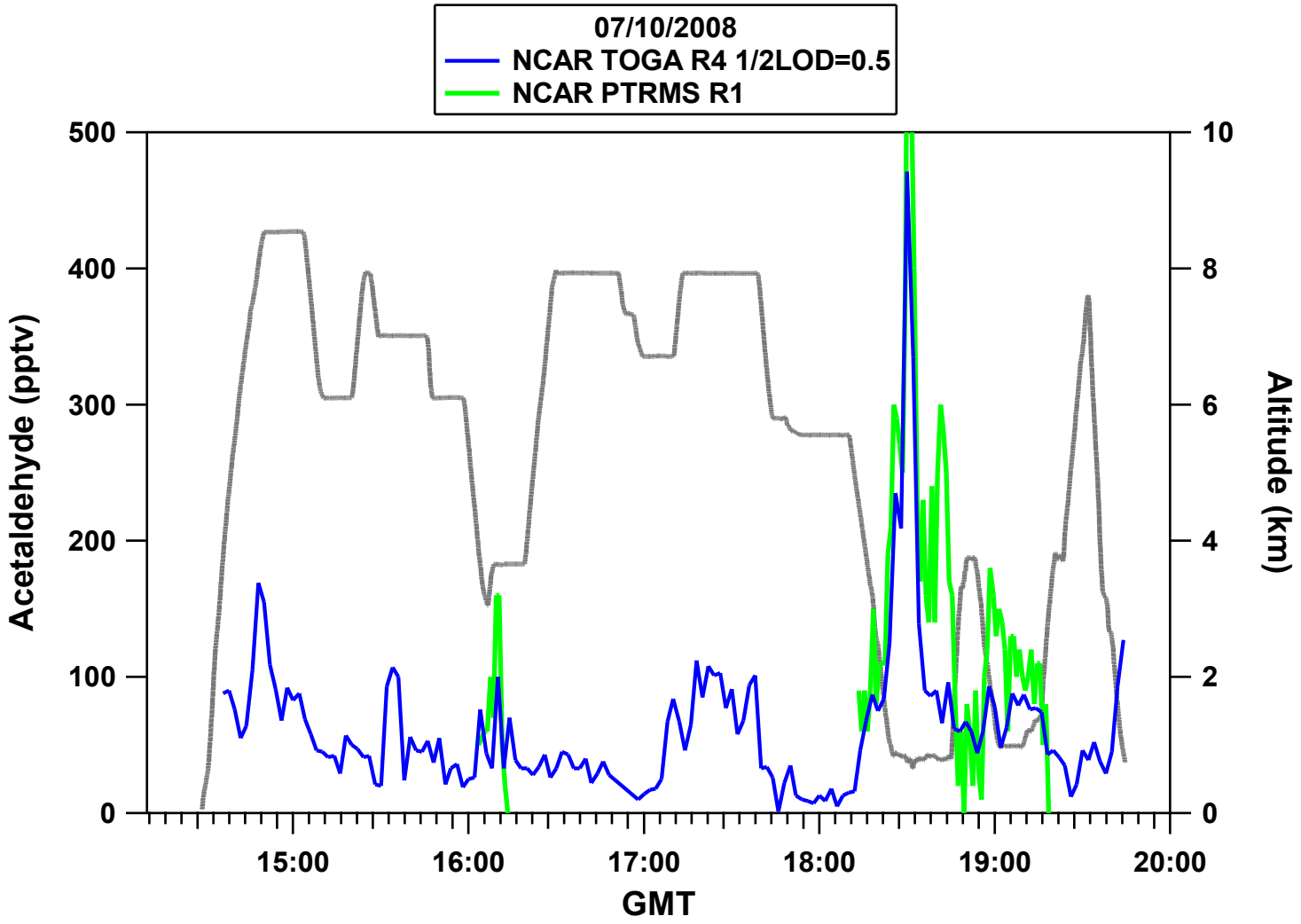
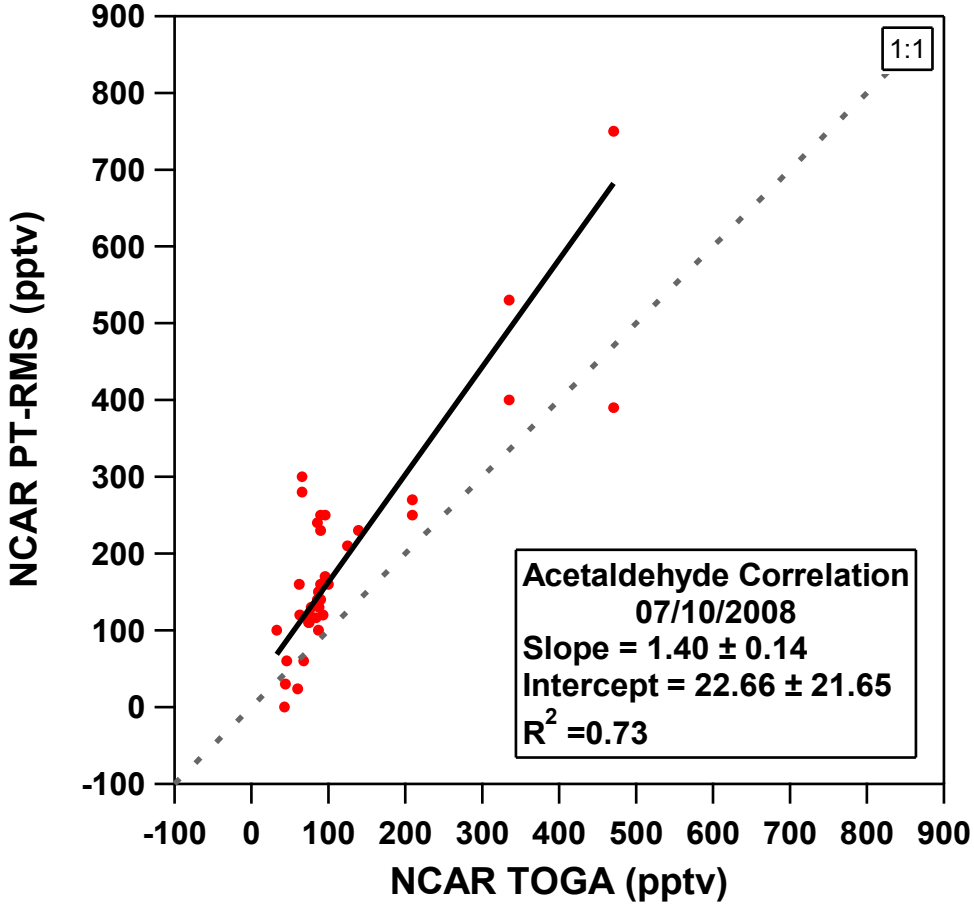
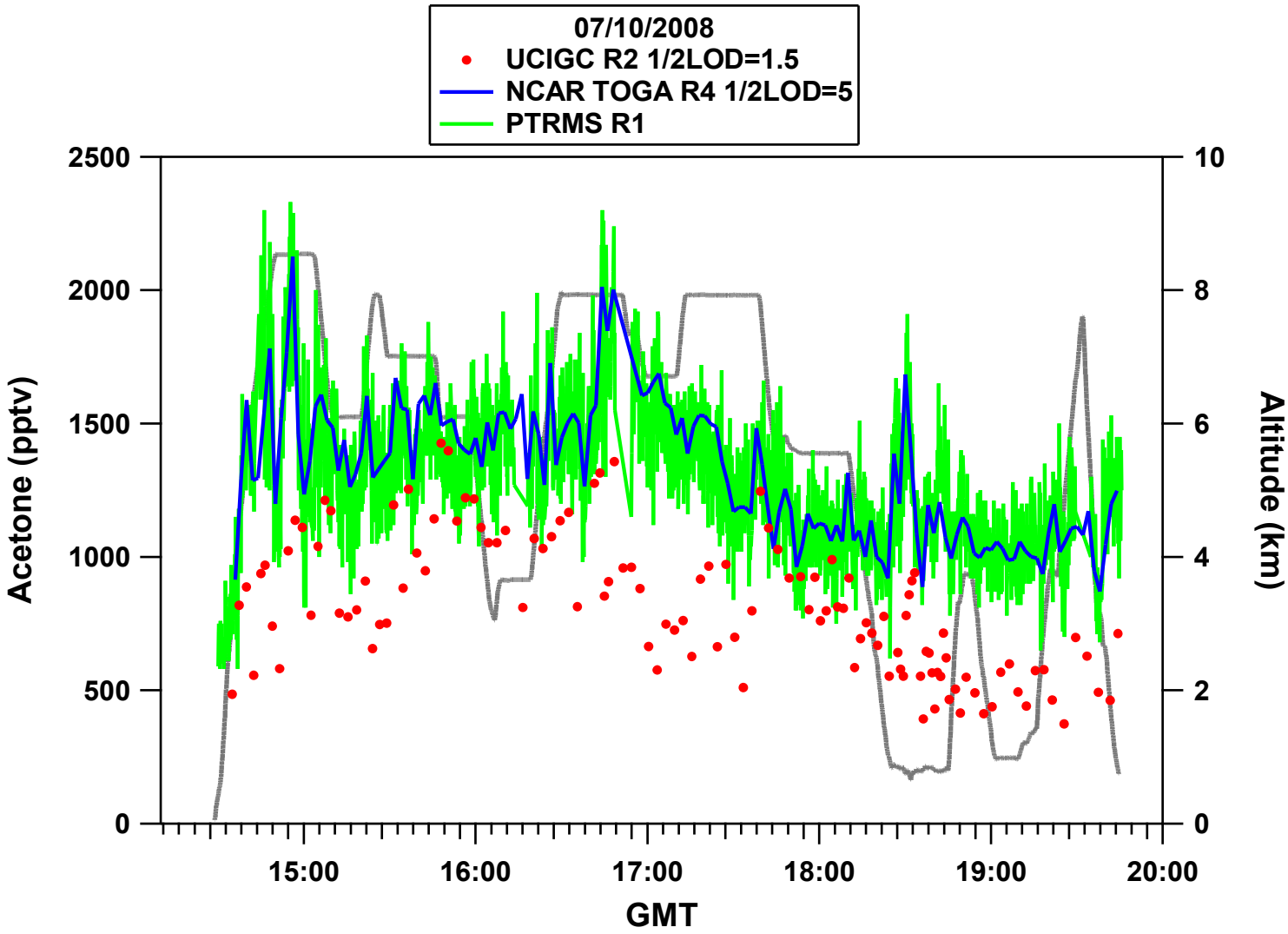
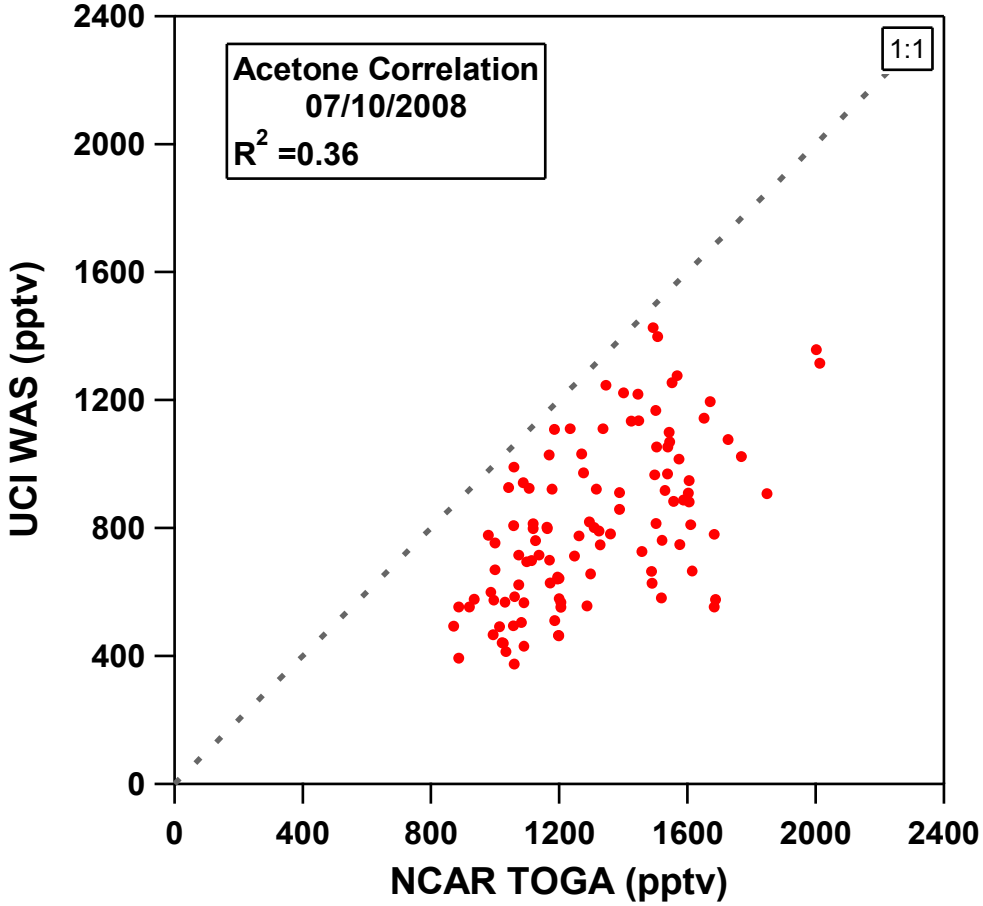
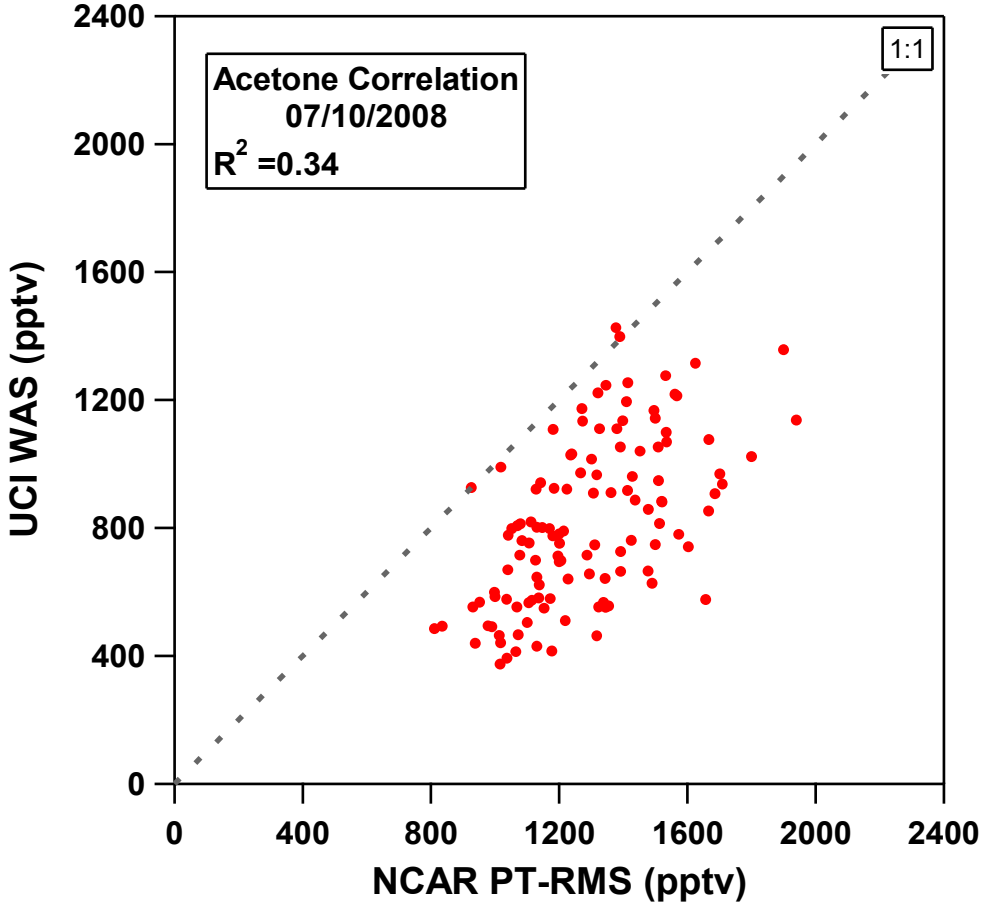
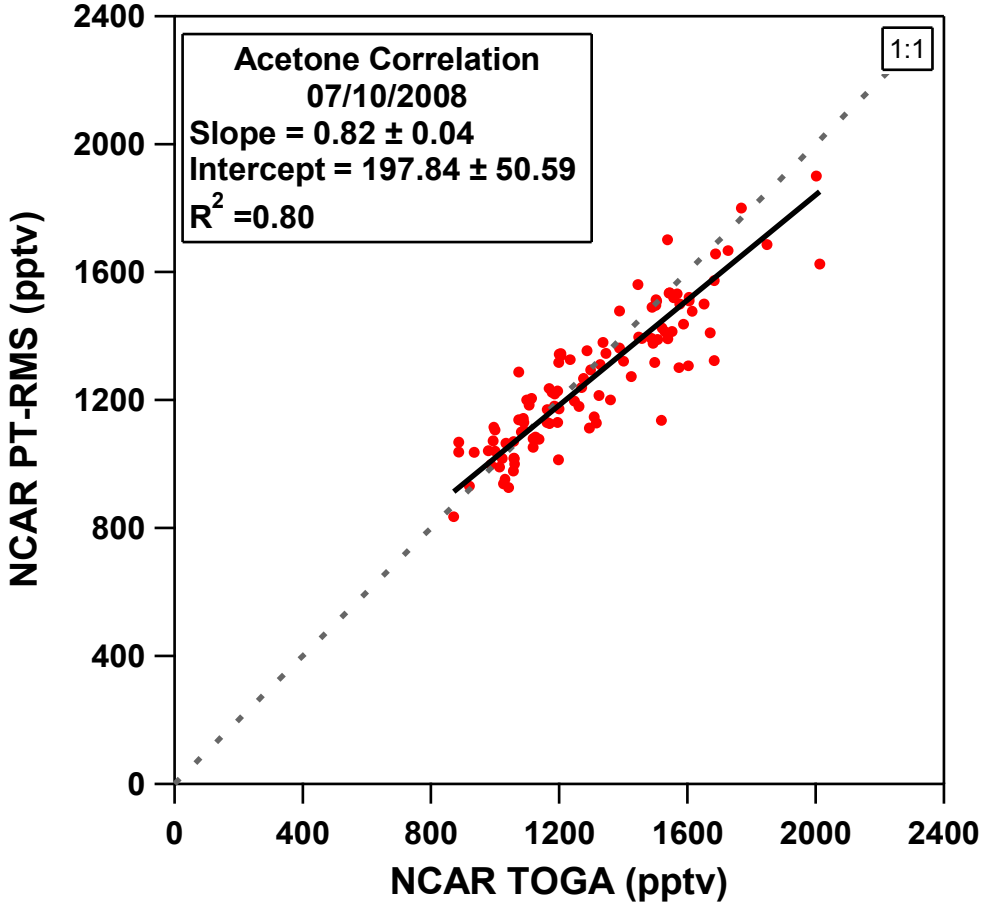

07/10/2008
NCAR TOGA R4 1/2LOD=0.5
NCAR PTRMS R1
Acetaldehyde (pptv)
Altitude (km)
GMT
500
400
300
200
100
0
10
8
6
4
2
0
15:00
16:00
17:00
18:00
19:00
20:00

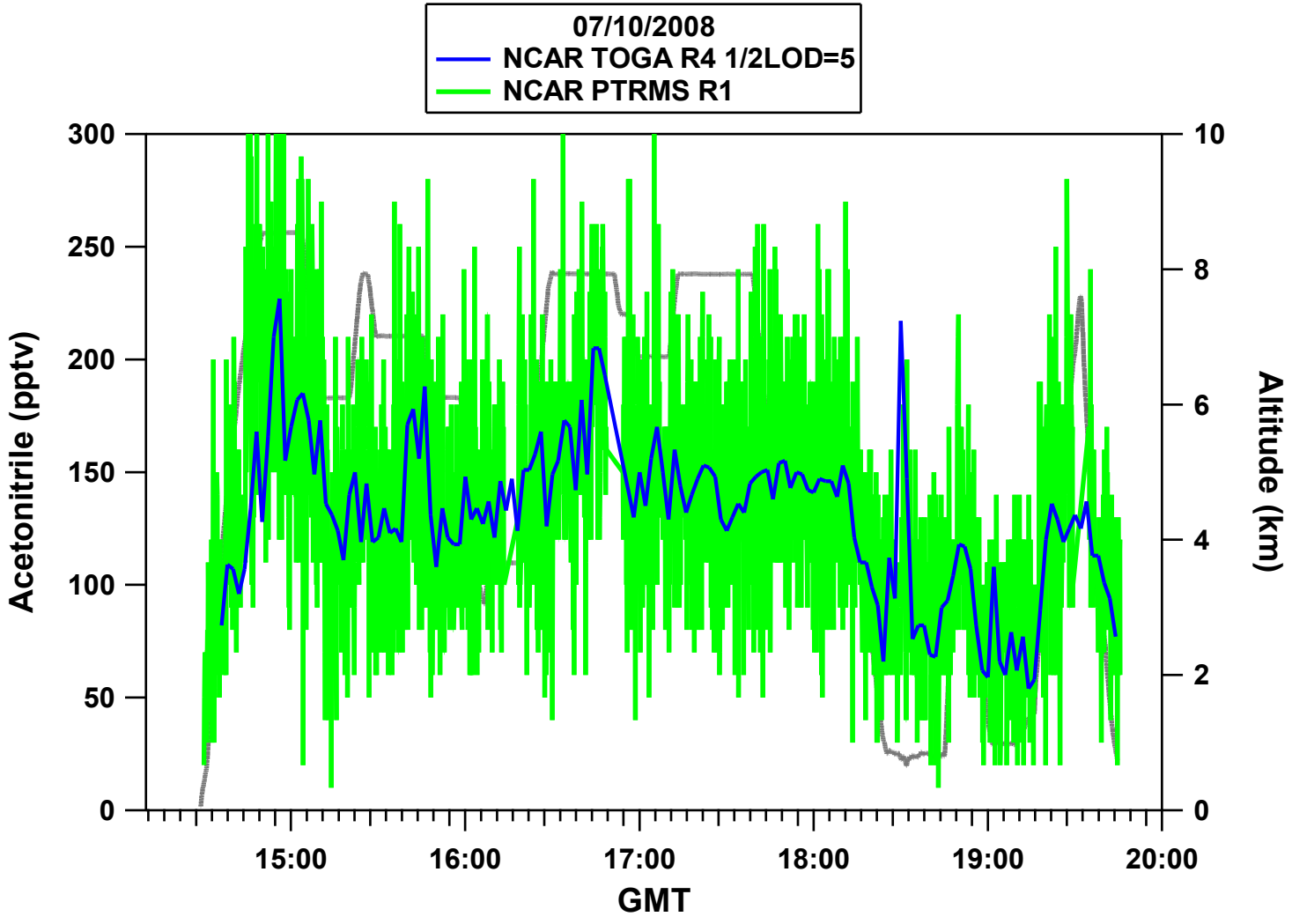

1:1
Acetaldehyde Correlation
07/10/2008
Slope = 1.40 ± 0.14
Intercept = 22.66 ± 21.65
R2 =0.73
NCAR PT-RMS (pptv)
NCAR TOGA (pptv)
900
800
700
600
500
400
300
200
100
0
-100
-100
0
100
200
300
400
500
600
700
800
900

