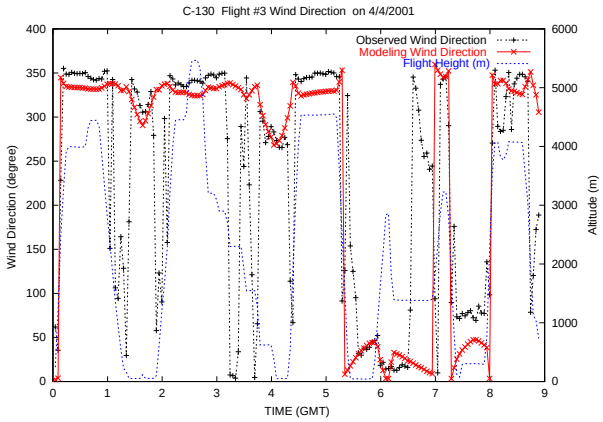

C-130 Flight #2 Other PM10 AOE on 4/1/2001
Modeling Other PM10 AOE
Flight Height (m)
Other PM10 AOE (1/m)
Altitude (m)
TIME (GMT)

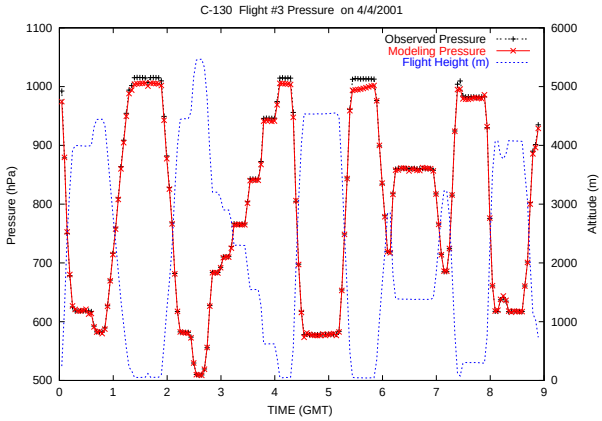

C-130 Flight #2 Sea Salt AOE on 4/1/2001
Modeling Sea Salt AOE
Flight Height (m)
Sea Salt AOE (1/m)
Altitude (m)
TIME (GMT)

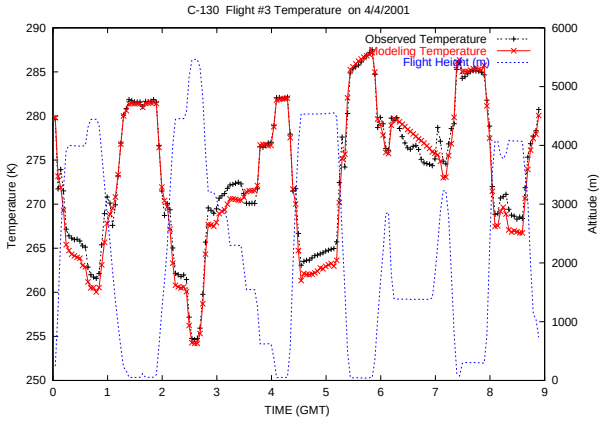

C-130 Flight #2 TOTAL AOE at 550nm on 4/1/2001
Observed TOTAL AOE at 550nm
Modeling TOTAL AOE at 550nm
CFORS TOTAL AOE at 550nm
Flight Height (m)
TOTAL AOE at 550nm (1/m)
Altitude (m)
TIME (GMT)

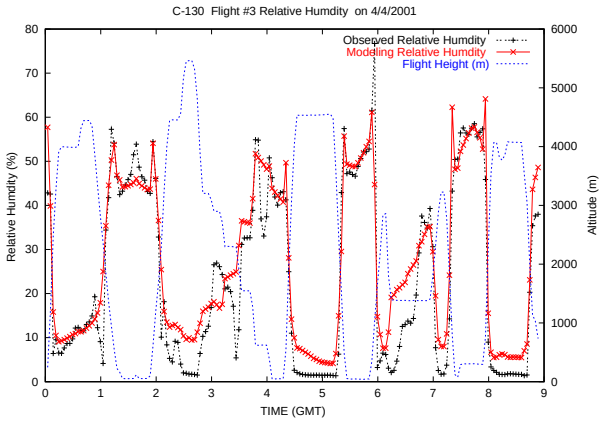
# ACE-ASIA C-130 Flight #3

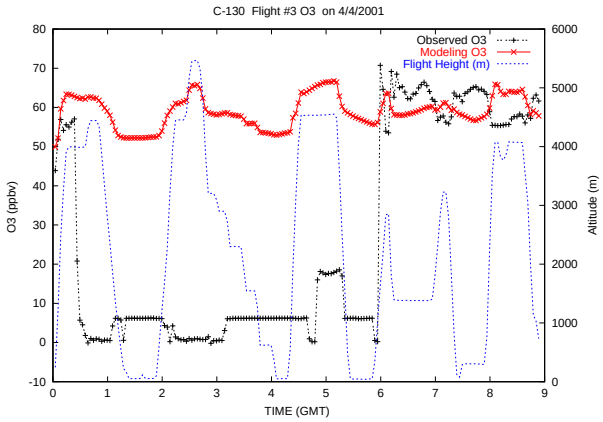


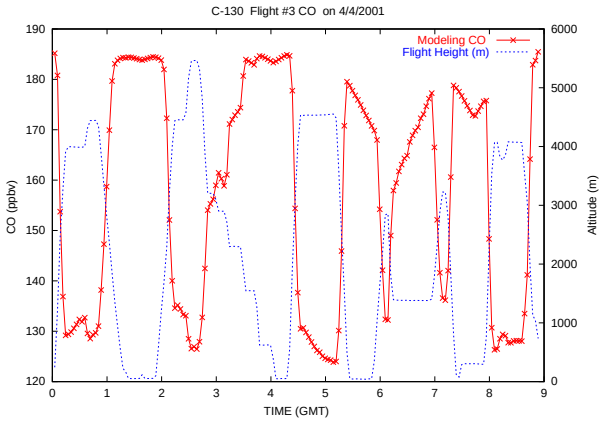



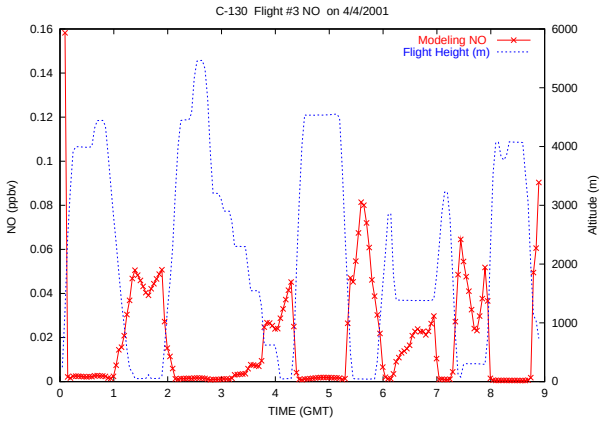



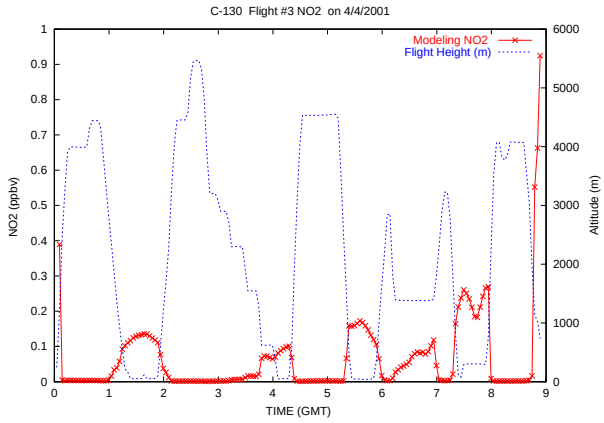



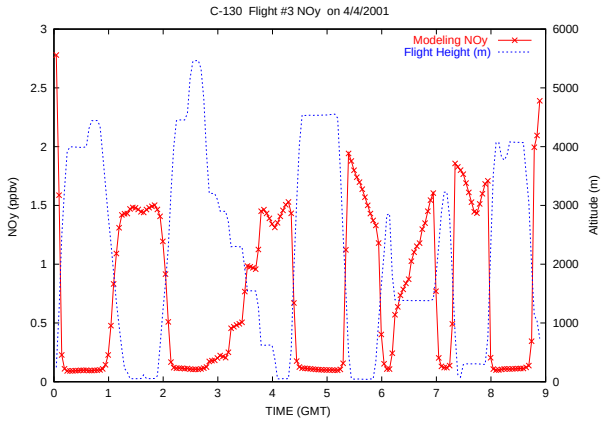



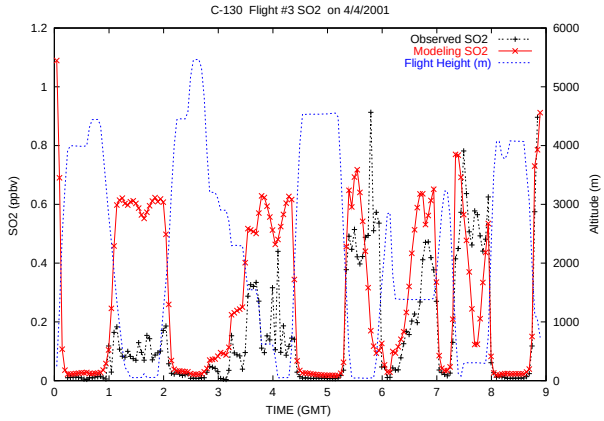



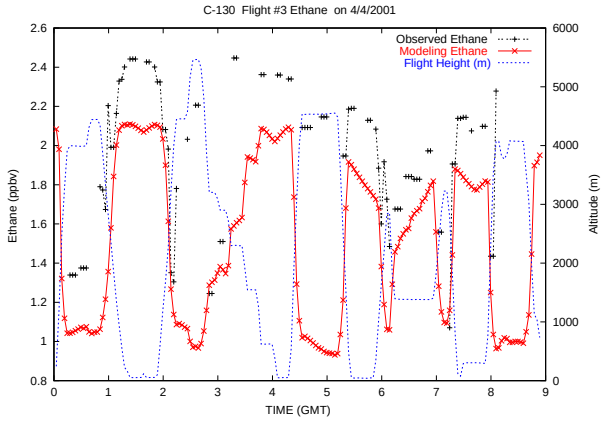



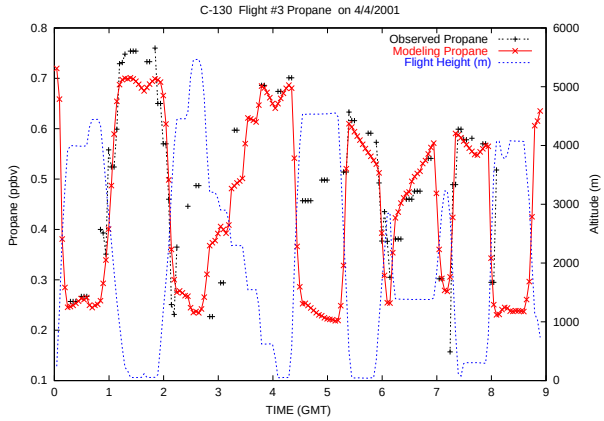



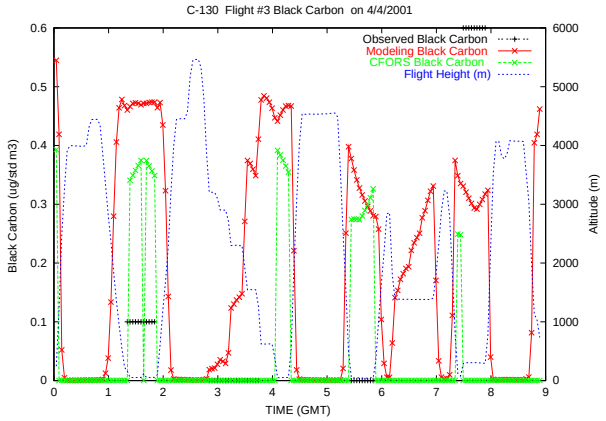

C-130 Flight #3 NO2 on 4/4/2001
Modeling NO2
Flight Height (m)
NO2 (ppbv)
Altitude (m)
TIME (GMT)

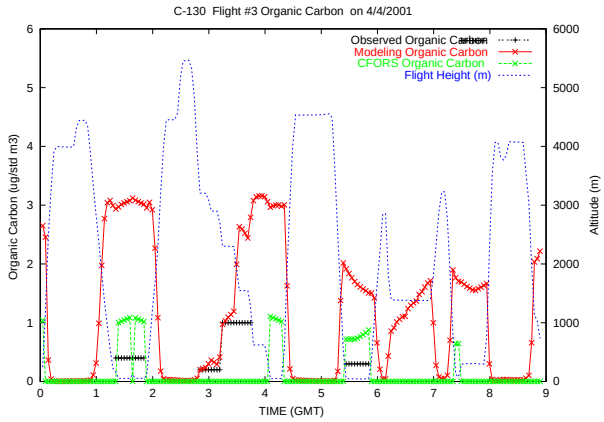

C-130 Flight #3 NOy on 4/4/2001
Modeling NOy
Flight Height (m)
NOy (ppbv)
Altitude (m)
TIME (GMT)

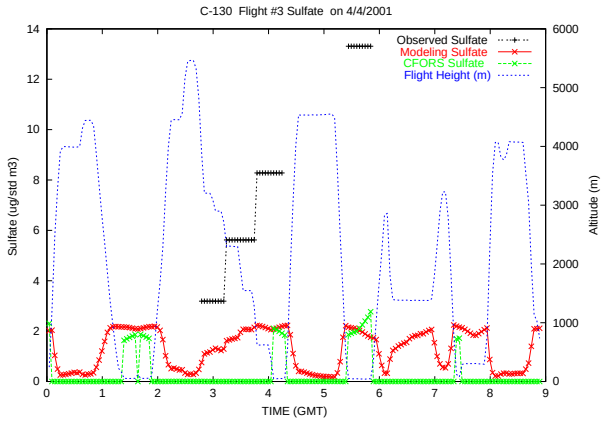

C-130 Flight #3 SO2 on 4/4/2001
Observed SO2
Modeling SO2
Flight Height (m)
SO2 (ppbv)
Altitude (m)
TIME (GMT)

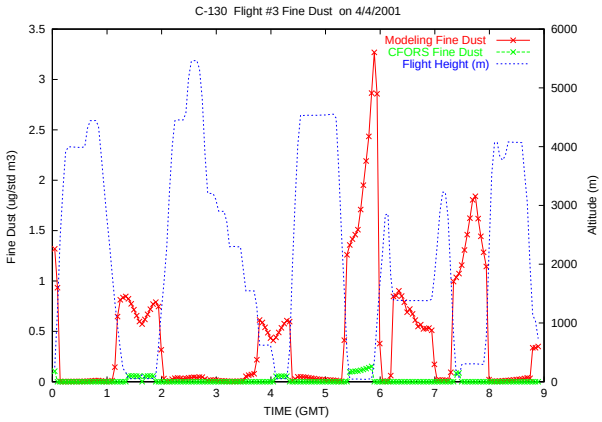

C-130 Flight #3 Ethane on 4/4/2001
Observed Ethane
Modeling Ethane
Flight Height (m)
Ethane (ppbv)
Altitude (m)
TIME (GMT)

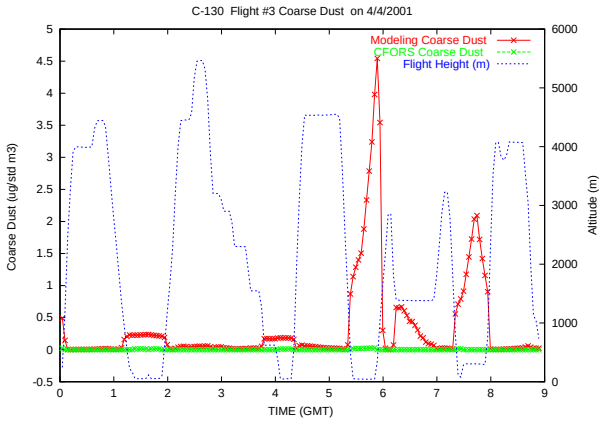

C-130 Flight #3 Propane on 4/4/2001
Observed Propane
Modeling Propane
Flight Height (m)
Propane (ppbv)
Altitude (m)
TIME (GMT)

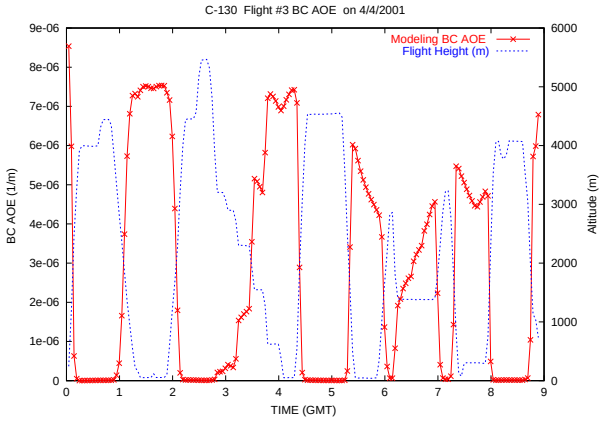

C-130 Flight #3 Black Carbon on 4/4/2001
Observed Black Carbon
Modeling Black Carbon
CFORS Black Carbon
Flight Height (m)
Black Carbon (ug/std m3)
Altitude (m)
TIME (GMT)

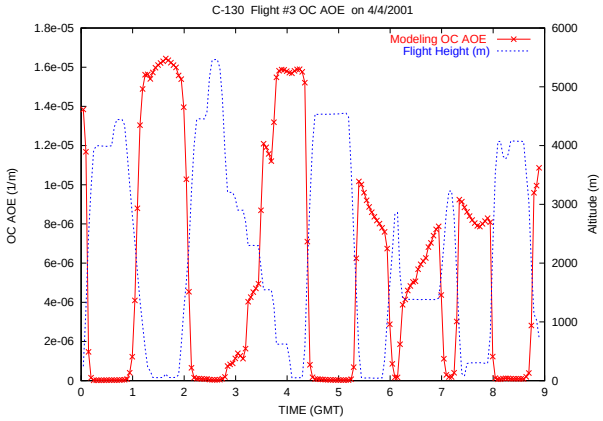

C-130 Flight #3 Organic Carbon on 4/4/2001
Observed Organic Carbon
Modeling Organic Carbon
CFORS Organic Carbon
Flight Height (m)
Organic Carbon (ug/std m3)
Altitude (m)
TIME (GMT)

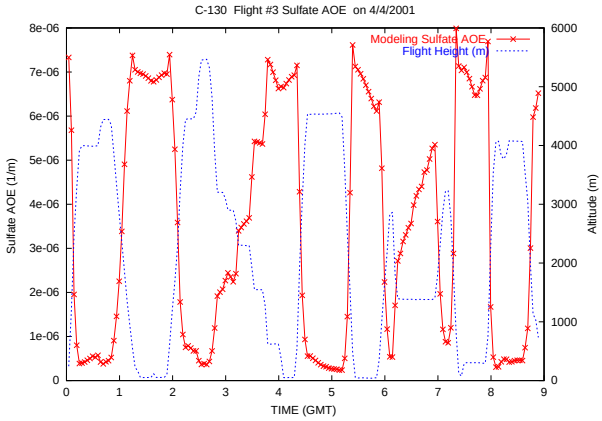

C-130 Flight #3 Sulfate on 4/4/2001
Observed Sulfate
Modeling Sulfate
CFORS Sulfate
Flight Height (m)
Sulfate (ug/std m3)
Altitude (m)
TIME (GMT)

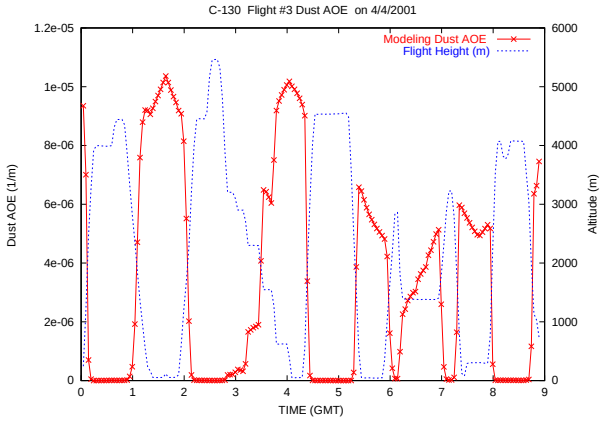

C-130 Flight #3 Fine Dust on 4/4/2001
Modeling Fine Dust
CFORS Fine Dust
Flight Height (m)
Fine Dust (ug/std m3)
Altitude (m)
TIME (GMT)

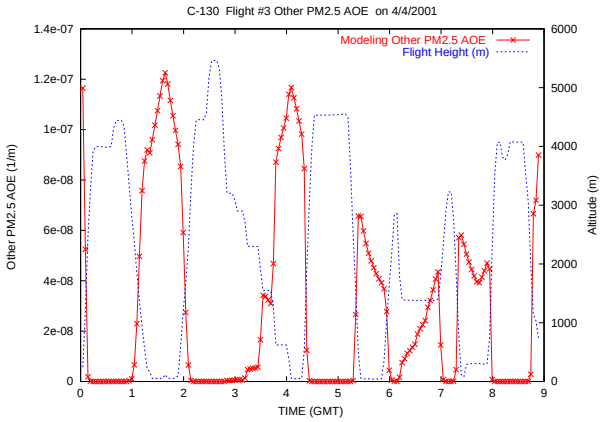

C-130 Flight #3 Coarse Dust on 4/4/2001
Modeling Coarse Dust
CFORS Coarse Dust
Flight Height (m)
Coarse Dust (ug/std m3)
Altitude (m)
TIME (GMT)

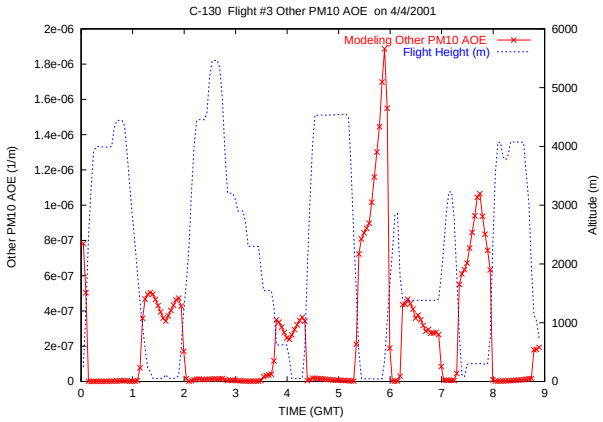

C-130 Flight #3 BC AOE on 4/4/2001
Modeling BC AOE
Flight Height (m)
BC AOE (1/m)
Altitude (m)
TIME (GMT)

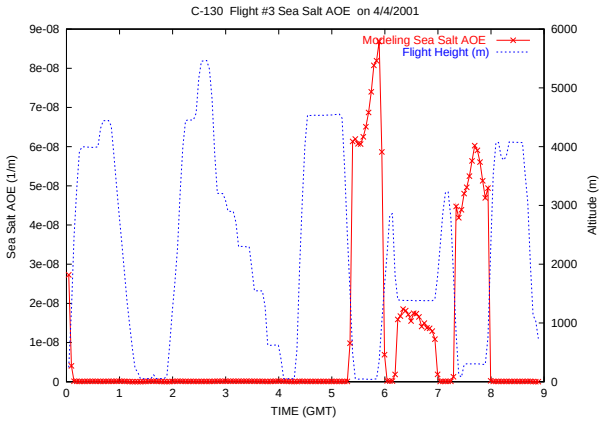

C-130 Flight #3 OC AOE on 4/4/2001
Modeling OC AOE
Flight Height (m)
OC AOE (1/m)
Altitude (m)
TIME (GMT)

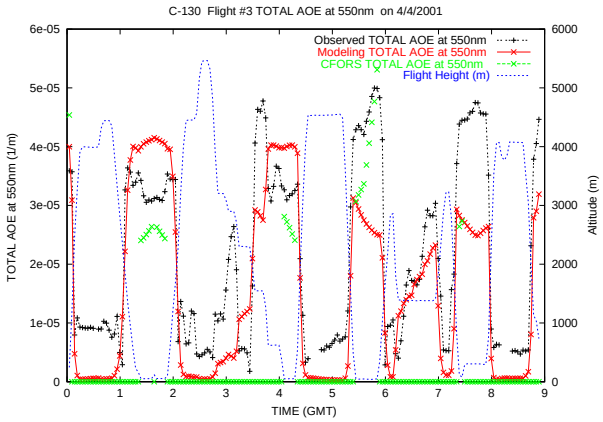

C-130 Flight #3 Sulfate AOE on 4/4/2001
Modeling Sulfate AOE
Flight Height (m)
Sulfate AOE (1/m)
Altitude (m)
TIME (GMT)

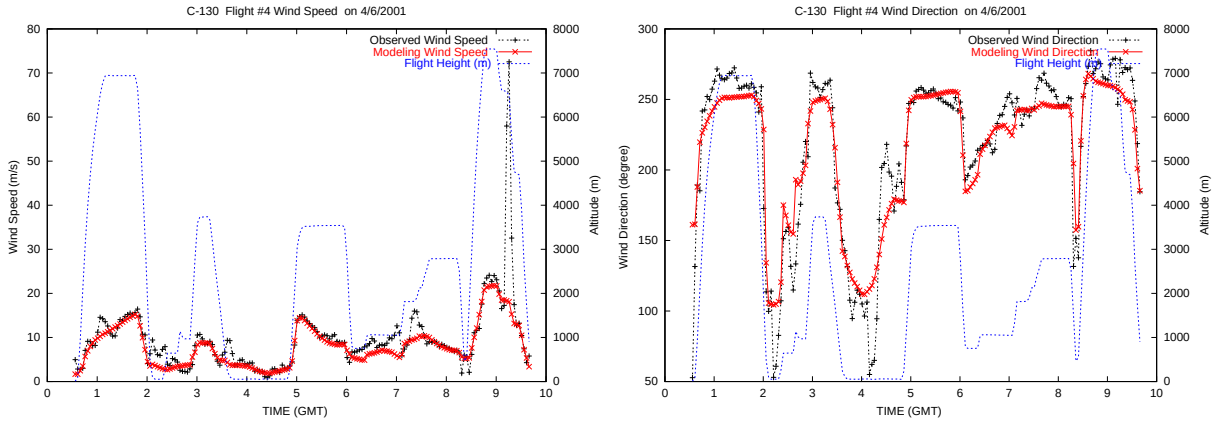

C-130 Flight #3 Dust AOE on 4/4/2001
Modeling Dust AOE
Flight Height (m)
Dust AOE (1/m)
Altitude (m)
TIME (GMT)


C-130 Flight #3 Other PM2.5 AOE on 4/4/2001
Modeling Other PM2.5 AOE
Flight Height (m)
Other PM2.5 AOE (1/m)
Altitude (m)
TIME (GMT)

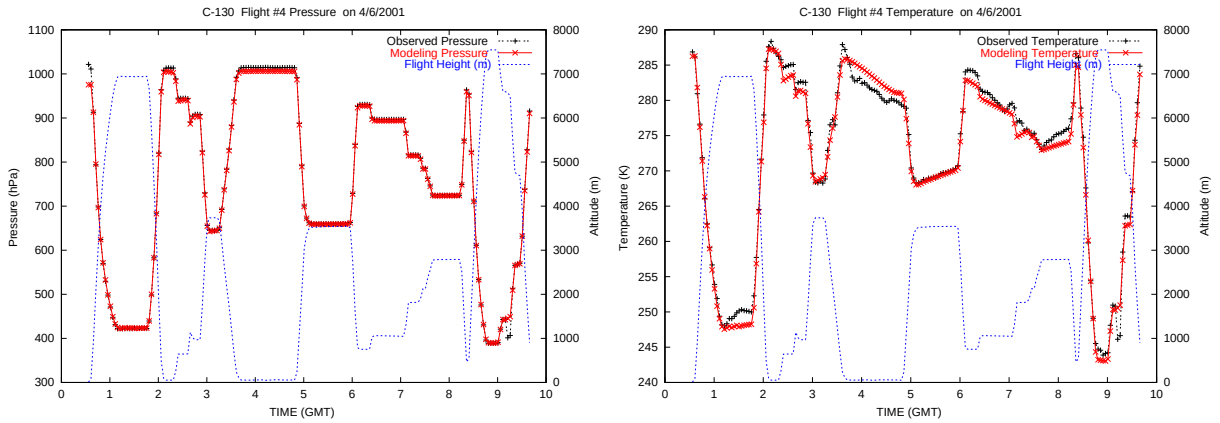

C-130 Flight #3 Other PM10 AOE on 4/4/2001
Modeling Other PM10 AOE
Flight Height (m)
Other PM10 AOE (1/m)
Altitude (m)
TIME (GMT)


C-130 Flight #3 Sea Salt AOE on 4/4/2001
Modeling Sea Salt AOE
Flight Height (m)
Sea Salt AOE (1/m)
Altitude (m)
TIME (GMT)

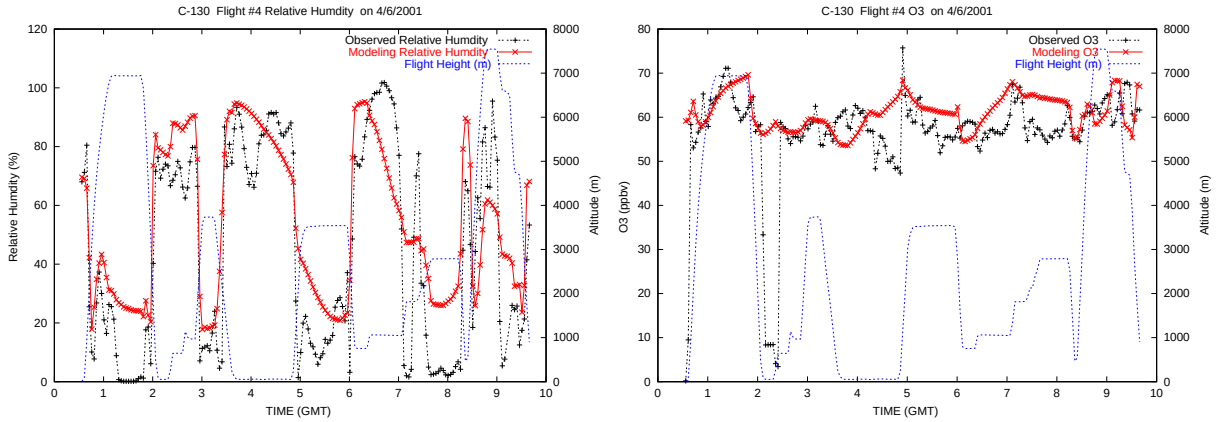

C-130 Flight #3 TOTAL AOE at 550nm on 4/4/2001
Observed TOTAL AOE at 550nm
Modeling TOTAL AOE at 550nm
CFORS TOTAL AOE at 550nm
Flight Height (m)
TOTAL AOE at 550nm (1/m)
Altitude (m)
TIME (GMT)


C-130 Flight #4 Wind Speed on 4/6/2001
Observed Wind Speed
Modeling Wind Speed
Flight Height (m)
Wind Speed (m/s)
Altitude (m)
TIME (GMT)

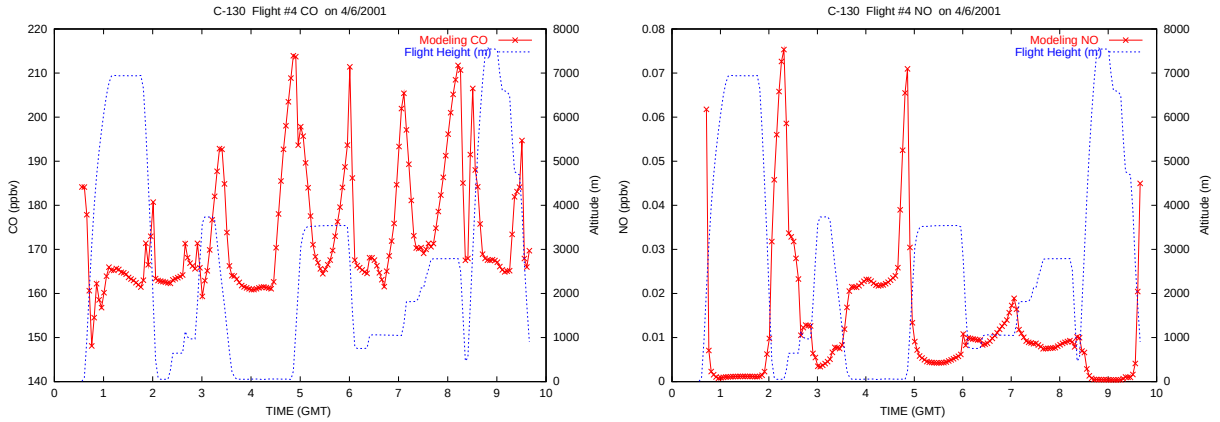

C-130 Flight #4 Wind Direction on 4/6/2001
Observed Wind Direction
Modeling Wind Direction
Flight Height (m)
Wind Direction (degree)
Altitude (m)
TIME (GMT)


C-130 Flight #4 Pressure on 4/6/2001
Observed Pressure
Modeling Pressure
Flight Height (m)
Pressure (hPa)
Altitude (m)
TIME (GMT)

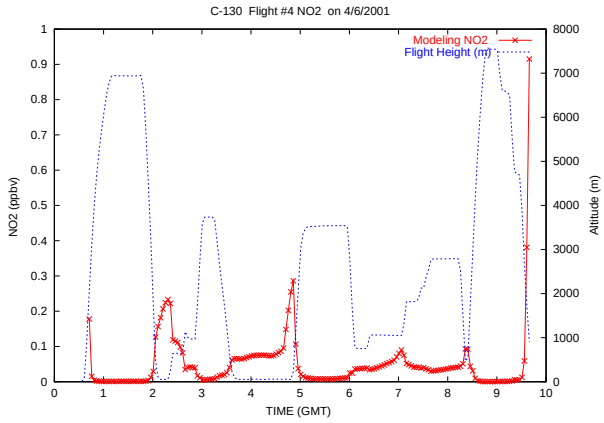

C-130 Flight #4 Temperature on 4/6/2001
Observed Temperature
Modeling Temperature
Flight Height (m)
Temperature (K)
Altitude (m)
TIME (GMT)

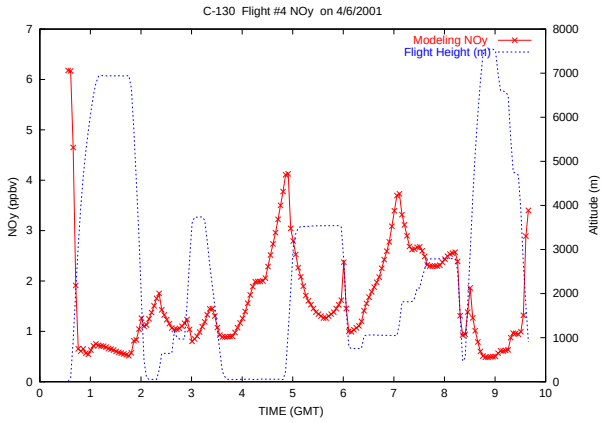

C-130 Flight #4 Relative Humdity on 4/6/2001
Observed Relative Humdity
Modeling Relative Humdity
Flight Height (m)
Relative Humdity (%)
Altitude (m)
TIME (GMT)

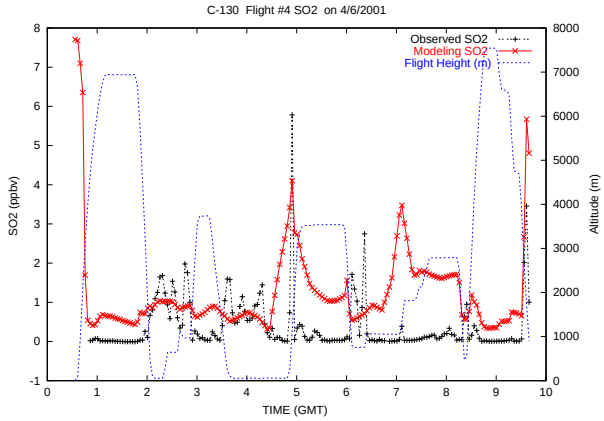

C-130 Flight #4 O3 on 4/6/2001
Observed O3
Modeling O3
Flight Height (m)
O3 (ppbv)
Altitude (m)
TIME (GMT)

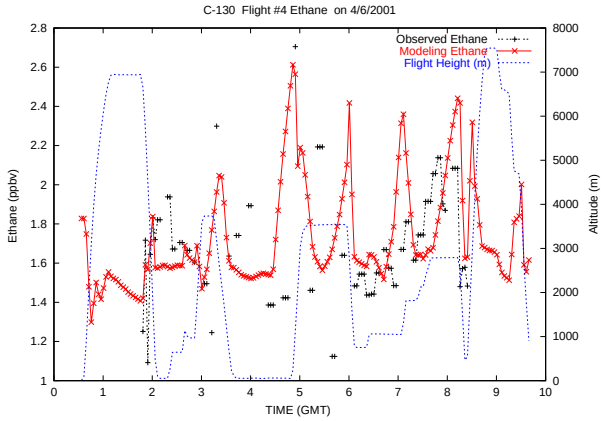

C-130 Flight #4 CO on 4/6/2001
Modeling CO
Flight Height (m)
CO (ppbv)
Altitude (m)
TIME (GMT)

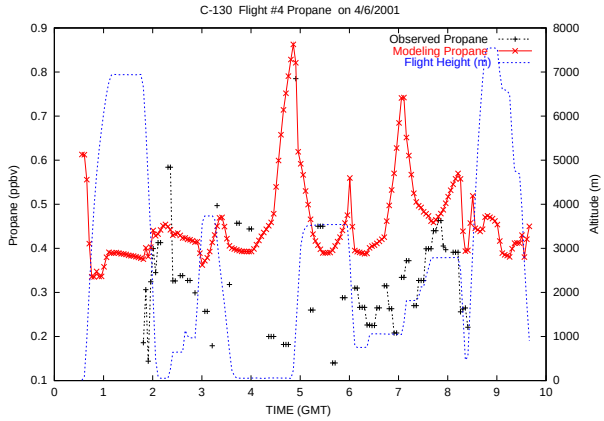

C-130 Flight #4 NO on 4/6/2001
Modeling NO
Flight Height (m)
NO (ppbv)
Altitude (m)
TIME (GMT)

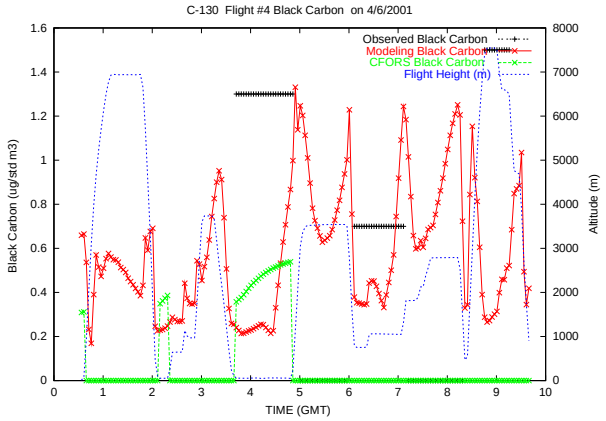

C-130 Flight #4 NO2 on 4/6/2001
Modeling NO2
Flight Height (m)
NO2 (ppbv)
Altitude (m)
TIME (GMT)

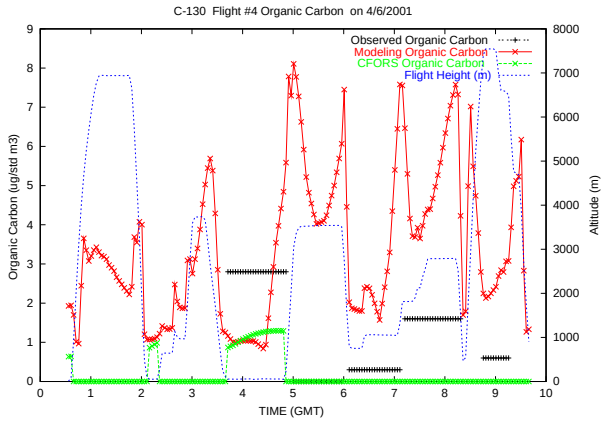

C-130 Flight #4 NOy on 4/6/2001
Modeling NOy
Flight Height (m)
NOy (ppbv)
Altitude (m)
TIME (GMT)

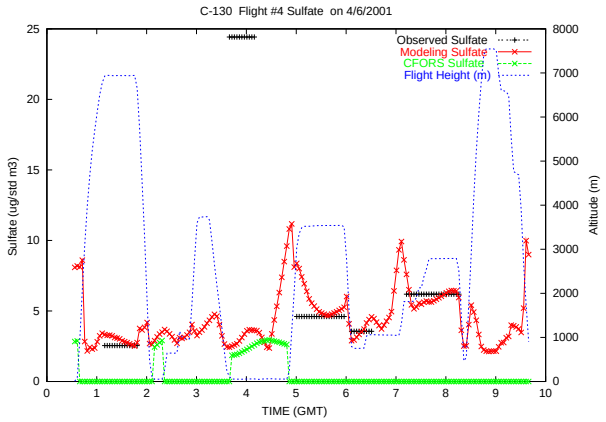

C-130 Flight #4 SO2 on 4/6/2001
Observed SO2
Modeling SO2
Flight Height (m)
SO2 (ppbv)
Altitude (m)
TIME (GMT)

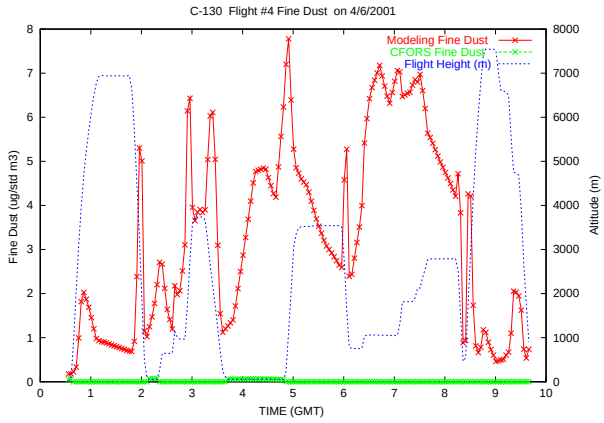

C-130 Flight #4 Ethane on 4/6/2001
Observed Ethane
Modeling Ethane
Flight Height (m)
Ethane (ppbv)
Altitude (m)
TIME (GMT)

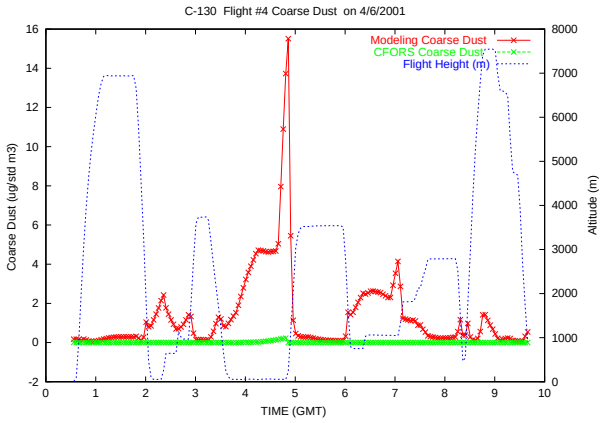

C-130 Flight #4 Propane on 4/6/2001
Observed Propane
Modeling Propane
Flight Height (m)
Propane (ppbv)
Altitude (m)
TIME (GMT)

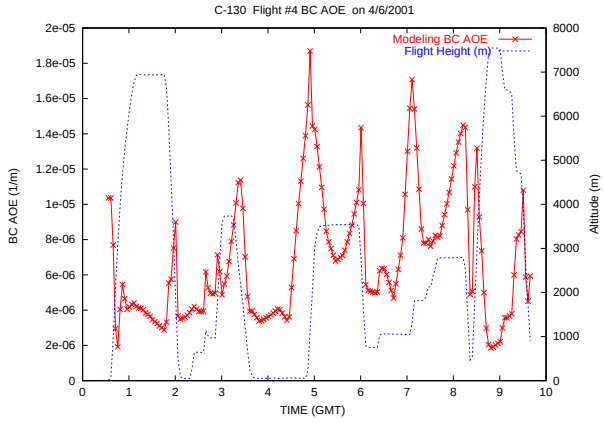

C-130 Flight #4 Black Carbon on 4/6/2001
Observed Black Carbon
Modeling Black Carbon
CFORS Black Carbon
Flight Height (m)
Black Carbon (ug/std m3)
Altitude (m)
TIME (GMT)

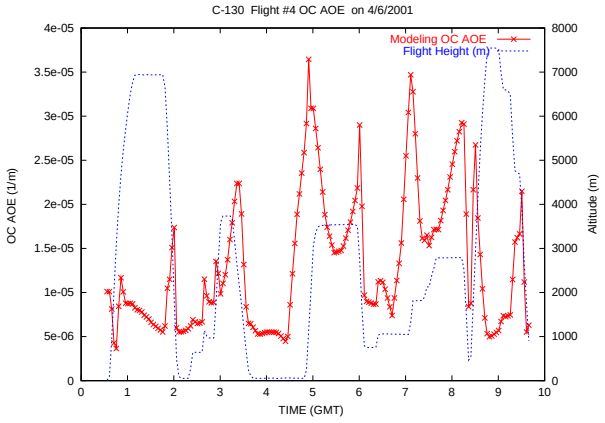

C-130 Flight #4 Organic Carbon on 4/6/2001
Observed Organic Carbon
Modeling Organic Carbon
CFORS Organic Carbon
Flight Height (m)
Organic Carbon (ug/std m3)
Altitude (m)
TIME (GMT)

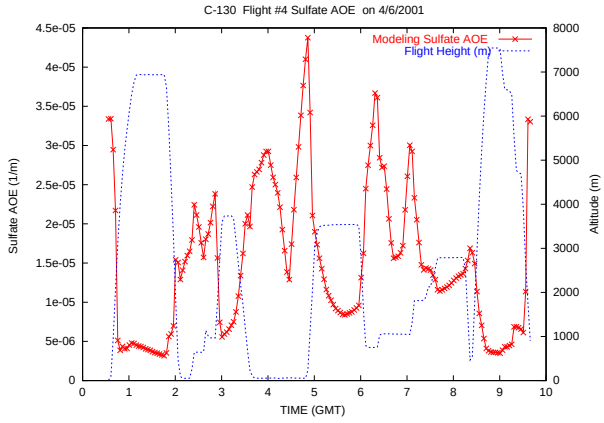

C-130 Flight #4 Sulfate on 4/6/2001
Observed Sulfate
Modeling Sulfate
CFORS Sulfate
Flight Height (m)
Sulfate (ug/std m3)
Altitude (m)
TIME (GMT)

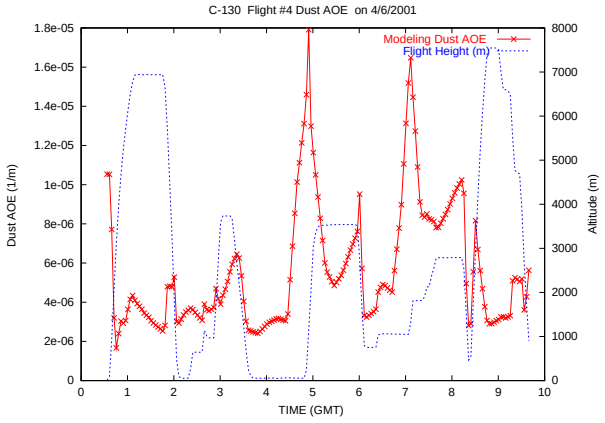

C-130 Flight #4 Fine Dust on 4/6/2001
Modeling Fine Dust
CFORS Fine Dust
Flight Height (m)
Fine Dust (ug/std m3)
Altitude (m)
TIME (GMT)

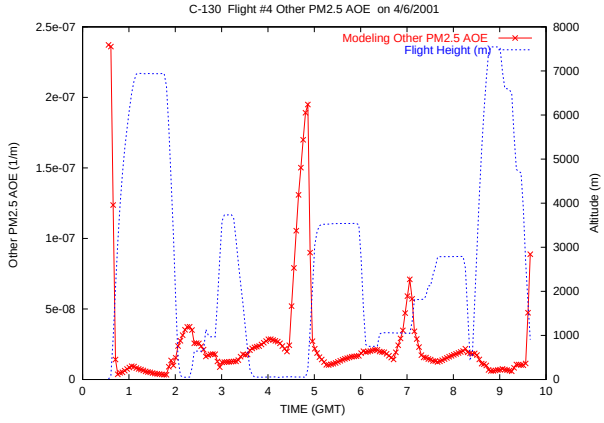

C-130 Flight #4 Coarse Dust on 4/6/2001
Modeling Coarse Dust
CFORS Coarse Dust
Flight Height (m)
Coarse Dust (ug/std m3)
Altitude (m)
TIME (GMT)

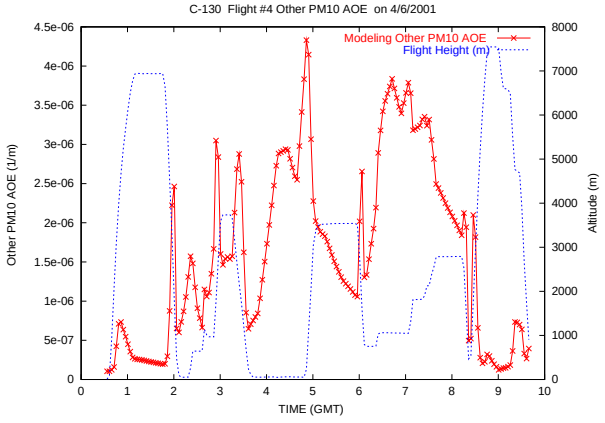

C-130 Flight #4 BC AOE on 4/6/2001
Modeling BC AOE
Flight Height (m)
BC AOE (1/m)
Altitude (m)
TIME (GMT)

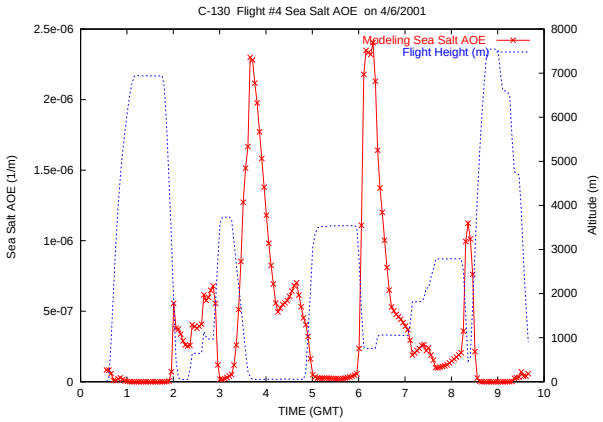

C-130 Flight #4 OC AOE on 4/6/2001
Modeling OC AOE
Flight Height (m)
OC AOE (1/m)
Altitude (m)
TIME (GMT)

