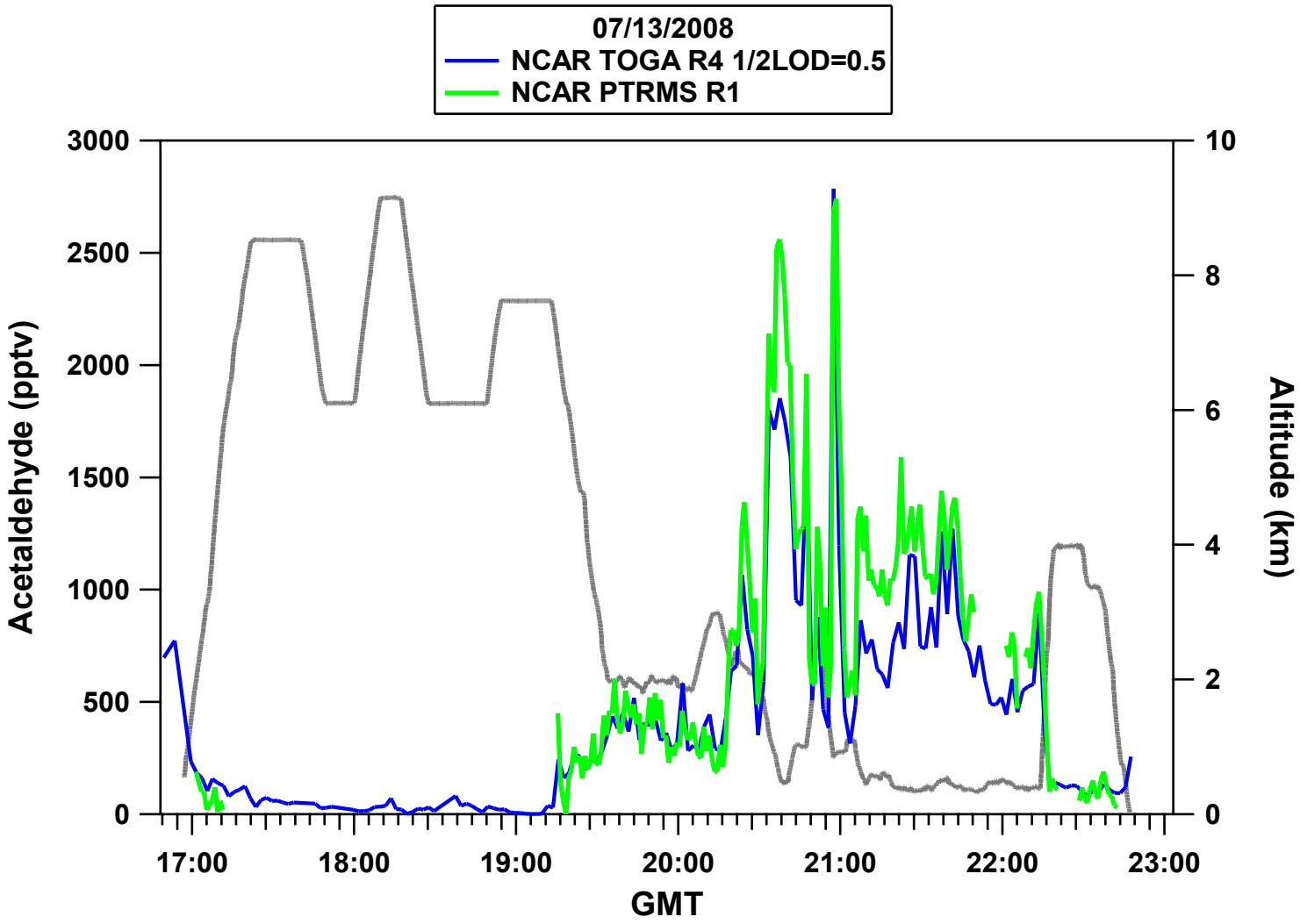
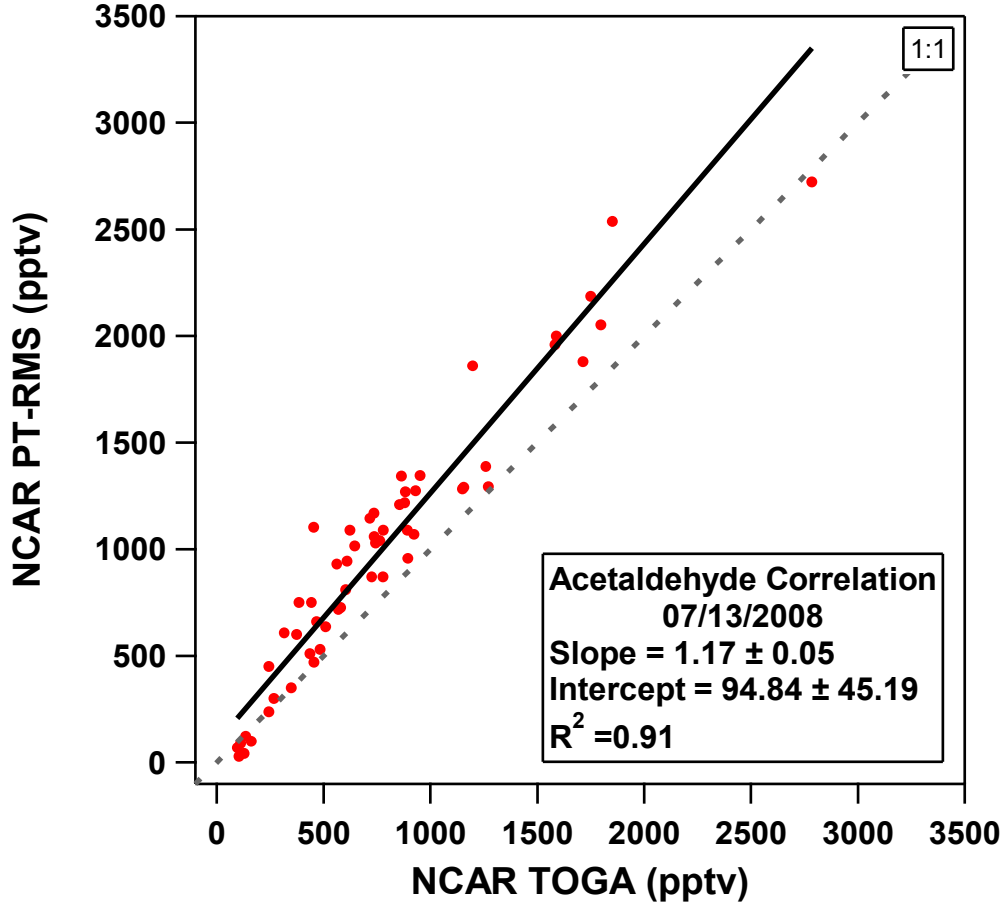
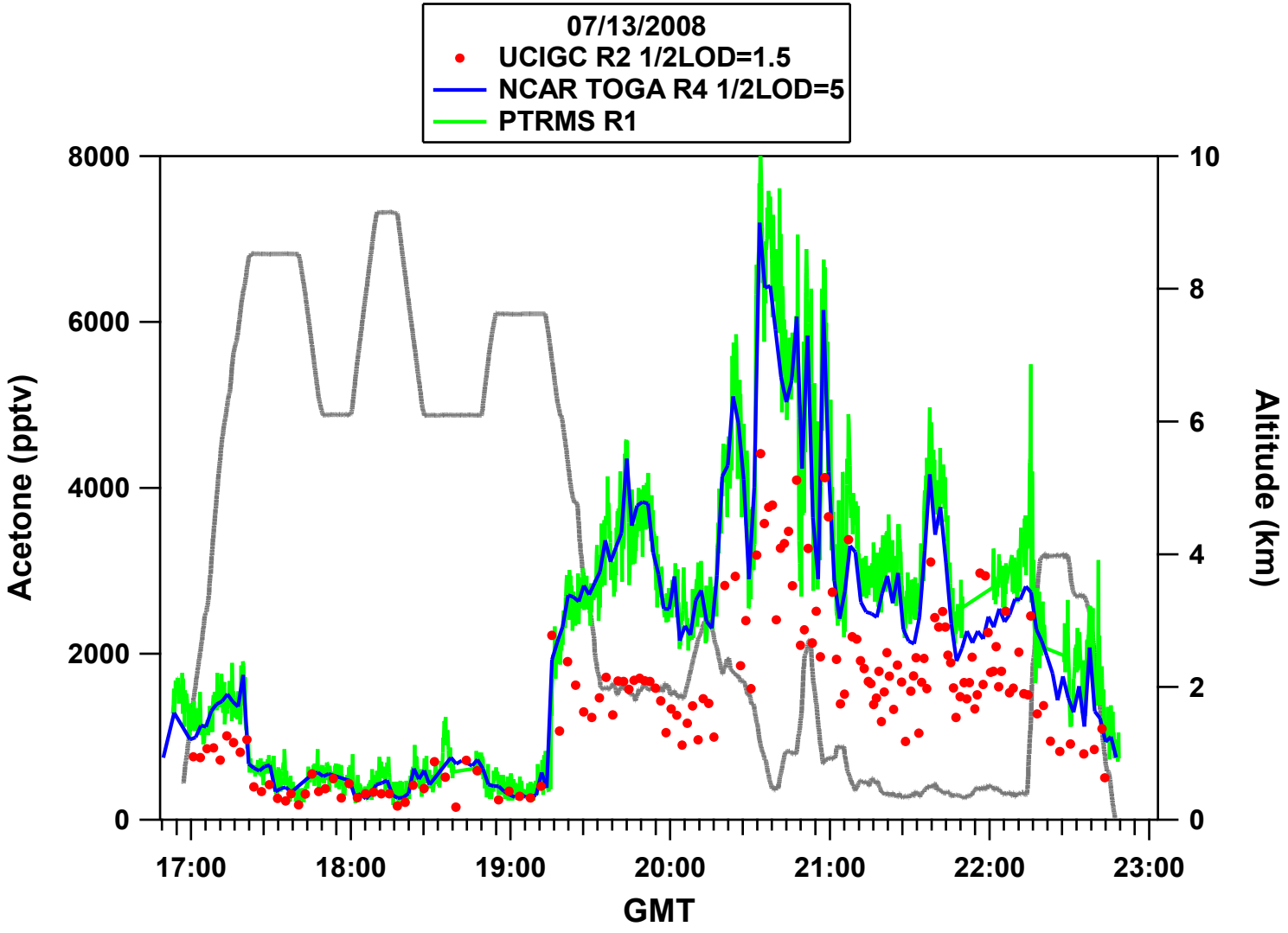
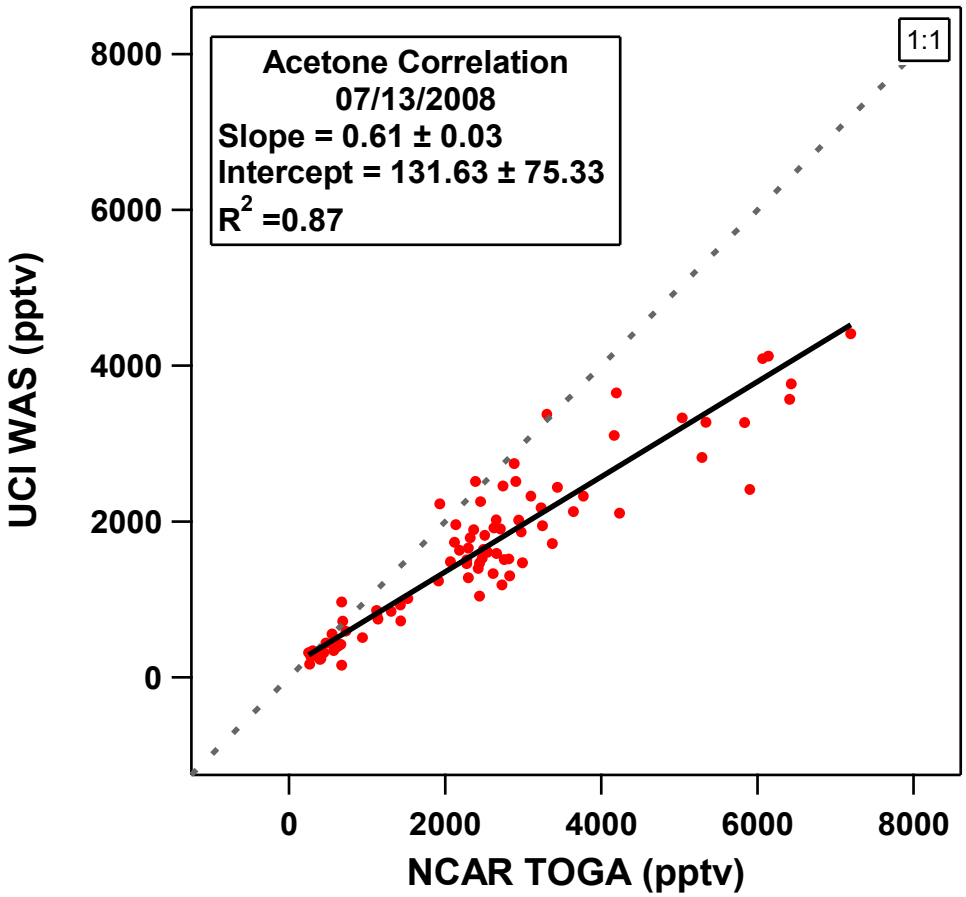
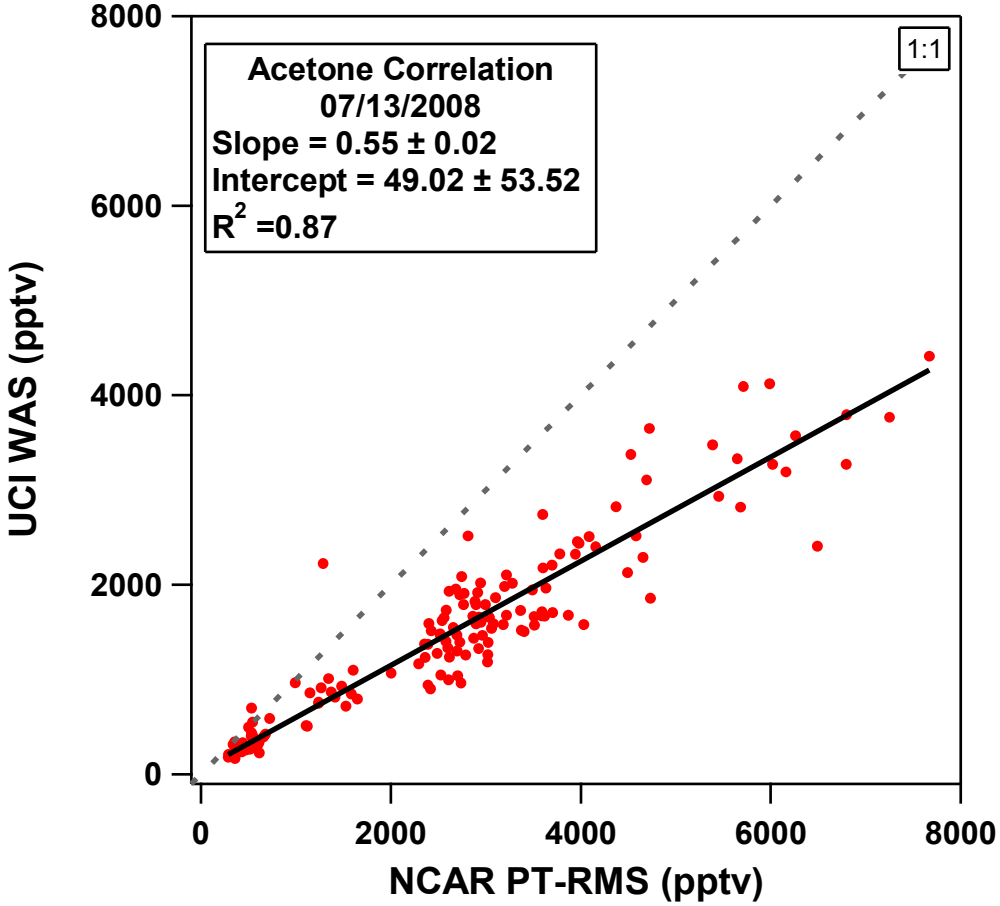
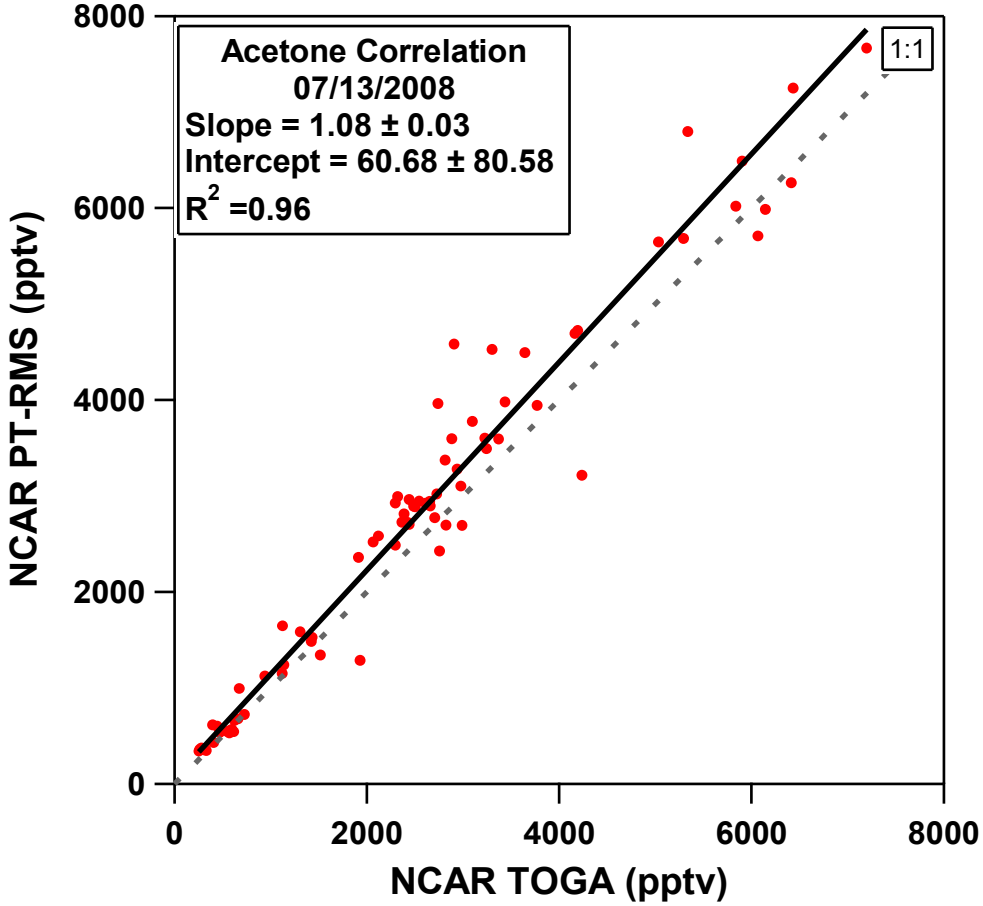

07/13/2008
NCAR TOGA R4 1/2LOD=0.5
NCAR PTRMS R1
Acetaldehyde (pptv)
Altitude (km)
GMT
3000
2500
2000
1500
1000
500
0
10
8
6
4
2
0
17:00
18:00
19:00
20:00
21:00
22:00
23:00

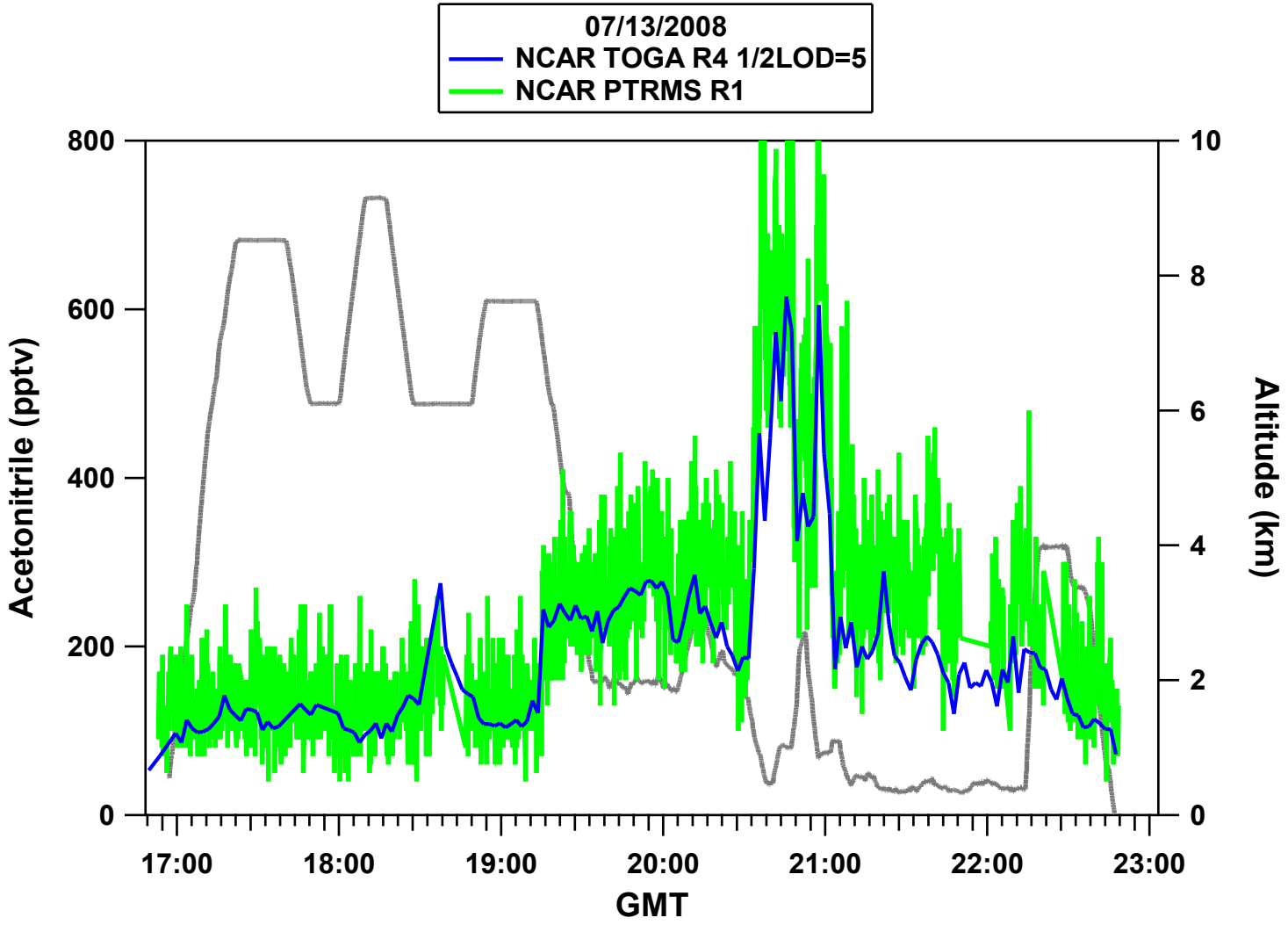

1:1
Acetaldehyde Correlation
07/13/2008
Slope = 1.17 ± 0.05
Intercept = 94.84 ± 45.19
R2 =0.91
NCAR PT-RMS (pptv)
NCAR TOGA (pptv)
0
500
1000
1500
2000
2500
3000
3500