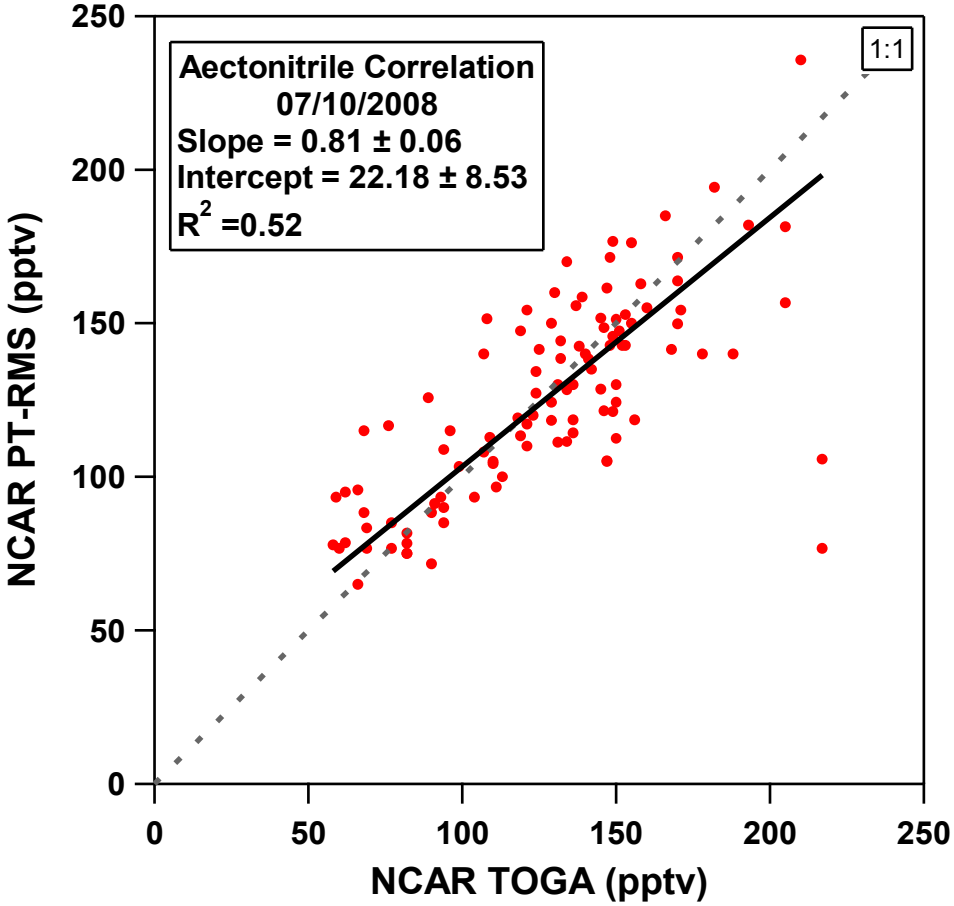

07/10/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=5
PTRMS R1
Acetone (pptv)
Altitude (km)
GMT
2500
2000
1500
1000
500
0
10
8
6
4
2
0
15:00
16:00
17:00
18:00
19:00
20:00

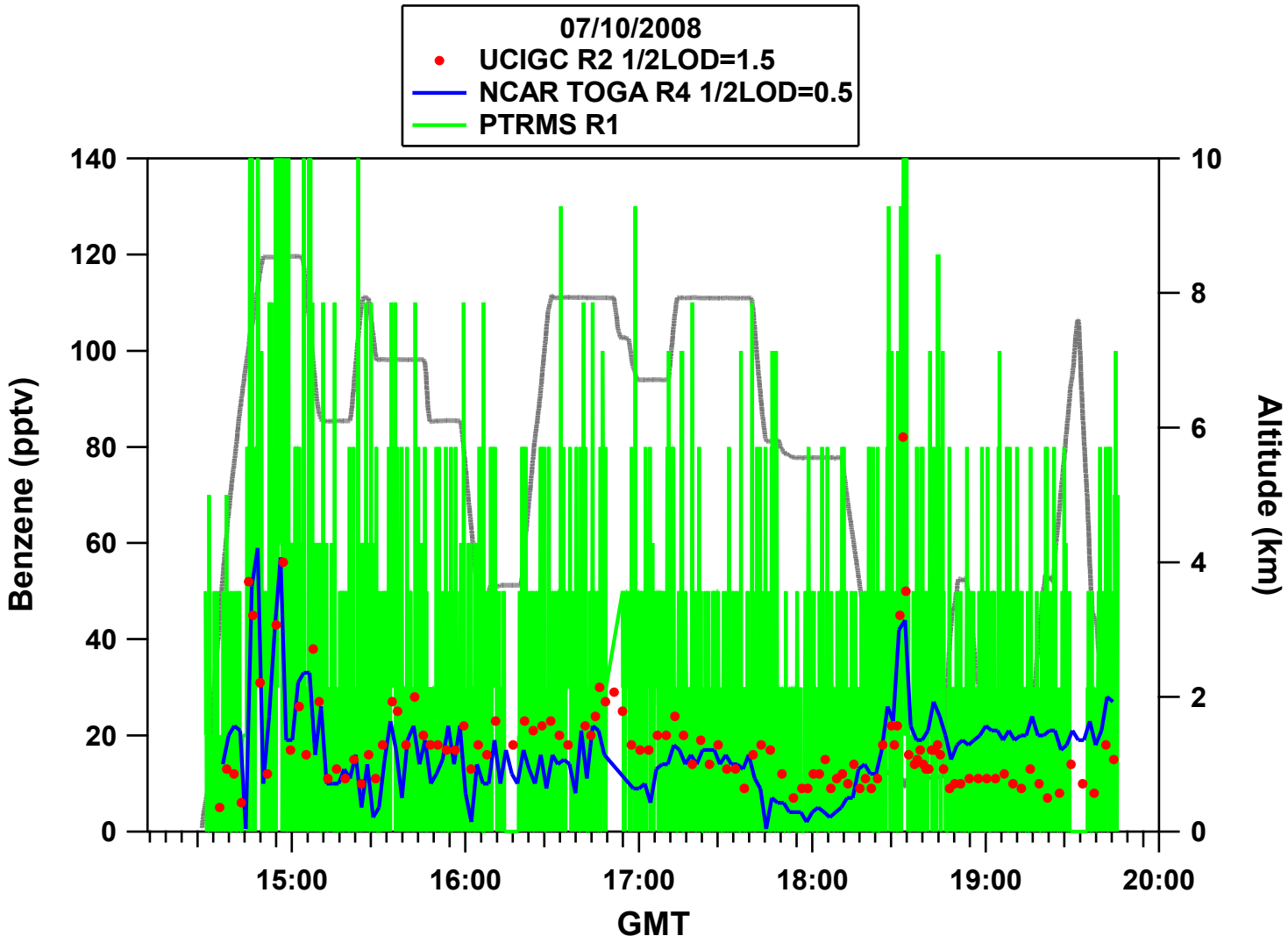

Acetone Correlation
07/10/2008
R2 =0.36
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
0
400
800
1200
1600
2000
2400

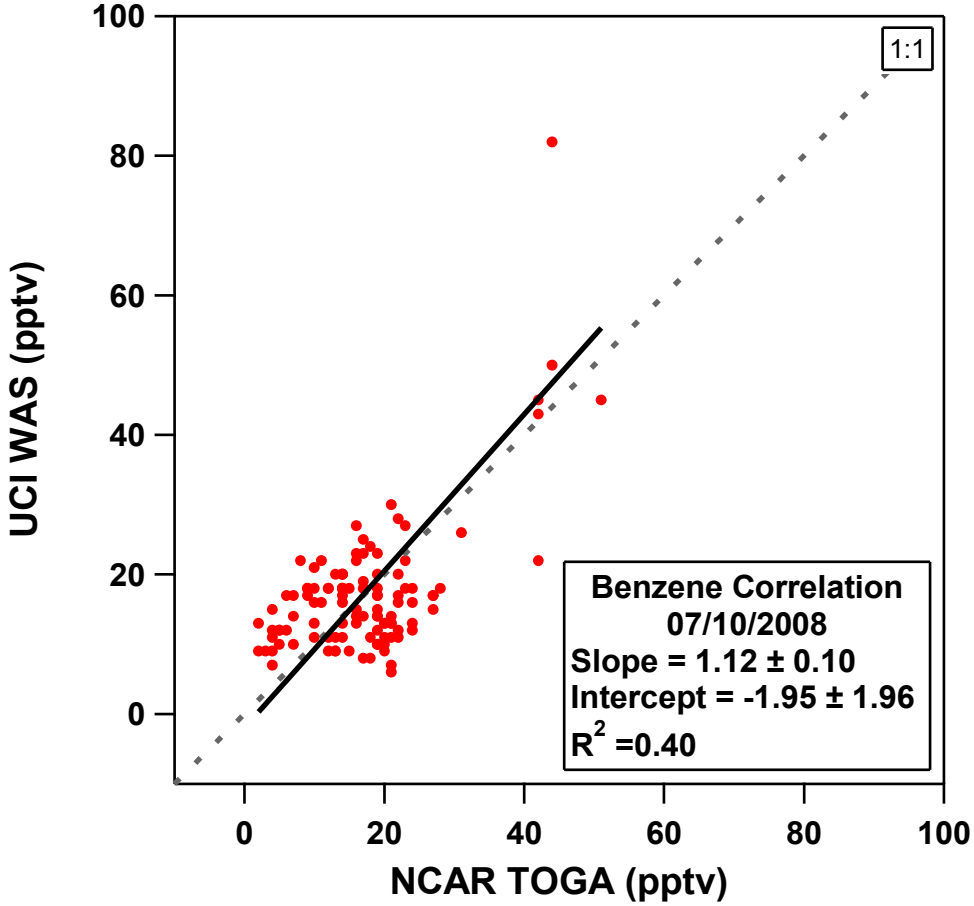

Acetone Correlation
07/10/2008
R2 =0.34
1:1
UCI WAS (pptv)
NCAR PT-RMS (pptv)
0
400
800
1200
1600
2000
2400

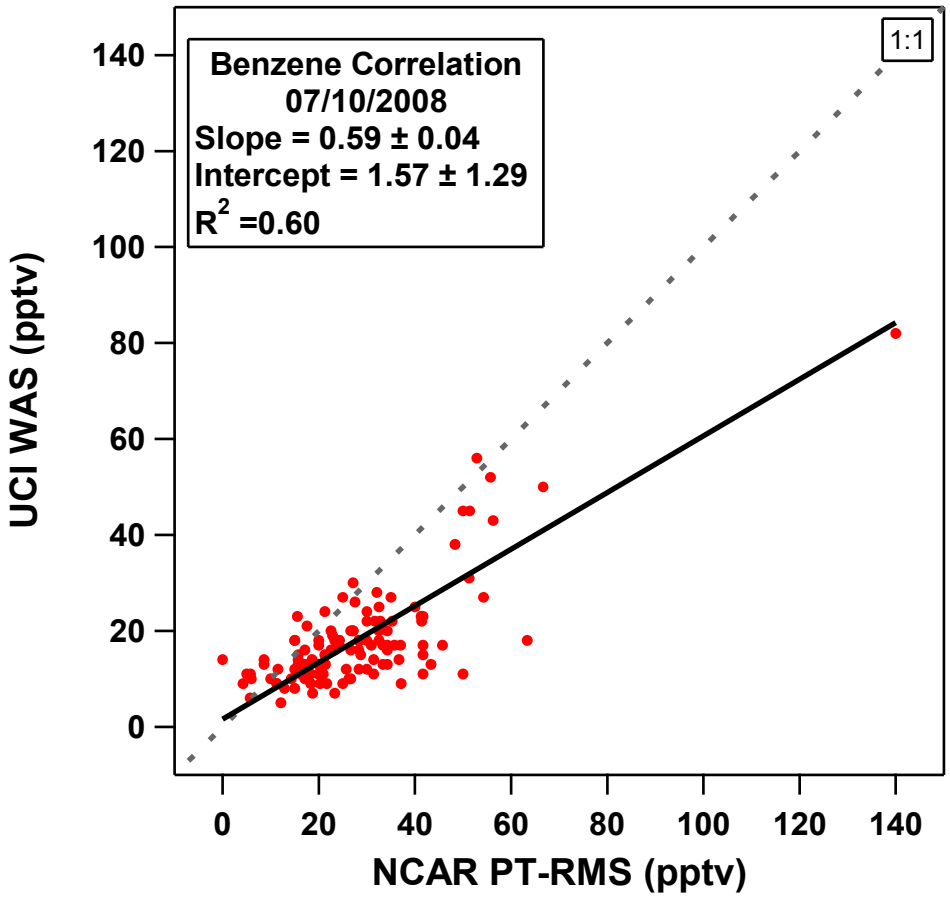

Acetone Correlation
07/10/2008
Slope = 0.82 ± 0.04
Intercept = 197.84 ± 50.59
R2 =0.80
1:1
NCAR PT-RMS (pptv)
NCAR TOGA (pptv)
0
400
800
1200
1600
2000
2400

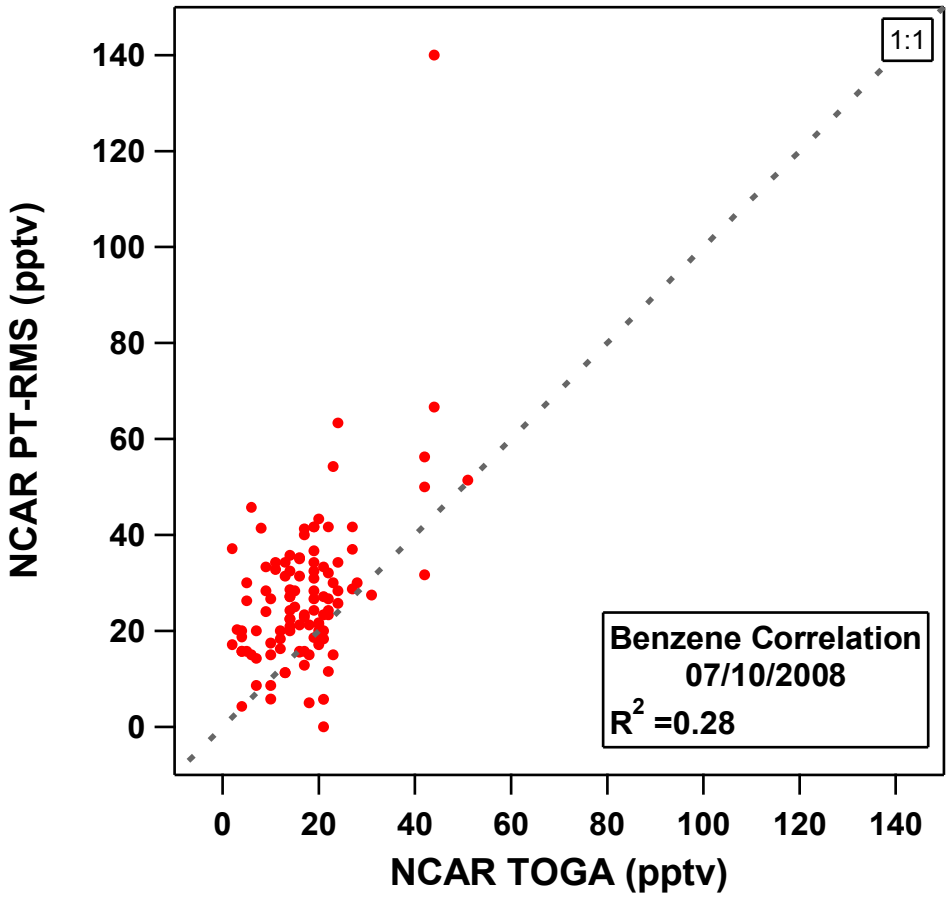

07/10/2008
NCAR TOGA R4 1/2LOD=5
NCAR PTRMS R1
Acetonitrile (pptv)
Altitude (km)
GMT
300
250
200
150
100
50
0
10
8
6
4
2
0
15:00
16:00
17:00
18:00
19:00
20:00

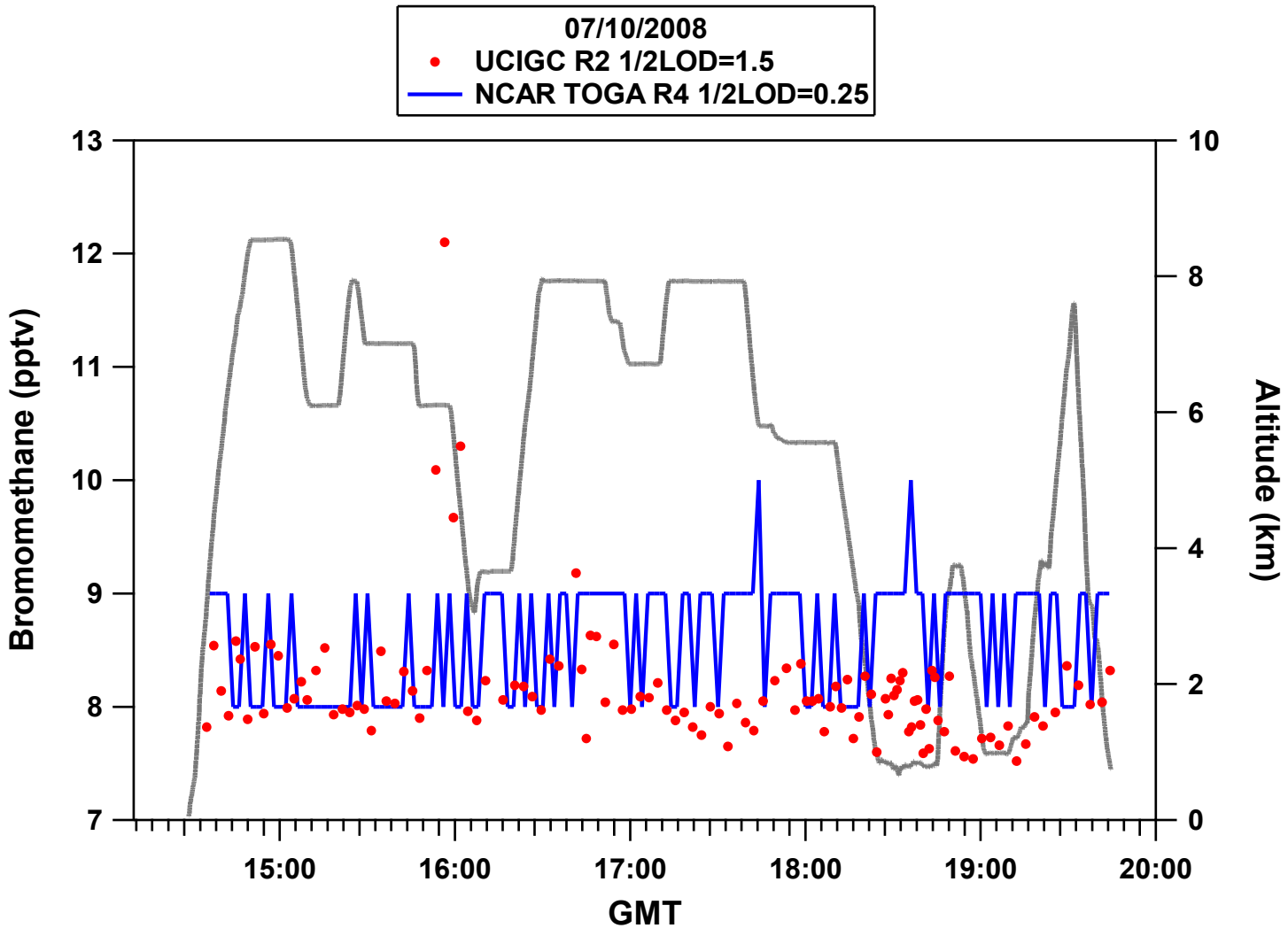

Aectonitrile Correlation
07/10/2008
Slope = 0.81 ± 0.06
Intercept = 22.18 ± 8.53
R2 =0.52
1:1
NCAR PT-RMS (pptv)
NCAR TOGA (pptv)
0
50
100
150
200
250