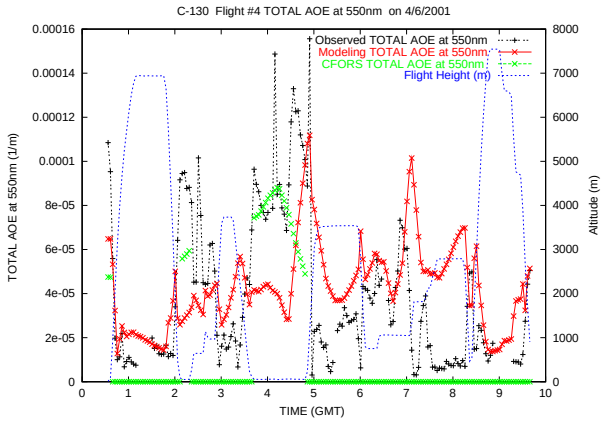

C-130 Flight #4 Sulfate AOE on 4/6/2001
Modeling Sulfate AOE
Flight Height (m)
Sulfate AOE (1/m)
Altitude (m)
TIME (GMT)

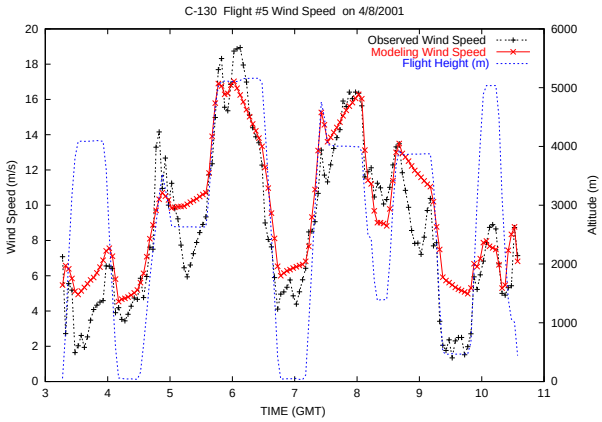

C-130 Flight #4 Dust AOE on 4/6/2001
Modeling Dust AOE
Flight Height (m)
Dust AOE (1/m)
Altitude (m)
TIME (GMT)

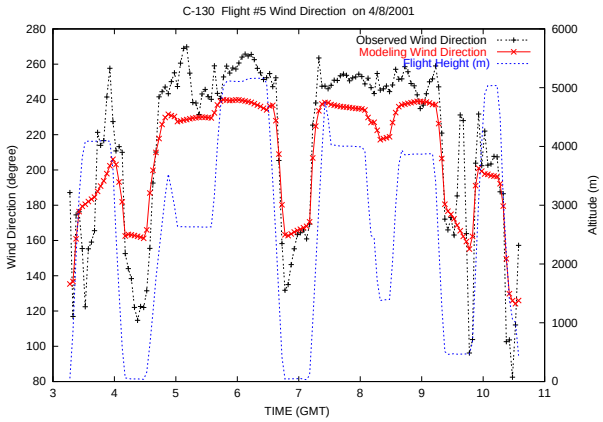

C-130 Flight #4 Other PM2.5 AOE on 4/6/2001
Modeling Other PM2.5 AOE
Flight Height (m)
Other PM2.5 AOE (1/m)
Altitude (m)
TIME (GMT)

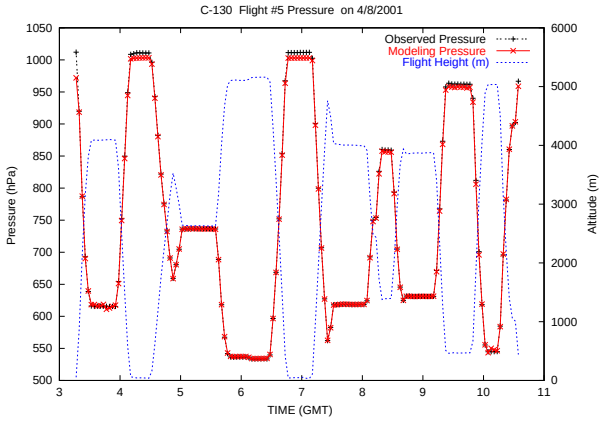

C-130 Flight #4 Other PM10 AOE on 4/6/2001
Modeling Other PM10 AOE
Flight Height (m)
Other PM10 AOE (1/m)
Altitude (m)
TIME (GMT)

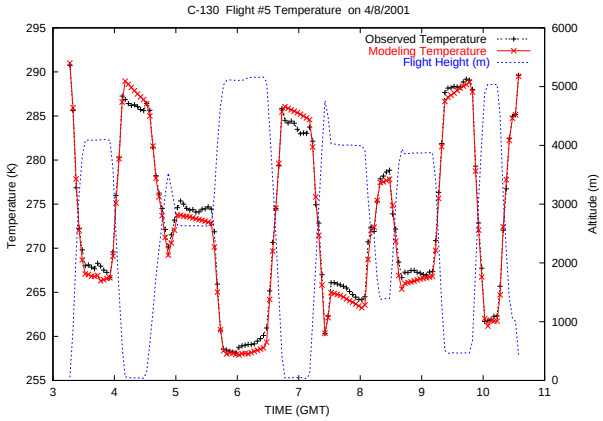

C-130 Flight #4 Sea Salt AOE on 4/6/2001
Modeling Sea Salt AOE
Flight Height (m)
Sea Salt AOE (1/m)
Altitude (m)
TIME (GMT)

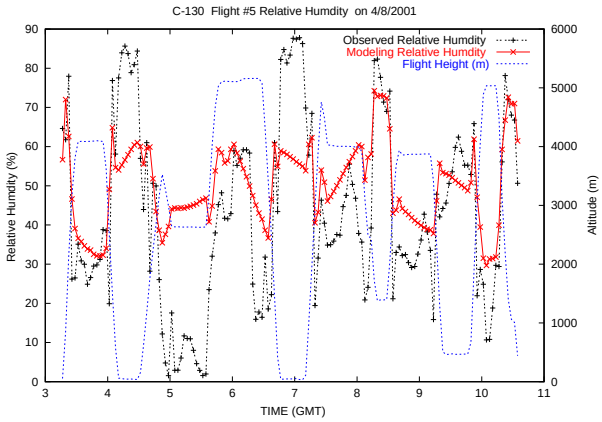

C-130 Flight #4 TOTAL AOE at 550nm on 4/6/2001
Observed TOTAL AOE at 550nm
Modeling TOTAL AOE at 550nm
CFORS TOTAL AOE at 550nm
Flight Height (m)
TOTAL AOE at 550nm (1/m)
Altitude (m)
TIME (GMT)

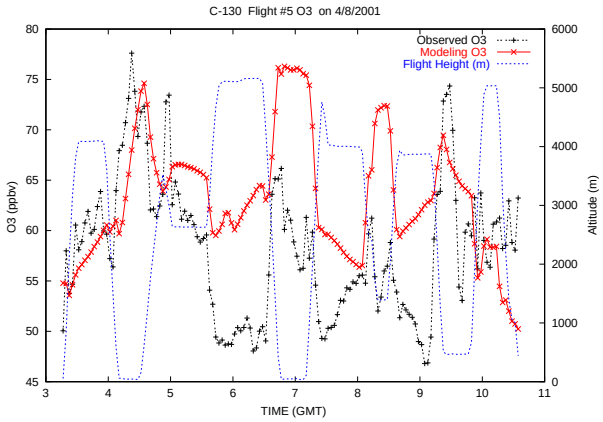

C-130 Flight #5 Wind Speed on 4/8/2001
Observed Wind Speed
Modeling Wind Speed
Flight Height (m)
Wind Speed (m/s)
Altitude (m)
TIME (GMT)

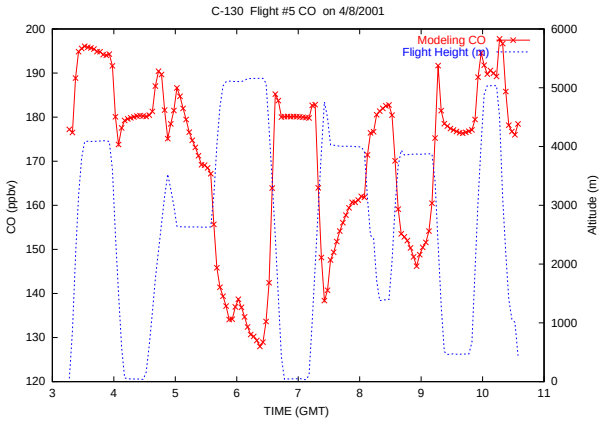

C-130 Flight #5 Wind Direction on 4/8/2001
Observed Wind Direction
Modeling Wind Direction
Flight Height (m)
Wind Direction (degree)
Altitude (m)
TIME (GMT)

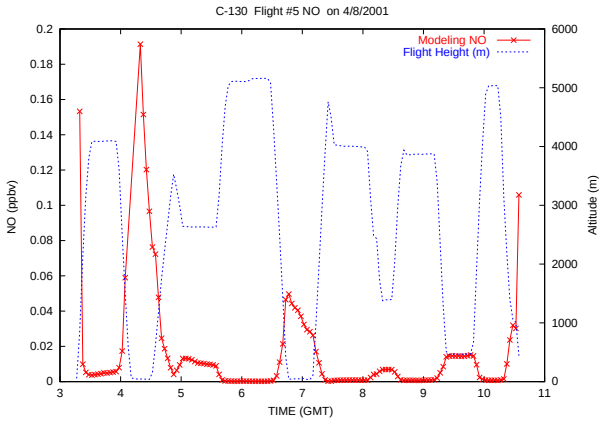

C-130 Flight #5 Pressure on 4/8/2001
Observed Pressure
Modeling Pressure
Flight Height (m)
Pressure (hPa)
Altitude (m)
TIME (GMT)

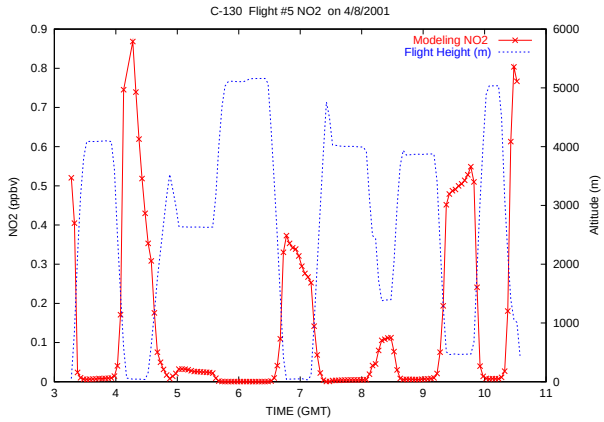

C-130 Flight #5 Temperature on 4/8/2001
Observed Temperature
Modeling Temperature
Flight Height (m)
Temperature (K)
Altitude (m)
TIME (GMT)

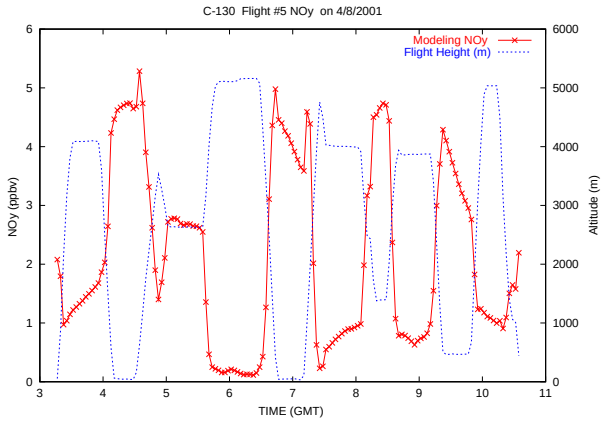

C-130 Flight #5 Relative Humdity on 4/8/2001
Observed Relative Humdity
Modeling Relative Humdity
Flight Height (m)
Relative Humdity (%)
Altitude (m)
TIME (GMT)

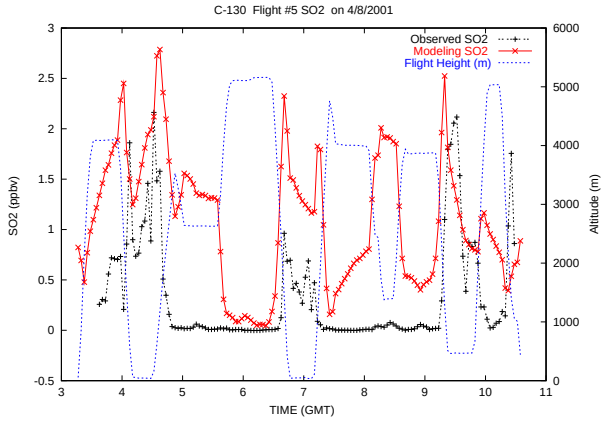

C-130 Flight #5 O3 on 4/8/2001
Observed O3
Modeling O3
Flight Height (m)
O3 (ppbv)
Altitude (m)
TIME (GMT)

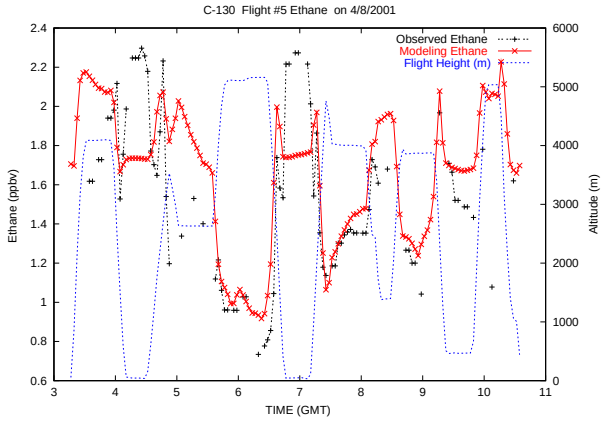

C-130 Flight #5 CO on 4/8/2001
Modeling CO
Flight Height (m)
CO (ppbv)
Altitude (m)
TIME (GMT)

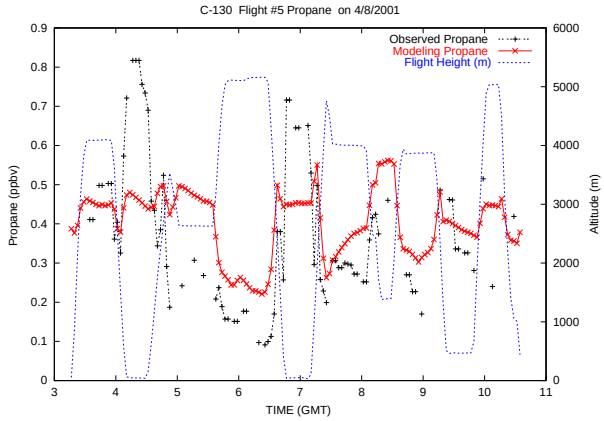

C-130 Flight #5 NO on 4/8/2001
Modeling NO
Flight Height (m)
NO (ppbv)
Altitude (m)
TIME (GMT)

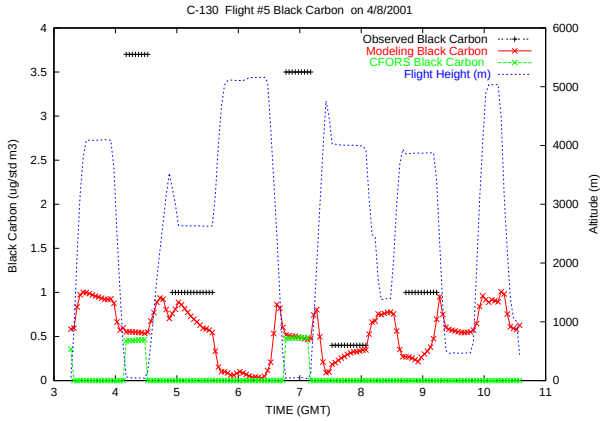

C-130 Flight #5 NO2 on 4/8/2001
Modeling NO2
Flight Height (m)
NO2 (ppbv)
Altitude (m)
TIME (GMT)

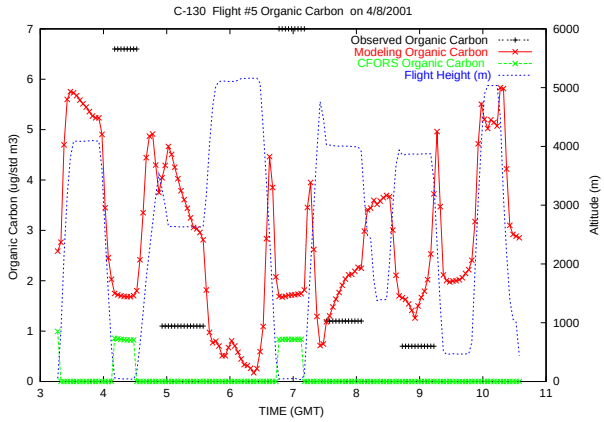

C-130 Flight #5 NOy on 4/8/2001
Modeling NOy
Flight Height (m)
NOy (ppbv)
Altitude (m)
TIME (GMT)

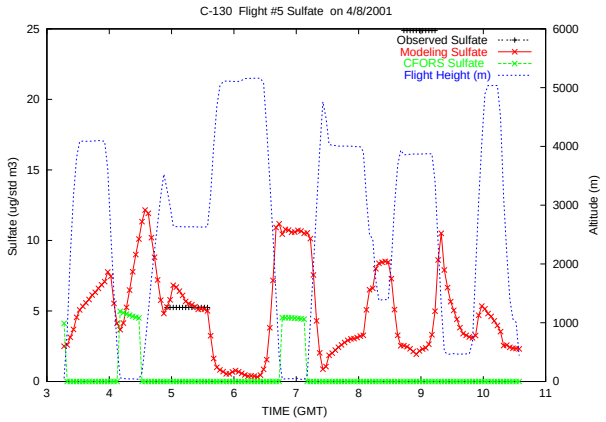

C-130 Flight #5 SO2 on 4/8/2001
Observed SO2
Modeling SO2
Flight Height (m)
SO2 (ppbv)
Altitude (m)
TIME (GMT)

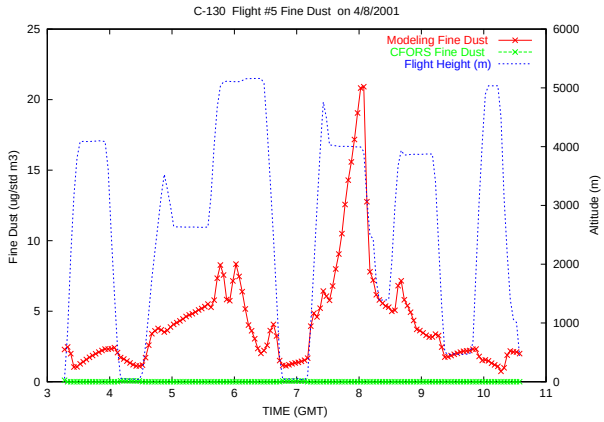

C-130 Flight #5 Ethane on 4/8/2001
Observed Ethane
Modeling Ethane
Flight Height (m)
Ethane (ppbv)
Altitude (m)
TIME (GMT)

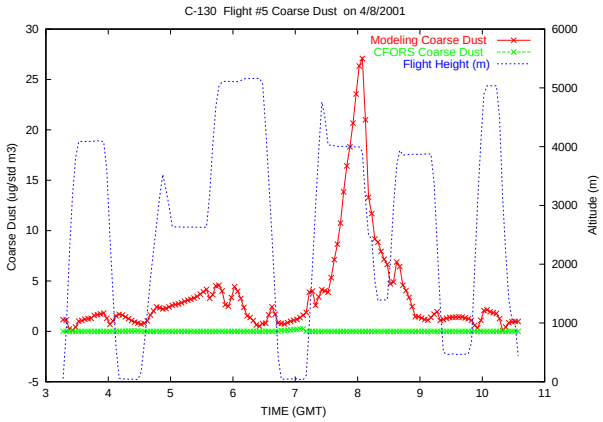

C-130 Flight #5 Propane on 4/8/2001
Observed Propane
Modeling Propane
Flight Height (m)
Propane (ppbv)
Altitude (m)
TIME (GMT)

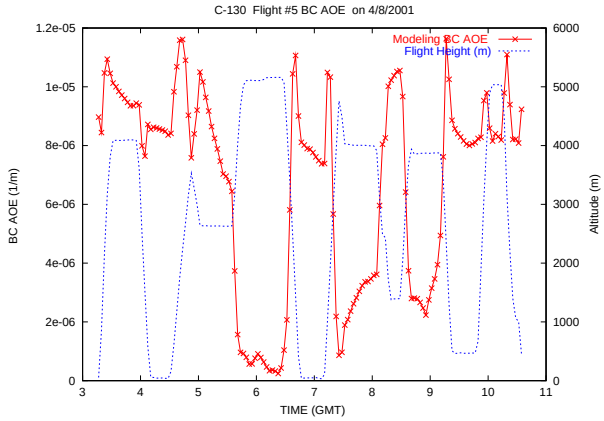

C-130 Flight #5 Black Carbon on 4/8/2001
Observed Black Carbon
Modeling Black Carbon
CFORS Black Carbon
Flight Height (m)
Black Carbon (ug/std m3)
Altitude (m)
TIME (GMT)

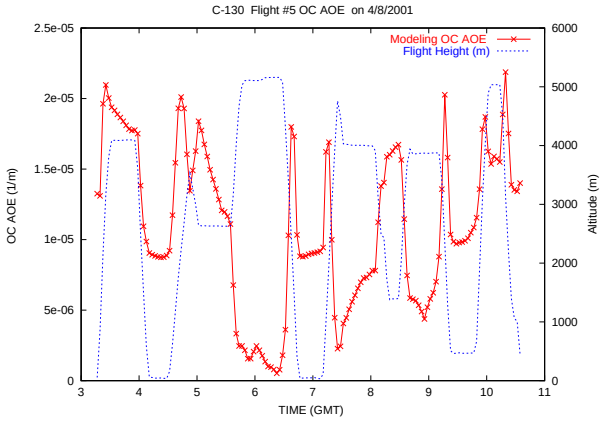

C-130 Flight #5 Organic Carbon on 4/8/2001
Observed Organic Carbon
Modeling Organic Carbon
CFORS Organic Carbon
Flight Height (m)
Organic Carbon (ug/std m3)
Altitude (m)
TIME (GMT)

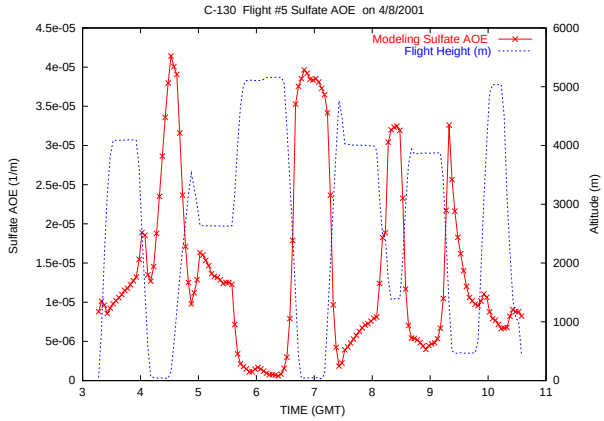

C-130 Flight #5 Sulfate on 4/8/2001
Observed Sulfate
Modeling Sulfate
CFORS Sulfate
Flight Height (m)
Sulfate (ug/std m3)
Altitude (m)
TIME (GMT)

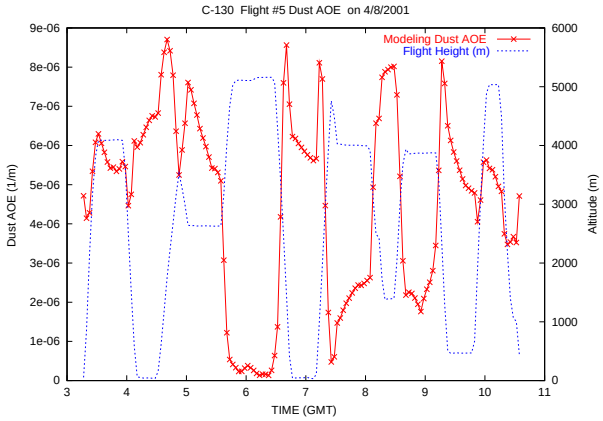

C-130 Flight #5 Fine Dust on 4/8/2001
Modeling Fine Dust
CFORS Fine Dust
Flight Height (m)
Fine Dust (ug/std m3)
Altitude (m)
TIME (GMT)

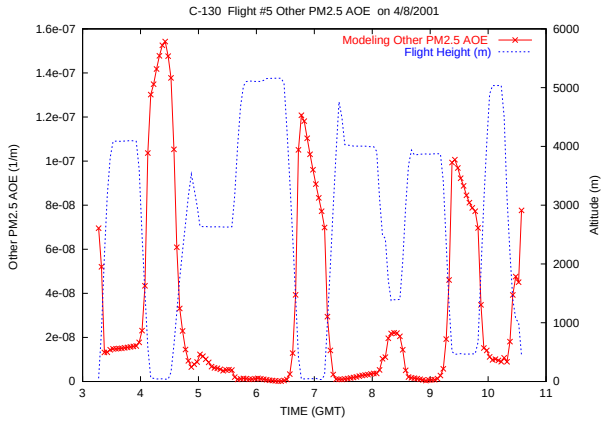

C-130 Flight #5 Coarse Dust on 4/8/2001
Modeling Coarse Dust
CFORS Coarse Dust
Flight Height (m)
Coarse Dust (ug/std m3)
Altitude (m)
TIME (GMT)

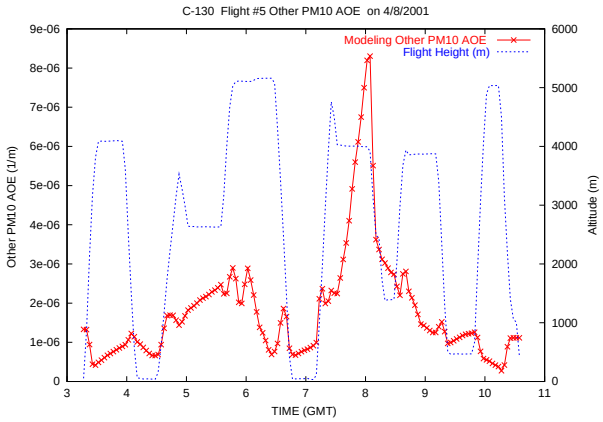

C-130 Flight #5 BC AOE on 4/8/2001
Modeling BC AOE
Flight Height (m)
BC AOE (1/m)
Altitude (m)
TIME (GMT)

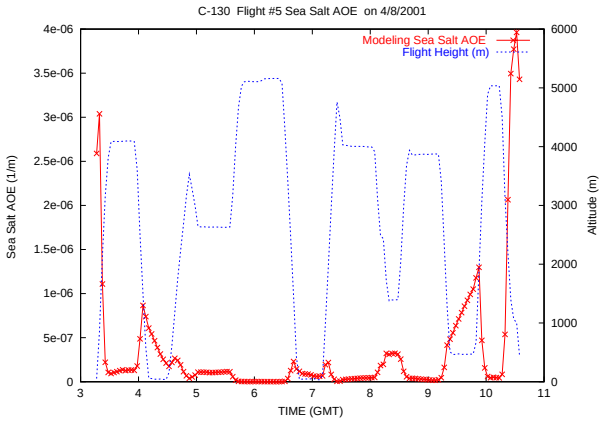

C-130 Flight #5 OC AOE on 4/8/2001
Modeling OC AOE
Flight Height (m)
OC AOE (1/m)
Altitude (m)
TIME (GMT)

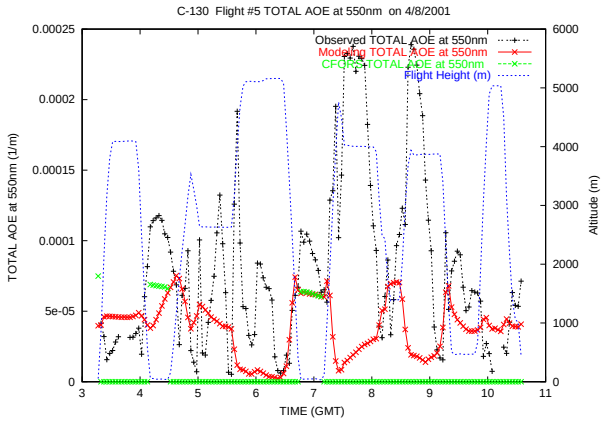

C-130 Flight #5 Sulfate AOE on 4/8/2001
Modeling Sulfate AOE
Flight Height (m)
Sulfate AOE (1/m)
Altitude (m)
TIME (GMT)

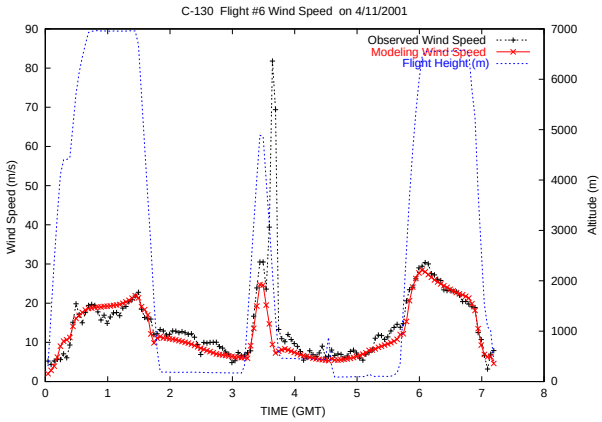

C-130 Flight #5 Dust AOE on 4/8/2001
Modeling Dust AOE
Flight Height (m)
Dust AOE (1/m)
Altitude (m)
TIME (GMT)

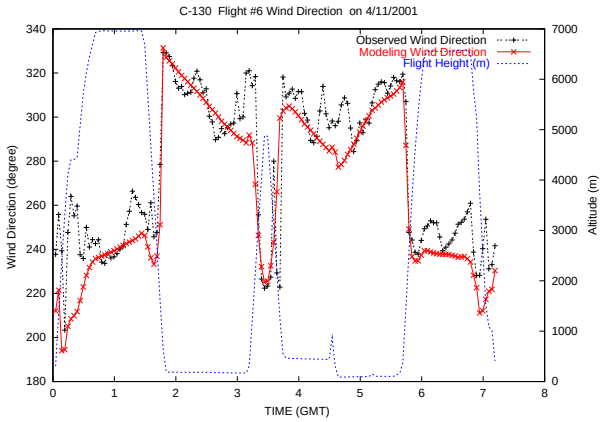

C-130 Flight #5 Other PM2.5 AOE on 4/8/2001
Modeling Other PM2.5 AOE
Flight Height (m)
Other PM2.5 AOE (1/m)
Altitude (m)
TIME (GMT)

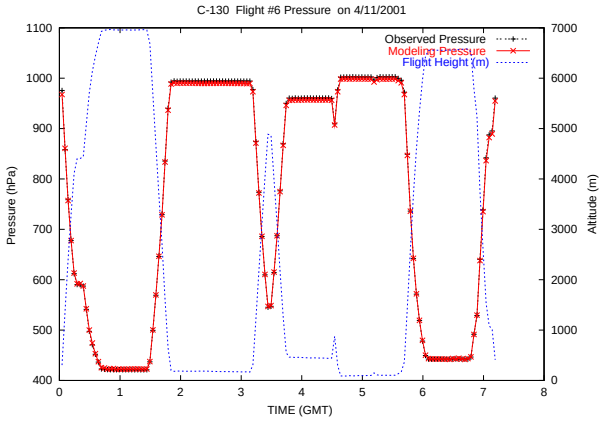

C-130 Flight #5 Other PM10 AOE on 4/8/2001
Modeling Other PM10 AOE
Flight Height (m)
Other PM10 AOE (1/m)
Altitude (m)
TIME (GMT)

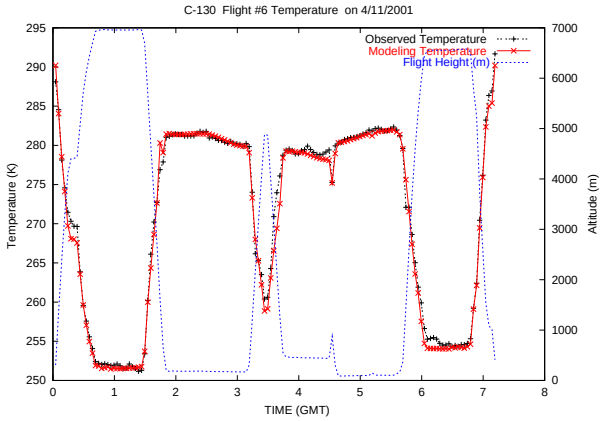

C-130 Flight #5 Sea Salt AOE on 4/8/2001
Modeling Sea Salt AOE
Flight Height (m)
Sea Salt AOE (1/m)
Altitude (m)
TIME (GMT)
4e-06
3.5e-06
3e-06
2.5e-06
2e-06
1.5e-06
1e-06
5e-07
0
6000
5000
4000
3000
2000
1000
0
3
4
5
6
7
8
9
10
11

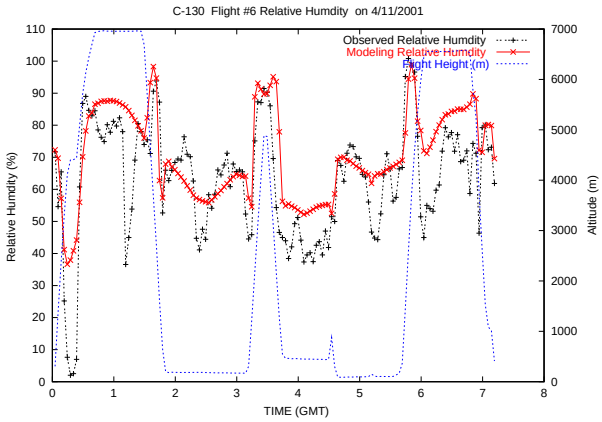

C-130 Flight #5 TOTAL AOE at 550nm on 4/8/2001
Observed TOTAL AOE at 550nm
Modeled TOTAL AOE at 550nm
CFORS TOTAL AOE at 550nm
Flight Height (m)
TOTAL AOE at 550nm (1/m)
Altitude (m)
TIME (GMT)
0.00025
0.0002
0.00015
0.0001
5e-05
0
6000
5000
4000
3000
2000
1000
0
3
4
5
6
7
8
9
10
11

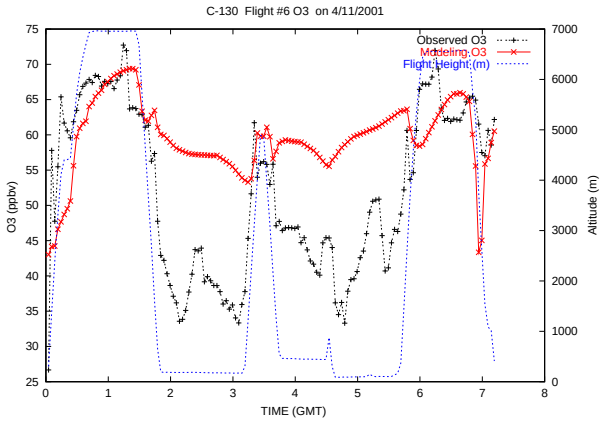

C-130 Flight #6 Wind Speed on 4/11/2001
Observed Wind Speed
Modeling Wind Speed
Flight Height (m)
Wind Speed (m/s)
Altitude (m)
TIME (GMT)

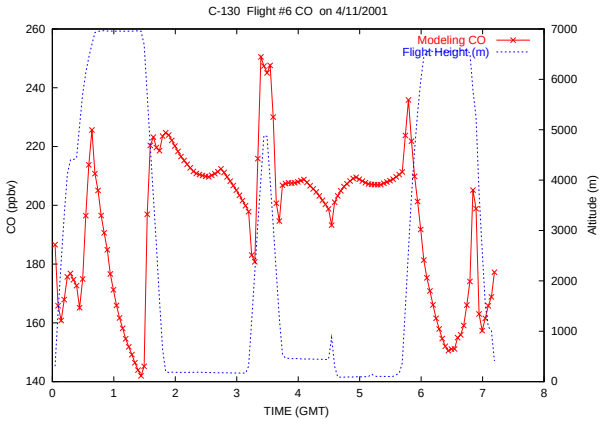

C-130 Flight #6 Wind Direction on 4/11/2001
Observed Wind Direction
Modeling Wind Direction
Flight Height (m)
Wind Direction (degree)
Altitude (m)
TIME (GMT)

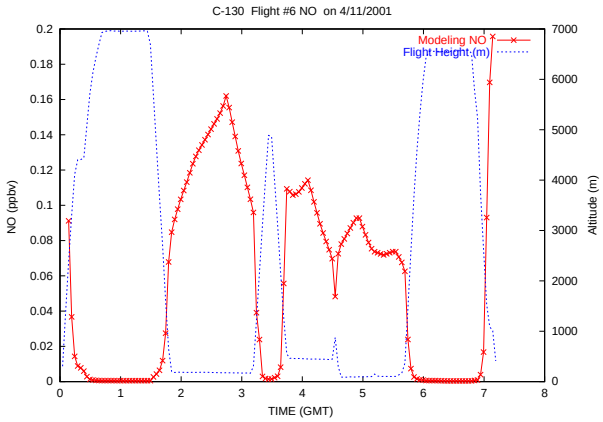

C-130 Flight #6 Pressure on 4/11/2001
Observed Pressure
Modeling Pressure
Flight Height (m)
Pressure (hPa)
Altitude (m)
TIME (GMT)

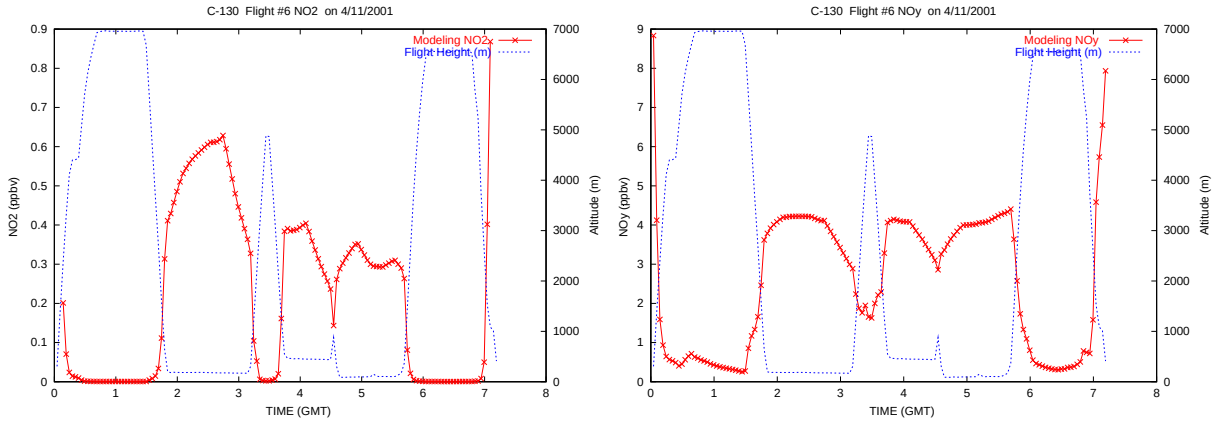

C-130 Flight #6 Temperature on 4/11/2001
Observed Temperature
Modeling Temperature
Flight Height (m)
Temperature (K)
Altitude (m)
TIME (GMT)


C-130 Flight #6 Relative Humdity on 4/11/2001
Observed Relative Humdity
Modeling Relative Humdity
Flight Height (m)
Relative Humdity (%)
Altitude (m)
TIME (GMT)

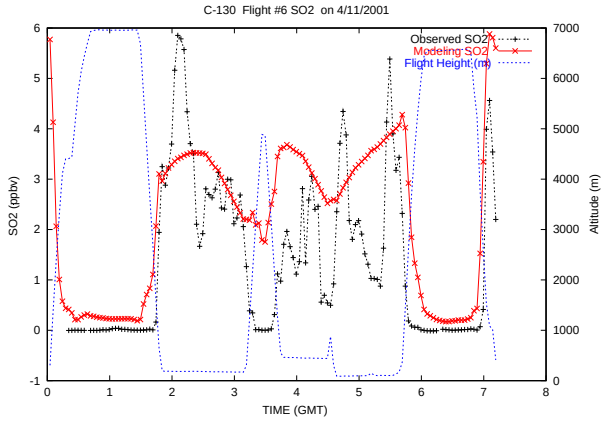

C-130 Flight #6 O3 on 4/11/2001
Observed O3
Modeling O3
Flight Height (m)
O3 (ppbv)
Altitude (m)
TIME (GMT)

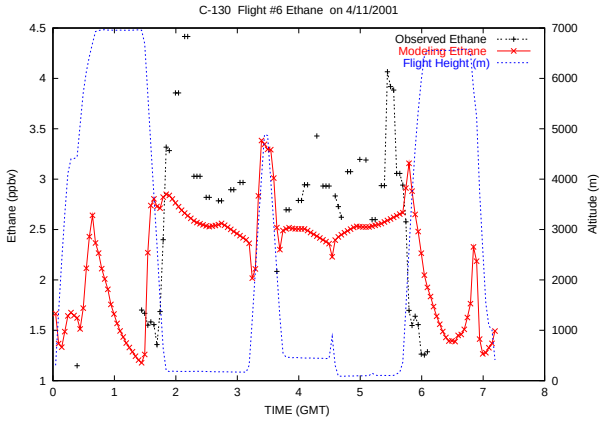

C-130 Flight #6 CO on 4/11/2001
Modeling CO
Flight Height (m)
CO (ppbv)
Altitude (m)
TIME (GMT)

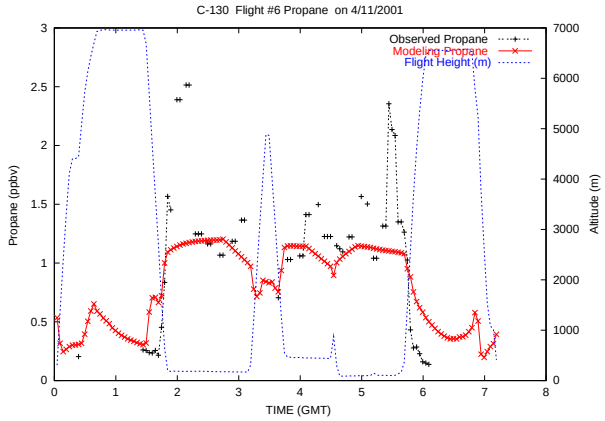

C-130 Flight #6 NO on 4/11/2001
Modeling NO
Flight Height (m)
NO (ppbv)
Altitude (m)
TIME (GMT)

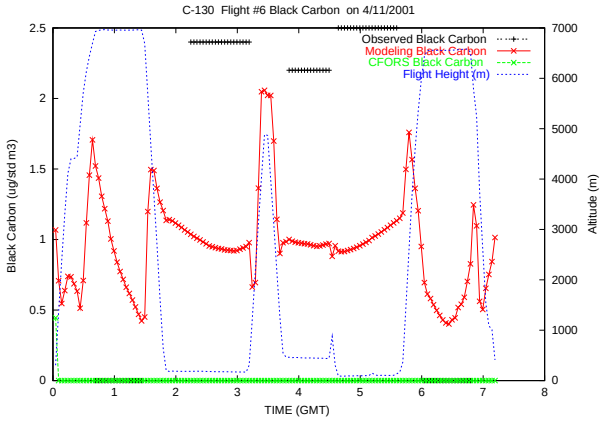

C-130 Flight #6 NO2 on 4/11/2001
Modeling NO2
Flight Height (m)
NO2 (ppbv)
Altitude (m)
TIME (GMT)

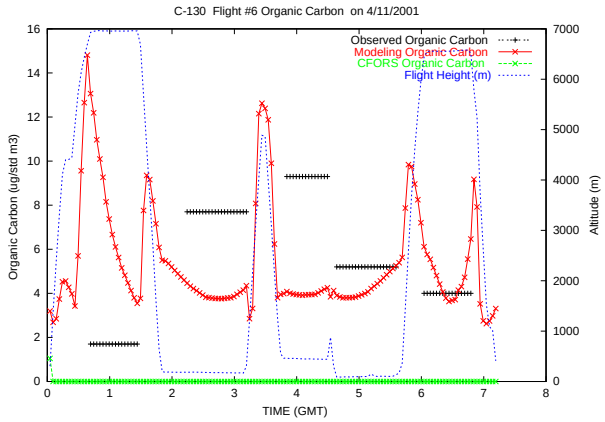

C-130 Flight #6 NOy on 4/11/2001
Modeling NOy
Flight Height (m)
NOy (ppbv)
Altitude (m)
TIME (GMT)

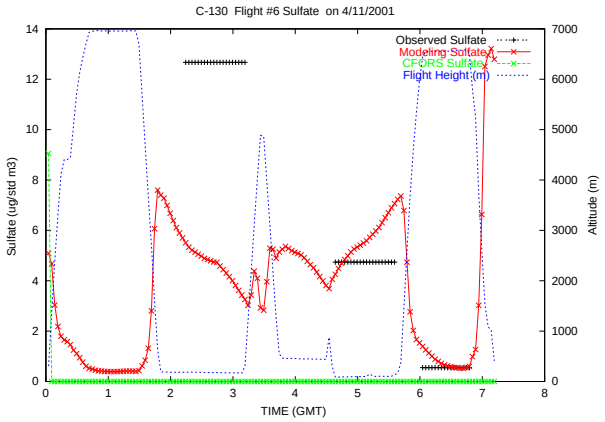

C-130 Flight #6 SO2 on 4/11/2001
Observed SO2
Modeling SO2
Flight Height (m)
SO2 (ppbv)
Altitude (m)
TIME (GMT)

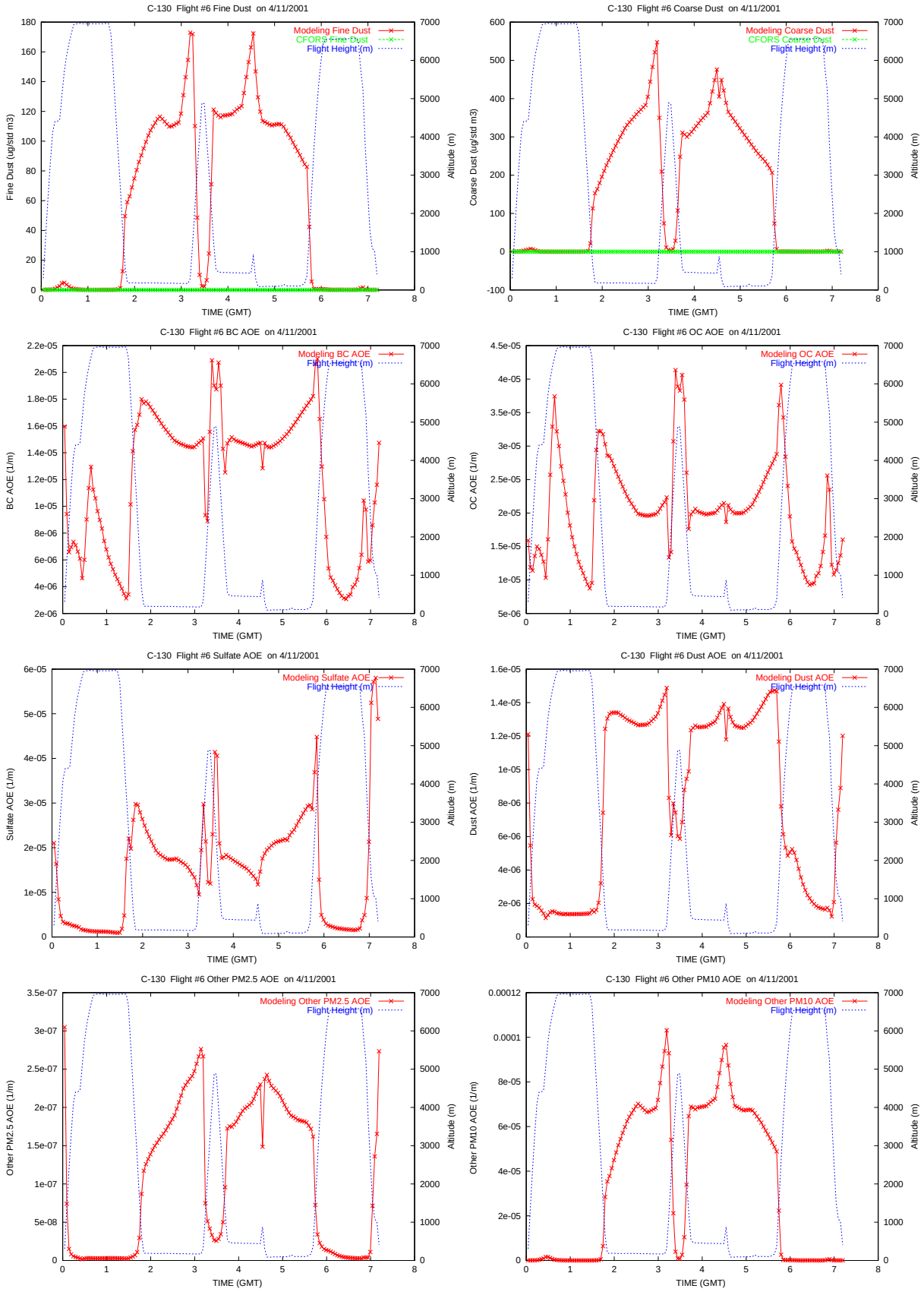

C-130 Flight #6 Ethane on 4/11/2001
Observed Ethane
Modeling Ethane
Flight Height (m)
Ethane (ppbv)
Altitude (m)
TIME (GMT)

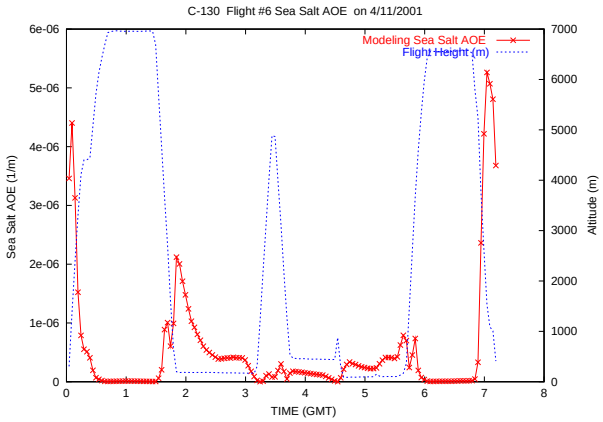

C-130 Flight #6 Propane on 4/11/2001
Observed Propane
Modeling Propane
Flight Height (m)
Propane (ppbv)
Altitude (m)
TIME (GMT)