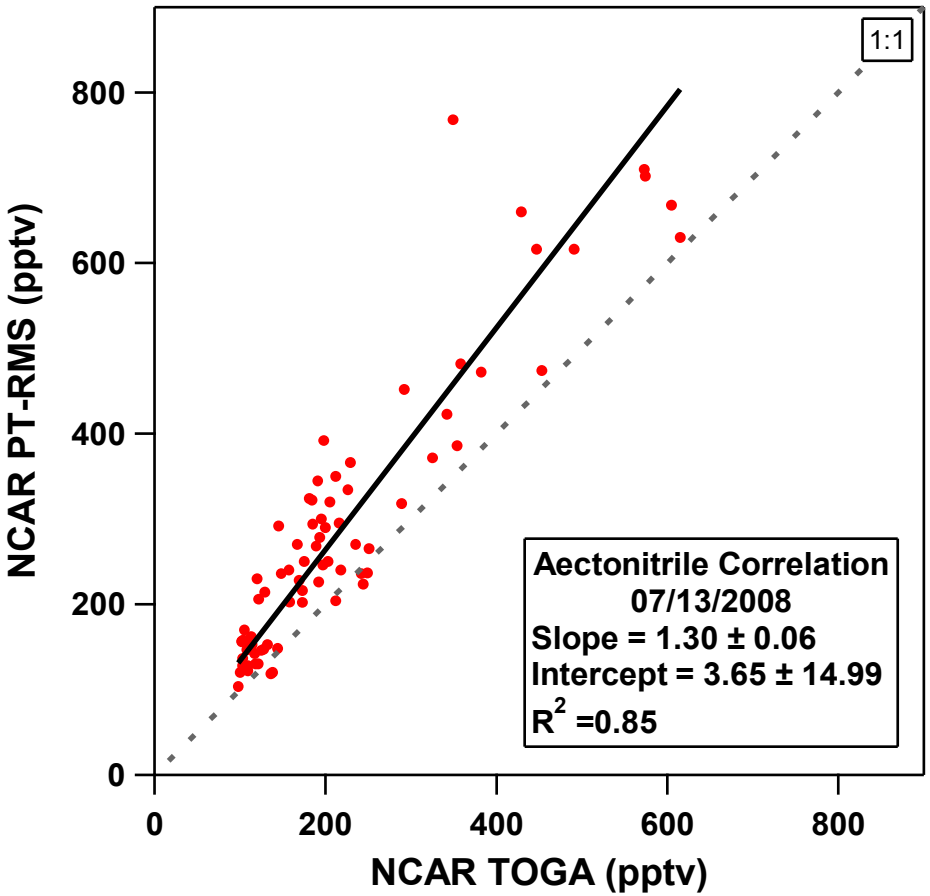

07/13/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=5
PTRMS R1
Acetone (pptv)
Altitude (km)
GMT
8000
6000
4000
2000
0
10
8
6
4
2
0
17:00
18:00
19:00
20:00
21:00
22:00
23:00

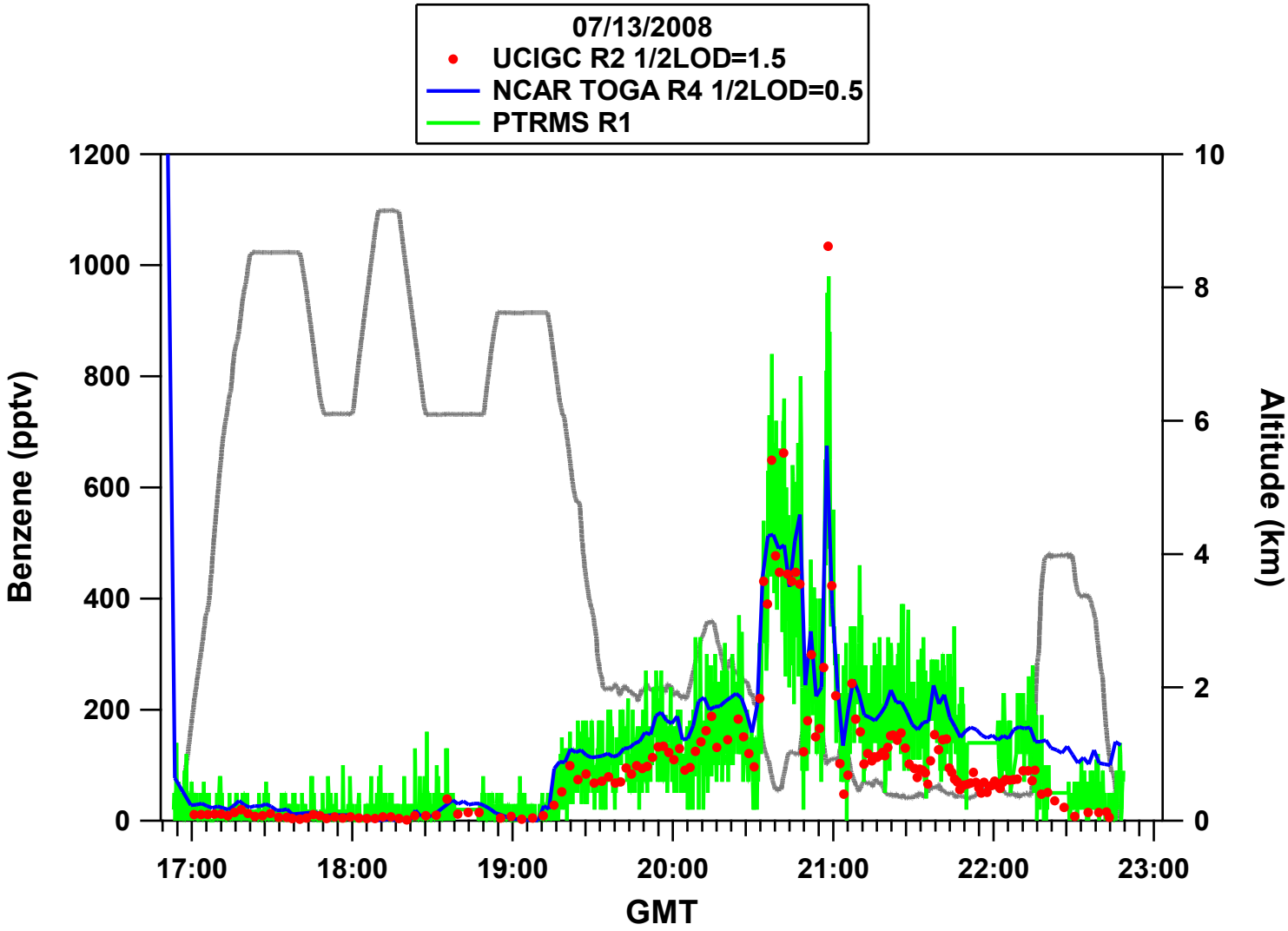

Acetone Correlation
07/13/2008
Slope = 0.61 ± 0.03
Intercept = 131.63 ± 75.33
R2 =0.87
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
8000
6000
4000
2000
0
0
2000
4000
6000
8000

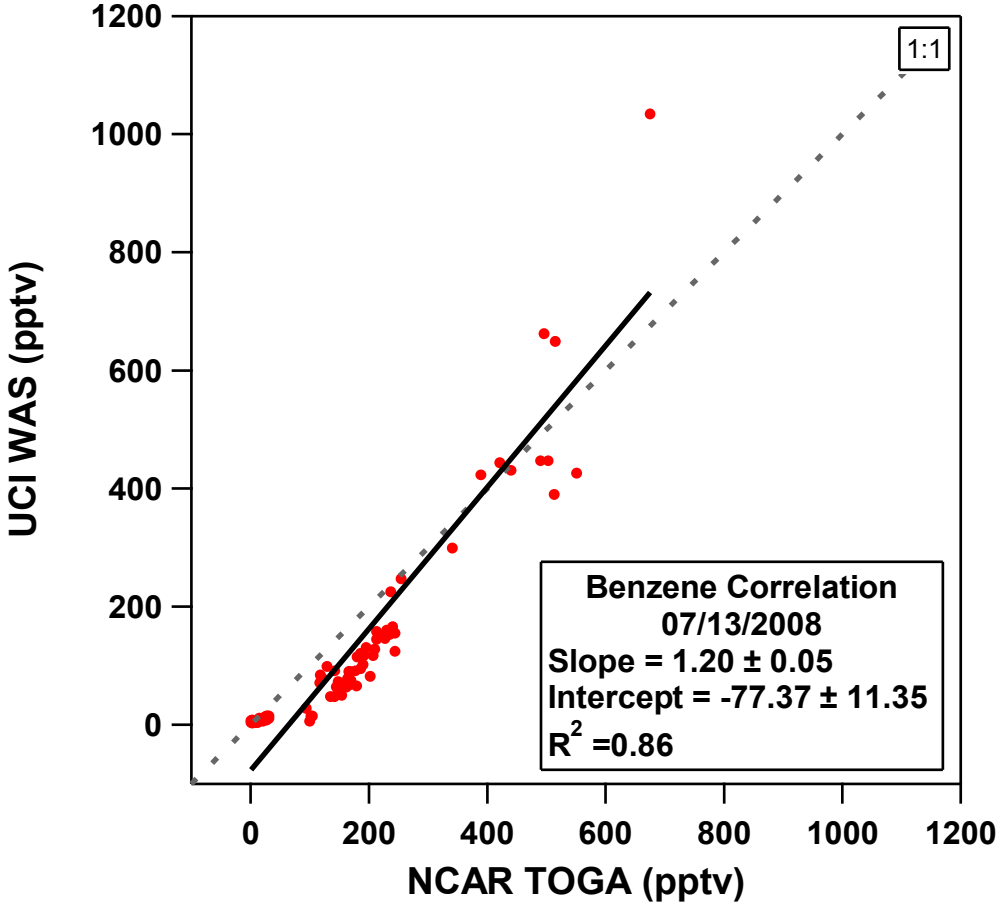

Acetone Correlation
07/13/2008
Slope = 0.55 ± 0.02
Intercept = 49.02 ± 53.52
R2 =0.87
1:1
UCI WAS (pptv)
NCAR PT-RMS (pptv)
0
2000
4000
6000
8000

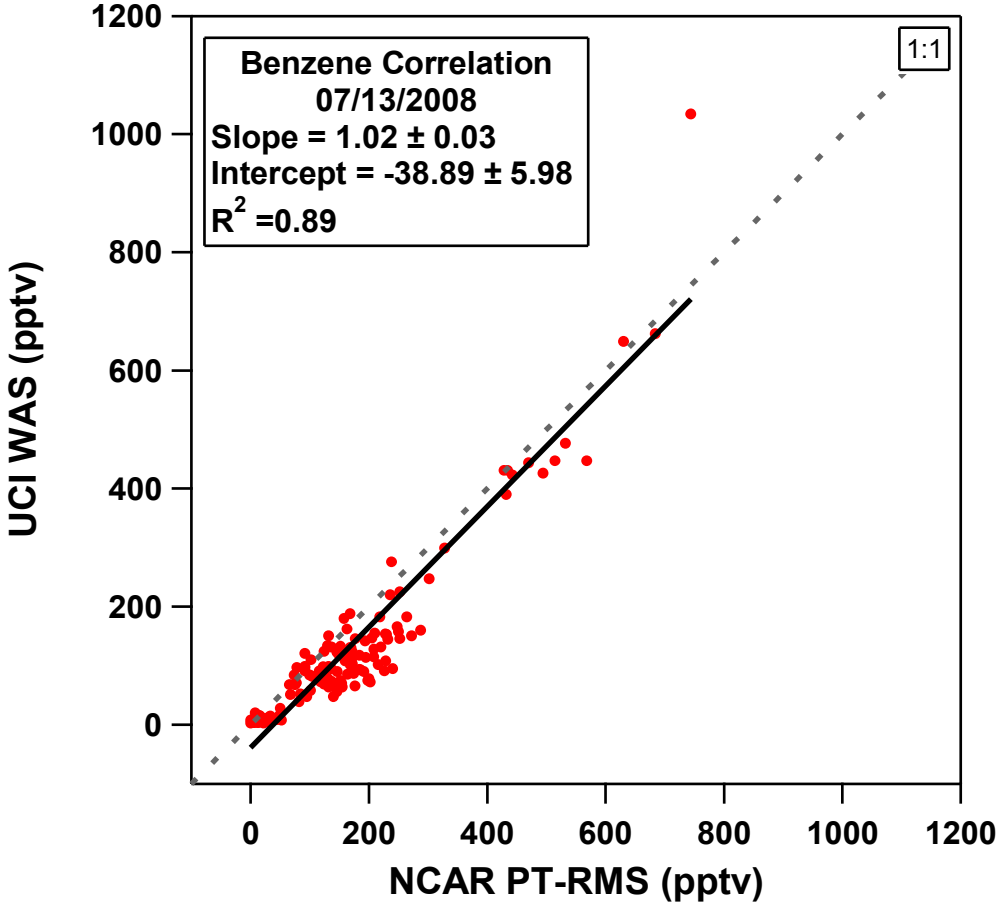

Acetone Correlation
07/13/2008
Slope = 1.08 ± 0.03
Intercept = 60.68 ± 80.58
R2 =0.96
1:1
NCAR PT-RMS (pptv)
NCAR TOGA (pptv)
0
2000
4000
6000
8000

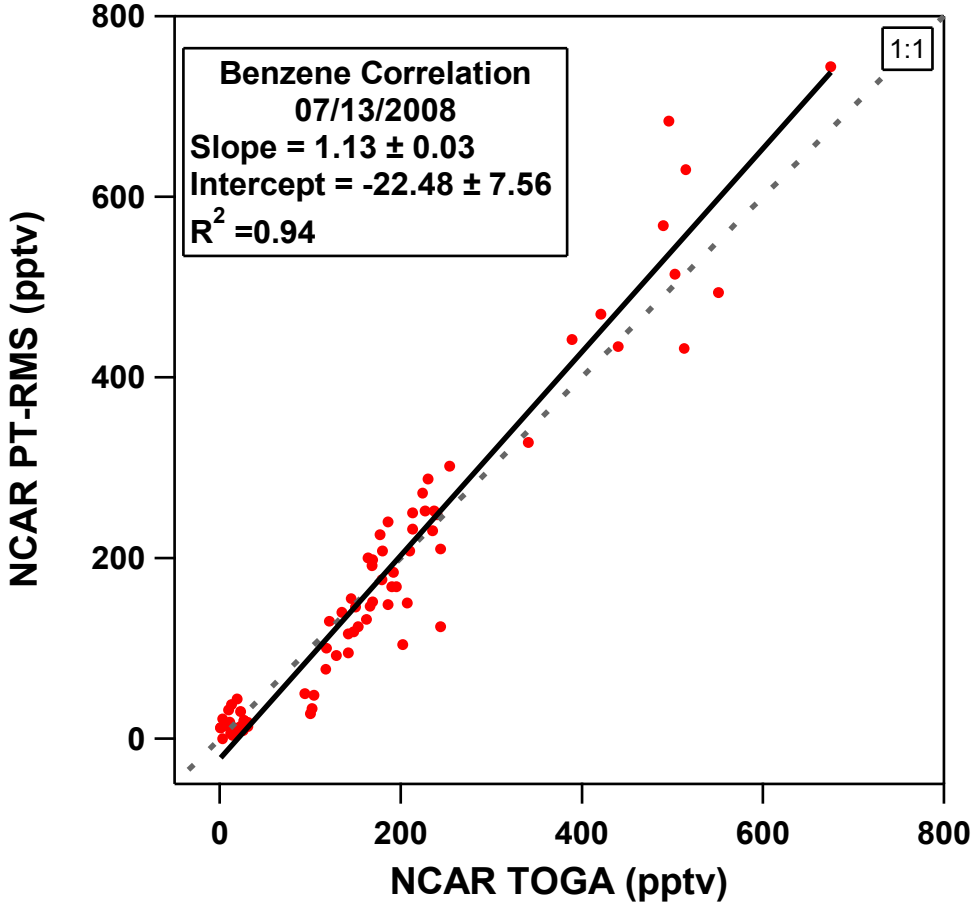

07/13/2008
NCAR TOGA R4 1/2LOD=5
NCAR PTRMS R1
Acetonitrile (pptv)
Altitude (km)
GMT
800
600
400
200
0
10
8
6
4
2
0
17:00
18:00
19:00
20:00
21:00
22:00
23:00

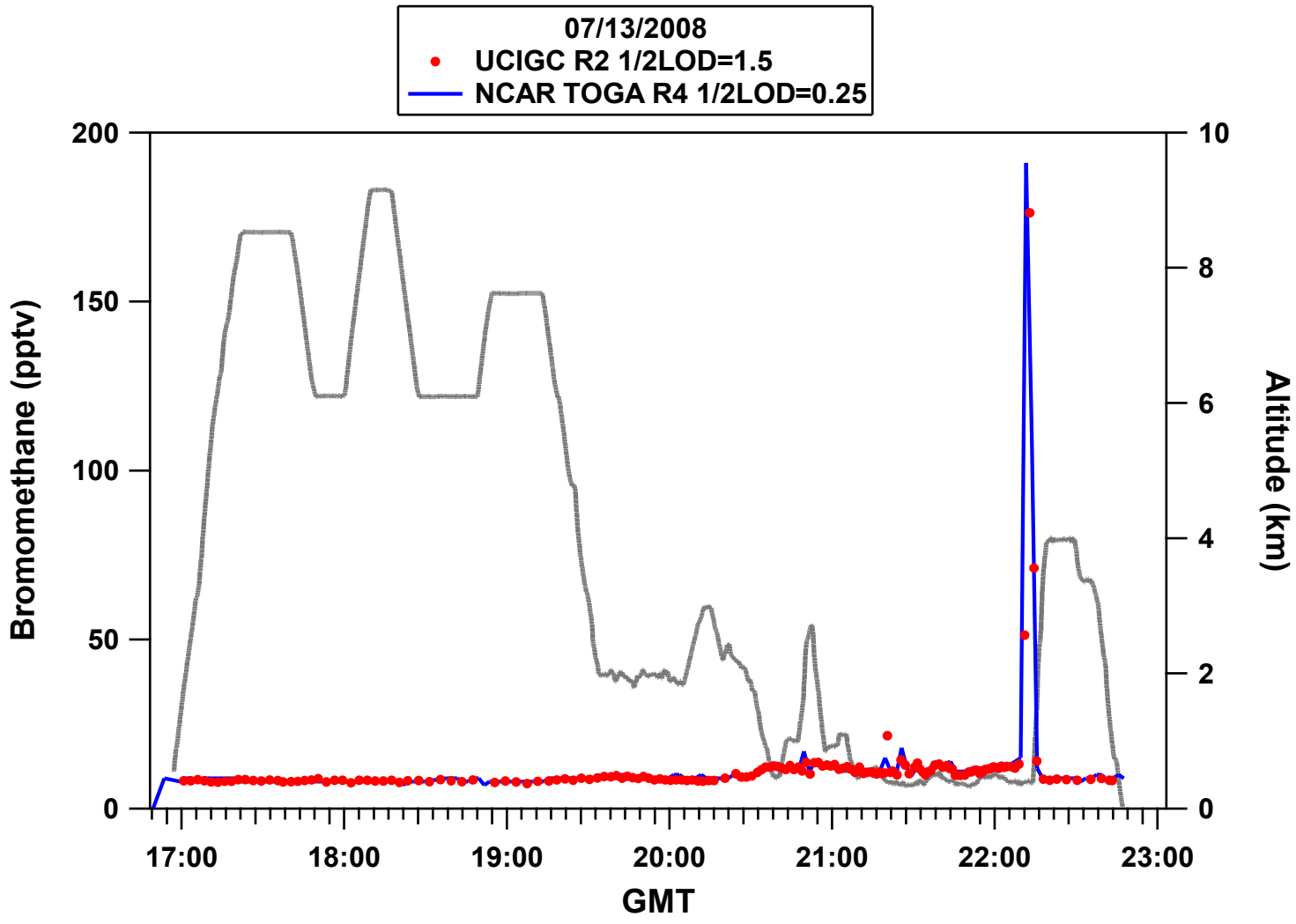

1:1
Aectonitrile Correlation
07/13/2008
Slope = 1.30 ± 0.06
Intercept = 3.65 ± 14.99
R2 =0.85
NCAR PT-RMS (pptv)
NCAR TOGA (pptv)
0
200
400
600
800

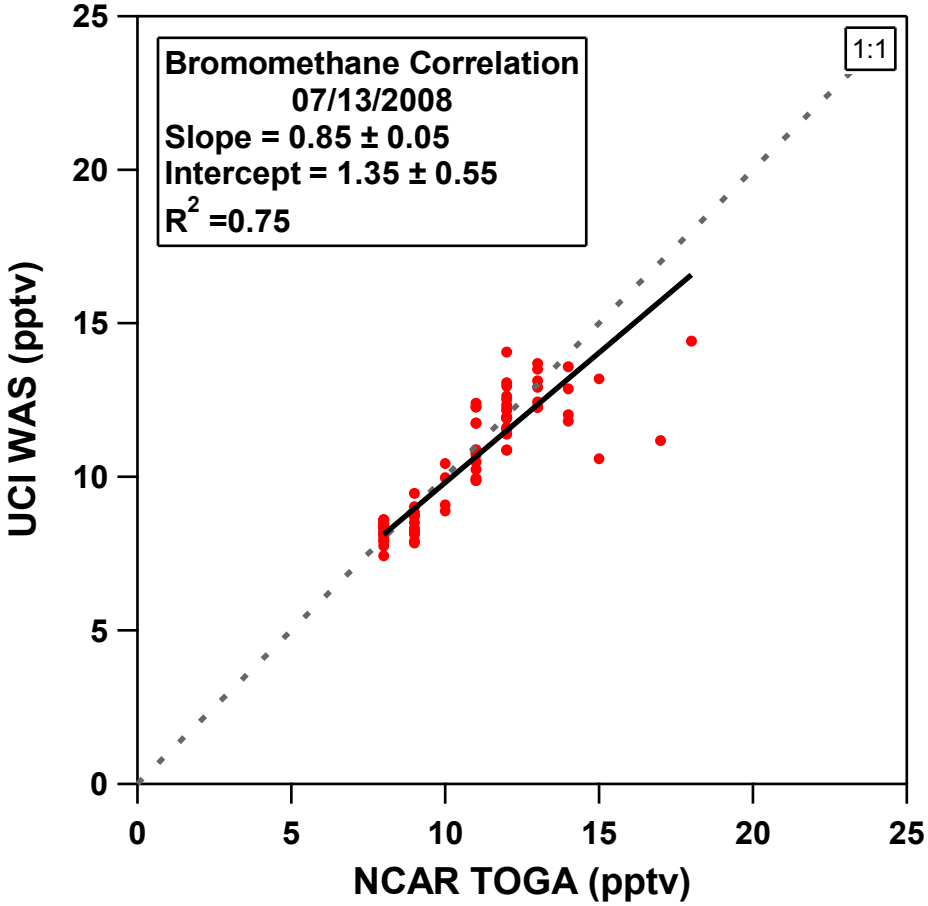

07/13/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
PTRMS R1
Benzene (pptv)
Altitude (km)
GMT
0
200
400
600
800
1000
1200
0
2
4
6
8
10
17:00
18:00
19:00
20:00
21:00
22:00
23:00