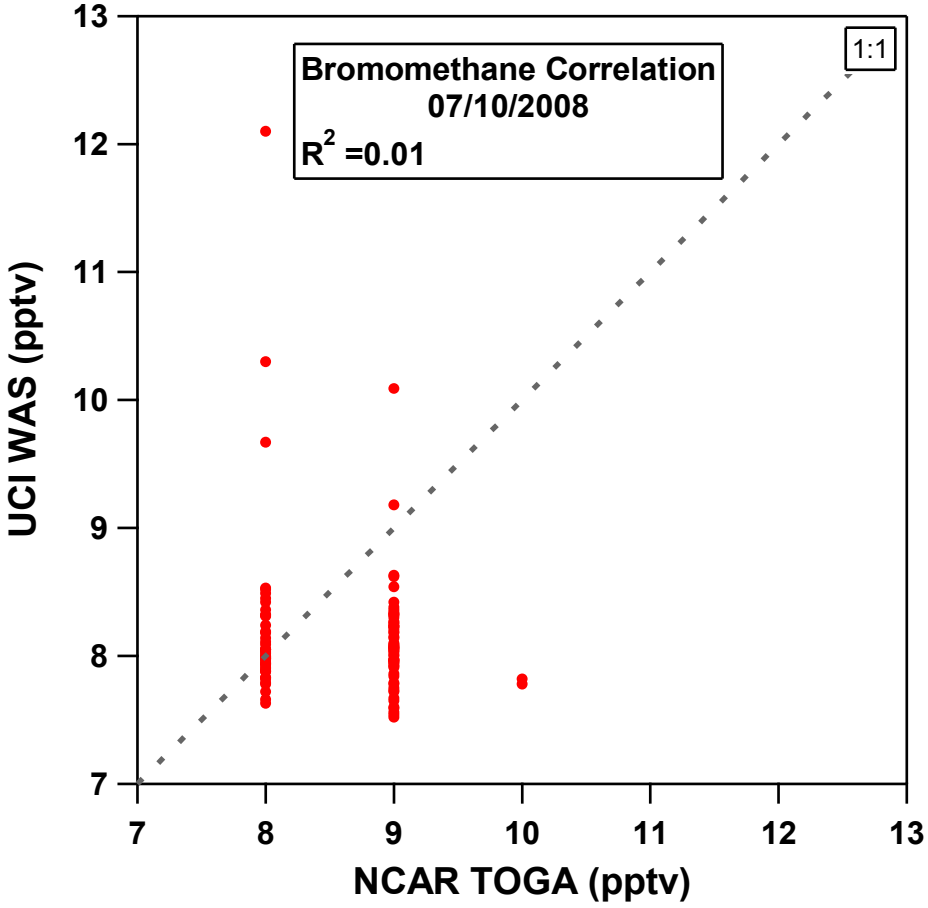

07/10/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
PTRMS R1
Benzene (pptv)
Altitude (km)
GMT
0
20
40
60
80
100
120
140
0
2
4
6
8
10
15:00
16:00
17:00
18:00
19:00
20:00

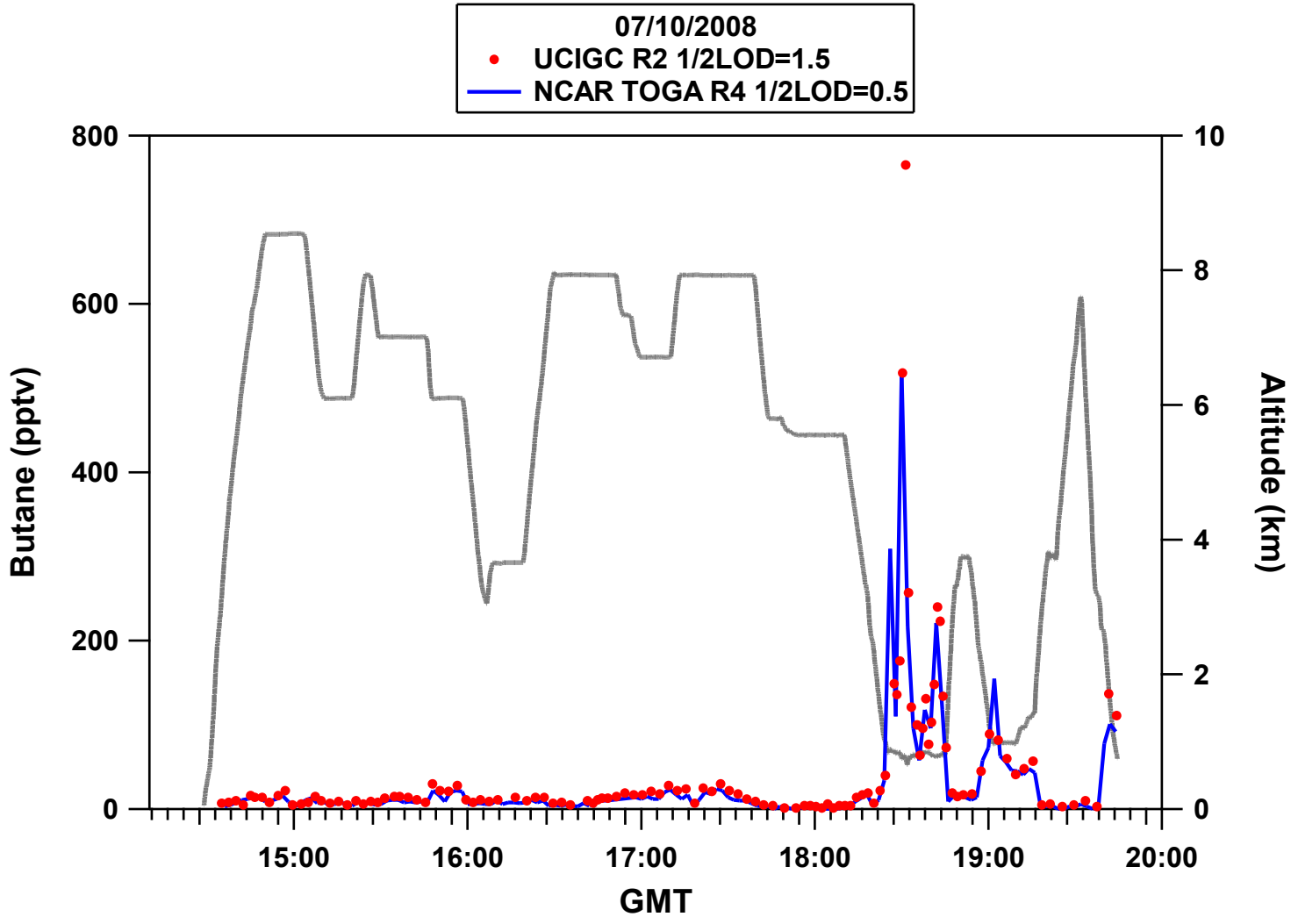

1:1
Benzene Correlation
07/10/2008
Slope = 1.12 ± 0.10
Intercept = -1.95 ± 1.96
R2 =0.40
UCI WAS (pptv)
NCAR TOGA (pptv)
100
80
60
40
20
0
0
20
40
60
80
100

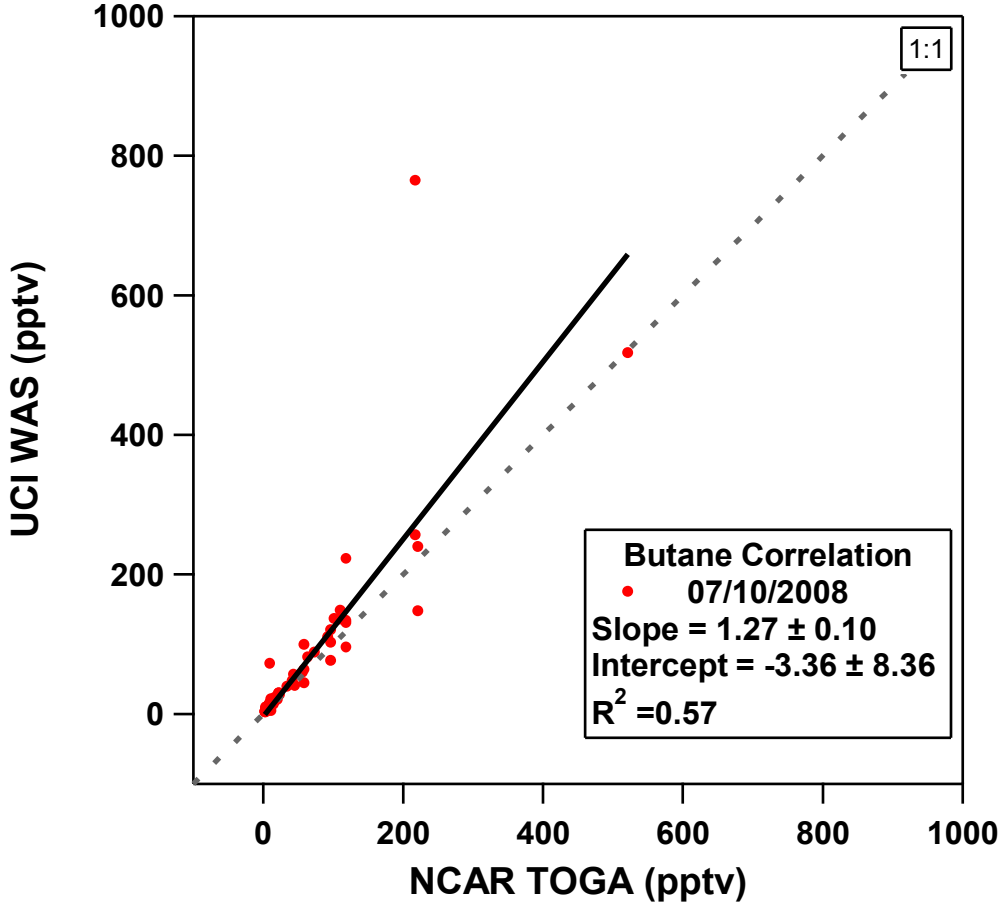

Benzene Correlation
07/10/2008
Slope = 0.59 ± 0.04
Intercept = 1.57 ± 1.29
R2 =0.60
1:1
UCI WAS (pptv)
NCAR PT-RMS (pptv)
0
20
40
60
80
100
120
140

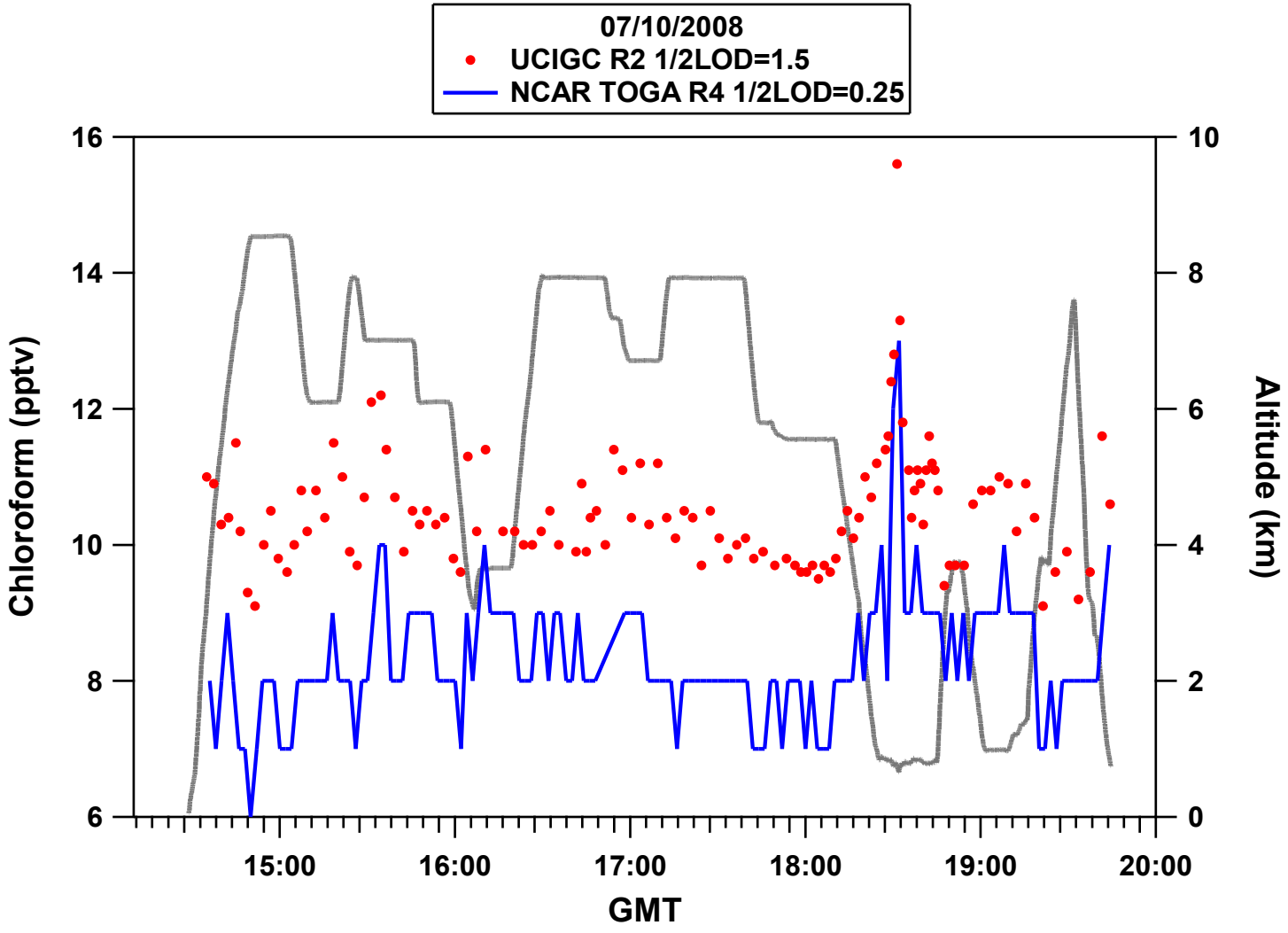

1:1
Benzene Correlation
07/10/2008
R2 =0.28
NCAR PT-RMS (pptv)
NCAR TOGA (pptv)
0
20
40
60
80
100
120
140

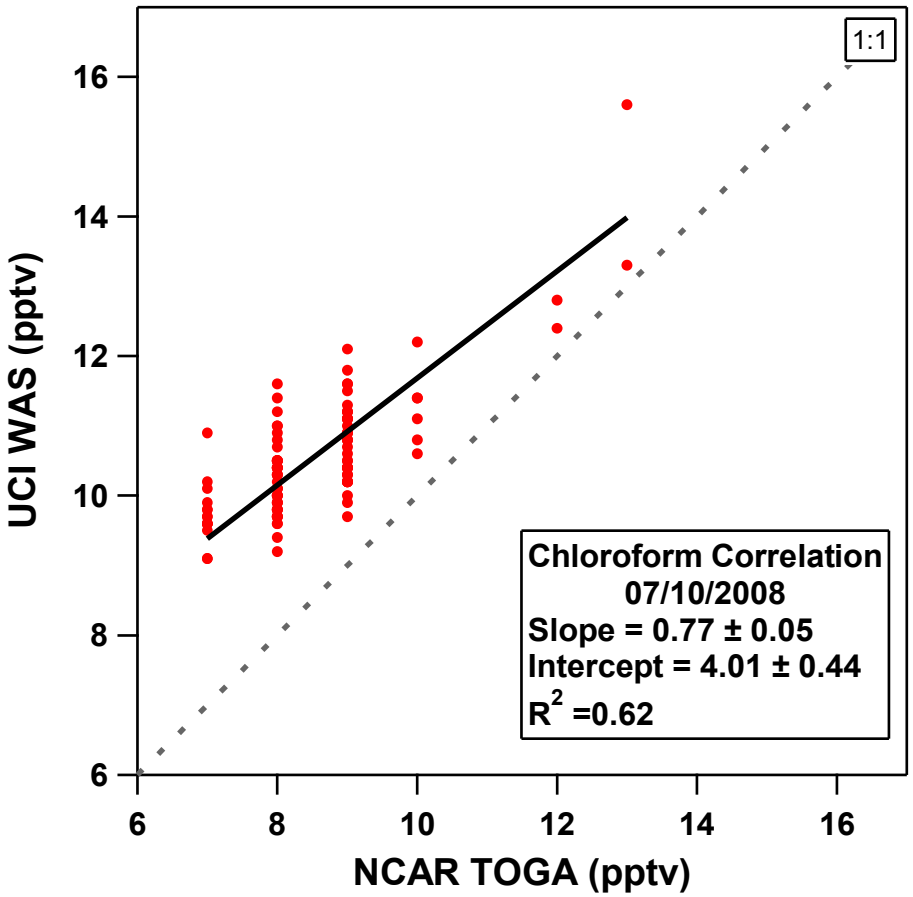

07/10/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.25
Bromomethane (pptv)
Altitude (km)
GMT
13
12
11
10
9
8
7
10
8
6
4
2
0
15:00
16:00
17:00
18:00
19:00
20:00

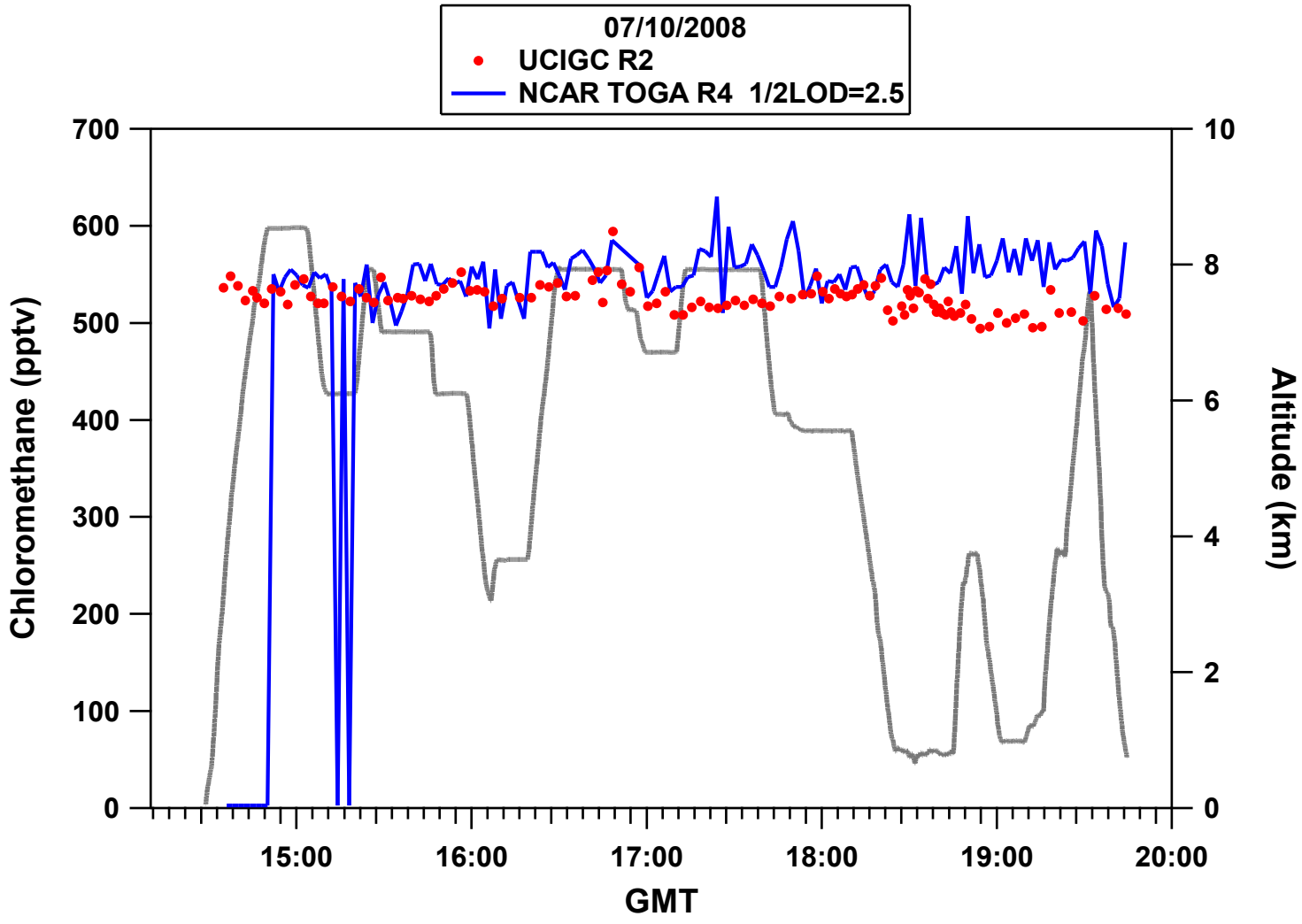

Bromomethane Correlation
07/10/2008
R2 =0.01
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
7
8
9
10
11
12
13

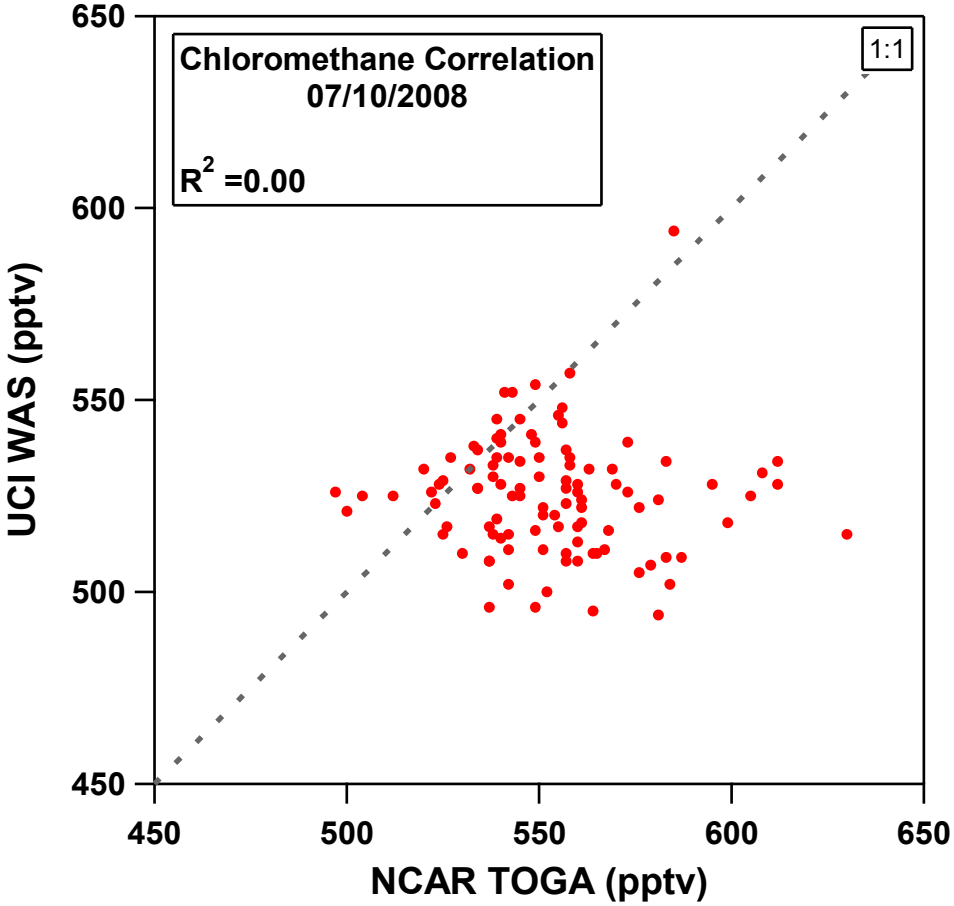

07/10/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
Butane (pptv)
Altitude (km)
GMT
800
600
400
200
0
10
8
6
4
2
0
15:00
16:00
17:00
18:00
19:00
20:00