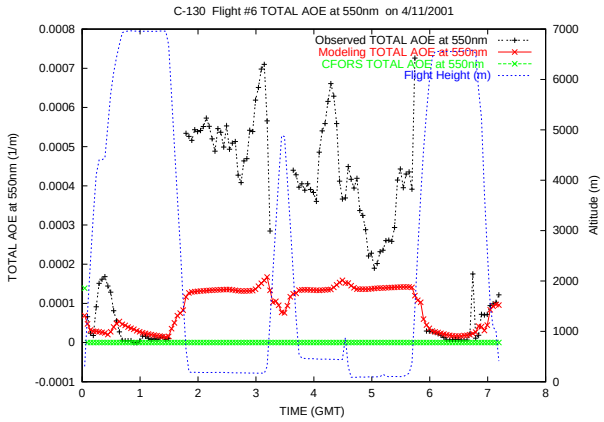

C-130 Flight #6 Black Carbon on 4/11/2001
Observed Black Carbon
Modeling Black Carbon
CFORS Black Carbon
Flight Height (m)
Black Carbon (ug/std m3)
Altitude (m)
TIME (GMT)

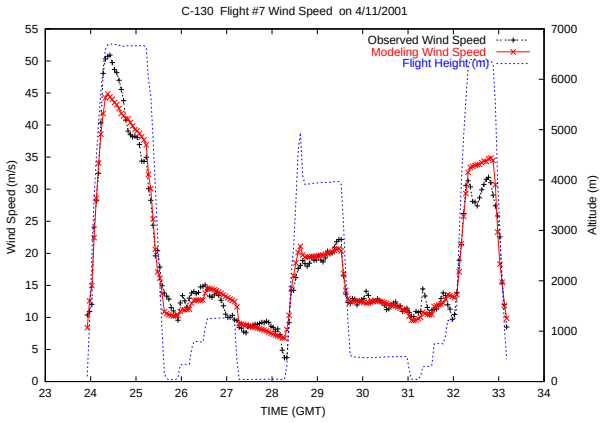

C-130 Flight #6 Organic Carbon on 4/11/2001
Observed Organic Carbon
Modeling Organic Carbon
CFORS Organic Carbon
Flight Height (m)
Organic Carbon (ug/std m3)
Altitude (m)
TIME (GMT)

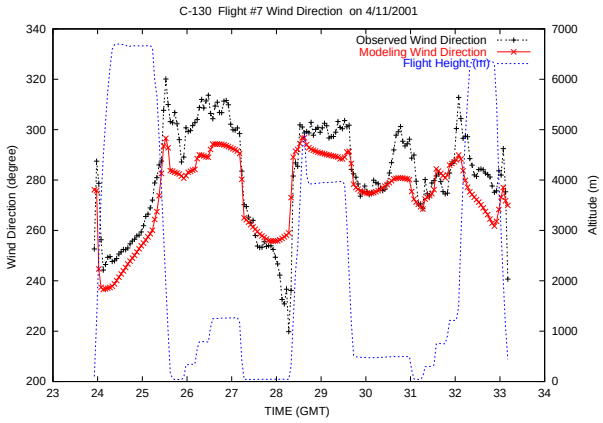

C-130 Flight #6 Sulfate on 4/11/2001
Observed Sulfate
Modeling Sulfate
CFORS Sulfate
Flight Height (m)
Sulfate (ug/std m3)
Altitude (m)
TIME (GMT)

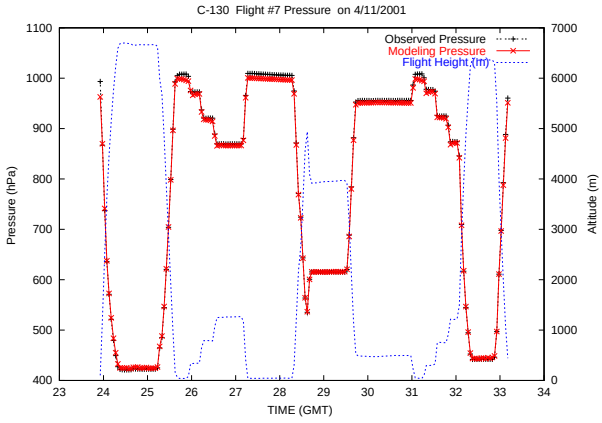

C-130 Flight #6 Fine Dust on 4/11/2001
Modeling Fine Dust
CFORS Fine Dust
Flight Height (m)
Fine Dust (ug/std m3)
Altitude (m)
TIME (GMT)
C-130 Flight #6 Coarse Dust on 4/11/2001
Modeling Coarse Dust
CFORS Coarse Dust
Flight Height (m)
Coarse Dust (ug/std m3)
Altitude (m)
TIME (GMT)
C-130 Flight #6 BC AOE on 4/11/2001
Modeling BC AOE
Flight Height (m)
BC AOE (1/m)
Altitude (m)
TIME (GMT)
C-130 Flight #6 OC AOE on 4/11/2001
Modeling OC AOE
Flight Height (m)
OC AOE (1/m)
Altitude (m)
TIME (GMT)
C-130 Flight #6 Sulfate AOE on 4/11/2001
Modeling Sulfate AOE
Flight Height (m)
Sulfate AOE (1/m)
Altitude (m)
TIME (GMT)
C-130 Flight #6 Dust AOE on 4/11/2001
Modeling Dust AOE
Flight Height (m)
Dust AOE (1/m)
Altitude (m)
TIME (GMT)
C-130 Flight #6 Other PM2.5 AOE on 4/11/2001
Modeling Other PM2.5 AOE
Flight Height (m)
Other PM2.5 AOE (1/m)
Altitude (m)
TIME (GMT)
C-130 Flight #6 Other PM10 AOE on 4/11/2001
Modeling Other PM10 AOE
Flight Height (m)
Other PM10 AOE (1/m)
Altitude (m)
TIME (GMT)

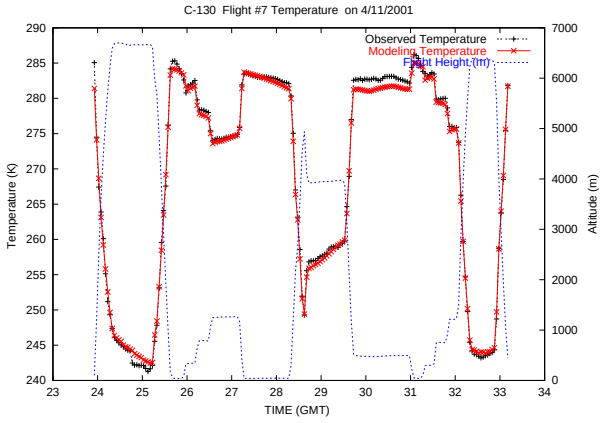

C-130 Flight #6 Sea Salt AOE on 4/11/2001
Modeling Sea Salt AOE
Flight Height (m)
Sea Salt AOE (1/m)
Altitude (m)
TIME (GMT)
0
1e-06
2e-06
3e-06
4e-06
5e-06
6e-06
0
1000
2000
3000
4000
5000
6000
7000
0
1
2
3
4
5
6
7
8

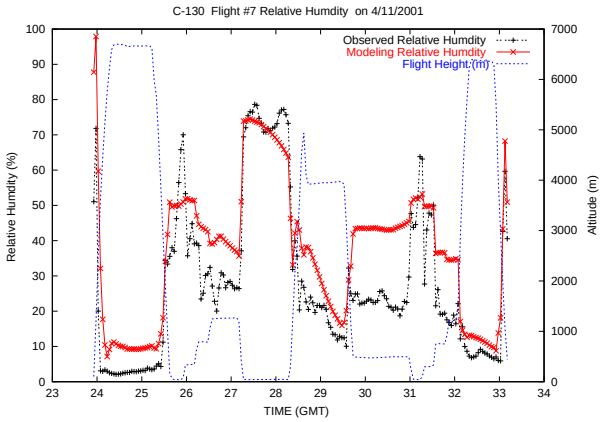

C-130 Flight #6 TOTAL AOE at 550nm on 4/11/2001
Observed TOTAL AOE at 550nm
Modeling TOTAL AOE at 550nm
CFORS TOTAL AOE at 550nm
Flight Height (m)
TOTAL AOE at 550nm (1/m)
Altitude (m)
TIME (GMT)
-0.0001
0
0.0001
0.0002
0.0003
0.0004
0.0005
0.0006
0.0007
0.0008
0
1000
2000
3000
4000
5000
6000
7000
0
1
2
3
4
5
6
7
8

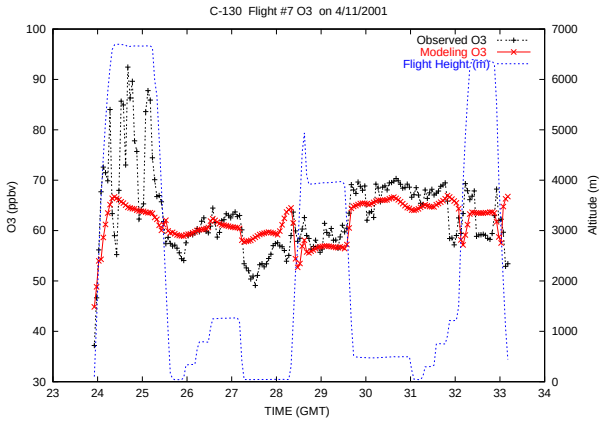

C-130 Flight #7 Wind Speed on 4/11/2001
Observed Wind Speed
Modeling Wind Speed
Flight Height (m)
Wind Speed (m/s)
Altitude (m)
TIME (GMT)

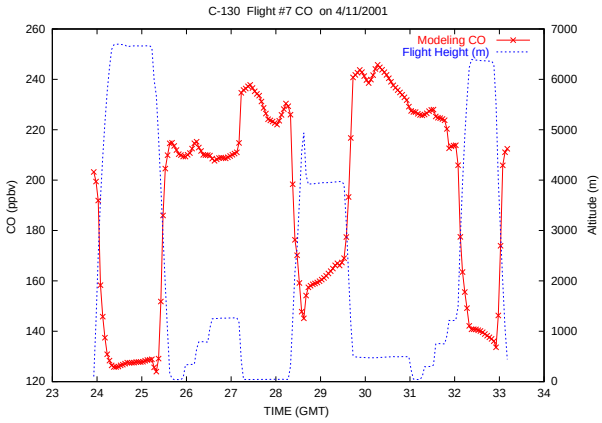

C-130 Flight #7 Wind Direction on 4/11/2001
Observed Wind Direction
Modeling Wind Direction
Flight Height (m)
Wind Direction (degree)
Altitude (m)
TIME (GMT)

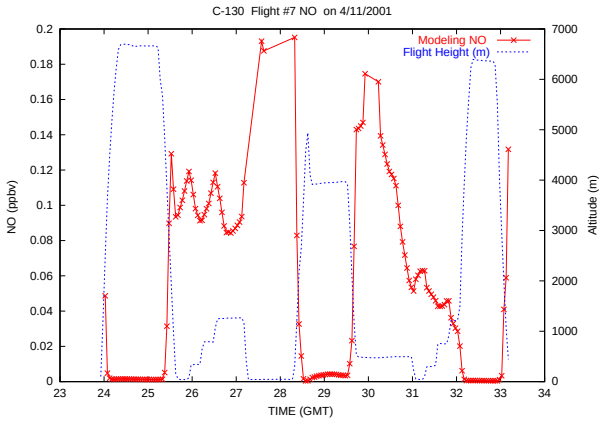

C-130 Flight #7 Pressure on 4/11/2001
Observed Pressure
Modeling Pressure
Flight Height (m)
Pressure (hPa)
Altitude (m)
TIME (GMT)

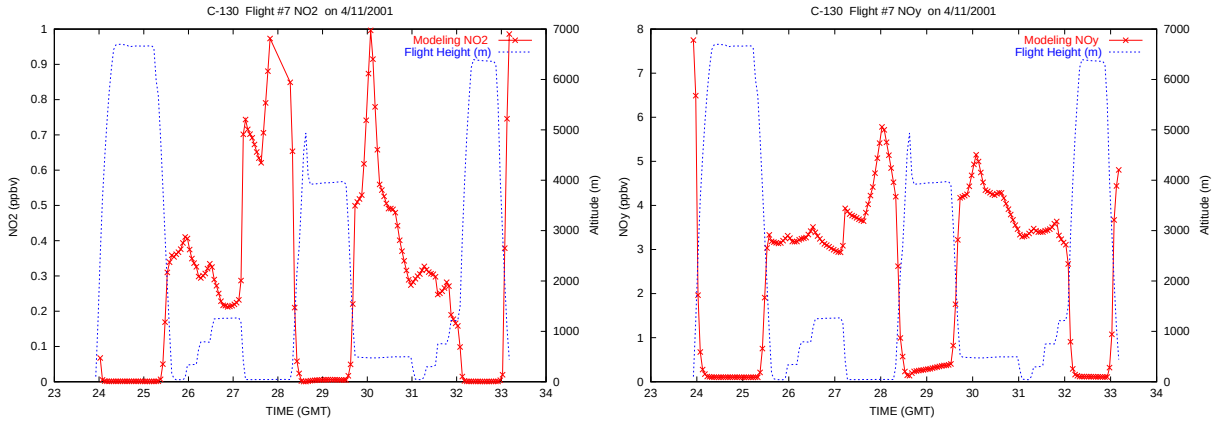

C-130 Flight #7 Temperature on 4/11/2001
Observed Temperature
Modeling Temperature
Flight Height (m)
Temperature (K)
Altitude (m)
TIME (GMT)


C-130 Flight #7 Relative Humdity on 4/11/2001
Observed Relative Humdity
Modeling Relative Humdity
Flight Height (m)
Relative Humdity (%)
Altitude (m)
TIME (GMT)

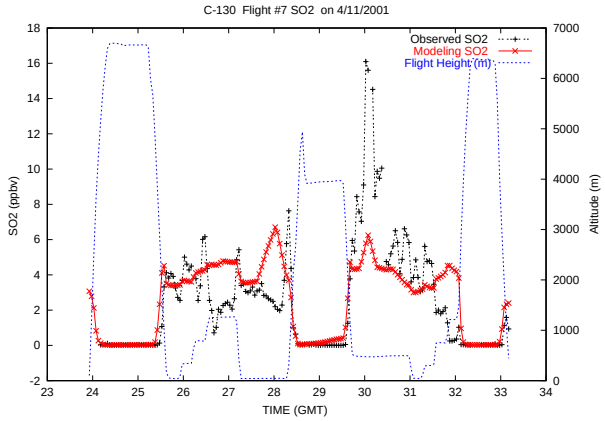

C-130 Flight #7 O3 on 4/11/2001
Observed O3
Modeling O3
Flight Height (m)
O3 (ppbv)
Altitude (m)
TIME (GMT)

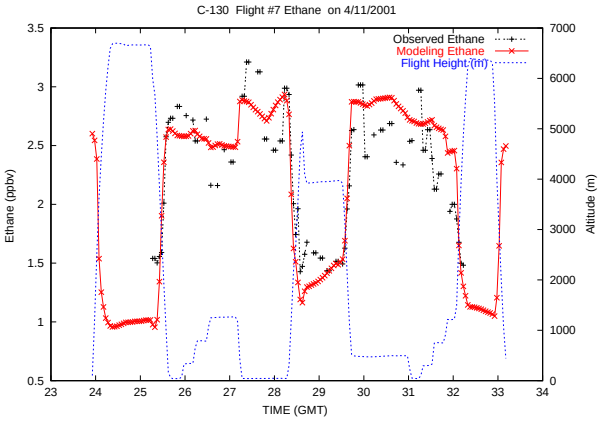

C-130 Flight #7 CO on 4/11/2001
Modeling CO
Flight Height (m)
CO (ppbv)
Altitude (m)
TIME (GMT)

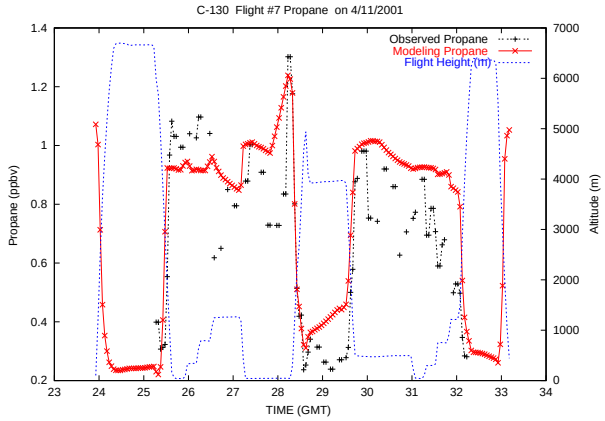

C-130 Flight #7 NO on 4/11/2001
Modeling NO
Flight Height (m)
NO (ppbv)
Altitude (m)
TIME (GMT)

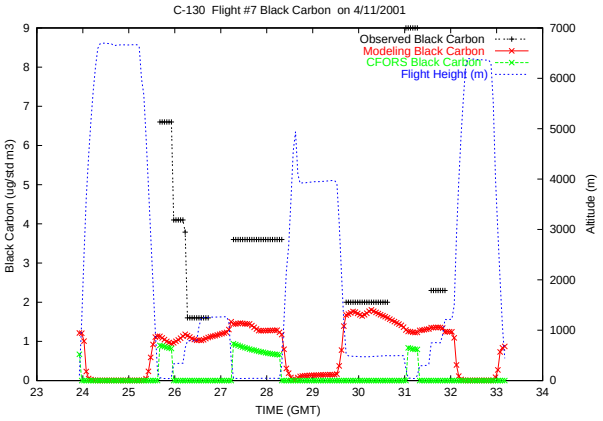

C-130 Flight #7 NO2 on 4/11/2001
Modeling NO2
Flight Height (m)
NO2 (ppbv)
Altitude (m)
TIME (GMT)

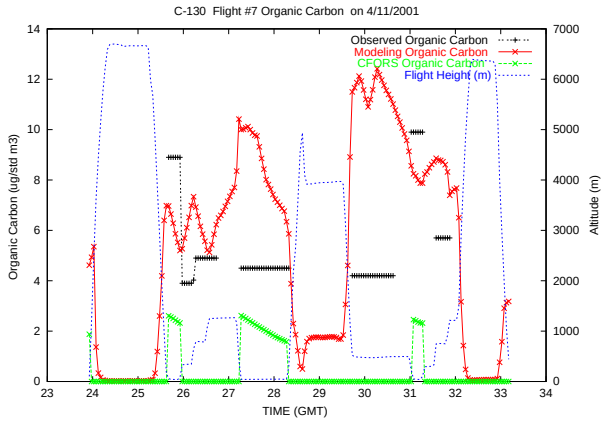

C-130 Flight #7 NOy on 4/11/2001
Modeling NOy
Flight Height (m)
NOy (ppbv)
Altitude (m)
TIME (GMT)

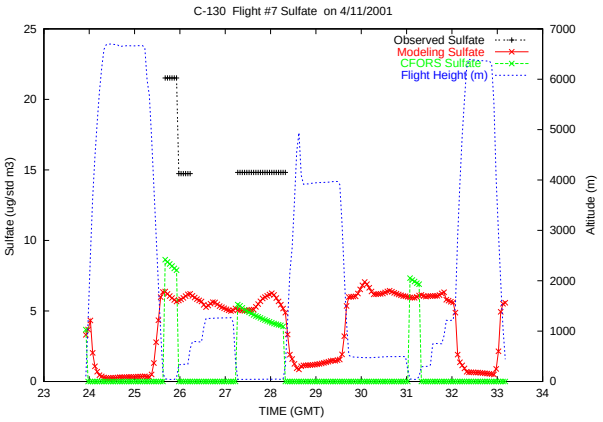

C-130 Flight #7 SO2 on 4/11/2001
Observed SO2
Modeling SO2
Flight Height (m)
SO2 (ppbv)
Altitude (m)
TIME (GMT)

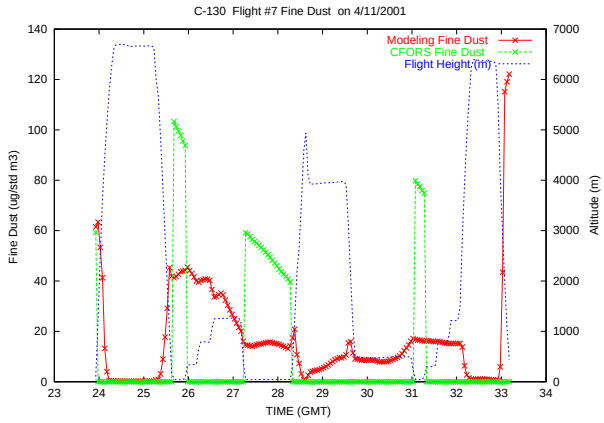

C-130 Flight #7 Ethane on 4/11/2001
Observed Ethane
Modeling Ethane
Flight Height (m)
Ethane (ppbv)
Altitude (m)
TIME (GMT)

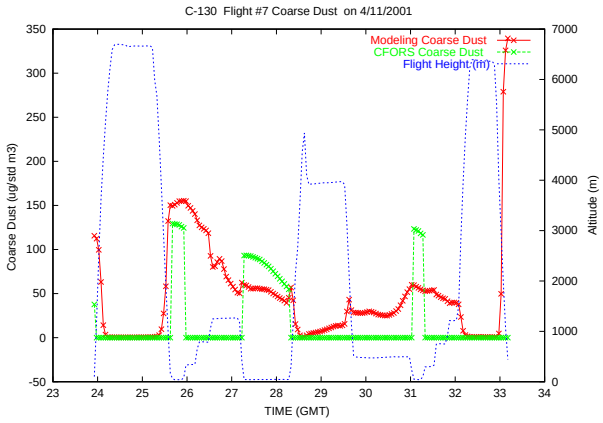

C-130 Flight #7 Propane on 4/11/2001
Observed Propane
Modeling Propane
Flight Height (m)
Propane (ppbv)
Altitude (m)
TIME (GMT)

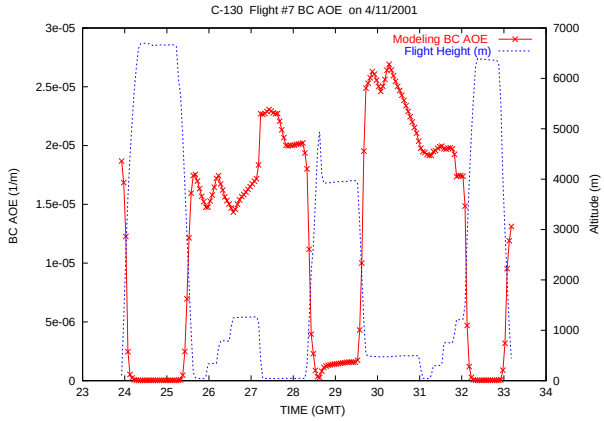

C-130 Flight #7 Black Carbon on 4/11/2001
Observed Black Carbon
Modeling Black Carbon
CFORS Black Carbon
Flight Height (m)
Black Carbon (ug/std m3)
Altitude (m)
TIME (GMT)

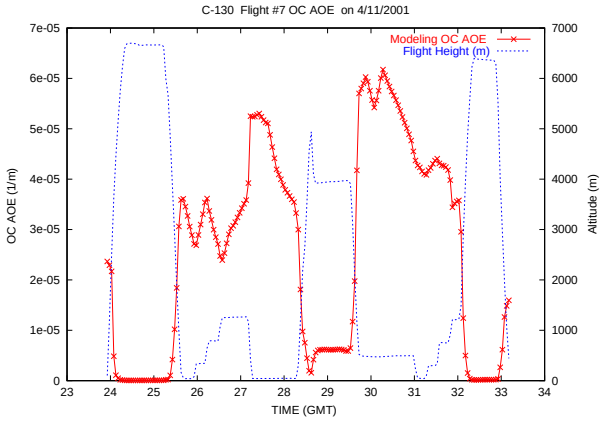

C-130 Flight #7 Organic Carbon on 4/11/2001
Observed Organic Carbon
Modeling Organic Carbon
CFORS Organic Carbon
Flight Height (m)
Organic Carbon (ug/std m3)
Altitude (m)
TIME (GMT)

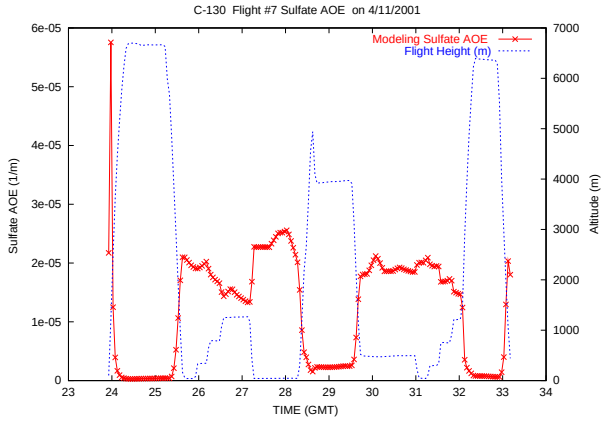

C-130 Flight #7 Sulfate on 4/11/2001
Observed Sulfate
Modeling Sulfate
CFORS Sulfate
Flight Height (m)
Sulfate (ug/std m3)
Altitude (m)
TIME (GMT)

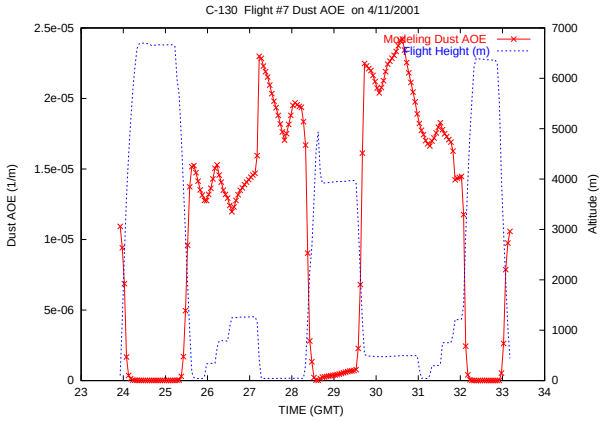

C-130 Flight #7 Fine Dust on 4/11/2001
Modeling Fine Dust
CFORS Fine Dust
Flight Height (m)
Fine Dust (ug/std m3)
Altitude (m)
TIME (GMT)

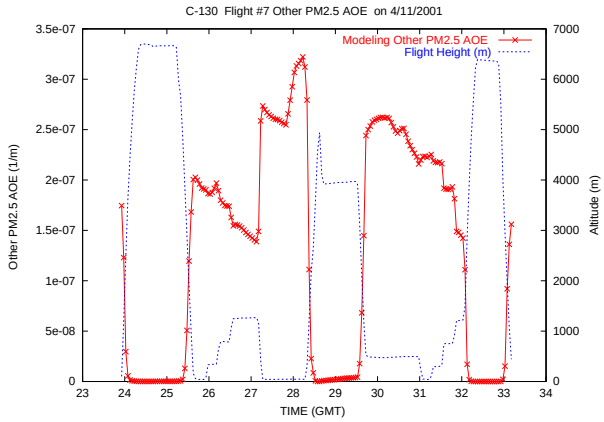

C-130 Flight #7 Coarse Dust on 4/11/2001
Modeling Coarse Dust
CFORS Coarse Dust
Flight Height (m)
Coarse Dust (ug/std m3)
Altitude (m)
TIME (GMT)

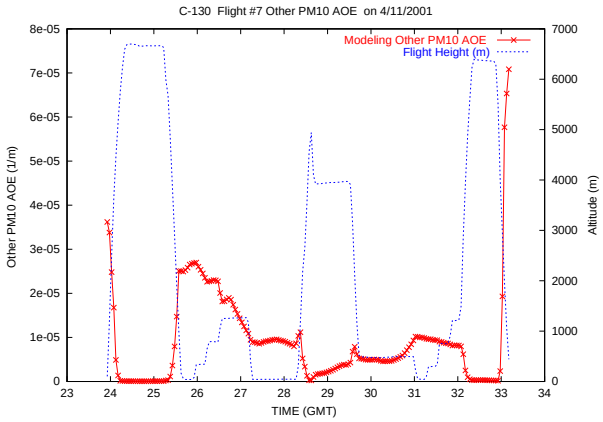

C-130 Flight #7 BC AOE on 4/11/2001
Modeling BC AOE
Flight Height (m)
BC AOE (1/m)
Altitude (m)
TIME (GMT)

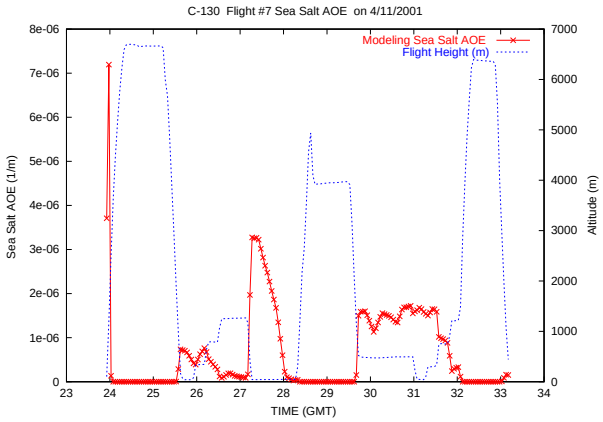

C-130 Flight #7 OC AOE on 4/11/2001
Modeling OC AOE
Flight Height (m)
OC AOE (1/m)
Altitude (m)
TIME (GMT)

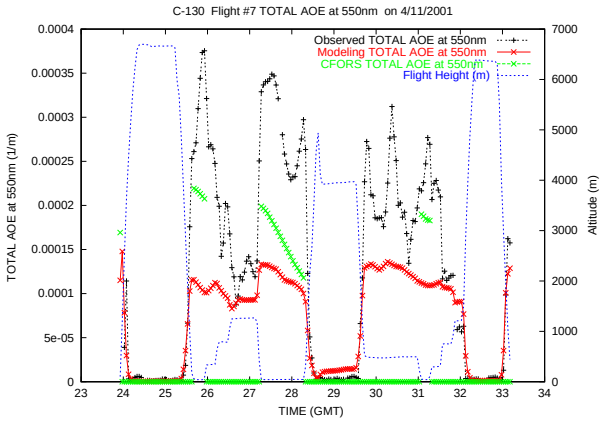

C-130 Flight #7 Sulfate AOE on 4/11/2001
Modeling Sulfate AOE
Flight Height (m)
Sulfate AOE (1/m)
Altitude (m)
TIME (GMT)

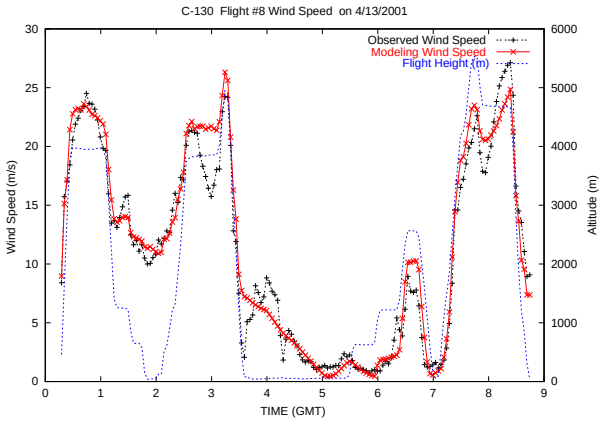

C-130 Flight #7 Dust AOE on 4/11/2001
Modeling Dust AOE
Flight Height (m)
Dust AOE (1/m)
Altitude (m)
TIME (GMT)

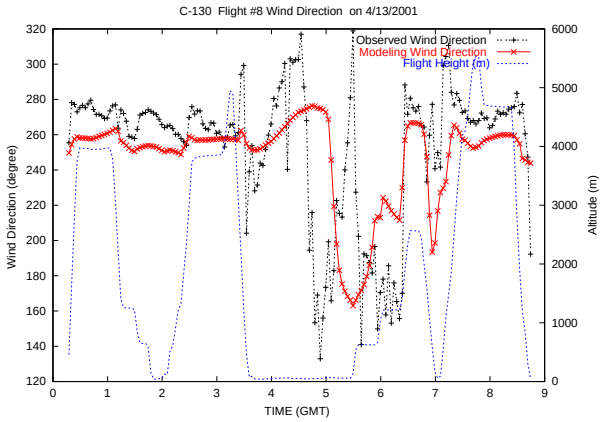

C-130 Flight #7 Other PM2.5 AOE on 4/11/2001
Modeling Other PM2.5 AOE
Flight Height (m)
Other PM2.5 AOE (1/m)
Altitude (m)
TIME (GMT)

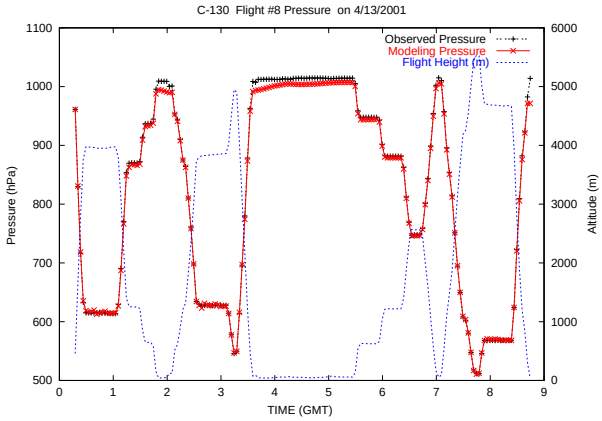

C-130 Flight #7 Other PM10 AOE on 4/11/2001
Modeling Other PM10 AOE
Flight Height (m)
Other PM10 AOE (1/m)
Altitude (m)
TIME (GMT)

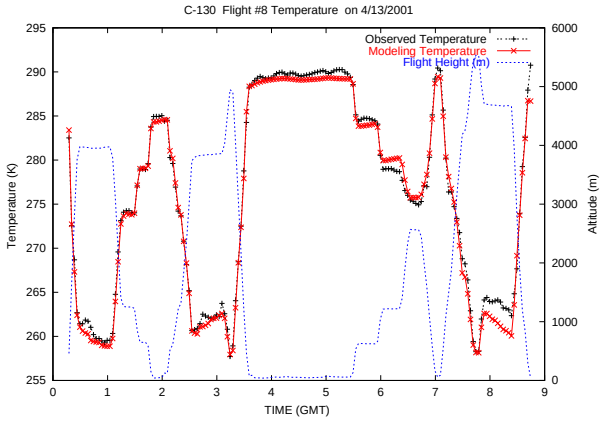

C-130 Flight #7 Sea Salt AOE on 4/11/2001
Modeling Sea Salt AOE
Flight Height (m)
Sea Salt AOE (1/m)
Altitude (m)
TIME (GMT)
8e-06
7e-06
6e-06
5e-06
4e-06
3e-06
2e-06
1e-06
0
7000
6000
5000
4000
3000
2000
1000
0
23
24
25
26
27
28
29
30
31
32
33
34

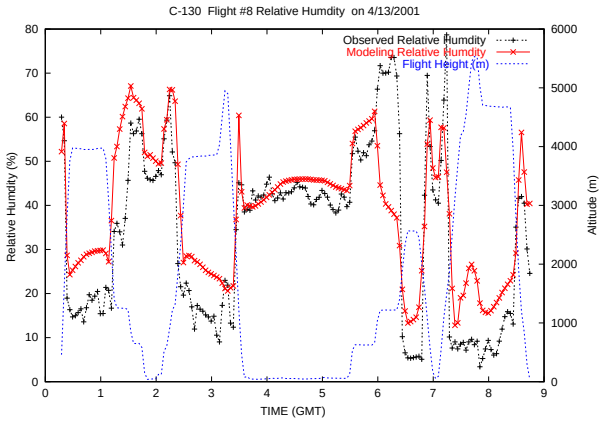

C-130 Flight #7 TOTAL AOE at 550nm on 4/11/2001
Observed TOTAL AOE at 550nm
Modeling TOTAL AOE at 550nm
CFORS TOTAL AOE at 550nm
Flight Height (m)
TOTAL AOE at 550nm (1/m)
Altitude (m)
TIME (GMT)
0.0004
0.00035
0.0003
0.00025
0.0002
0.00015
0.0001
5e-05
0
7000
6000
5000
4000
3000
2000
1000
0
23
24
25
26
27
28
29
30
31
32
33
34

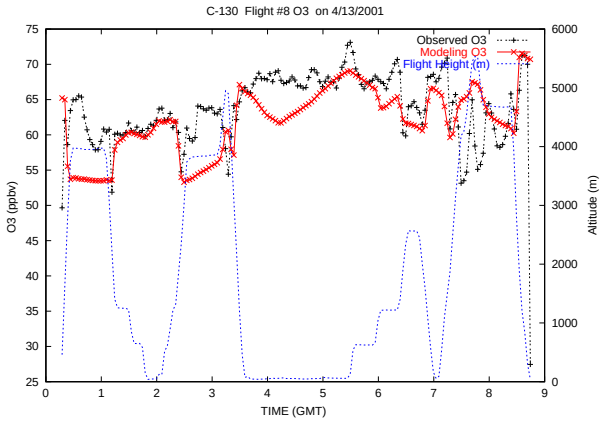

C-130 Flight #8 Wind Speed on 4/13/2001
Observed Wind Speed
Modeling Wind Speed
Flight Height (m)
Wind Speed (m/s)
Altitude (m)
TIME (GMT)

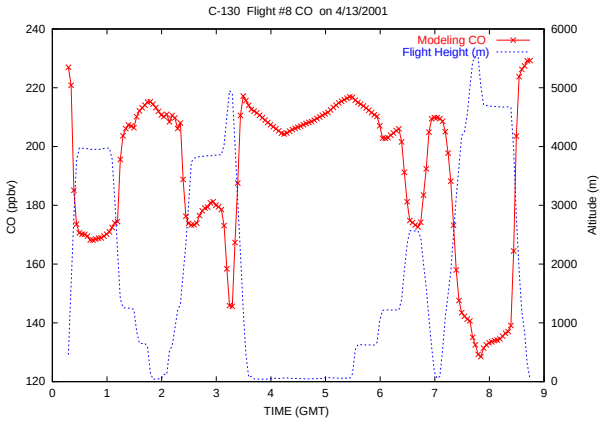

C-130 Flight #8 Wind Direction on 4/13/2001
Observed Wind Direction
Modeling Wind Direction
Flight Height (m)
Wind Direction (degree)
Altitude (m)
TIME (GMT)

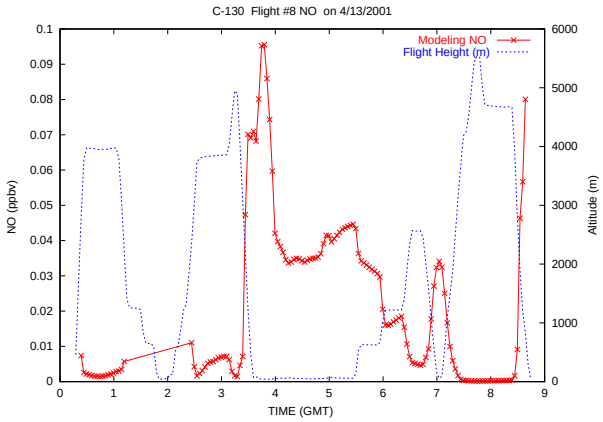

C-130 Flight #8 Pressure on 4/13/2001
Observed Pressure
Modeling Pressure
Flight Height (m)
Pressure (hPa)
Altitude (m)
TIME (GMT)

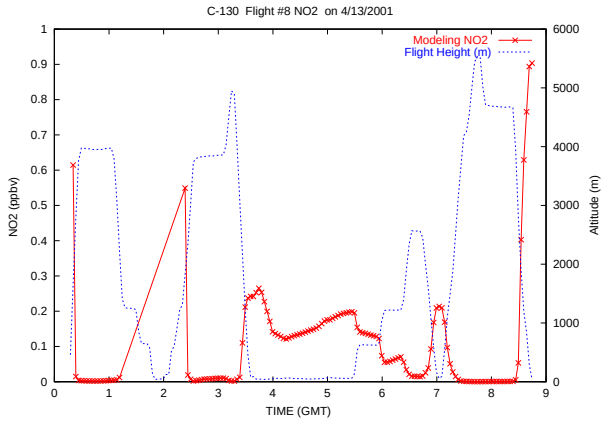

C-130 Flight #8 Temperature on 4/13/2001
Observed Temperature
Modeling Temperature
Flight Height (m)
Temperature (K)
Altitude (m)
TIME (GMT)

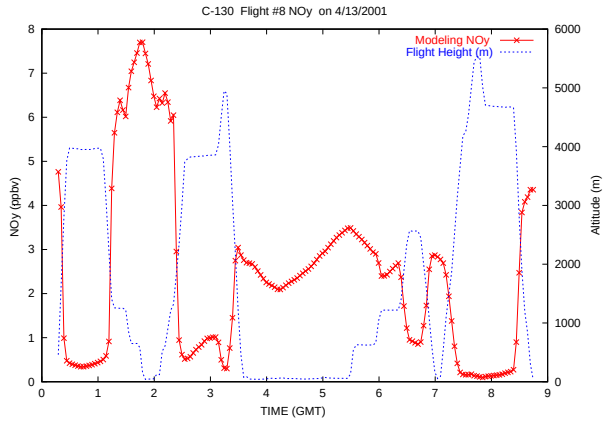

C-130 Flight #8 Relative Humdity on 4/13/2001
Observed Relative Humdity
Modeling Relative Humdity
Flight Height (m)
Relative Humdity (%)
Altitude (m)
TIME (GMT)

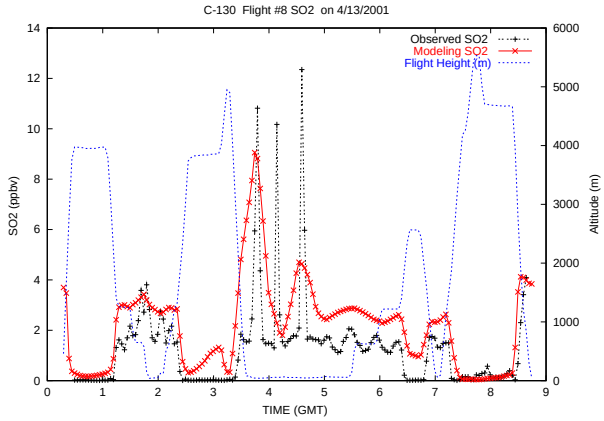

C-130 Flight #8 O3 on 4/13/2001
Observed O3
Modeling O3
Flight Height (m)
O3 (ppbv)
Altitude (m)
TIME (GMT)

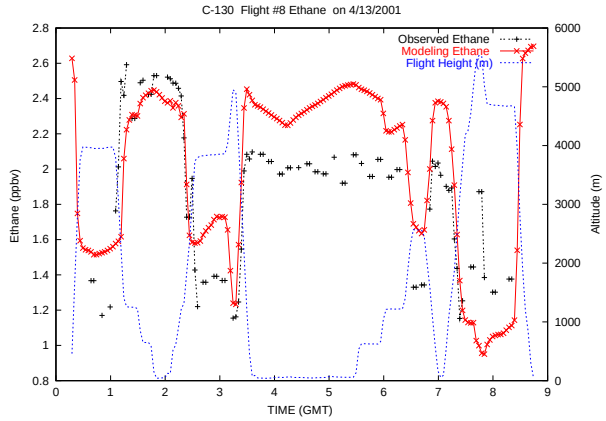

C-130 Flight #8 CO on 4/13/2001
Modeling CO
Flight Height (m)
CO (ppbv)
Altitude (m)
TIME (GMT)

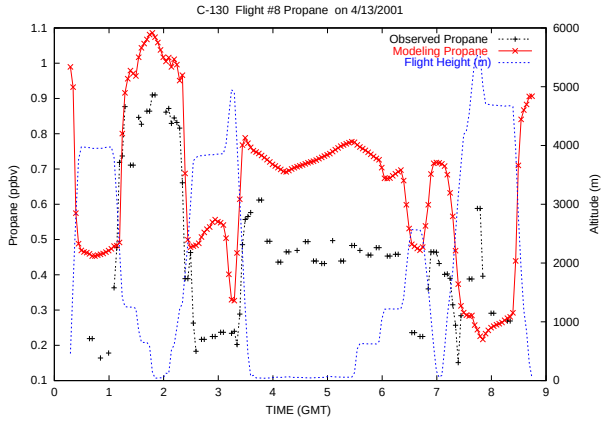

C-130 Flight #8 NO on 4/13/2001
Modeling NO
Flight Height (m)
NO (ppbv)
Altitude (m)
TIME (GMT)

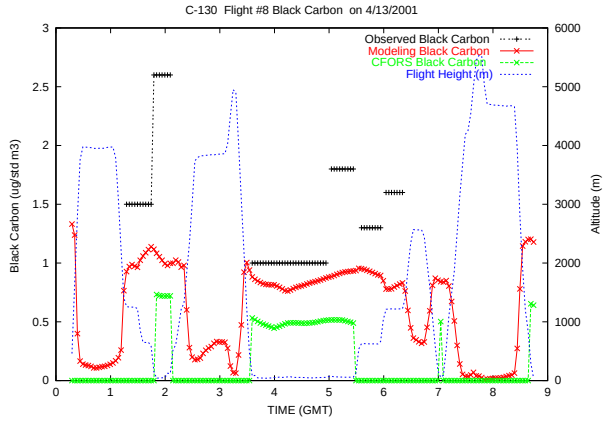

C-130 Flight #8 NO2 on 4/13/2001
Modeling NO2
Flight Height (m)
NO2 (ppbv)
Altitude (m)
TIME (GMT)

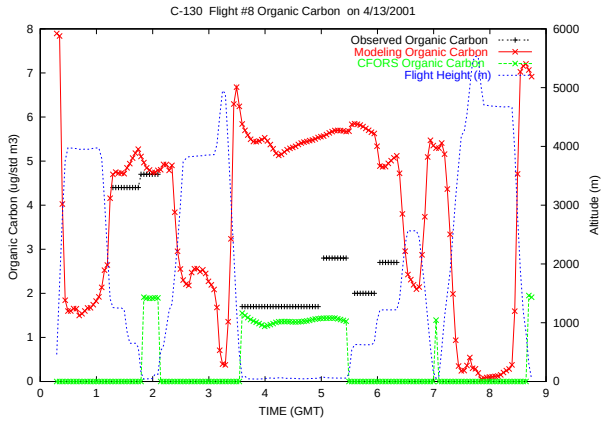

C-130 Flight #8 NOy on 4/13/2001
Modeling NOy
Flight Height (m)
NOy (ppbv)
Altitude (m)
TIME (GMT)

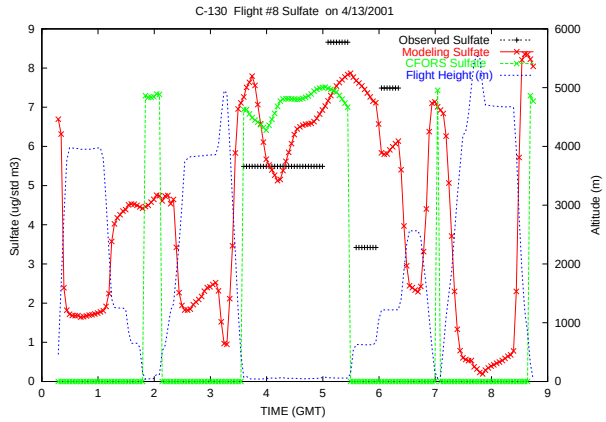

C-130 Flight #8 SO2 on 4/13/2001
Observed SO2
Modeling SO2
Flight Height (m)
SO2 (ppbv)
Altitude (m)
TIME (GMT)

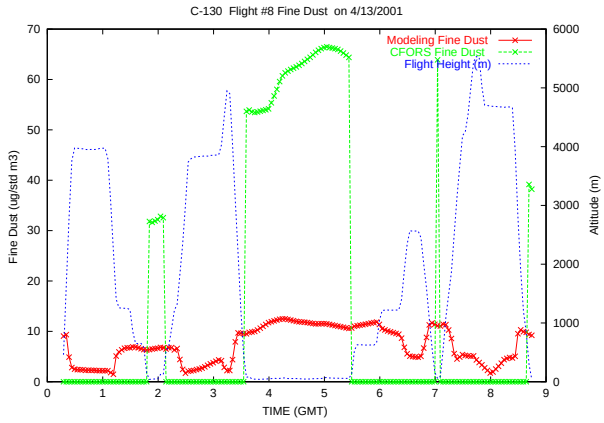

C-130 Flight #8 Ethane on 4/13/2001
Observed Ethane
Modeling Ethane
Flight Height (m)
Ethane (ppbv)
Altitude (m)
TIME (GMT)

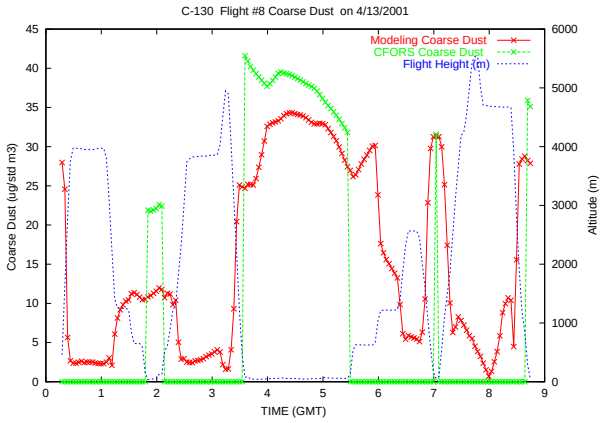

C-130 Flight #8 Propane on 4/13/2001
Observed Propane
Modeling Propane
Flight Height (m)
Propane (ppbv)
Altitude (m)
TIME (GMT)

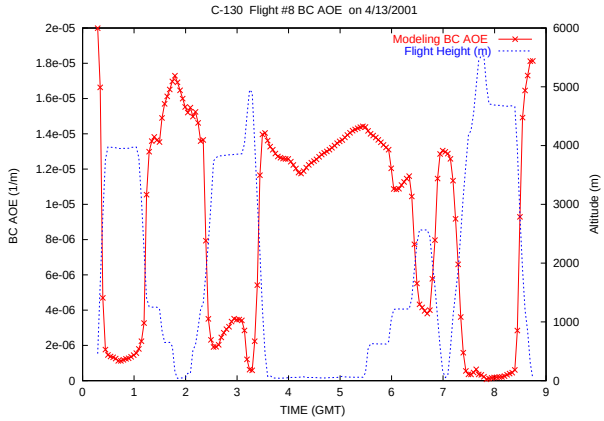

C-130 Flight #8 Black Carbon on 4/13/2001
Observed Black Carbon
Modeling Black Carbon
CFORS Black Carbon
Flight Height (m)
Black Carbon (ug/std m3)
Altitude (m)
TIME (GMT)