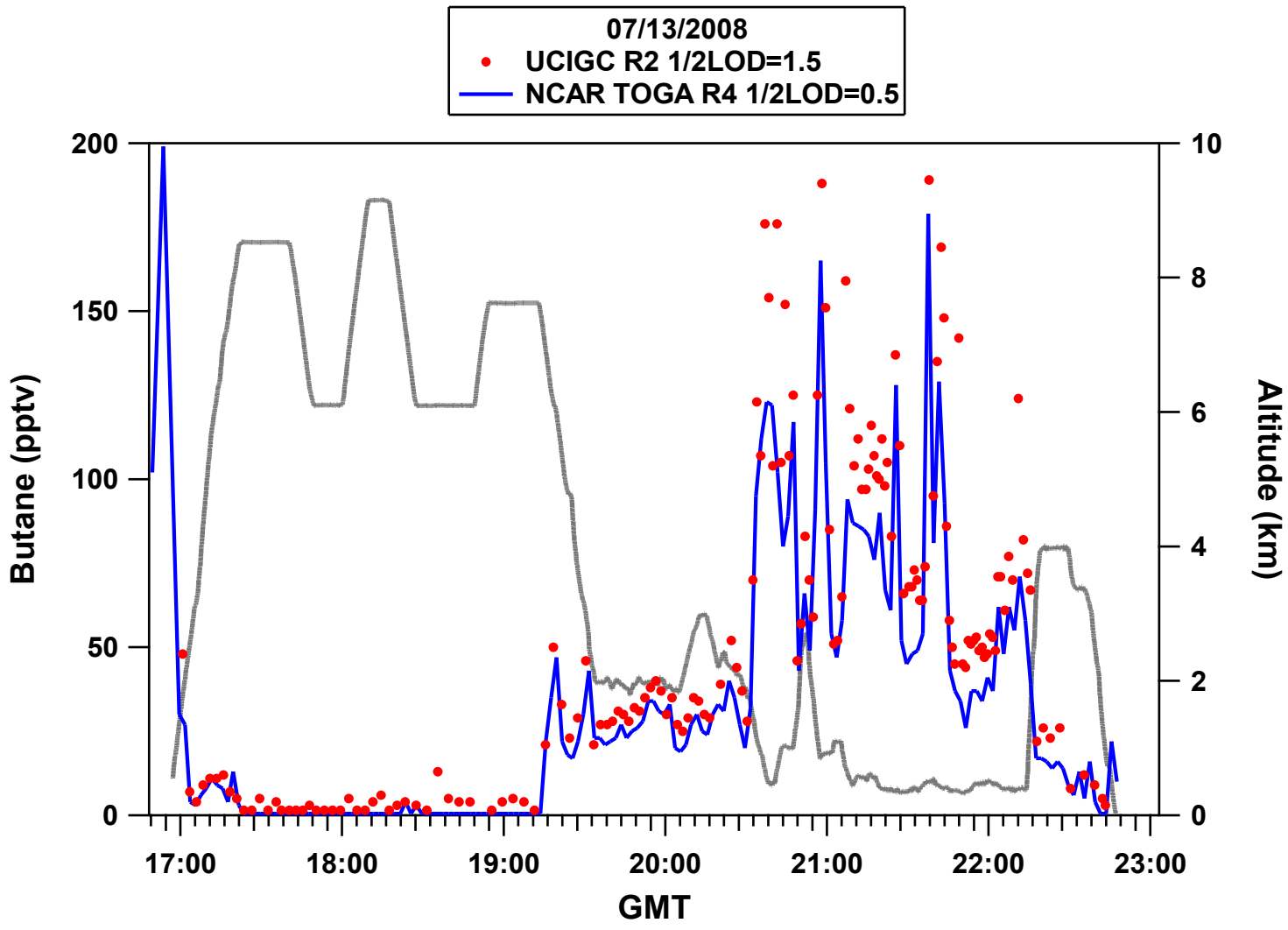

1:1
Benzene Correlation
07/13/2008
Slope = 1.20 ± 0.05
Intercept = -77.37 ± 11.35
R2 =0.86
UCI WAS (pptv)
NCAR TOGA (pptv)
1200
1000
800
600
400
200
0
0
200
400
600
800
1000
1200

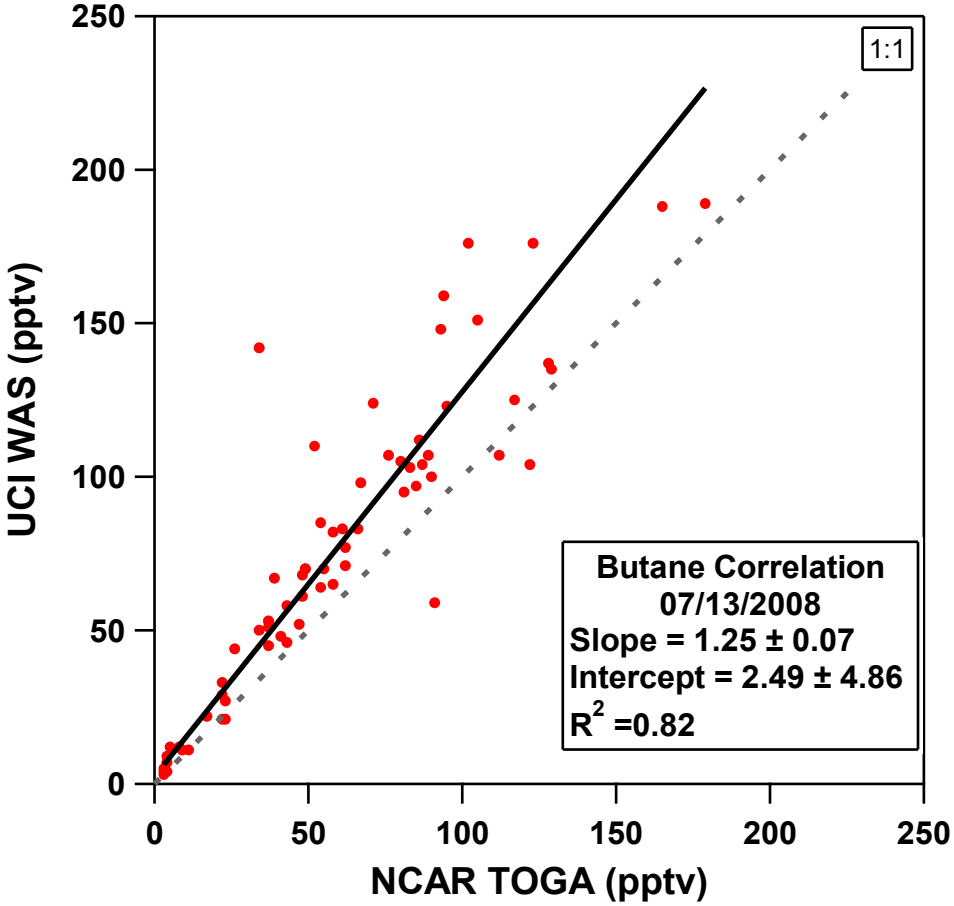

Benzene Correlation
07/13/2008
Slope = 1.02 ± 0.03
Intercept = -38.89 ± 5.98
R2 =0.89
1:1
UCI WAS (pptv)
NCAR PT-RMS (pptv)
1200
1000
800
600
400
200
0
0
200
400
600
800
1000
1200

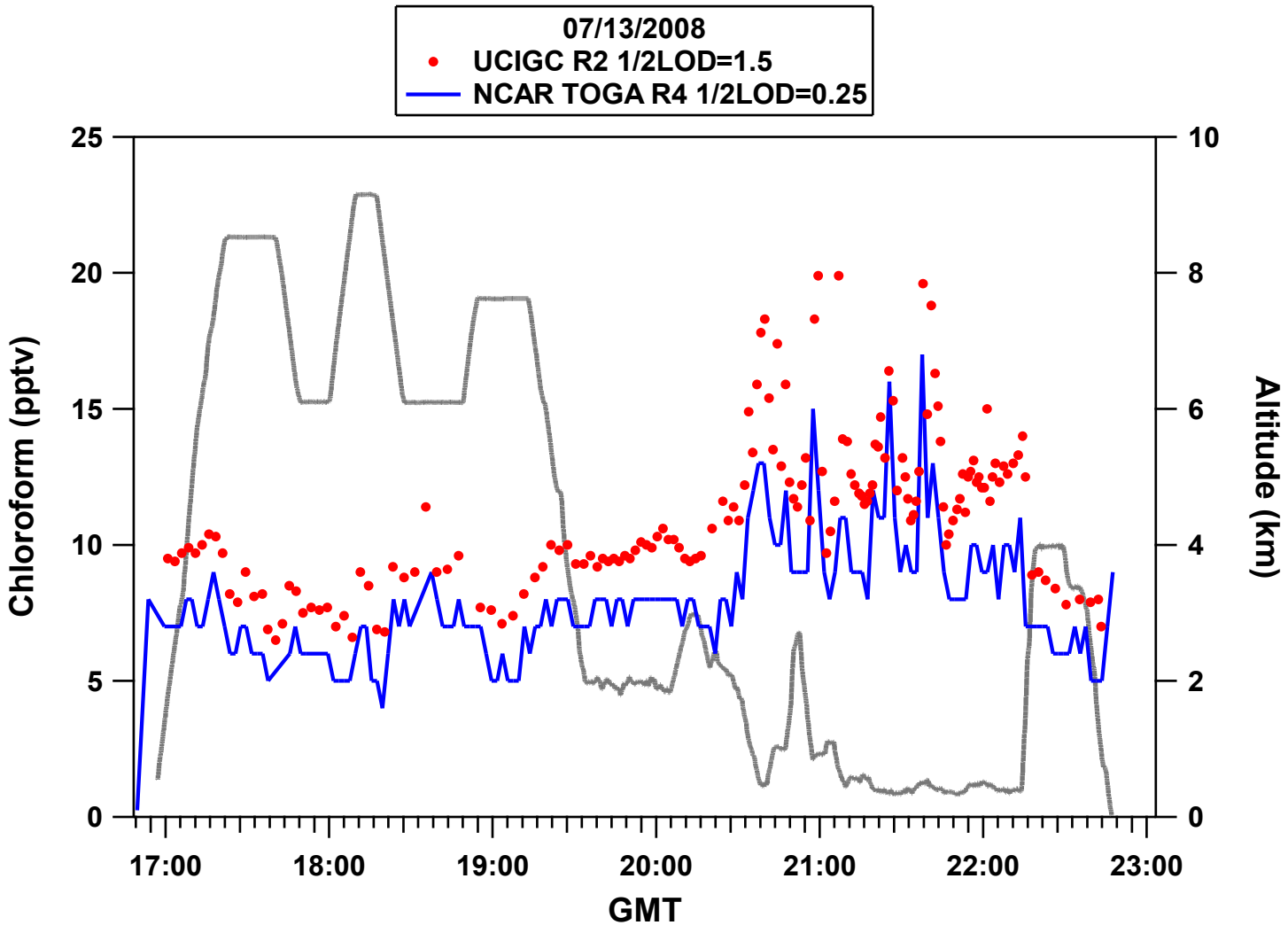

Benzene Correlation
07/13/2008
Slope = 1.13 ± 0.03
Intercept = -22.48 ± 7.56
R2 =0.94
1:1
NCAR PT-RMS (pptv)
NCAR TOGA (pptv)
0
200
400
600
800

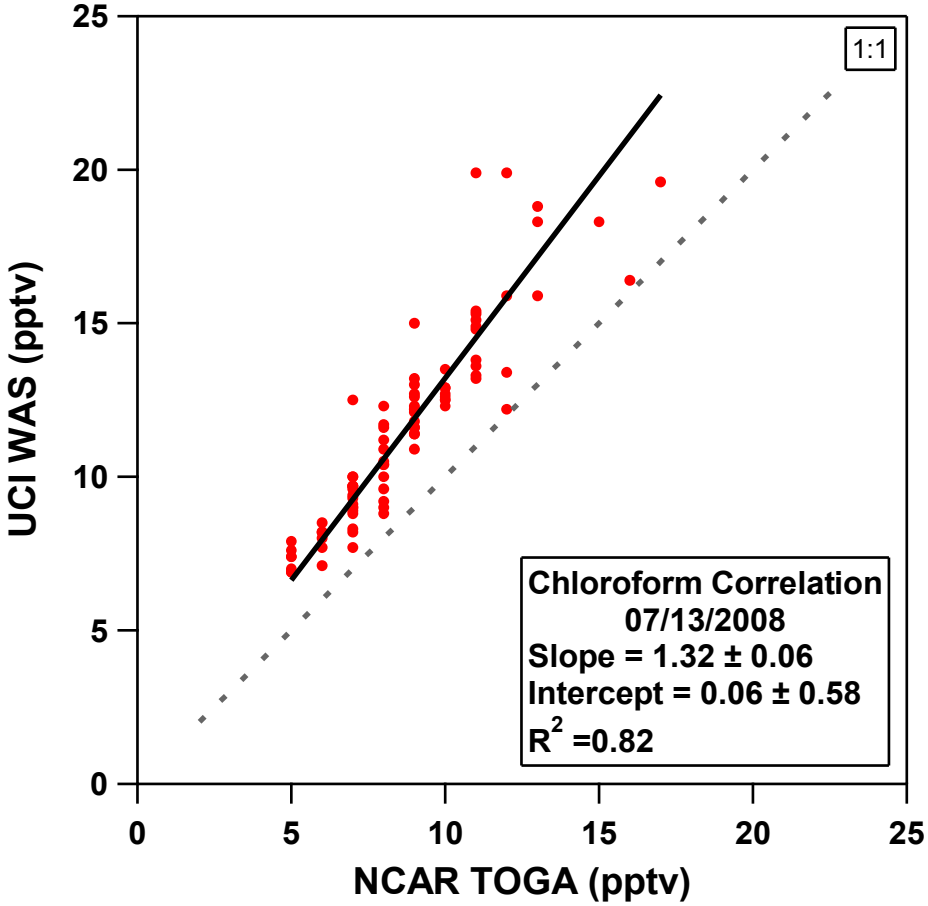

07/13/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.25
Bromomethane (pptv)
Altitude (km)
GMT
200
150
100
50
0
10
8
6
4
2
0
17:00
18:00
19:00
20:00
21:00
22:00
23:00

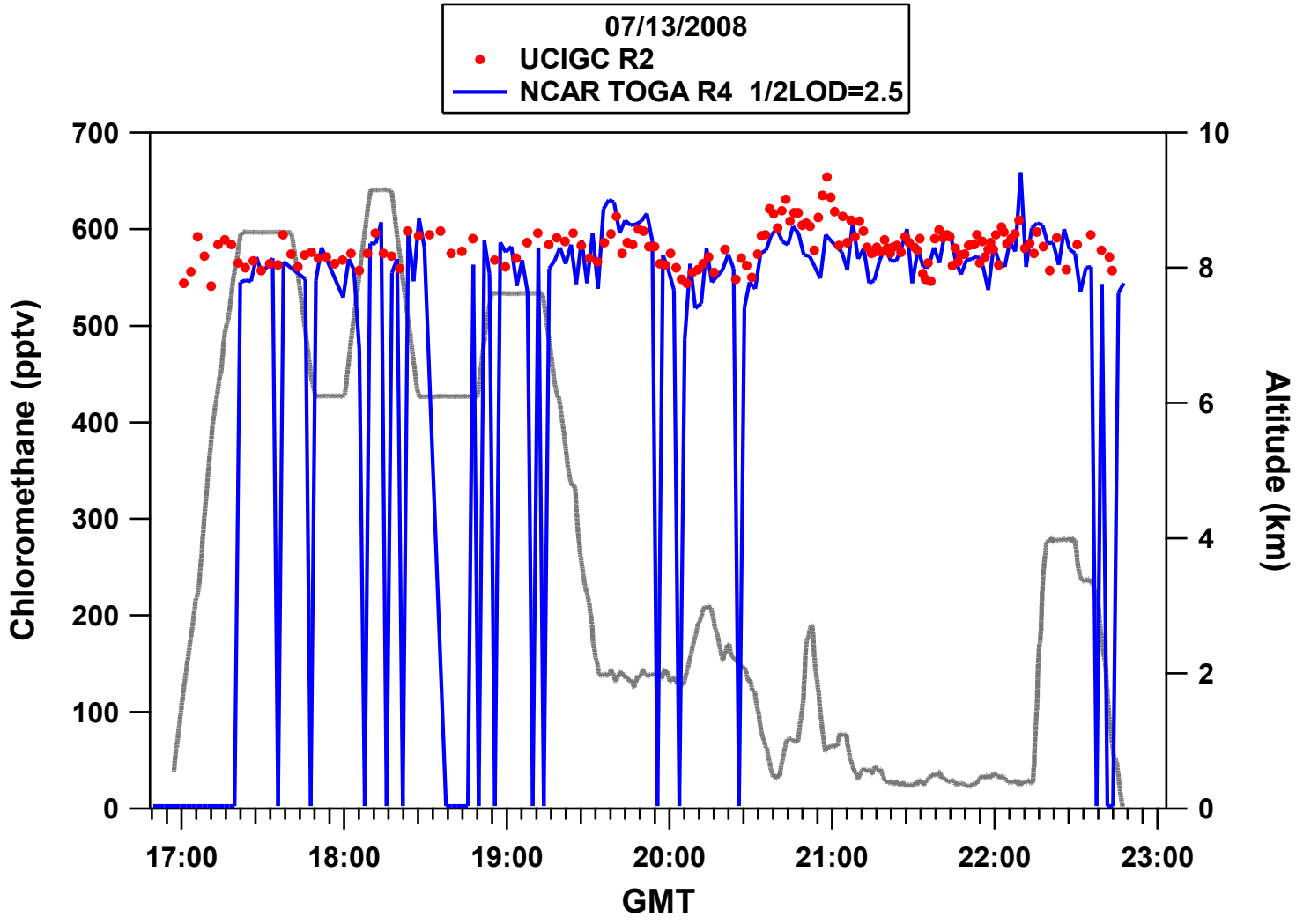

Bromomethane Correlation
07/13/2008
Slope = 0.85 ± 0.05
Intercept = 1.35 ± 0.55
R2 =0.75
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
0
5
10
15
20
25

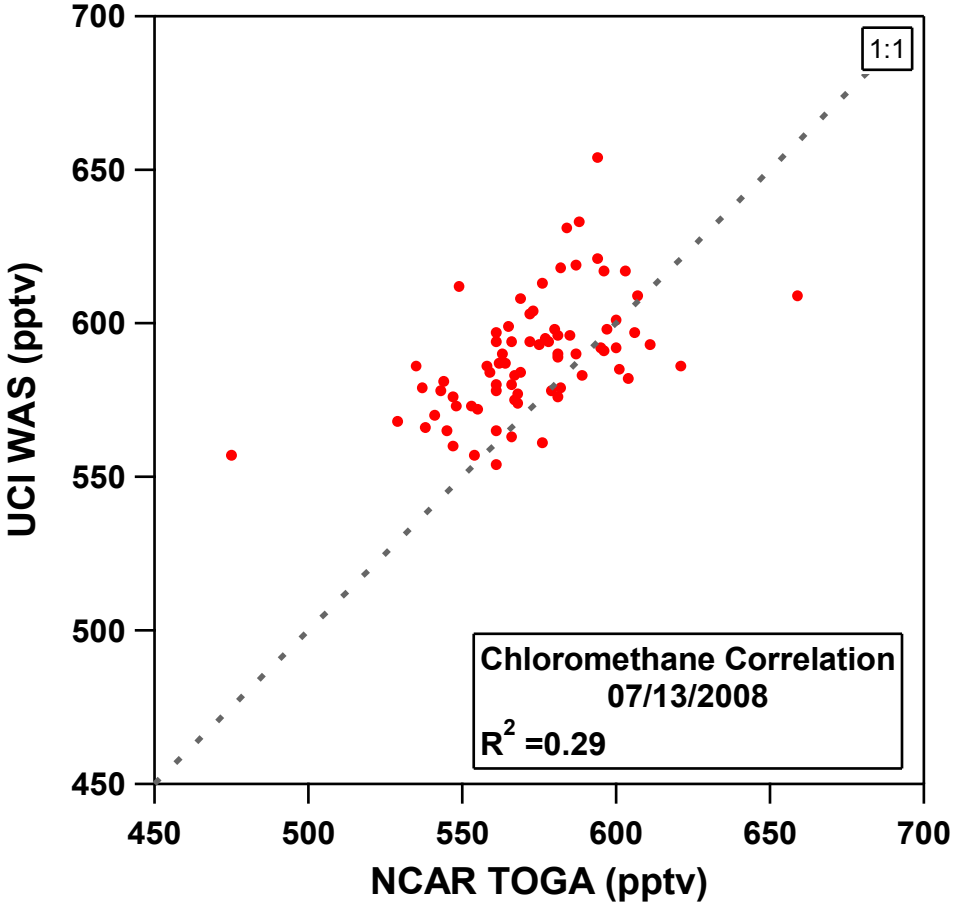

07/13/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
Butane (pptv)
Altitude (km)
GMT
200
150
100
50
0
10
8
6
4
2
0
17:00
18:00
19:00
20:00
21:00
22:00
23:00