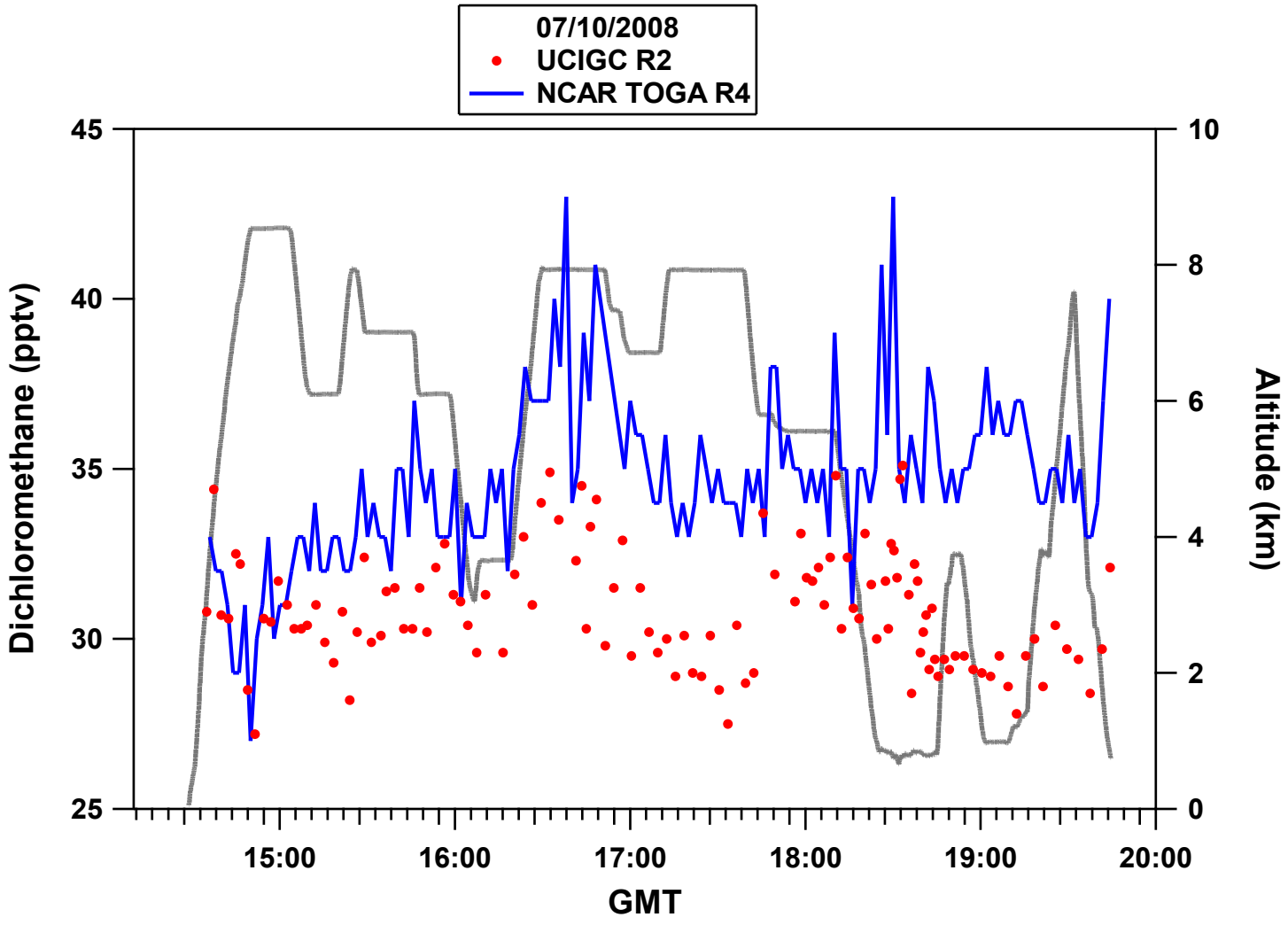

1:1
Butane Correlation
07/10/2008
Slope = 1.27 ± 0.10
Intercept = -3.36 ± 8.36
R2 =0.57
UCI WAS (pptv)
NCAR TOGA (pptv)
1000
800
600
400
200
0
0
200
400
600
800
1000

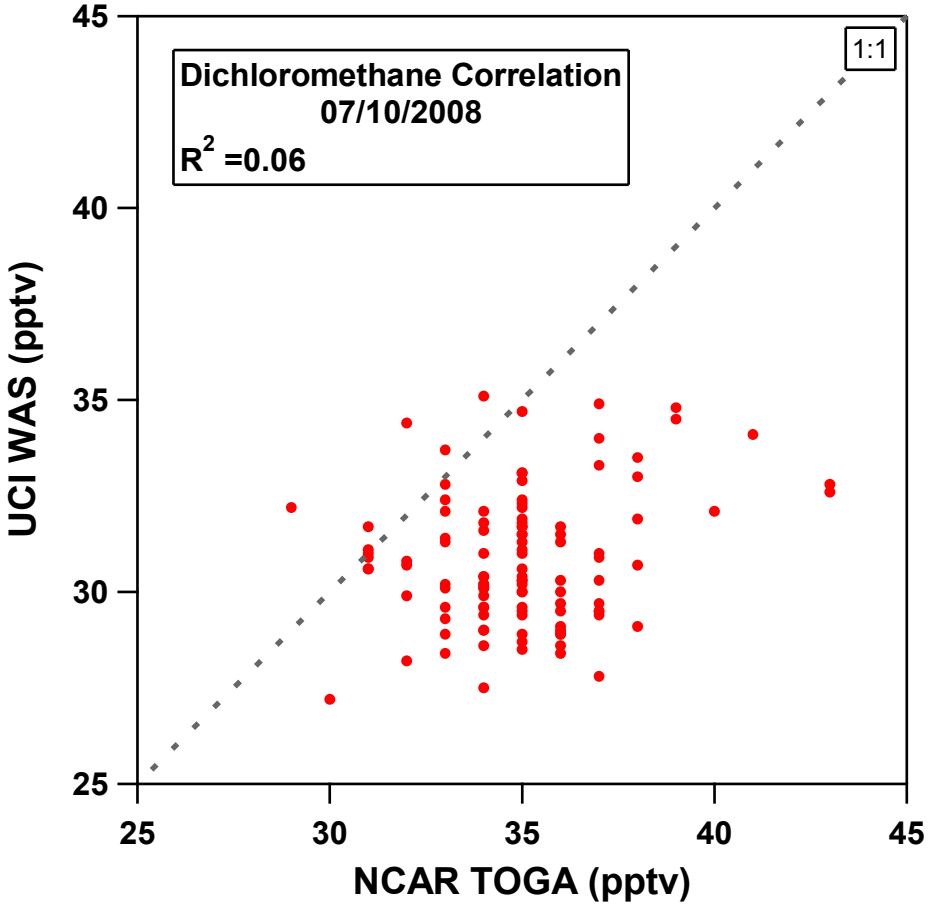

07/10/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.25
Chloroform (pptv)
Altitude (km)
GMT
16
14
12
10
8
6
10
8
6
4
2
0
15:00
16:00
17:00
18:00
19:00
20:00

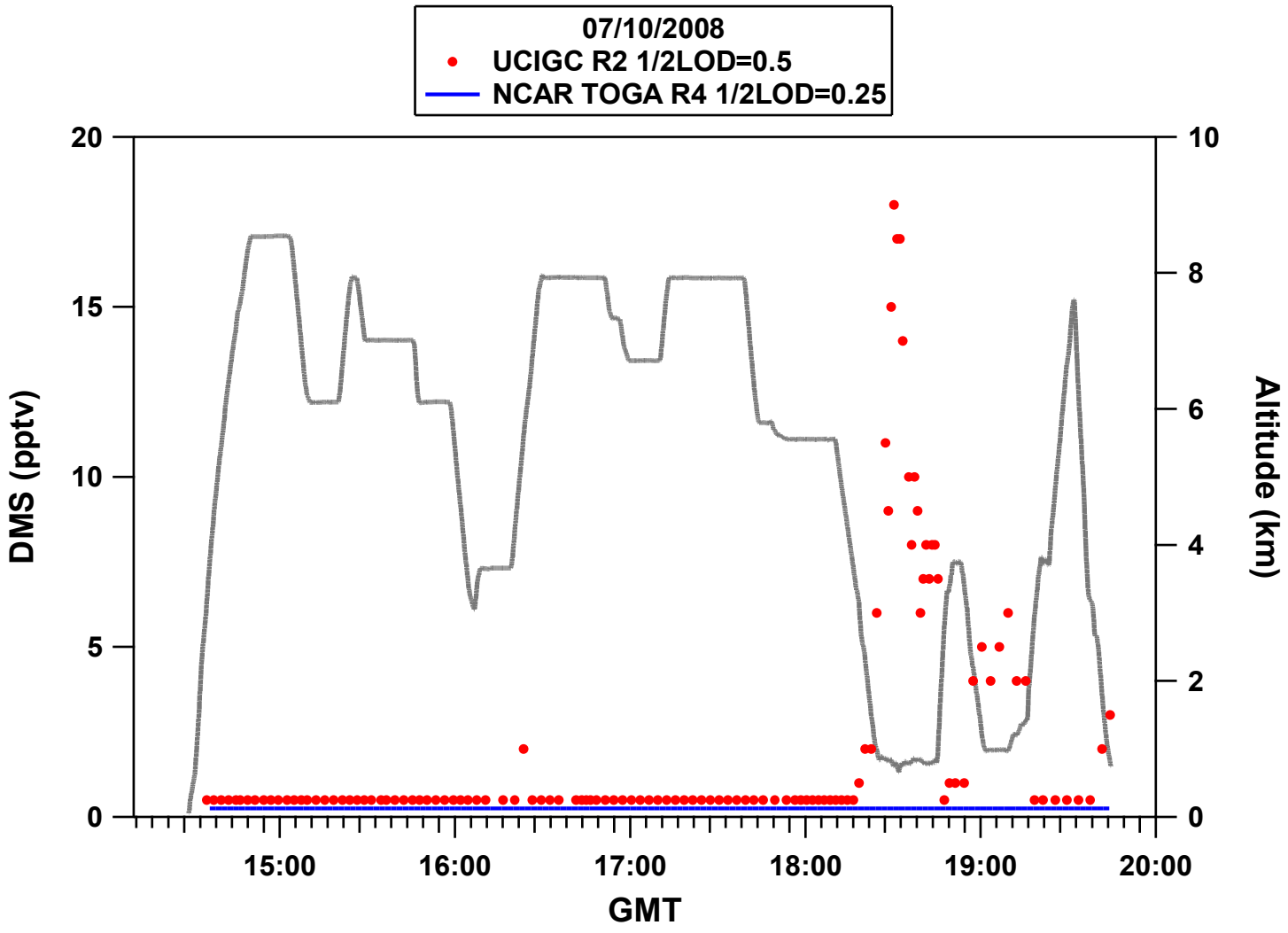

1:1
Chloroform Correlation
07/10/2008
Slope = 0.77 ± 0.05
Intercept = 4.01 ± 0.44
R2 =0.62
UCI WAS (pptv)
NCAR TOGA (pptv)
6
8
10
12
14
16

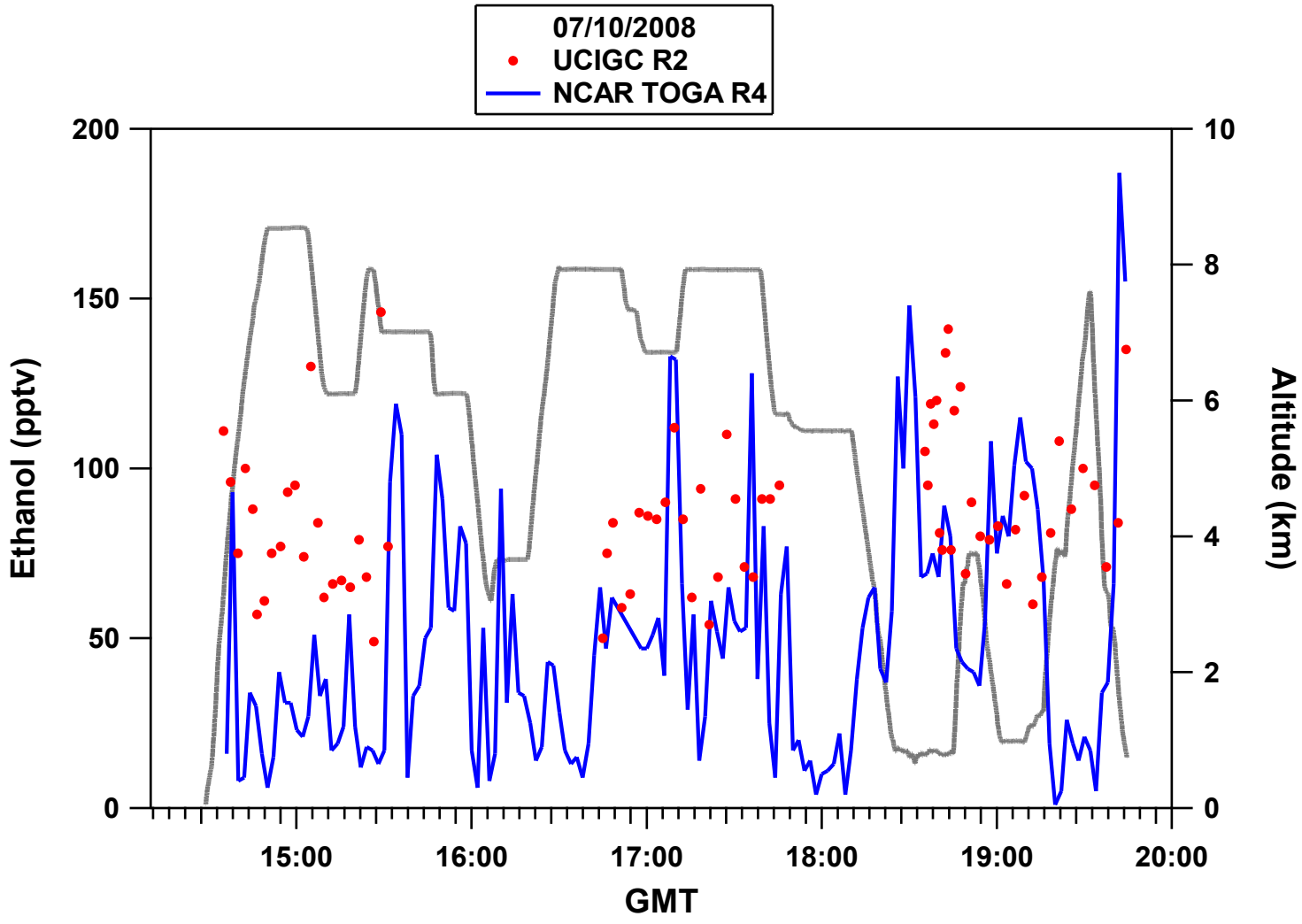

07/10/2008
UCIGC R2
NCAR TOGA R4 1/2LOD=2.5
Chloromethane (pptv)
Altitude (km)
GMT
700
600
500
400
300
200
100
0
10
8
6
4
2
0
15:00
16:00
17:00
18:00
19:00
20:00

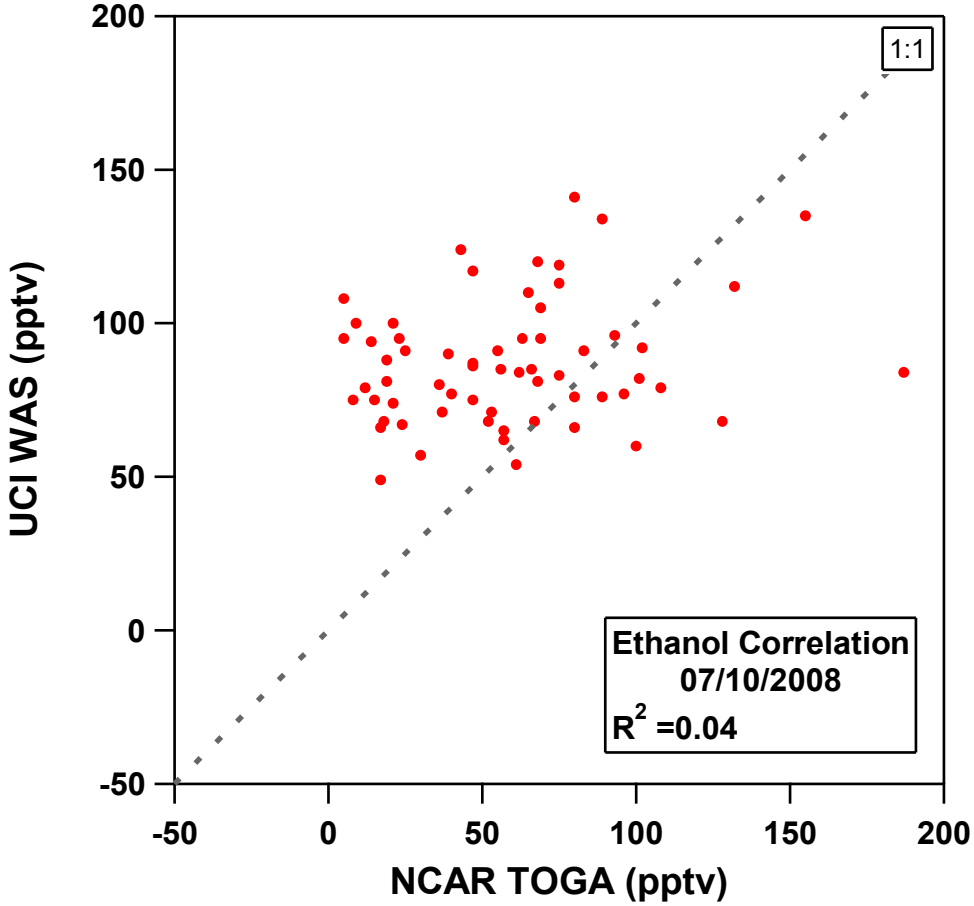

Chloromethane Correlation
07/10/2008
R2 =0.00
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
450
500
550
600
650

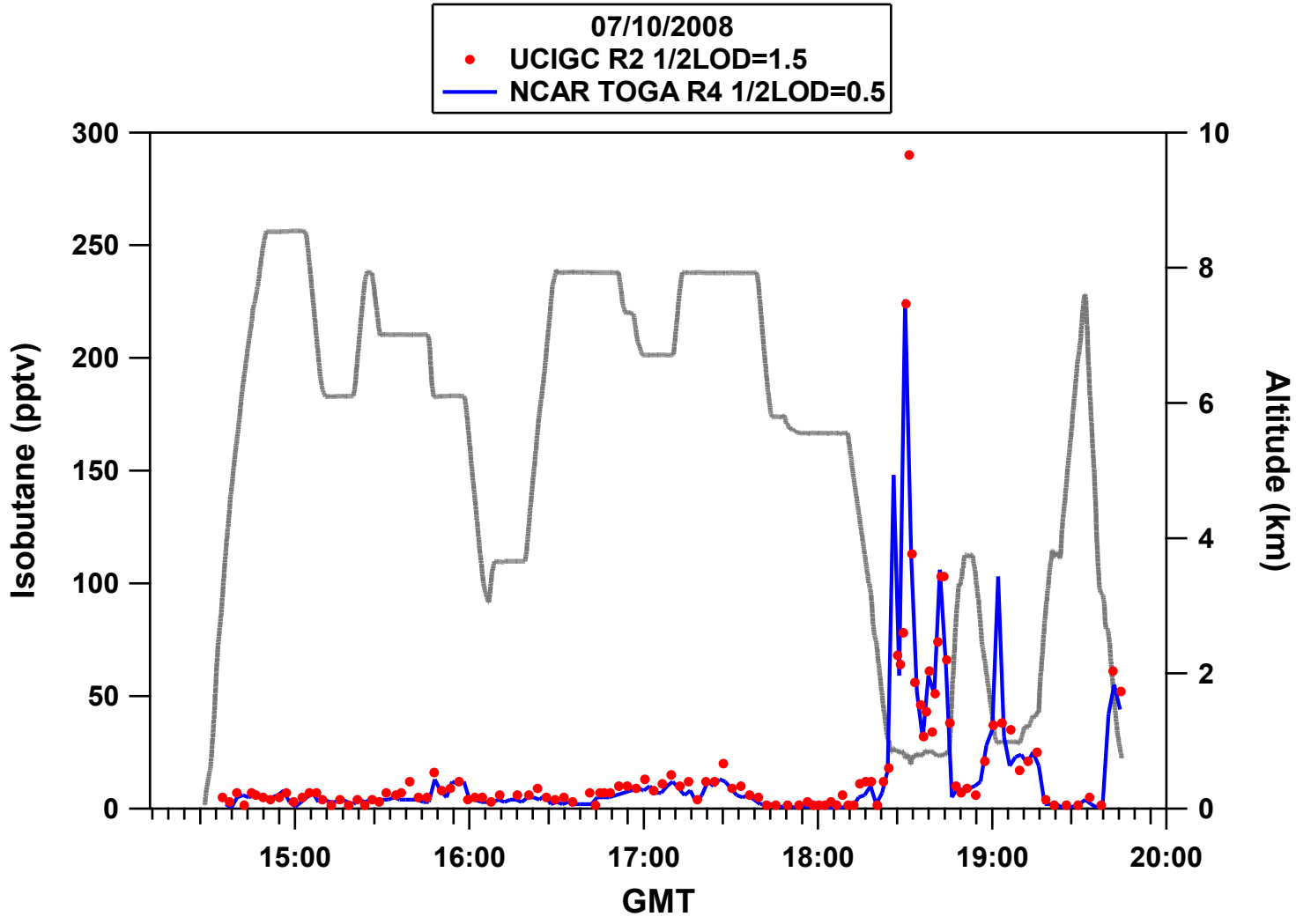

07/10/2008
UCIGC R2
NCAR TOGA R4
Dichloromethane (pptv)
Altitude (km)
GMT
45
40
35
30
25
10
8
6
4
2
0
15:00
16:00
17:00
18:00
19:00
20:00