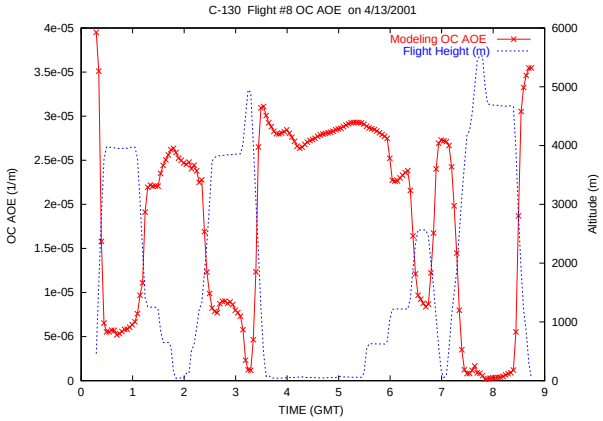

C-130 Flight #8 Organic Carbon on 4/13/2001
Observed Organic Carbon
Modeling Organic Carbon
CFORS Organic Carbon
Flight Height (m)
Organic Carbon (ug/std m3)
Altitude (m)
TIME (GMT)

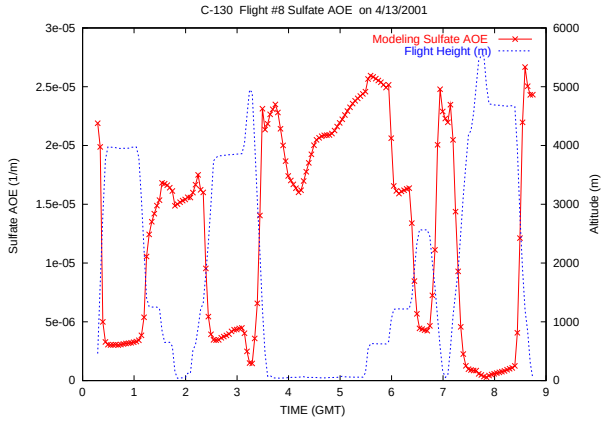

C-130 Flight #8 Sulfate on 4/13/2001
Observed Sulfate
Modeling Sulfate
CFORS Sulfate
Flight Height (m)
Sulfate (ug/std m3)
Altitude (m)
TIME (GMT)

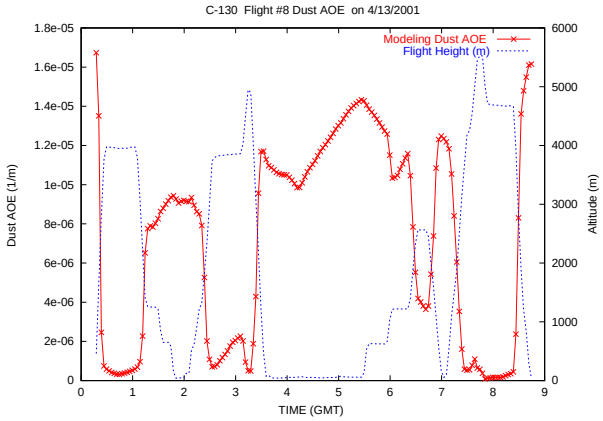

C-130 Flight #8 Fine Dust on 4/13/2001
Modeling Fine Dust
CFORS Fine Dust
Flight Height (m)
Fine Dust (ug/std m3)
Altitude (m)
TIME (GMT)

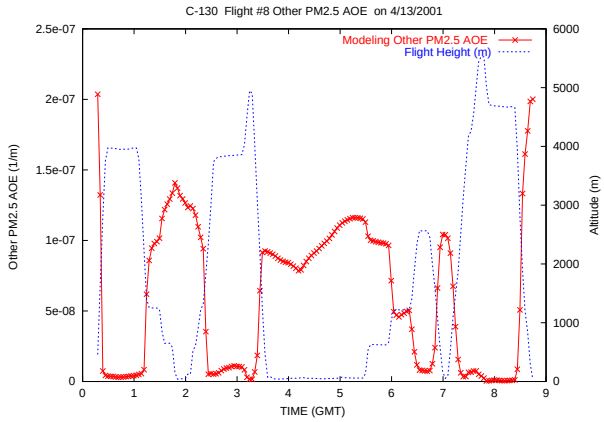

C-130 Flight #8 Coarse Dust on 4/13/2001
Modeling Coarse Dust
CFORS Coarse Dust
Flight Height (m)
Coarse Dust (ug/std m3)
Altitude (m)
TIME (GMT)

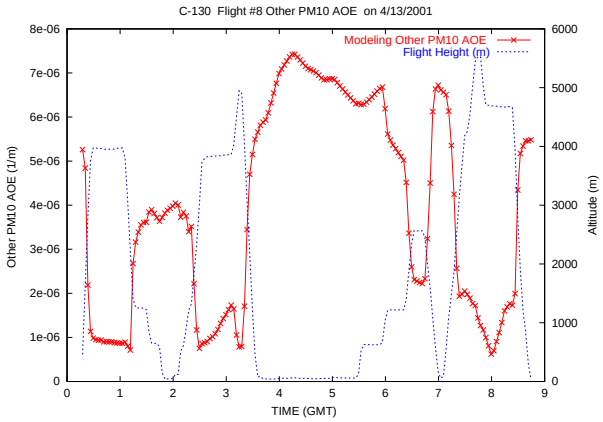

C-130 Flight #8 BC AOE on 4/13/2001
Modeling BC AOE
Flight Height (m)
BC AOE (1/m)
Altitude (m)
TIME (GMT)

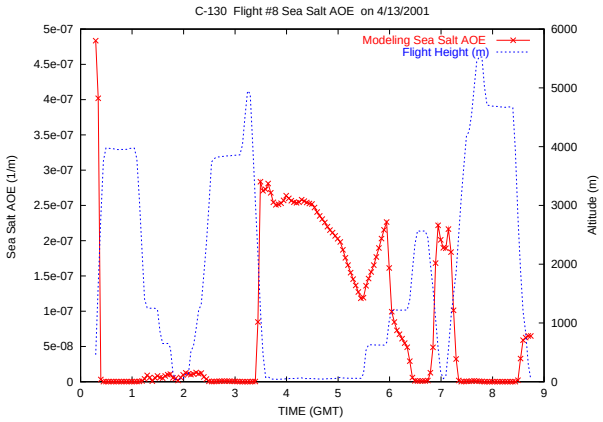

C-130 Flight #8 OC AOE on 4/13/2001
Modeling OC AOE
Flight Height (m)
OC AOE (1/m)
Altitude (m)
TIME (GMT)

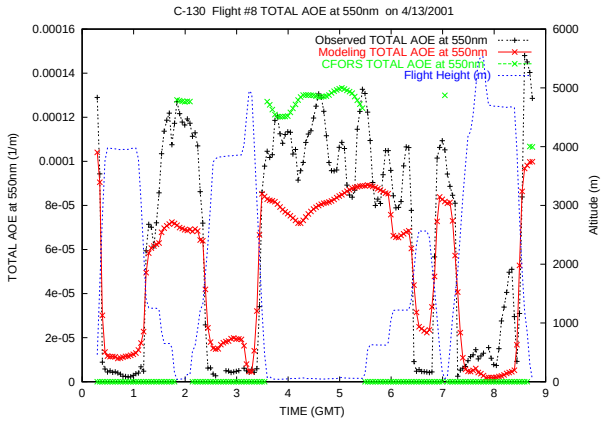

C-130 Flight #8 Sulfate AOE on 4/13/2001
Modeling Sulfate AOE
Flight Height (m)
Sulfate AOE (1/m)
Altitude (m)
TIME (GMT)

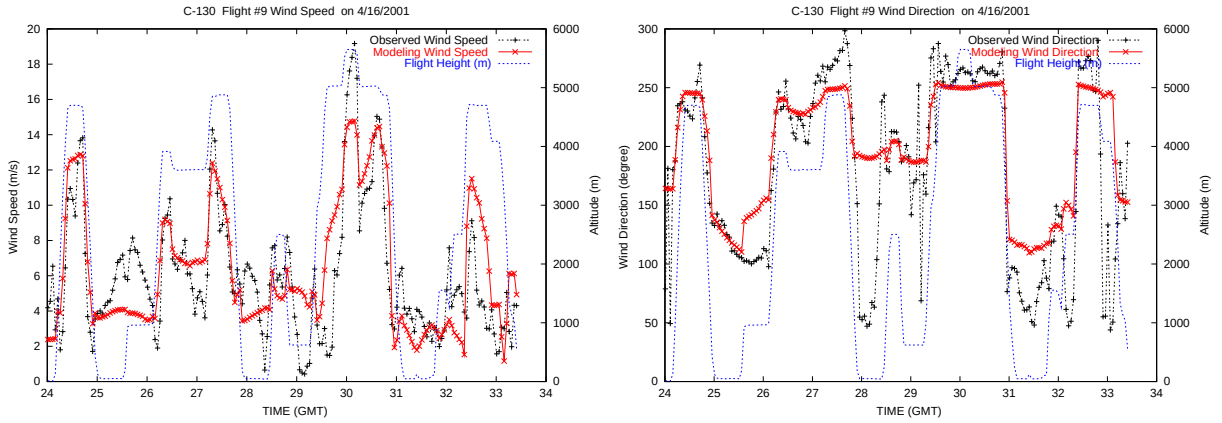

C-130 Flight #8 Dust AOE on 4/13/2001
Modeling Dust AOE
Flight Height (m)
Dust AOE (1/m)
Altitude (m)
TIME (GMT)


C-130 Flight #8 Other PM2.5 AOE on 4/13/2001
Modeling Other PM2.5 AOE
Flight Height (m)
Other PM2.5 AOE (1/m)
Altitude (m)
TIME (GMT)

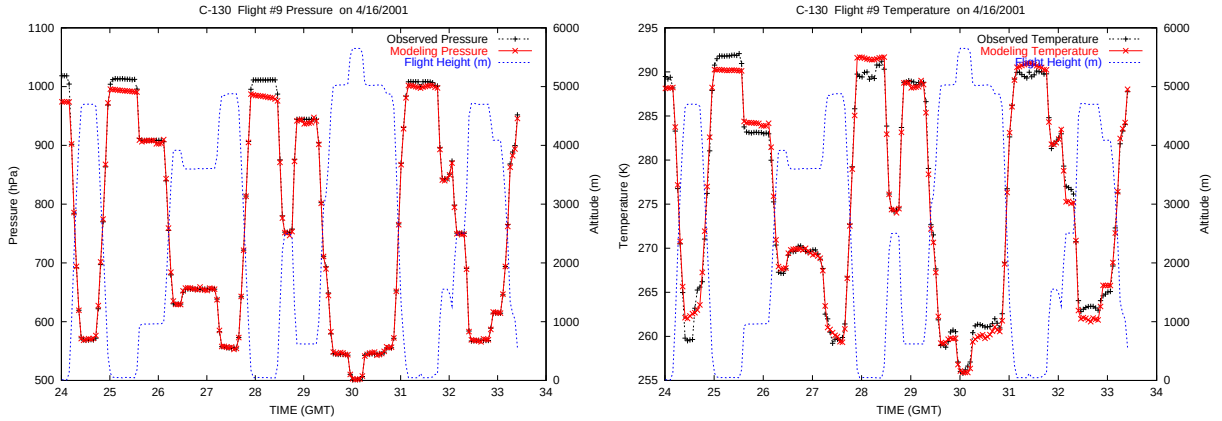

C-130 Flight #8 Other PM10 AOE on 4/13/2001
Modeling Other PM10 AOE
Flight Height (m)
Other PM10 AOE (1/m)
Altitude (m)
TIME (GMT)


C-130 Flight #8 Sea Salt AOE on 4/13/2001
Modeling Sea Salt AOE
Flight Height (m)
Sea Salt AOE (1/m)
Altitude (m)
TIME (GMT)

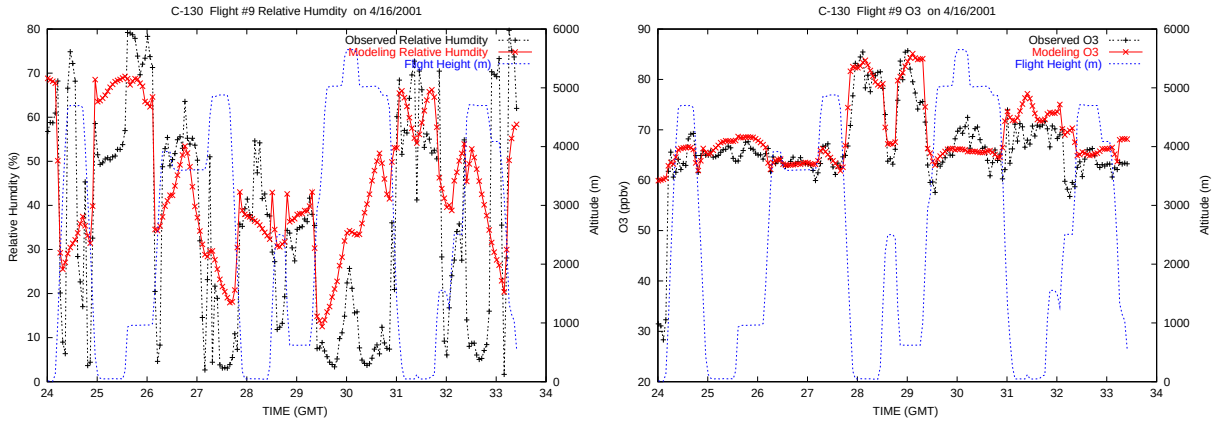

C-130 Flight #8 TOTAL AOE at 550nm on 4/13/2001
Observed TOTAL AOE at 550nm
Modeling TOTAL AOE at 550nm
CFORS TOTAL AOE at 550nm
Flight Height (m)
TOTAL AOE at 550nm (1/m)
Altitude (m)
TIME (GMT)


C-130 Flight #9 Wind Speed on 4/16/2001
Observed Wind Speed
Modeling Wind Speed
Flight Height (m)
Wind Speed (m/s)
Altitude (m)
TIME (GMT)

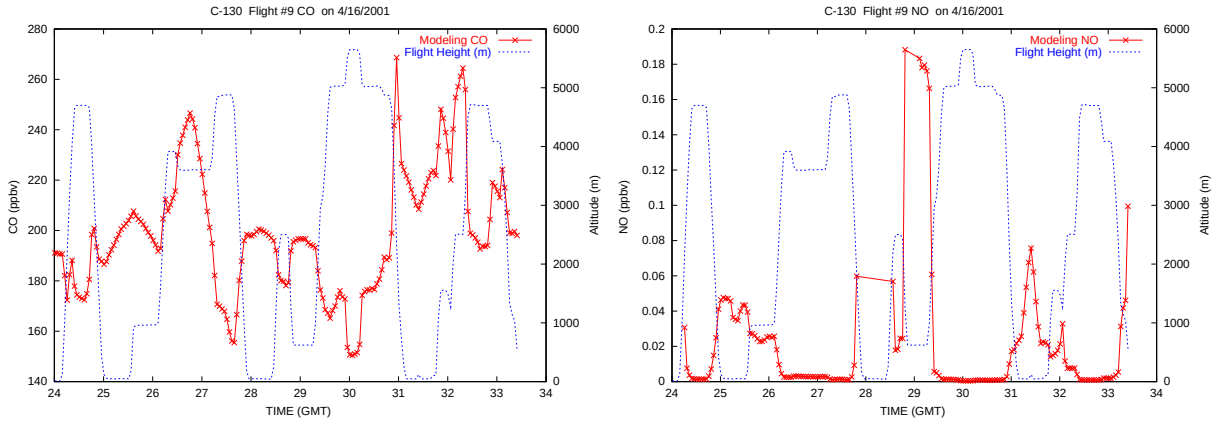

C-130 Flight #9 Wind Direction on 4/16/2001
Observed Wind Direction
Modeling Wind Direction
Flight Height (m)
Wind Direction (degree)
Altitude (m)
TIME (GMT)


C-130 Flight #9 Pressure on 4/16/2001
Observed Pressure
Modeling Pressure
Flight Height (m)
Pressure (hPa)
Altitude (m)
TIME (GMT)

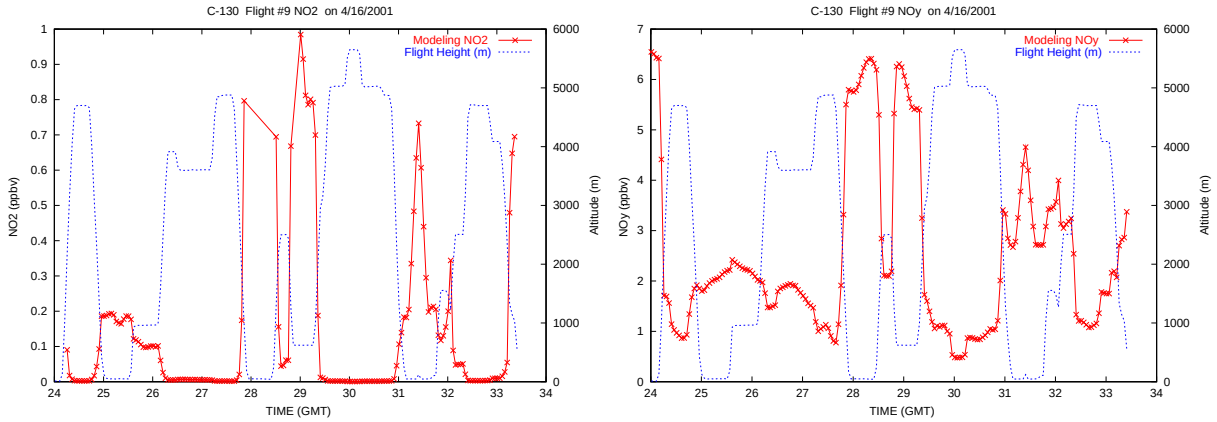

C-130 Flight #9 Temperature on 4/16/2001
Observed Temperature
Modeling Temperature
Flight Height (m)
Temperature (K)
Altitude (m)
TIME (GMT)


C-130 Flight #9 Relative Humdity on 4/16/2001
Observed Relative Humdity
Modeling Relative Humdity
Flight Height (m)
Relative Humdity (%)
Altitude (m)
TIME (GMT)

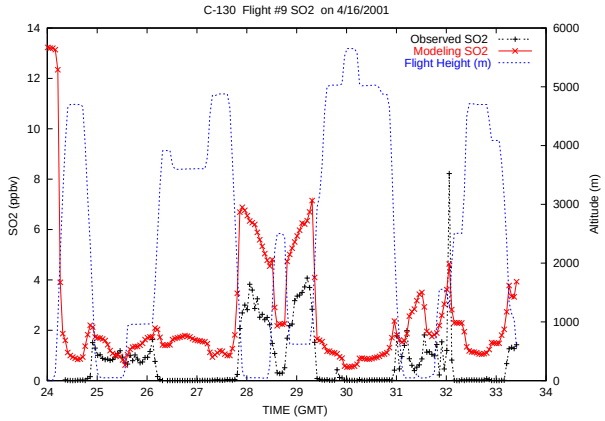

C-130 Flight #9 O3 on 4/16/2001
Observed O3
Modeling O3
Flight Height (m)
O3 (ppbv)
Altitude (m)
TIME (GMT)

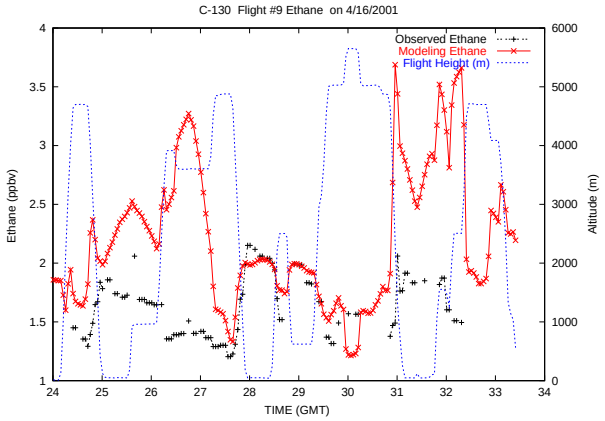

C-130 Flight #9 CO on 4/16/2001
Modeling CO
Flight Height (m)
CO (ppbv)
Altitude (m)
TIME (GMT)

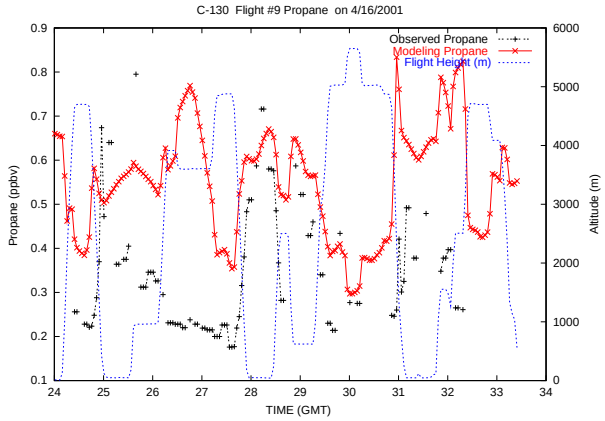

C-130 Flight #9 NO on 4/16/2001
Modeling NO
Flight Height (m)
NO (ppbv)
Altitude (m)
TIME (GMT)

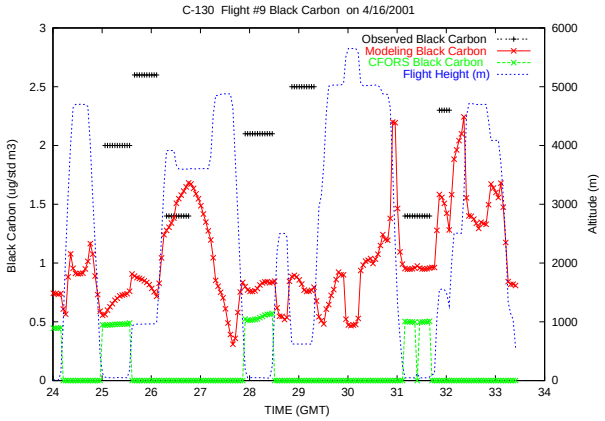

C-130 Flight #9 NO2 on 4/16/2001
Modeling NO2
Flight Height (m)
NO2 (ppbv)
Altitude (m)
TIME (GMT)

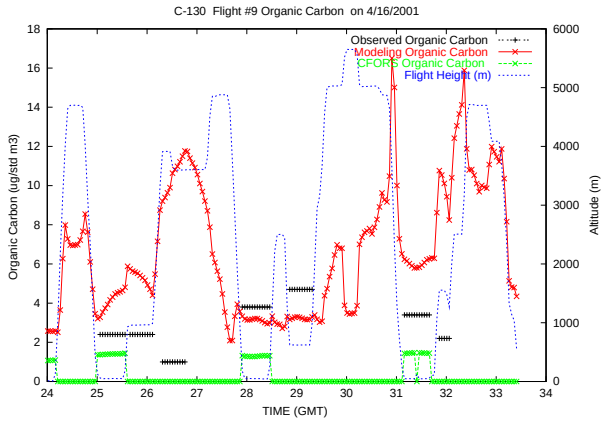

C-130 Flight #9 NOy on 4/16/2001
Modeling NOy
Flight Height (m)
NOy (ppbv)
Altitude (m)
TIME (GMT)

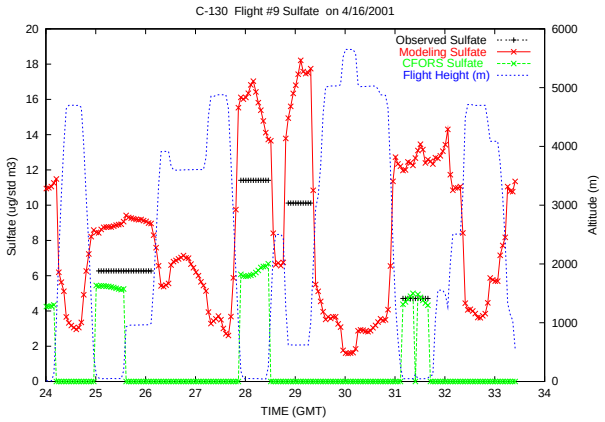

C-130 Flight #9 SO2 on 4/16/2001
Observed SO2
Modeling SO2
Flight Height (m)
SO2 (ppbv)
Altitude (m)
TIME (GMT)

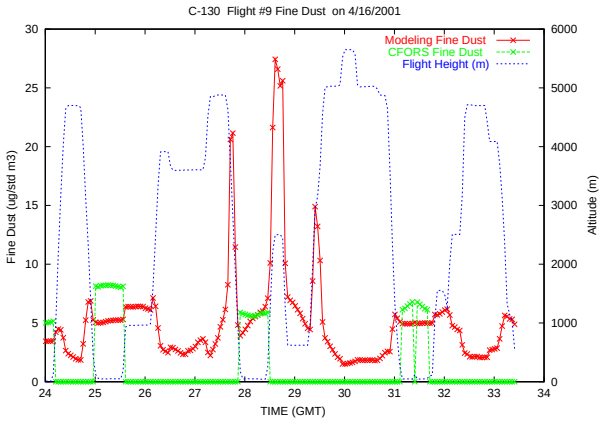

C-130 Flight #9 Ethane on 4/16/2001
Observed Ethane
Modeling Ethane
Flight Height (m)
Ethane (ppbv)
Altitude (m)
TIME (GMT)

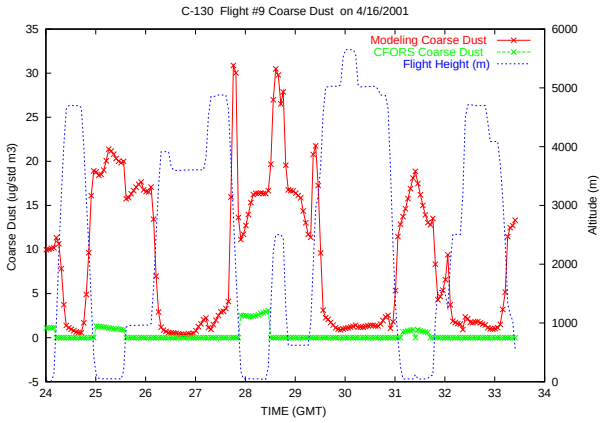

C-130 Flight #9 Propane on 4/16/2001
Observed Propane
Modeling Propane
Flight Height (m)
Propane (ppbv)
Altitude (m)
TIME (GMT)

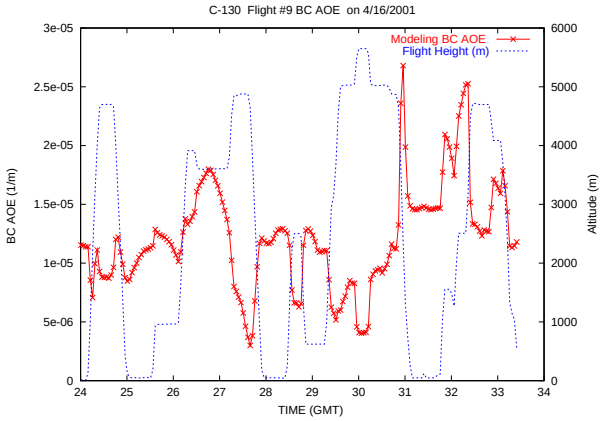

C-130 Flight #9 Black Carbon on 4/16/2001
Observed Black Carbon
Modeling Black Carbon
CFORS Black Carbon
Flight Height (m)
Black Carbon (ug/std m3)
Altitude (m)
TIME (GMT)

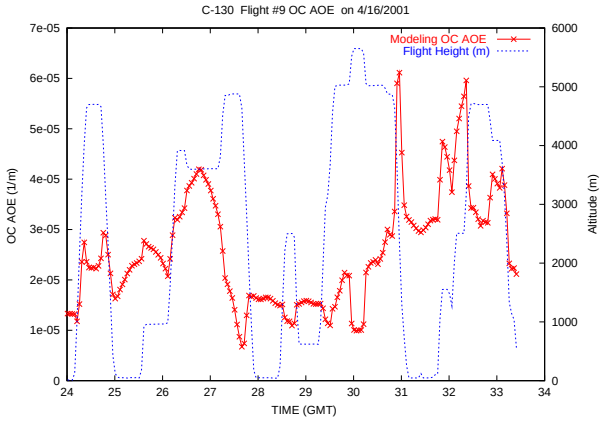

C-130 Flight #9 Organic Carbon on 4/16/2001
Observed Organic Carbon
Modeling Organic Carbon
CFORS Organic Carbon
Flight Height (m)
Organic Carbon (ug/std m3)
Altitude (m)
TIME (GMT)

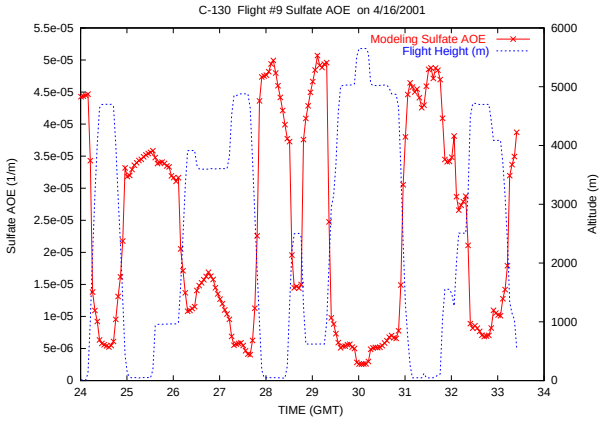

C-130 Flight #9 Sulfate on 4/16/2001
Observed Sulfate
Modeling Sulfate
CFORS Sulfate
Flight Height (m)
Sulfate (ug/std m3)
Altitude (m)
TIME (GMT)

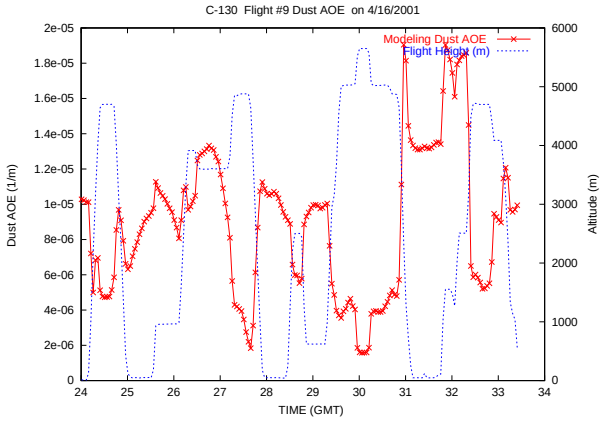

C-130 Flight #9 Fine Dust on 4/16/2001
Modeling Fine Dust
CFORS Fine Dust
Flight Height (m)
Fine Dust (ug/std m3)
Altitude (m)
TIME (GMT)

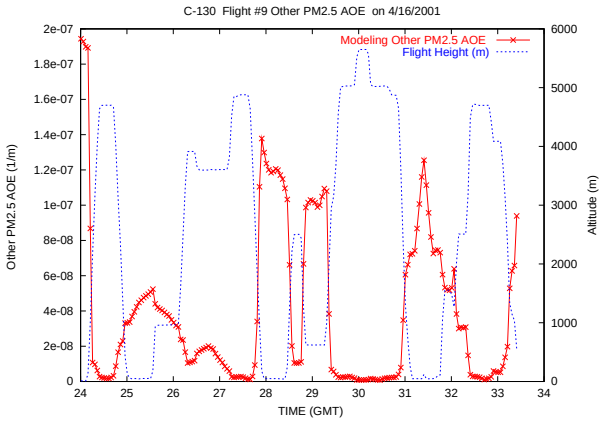

C-130 Flight #9 Coarse Dust on 4/16/2001
Modeling Coarse Dust
CFORS Coarse Dust
Flight Height (m)
Coarse Dust (ug/std m3)
Altitude (m)
TIME (GMT)

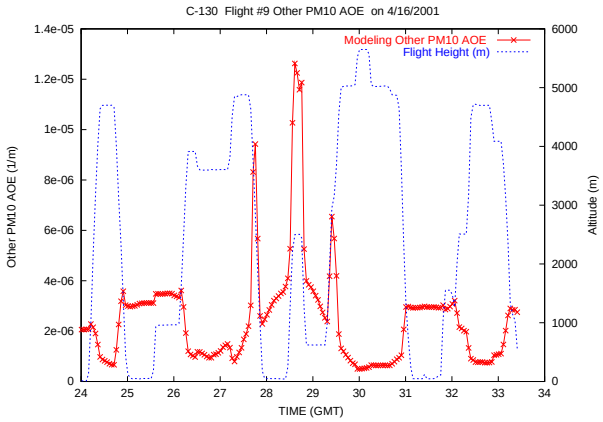

C-130 Flight #9 BC AOE on 4/16/2001
Modeling BC AOE
Flight Height (m)
BC AOE (1/m)
Altitude (m)
TIME (GMT)

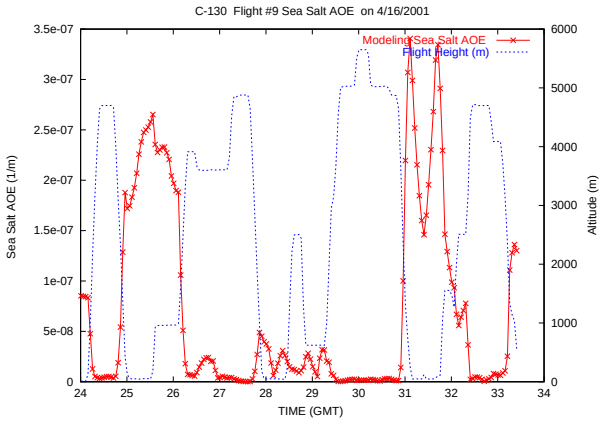

C-130 Flight #9 OC AOE on 4/16/2001
Modeling OC AOE
Flight Height (m)
OC AOE (1/m)
Altitude (m)
TIME (GMT)

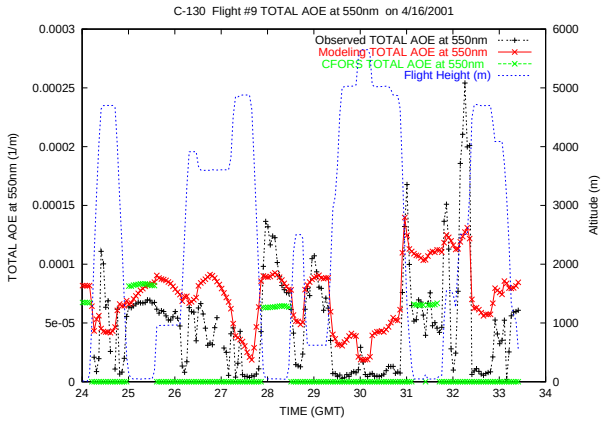

C-130 Flight #9 Sulfate AOE on 4/16/2001
Modeling Sulfate AOE
Flight Height (m)
Sulfate AOE (1/m)
Altitude (m)
TIME (GMT)

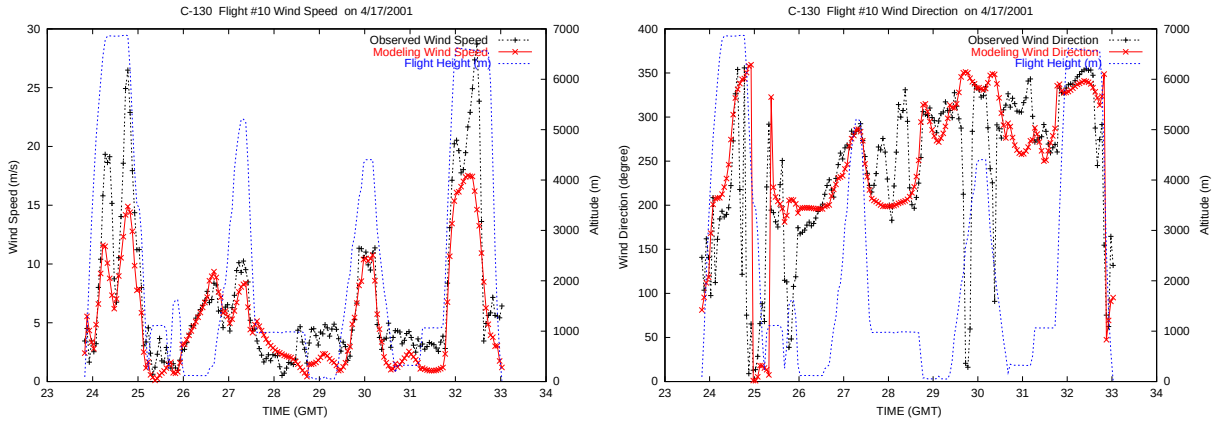

C-130 Flight #9 Dust AOE on 4/16/2001
Modeling Dust AOE
Flight Height (m)
Dust AOE (1/m)
Altitude (m)
TIME (GMT)


C-130 Flight #9 Other PM2.5 AOE on 4/16/2001
Modeling Other PM2.5 AOE
Flight Height (m)
Other PM2.5 AOE (1/m)
Altitude (m)
TIME (GMT)

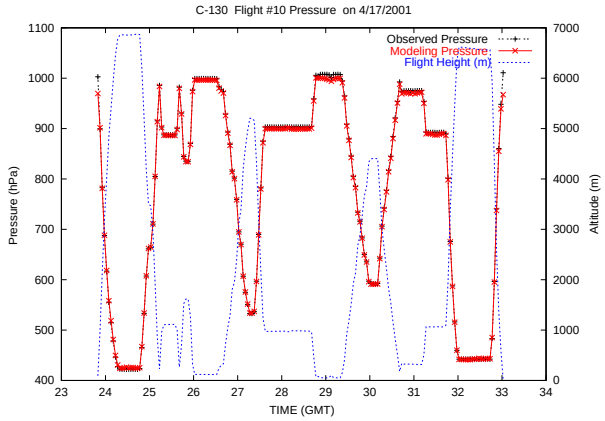

C-130 Flight #9 Other PM10 AOE on 4/16/2001
Modeling Other PM10 AOE
Flight Height (m)
Other PM10 AOE (1/m)
Altitude (m)
TIME (GMT)

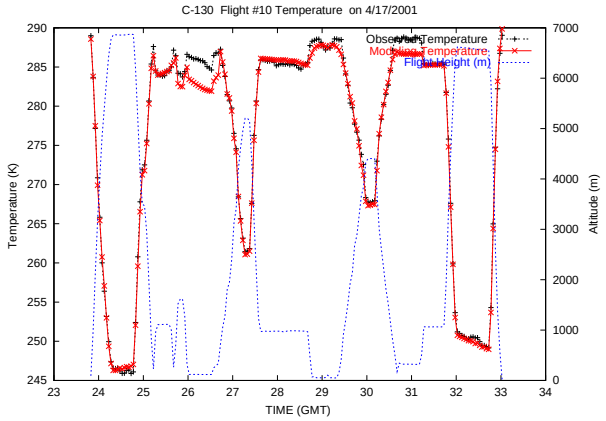

C-130 Flight #9 Sea Salt AOE on 4/16/2001
Modeling Sea Salt AOE
Flight Height (m)
Sea Salt AOE (1/m)
Altitude (m)
TIME (GMT)
3.5e-07
3e-07
2.5e-07
2e-07
1.5e-07
1e-07
5e-08
0
6000
5000
4000
3000
2000
1000
0
24
25
26
27
28
29
30
31
32
33
34

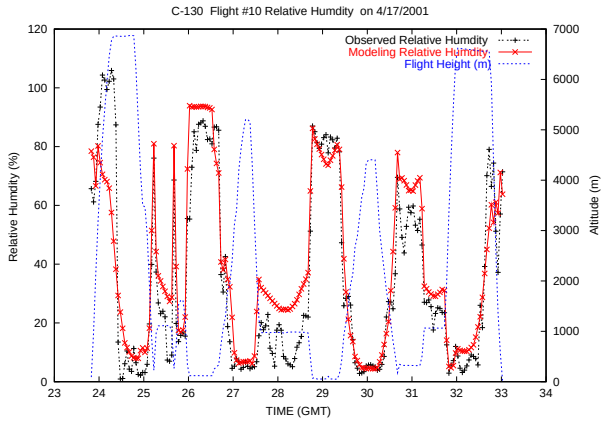

C-130 Flight #9 TOTAL AOE at 550nm on 4/16/2001
Observed TOTAL AOE at 550nm
Modeling TOTAL AOE at 550nm
CFORS TOTAL AOE at 550nm
Flight Height (m)
TOTAL AOE at 550nm (1/m)
Altitude (m)
TIME (GMT)
0.0003
0.00025
0.0002
0.00015
0.0001
5e-05
0
6000
5000
4000
3000
2000
1000
0
24
25
26
27
28
29
30
31
32
33
34

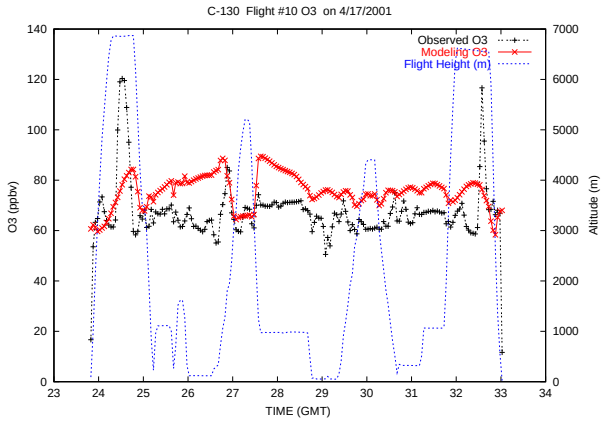

C-130 Flight #10 Wind Speed on 4/17/2001
Observed Wind Speed
Modeling Wind Speed
Flight Height (m)
Wind Speed (m/s)
Altitude (m)
TIME (GMT)

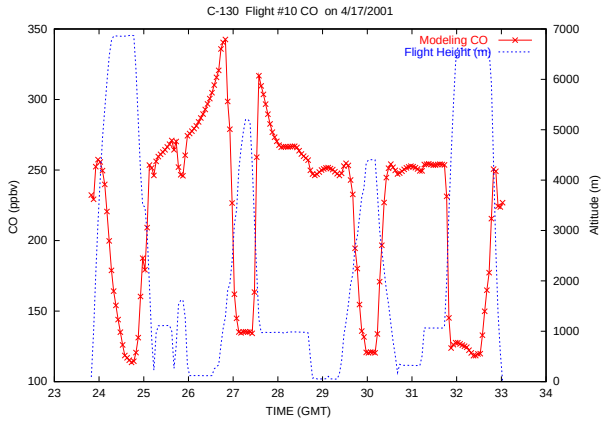

C-130 Flight #10 Wind Direction on 4/17/2001
Observed Wind Direction
Modeling Wind Direction
Flight Height (m)
Wind Direction (degree)
Altitude (m)
TIME (GMT)

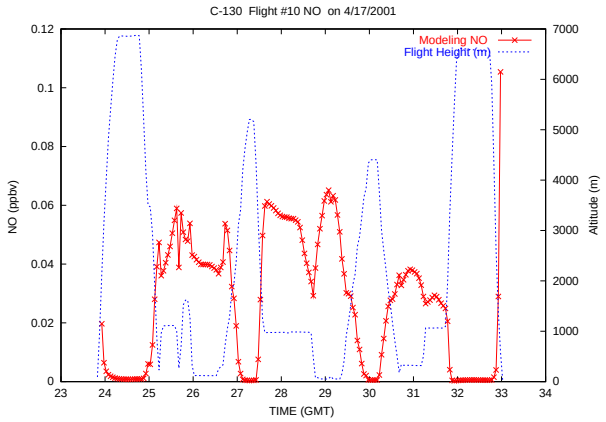

C-130 Flight #10 Pressure on 4/17/2001
Observed Pressure
Modeling Pressure
Flight Height (m)
Pressure (hPa)
Altitude (m)
TIME (GMT)

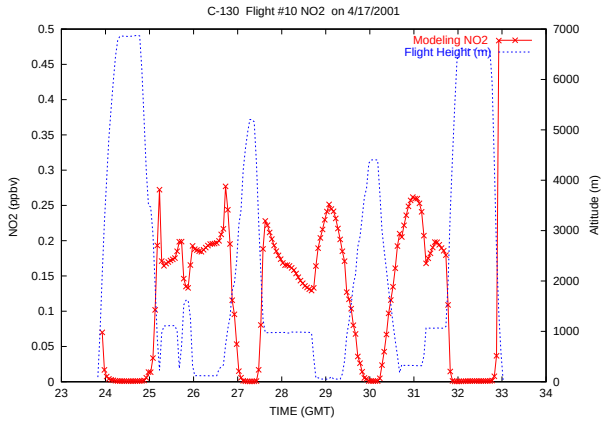

C-130 Flight #10 Temperature on 4/17/2001
Observed Temperature
Modeling Temperature
Flight Height (m)
Temperature (K)
Altitude (m)
TIME (GMT)

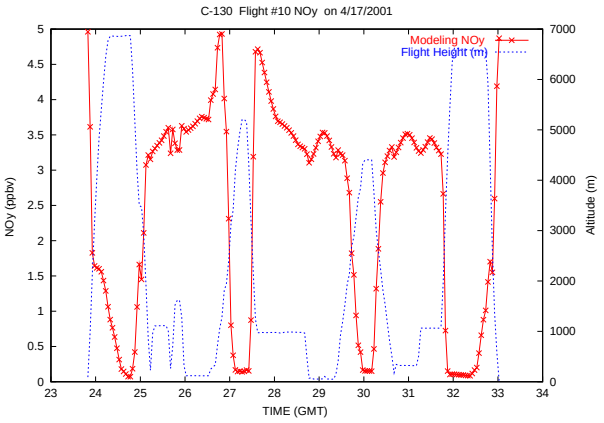

C-130 Flight #10 Relative Humdity on 4/17/2001
Observed Relative Humdity
Modeling Relative Humdity
Flight Height (m)
Relative Humdity (%)
Altitude (m)
TIME (GMT)

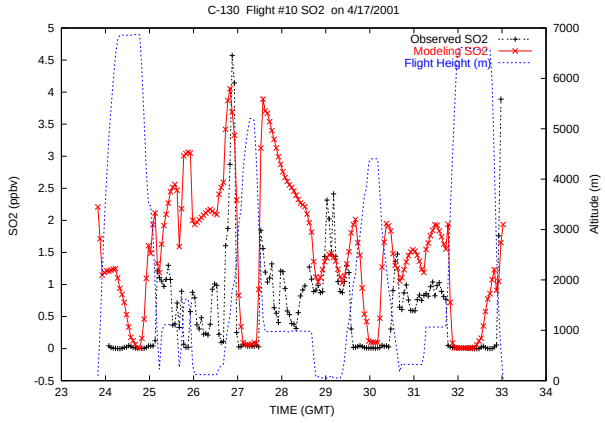

C-130 Flight #10 O3 on 4/17/2001
Observed O3
Modeling O3
Flight Height (m)
O3 (ppbv)
Altitude (m)
TIME (GMT)

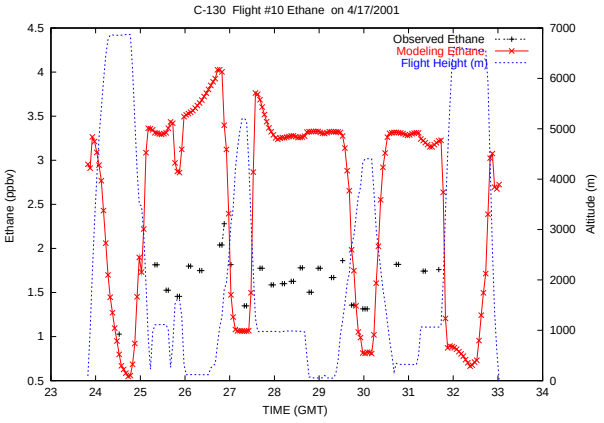

C-130 Flight #10 CO on 4/17/2001
Modeling CO
Flight Height (m)
CO (ppbv)
Altitude (m)
TIME (GMT)

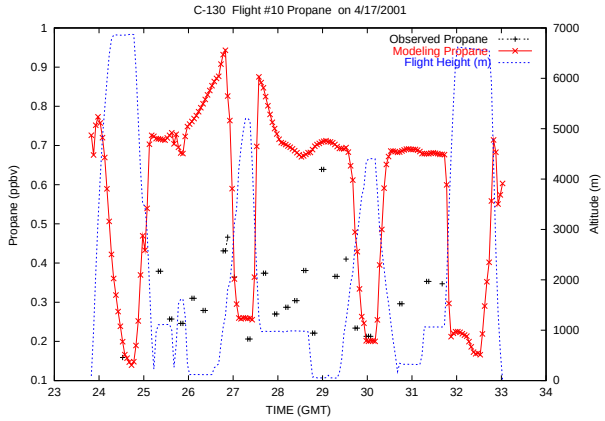

C-130 Flight #10 NO on 4/17/2001
Modeling NO
Flight Height (m)
NO (ppbv)
Altitude (m)
TIME (GMT)

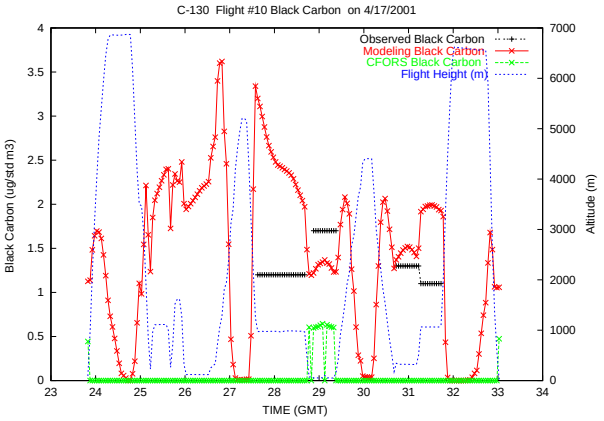

C-130 Flight #10 NO2 on 4/17/2001
Modeling NO2
Flight Height (m)
NO2 (ppbv)
Altitude (m)
TIME (GMT)