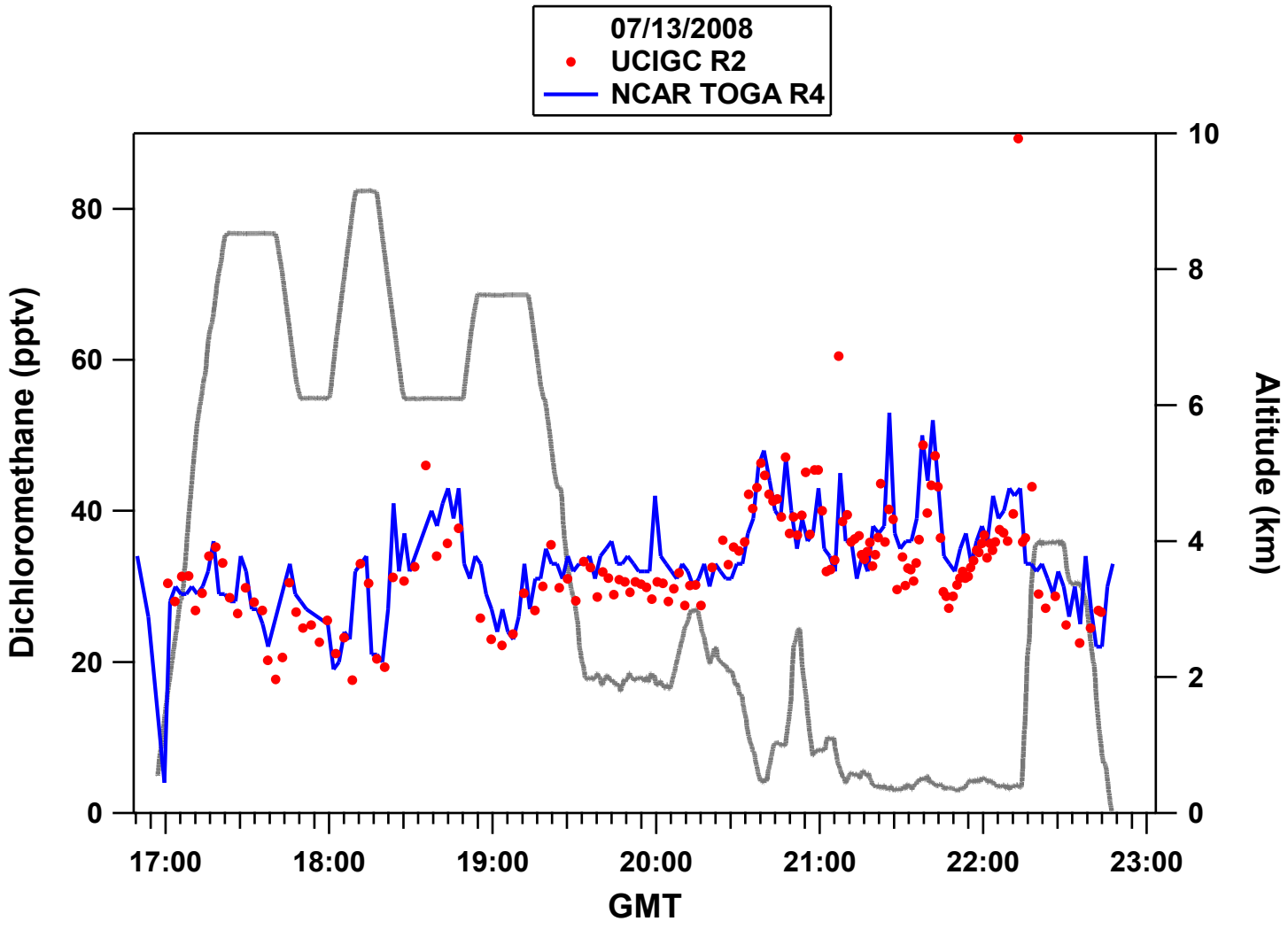

1:1
Butane Correlation
07/13/2008
Slope = 1.25 ± 0.07
Intercept = 2.49 ± 4.86
R2 =0.82
UCI WAS (pptv)
NCAR TOGA (pptv)
0
50
100
150
200
250

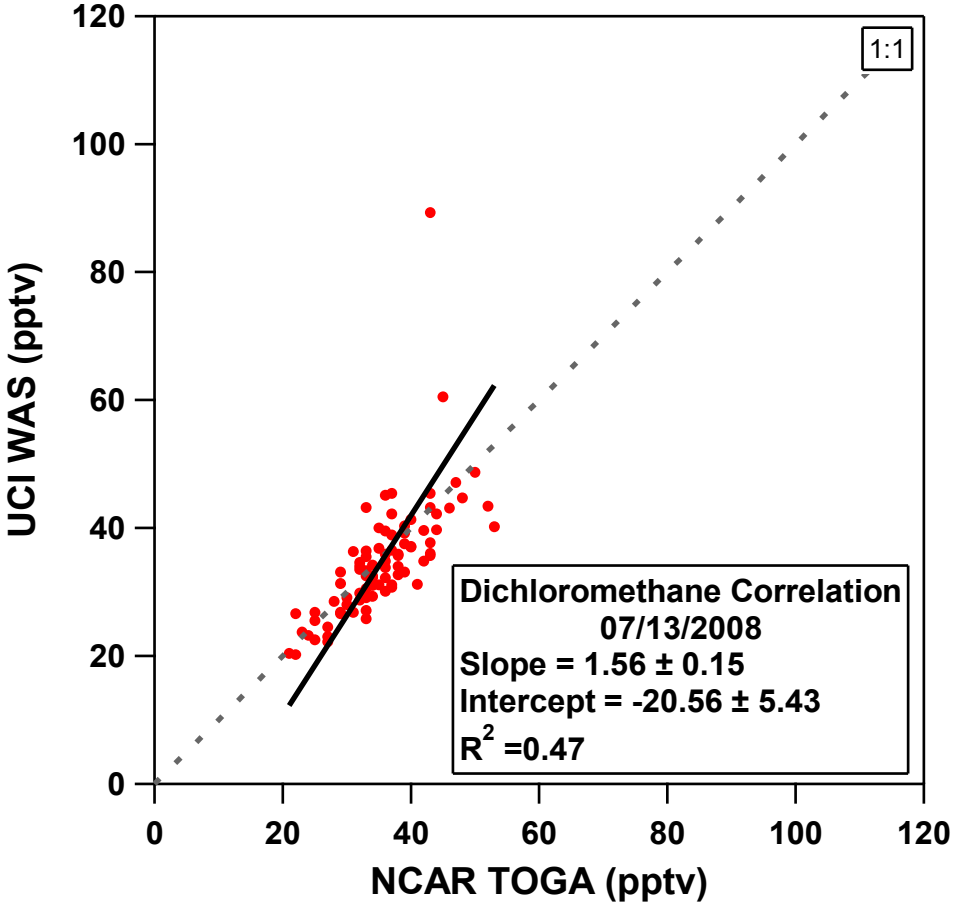

07/13/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.25
Chloroform (pptv)
Altitude (km)
GMT
25
20
15
10
5
0
10
8
6
4
2
0
17:00
18:00
19:00
20:00
21:00
22:00
23:00

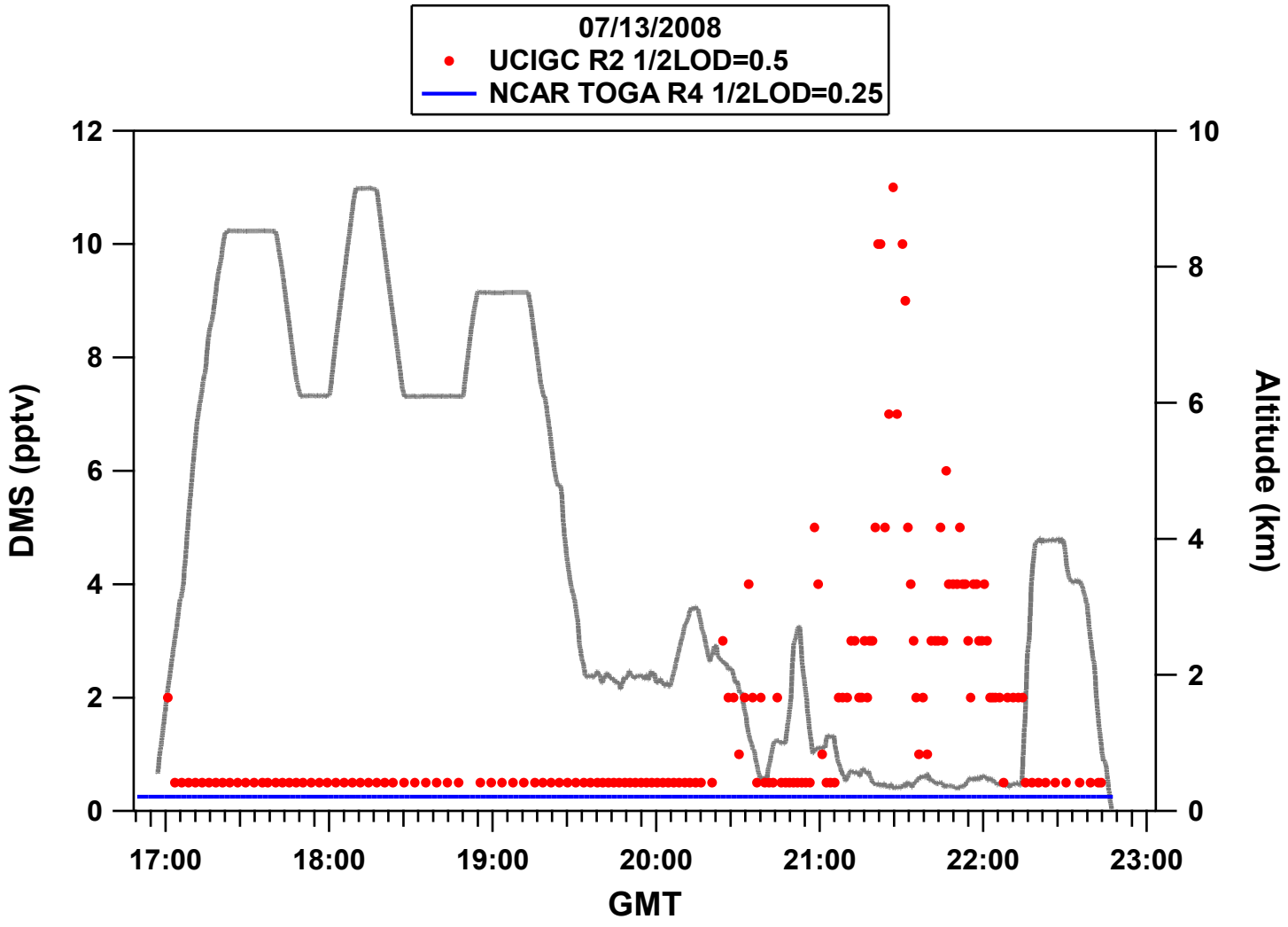

1:1
Chloroform Correlation
07/13/2008
Slope = 1.32 ± 0.06
Intercept = 0.06 ± 0.58
R2 =0.82
UCI WAS (pptv)
NCAR TOGA (pptv)
0
5
10
15
20
25

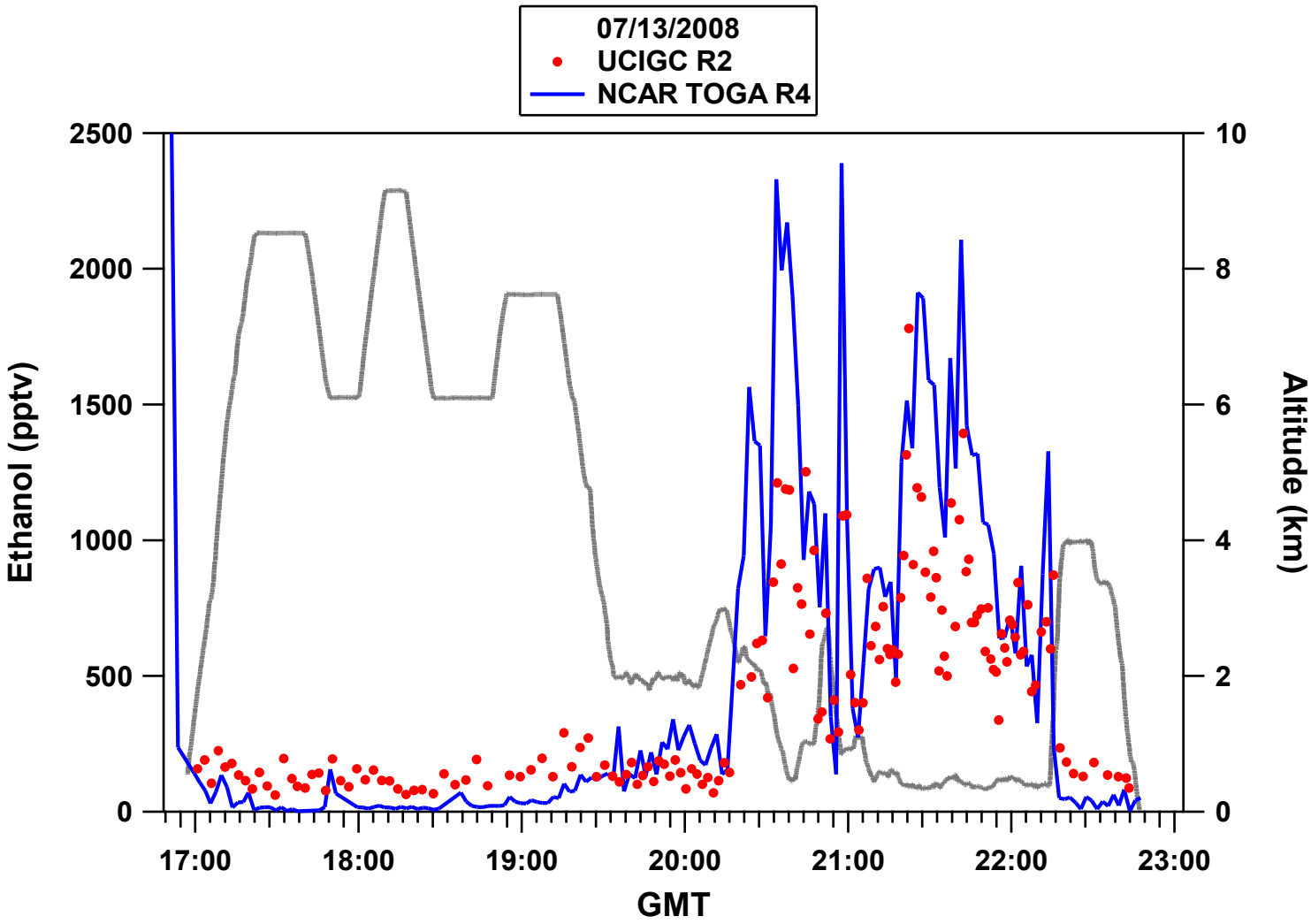

07/13/2008
UCIGC R2
NCAR TOGA R4 1/2LOD=2.5
Chloromethane (pptv)
Altitude (km)
GMT
700
600
500
400
300
200
100
0
10
8
6
4
2
0
17:00
18:00
19:00
20:00
21:00
22:00
23:00

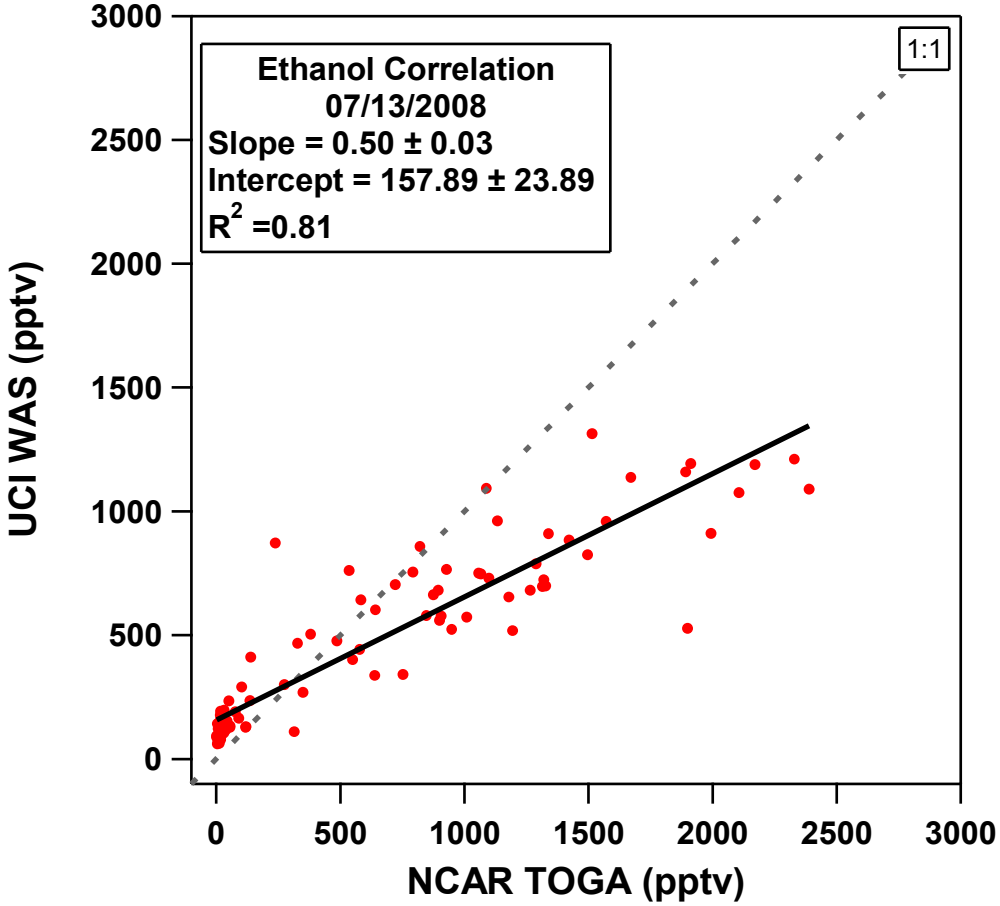

1:1
Chloromethane Correlation
07/13/2008
R2 =0.29
UCI WAS (pptv)
NCAR TOGA (pptv)
450
500
550
600
650
700

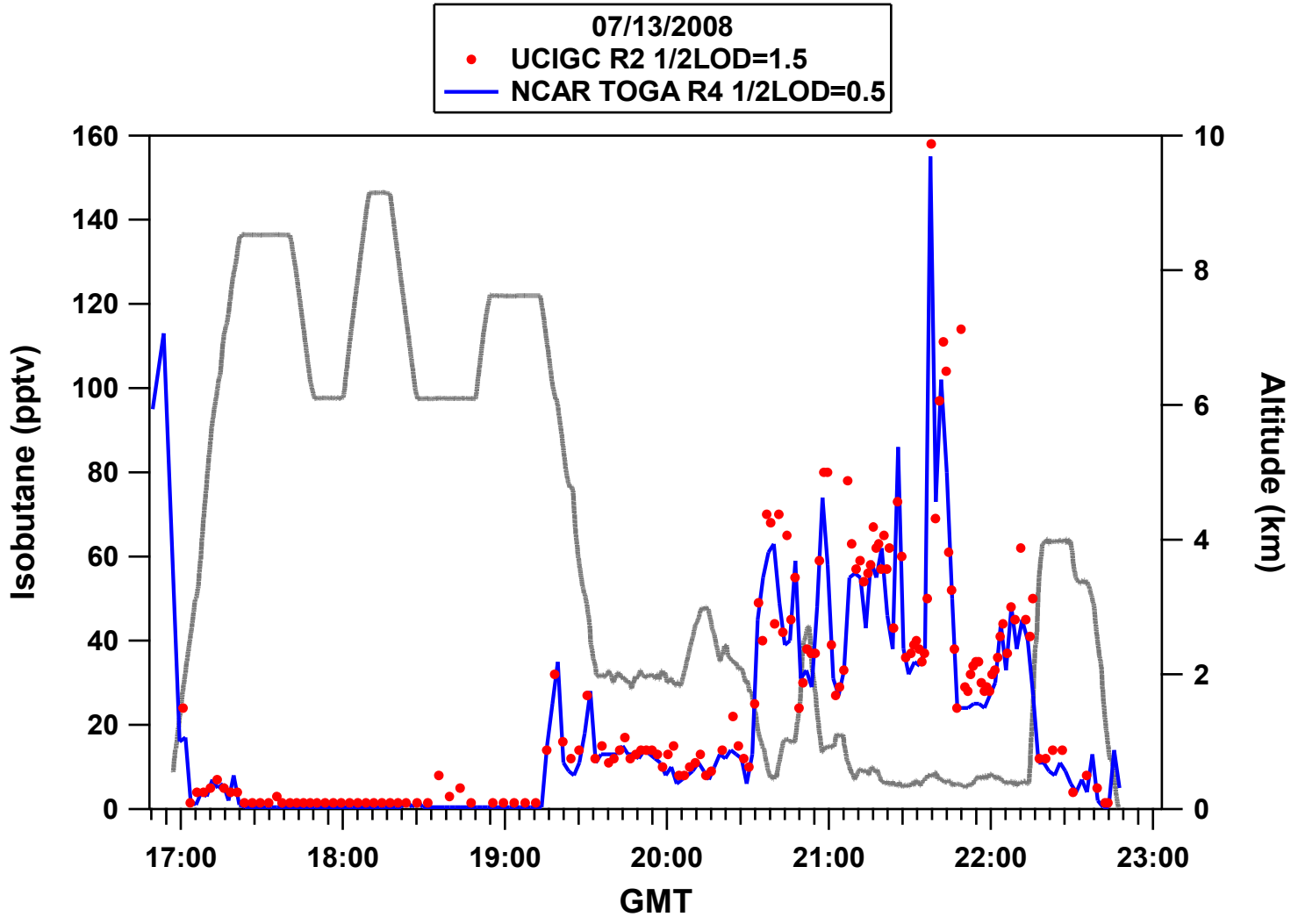

07/13/2008
UCIGC R2
NCAR TOGA R4
Dichloromethane (pptv)
Altitude (km)
GMT
0
20
40
60
80
0
2
4
6
8
10
17:00
18:00
19:00
20:00
21:00
22:00
23:00