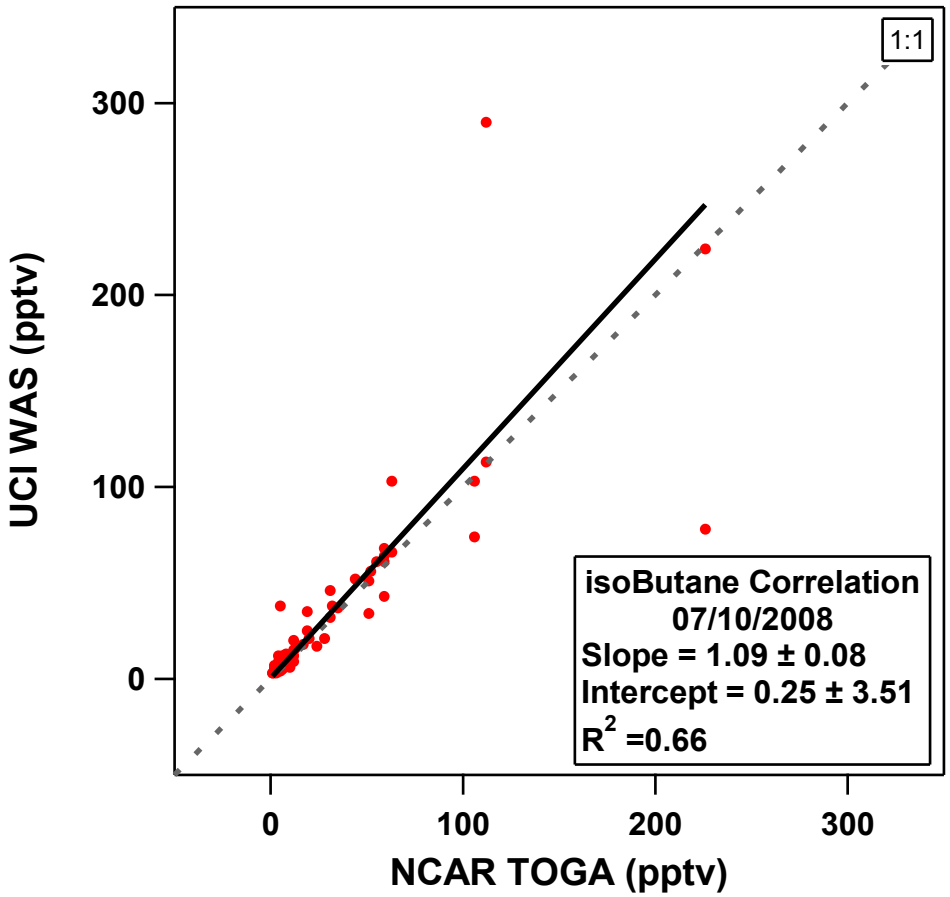

Dichloromethane Correlation
07/10/2008
R2 =0.06
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
25
30
35
40
45

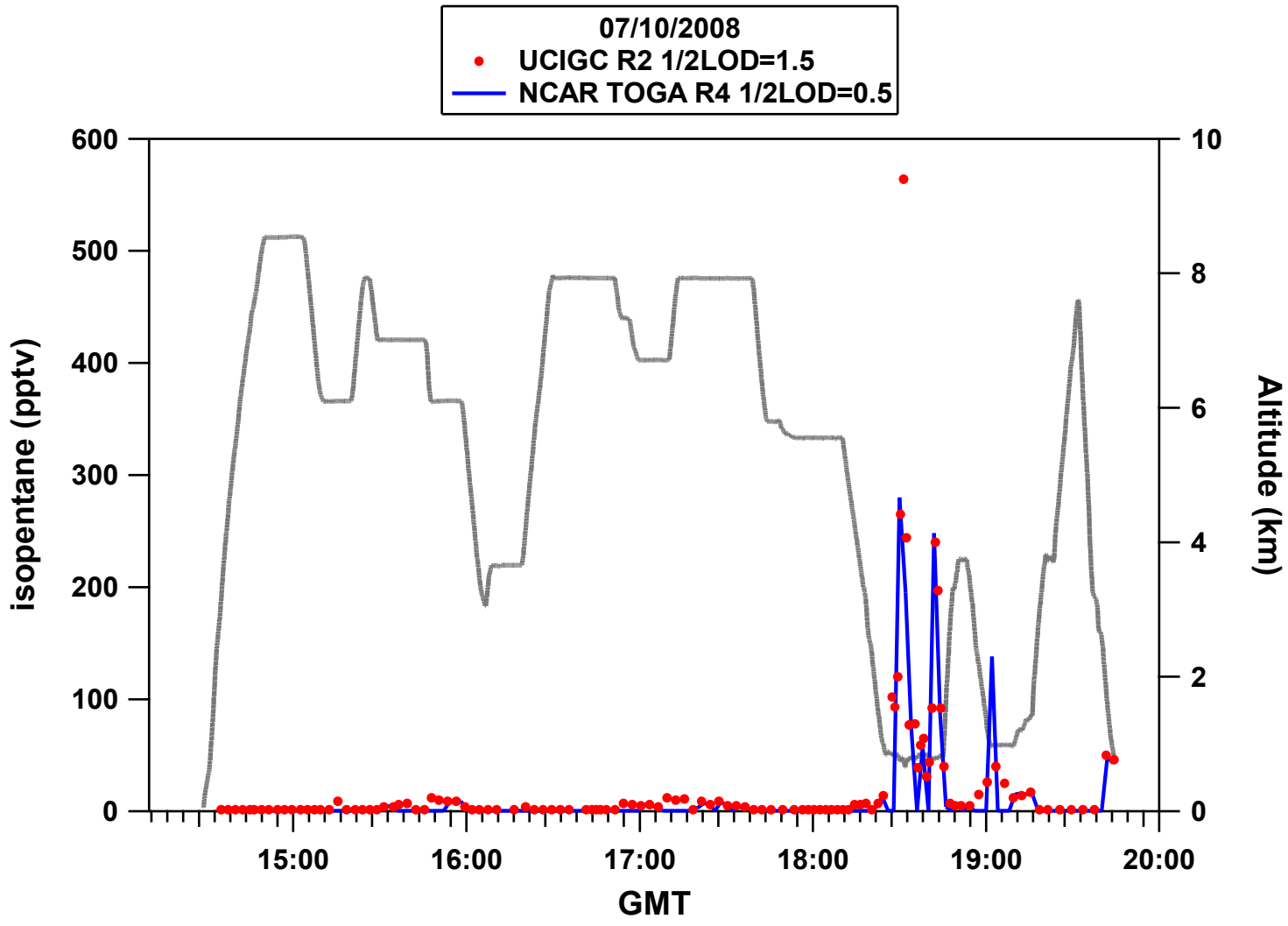

07/10/2008
UCIGC R2 1/2LOD=0.5
NCAR TOGA R4 1/2LOD=0.25
DMS (pptv)
Altitude (km)
GMT
0
5
10
15
20
0
2
4
6
8
10
15:00
16:00
17:00
18:00
19:00
20:00

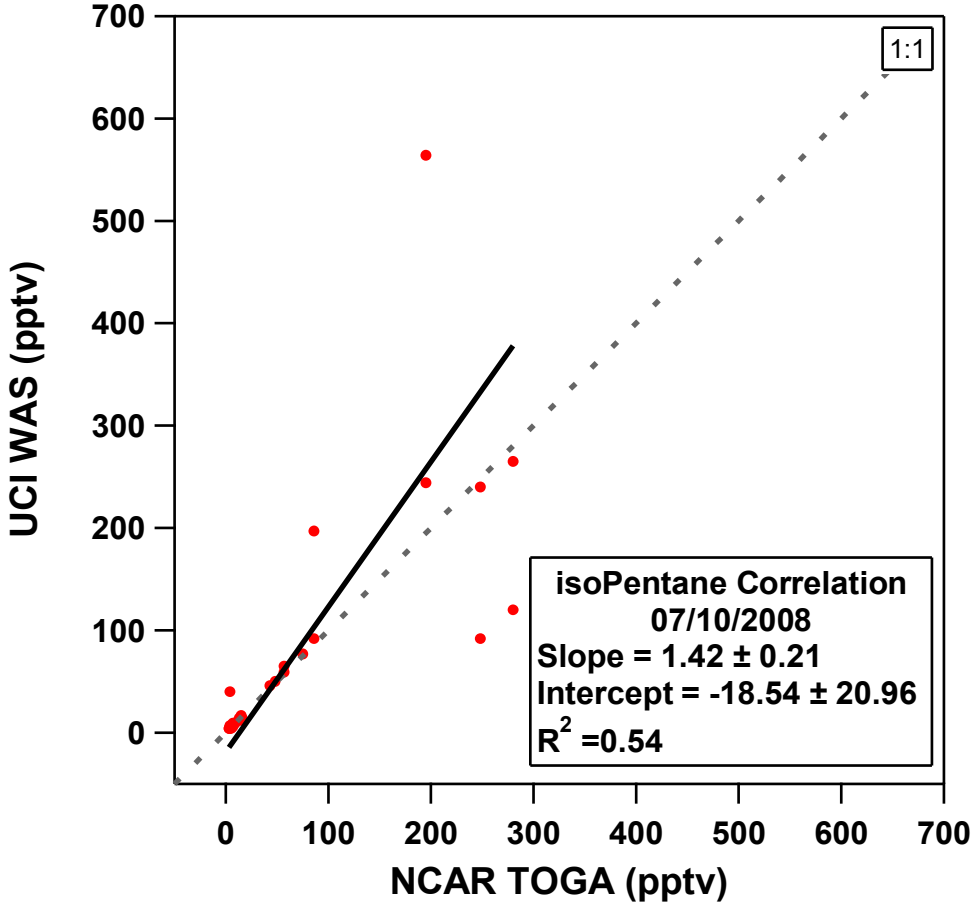

07/10/2008
UCIGC R2
NCAR TOGA R4
Ethanol (pptv)
Altitude (km)
GMT
200
150
100
50
0
10
8
6
4
2
0
15:00
16:00
17:00
18:00
19:00
20:00

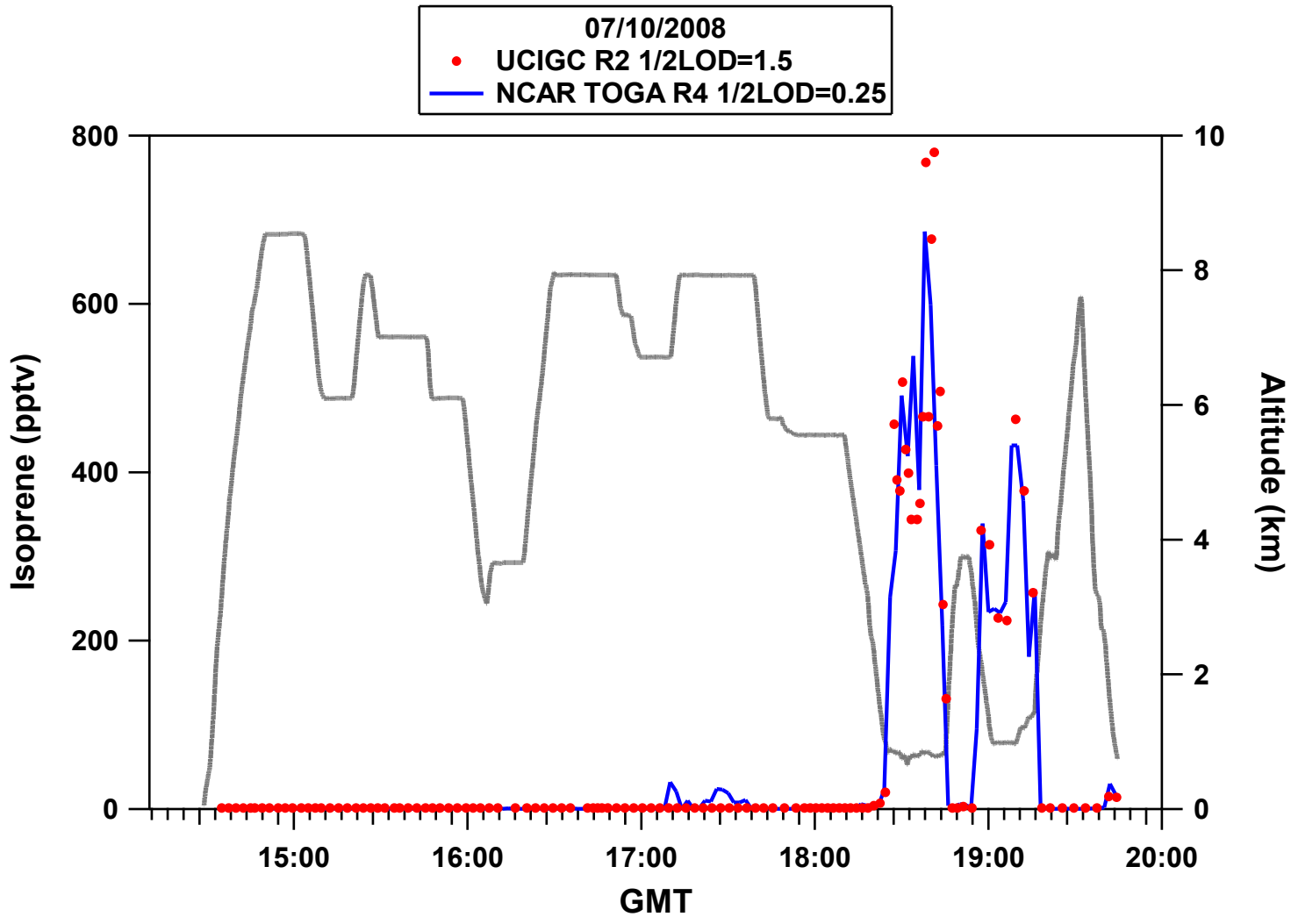

1:1
Ethanol Correlation
07/10/2008
R2 =0.04
UCI WAS (pptv)
NCAR TOGA (pptv)
200
150
100
50
0
-50
-50
0
50
100
150
200

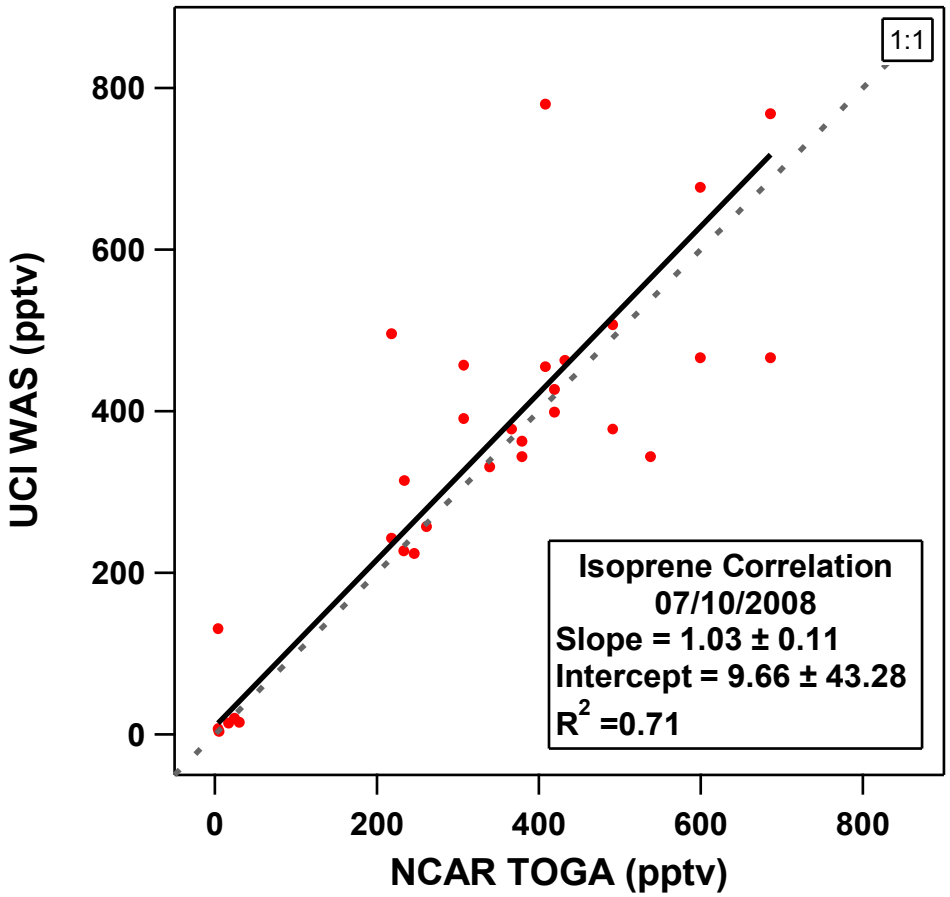

07/10/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
Isobutane (pptv)
Altitude (km)
GMT
300
250
200
150
100
50
0
10
8
6
4
2
0
15:00
16:00
17:00
18:00
19:00
20:00

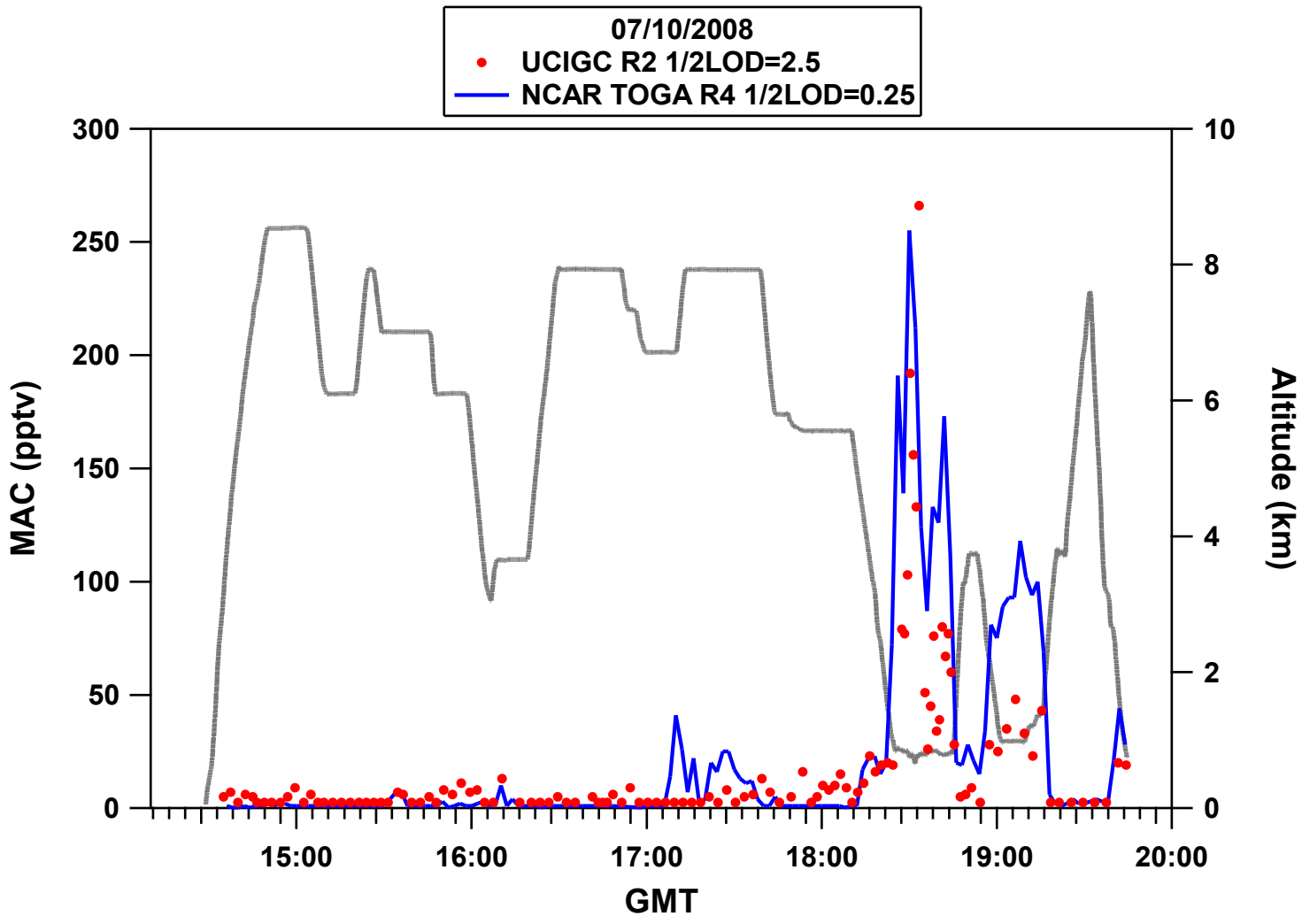

1:1
300
200
100
0
UCI WAS (pptv)
0
100
200
300
NCAR TOGA (pptv)
isoButane Correlation
07/10/2008
Slope = 1.09 ± 0.08
Intercept = 0.25 ± 3.51
R2 =0.66

