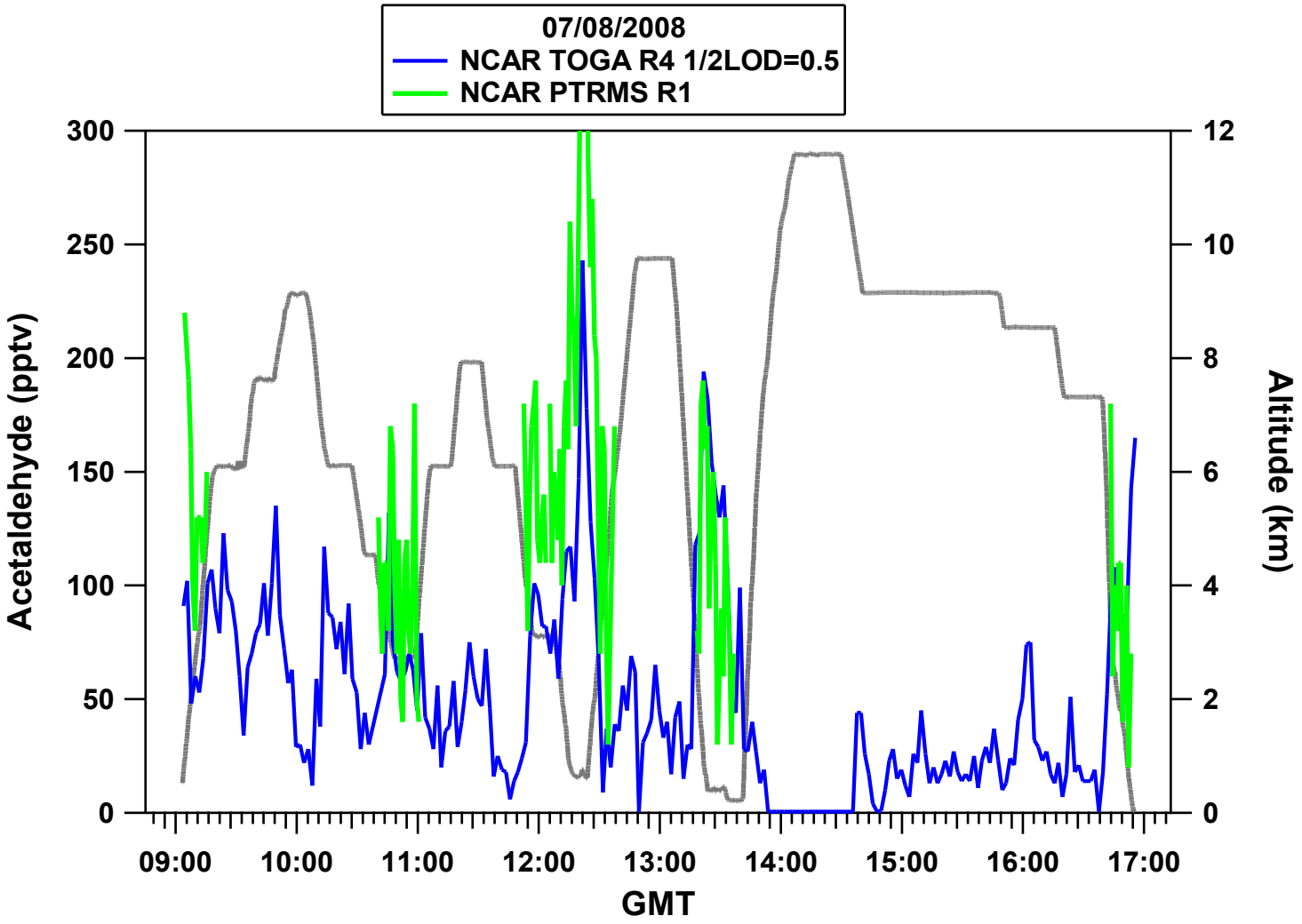
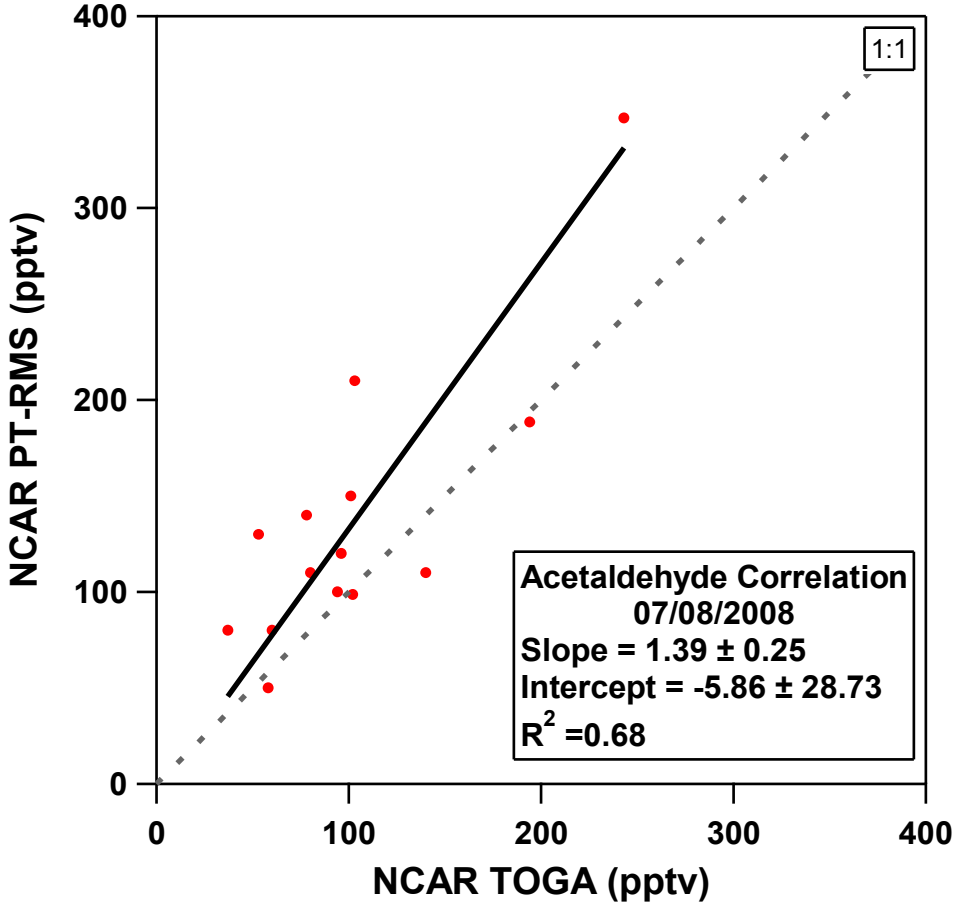