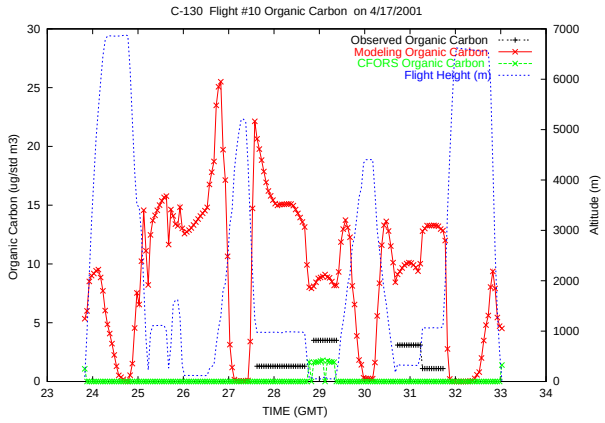

C-130 Flight #10 NOy on 4/17/2001
Modeling NOy
Flight Height (m)
NOy (ppbv)
Altitude (m)
TIME (GMT)

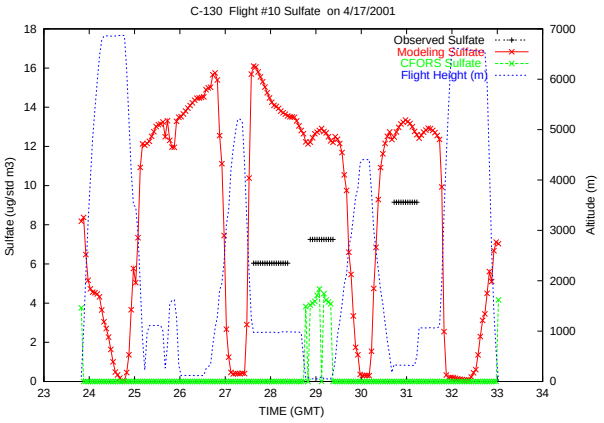

C-130 Flight #10 SO2 on 4/17/2001
Observed SO2
Modeling SO2
Flight Height (m)
SO2 (ppbv)
Altitude (m)
TIME (GMT)

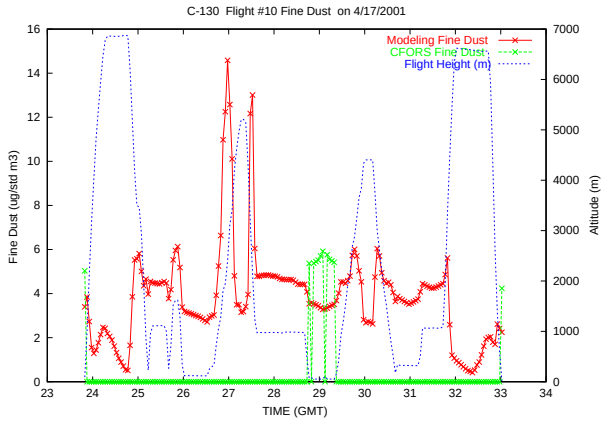

C-130 Flight #10 Ethane on 4/17/2001
Observed Ethane
Modeling Ethane
Flight Height (m)
Ethane (ppbv)
Altitude (m)
TIME (GMT)

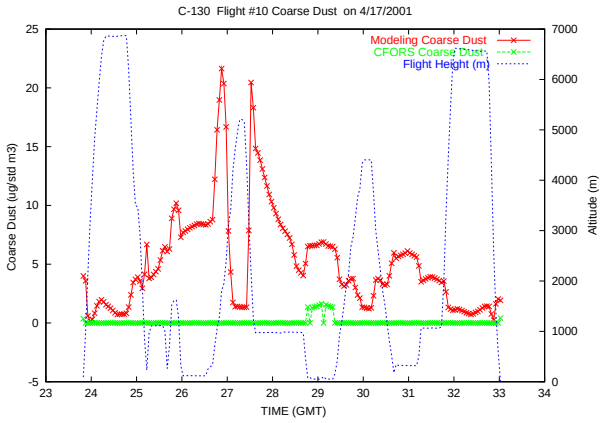

C-130 Flight #10 Propane on 4/17/2001
Observed Propane
Modeling Propane
Flight Height (m)
Propane (ppbv)
Altitude (m)
TIME (GMT)

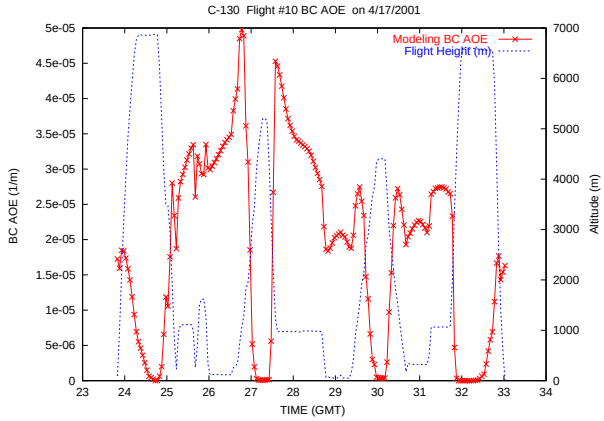

C-130 Flight #10 Black Carbon on 4/17/2001
Observed Black Carbon
Modeling Black Carbon
CFORS Black Carbon
Flight Height (m)
Black Carbon (ug/std m3)
Altitude (m)
TIME (GMT)

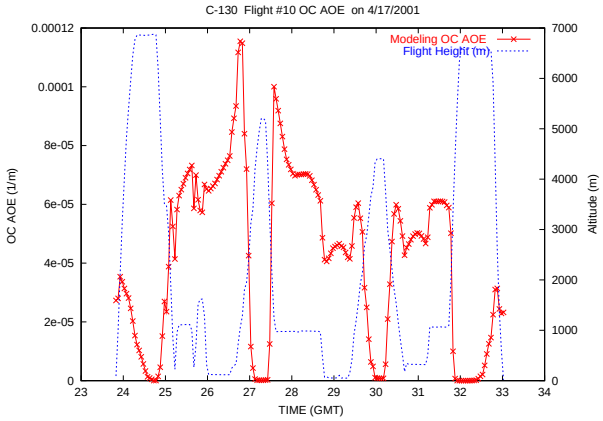

C-130 Flight #10 Organic Carbon on 4/17/2001
Observed Organic Carbon
Modeling Organic Carbon
CFORS Organic Carbon
Flight Height (m)
Organic Carbon (ug/std m3)
Altitude (m)
TIME (GMT)

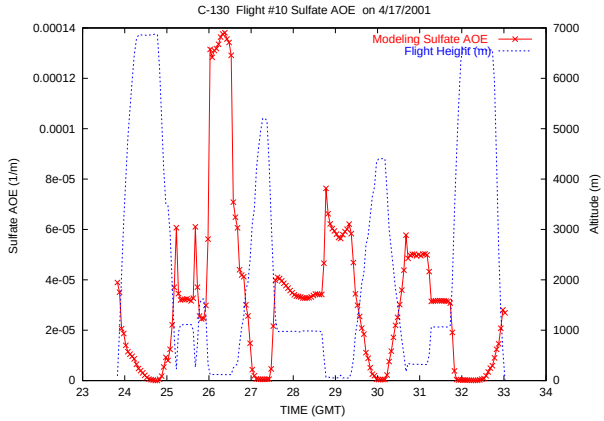

C-130 Flight #10 Sulfate on 4/17/2001
Observed Sulfate
Modeling Sulfate
CFORS Sulfate
Flight Height (m)
Sulfate (ug/std m3)
Altitude (m)
TIME (GMT)

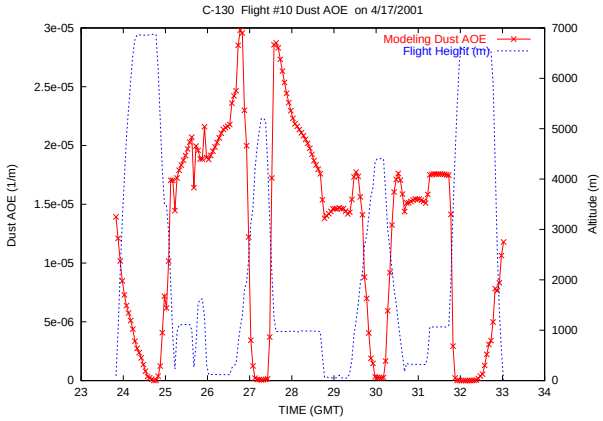

C-130 Flight #10 Fine Dust on 4/17/2001
Modeling Fine Dust
CFORS Fine Dust
Flight Height (m)
Fine Dust (ug/std m3)
Altitude (m)
TIME (GMT)

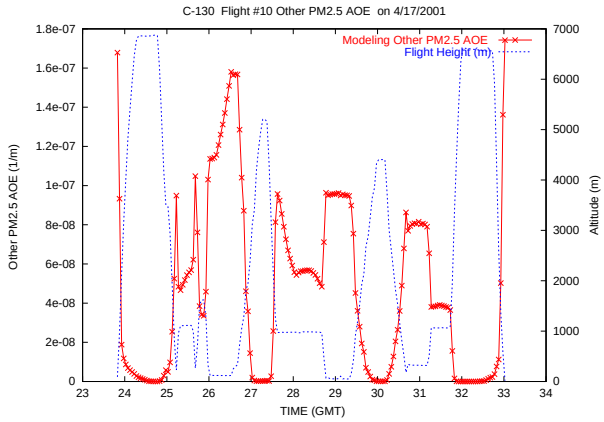

C-130 Flight #10 Coarse Dust on 4/17/2001
Modeling Coarse Dust
CFORS Coarse Dust
Flight Height (m)
Coarse Dust (ug/std m3)
Altitude (m)
TIME (GMT)

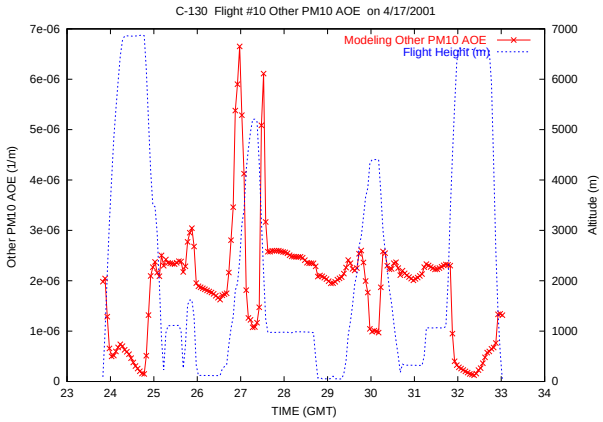

C-130 Flight #10 BC AOE on 4/17/2001
Modeling BC AOE
Flight Height (m)
BC AOE (1/m)
Altitude (m)
TIME (GMT)

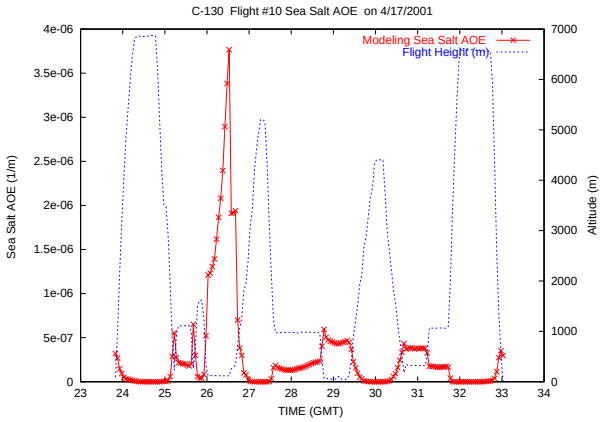

C-130 Flight #10 OC AOE on 4/17/2001
Modeling OC AOE
Flight Height (m)
OC AOE (1/m)
Altitude (m)
TIME (GMT)

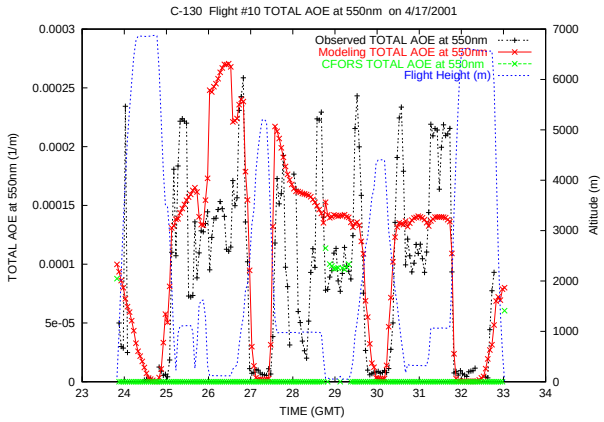

C-130 Flight #10 Sulfate AOE on 4/17/2001
Modeling Sulfate AOE
Flight Height (m)
Sulfate AOE (1/m)
Altitude (m)
TIME (GMT)

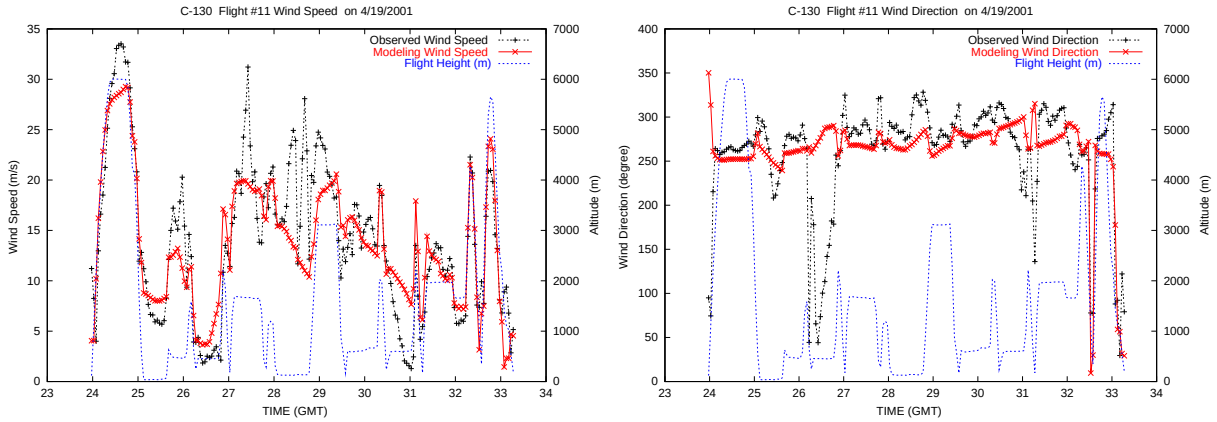

C-130 Flight #10 Dust AOE on 4/17/2001
Modeling Dust AOE
Flight Height (m)
Dust AOE (1/m)
Altitude (m)
TIME (GMT)


C-130 Flight #10 Other PM2.5 AOE on 4/17/2001
Modeling Other PM2.5 AOE
Flight Height (m)
Other PM2.5 AOE (1/m)
Altitude (m)
TIME (GMT)

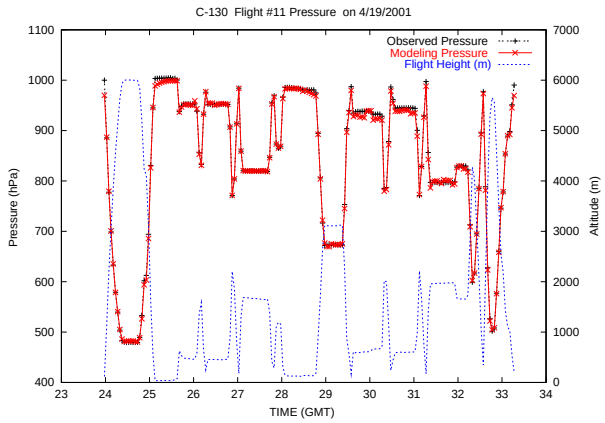

C-130 Flight #10 Other PM10 AOE on 4/17/2001
Modeling Other PM10 AOE
Flight Height (m)
Other PM10 AOE (1/m)
Altitude (m)
TIME (GMT)

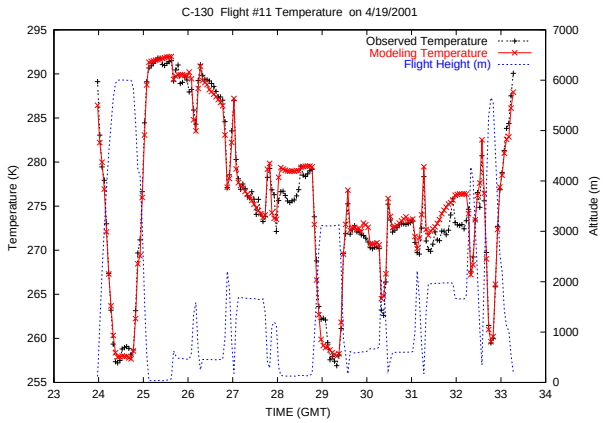

C-130 Flight #10 Sea Salt AOE on 4/17/2001
Modeling Sea Salt AOE
Flight Height (m)
Sea Salt AOE (1/m)
Altitude (m)
TIME (GMT)

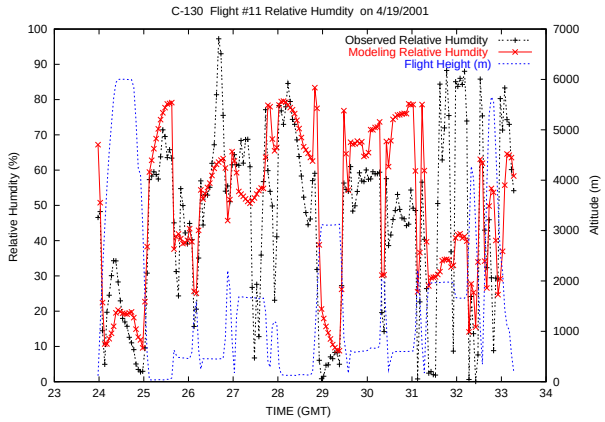

C-130 Flight #10 TOTAL AOE at 550nm on 4/17/2001
Observed TOTAL AOE at 550nm
Modeling TOTAL AOE at 550nm
CFORS TOTAL AOE at 550nm
Flight Height (m)
TOTAL AOE at 550nm (1/m)
Altitude (m)
TIME (GMT)

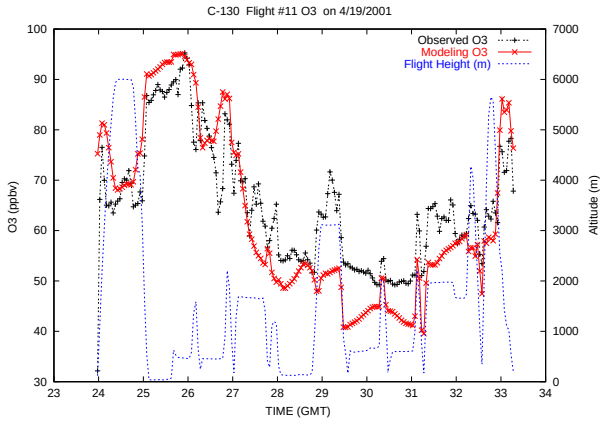

C-130 Flight #11 Wind Speed on 4/19/2001
Observed Wind Speed
Modeling Wind Speed
Flight Height (m)
Wind Speed (m/s)
Altitude (m)
TIME (GMT)

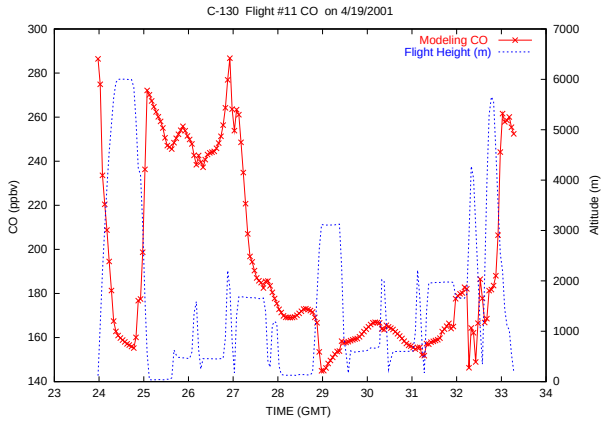

C-130 Flight #11 Wind Direction on 4/19/2001
Observed Wind Direction
Modeling Wind Direction
Flight Height (m)
Wind Direction (degree)
Altitude (m)
TIME (GMT)

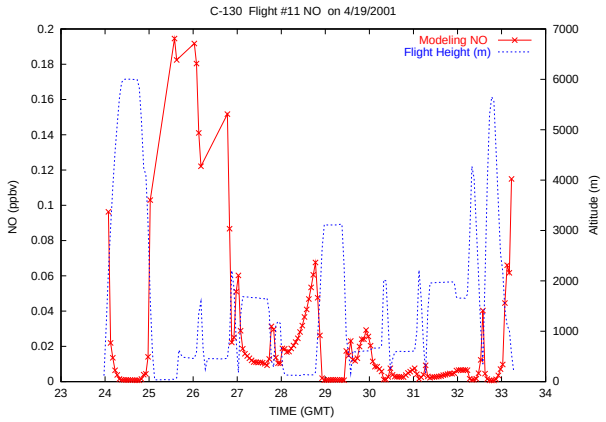

C-130 Flight #11 Pressure on 4/19/2001
Observed Pressure
Modeling Pressure
Flight Height (m)
Pressure (hPa)
Altitude (m)
TIME (GMT)

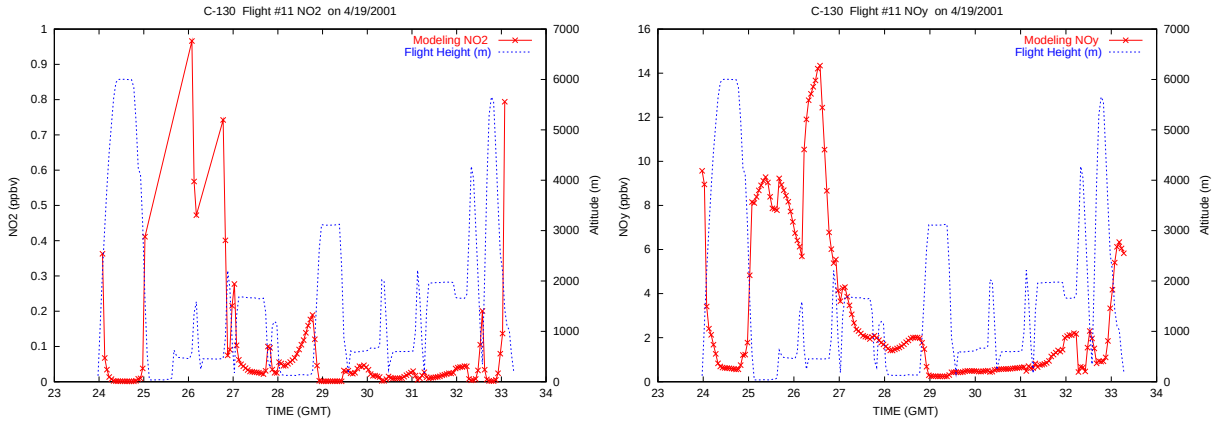

C-130 Flight #11 Temperature on 4/19/2001
Observed Temperature
Modeling Temperature
Flight Height (m)
Temperature (K)
Altitude (m)
TIME (GMT)


C-130 Flight #11 Relative Humdity on 4/19/2001
Observed Relative Humdity
Modeling Relative Humdity
Flight Height (m)
Relative Humdity (%)
Altitude (m)
TIME (GMT)

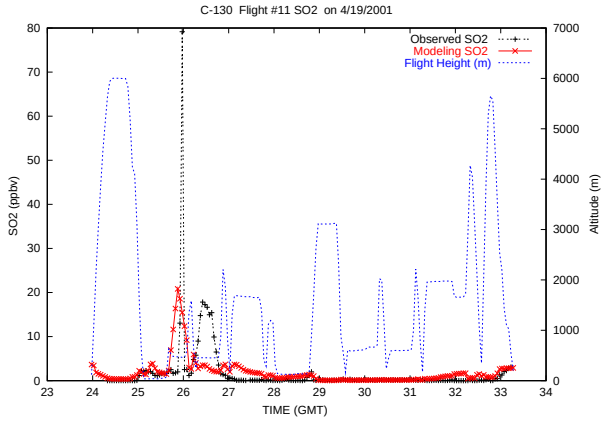

C-130 Flight #11 O3 on 4/19/2001
Observed O3
Modeling O3
Flight Height (m)
O3 (ppbv)
Altitude (m)
TIME (GMT)

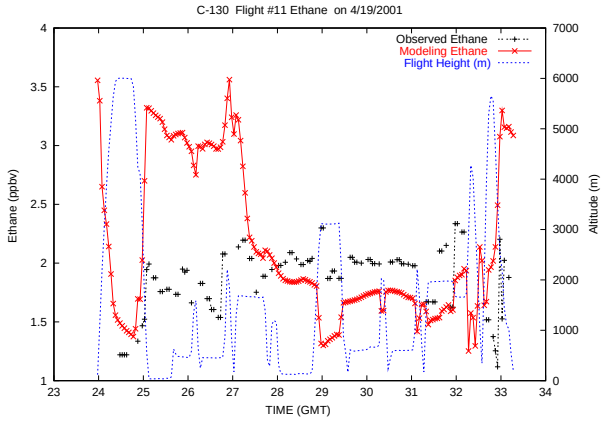

C-130 Flight #11 CO on 4/19/2001
Modeling CO
Flight Height (m)
CO (ppbv)
Altitude (m)
TIME (GMT)

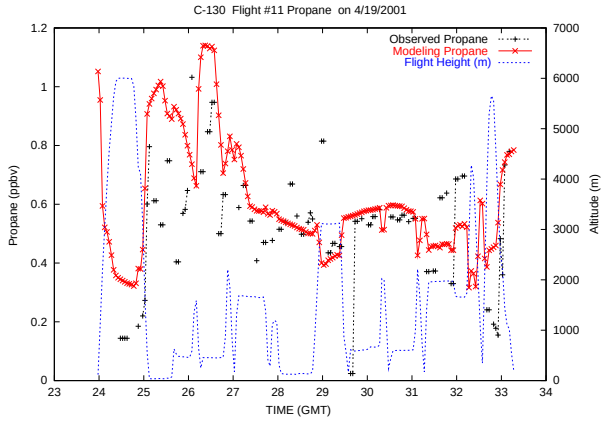

C-130 Flight #11 NO on 4/19/2001
Modeling NO
Flight Height (m)
NO (ppbv)
Altitude (m)
TIME (GMT)

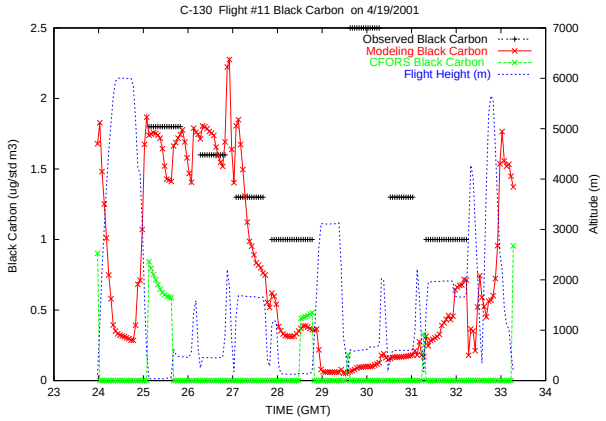

C-130 Flight #11 NO2 on 4/19/2001
Modeling NO2
Flight Height (m)
NO2 (ppbv)
Altitude (m)
TIME (GMT)

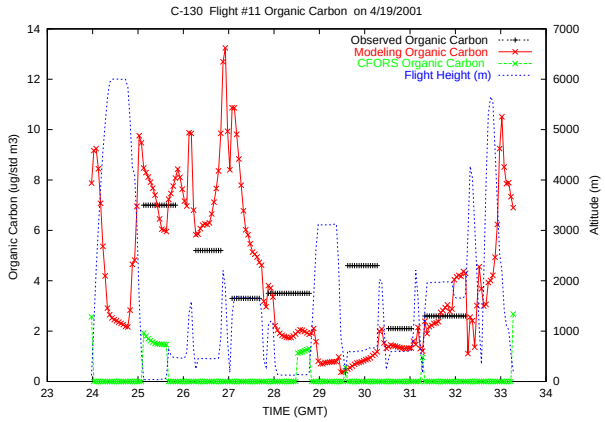

C-130 Flight #11 NOy on 4/19/2001
Modeling NOy
Flight Height (m)
NOy (ppbv)
Altitude (m)
TIME (GMT)

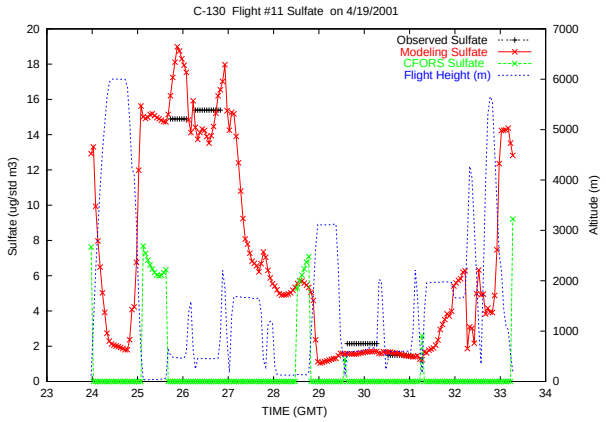

C-130 Flight #11 SO2 on 4/19/2001
Observed SO2
Modeling SO2
Flight Height (m)
SO2 (ppbv)
Altitude (m)
TIME (GMT)

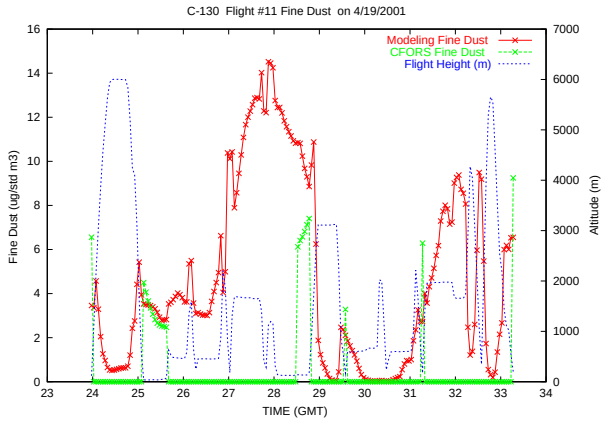

C-130 Flight #11 Ethane on 4/19/2001
Observed Ethane
Modeling Ethane
Flight Height (m)
Ethane (ppbv)
Altitude (m)
TIME (GMT)

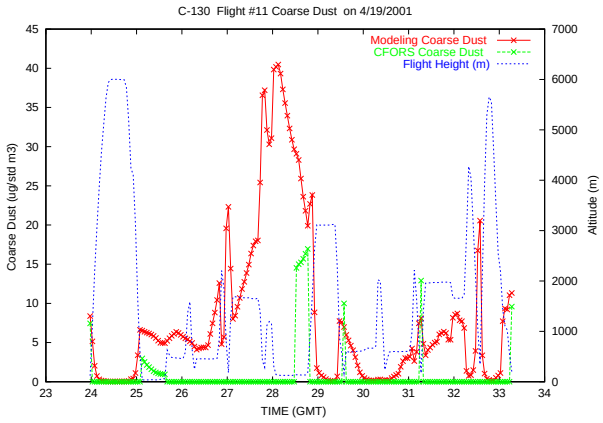

C-130 Flight #11 Propane on 4/19/2001
Observed Propane
Modeling Propane
Flight Height (m)
Propane (ppbv)
Altitude (m)
TIME (GMT)

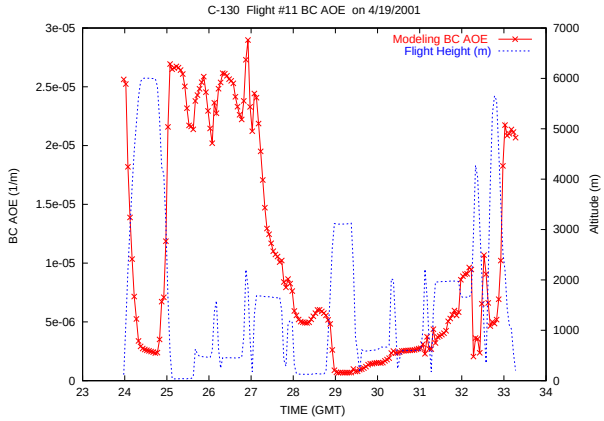

C-130 Flight #11 Black Carbon on 4/19/2001
Observed Black Carbon
Modeling Black Carbon
CFORS Black Carbon
Flight Height (m)
Black Carbon (ug/std m3)
Altitude (m)
TIME (GMT)

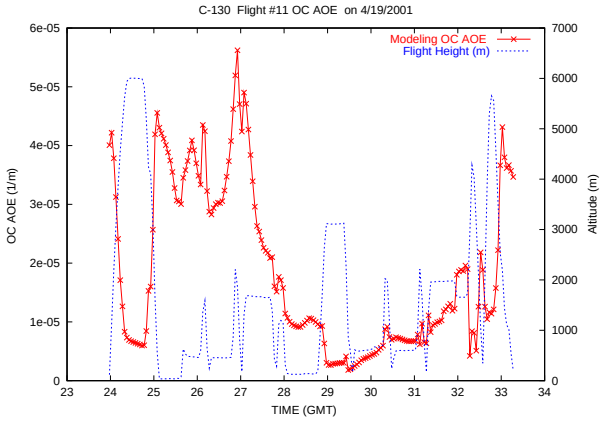

C-130 Flight #11 Organic Carbon on 4/19/2001
Observed Organic Carbon
Modeling Organic Carbon
CFORS Organic Carbon
Flight Height (m)
Organic Carbon (ug/std m3)
Altitude (m)
TIME (GMT)

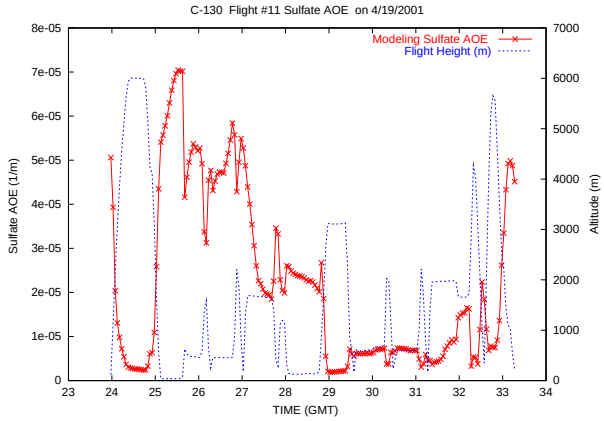

C-130 Flight #11 Sulfate on 4/19/2001
Observed Sulfate
Modeling Sulfate
CFORS Sulfate
Flight Height (m)
Sulfate (ug/std m3)
Altitude (m)
TIME (GMT)

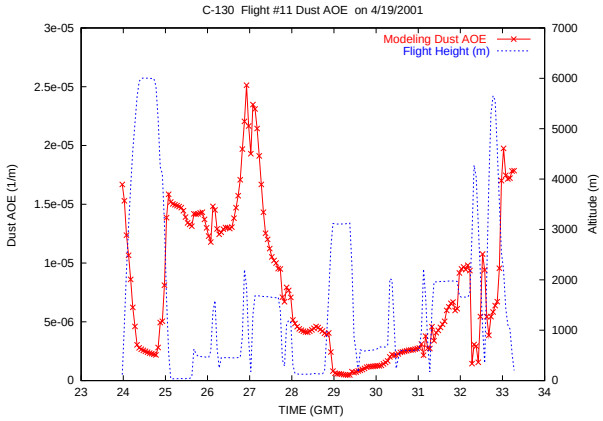

C-130 Flight #11 Fine Dust on 4/19/2001
Modeling Fine Dust
CFORS Fine Dust
Flight Height (m)
Fine Dust (ug/std m3)
Altitude (m)
TIME (GMT)

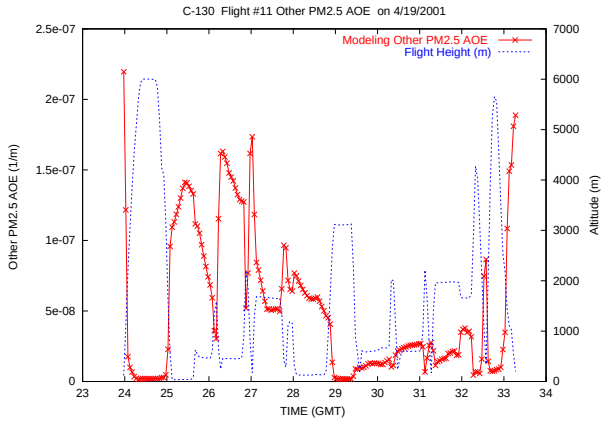

C-130 Flight #11 Coarse Dust on 4/19/2001
Modeling Coarse Dust
CFORS Coarse Dust
Flight Height (m)
Coarse Dust (ug/std m3)
Altitude (m)
TIME (GMT)

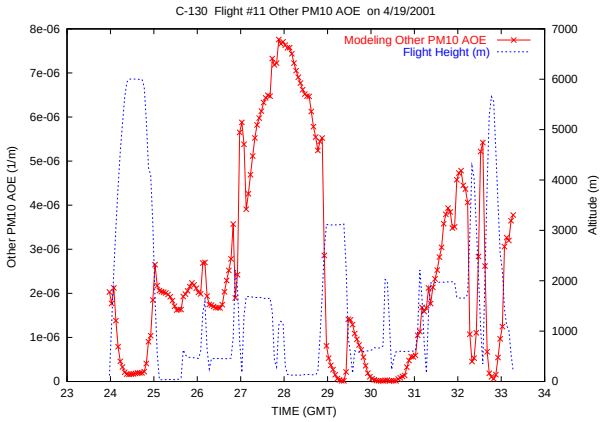

C-130 Flight #11 BC AOE on 4/19/2001
Modeling BC AOE
Flight Height (m)
BC AOE (1/m)
Altitude (m)
TIME (GMT)

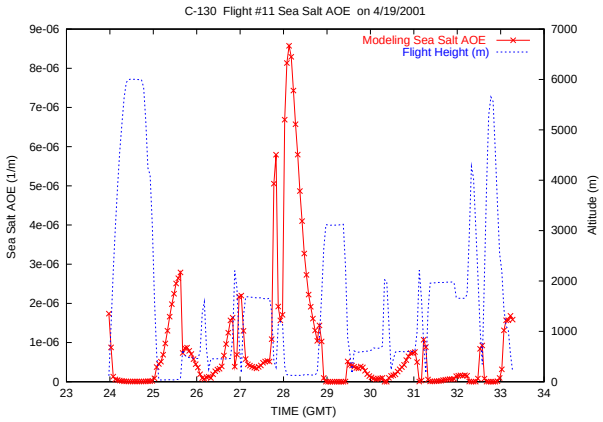

C-130 Flight #11 OC AOE on 4/19/2001
Modeling OC AOE
Flight Height (m)
OC AOE (1/m)
Altitude (m)
TIME (GMT)

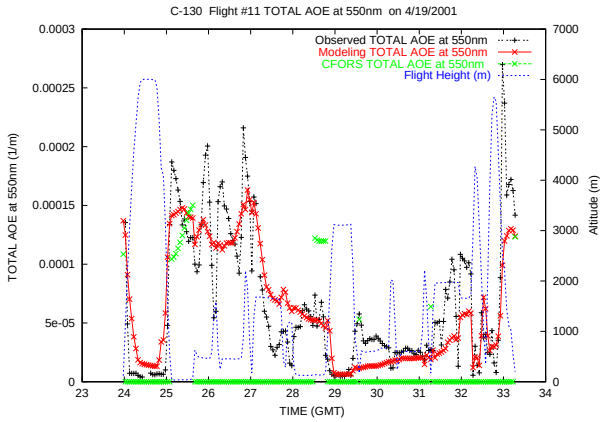

C-130 Flight #11 Sulfate AOE on 4/19/2001
Modeling Sulfate AOE
Flight Height (m)
Sulfate AOE (1/m)
Altitude (m)
TIME (GMT)

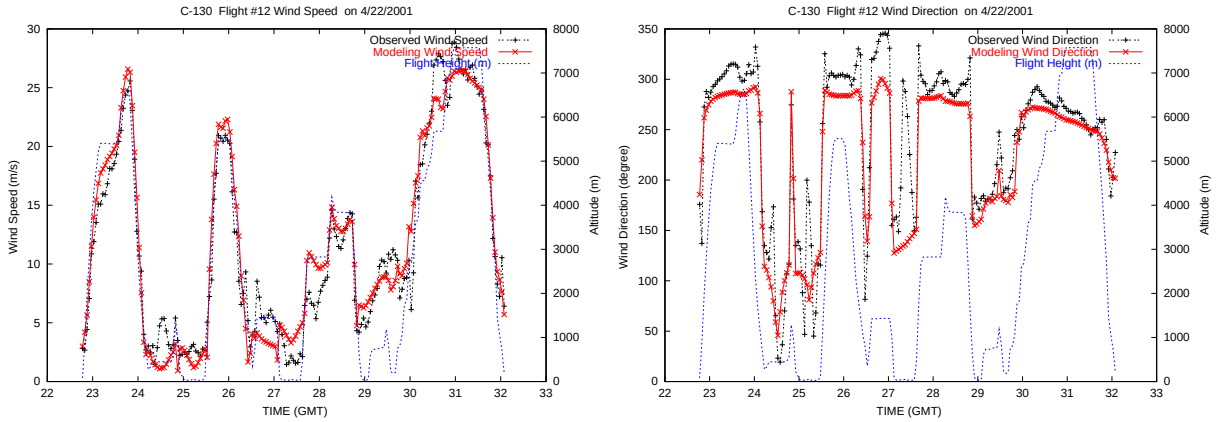

C-130 Flight #11 Dust AOE on 4/19/2001
Modeling Dust AOE
Flight Height (m)
Dust AOE (1/m)
Altitude (m)
TIME (GMT)


C-130 Flight #11 Other PM2.5 AOE on 4/19/2001
Modeling Other PM2.5 AOE
Flight Height (m)
Other PM2.5 AOE (1/m)
Altitude (m)
TIME (GMT)

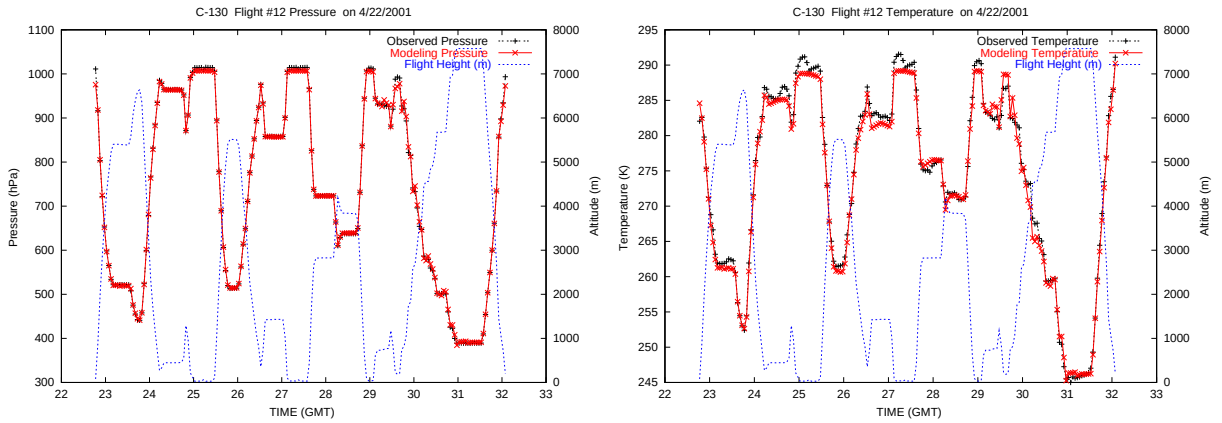

C-130 Flight #11 Other PM10 AOE on 4/19/2001
Modeling Other PM10 AOE
Flight Height (m)
Other PM10 AOE (1/m)
Altitude (m)
TIME (GMT)


C-130 Flight #11 Sea Salt AOE on 4/19/2001
Modeling Sea Salt AOE
Flight Height (m)
Sea Salt AOE (1/m)
Altitude (m)
TIME (GMT)

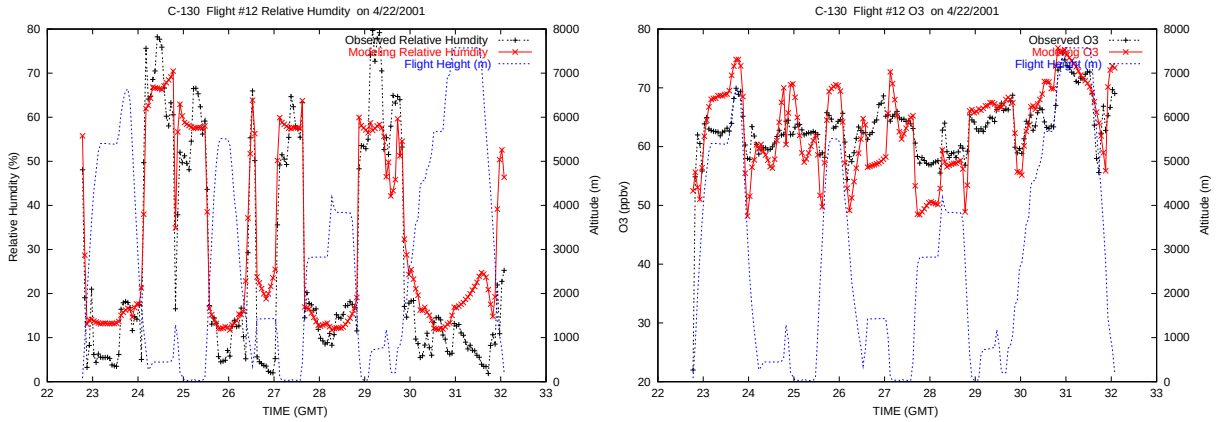

C-130 Flight #11 TOTAL AOE at 550nm on 4/19/2001
Observed TOTAL AOE at 550nm
Modeling TOTAL AOE at 550nm
CFORS TOTAL AOE at 550nm
Flight Height (m)
TOTAL AOE at 550nm (1/m)
Altitude (m)
TIME (GMT)


C-130 Flight #12 Wind Speed on 4/22/2001
Observed Wind Speed
Modeling Wind Speed
Flight Height (m)
Wind Speed (m/s)
Altitude (m)
TIME (GMT)

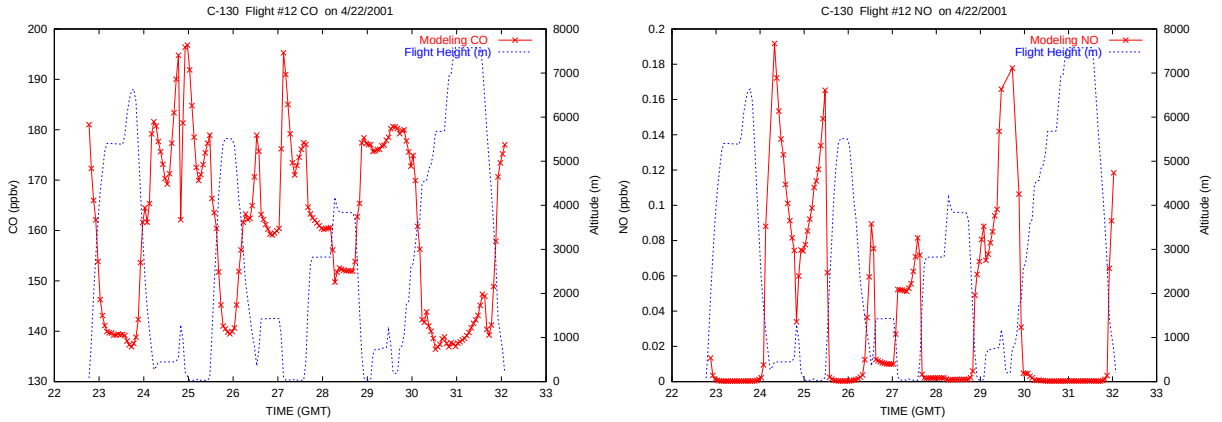

C-130 Flight #12 Wind Direction on 4/22/2001
Observed Wind Direction
Modeling Wind Direction
Flight Height (m)
Wind Direction (degree)
Altitude (m)
TIME (GMT)


C-130 Flight #12 Pressure on 4/22/2001
Observed Pressure
Modeling Pressure
Flight Height (m)
Pressure (hPa)
Altitude (m)
TIME (GMT)

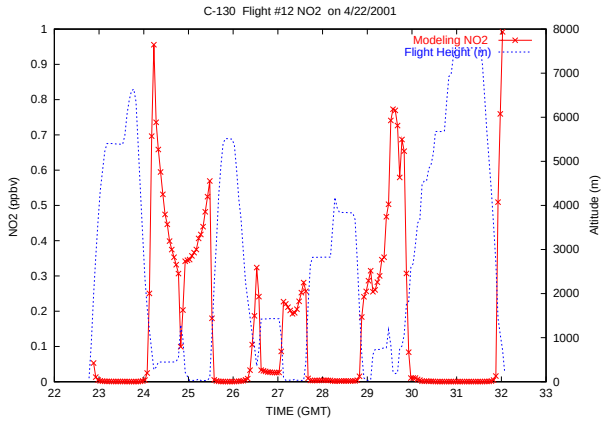

C-130 Flight #12 Temperature on 4/22/2001
Observed Temperature
Modeling Temperature
Flight Height (m)
Temperature (K)
Altitude (m)
TIME (GMT)

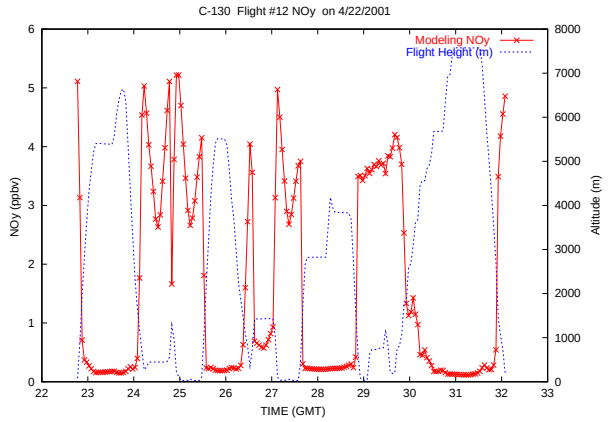

C-130 Flight #12 Relative Humdity on 4/22/2001
Observed Relative Humdity
Modeling Relative Humdity
Flight Height (m)
Relative Humdity (%)
Altitude (m)
TIME (GMT)