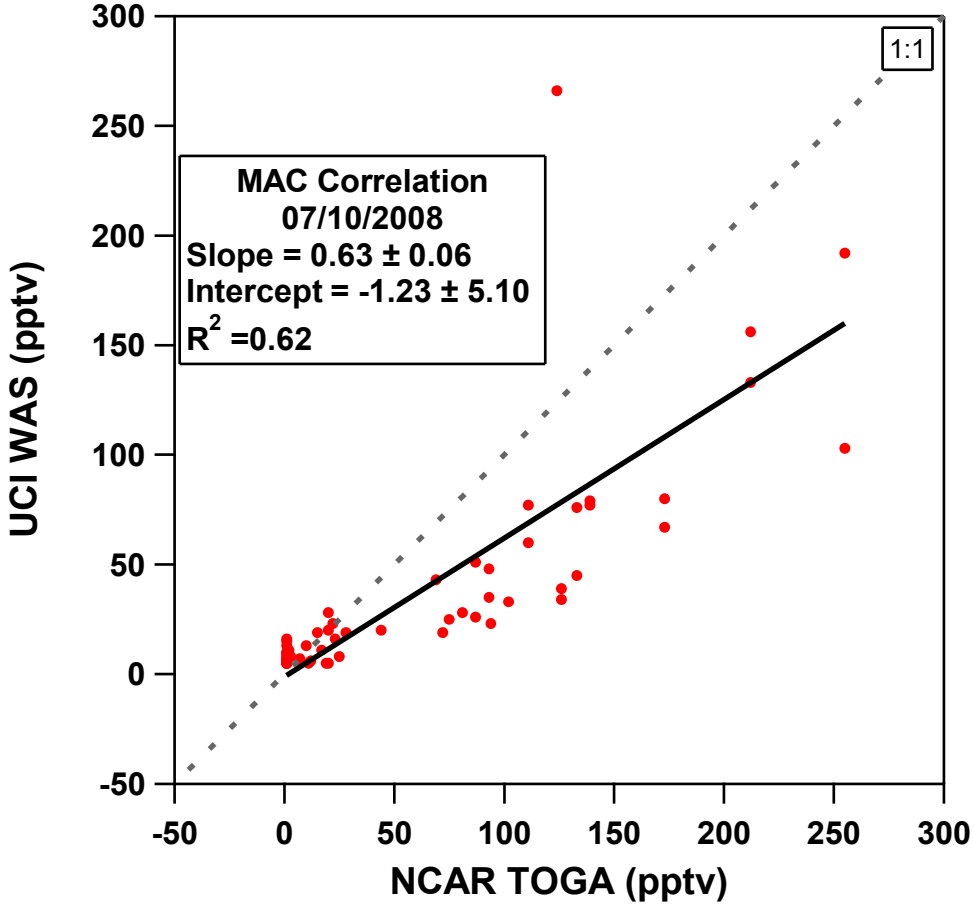

07/10/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
isopentane (pptv)
Altitude (km)
GMT
600
500
400
300
200
100
0
10
8
6
4
2
0
15:00
16:00
17:00
18:00
19:00
20:00

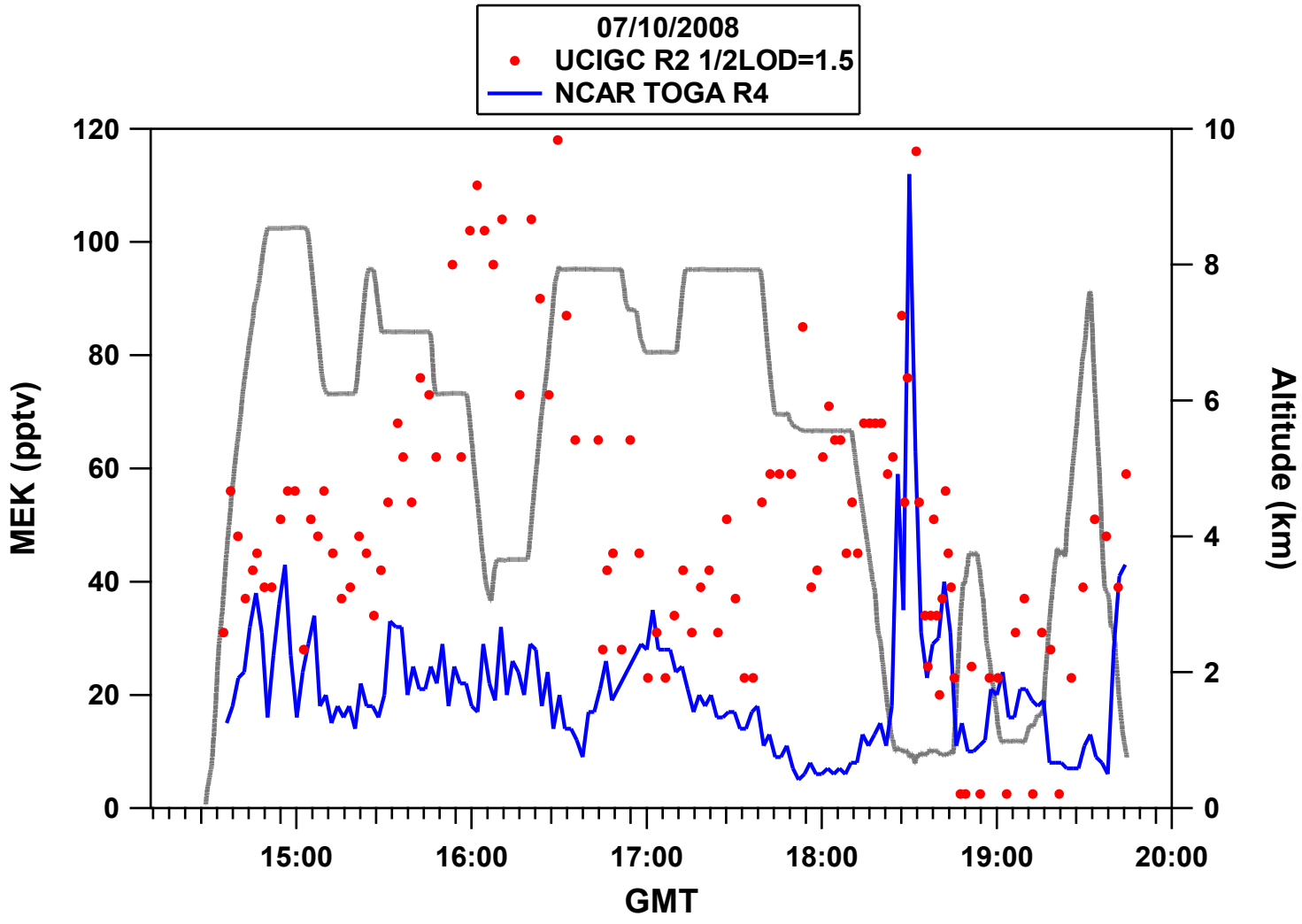

1:1
isoPentane Correlation
07/10/2008
Slope = 1.42 ± 0.21
Intercept = -18.54 ± 20.96
R2 =0.54
UCI WAS (pptv)
NCAR TOGA (pptv)
700
600
500
400
300
200
100
0
0
100
200
300
400
500
600
700

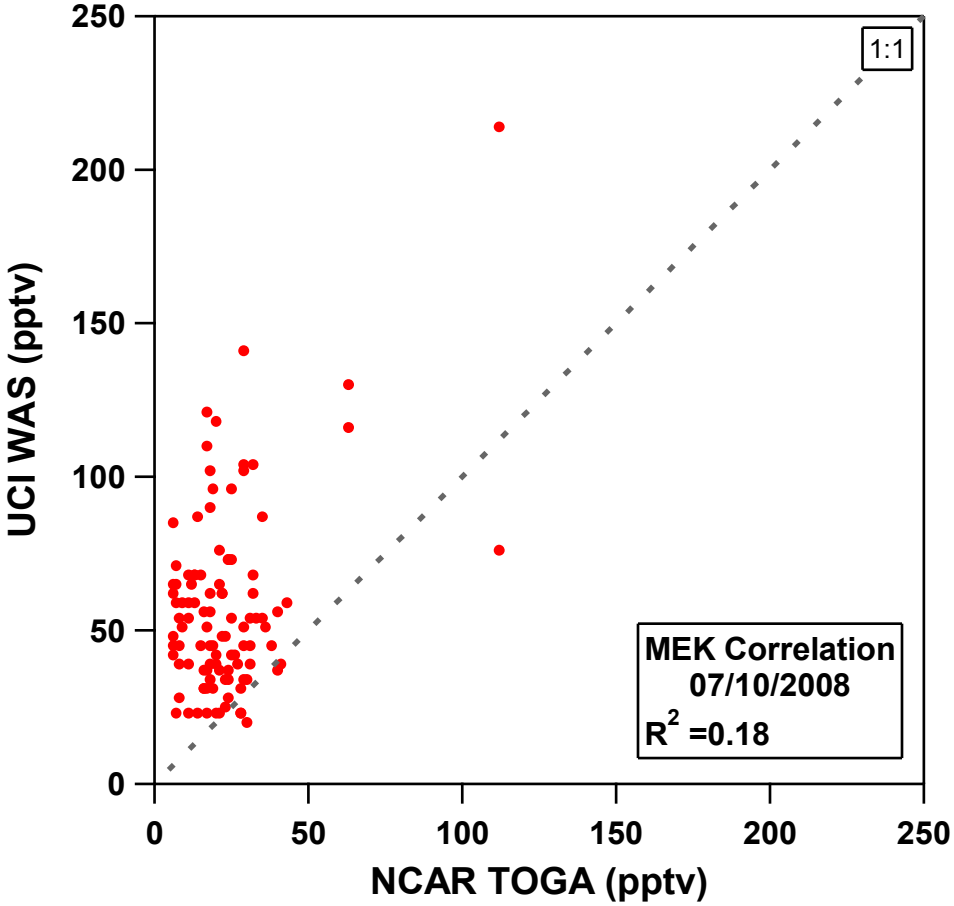

07/10/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.25
Isoprene (pptv)
Altitude (km)
GMT
800
600
400
200
0
10
8
6
4
2
0
15:00
16:00
17:00
18:00
19:00
20:00

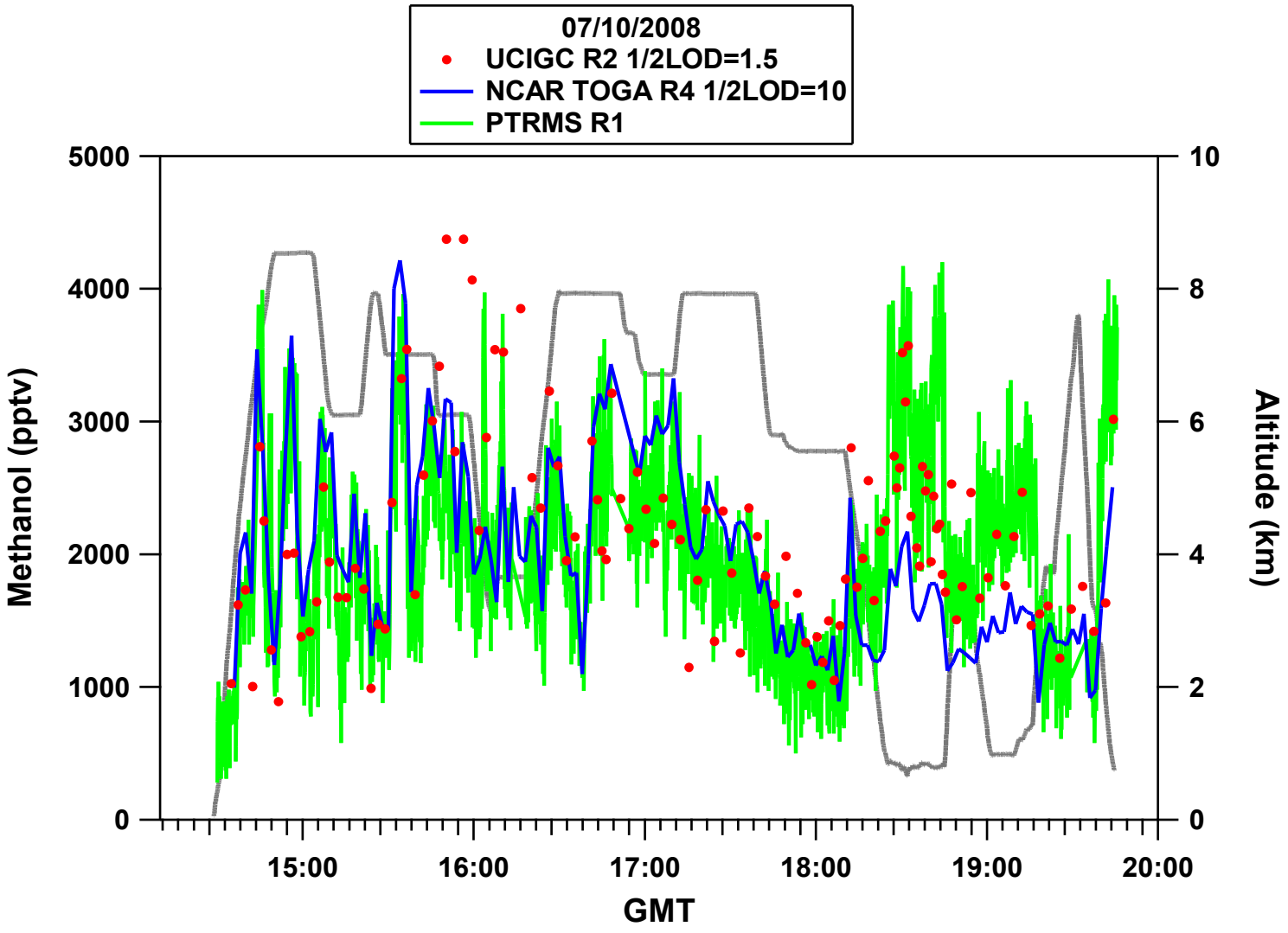

1:1
Isoprene Correlation
07/10/2008
Slope = 1.03 ± 0.11
Intercept = 9.66 ± 43.28
R2 =0.71
UCI WAS (pptv)
NCAR TOGA (pptv)
0
200
400
600
800

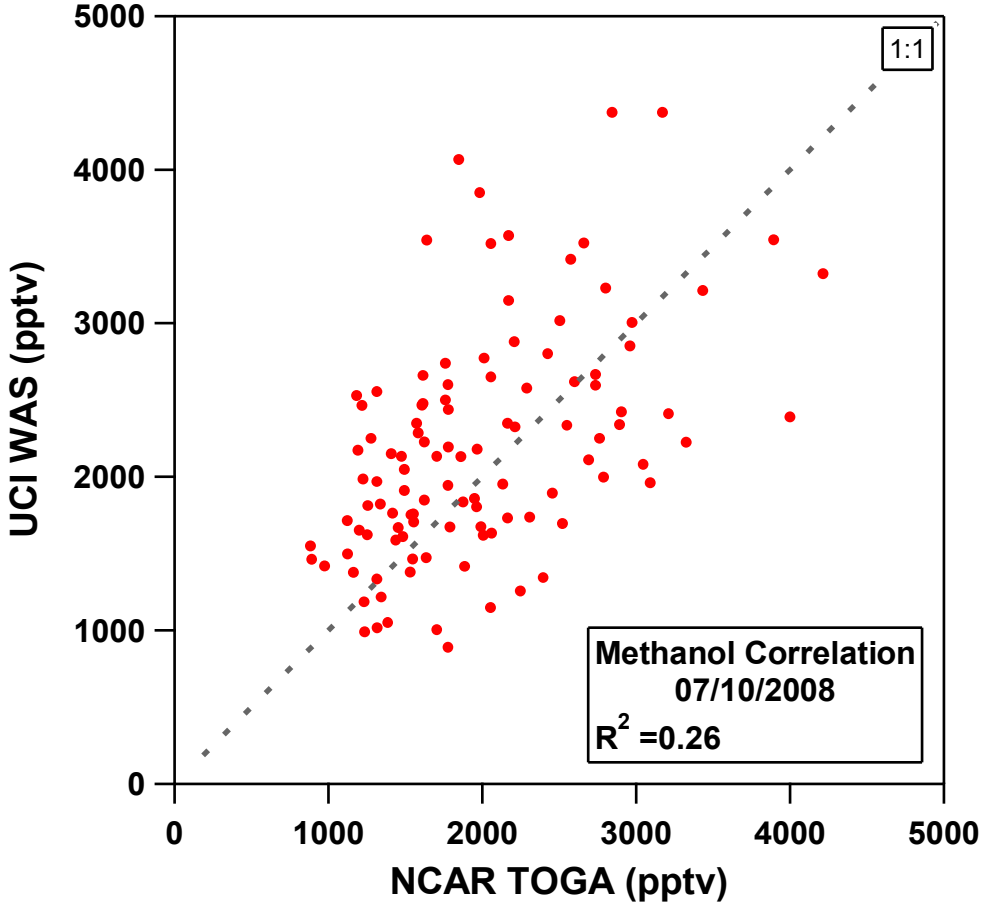

07/10/2008
UCIGC R2 1/2LOD=2.5
NCAR TOGA R4 1/2LOD=0.25
MAC (pptv)
Altitude (km)
GMT
300
250
200
150
100
50
0
10
8
6
4
2
0
15:00
16:00
17:00
18:00
19:00
20:00

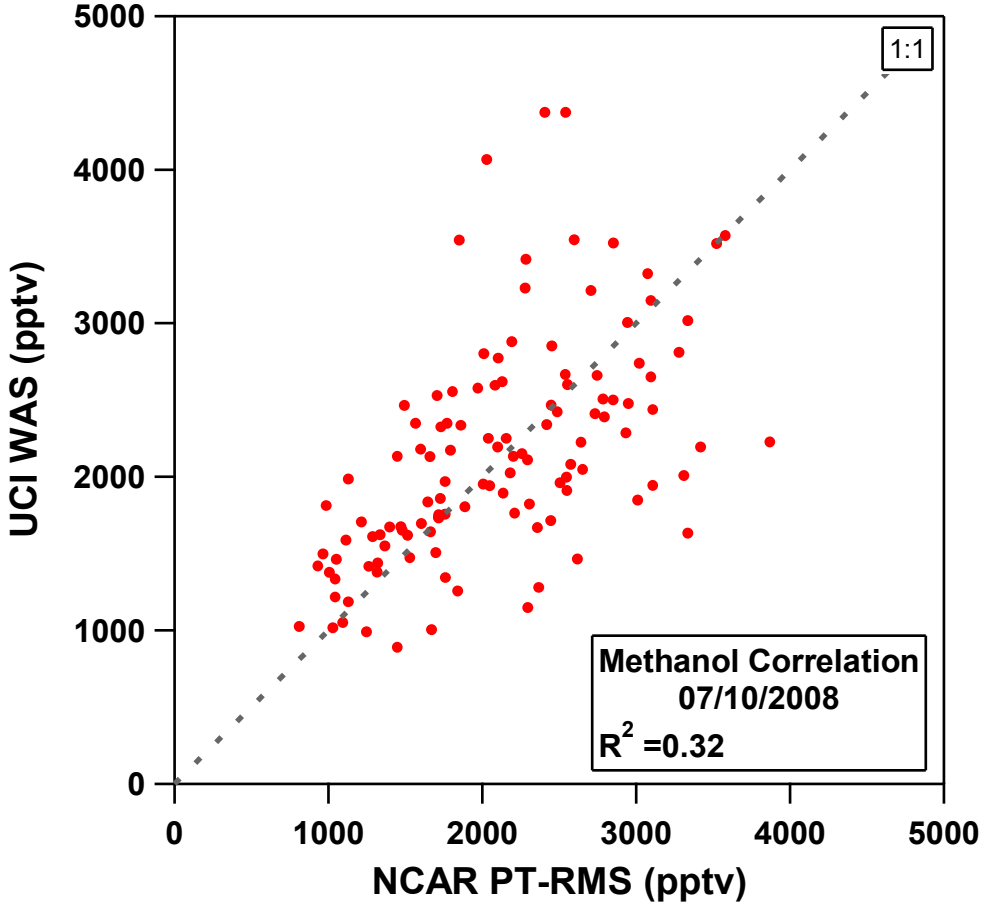

MAC Correlation
07/10/2008
Slope = 0.63 ± 0.06
Intercept = -1.23 ± 5.10
R2 =0.62
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
300
250
200
150
100
50
0
-50
-50
0
50
100
150
200
250
300

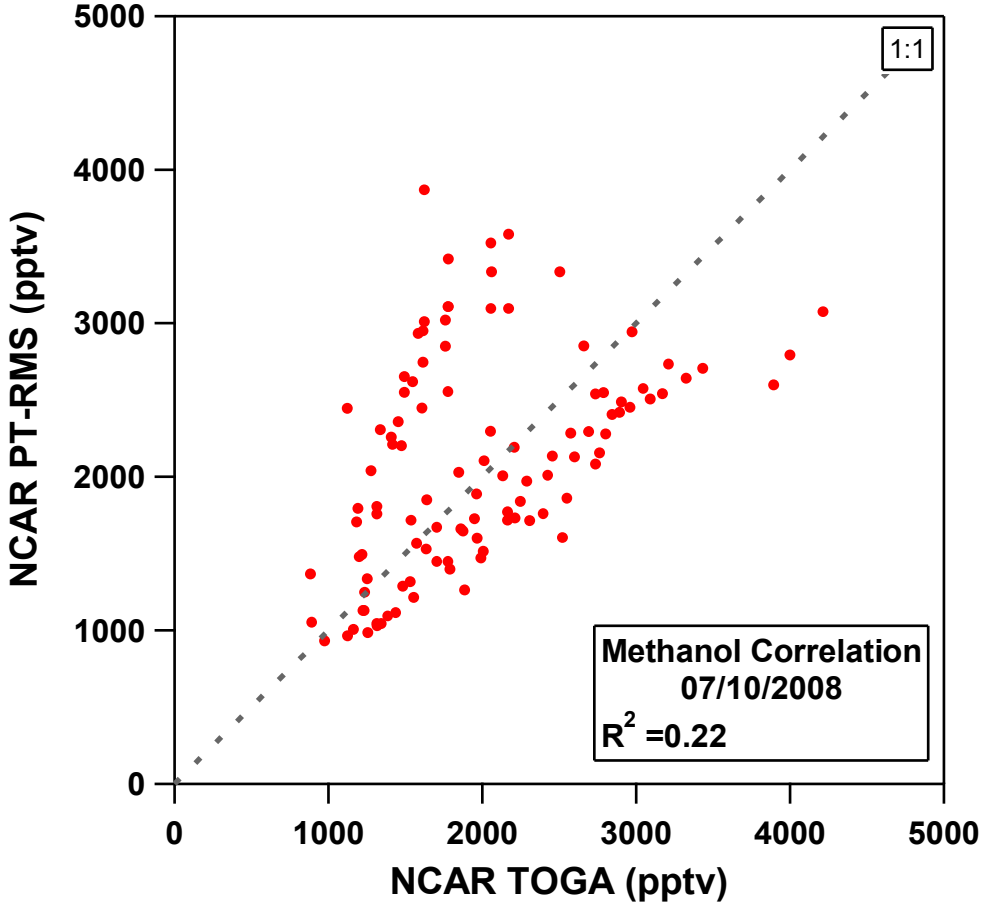

07/10/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4
MEK (pptv)
Altitude (km)
GMT
0
20
40
60
80
100
120
0
2
4
6
8
10
15:00
16:00
17:00
18:00
19:00
20:00