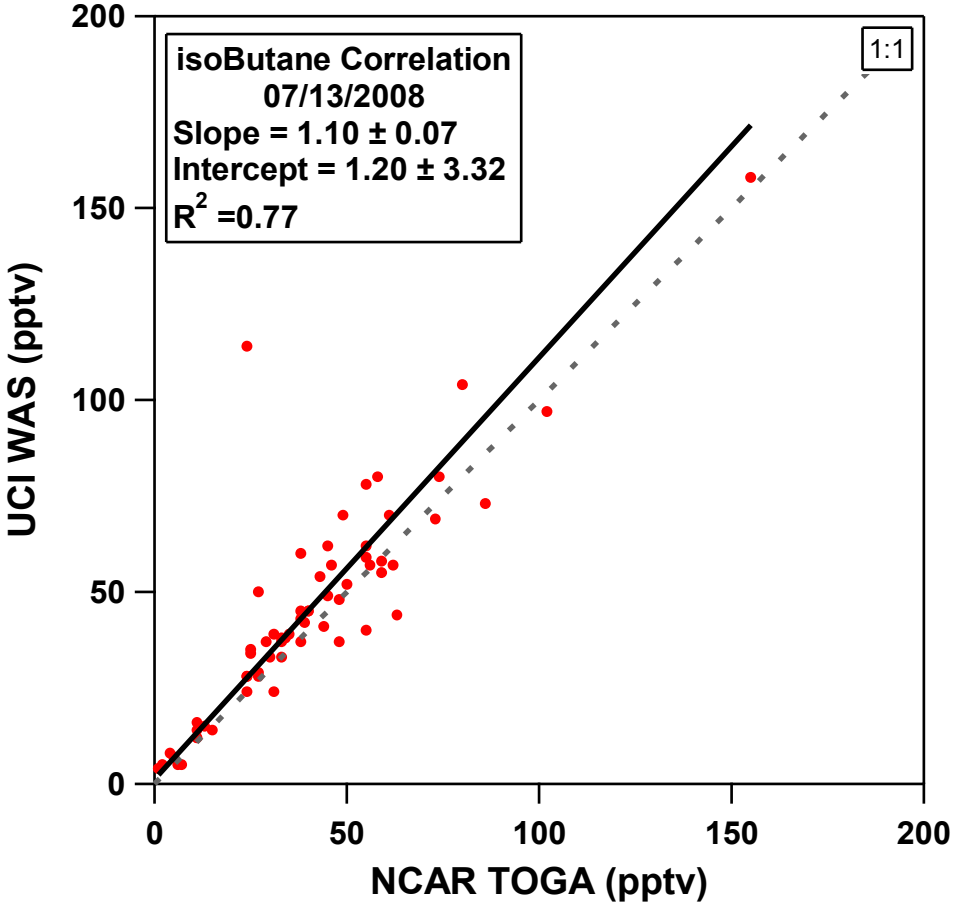

1:1
Dichloromethane Correlation
07/13/2008
Slope = 1.56 ± 0.15
Intercept = -20.56 ± 5.43
R2 =0.47
UCI WAS (pptv)
NCAR TOGA (pptv)
0
20
40
60
80
100
120

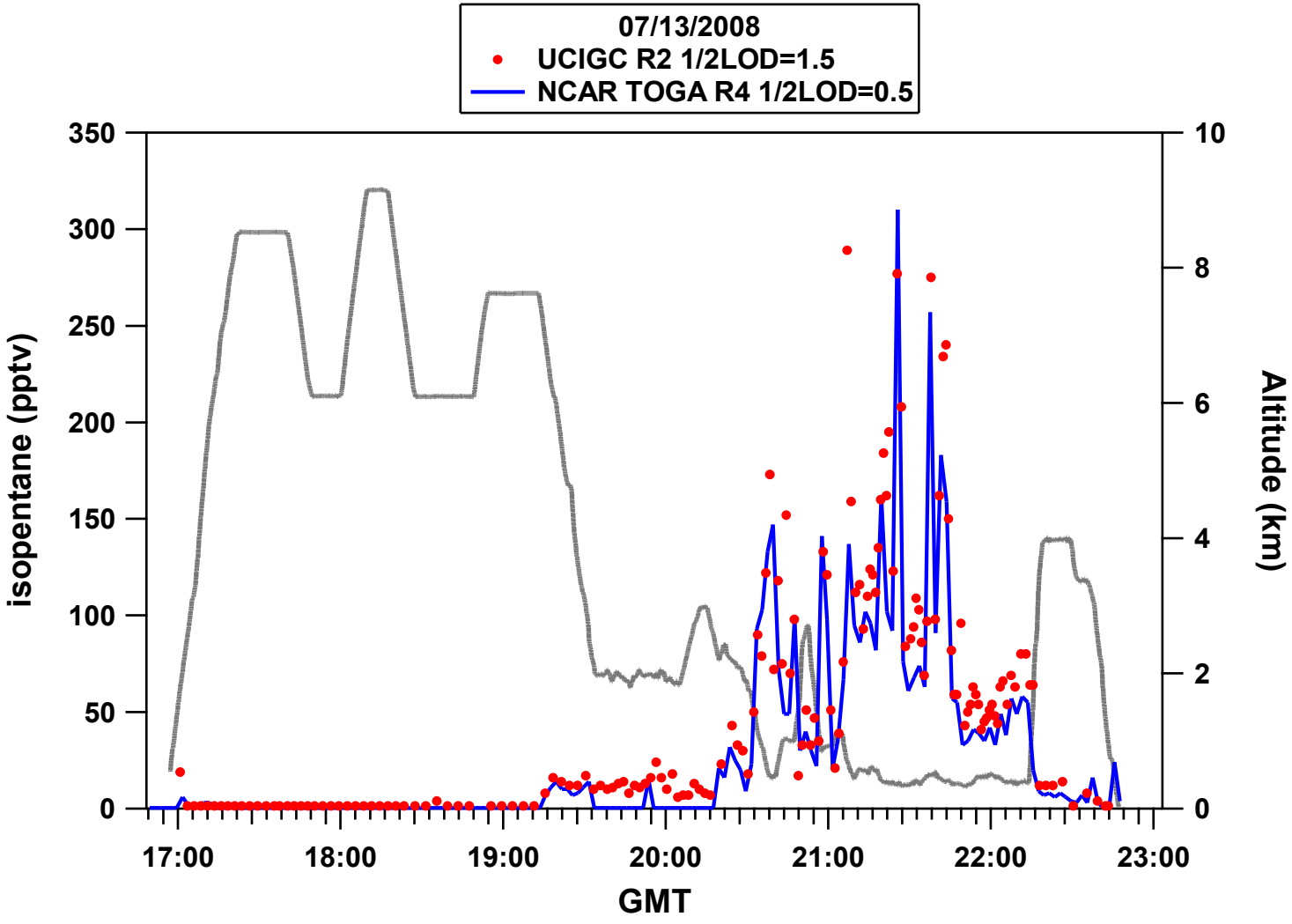

07/13/2008
UCIGC R2 1/2LOD=0.5
NCAR TOGA R4 1/2LOD=0.25
DMS (pptv)
Altitude (km)
GMT
0
2
4
6
8
10
12
17:00
18:00
19:00
20:00
21:00
22:00
23:00

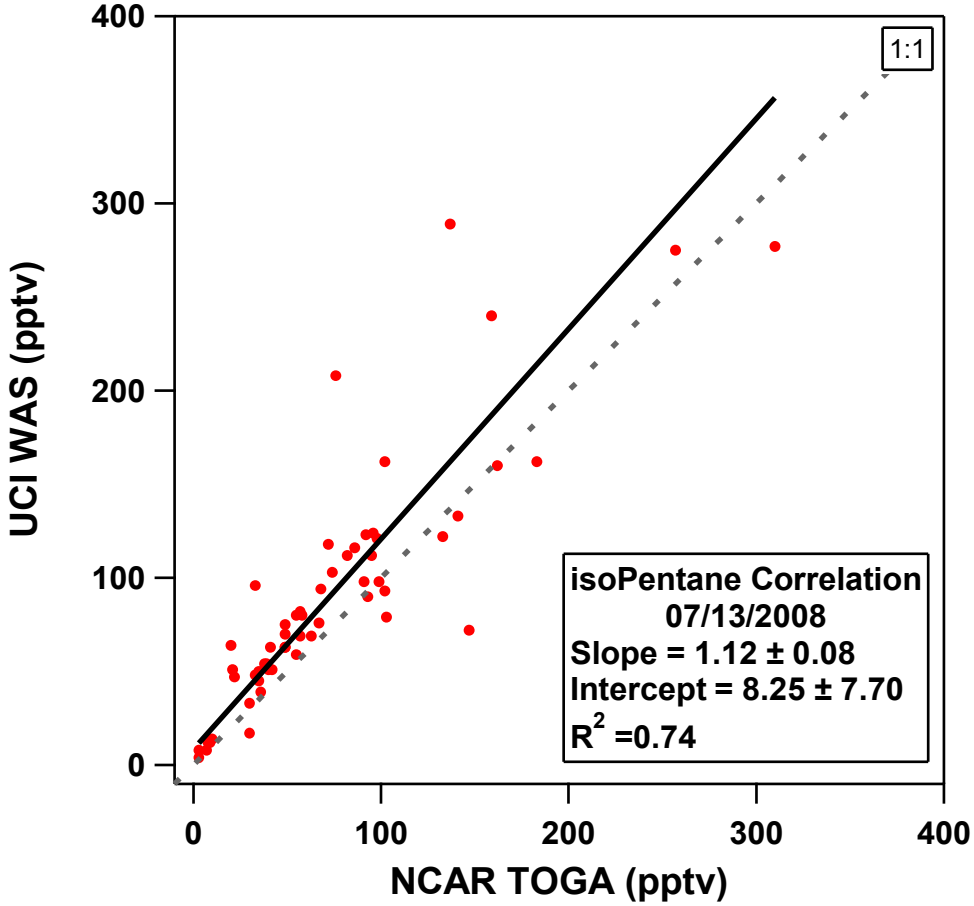

07/13/2008
UCIGC R2
NCAR TOGA R4
Ethanol (pptv)
Altitude (km)
GMT
2500
2000
1500
1000
500
0
10
8
6
4
2
0
17:00
18:00
19:00
20:00
21:00
22:00
23:00

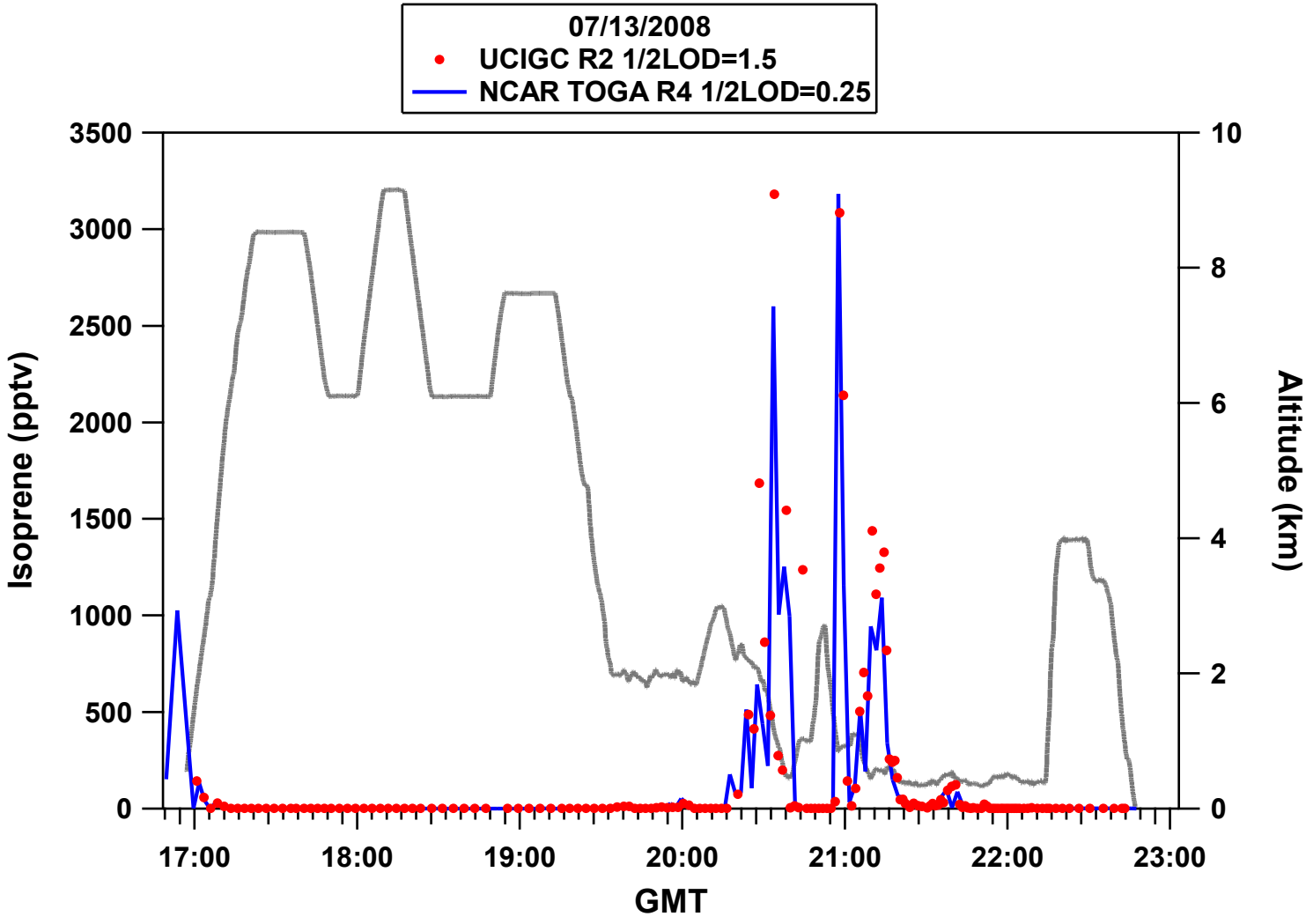

Ethanol Correlation
07/13/2008
Slope = 0.50 ± 0.03
Intercept = 157.89 ± 23.89
R2 =0.81
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
0
500
1000
1500
2000
2500
3000

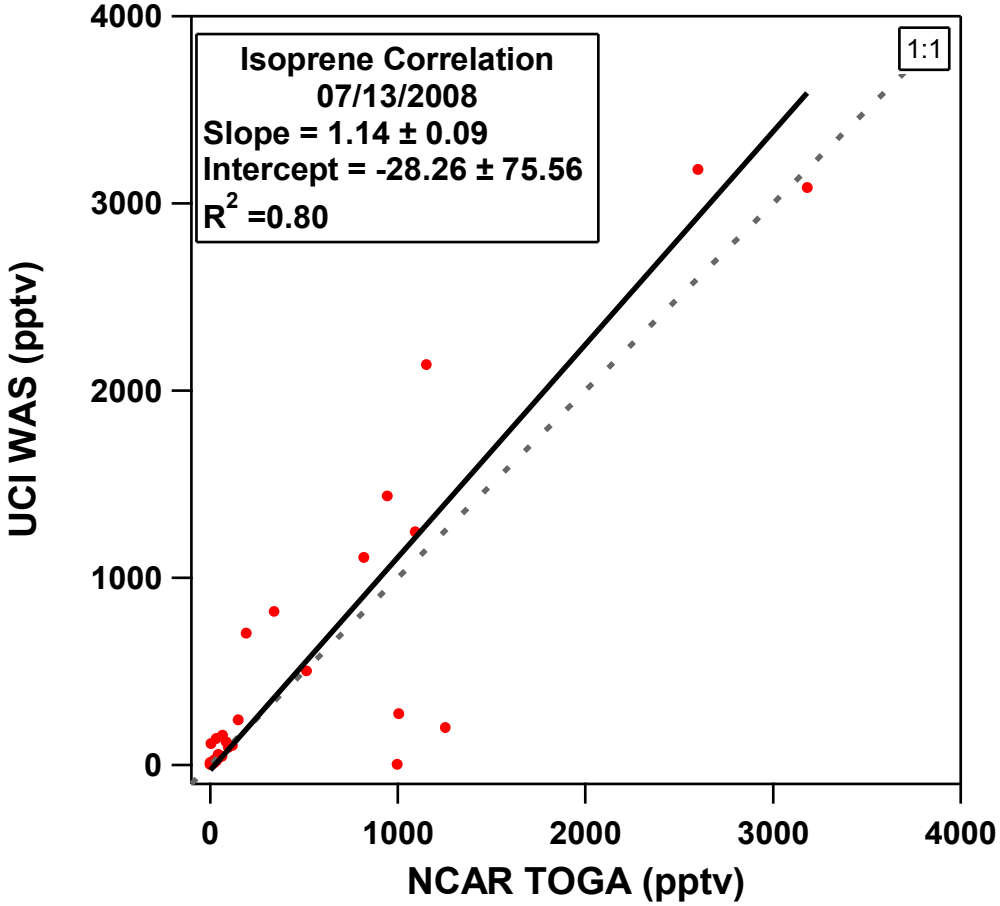

07/13/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
Isobutane (pptv)
Altitude (km)
GMT
160
140
120
100
80
60
40
20
0
10
8
6
4
2
0
17:00
18:00
19:00
20:00
21:00
22:00
23:00

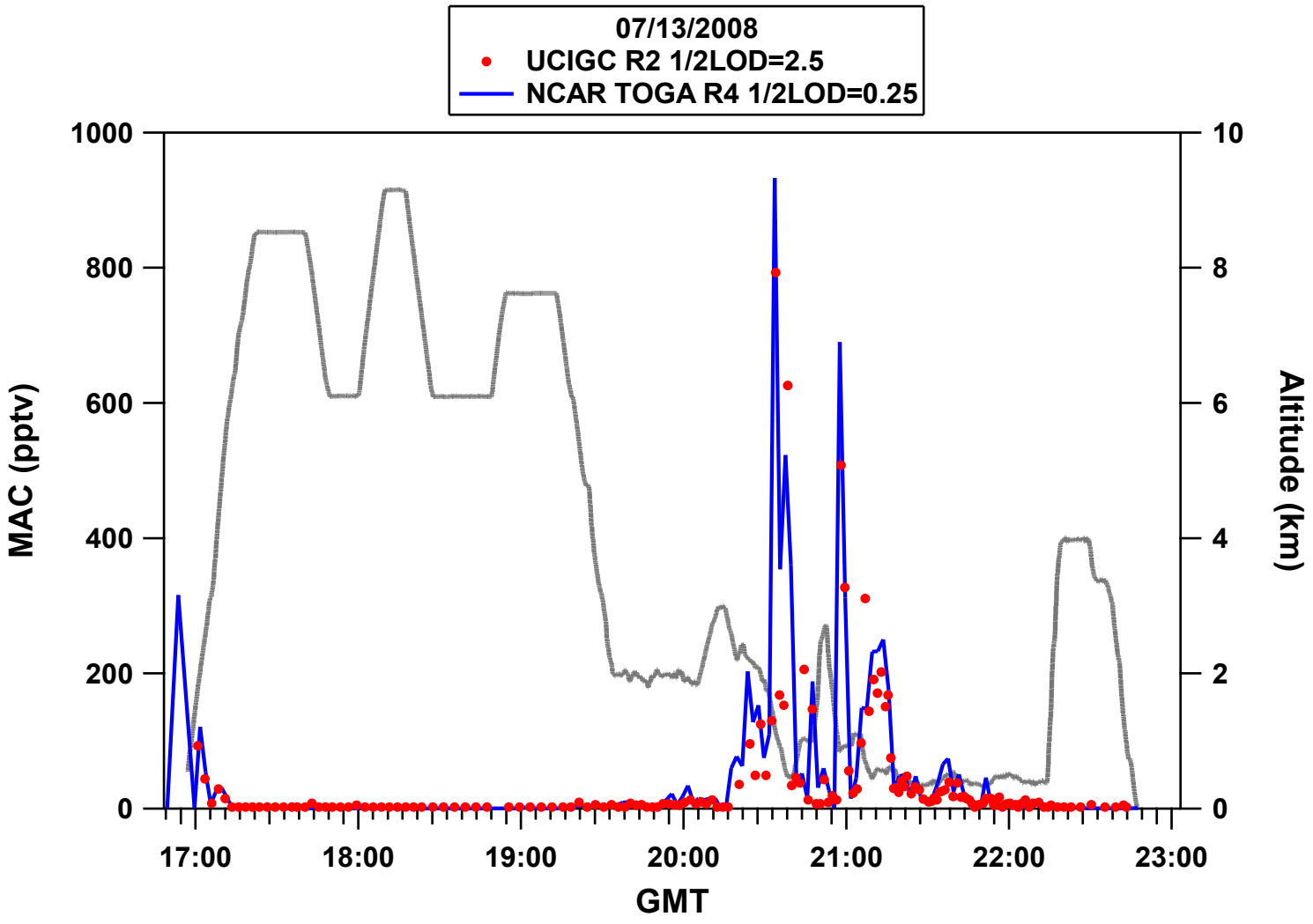

isoButane Correlation
07/13/2008
Slope = 1.10 ± 0.07
Intercept = 1.20 ± 3.32
R2 =0.77
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
0
50
100
150
200

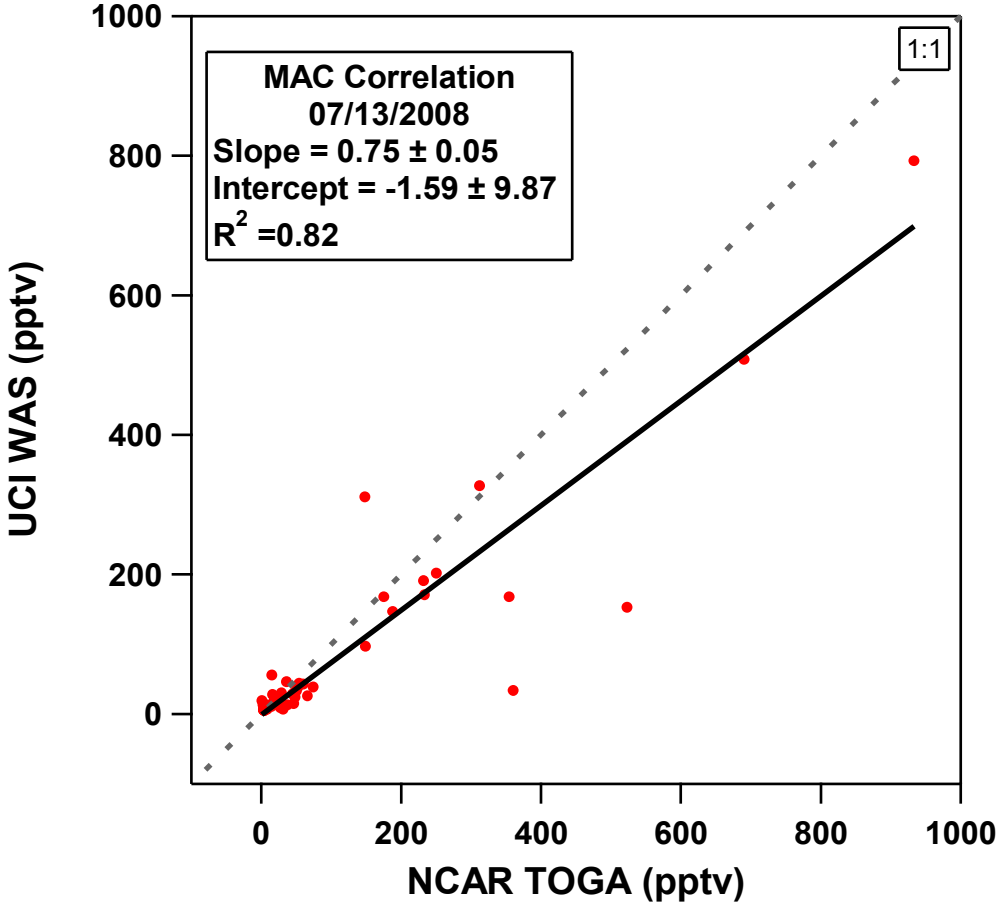

07/13/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
isopentane (pptv)
Altitude (km)
GMT
350
300
250
200
150
100
50
0
10
8
6
4
2
0
17:00
18:00
19:00
20:00
21:00
22:00
23:00