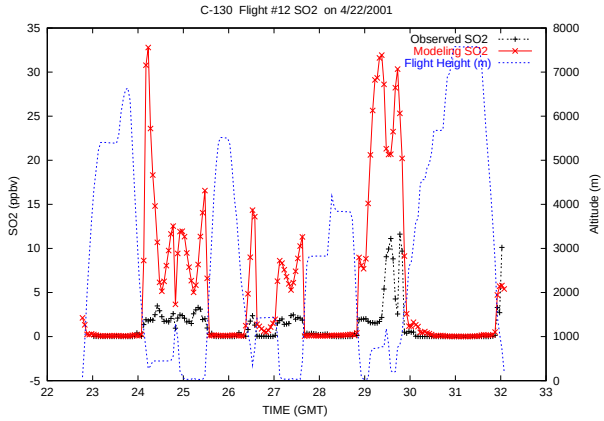

C-130 Flight #12 O3 on 4/22/2001
Observed O3
Modeling O3
Flight Height (m)
O3 (ppbv)
Altitude (m)
TIME (GMT)

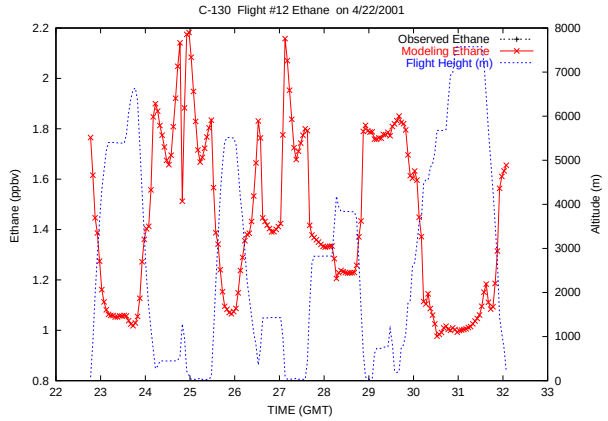

C-130 Flight #12 CO on 4/22/2001
Modeling CO
Flight Height (m)
CO (ppbv)
Altitude (m)
TIME (GMT)

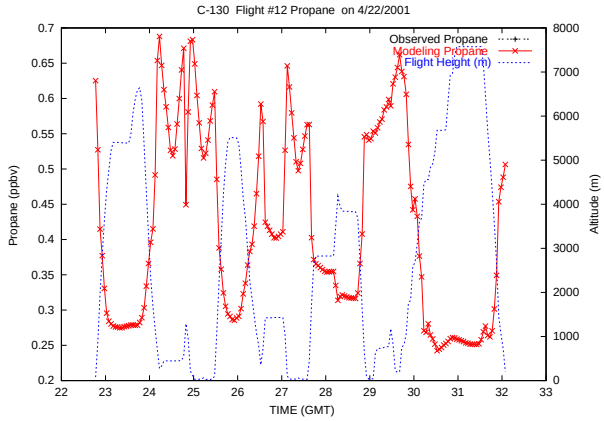

C-130 Flight #12 NO on 4/22/2001
Modeling NO
Flight Height (m)
NO (ppbv)
Altitude (m)
TIME (GMT)

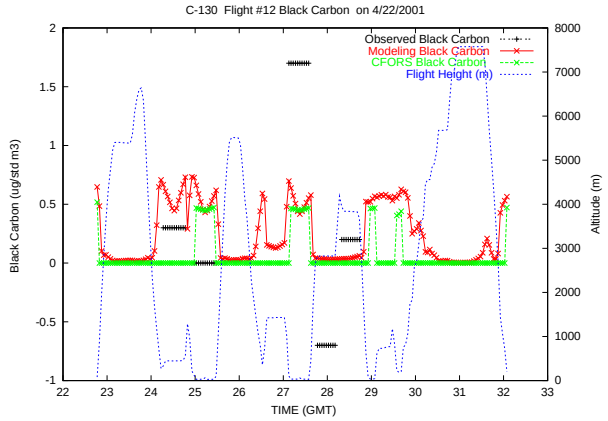

C-130 Flight #12 NO2 on 4/22/2001
Modeling NO2
Flight Height (m)
NO2 (ppbv)
Altitude (m)
TIME (GMT)

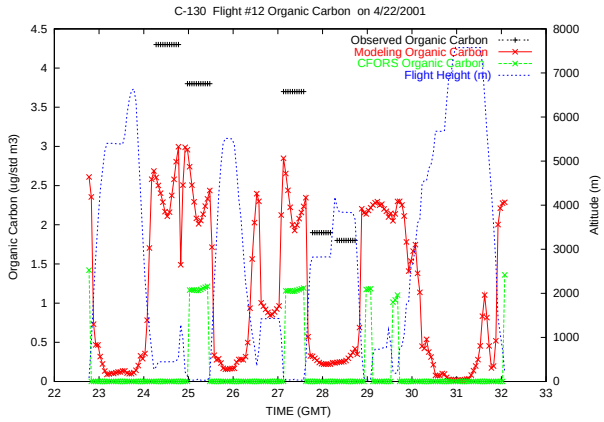

C-130 Flight #12 NOy on 4/22/2001
Modeling NOy
Flight Height (m)
NOy (ppbv)
Altitude (m)
TIME (GMT)

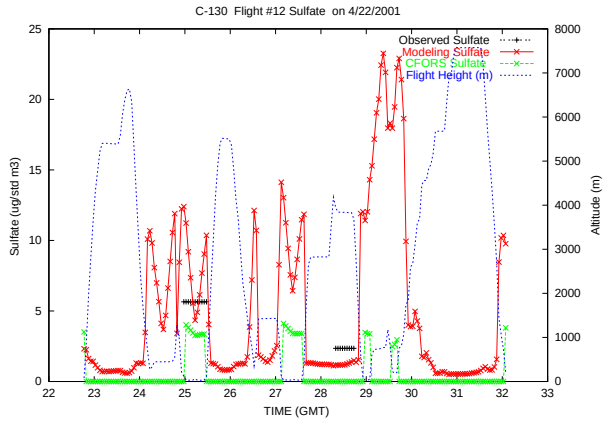

C-130 Flight #12 SO2 on 4/22/2001
Observed SO2
Modeling SO2
Flight Height (m)
SO2 (ppbv)
Altitude (m)
TIME (GMT)

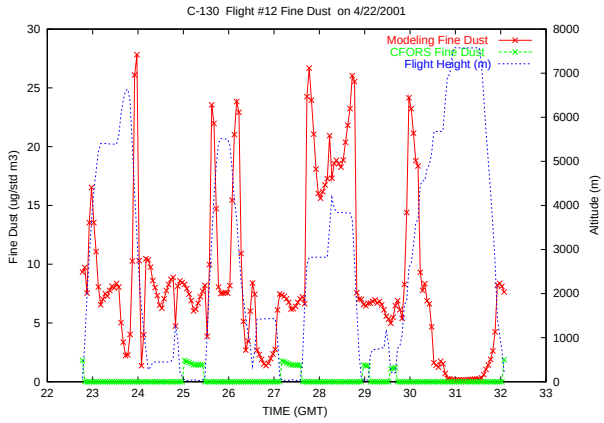

C-130 Flight #12 Ethane on 4/22/2001
Observed Ethane
Modeling Ethane
Flight Height (m)
Ethane (ppbv)
Altitude (m)
TIME (GMT)

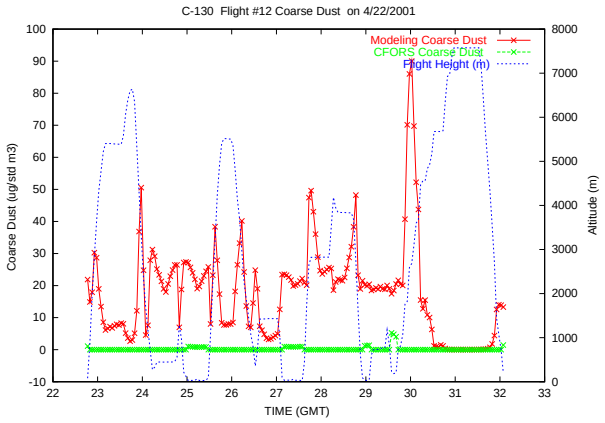

C-130 Flight #12 Propane on 4/22/2001
Observed Propane
Modeling Propane
Flight Height (m)
Propane (ppbv)
Altitude (m)
TIME (GMT)

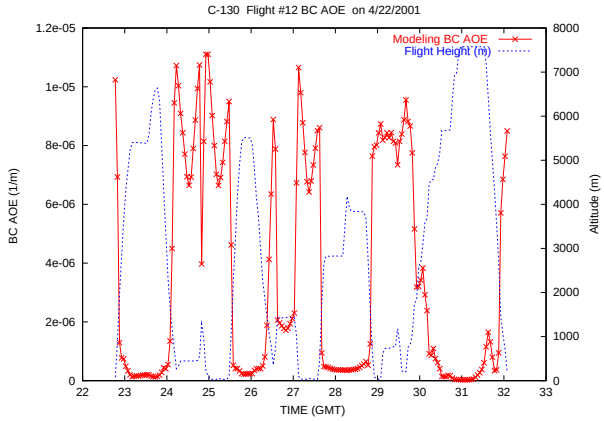

C-130 Flight #12 Black Carbon on 4/22/2001
Observed Black Carbon
Modeling Black Carbon
CFORS Black Carbon
Flight Height (m)
Black Carbon (ug/std m3)
Altitude (m)
TIME (GMT)

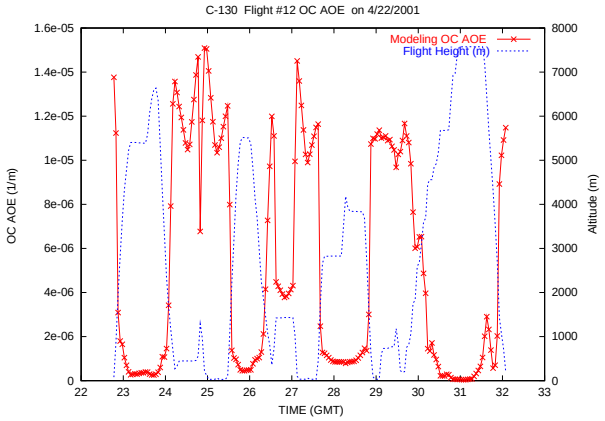

C-130 Flight #12 Organic Carbon on 4/22/2001
Observed Organic Carbon
Modeling Organic Carbon
CFORS Organic Carbon
Flight Height (m)
Organic Carbon (ug/std m3)
Altitude (m)
TIME (GMT)

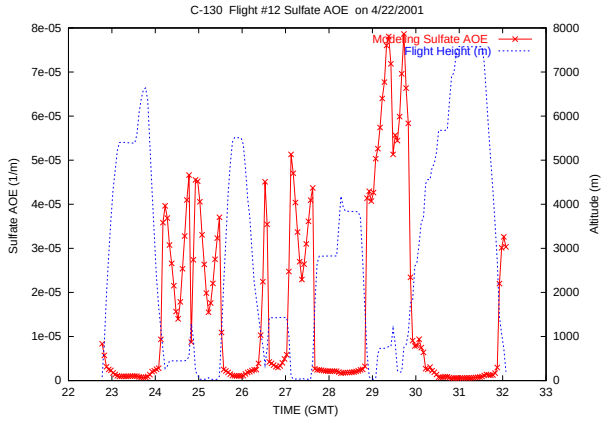

C-130 Flight #12 Sulfate on 4/22/2001
Observed Sulfate
Modeling Sulfate
CFORS Sulfate
Flight Height (m)
Sulfate (ug/std m3)
Altitude (m)
TIME (GMT)

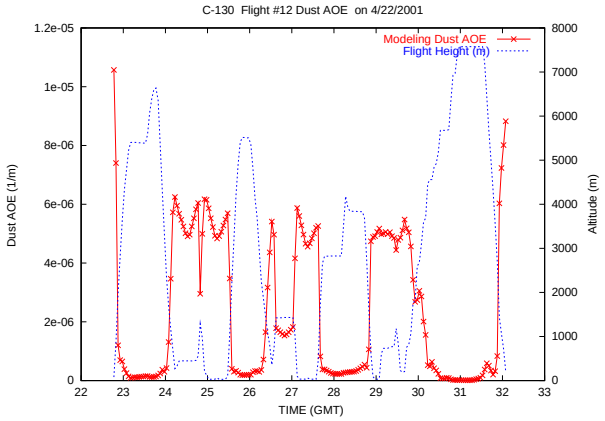

C-130 Flight #12 Fine Dust on 4/22/2001
Modeling Fine Dust
CFORS Fine Dust
Flight Height (m)
Fine Dust (ug/std m3)
Altitude (m)
TIME (GMT)

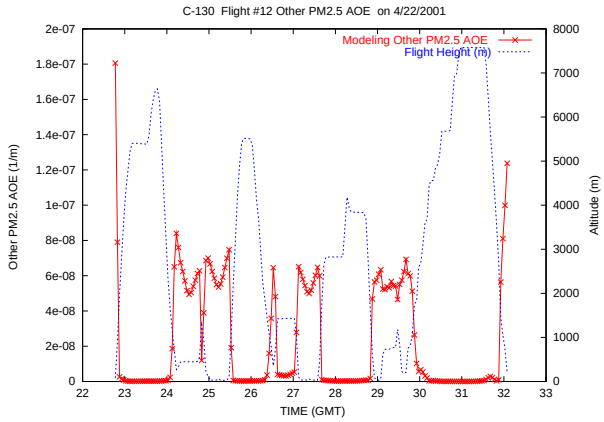

C-130 Flight #12 Coarse Dust on 4/22/2001
Modeling Coarse Dust
CFORS Coarse Dust
Flight Height (m)
Coarse Dust (ug/std m3)
Altitude (m)
TIME (GMT)

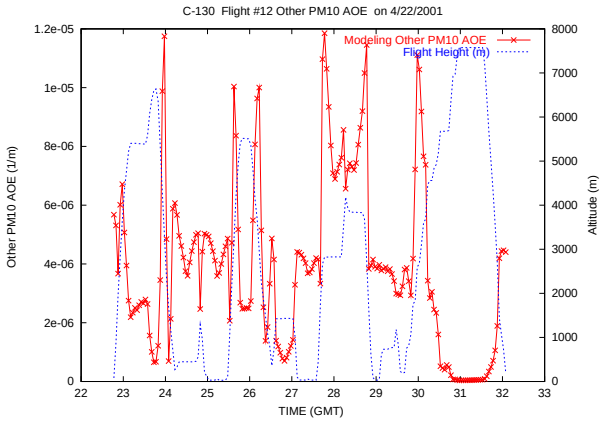

C-130 Flight #12 BC AOE on 4/22/2001
Modeling BC AOE
Flight Height (m)
BC AOE (1/m)
Altitude (m)
TIME (GMT)

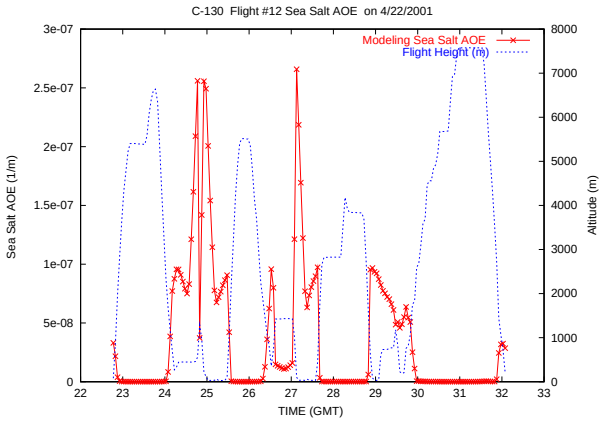

C-130 Flight #12 OC AOE on 4/22/2001
Modeling OC AOE
Flight Height (m)
OC AOE (1/m)
Altitude (m)
TIME (GMT)

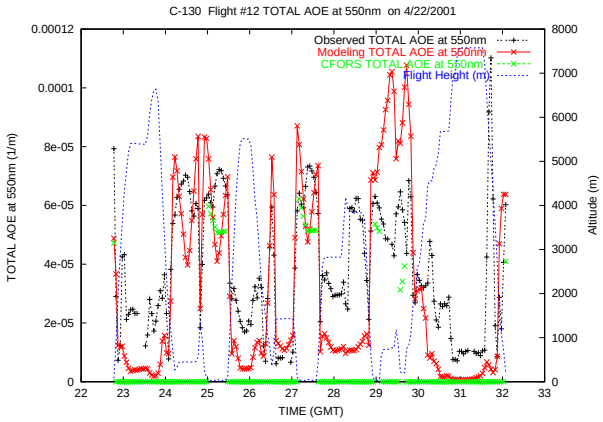

C-130 Flight #12 Sulfate AOE on 4/22/2001
Modeling Sulfate AOE
Flight Height (m)
Sulfate AOE (1/m)
Altitude (m)
TIME (GMT)

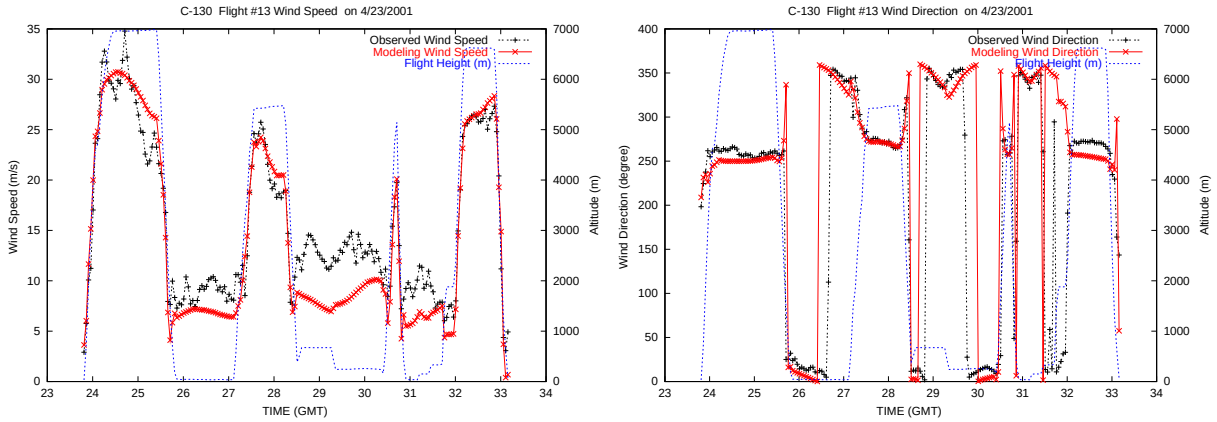

C-130 Flight #12 Dust AOE on 4/22/2001
Modeling Dust AOE
Flight Height (m)
Dust AOE (1/m)
Altitude (m)
TIME (GMT)


C-130 Flight #12 Other PM2.5 AOE on 4/22/2001
Modeling Other PM2.5 AOE
Flight Height (m)
Other PM2.5 AOE (1/m)
Altitude (m)
TIME (GMT)

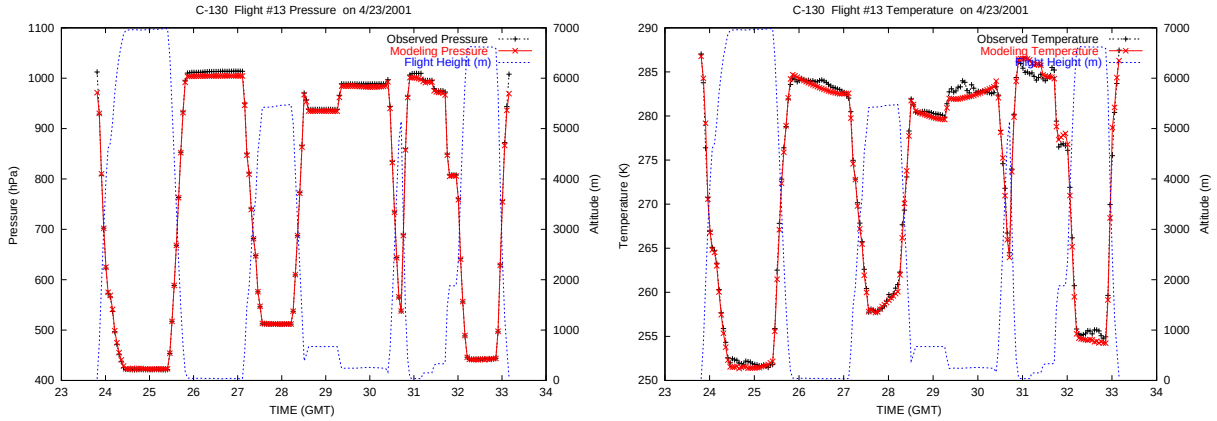

C-130 Flight #12 Other PM10 AOE on 4/22/2001
Modeling Other PM10 AOE
Flight Height (m)
Other PM10 AOE (1/m)
Altitude (m)
TIME (GMT)


C-130 Flight #12 Sea Salt AOE on 4/22/2001
Modeling Sea Salt AOE
Flight Height (m)
Sea Salt AOE (1/m)
Altitude (m)
TIME (GMT)

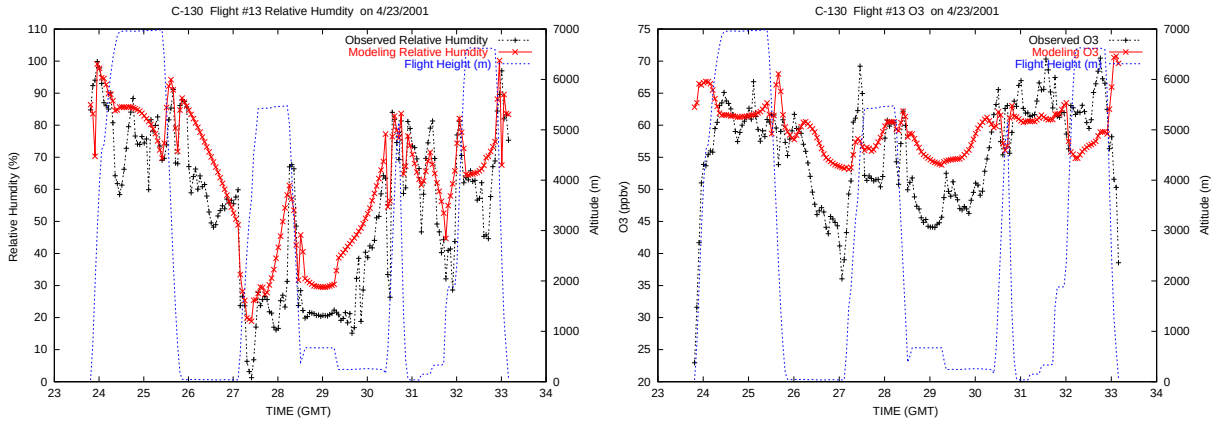

C-130 Flight #12 TOTAL AOE at 550nm on 4/22/2001
Observed TOTAL AOE at 550nm
Modeling TOTAL AOE at 550nm
CFORS TOTAL AOE at 550nm
Flight Height (m)
TOTAL AOE at 550nm (1/m)
Altitude (m)
TIME (GMT)


C-130 Flight #13 Wind Speed on 4/23/2001
Observed Wind Speed
Modeling Wind Speed
Flight Height (m)
Wind Speed (m/s)
Altitude (m)
TIME (GMT)

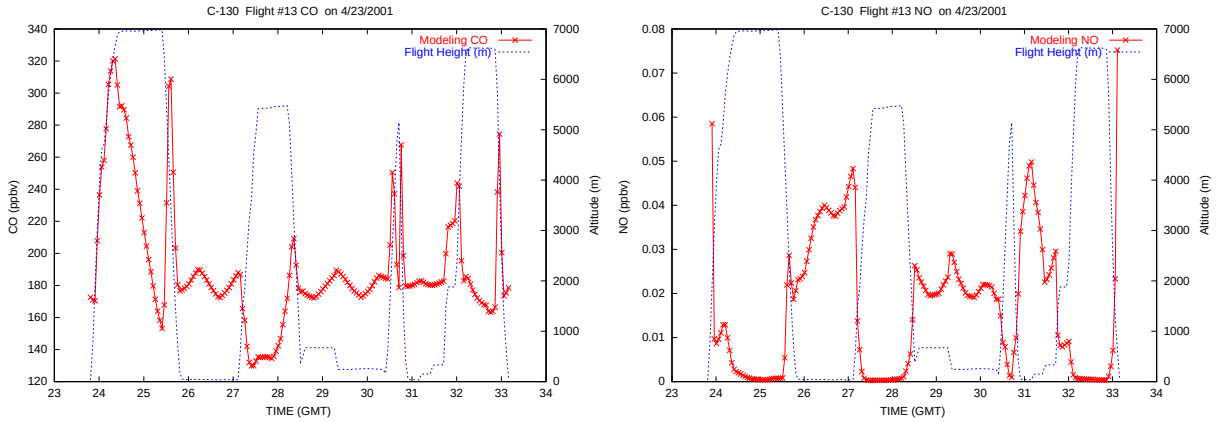

C-130 Flight #13 Wind Direction on 4/23/2001
Observed Wind Direction
Modeling Wind Direction
Flight Height (m)
Wind Direction (degree)
Altitude (m)
TIME (GMT)


C-130 Flight #13 Pressure on 4/23/2001
Observed Pressure
Modeling Pressure
Flight Height (m)
Pressure (hPa)
Altitude (m)
TIME (GMT)

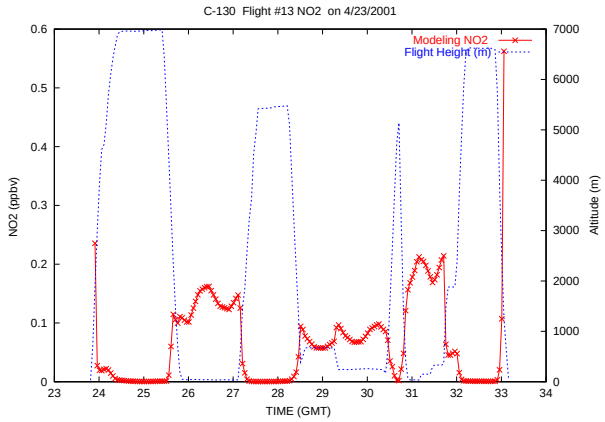

C-130 Flight #13 Temperature on 4/23/2001
Observed Temperature
Modeling Temperature
Flight Height (m)
Temperature (K)
Altitude (m)
TIME (GMT)

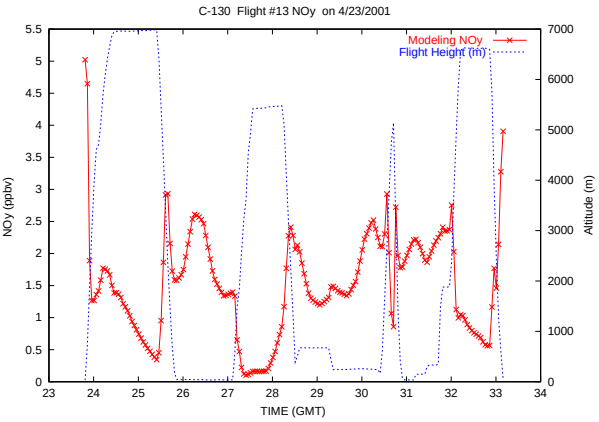

C-130 Flight #13 Relative Humdity on 4/23/2001
Observed Relative Humdity
Modeling Relative Humdity
Flight Height (m)
Relative Humdity (%)
Altitude (m)
TIME (GMT)

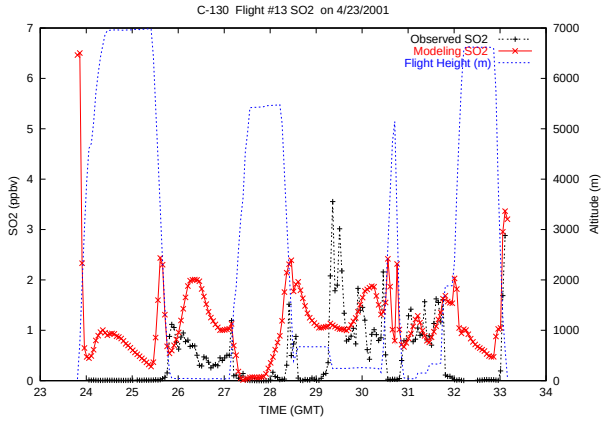

C-130 Flight #13 O3 on 4/23/2001
Observed O3
Modeling O3
Flight Height (m)
O3 (ppbv)
Altitude (m)
TIME (GMT)

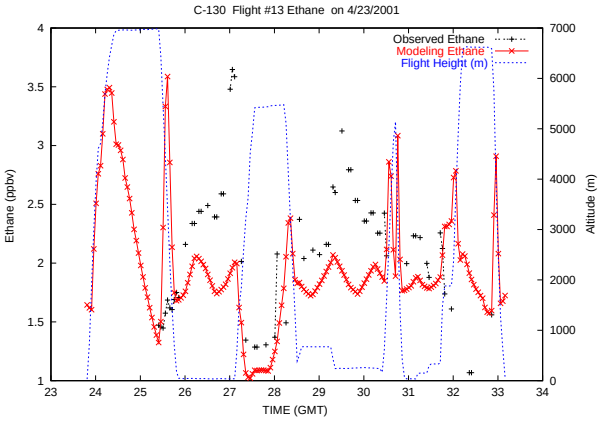

C-130 Flight #13 CO on 4/23/2001
Modeling CO
Flight Height (m)
CO (ppbv)
Altitude (m)
TIME (GMT)

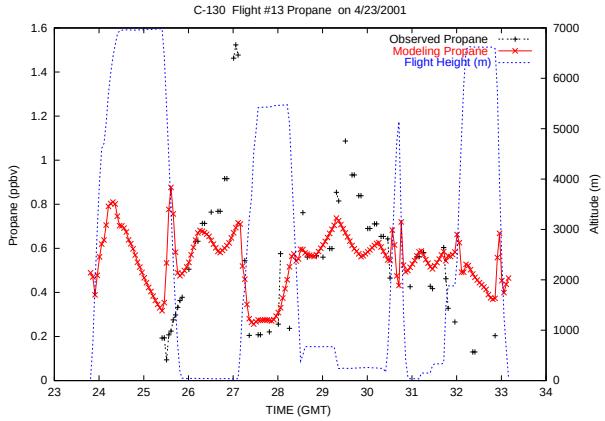

C-130 Flight #13 NO on 4/23/2001
Modeling NO
Flight Height (m)
NO (ppbv)
Altitude (m)
TIME (GMT)

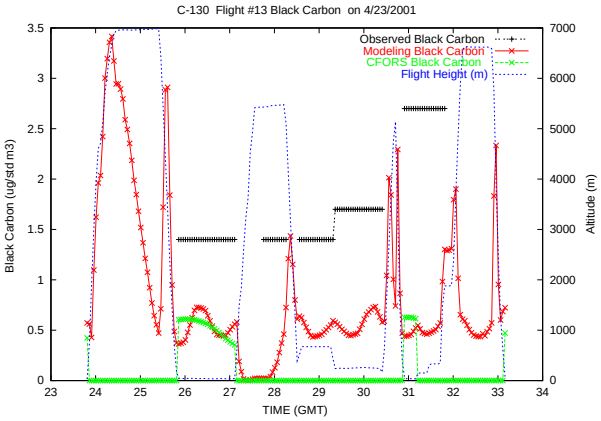

C-130 Flight #13 NO2 on 4/23/2001
Modeling NO2
Flight Height (m)
NO2 (ppbv)
Altitude (m)
TIME (GMT)

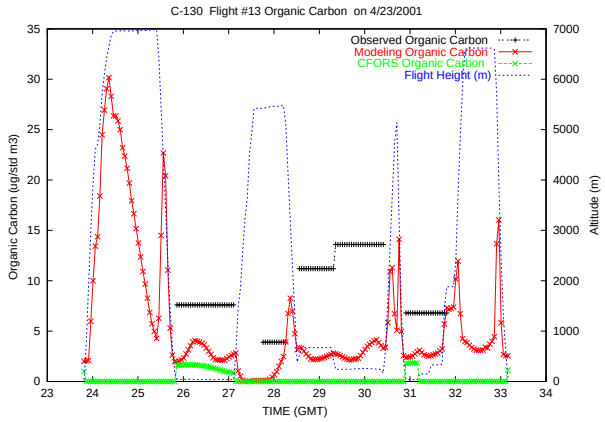

C-130 Flight #13 NOy on 4/23/2001
Modeling NOy
Flight Height (m)
NOy (ppbv)
Altitude (m)
TIME (GMT)

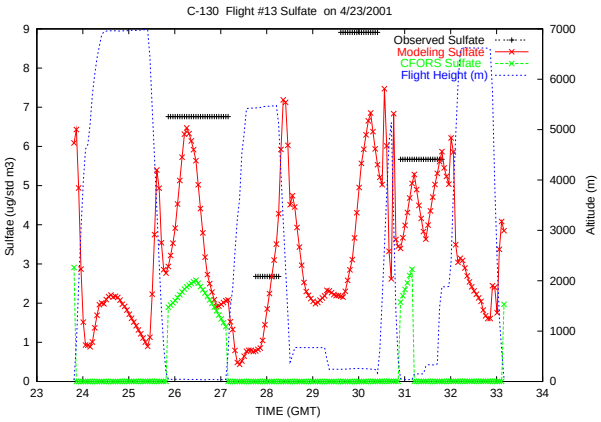

C-130 Flight #13 SO2 on 4/23/2001
Observed SO2
Modeling SO2
Flight Height (m)
SO2 (ppbv)
Altitude (m)
TIME (GMT)

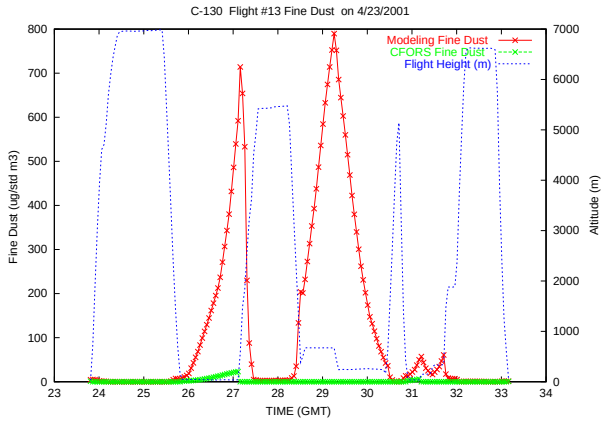

C-130 Flight #13 Ethane on 4/23/2001
Observed Ethane
Modeling Ethane
Flight Height (m)
Ethane (ppbv)
Altitude (m)
TIME (GMT)

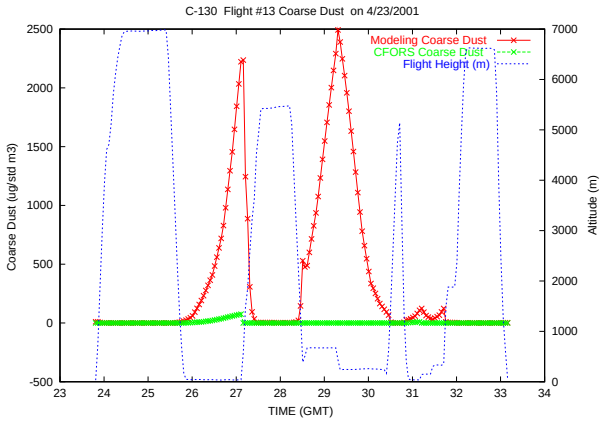

C-130 Flight #13 Propane on 4/23/2001
Observed Propane
Modeling Propane
Flight Height (m)
Propane (ppbv)
Altitude (m)
TIME (GMT)

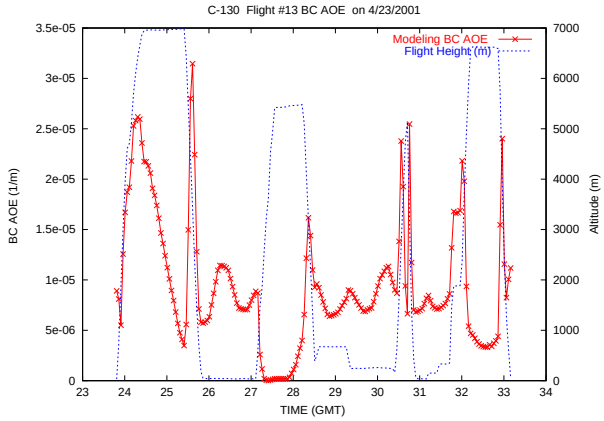

C-130 Flight #13 Black Carbon on 4/23/2001
Observed Black Carbon
Modeling Black Carbon
CFORS Black Carbon
Flight Height (m)
Black Carbon (ug/std m3)
Altitude (m)
TIME (GMT)

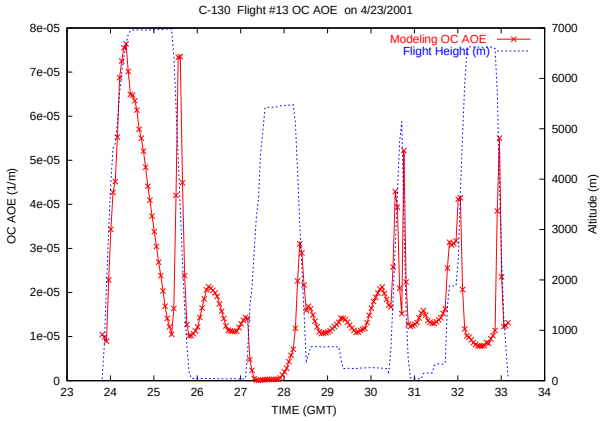

C-130 Flight #13 Organic Carbon on 4/23/2001
Observed Organic Carbon
Modeling Organic Carbon
CFORS Organic Carbon
Flight Height (m)
Organic Carbon (ug/std m3)
Altitude (m)
TIME (GMT)

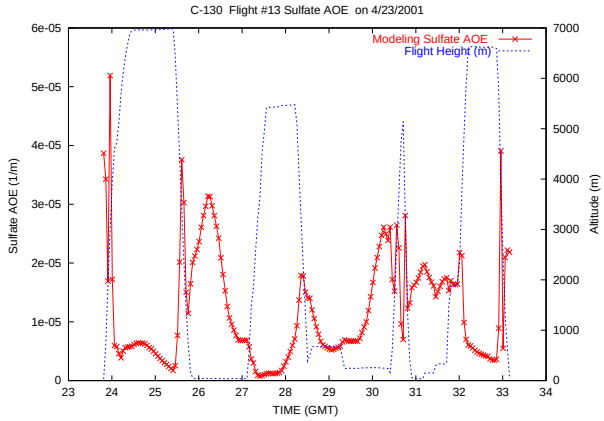

C-130 Flight #13 Sulfate on 4/23/2001
Observed Sulfate
Modeling Sulfate
CFORS Sulfate
Flight Height (m)
Sulfate (ug/std m3)
Altitude (m)
TIME (GMT)

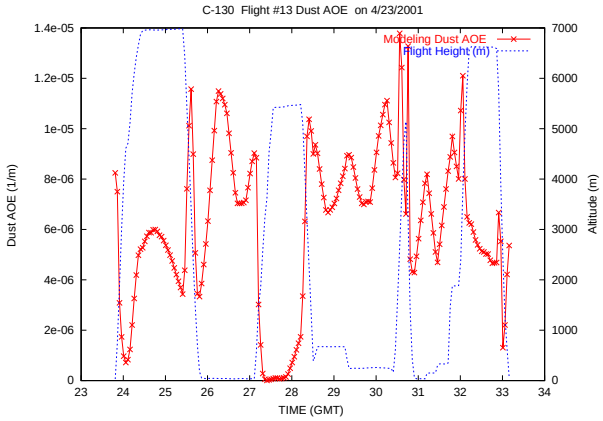

C-130 Flight #13 Fine Dust on 4/23/2001
Modeling Fine Dust
CFORS Fine Dust
Flight Height (m)
Fine Dust (ug/std m3)
Altitude (m)
TIME (GMT)

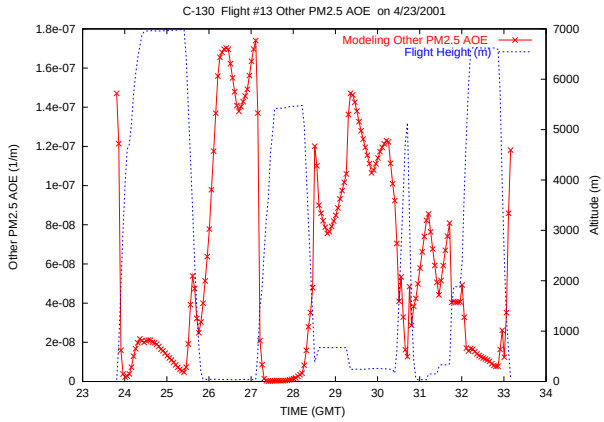

C-130 Flight #13 Coarse Dust on 4/23/2001
Modeling Coarse Dust
CFORS Coarse Dust
Flight Height (m)
Coarse Dust (ug/std m3)
Altitude (m)
TIME (GMT)

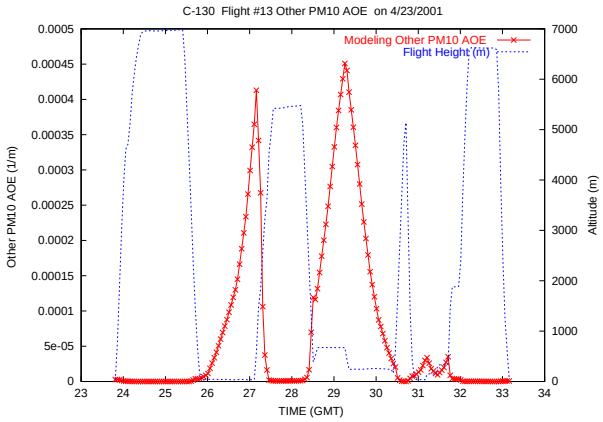

C-130 Flight #13 BC AOE on 4/23/2001
Modeling BC AOE
Flight Height (m)
BC AOE (1/m)
Altitude (m)
TIME (GMT)

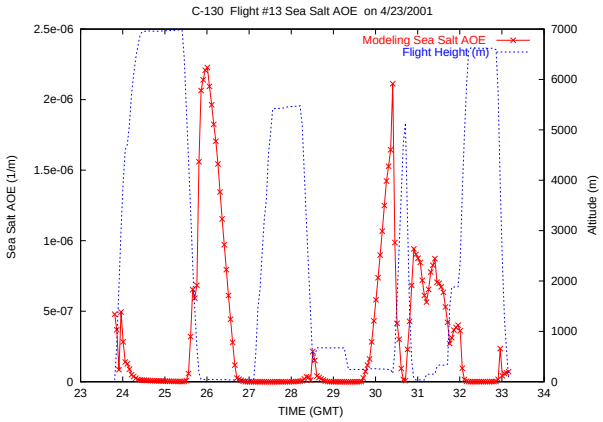

C-130 Flight #13 OC AOE on 4/23/2001
Modeling OC AOE
Flight Height (m)
OC AOE (1/m)
Altitude (m)
TIME (GMT)

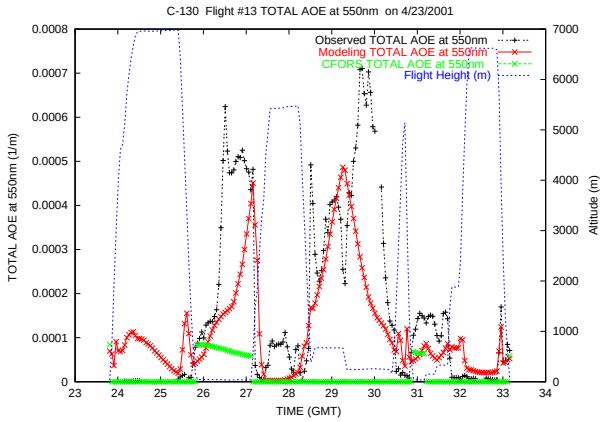

C-130 Flight #13 Sulfate AOE on 4/23/2001
Modeling Sulfate AOE
Flight Height (m)
Sulfate AOE (1/m)
Altitude (m)
TIME (GMT)

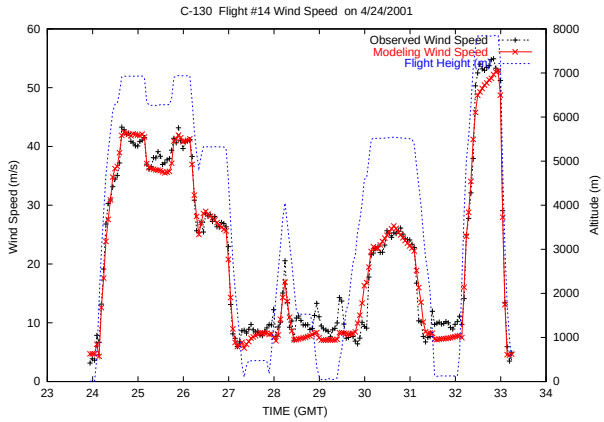

C-130 Flight #13 Dust AOE on 4/23/2001
Modeling Dust AOE
Flight Height (m)
Dust AOE (1/m)
Altitude (m)
TIME (GMT)

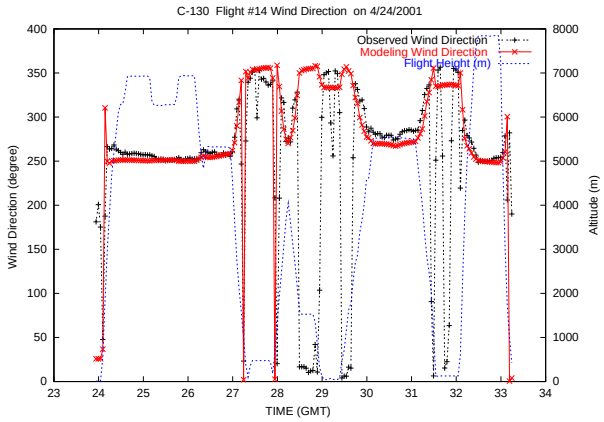

C-130 Flight #13 Other PM2.5 AOE on 4/23/2001
Modeling Other PM2.5 AOE
Flight Height (m)
Other PM2.5 AOE (1/m)
Altitude (m)
TIME (GMT)

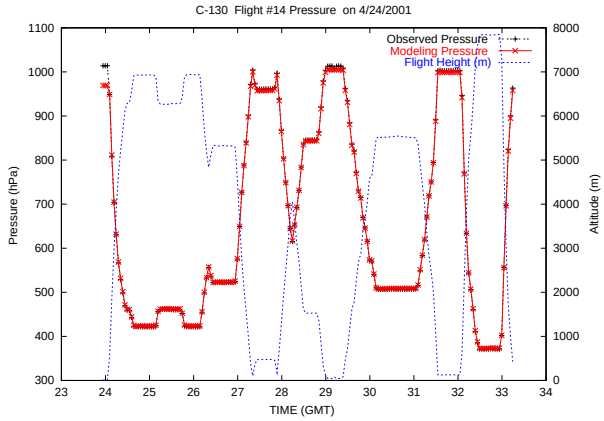

C-130 Flight #13 Other PM10 AOE on 4/23/2001
Modeling Other PM10 AOE
Flight Height (m)
Other PM10 AOE (1/m)
Altitude (m)
TIME (GMT)

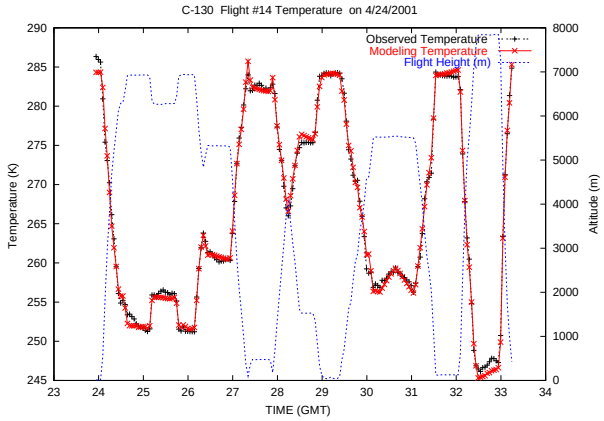

C-130 Flight #13 Sea Salt AOE on 4/23/2001
Modeling Sea Salt AOE
Flight Height (m)
Sea Salt AOE (1/m)
Altitude (m)
TIME (GMT)
0
5e-07
1e-06
1.5e-06
2e-06
2.5e-06
0
1000
2000
3000
4000
5000
6000
7000
23
24
25
26
27
28
29
30
31
32
33
34

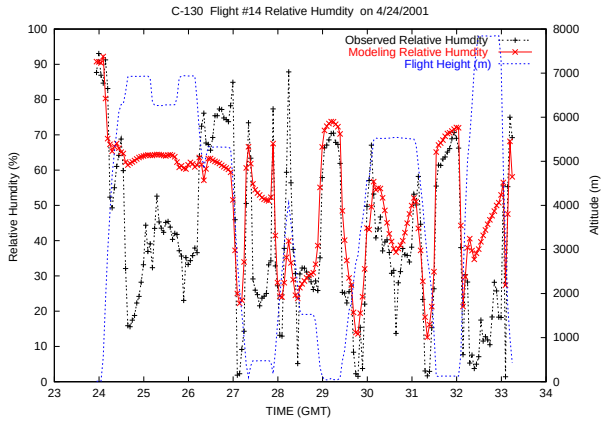

C-130 Flight #13 TOTAL AOE at 550nm on 4/23/2001
Observed TOTAL AOE at 550nm
Modeling TOTAL AOE at 550nm
CFORS TOTAL AOE at 550nm
Flight Height (m)
TOTAL AOE at 550nm (1/m)
Altitude (m)
TIME (GMT)
0
0.0001
0.0002
0.0003
0.0004
0.0005
0.0006
0.0007
0.0008
0
1000
2000
3000
4000
5000
6000
7000
23
24
25
26
27
28
29
30
31
32
33
34

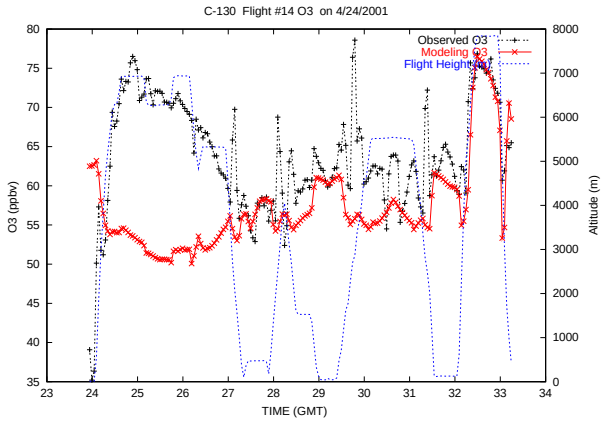

C-130 Flight #14 Wind Speed on 4/24/2001
Observed Wind Speed
Modeling Wind Speed
Flight Height (m)
Wind Speed (m/s)
Altitude (m)
TIME (GMT)