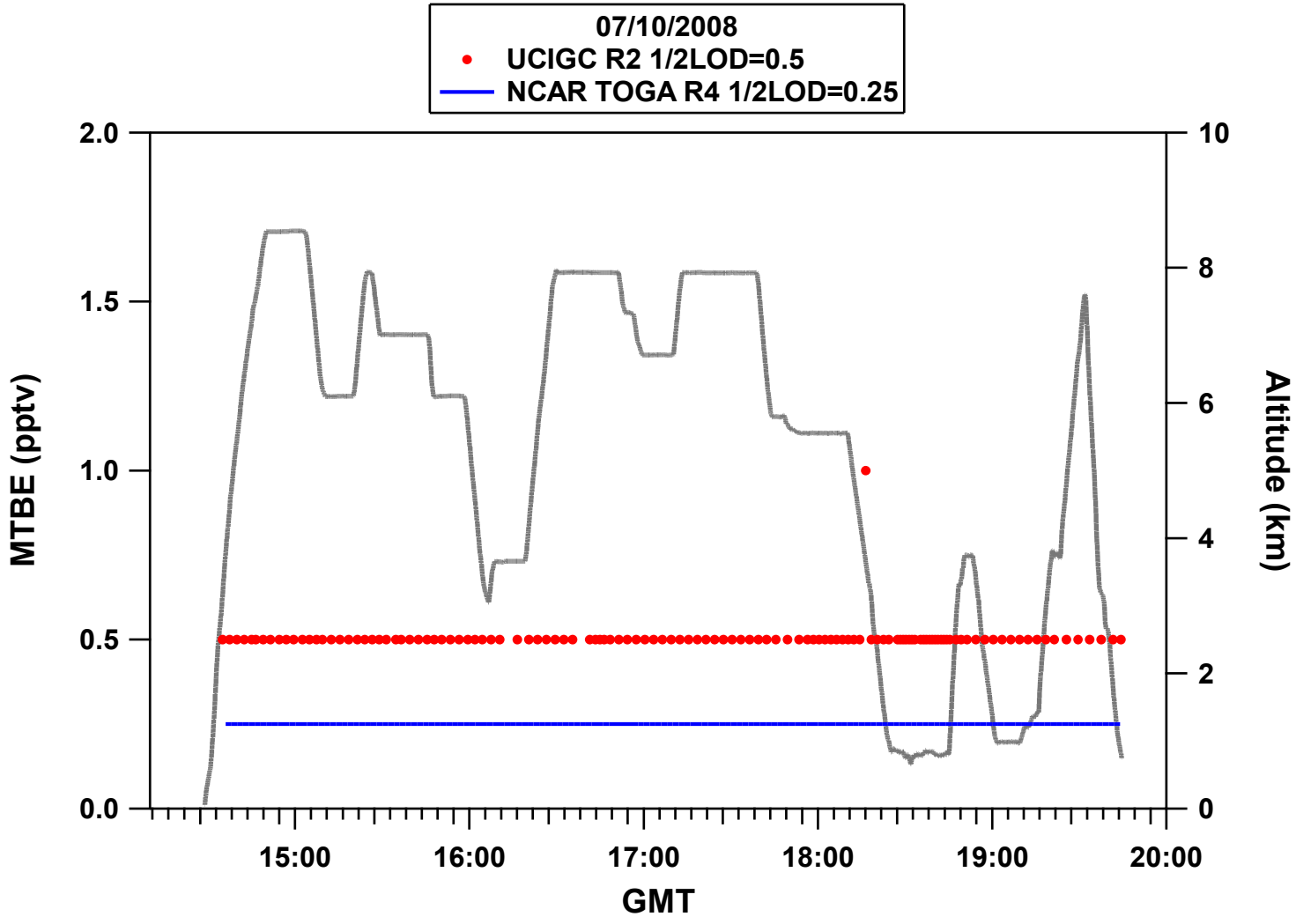

250
200
150
100
50
0
UCI WAS (pptv)
0
50
100
150
200
250
NCAR TOGA (pptv)
1:1
MEK Correlation
07/10/2008
R2 =0.18

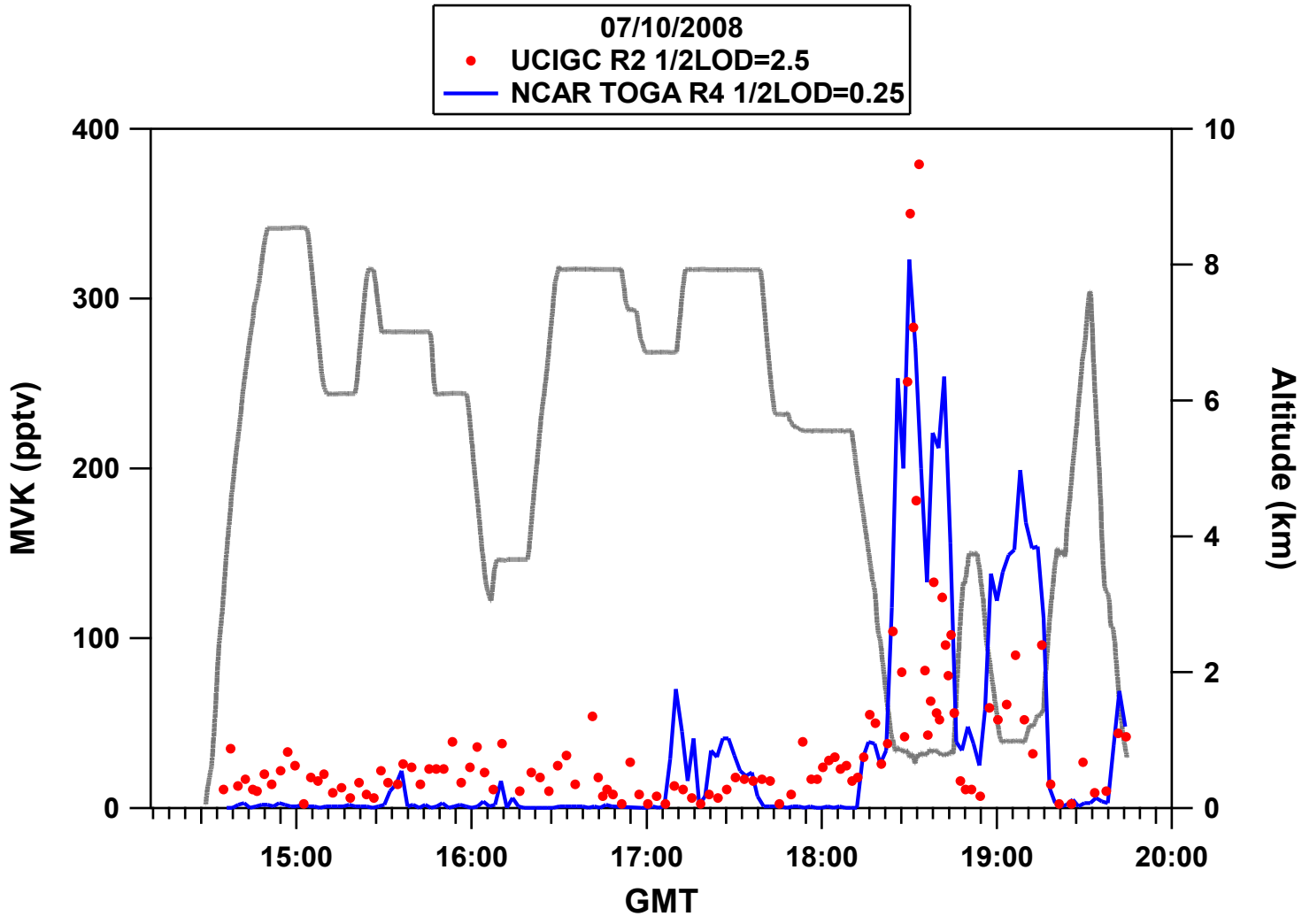

07/10/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=10
PTRMS R1
Methanol (pptv)
Altitude (km)
GMT
5000
4000
3000
2000
1000
0
10
8
6
4
2
0
15:00
16:00
17:00
18:00
19:00
20:00

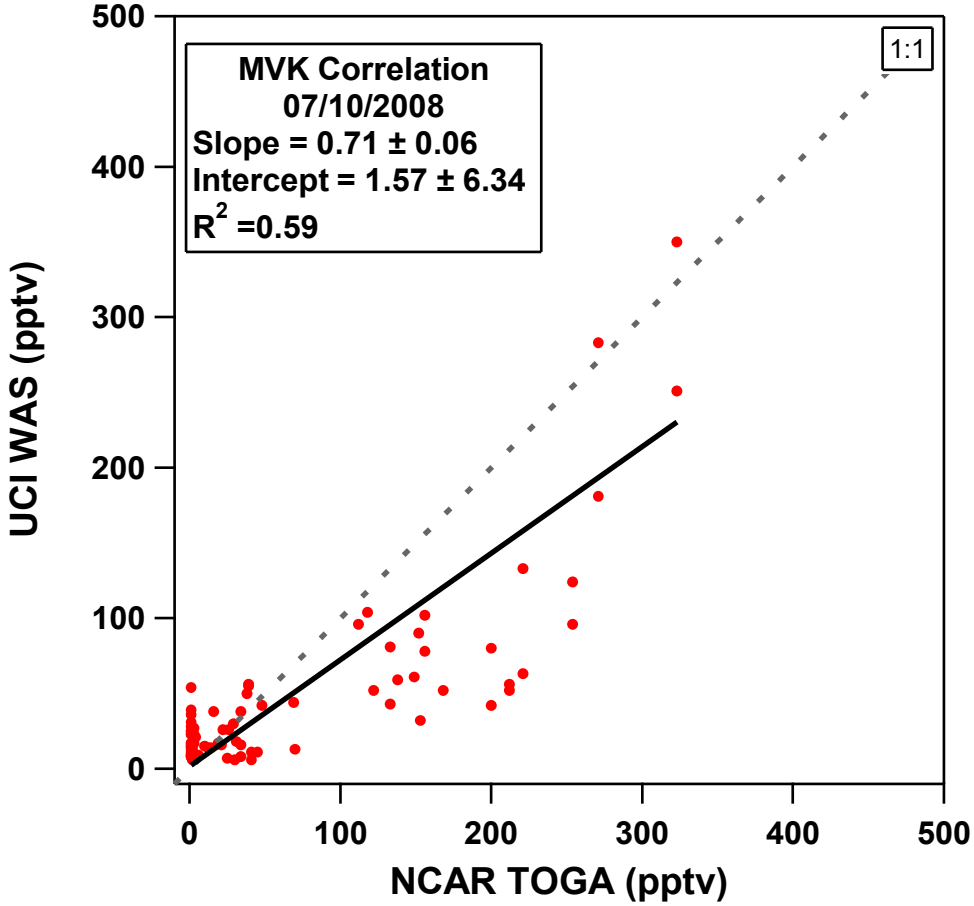

5000
4000
3000
2000
1000
0
UCI WAS (pptv)
0
1000
2000
3000
4000
5000
NCAR TOGA (pptv)
1:1
Methanol Correlation
07/10/2008
R2 =0.26

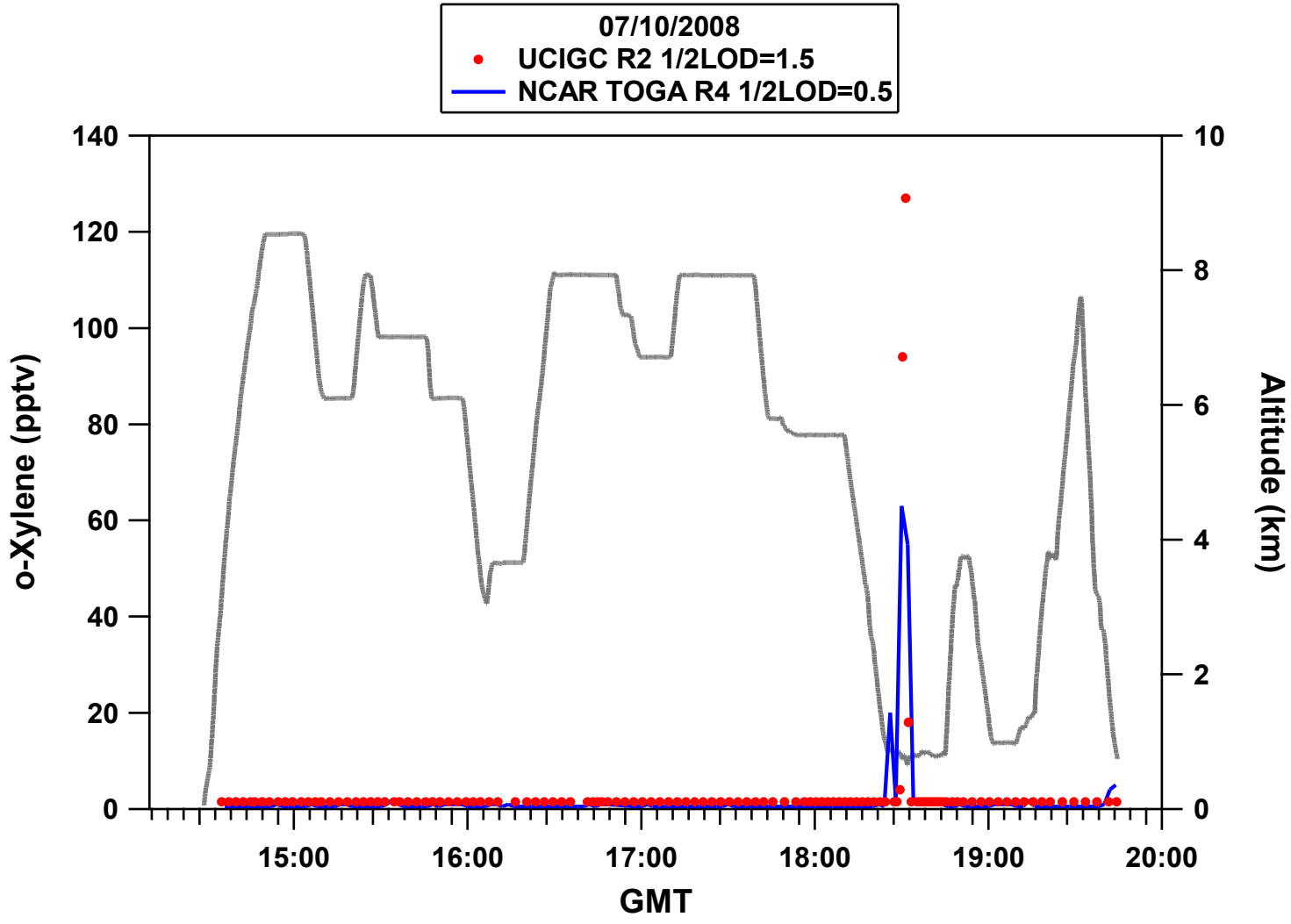

1:1
Methanol Correlation
07/10/2008
R2 =0.32
UCI WAS (pptv)
NCAR PT-RMS (pptv)
0
1000
2000
3000
4000
5000

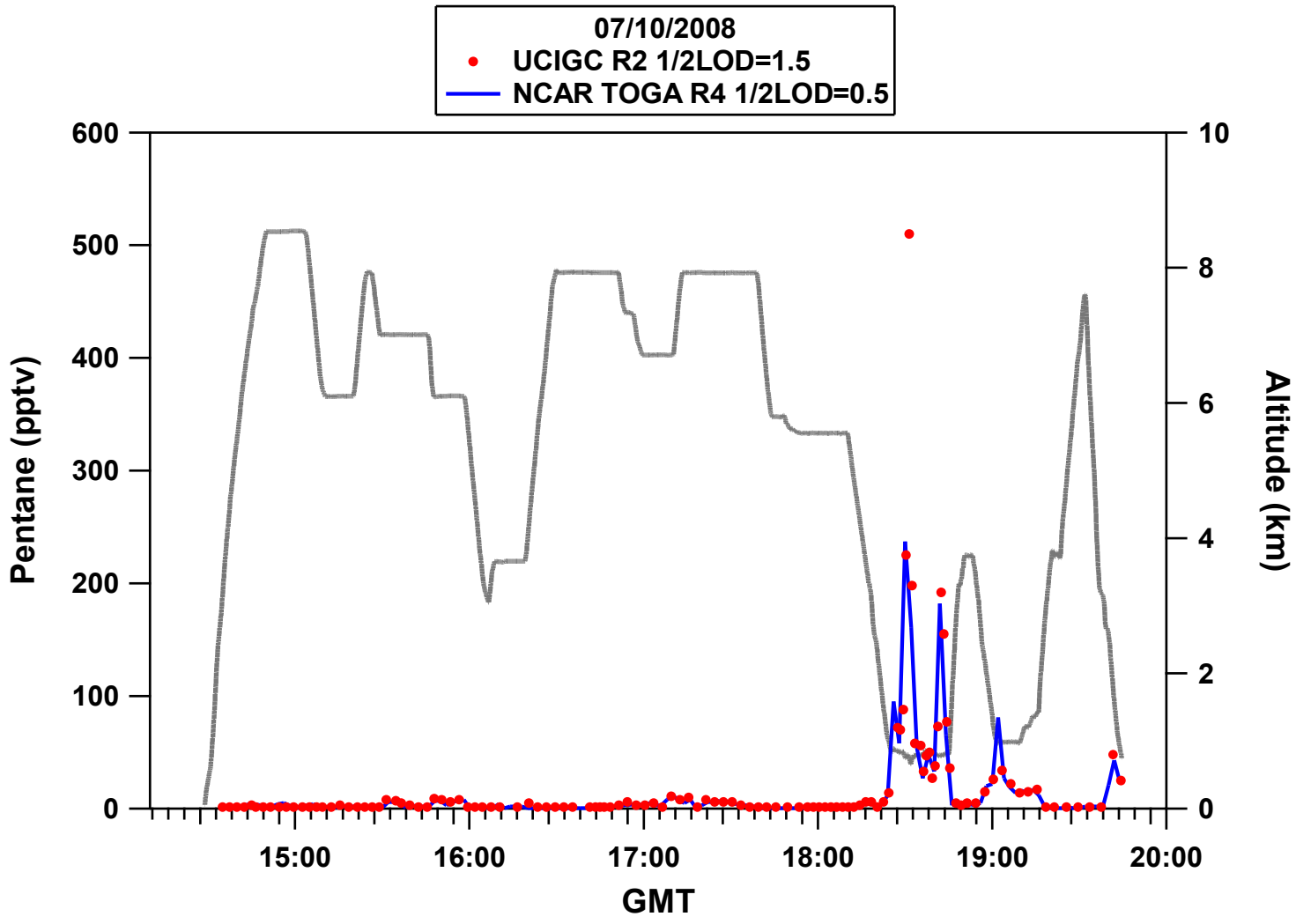

5000
4000
3000
2000
1000
0
NCAR PT-RMS (pptv)
0
1000
2000
3000
4000
5000
NCAR TOGA (pptv)
1:1
Methanol Correlation
07/10/2008
R2 =0.22

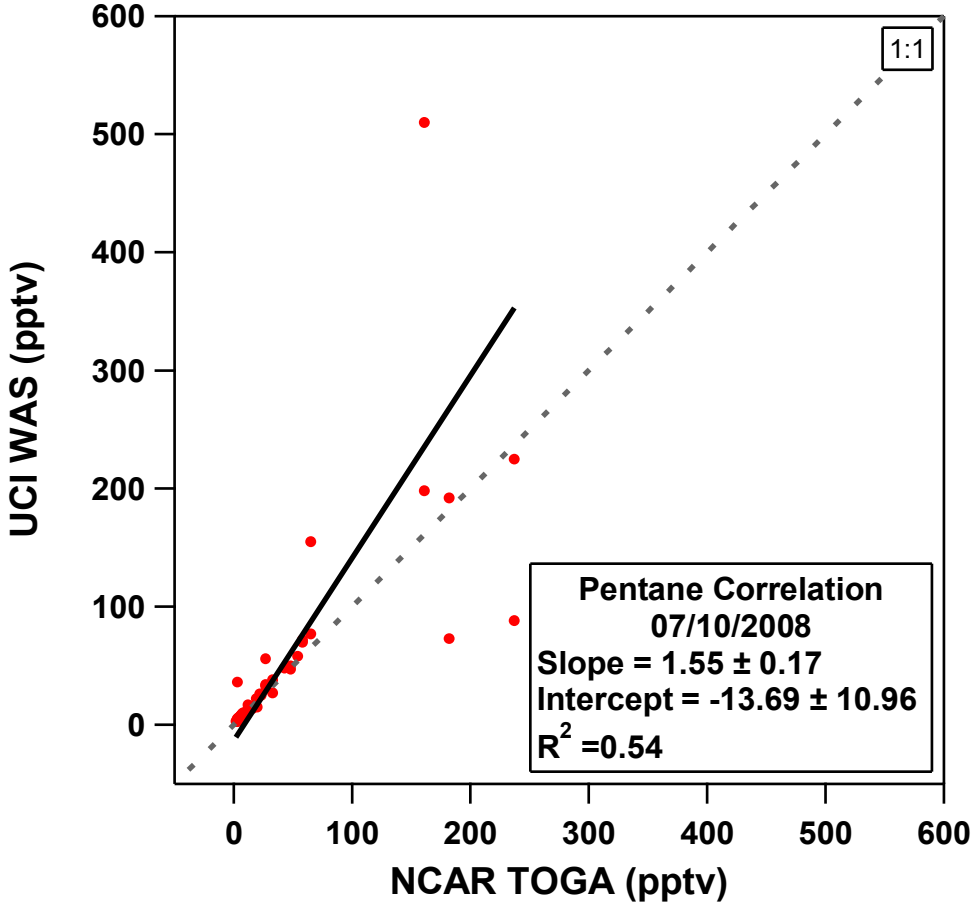

07/10/2008
UCIGC R2 1/2LOD=0.5
NCAR TOGA R4 1/2LOD=0.25
MTBE (pptv)
Altitude (km)
GMT
2.0
1.5
1.0
0.5
0.0
10
8
6
4
2
0
15:00
16:00
17:00
18:00
19:00
20:00