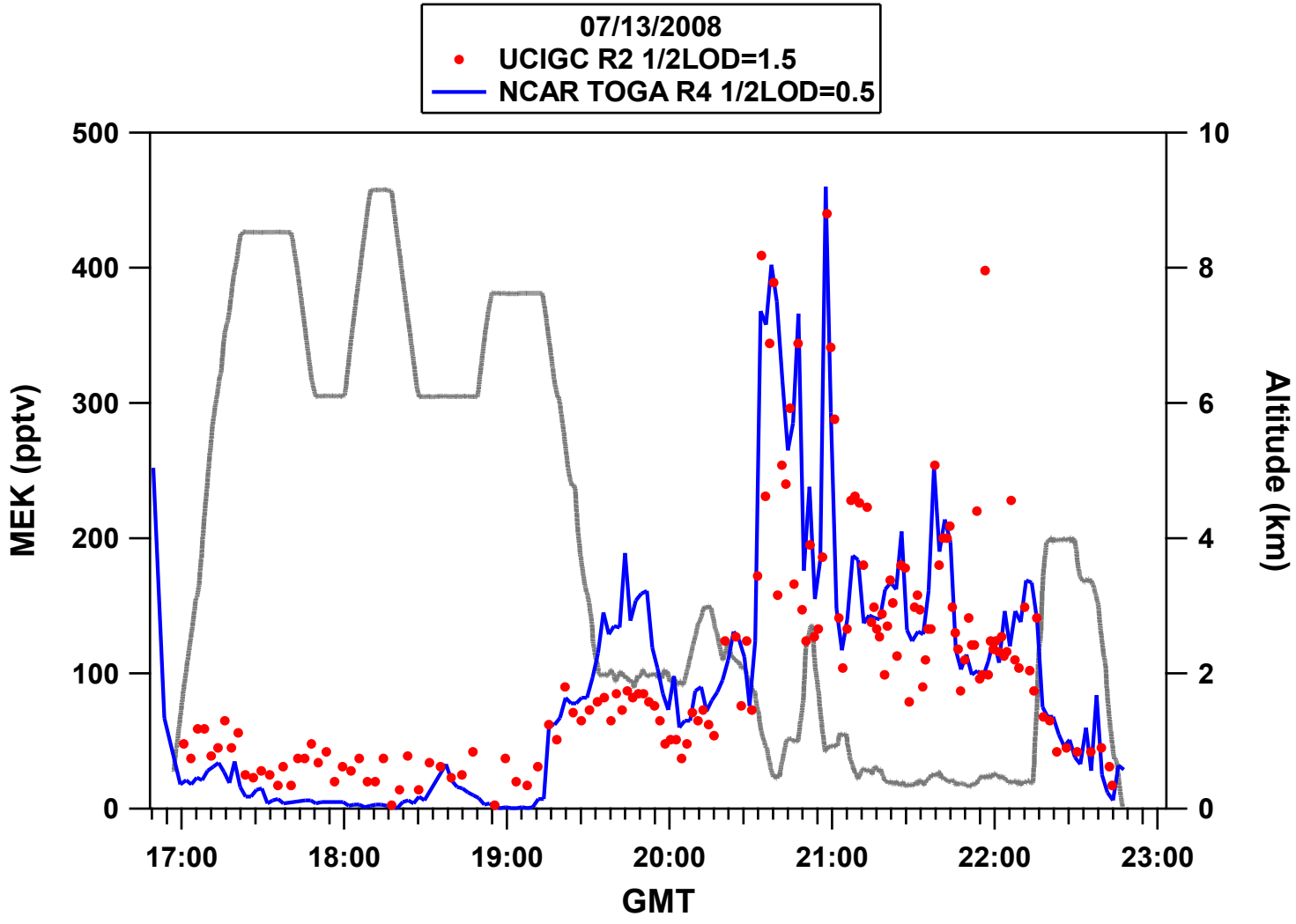

400
300
200
100
0
UCI WAS (pptv)
0
100
200
300
400
NCAR TOGA (pptv)
1:1
isoPentane Correlation
07/13/2008
Slope = 1.12 ± 0.08
Intercept = 8.25 ± 7.70
R2 =0.74

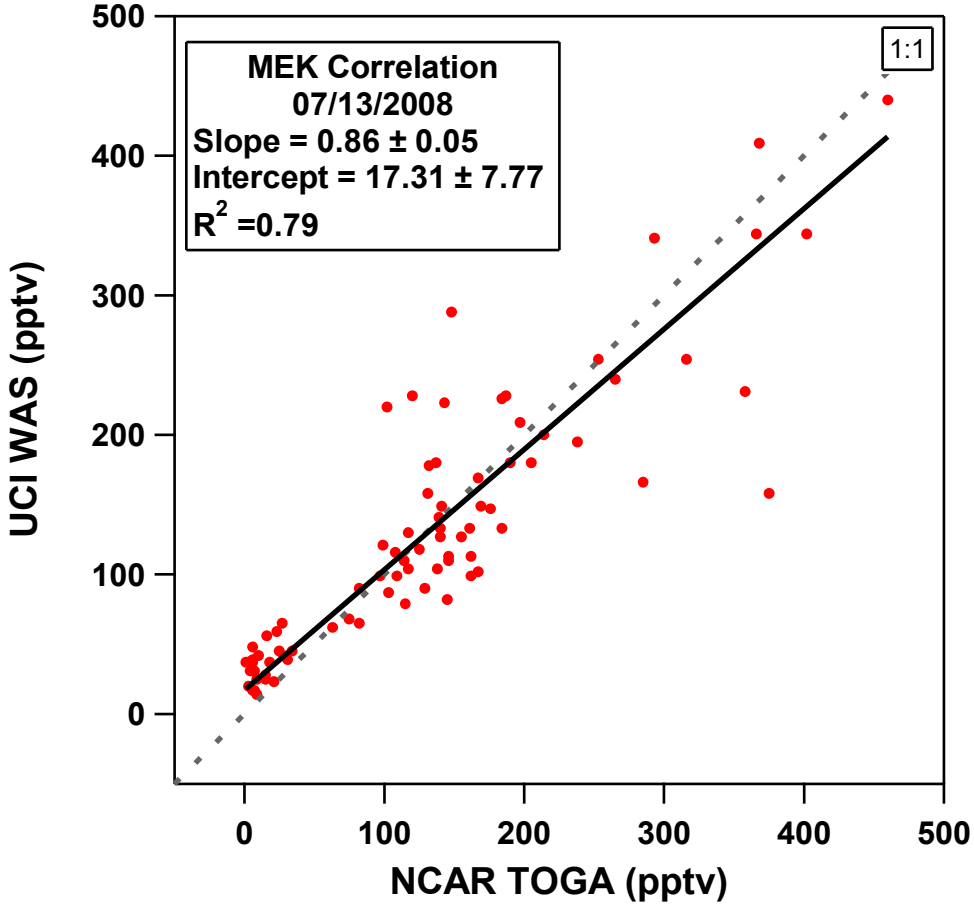

07/13/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.25
Isoprene (pptv)
Altitude (km)
GMT
3500
3000
2500
2000
1500
1000
500
0
10
8
6
4
2
0
17:00
18:00
19:00
20:00
21:00
22:00
23:00

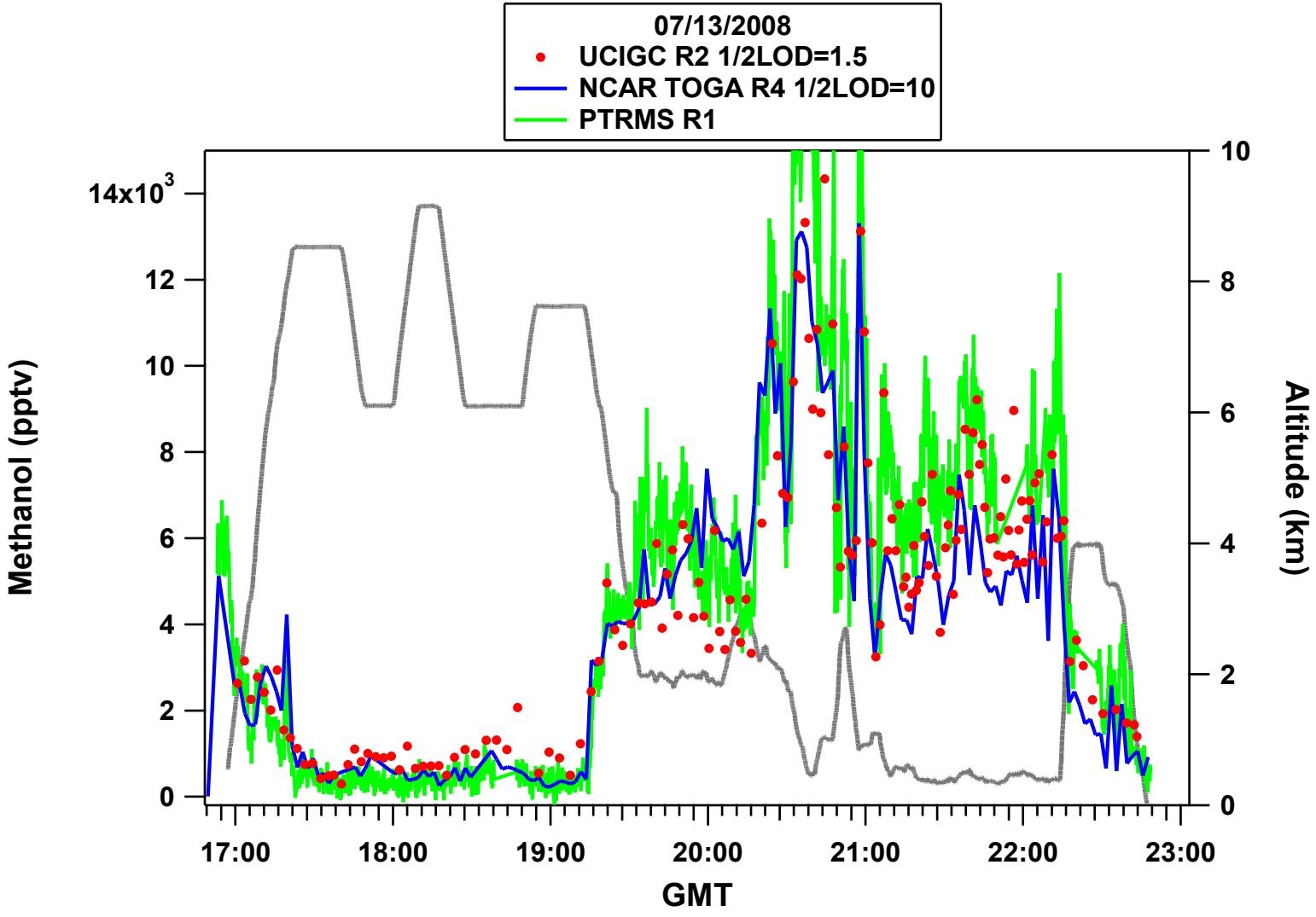

Isoprene Correlation
07/13/2008
Slope = 1.14 ± 0.09
Intercept = -28.26 ± 75.56
R2 =0.80
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
0
1000
2000
3000
4000

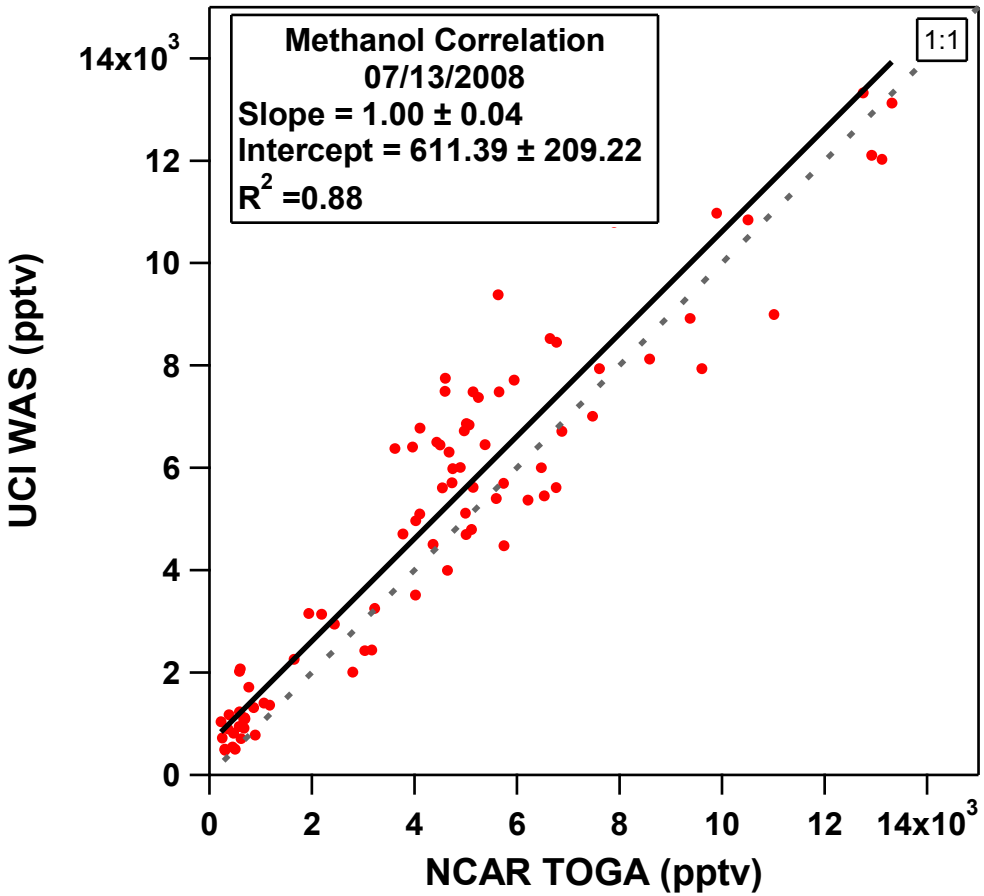

07/13/2008
UCIGC R2 1/2LOD=2.5
NCAR TOGA R4 1/2LOD=0.25
MAC (pptv)
Altitude (km)
GMT
1000
800
600
400
200
0
10
8
6
4
2
0
17:00
18:00
19:00
20:00
21:00
22:00
23:00

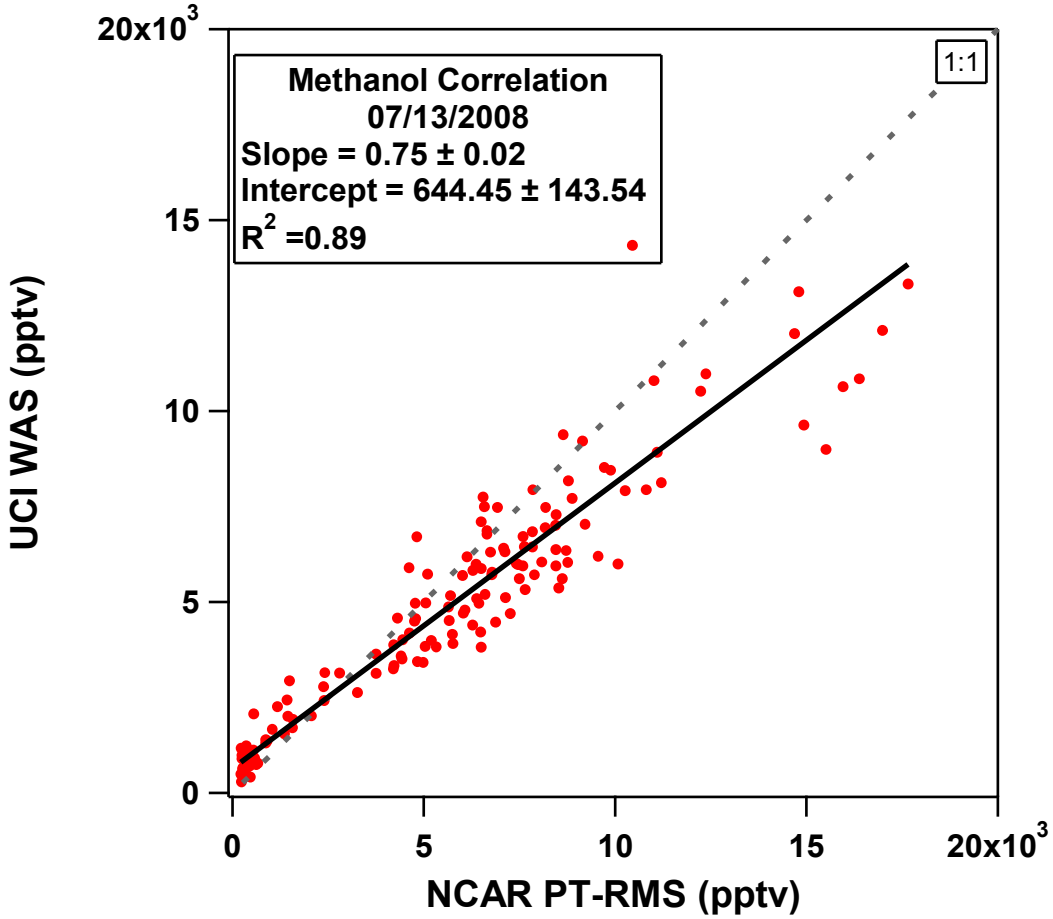

MAC Correlation
07/13/2008
Slope = 0.75 ± 0.05
Intercept = -1.59 ± 9.87
R2 =0.82
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
1000
800
600
400
200
0
0
200
400
600
800
1000

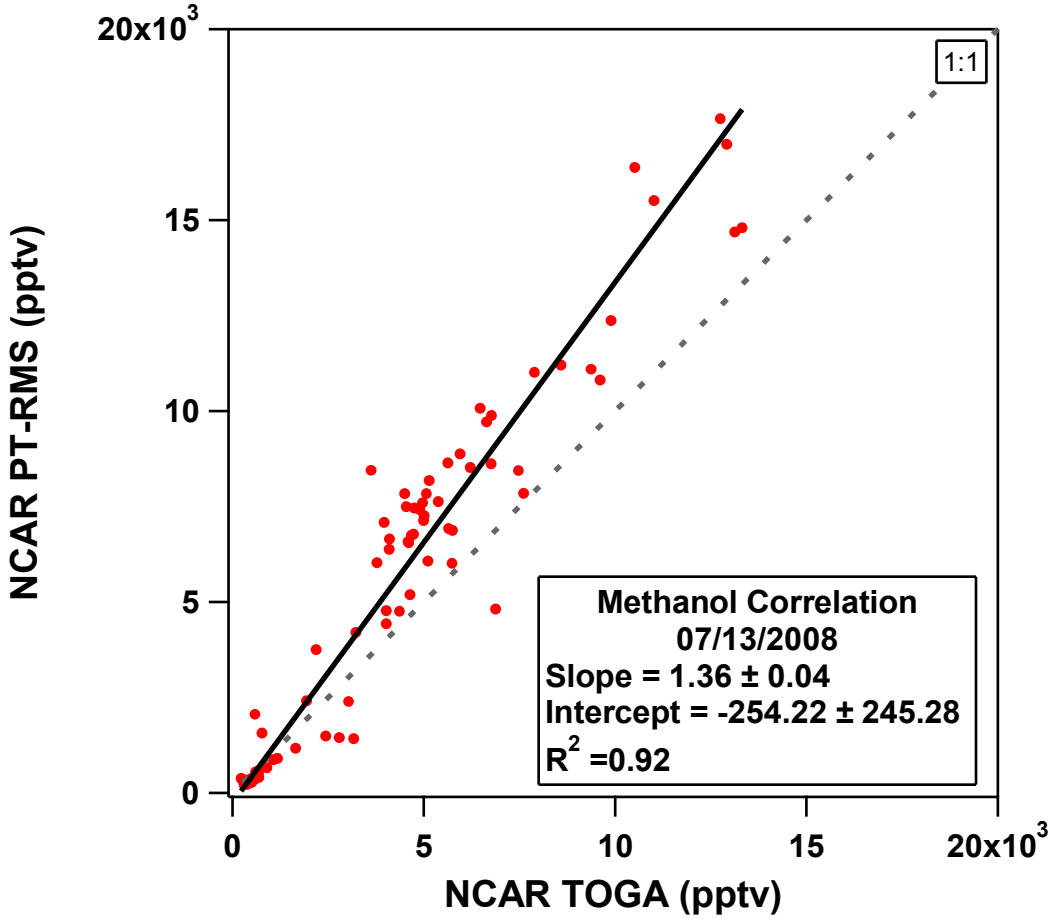

07/13/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
MEK (pptv)
Altitude (km)
GMT
500
400
300
200
100
0
10
8
6
4
2
0
17:00
18:00
19:00
20:00
21:00
22:00
23:00