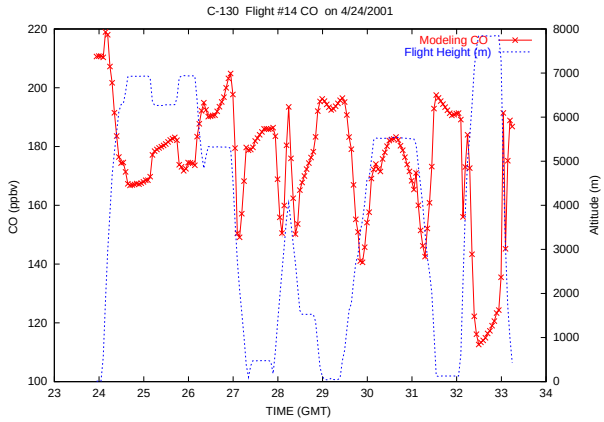

C-130 Flight #14 Wind Direction on 4/24/2001
Observed Wind Direction
Modeling Wind Direction
Flight Height (m)
Wind Direction (degree)
Altitude (m)
TIME (GMT)

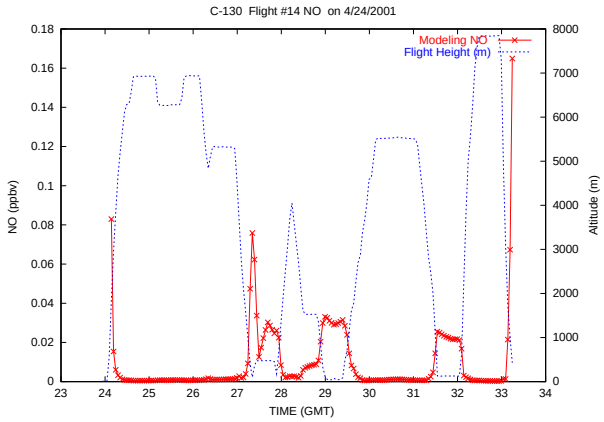

C-130 Flight #14 Pressure on 4/24/2001
Observed Pressure
Modeling Pressure
Flight Height (m)
Pressure (hPa)
Altitude (m)
TIME (GMT)

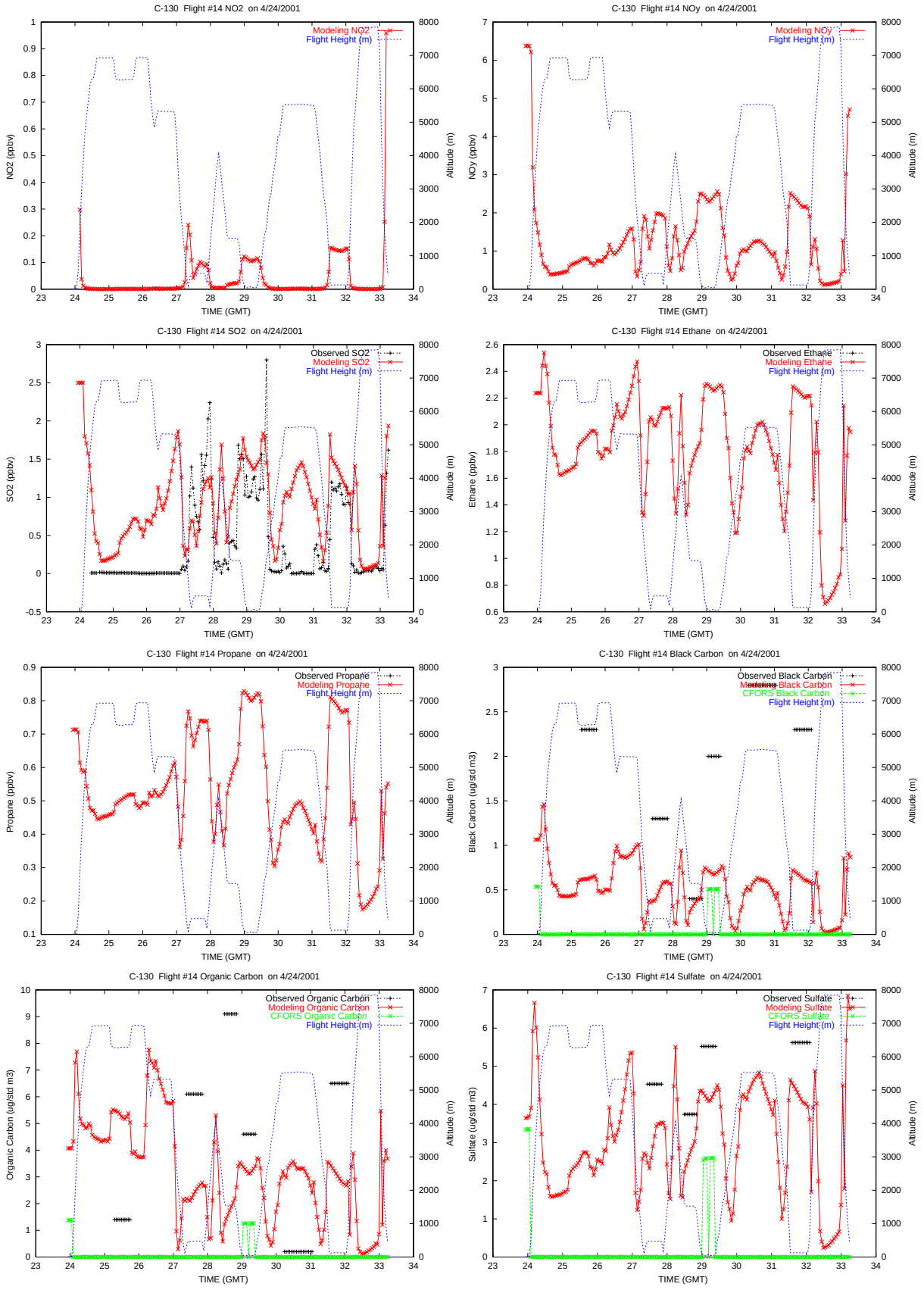

C-130 Flight #14 Temperature on 4/24/2001
Observed Temperature
Modeling Temperature
Flight Height (m)
Temperature (K)
Altitude (m)
TIME (GMT)

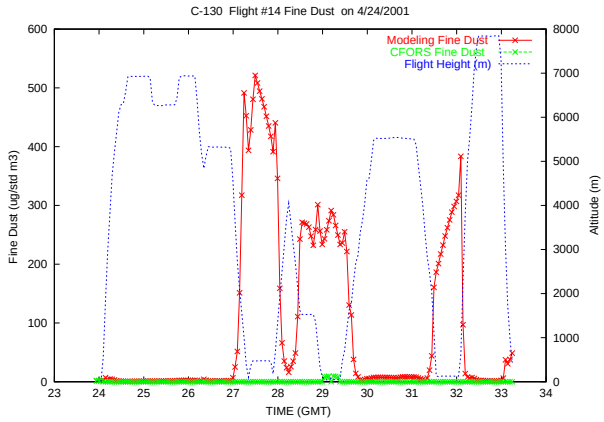

C-130 Flight #14 Relative Humdity on 4/24/2001
Observed Relative Humdity
Modeling Relative Humdity
Flight Height (m)
Relative Humdity (%)
Altitude (m)
TIME (GMT)

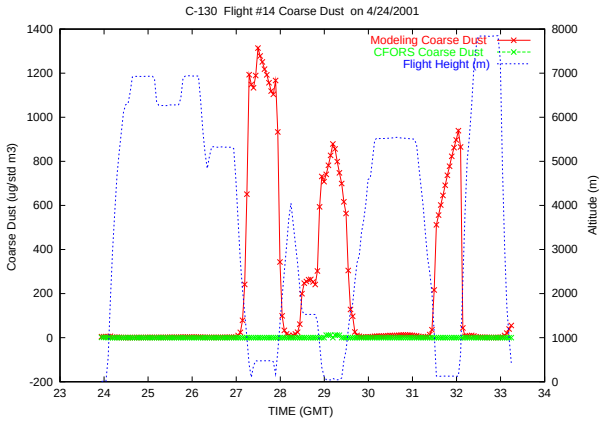

C-130 Flight #14 O3 on 4/24/2001
Observed O3
Modeling O3
Flight Height (m)
O3 (ppbv)
Altitude (m)
TIME (GMT)

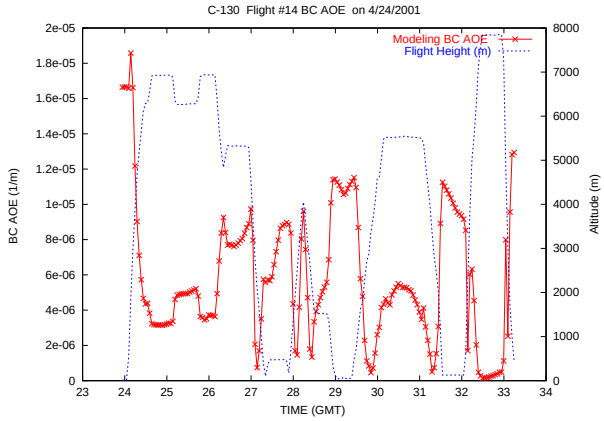

C-130 Flight #14 CO on 4/24/2001
Modeling CO
Flight Height (m)
CO (ppbv)
Altitude (m)
TIME (GMT)

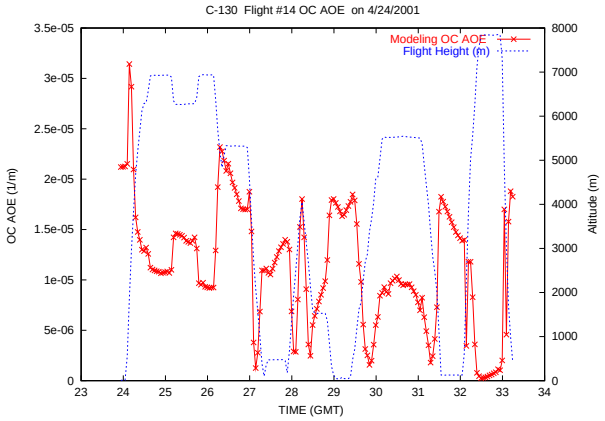

C-130 Flight #14 NO on 4/24/2001
Modeling NO
Flight Height (m)
NO (ppbv)
Altitude (m)
TIME (GMT)

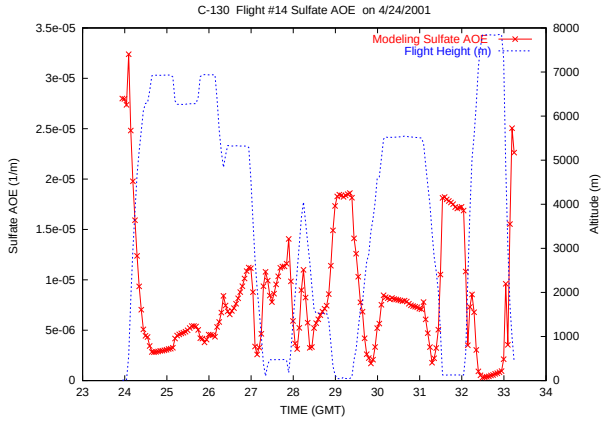

C-130 Flight #14 NO2 on 4/24/2001
Modeling NO2
Flight Height (m)
NO2 (ppbv)
Altitude (m)
TIME (GMT)
C-130 Flight #14 NOy on 4/24/2001
Modeling NOy
Flight Height (m)
NOy (ppbv)
Altitude (m)
TIME (GMT)
C-130 Flight #14 SO2 on 4/24/2001
Observed SO2
Modeling SO2
Flight Height (m)
SO2 (ppbv)
Altitude (m)
TIME (GMT)
C-130 Flight #14 Ethane on 4/24/2001
Observed Ethane
Modeling Ethane
Flight Height (m)
Ethane (ppbv)
Altitude (m)
TIME (GMT)
C-130 Flight #14 Propane on 4/24/2001
Observed Propane
Modeling Propane
Flight Height (m)
Propane (ppbv)
Altitude (m)
TIME (GMT)
C-130 Flight #14 Black Carbon on 4/24/2001
Observed Black Carbon
Modeling Black Carbon
CFORS Black Carbon
Flight Height (m)
Black Carbon (ug/std m3)
Altitude (m)
TIME (GMT)
C-130 Flight #14 Organic Carbon on 4/24/2001
Observed Organic Carbon
Modeling Organic Carbon
CFORS Organic Carbon
Flight Height (m)
Organic Carbon (ug/std m3)
Altitude (m)
TIME (GMT)
C-130 Flight #14 Sulfate on 4/24/2001
Observed Sulfate
Modeling Sulfate
CFORS Sulfate
Flight Height (m)
Sulfate (ug/std m3)
Altitude (m)
TIME (GMT)

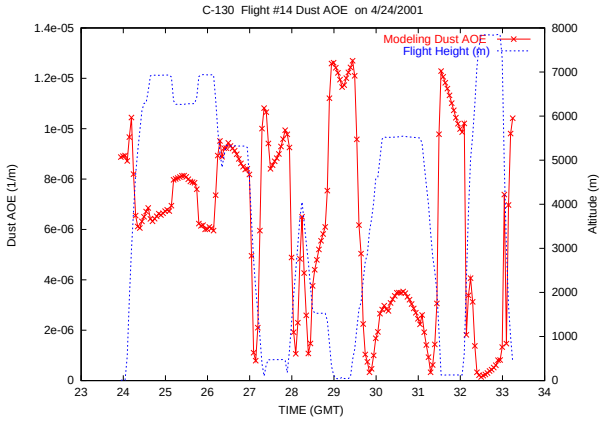

C-130 Flight #14 Fine Dust on 4/24/2001
Modeling Fine Dust
CFORS Fine Dust
Flight Height (m)
Fine Dust (ug/std m3)
Altitude (m)
TIME (GMT)

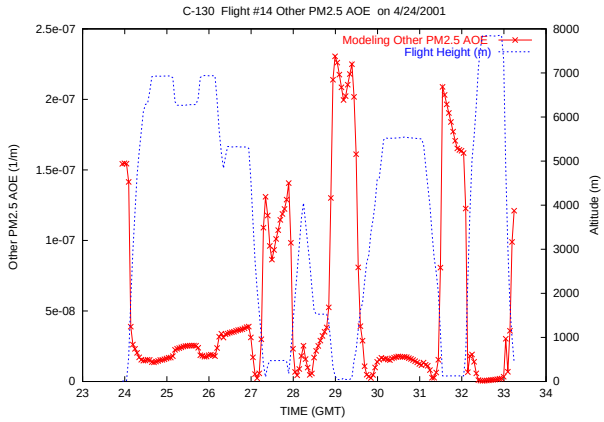

C-130 Flight #14 Coarse Dust on 4/24/2001
Modeling Coarse Dust
CFORS Coarse Dust
Flight Height (m)
Coarse Dust (ug/std m3)
Altitude (m)
TIME (GMT)

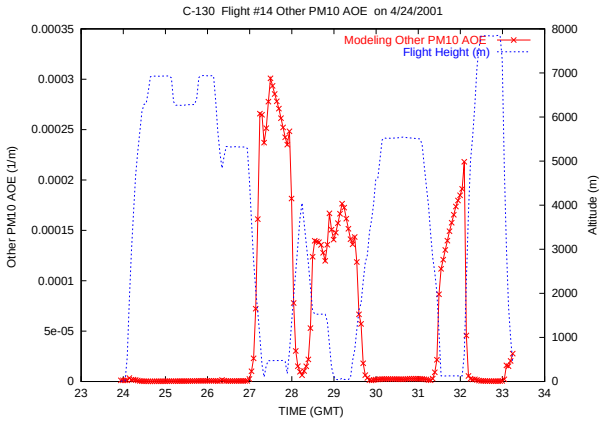

C-130 Flight #14 BC AOE on 4/24/2001
Modeling BC AOE
Flight Height (m)
BC AOE (1/m)
Altitude (m)
TIME (GMT)

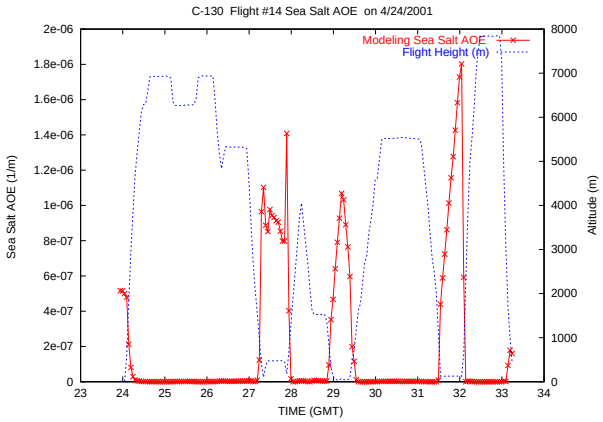

C-130 Flight #14 OC AOE on 4/24/2001
Modeling OC AOE
Flight Height (m)
OC AOE (1/m)
Altitude (m)
TIME (GMT)

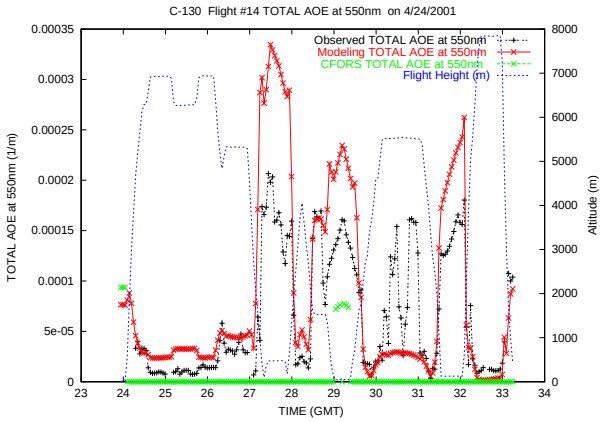

C-130 Flight #14 Sulfate AOE on 4/24/2001
Modeling Sulfate AOE
Flight Height (m)
Sulfate AOE (1/m)
Altitude (m)
TIME (GMT)

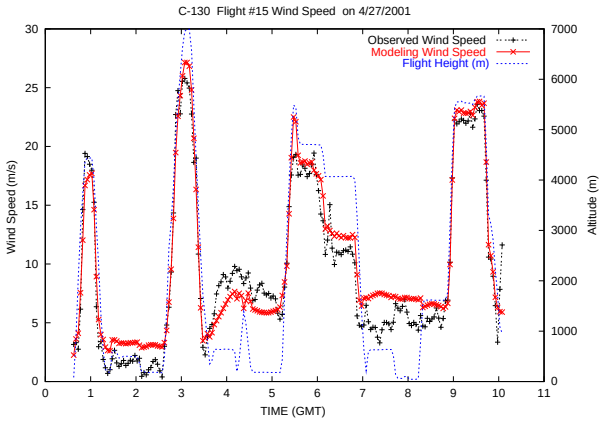

C-130 Flight #14 Dust AOE on 4/24/2001
Modeling Dust AOE
Flight Height (m)
Dust AOE (1/m)
Altitude (m)
TIME (GMT)

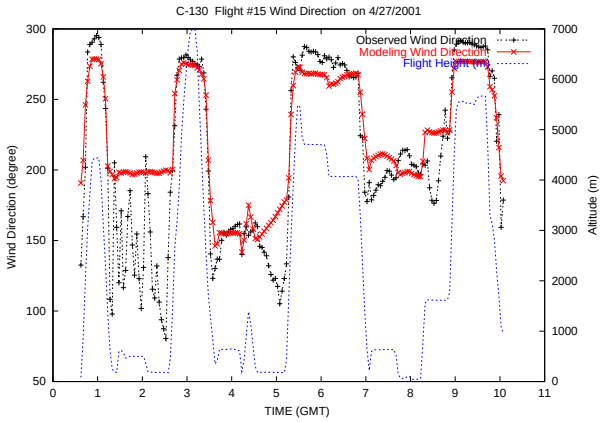

C-130 Flight #14 Other PM2.5 AOE on 4/24/2001
Modeling Other PM2.5 AOE
Flight Height (m)
Other PM2.5 AOE (1/m)
Altitude (m)
TIME (GMT)

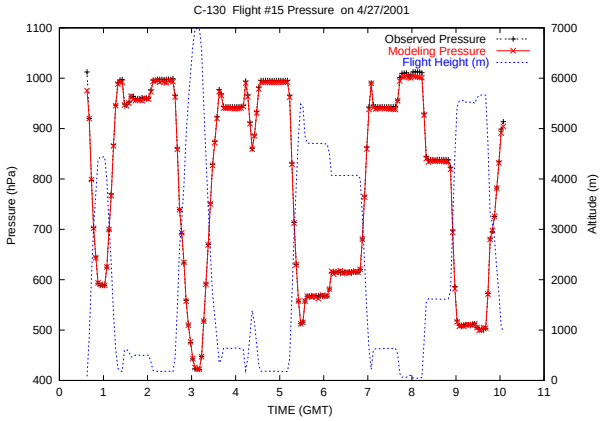

C-130 Flight #14 Other PM10 AOE on 4/24/2001
Modeling Other PM10 AOE
Flight Height (m)
Other PM10 AOE (1/m)
Altitude (m)
TIME (GMT)

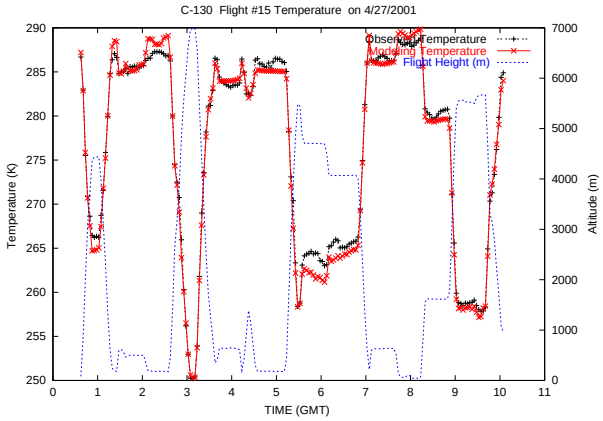

C-130 Flight #14 Sea Salt AOE on 4/24/2001
Modeling Sea Salt AOE
Flight Height (m)
Sea Salt AOE (1/m)
Altitude (m)
TIME (GMT)

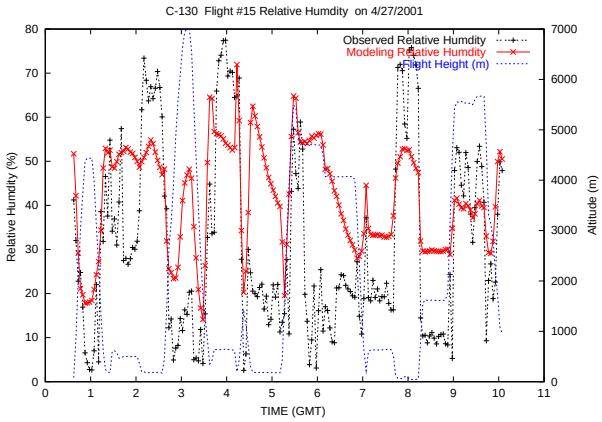

C-130 Flight #14 TOTAL AOE at 550nm on 4/24/2001
Observed TOTAL AOE at 550nm
Modeling TOTAL AOE at 550nm
CFORS TOTAL AOE at 550nm
Flight Height (m)
TOTAL AOE at 550nm (1/m)
Altitude (m)
TIME (GMT)

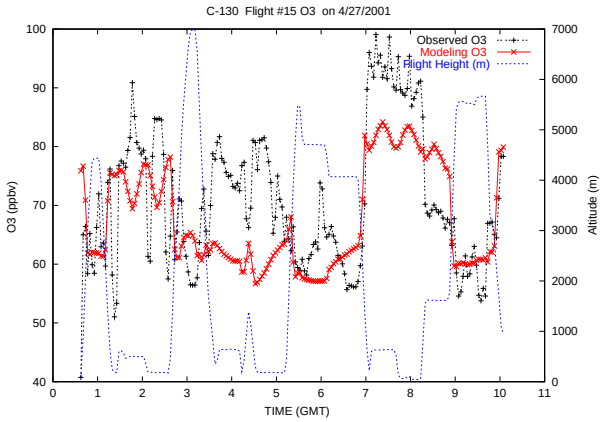

C-130 Flight #15 Wind Speed on 4/27/2001
Observed Wind Speed
Modeling Wind Speed
Flight Height (m)
Wind Speed (m/s)
Altitude (m)
TIME (GMT)

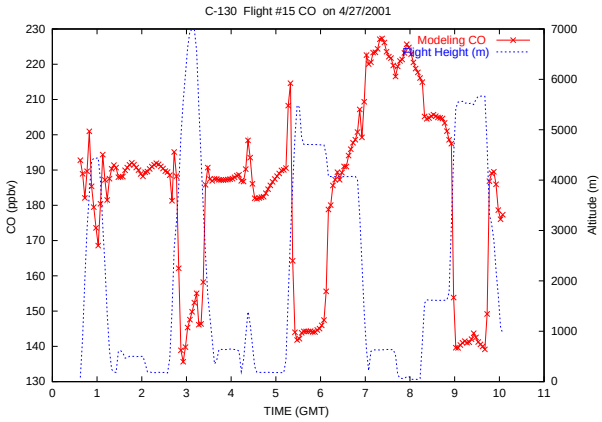

C-130 Flight #15 Wind Direction on 4/27/2001
Observed Wind Direction
Modeling Wind Direction
Flight Height (m)
Wind Direction (degree)
Altitude (m)
TIME (GMT)

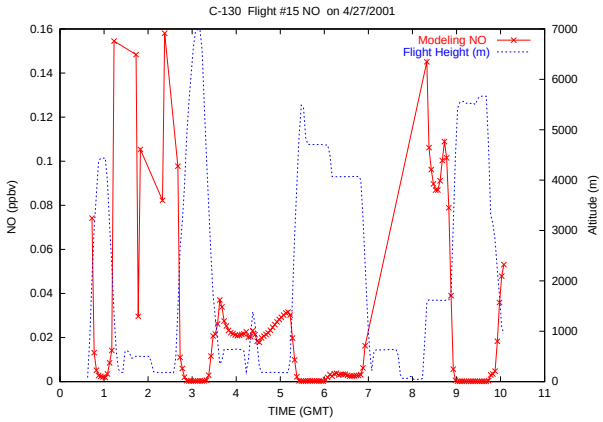

C-130 Flight #15 Pressure on 4/27/2001
Observed Pressure
Modeling Pressure
Flight Height (m)
Pressure (hPa)
Altitude (m)
TIME (GMT)

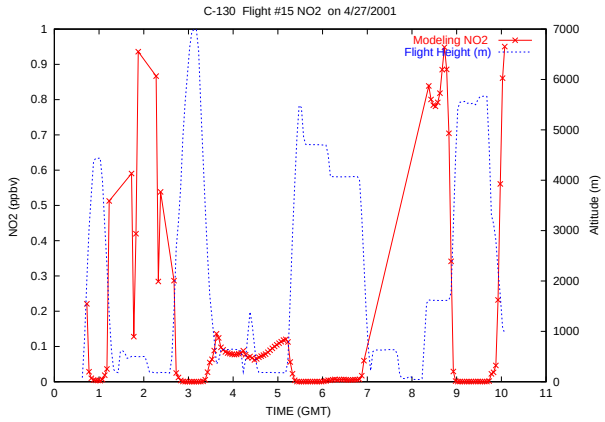

C-130 Flight #15 Temperature on 4/27/2001
Observed Temperature
Modeling Temperature
Flight Height (m)
Temperature (K)
Altitude (m)
TIME (GMT)

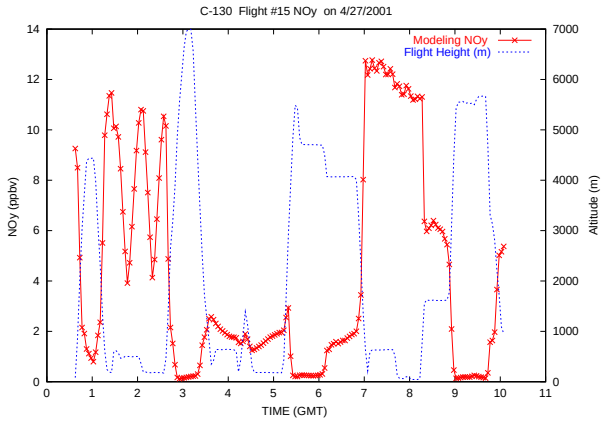

C-130 Flight #15 Relative Humdity on 4/27/2001
Observed Relative Humdity
Modeling Relative Humdity
Flight Height (m)
Relative Humdity (%)
Altitude (m)
TIME (GMT)

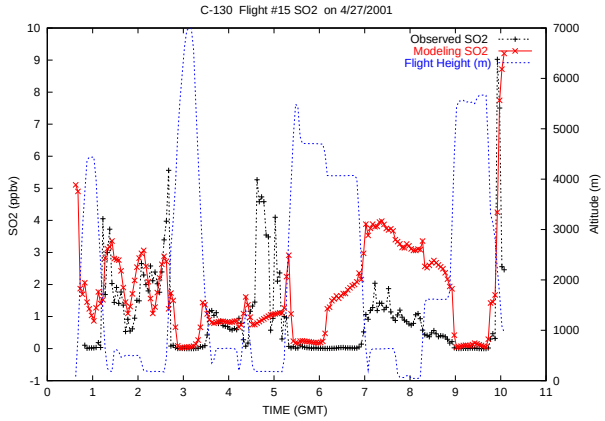

C-130 Flight #15 O3 on 4/27/2001
Observed O3
Modeling O3
Flight Height (m)
O3 (ppbv)
Altitude (m)
TIME (GMT)

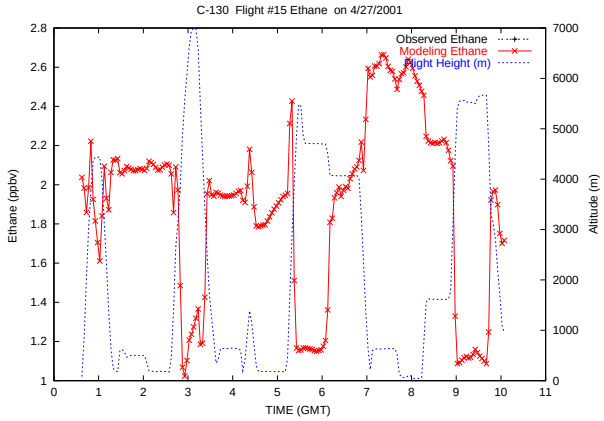

C-130 Flight #15 CO on 4/27/2001
Modeling CO
Flight Height (m)
CO (ppbv)
Altitude (m)
TIME (GMT)

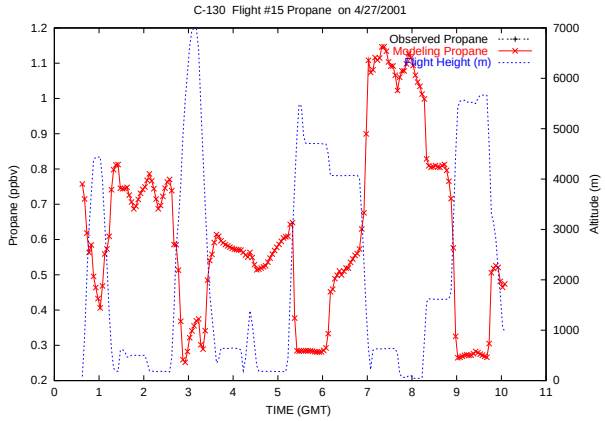

C-130 Flight #15 NO on 4/27/2001
Modeling NO
Flight Height (m)
NO (ppbv)
Altitude (m)
TIME (GMT)

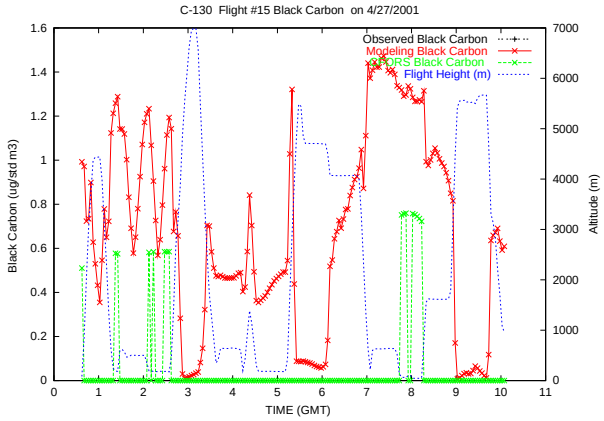

C-130 Flight #15 NO2 on 4/27/2001
Modeling NO2
Flight Height (m)
NO2 (ppbv)
Altitude (m)
TIME (GMT)

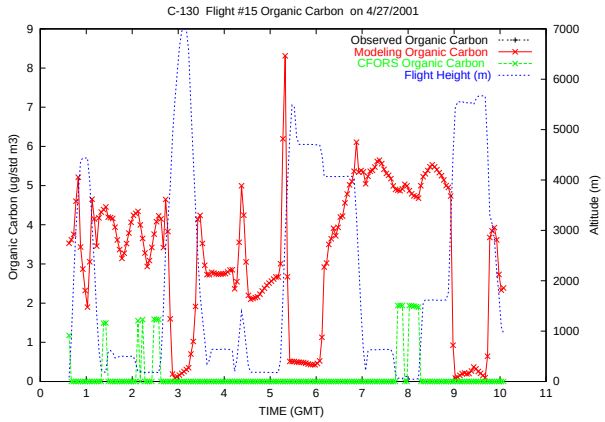

C-130 Flight #15 NOy on 4/27/2001
Modeling NOy
Flight Height (m)
NOy (ppbv)
Altitude (m)
TIME (GMT)

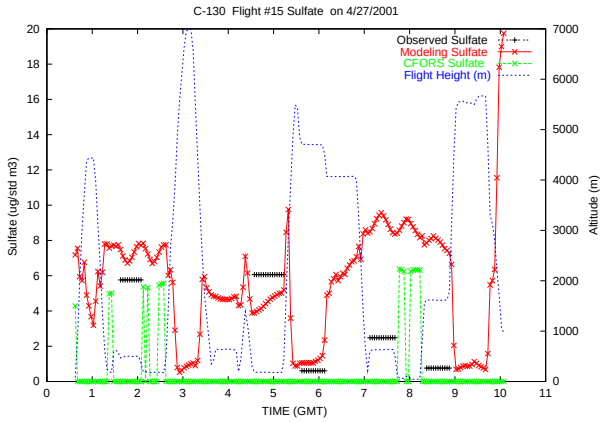

C-130 Flight #15 SO2 on 4/27/2001
Observed SO2
Modeling SO2
Flight Height (m)
SO2 (ppbv)
Altitude (m)
TIME (GMT)

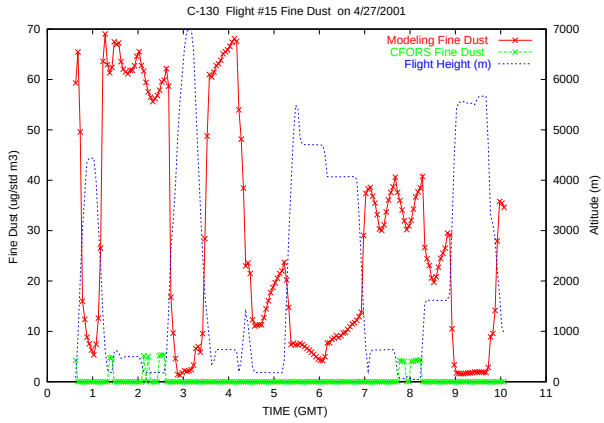

C-130 Flight #15 Ethane on 4/27/2001
Observed Ethane
Modeling Ethane
Flight Height (m)
Ethane (ppbv)
Altitude (m)
TIME (GMT)

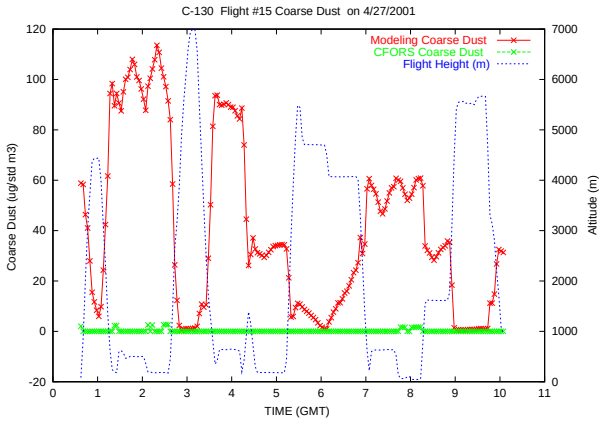

C-130 Flight #15 Propane on 4/27/2001
Observed Propane
Modeling Propane
Flight Height (m)
Propane (ppbv)
Altitude (m)
TIME (GMT)

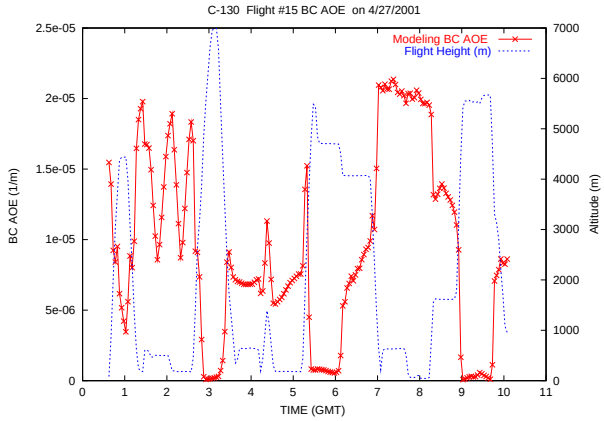

C-130 Flight #15 Black Carbon on 4/27/2001
Observed Black Carbon
Modeling Black Carbon
CFORS Black Carbon
Flight Height (m)
Black Carbon (ug/std m3)
Altitude (m)
TIME (GMT)

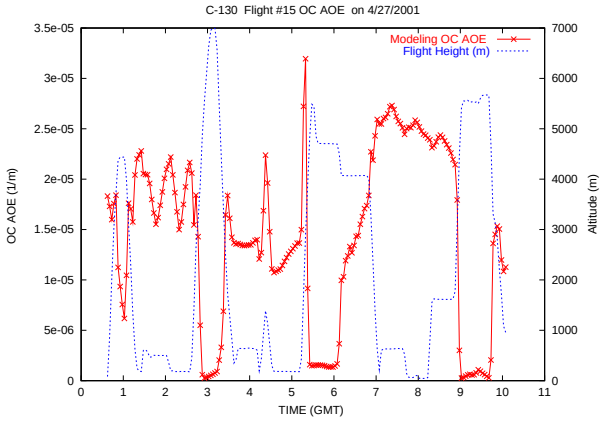

C-130 Flight #15 Organic Carbon on 4/27/2001
Observed Organic Carbon
Modeling Organic Carbon
CFORS Organic Carbon
Flight Height (m)
Organic Carbon (ug/std m3)
Altitude (m)
TIME (GMT)

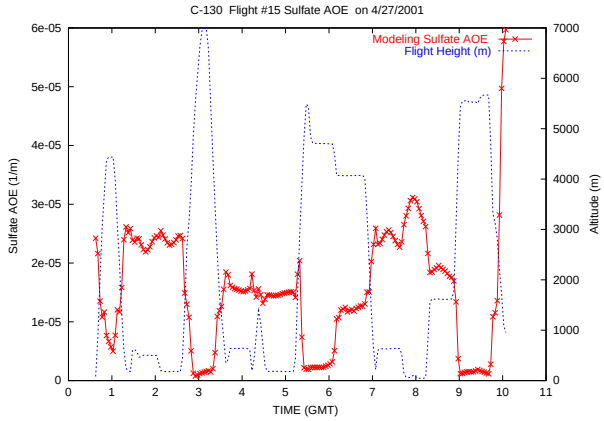

C-130 Flight #15 Sulfate on 4/27/2001
Observed Sulfate
Modeling Sulfate
CFORS Sulfate
Flight Height (m)
Sulfate (ug/std m3)
Altitude (m)
TIME (GMT)

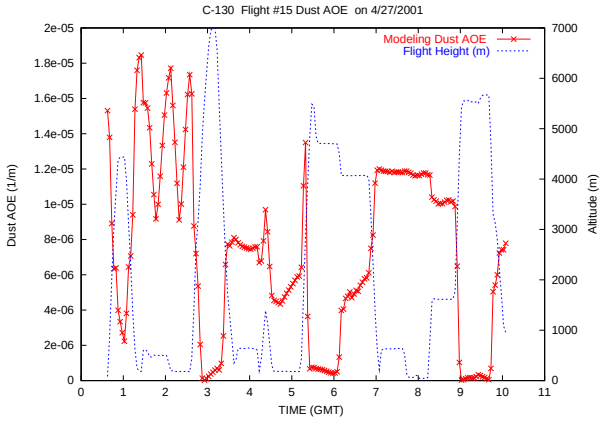

C-130 Flight #15 Fine Dust on 4/27/2001
Modeling Fine Dust
CFORS Fine Dust
Flight Height (m)
Fine Dust (ug/std m3)
Altitude (m)
TIME (GMT)

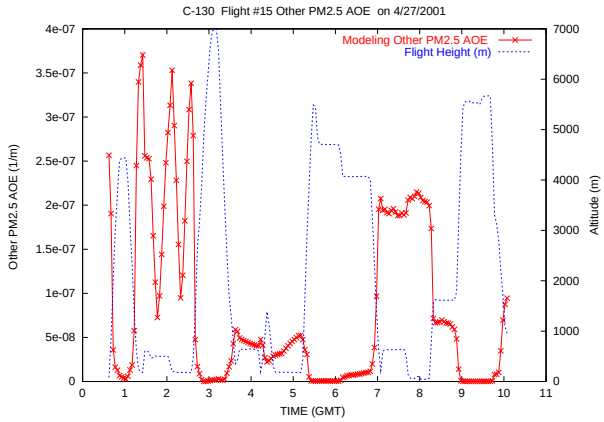

C-130 Flight #15 Coarse Dust on 4/27/2001
Modeling Coarse Dust
CFORS Coarse Dust
Flight Height (m)
Coarse Dust (ug/std m3)
Altitude (m)
TIME (GMT)

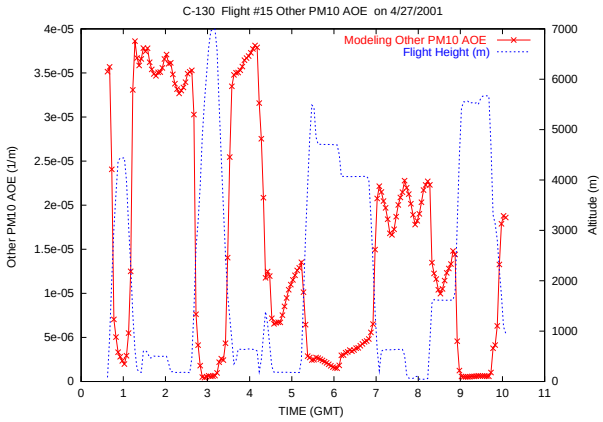

C-130 Flight #15 BC AOE on 4/27/2001
Modeling BC AOE
Flight Height (m)
BC AOE (1/m)
Altitude (m)
TIME (GMT)

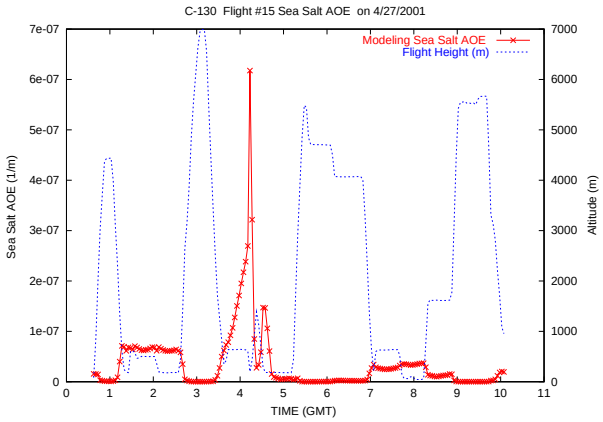

C-130 Flight #15 OC AOE on 4/27/2001
Modeling OC AOE
Flight Height (m)
OC AOE (1/m)
Altitude (m)
TIME (GMT)

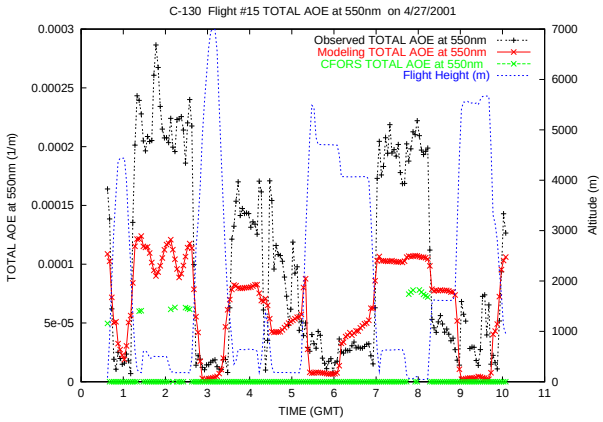

C-130 Flight #15 Sulfate AOE on 4/27/2001
Modeling Sulfate AOE
Flight Height (m)
Sulfate AOE (1/m)
Altitude (m)
TIME (GMT)

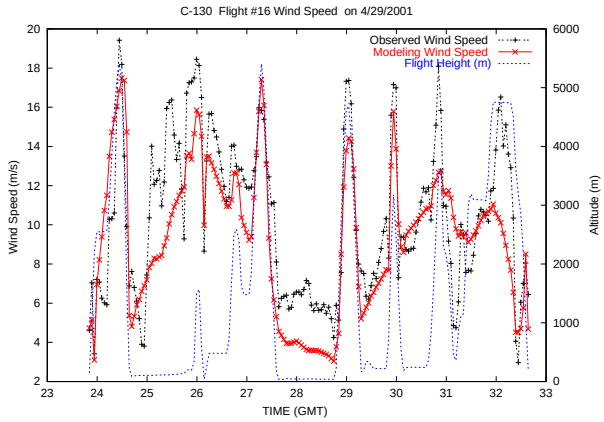

C-130 Flight #15 Dust AOE on 4/27/2001
Modeling Dust AOE
Flight Height (m)
Dust AOE (1/m)
Altitude (m)
TIME (GMT)

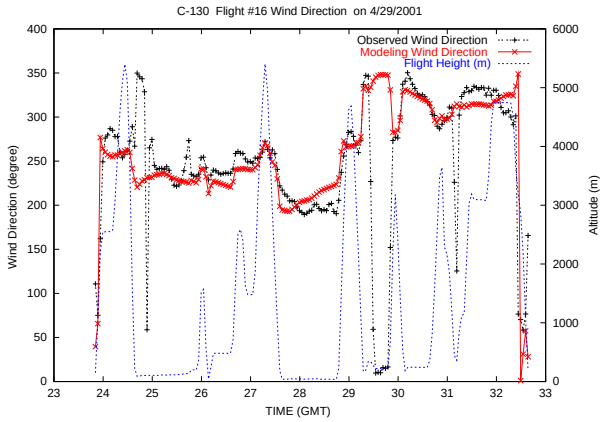

C-130 Flight #15 Other PM2.5 AOE on 4/27/2001
Modeling Other PM2.5 AOE
Flight Height (m)
Other PM2.5 AOE (1/m)
Altitude (m)
TIME (GMT)

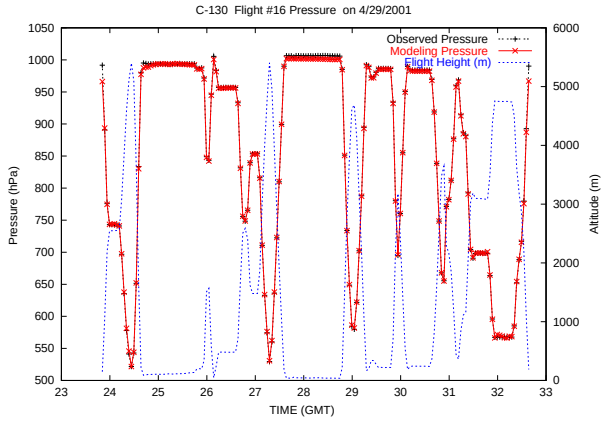

C-130 Flight #15 Other PM10 AOE on 4/27/2001
Modeling Other PM10 AOE
Flight Height (m)
Other PM10 AOE (1/m)
Altitude (m)
TIME (GMT)

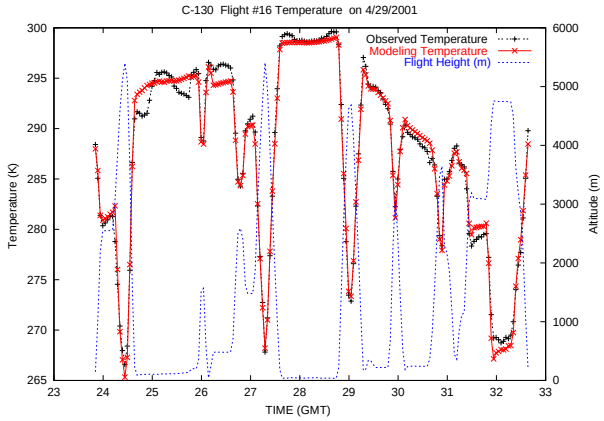

C-130 Flight #15 Sea Salt AOE on 4/27/2001
Modeling Sea Salt AOE
Flight Height (m)
Sea Salt AOE (1/m)
Altitude (m)
TIME (GMT)

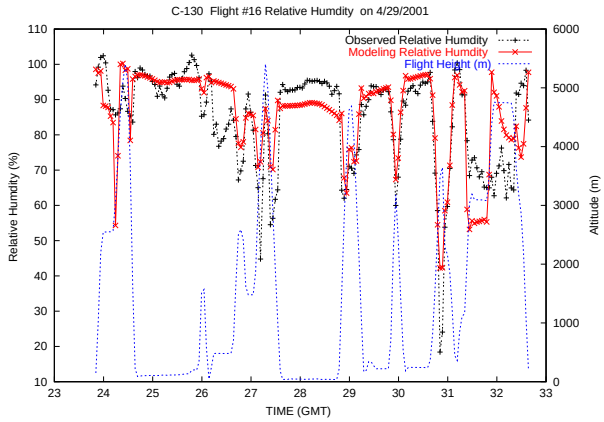

C-130 Flight #15 TOTAL AOE at 550nm on 4/27/2001
Observed TOTAL AOE at 550nm
Modeling TOTAL AOE at 550nm
CFORS TOTAL AOE at 550nm
Flight Height (m)
TOTAL AOE at 550nm (1/m)
Altitude (m)
TIME (GMT)