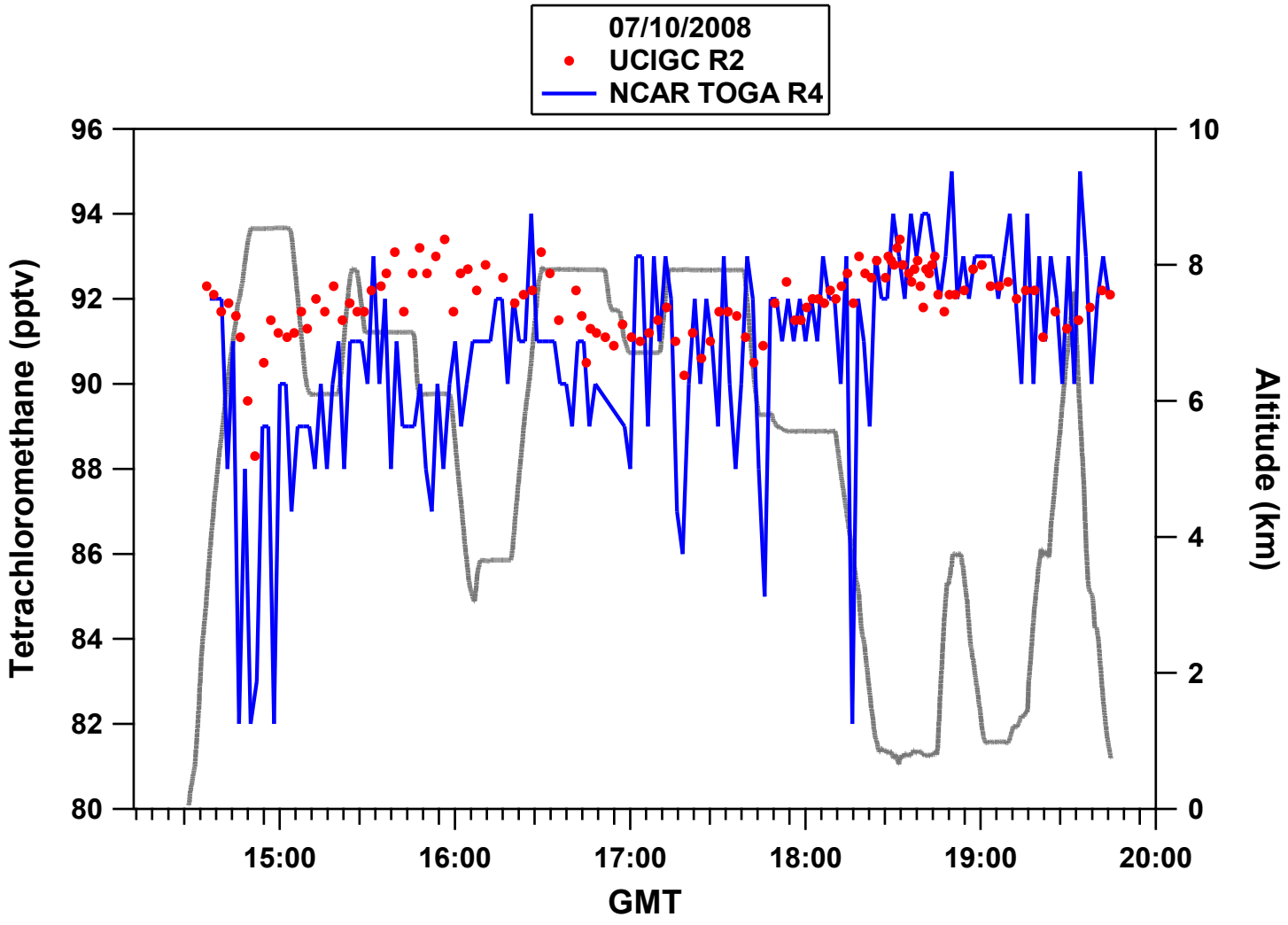

07/10/2008
UCIGC R2 1/2LOD=2.5
NCAR TOGA R4 1/2LOD=0.25
MVK (pptv)
Altitude (km)
GMT
400
300
200
100
0
10
8
6
4
2
0
15:00
16:00
17:00
18:00
19:00
20:00

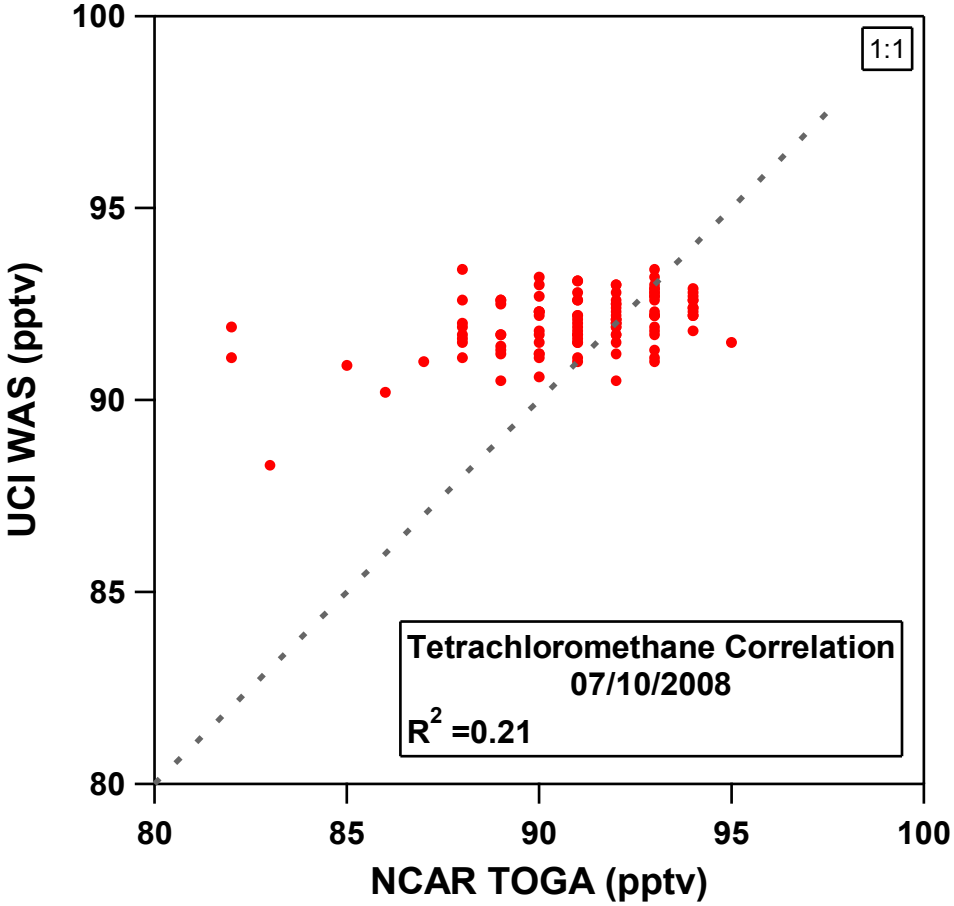

MVK Correlation
07/10/2008
Slope = 0.71 ± 0.06
Intercept = 1.57 ± 6.34
R2 =0.59
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
0
100
200
300
400
500

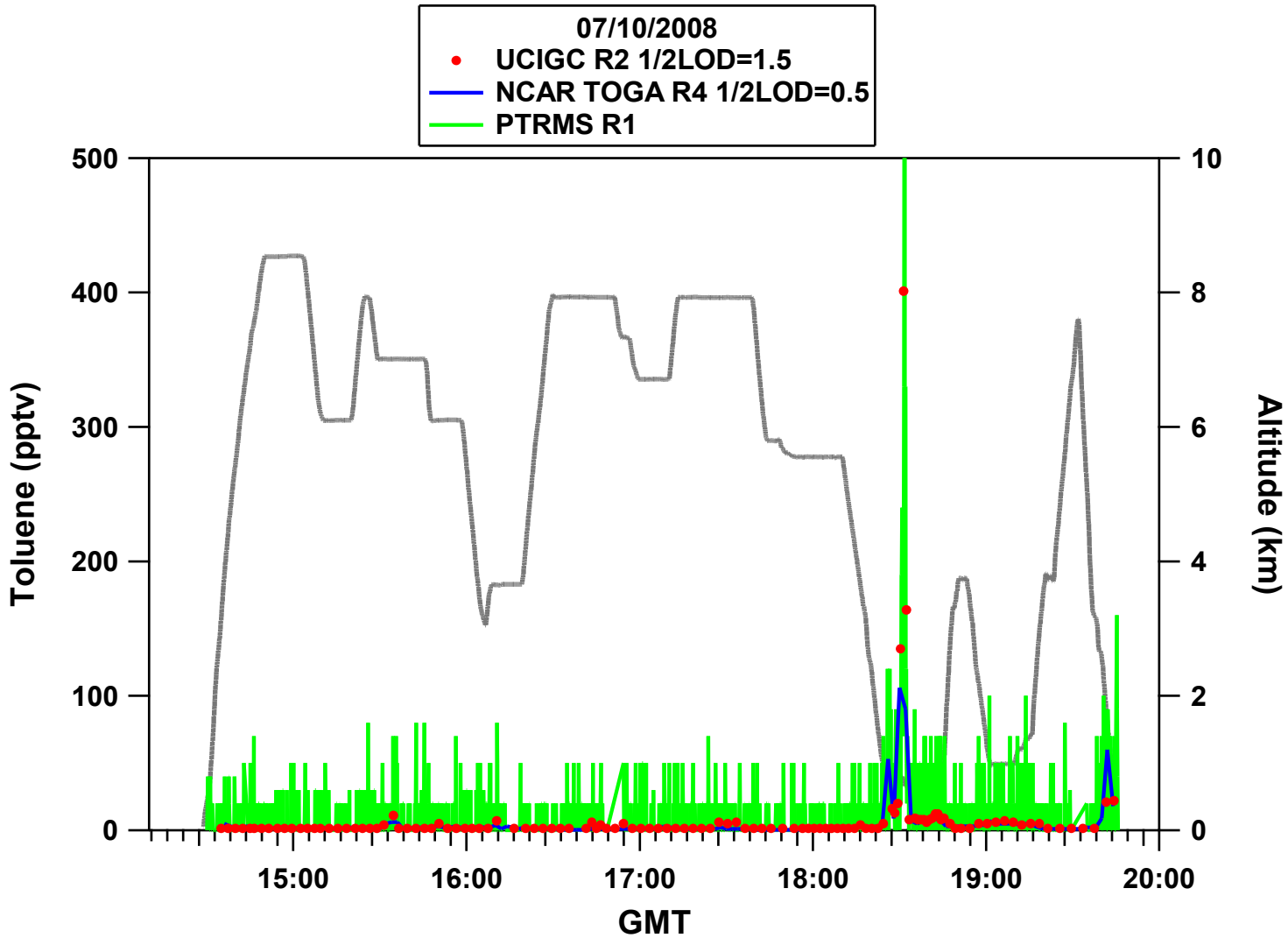

07/10/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
o-Xylene (pptv)
Altitude (km)
GMT
0
20
40
60
80
100
120
140
0
2
4
6
8
10
15:00
16:00
17:00
18:00
19:00
20:00

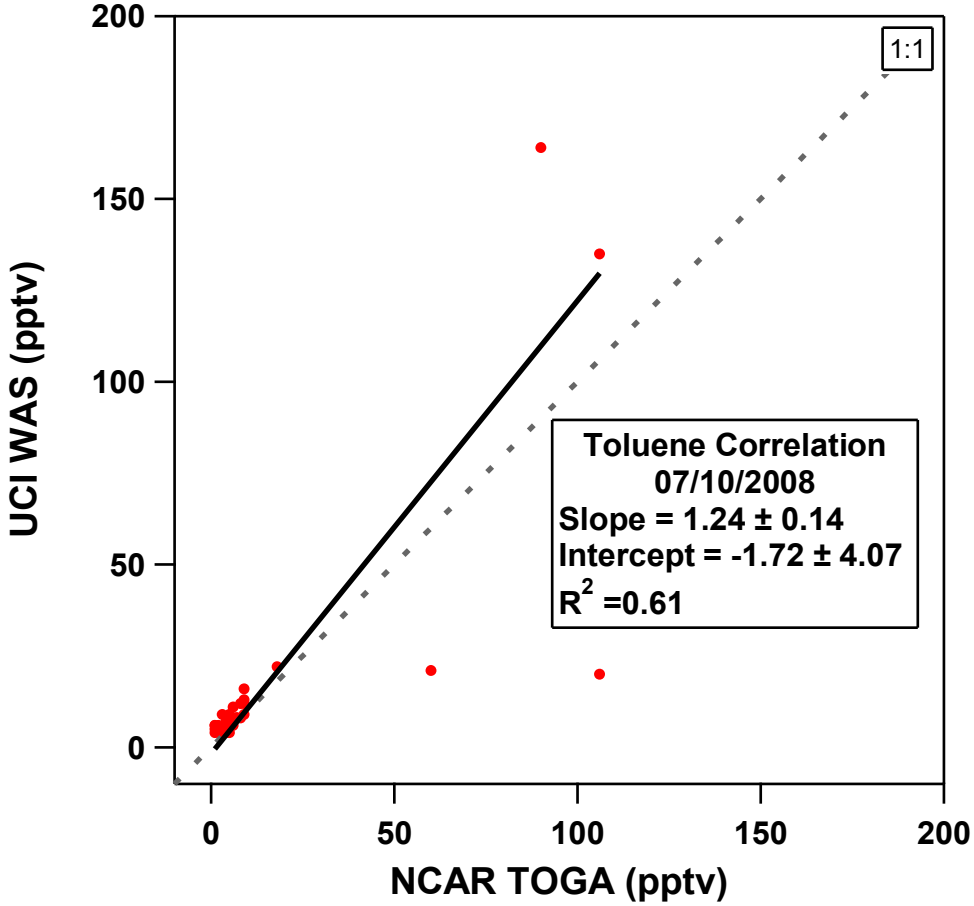

07/10/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
Pentane (pptv)
Altitude (km)
GMT
600
500
400
300
200
100
0
10
8
6
4
2
0
15:00
16:00
17:00
18:00
19:00
20:00

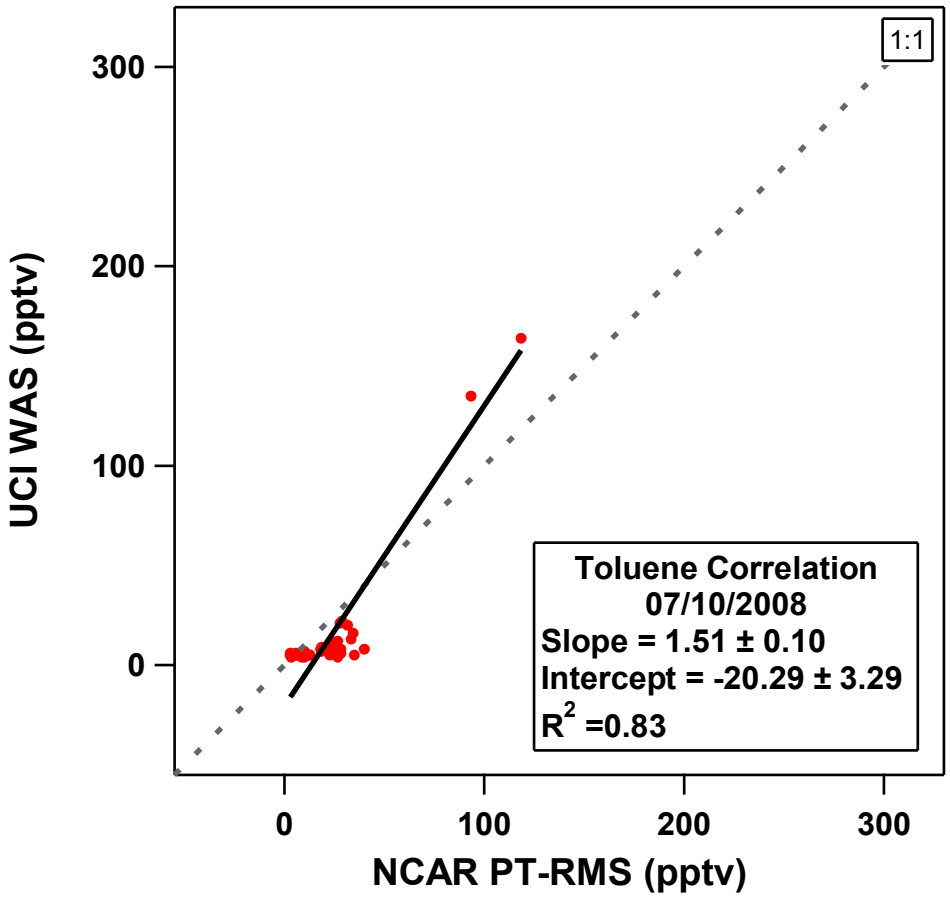

1:1
Pentane Correlation
07/10/2008
Slope = 1.55 ± 0.17
Intercept = -13.69 ± 10.96
R2 =0.54
UCI WAS (pptv)
NCAR TOGA (pptv)
600
500
400
300
200
100
0
0
100
200
300
400
500
600

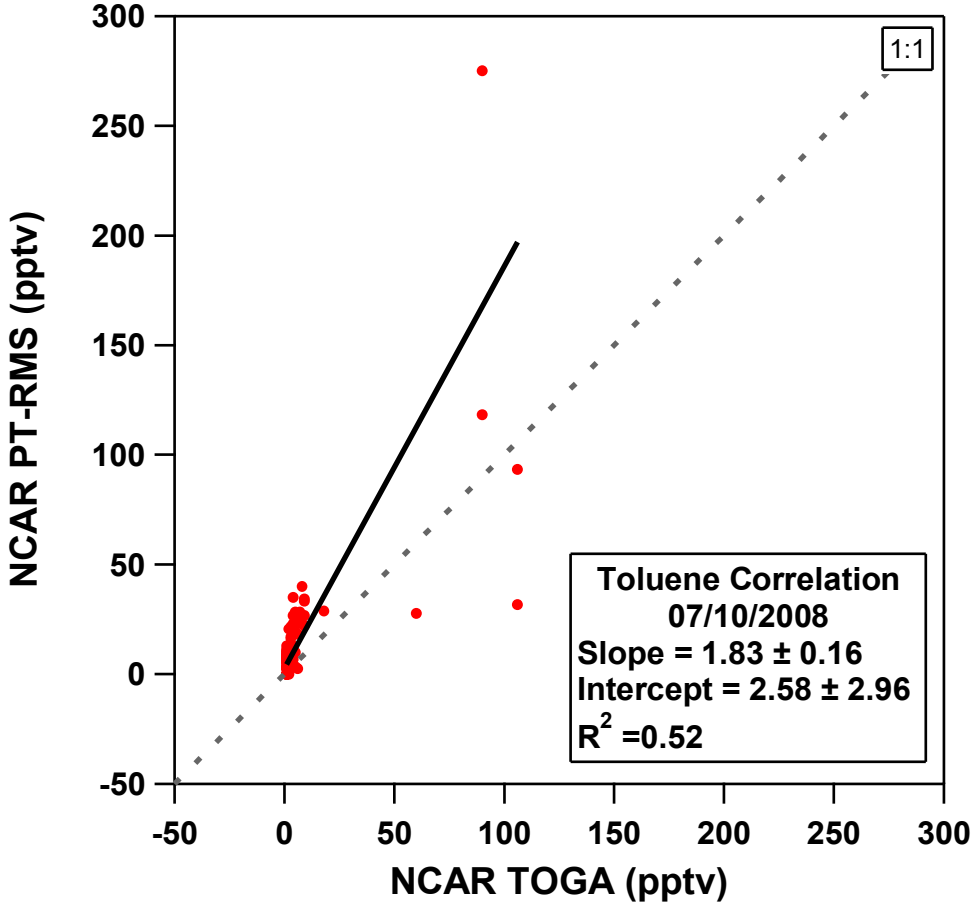

07/10/2008
UCIGC R2
NCAR TOGA R4
Tetrachloromethane (pptv)
Altitude (km)
GMT
96
94
92
90
88
86
84
82
80
10
8
6
4
2
0
15:00
16:00
17:00
18:00
19:00
20:00


1:1
Tetrachloromethane Correlation
07/10/2008
R2 =0.21
UCI WAS (pptv)
NCAR TOGA (pptv)
100
95
90
85
80
80
85
90
95
100


07/10/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
PTRMS R1
Toluene (pptv)
Altitude (km)
GMT
500
400
300
200
100
0
10
8
6
4
2
0
15:00
16:00
17:00
18:00
19:00
20:00


200
150
100
50
0
UCI WAS (pptv)
0
50
100
150
200
NCAR TOGA (pptv)
1:1
Toluene Correlation
07/10/2008
Slope = 1.24 ± 0.14
Intercept = -1.72 ± 4.07
R2 =0.61


1:1
Toluene Correlation
07/10/2008
Slope = 1.51 ± 0.10
Intercept = -20.29 ± 3.29
R2 =0.83
UCI WAS (pptv)
NCAR PT-RMS (pptv)
300
200
100
0
0
100
200
300


1:1
Toluene Correlation
07/10/2008
Slope = 1.83 ± 0.16
Intercept = 2.58 ± 2.96
R2 =0.52
NCAR PT-RMS (pptv)
NCAR TOGA (pptv)
300
250
200
150
100
50
0
-50
-50
0
50
100
150
200
250
300