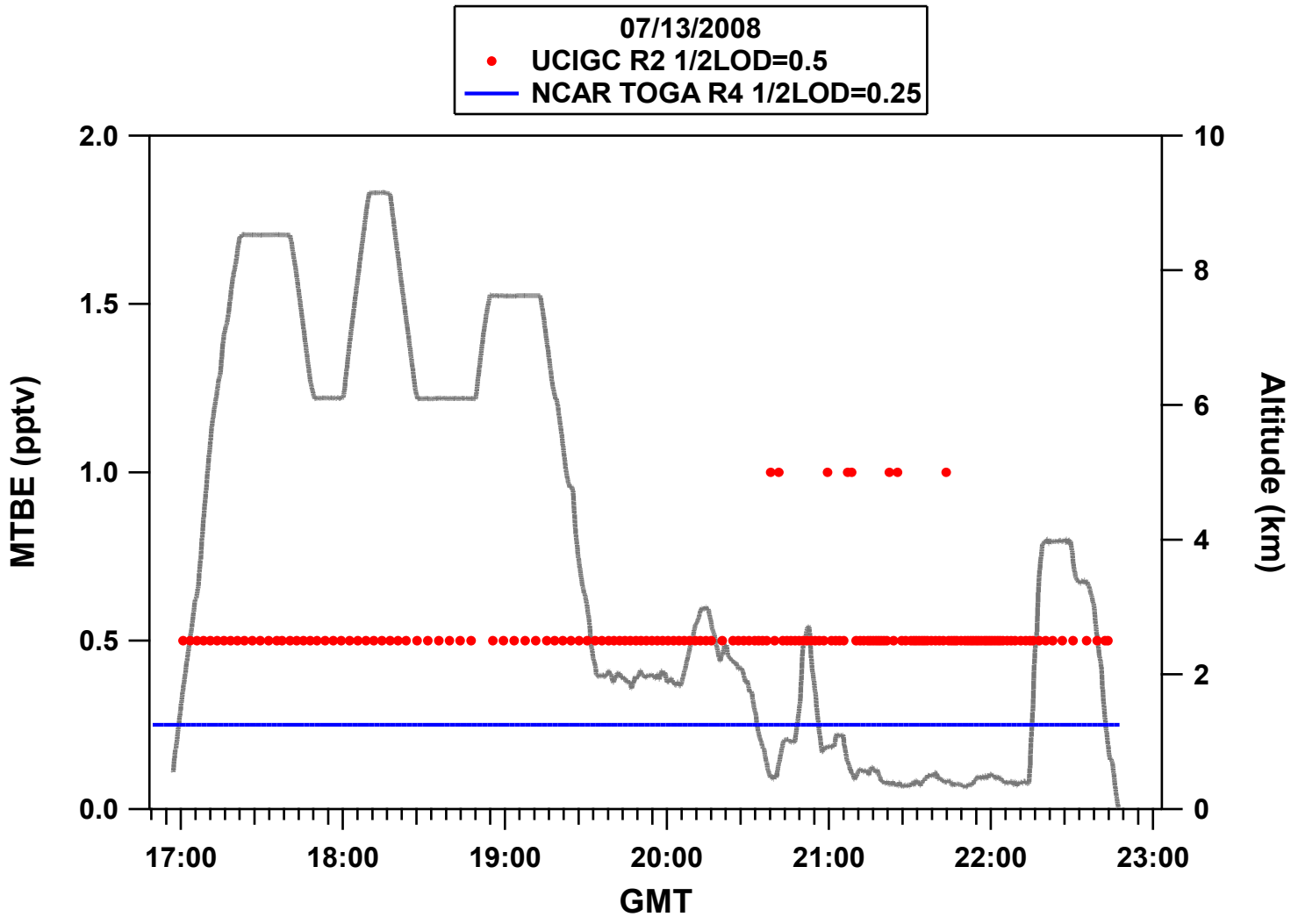

MEK Correlation
07/13/2008
Slope = 0.86 ± 0.05
Intercept = 17.31 ± 7.77
R2 =0.79
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
500
400
300
200
100
0
0
100
200
300
400
500

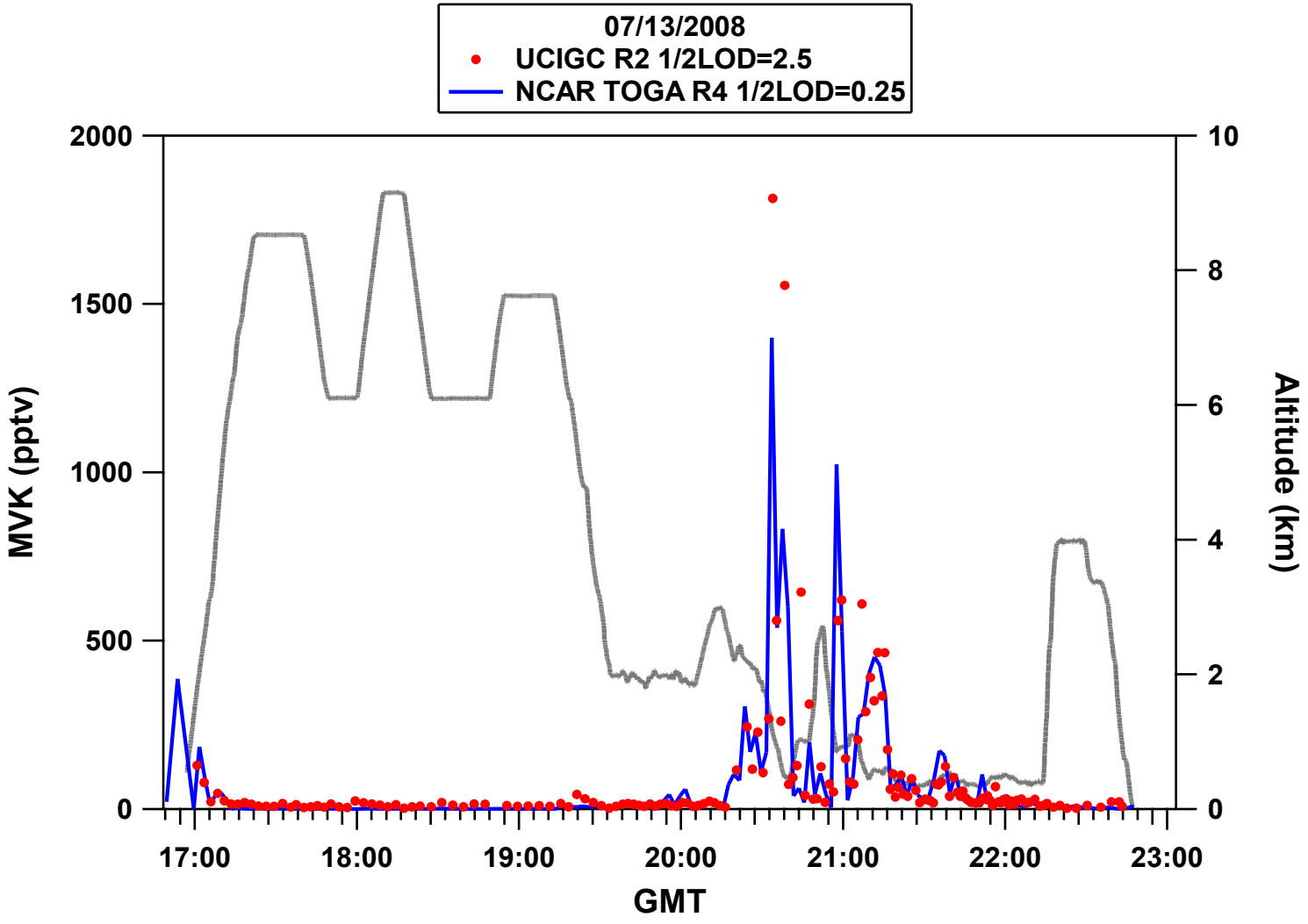

07/13/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=10
PTRMS R1
Methanol (pptv)
14x10^3
12
10
8
6
4
2
0
Altitude (km)
10
8
6
4
2
0
17:00
18:00
19:00
20:00
21:00
22:00
23:00
GMT

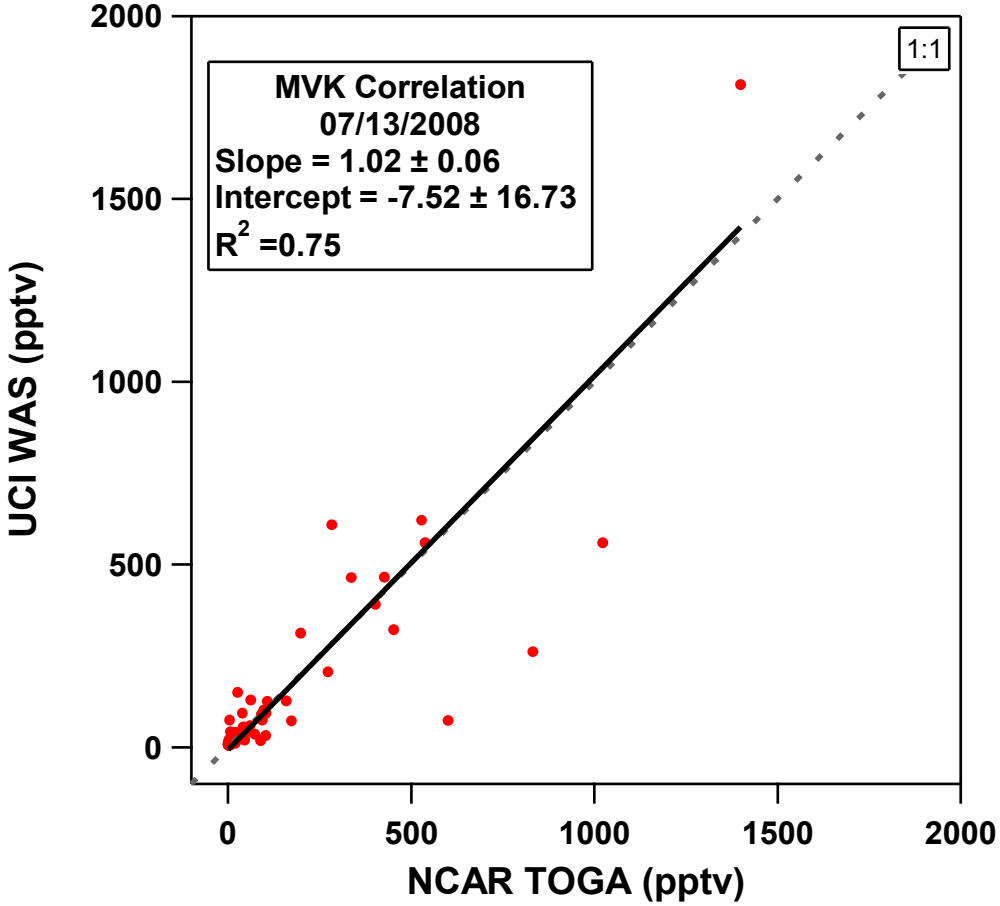

Methanol Correlation
07/13/2008
Slope = 1.00 ± 0.04
Intercept = 611.39 ± 209.22
R2 =0.88
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
0
2
4
6
8
10
12
14x10^3

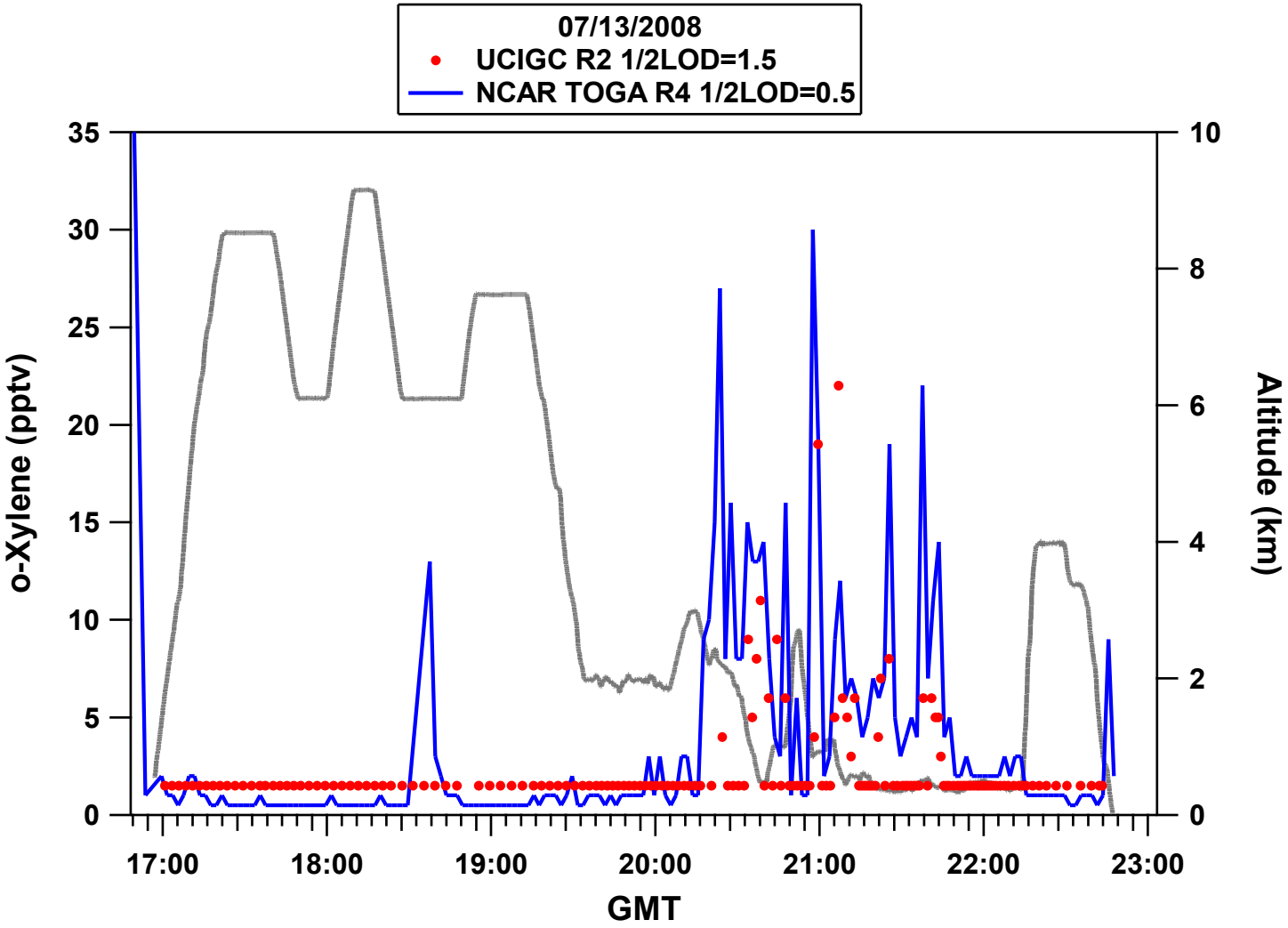

Methanol Correlation
07/13/2008
Slope = 0.75 ± 0.02
Intercept = 644.45 ± 143.54
R2 =0.89
1:1
UCI WAS (pptv)
NCAR PT-RMS (pptv)
0
5
10
15
20x10^3

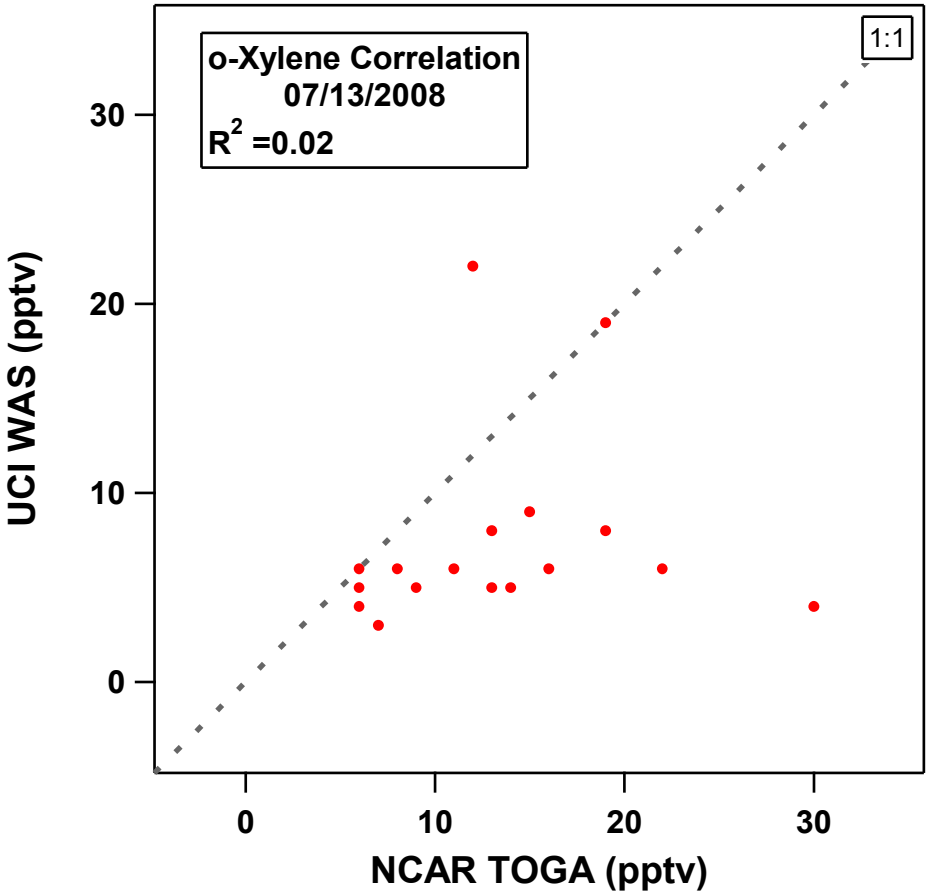

20x10^3
15
10
5
0
NCAR PT-RMS (pptv)
0
5
10
15
20x10^3
NCAR TOGA (pptv)
1:1
Methanol Correlation
07/13/2008
Slope = 1.36 ± 0.04
Intercept = -254.22 ± 245.28
R^2 =0.92

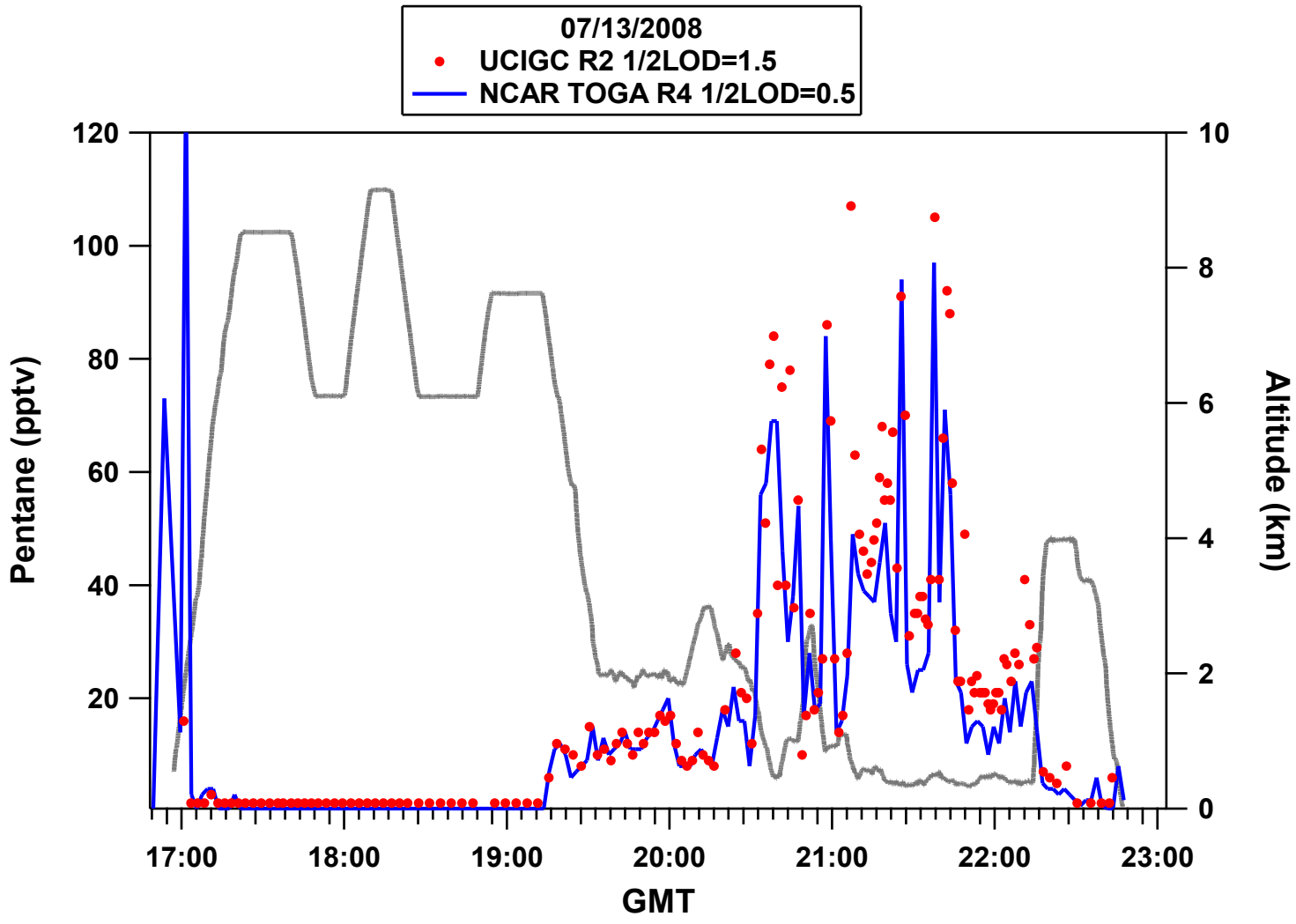

07/13/2008
UCIGC R2 1/2LOD=0.5
NCAR TOGA R4 1/2LOD=0.25
MTBE (pptv)
Altitude (km)
GMT
2.0
1.5
1.0
0.5
0.0
10
8
6
4
2
0
17:00
18:00
19:00
20:00
21:00
22:00
23:00

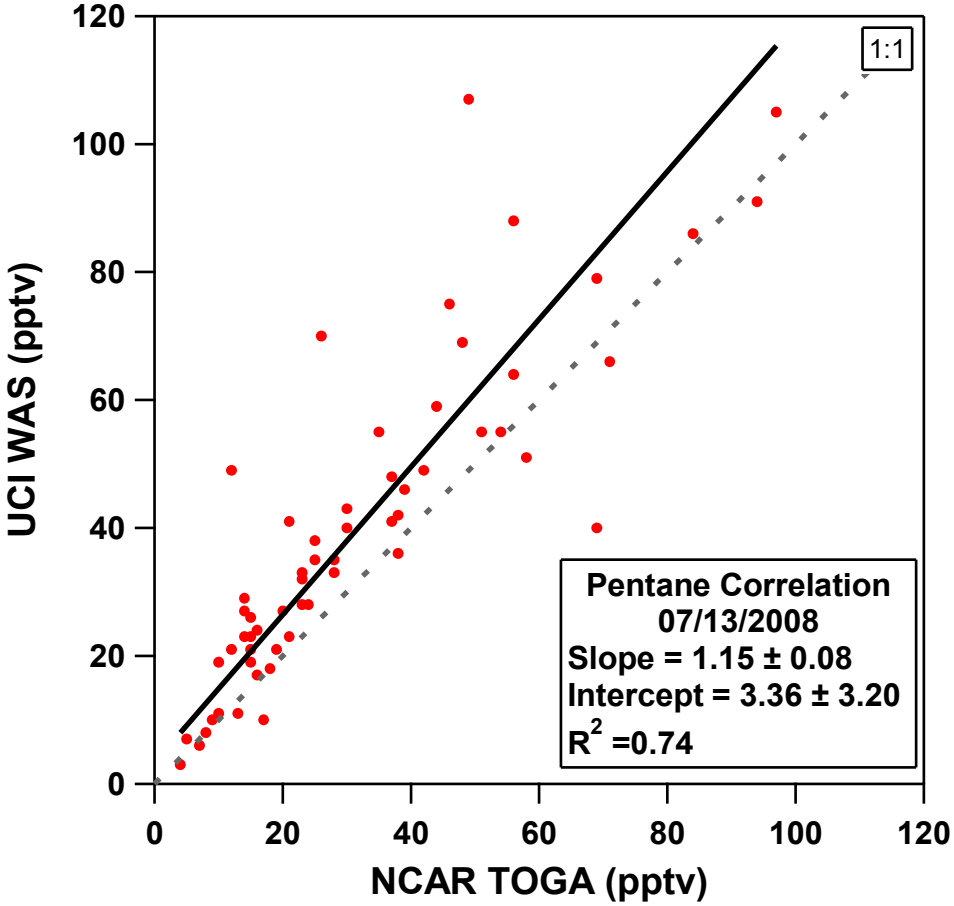

07/13/2008
UCIGC R2 1/2LOD=2.5
NCAR TOGA R4 1/2LOD=0.25
MVK (pptv)
Altitude (km)
GMT
2000
1500
1000
500
0
10
8
6
4
2
0
17:00
18:00
19:00
20:00
21:00
22:00
23:00