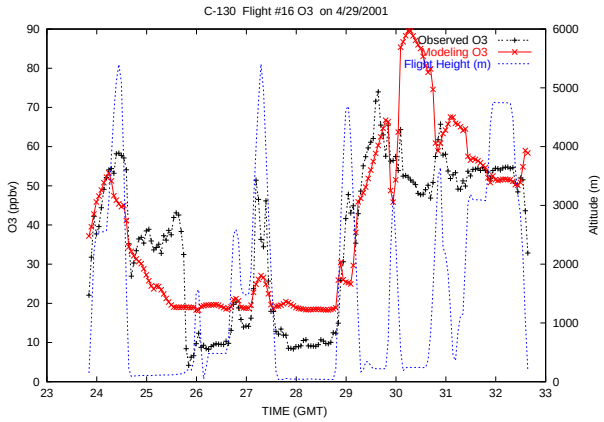

C-130 Flight #16 Wind Speed on 4/29/2001
Observed Wind Speed
Modeling Wind Speed
Flight Height (m)
Wind Speed (m/s)
Altitude (m)
TIME (GMT)

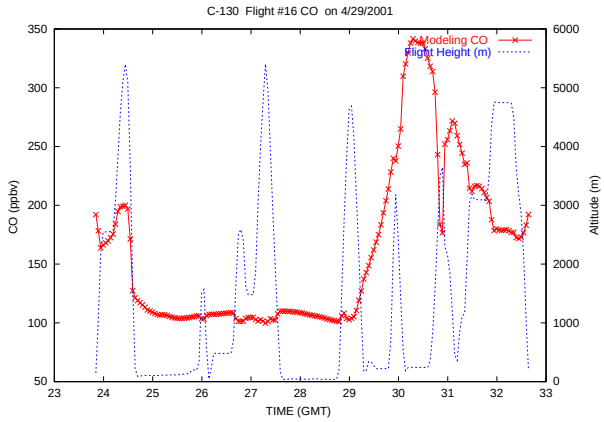

C-130 Flight #16 Wind Direction on 4/29/2001
Observed Wind Direction
Modeling Wind Direction
Flight Height (m)
Wind Direction (degree)
Altitude (m)
TIME (GMT)

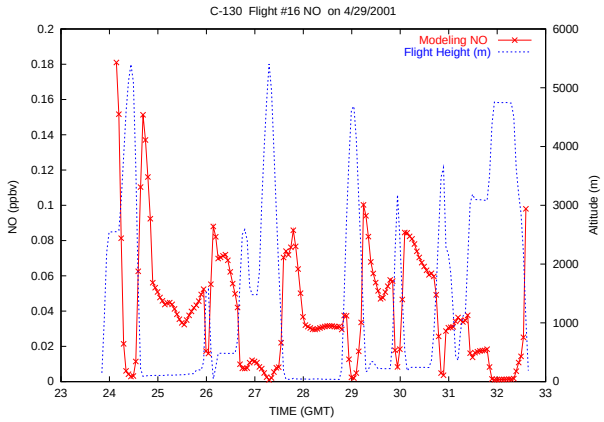

C-130 Flight #16 Pressure on 4/29/2001
Observed Pressure
Modeling Pressure
Flight Height (m)
Pressure (hPa)
Altitude (m)
TIME (GMT)

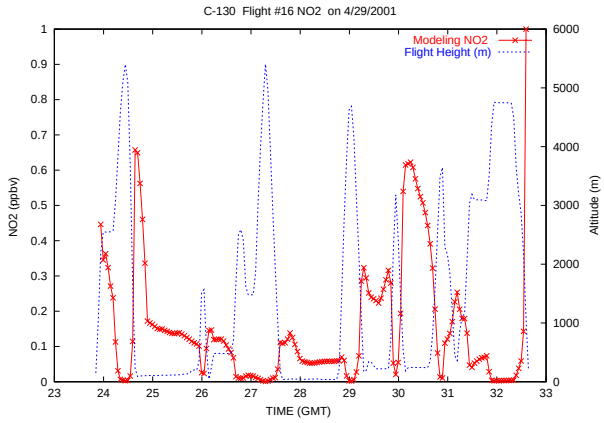

C-130 Flight #16 Temperature on 4/29/2001
Observed Temperature
Modeling Temperature
Flight Height (m)
Temperature (K)
Altitude (m)
TIME (GMT)

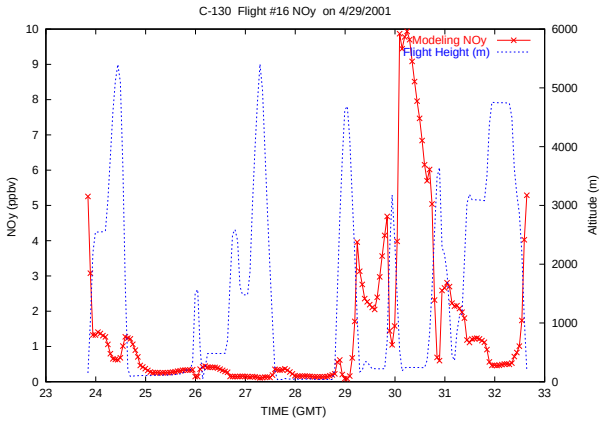

C-130 Flight #16 Relative Humdity on 4/29/2001
Observed Relative Humdity
Modeling Relative Humdity
Flight Height (m)
Relative Humdity (%)
Altitude (m)
TIME (GMT)

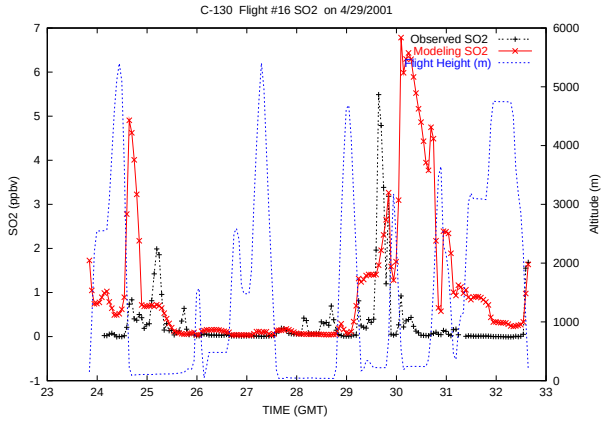

C-130 Flight #16 O3 on 4/29/2001
Observed O3
Modeling O3
Flight Height (m)
O3 (ppbv)
Altitude (m)
TIME (GMT)

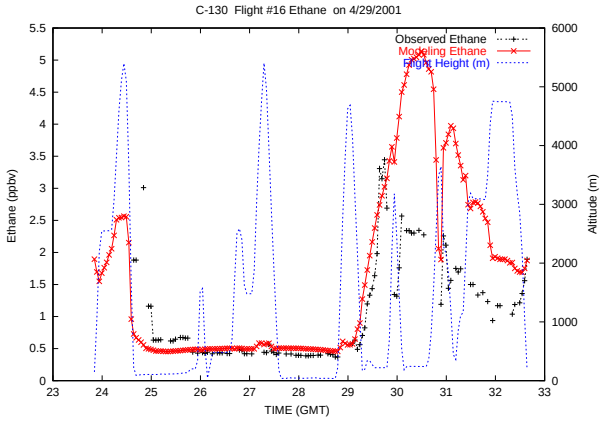

C-130 Flight #16 CO on 4/29/2001
Modeling CO
Flight Height (m)
CO (ppbv)
Altitude (m)
TIME (GMT)

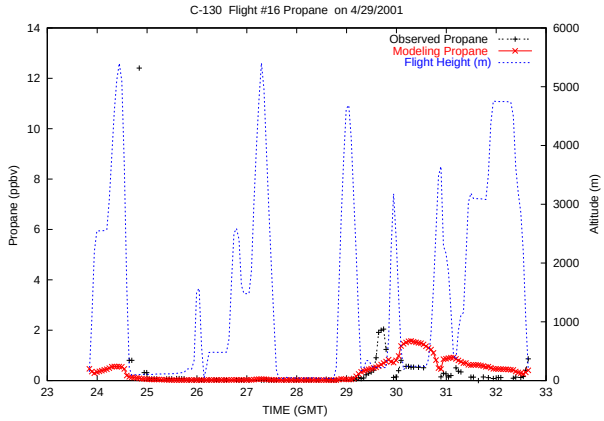

C-130 Flight #16 NO on 4/29/2001
Modeling NO
Flight Height (m)
NO (ppbv)
Altitude (m)
TIME (GMT)

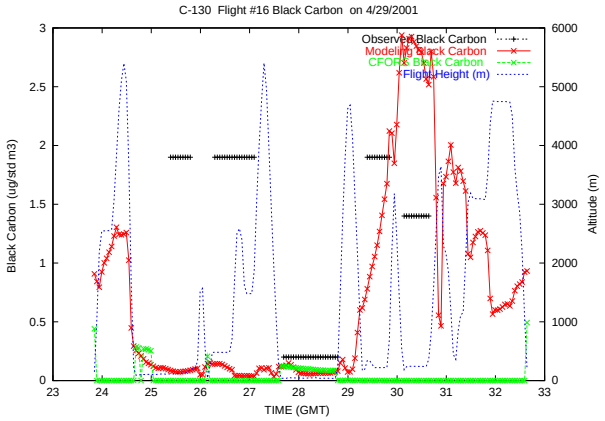

C-130 Flight #16 NO2 on 4/29/2001
Modeling NO2
Flight Height (m)
NO2 (ppbv)
Altitude (m)
TIME (GMT)

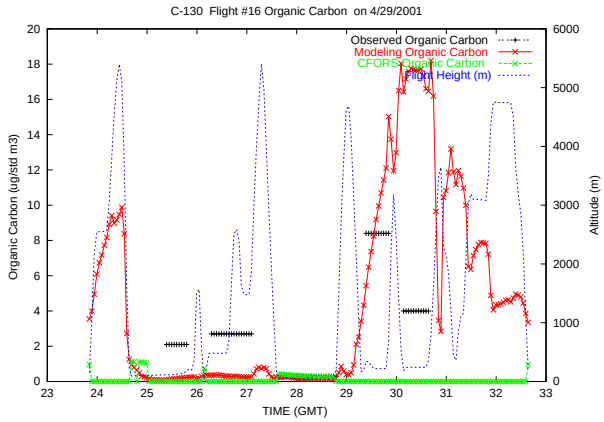

C-130 Flight #16 NOy on 4/29/2001
Modeling NOy
Flight Height (m)
NOy (ppbv)
Altitude (m)
TIME (GMT)

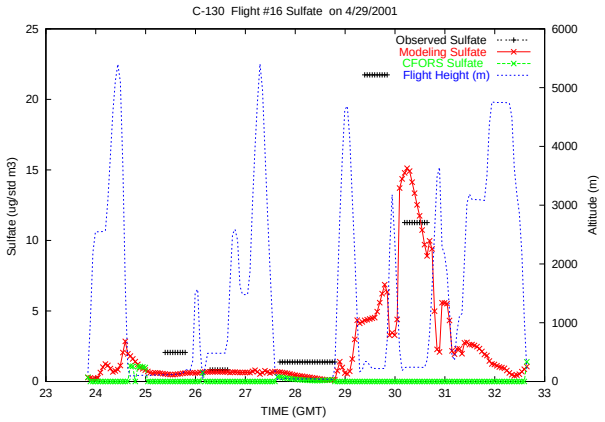

C-130 Flight #16 SO2 on 4/29/2001
Observed SO2
Modeling SO2
Flight Height (m)
SO2 (ppbv)
Altitude (m)
TIME (GMT)

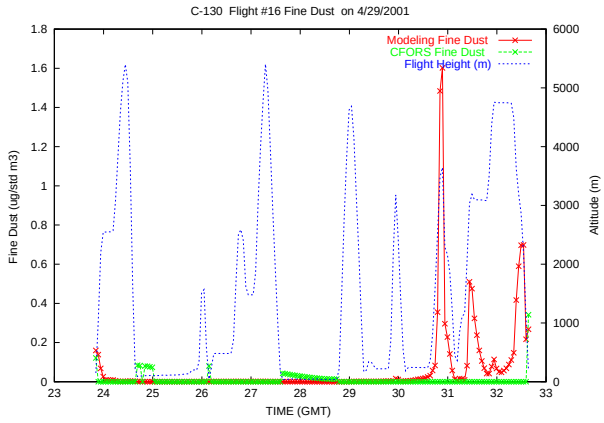

C-130 Flight #16 Ethane on 4/29/2001
Observed Ethane
Modeling Ethane
Flight Height (m)
Ethane (ppbv)
Altitude (m)
TIME (GMT)

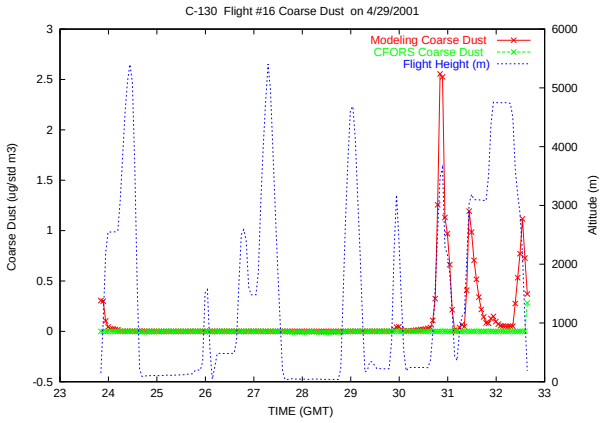

C-130 Flight #16 Propane on 4/29/2001
Observed Propane
Modeling Propane
Flight Height (m)
Propane (ppbv)
Altitude (m)
TIME (GMT)

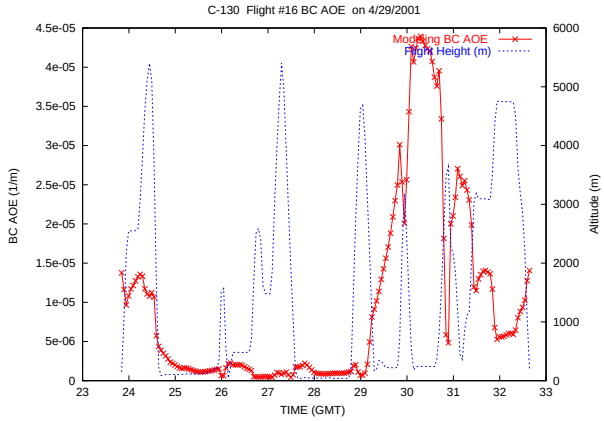

C-130 Flight #16 Black Carbon on 4/29/2001
Observed Black Carbon
Modeling Black Carbon
CFORS Black Carbon
Flight Height (m)
Black Carbon (ug/std m3)
Altitude (m)
TIME (GMT)

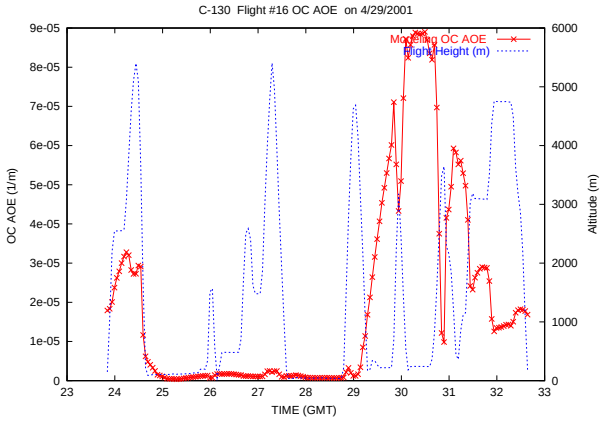

C-130 Flight #16 Organic Carbon on 4/29/2001
Observed Organic Carbon
Modeling Organic Carbon
CFORS Organic Carbon
Flight Height (m)
Organic Carbon (ug/std m3)
Altitude (m)
TIME (GMT)

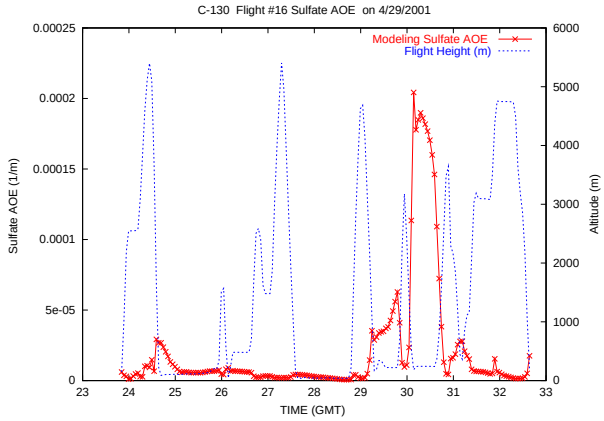

C-130 Flight #16 Sulfate on 4/29/2001
Observed Sulfate
Modeling Sulfate
CFORS Sulfate
Flight Height (m)
Sulfate (ug/std m3)
Altitude (m)
TIME (GMT)

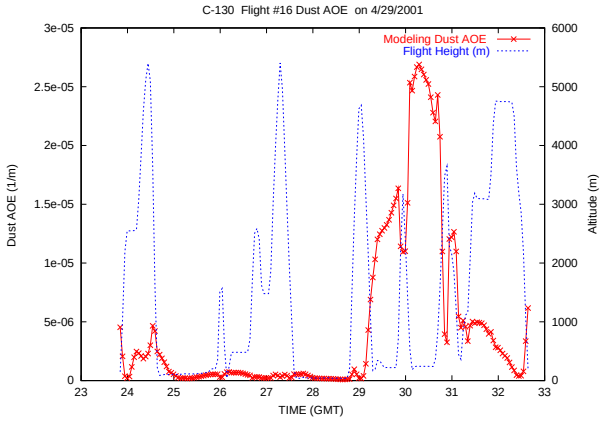

C-130 Flight #16 Fine Dust on 4/29/2001
Modeling Fine Dust
CFORS Fine Dust
Flight Height (m)
Fine Dust (ug/std m3)
Altitude (m)
TIME (GMT)

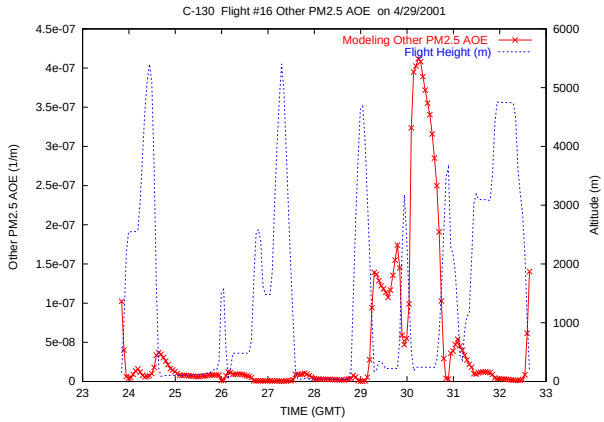

C-130 Flight #16 Coarse Dust on 4/29/2001
Modeling Coarse Dust
CFORS Coarse Dust
Flight Height (m)
Coarse Dust (ug/std m3)
Altitude (m)
TIME (GMT)

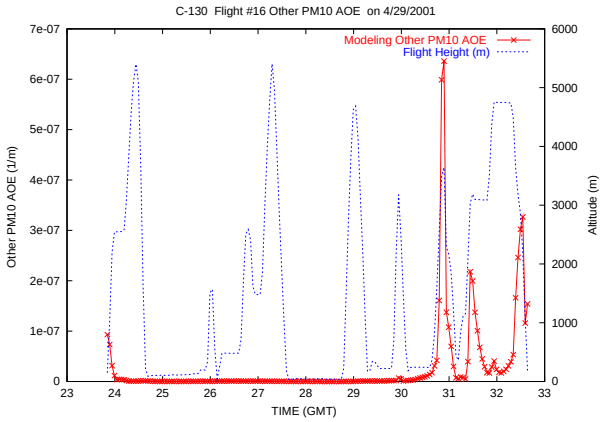

C-130 Flight #16 BC AOE on 4/29/2001
Modeling BC AOE
Flight Height (m)
BC AOE (1/m)
Altitude (m)
TIME (GMT)

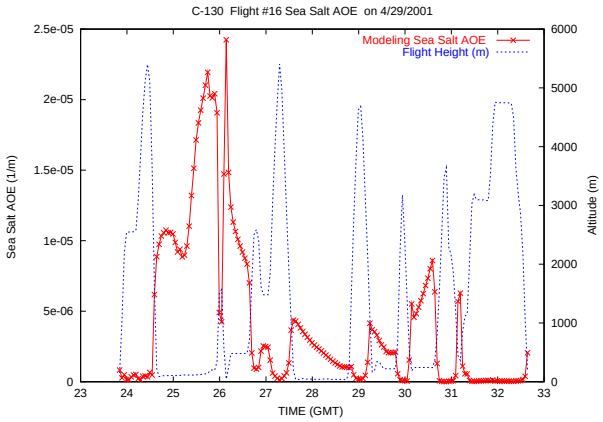

C-130 Flight #16 OC AOE on 4/29/2001
Modeling OC AOE
Flight Height (m)
OC AOE (1/m)
Altitude (m)
TIME (GMT)

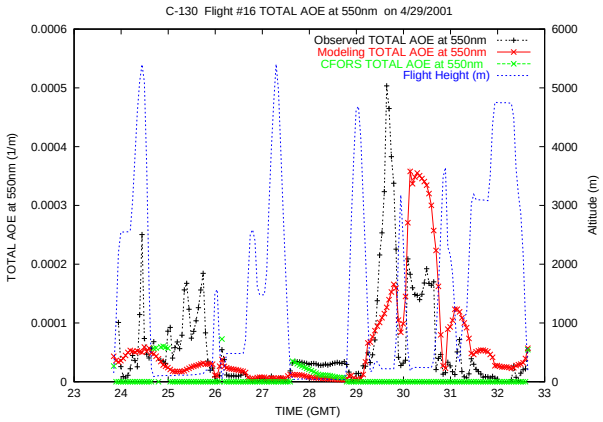

C-130 Flight #16 Sulfate AOE on 4/29/2001
Modeling Sulfate AOE
Flight Height (m)
Sulfate AOE (1/m)
Altitude (m)
TIME (GMT)

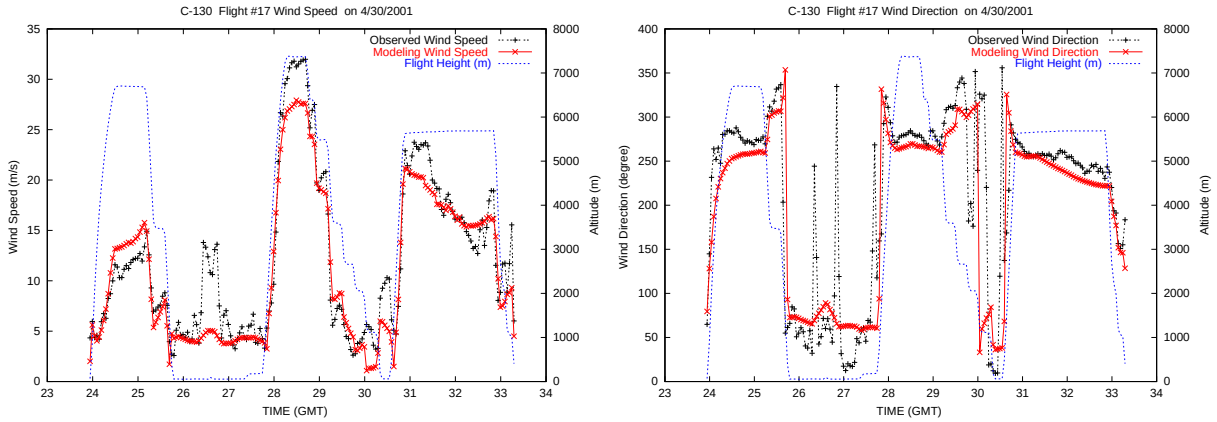

C-130 Flight #16 Dust AOE on 4/29/2001
Modeling Dust AOE
Flight Height (m)
Dust AOE (1/m)
Altitude (m)
TIME (GMT)


C-130 Flight #16 Other PM2.5 AOE on 4/29/2001
Modeling Other PM2.5 AOE
Flight Height (m)
Other PM2.5 AOE (1/m)
Altitude (m)
TIME (GMT)

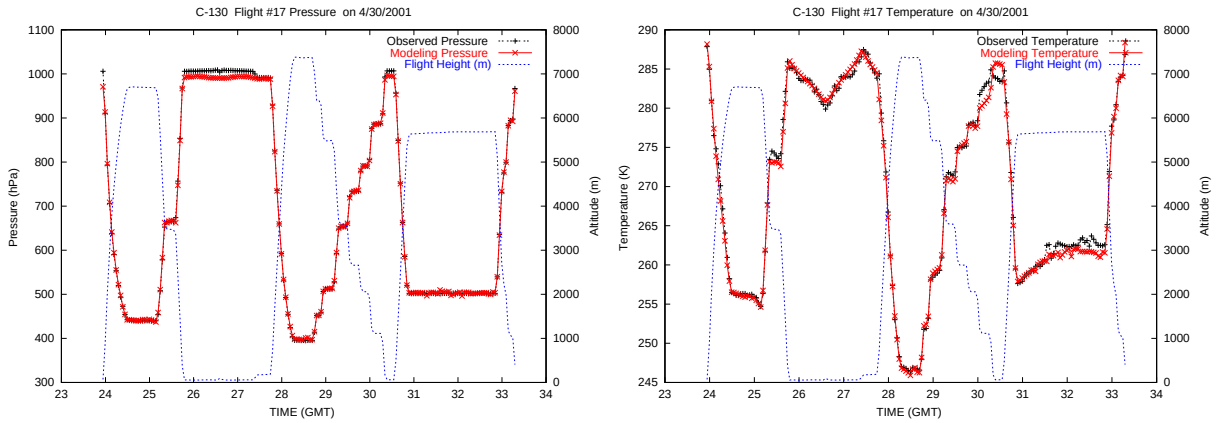

C-130 Flight #16 Other PM10 AOE on 4/29/2001
Modeling Other PM10 AOE
Flight Height (m)
Other PM10 AOE (1/m)
Altitude (m)
TIME (GMT)


C-130 Flight #16 Sea Salt AOE on 4/29/2001
Modeling Sea Salt AOE
Flight Height (m)
Sea Salt AOE (1/m)
Altitude (m)
TIME (GMT)
2.5e-05
2e-05
1.5e-05
1e-05
5e-06
0
6000
5000
4000
3000
2000
1000
0
23
24
25
26
27
28
29
30
31
32
33

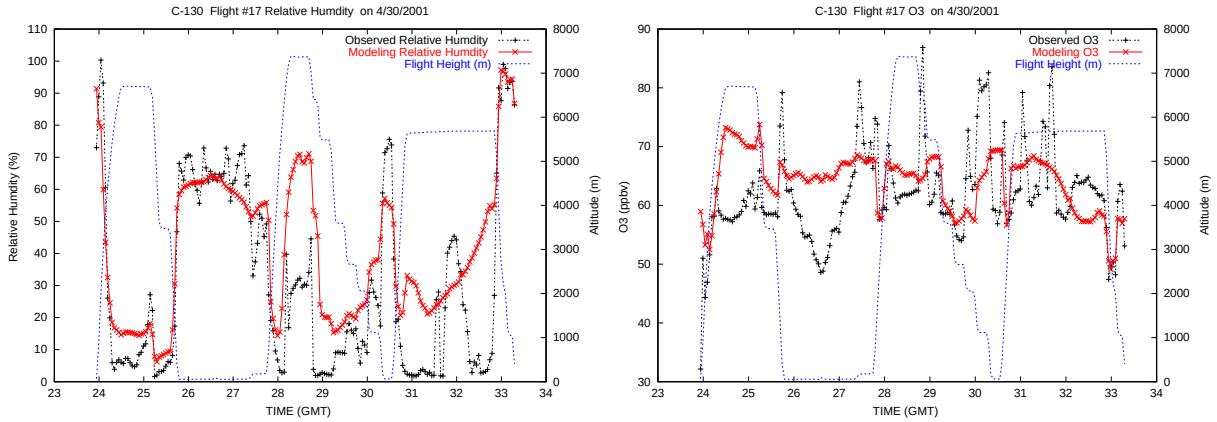

C-130 Flight #16 TOTAL AOE at 550nm on 4/29/2001
Observed TOTAL AOE at 550nm
Modeling TOTAL AOE at 550nm
CFORS TOTAL AOE at 550nm
Flight Height (m)
TOTAL AOE at 550nm (1/m)
Altitude (m)
TIME (GMT)
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0
6000
5000
4000
3000
2000
1000
0
23
24
25
26
27
28
29
30
31
32
33


C-130 Flight #17 Wind Speed on 4/30/2001
Observed Wind Speed
Modeling Wind Speed
Flight Height (m)
Wind Speed (m/s)
Altitude (m)
TIME (GMT)

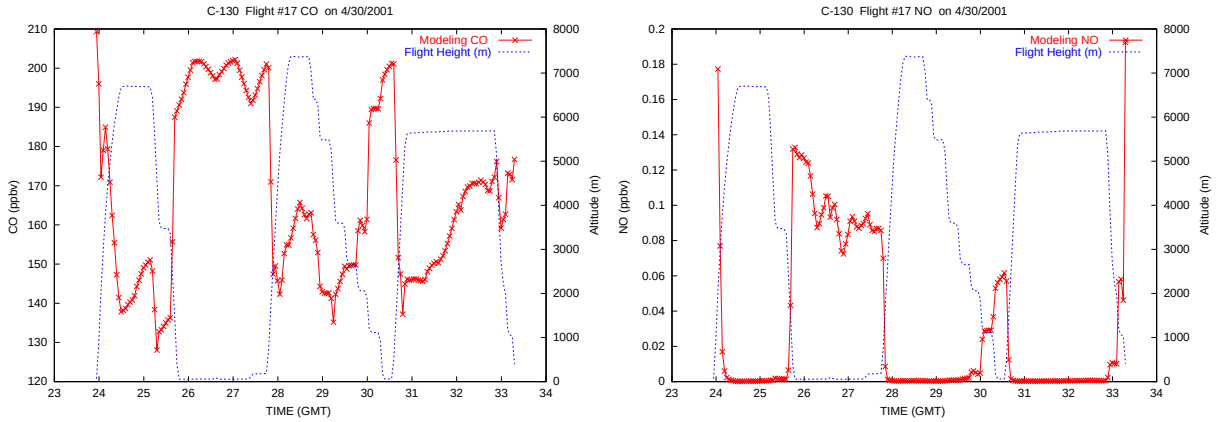

C-130 Flight #17 Wind Direction on 4/30/2001
Observed Wind Direction
Modeling Wind Direction
Flight Height (m)
Wind Direction (degree)
Altitude (m)
TIME (GMT)


C-130 Flight #17 Pressure on 4/30/2001
Observed Pressure
Modeling Pressure
Flight Height (m)
Pressure (hPa)
Altitude (m)
TIME (GMT)

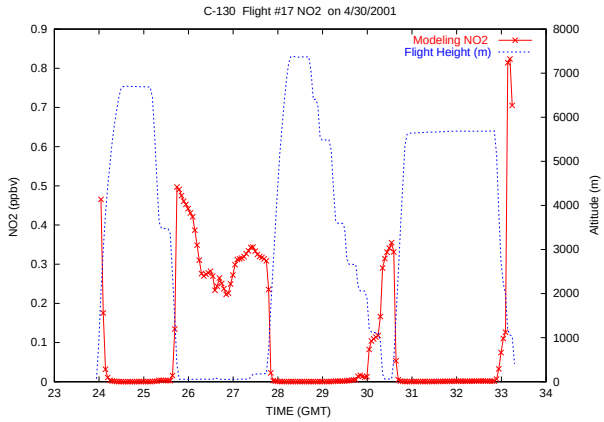

C-130 Flight #17 Temperature on 4/30/2001
Observed Temperature
Modeling Temperature
Flight Height (m)
Temperature (K)
Altitude (m)
TIME (GMT)

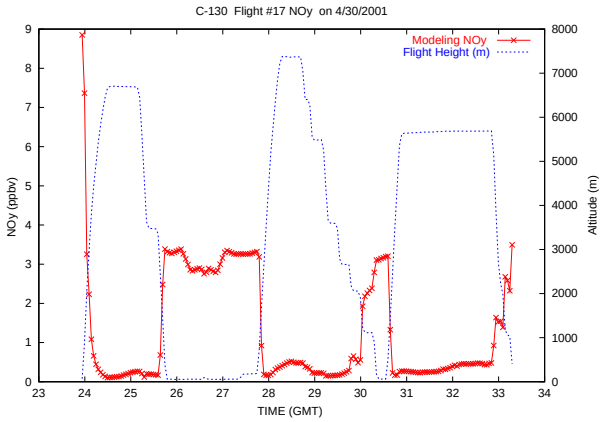

C-130 Flight #17 Relative Humdity on 4/30/2001
Observed Relative Humdity
Modeling Relative Humdity
Flight Height (m)
Relative Humdity (%)
Altitude (m)
TIME (GMT)

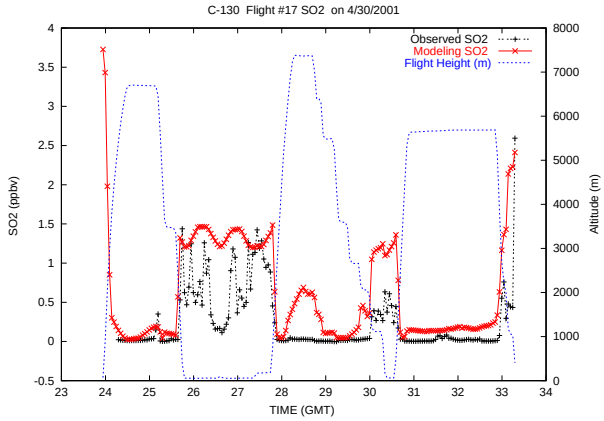

C-130 Flight #17 O3 on 4/30/2001
Observed O3
Modeling O3
Flight Height (m)
O3 (ppbv)
Altitude (m)
TIME (GMT)

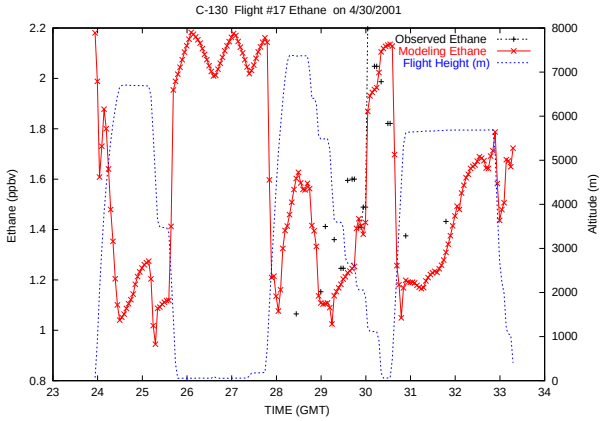

C-130 Flight #17 CO on 4/30/2001
Modeling CO
Flight Height (m)
CO (ppbv)
Altitude (m)
TIME (GMT)

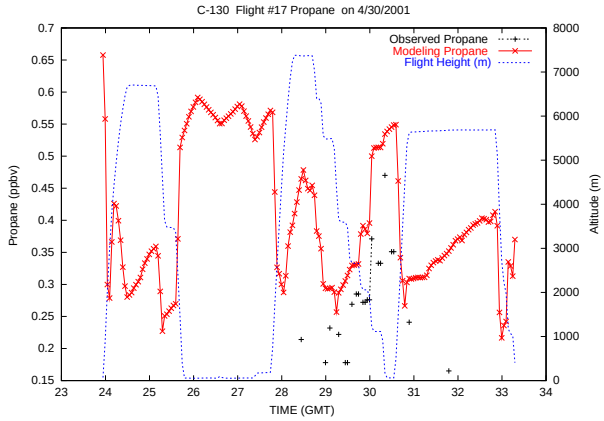

C-130 Flight #17 NO on 4/30/2001
Modeling NO
Flight Height (m)
NO (ppbv)
Altitude (m)
TIME (GMT)

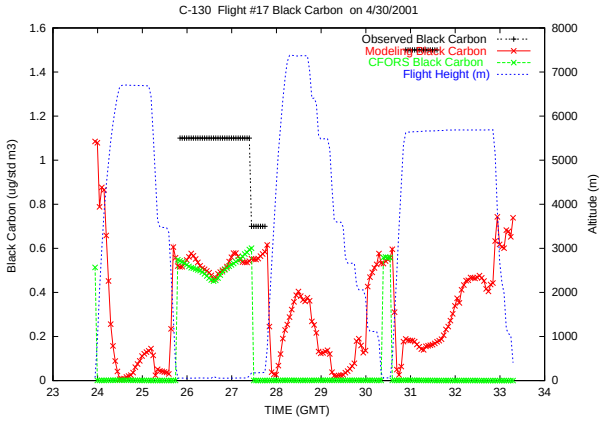

C-130 Flight #17 NO2 on 4/30/2001
Modeling NO2
Flight Height (m)
NO2 (ppbv)
Altitude (m)
TIME (GMT)

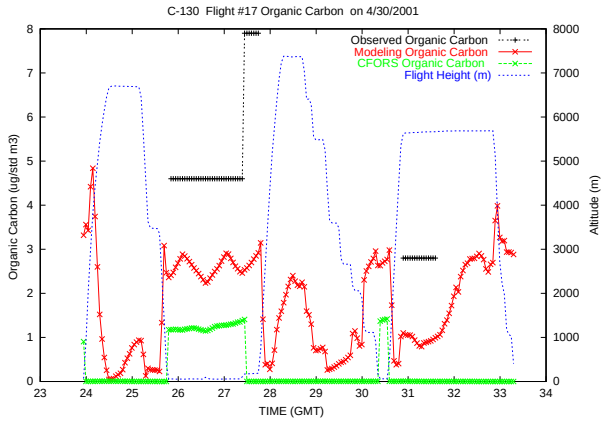

C-130 Flight #17 NOy on 4/30/2001
Modeling NOy
Flight Height (m)
NOy (ppbv)
Altitude (m)
TIME (GMT)

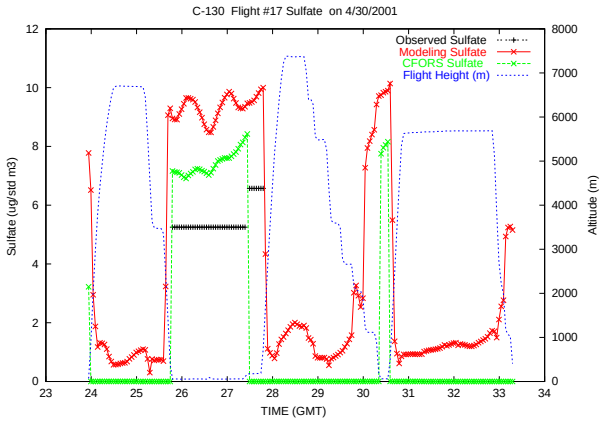

C-130 Flight #17 SO2 on 4/30/2001
Observed SO2
Modeling SO2
Flight Height (m)
SO2 (ppbv)
Altitude (m)
TIME (GMT)

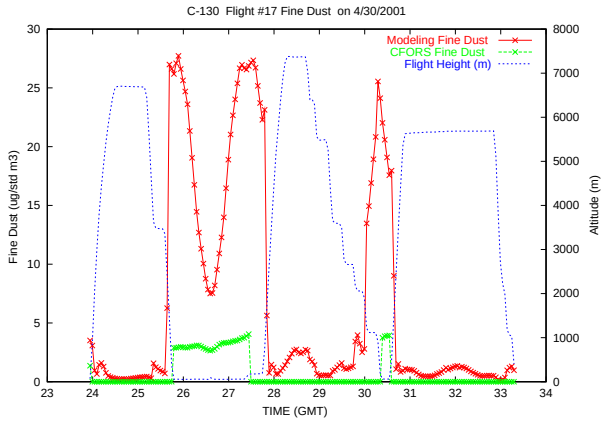

C-130 Flight #17 Ethane on 4/30/2001
Observed Ethane
Modeling Ethane
Flight Height (m)
Ethane (ppbv)
Altitude (m)
TIME (GMT)

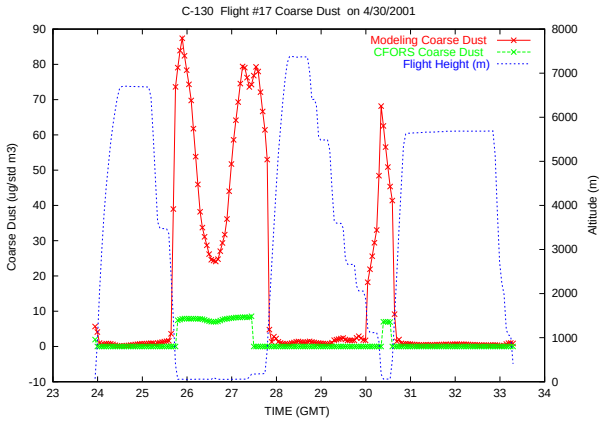

C-130 Flight #17 Propane on 4/30/2001
Observed Propane
Modeling Propane
Flight Height (m)
Propane (ppbv)
Altitude (m)
TIME (GMT)

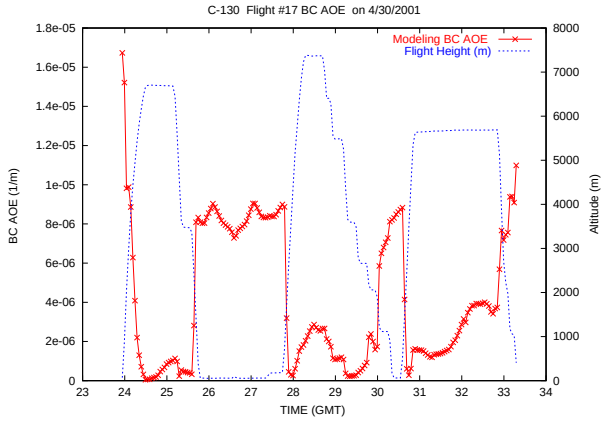

C-130 Flight #17 Black Carbon on 4/30/2001
Observed Black Carbon
Modeling Black Carbon
CFORS Black Carbon
Flight Height (m)
Black Carbon (ug/std m3)
Altitude (m)
TIME (GMT)

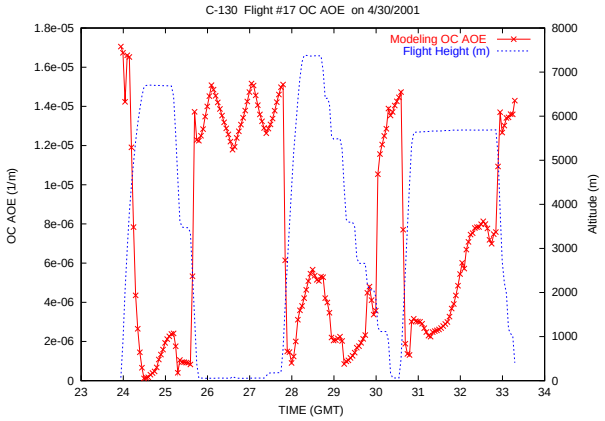

C-130 Flight #17 Organic Carbon on 4/30/2001
Observed Organic Carbon
Modeling Organic Carbon
CFORS Organic Carbon
Flight Height (m)
Organic Carbon (ug/std m3)
Altitude (m)
TIME (GMT)

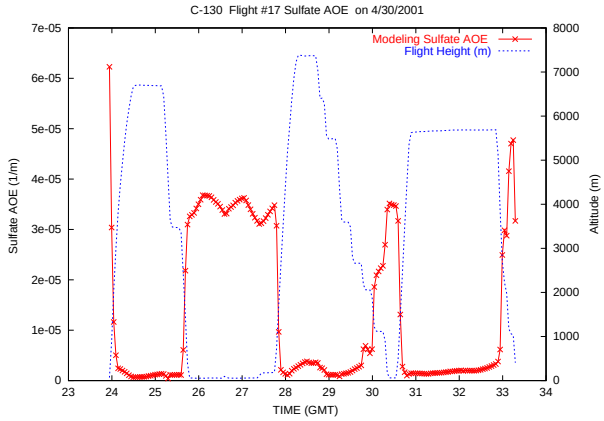

C-130 Flight #17 Sulfate on 4/30/2001
Observed Sulfate
Modeling Sulfate
CFORS Sulfate
Flight Height (m)
Sulfate (ug/std m3)
Altitude (m)
TIME (GMT)

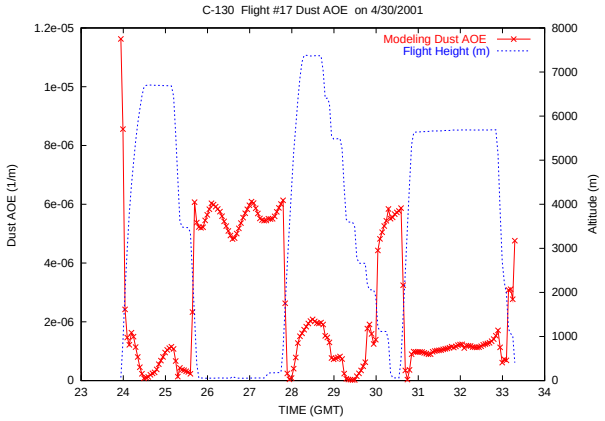

C-130 Flight #17 Fine Dust on 4/30/2001
Modeling Fine Dust
CFORS Fine Dust
Flight Height (m)
Fine Dust (ug/std m3)
Altitude (m)
TIME (GMT)

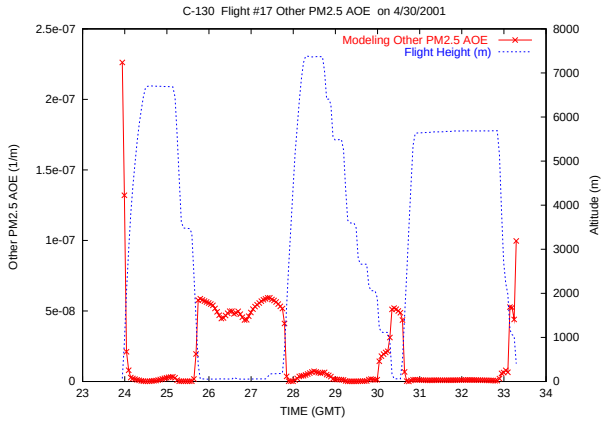

C-130 Flight #17 Coarse Dust on 4/30/2001
Modeling Coarse Dust
CFORS Coarse Dust
Flight Height (m)
Coarse Dust (ug/std m3)
Altitude (m)
TIME (GMT)

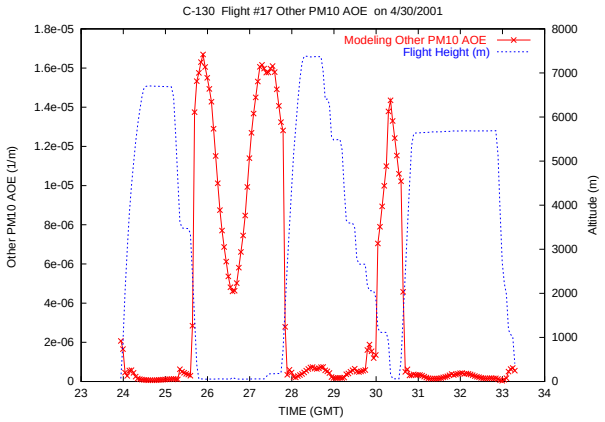

C-130 Flight #17 BC AOE on 4/30/2001
Modeling BC AOE
Flight Height (m)
BC AOE (1/m)
Altitude (m)
TIME (GMT)

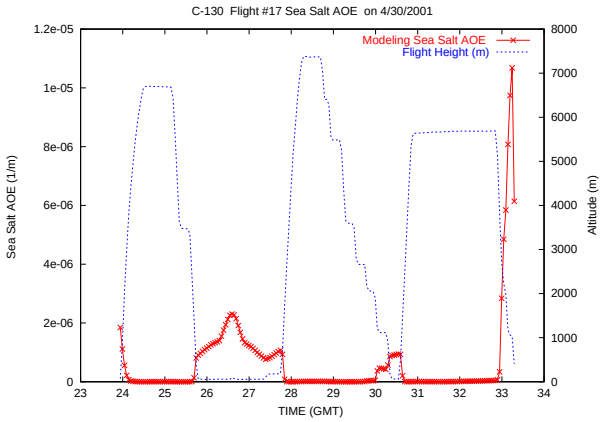

C-130 Flight #17 OC AOE on 4/30/2001
Modeling OC AOE
Flight Height (m)
OC AOE (1/m)
Altitude (m)
TIME (GMT)

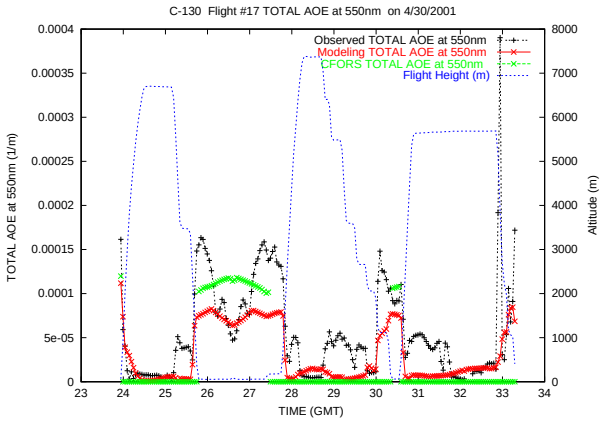

C-130 Flight #17 Sulfate AOE on 4/30/2001
Modeling Sulfate AOE
Flight Height (m)
Sulfate AOE (1/m)
Altitude (m)
TIME (GMT)


C-130 Flight #17 Dust AOE on 4/30/2001
Modeling Dust AOE
Flight Height (m)
Dust AOE (1/m)
Altitude (m)
TIME (GMT)


C-130 Flight #17 Other PM2.5 AOE on 4/30/2001
Modeling Other PM2.5 AOE
Flight Height (m)
Other PM2.5 AOE (1/m)
Altitude (m)
TIME (GMT)


C-130 Flight #17 Other PM10 AOE on 4/30/2001
Modeling Other PM10 AOE
Flight Height (m)
Other PM10 AOE (1/m)
Altitude (m)
TIME (GMT)


C-130 Flight #17 Sea Salt AOE on 4/30/2001
Modeling Sea Salt AOE
Flight Height (m)
Sea Salt AOE (1/m)
Altitude (m)
TIME (GMT)


C-130 Flight #17 TOTAL AOE at 550nm on 4/30/2001
Observed TOTAL AOE at 550nm
Modeling TOTAL AOE at 550nm
CFORS TOTAL AOE at 550nm
Flight Height (m)
TOTAL AOE at 550nm (1/m)
Altitude (m)
TIME (GMT)