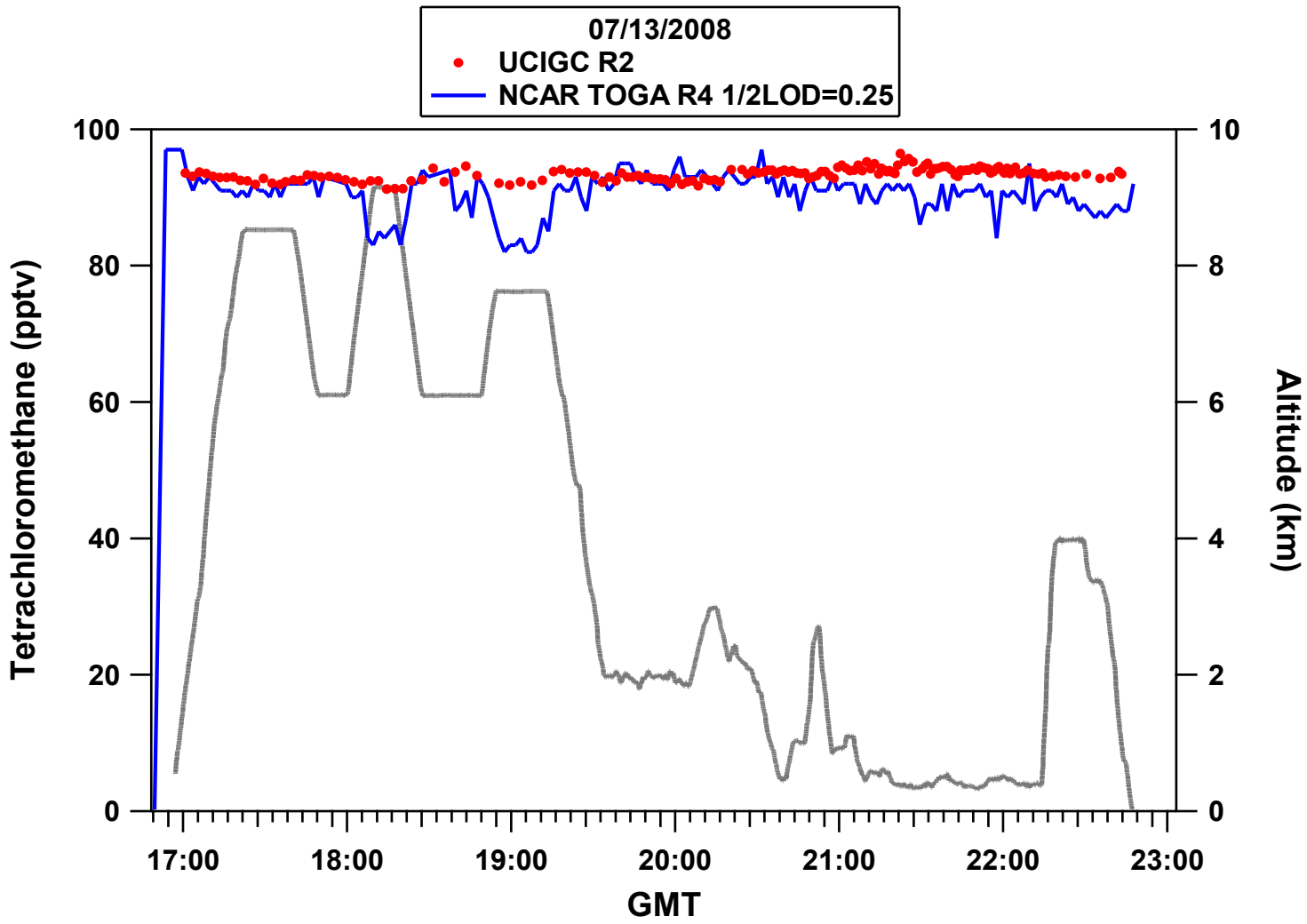

MVK Correlation
07/13/2008
Slope = 1.02 ± 0.06
Intercept = -7.52 ± 16.73
R2 =0.75
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
0
500
1000
1500
2000

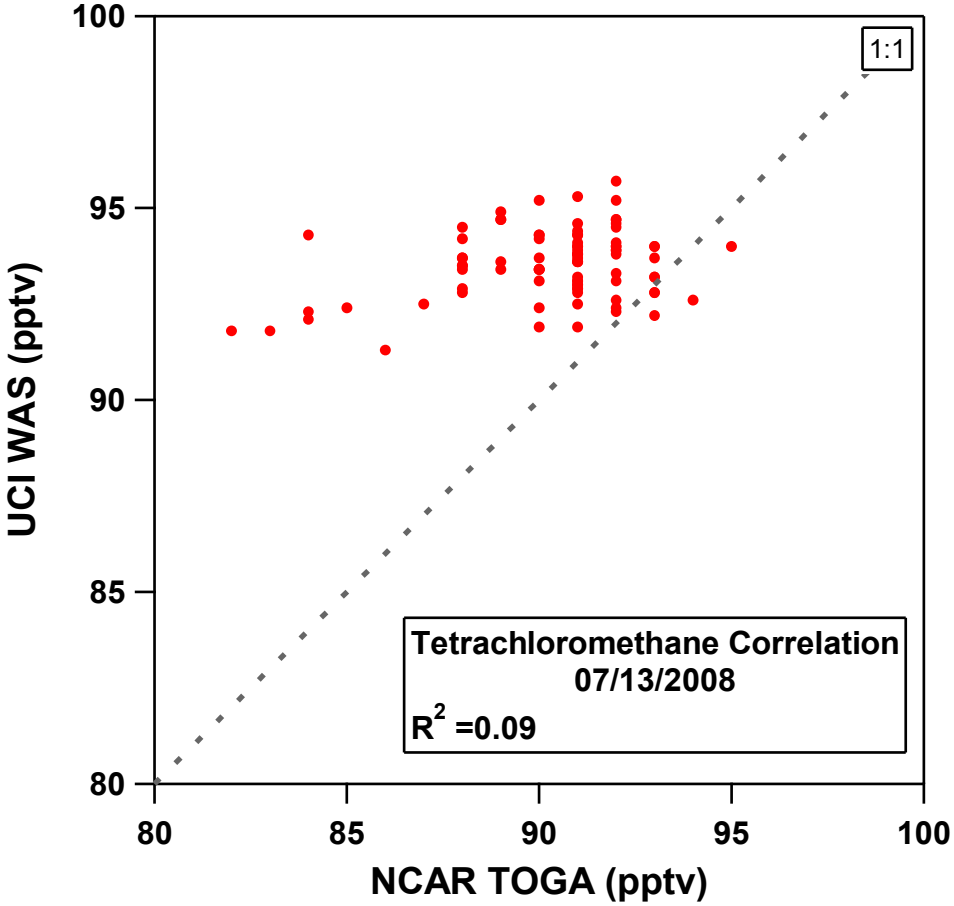

07/13/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
o-Xylene (pptv)
Altitude (km)
GMT
35
30
25
20
15
10
5
0
10
8
6
4
2
0
17:00
18:00
19:00
20:00
21:00
22:00
23:00

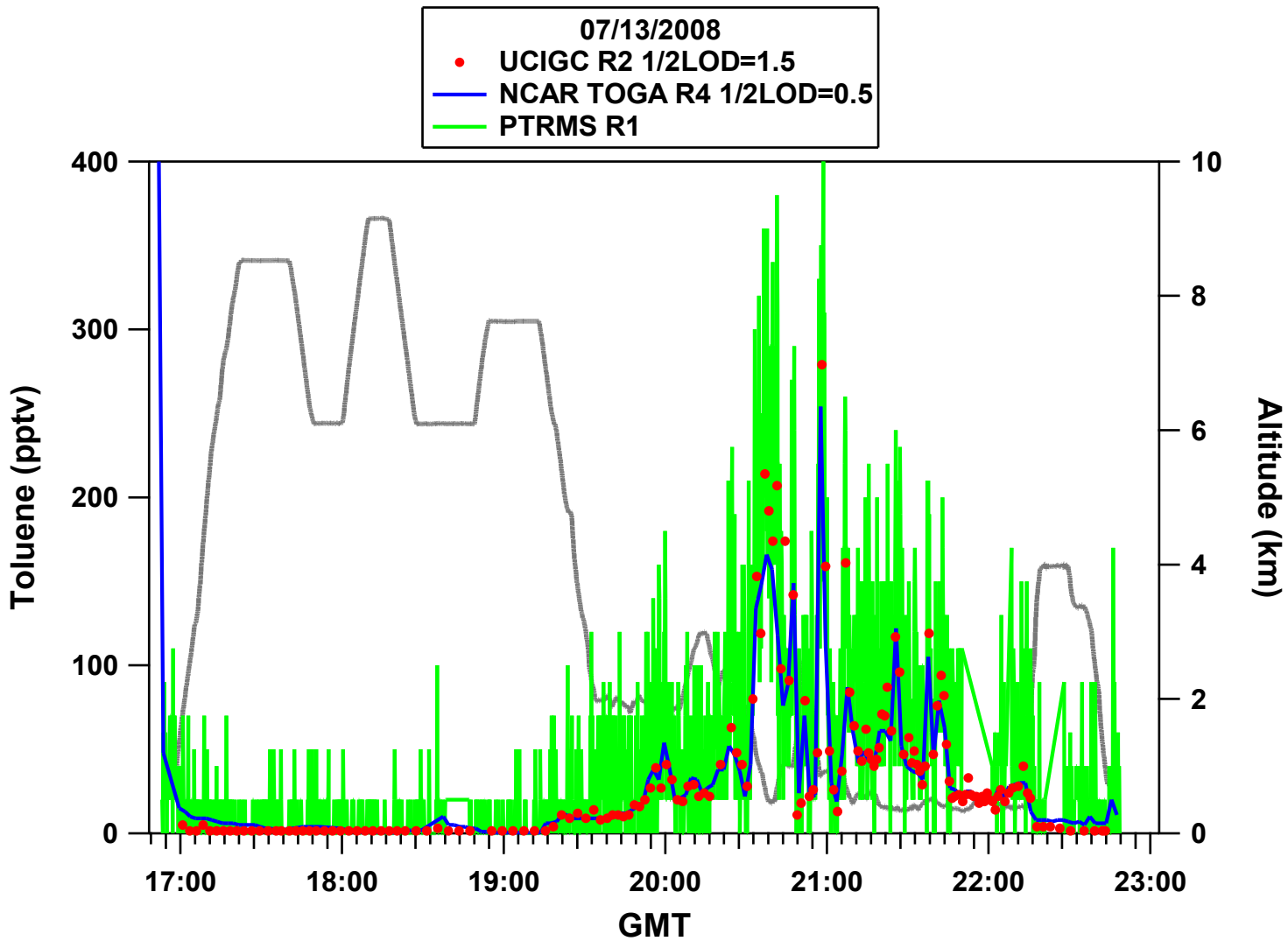

o-Xylene Correlation
07/13/2008
R2 =0.02
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
0
10
20
30
0
10
20
30

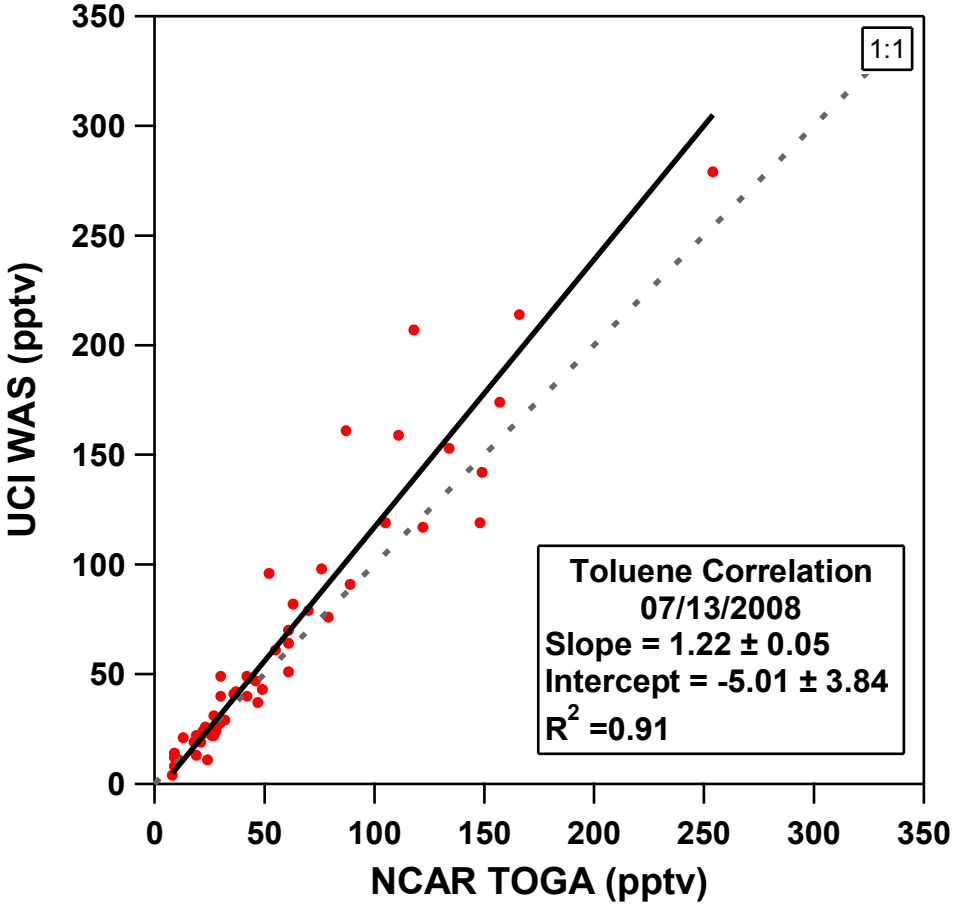

07/13/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
Pentane (pptv)
Altitude (km)
GMT
120
100
80
60
40
20
10
8
6
4
2
0
17:00
18:00
19:00
20:00
21:00
22:00
23:00

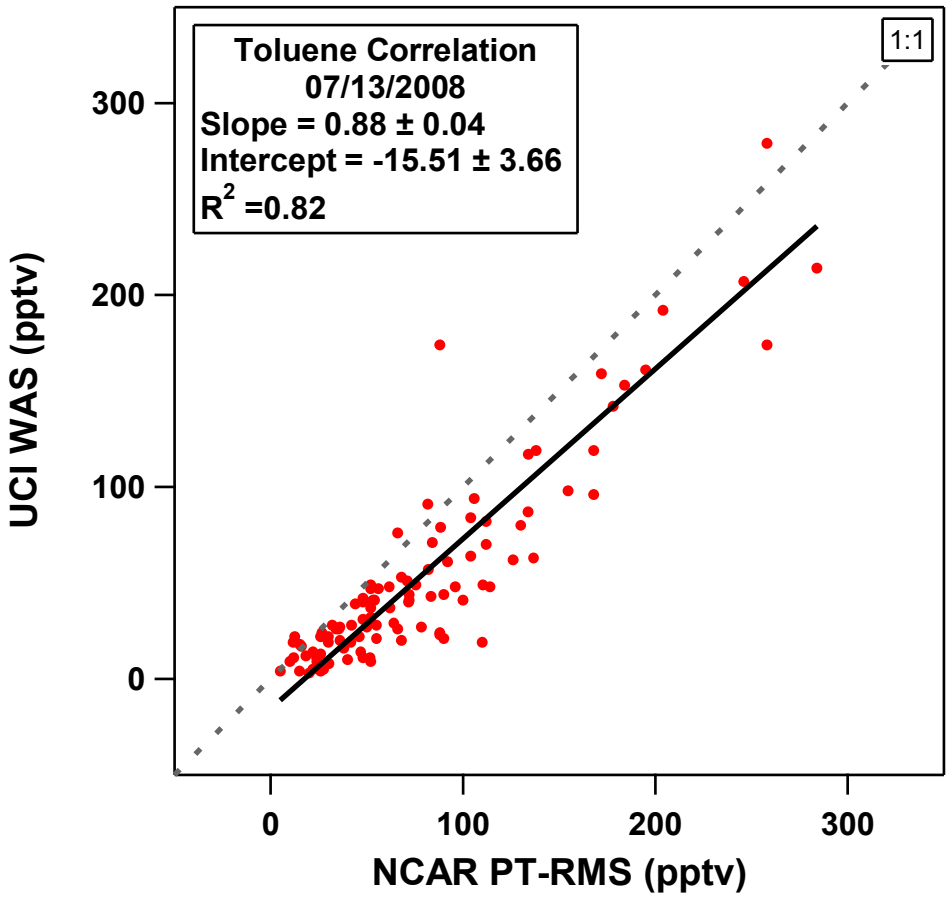

1:1
Pentane Correlation
07/13/2008
Slope = 1.15 ± 0.08
Intercept = 3.36 ± 3.20
R2 =0.74
UCI WAS (pptv)
NCAR TOGA (pptv)
0
20
40
60
80
100
120

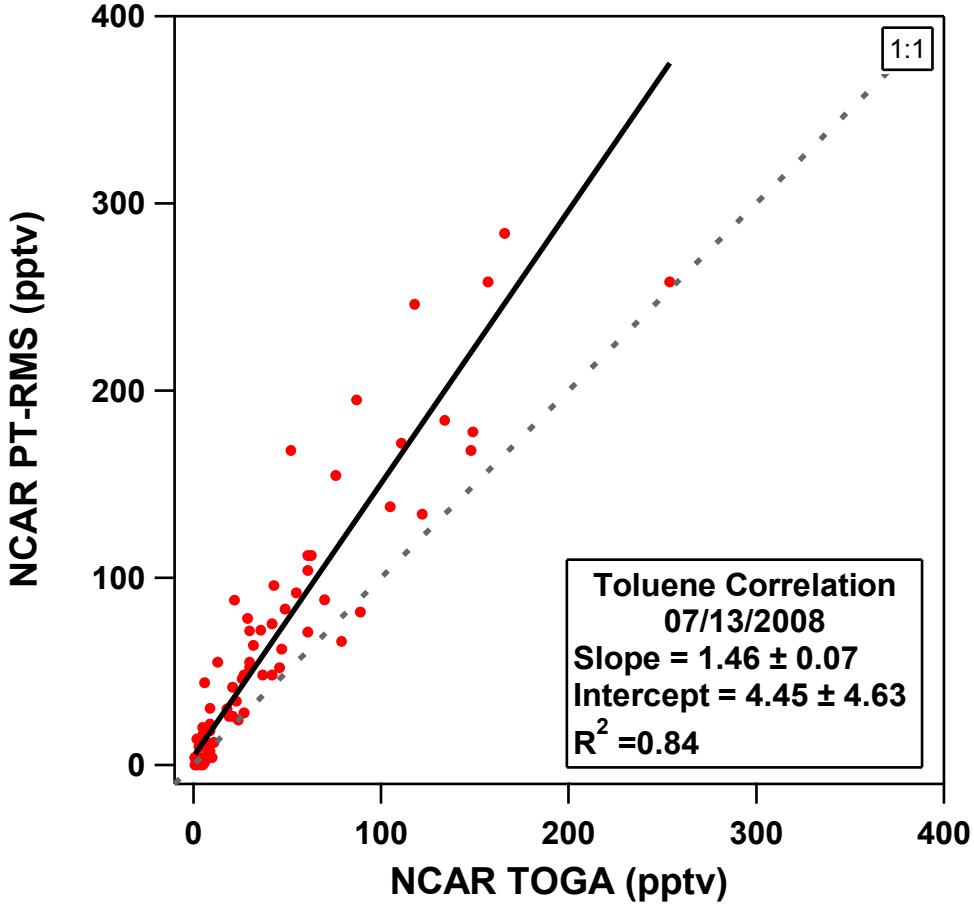

07/13/2008
UCIGC R2
NCAR TOGA R4 1/2LOD=0.25
Tetrachloromethane (pptv)
Altitude (km)
GMT
100
80
60
40
20
0
10
8
6
4
2
0
17:00
18:00
19:00
20:00
21:00
22:00
23:00


1:1
Tetrachloromethane Correlation
07/13/2008
R2 =0.09
UCI WAS (pptv)
NCAR TOGA (pptv)
100
95
90
85
80
80
85
90
95
100


07/13/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
PTRMS R1
Toluene (pptv)
Altitude (km)
GMT
400
300
200
100
0
10
8
6
4
2
0
17:00
18:00
19:00
20:00
21:00
22:00
23:00


1:1
Toluene Correlation
07/13/2008
Slope = 1.22 ± 0.05
Intercept = -5.01 ± 3.84
R2 =0.91
UCI WAS (pptv)
NCAR TOGA (pptv)
0
50
100
150
200
250
300
350


Toluene Correlation
07/13/2008
Slope = 0.88 ± 0.04
Intercept = -15.51 ± 3.66
R2 =0.82
1:1
UCI WAS (pptv)
NCAR PT-RMS (pptv)
0
100
200
300
0
100
200
300


400
300
200
100
0
NCAR PT-RMS (pptv)
0
100
200
300
400
NCAR TOGA (pptv)
1:1
Toluene Correlation
07/13/2008
Slope = 1.46 ± 0.07
Intercept = 4.45 ± 4.63
R2 =0.84