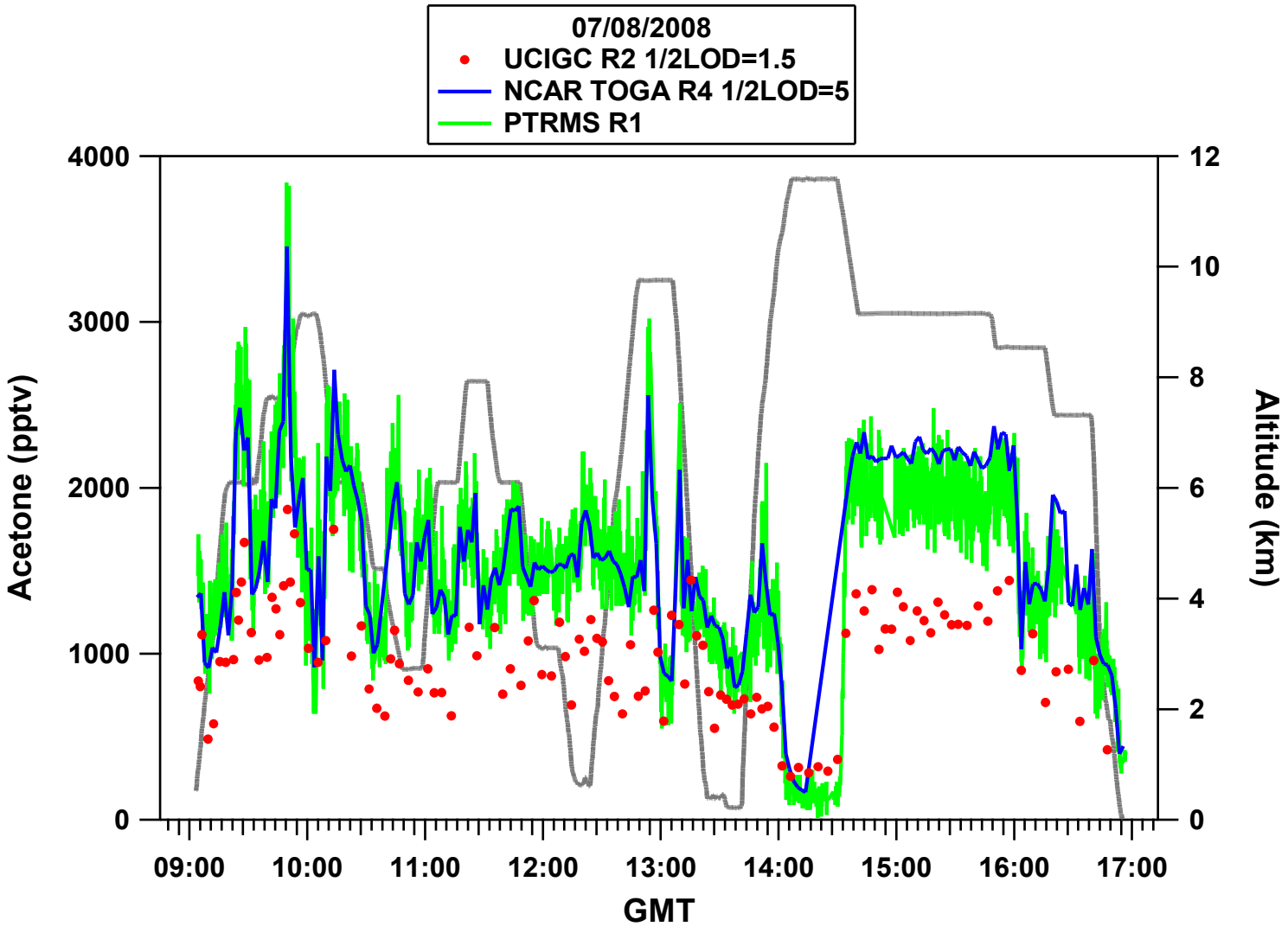
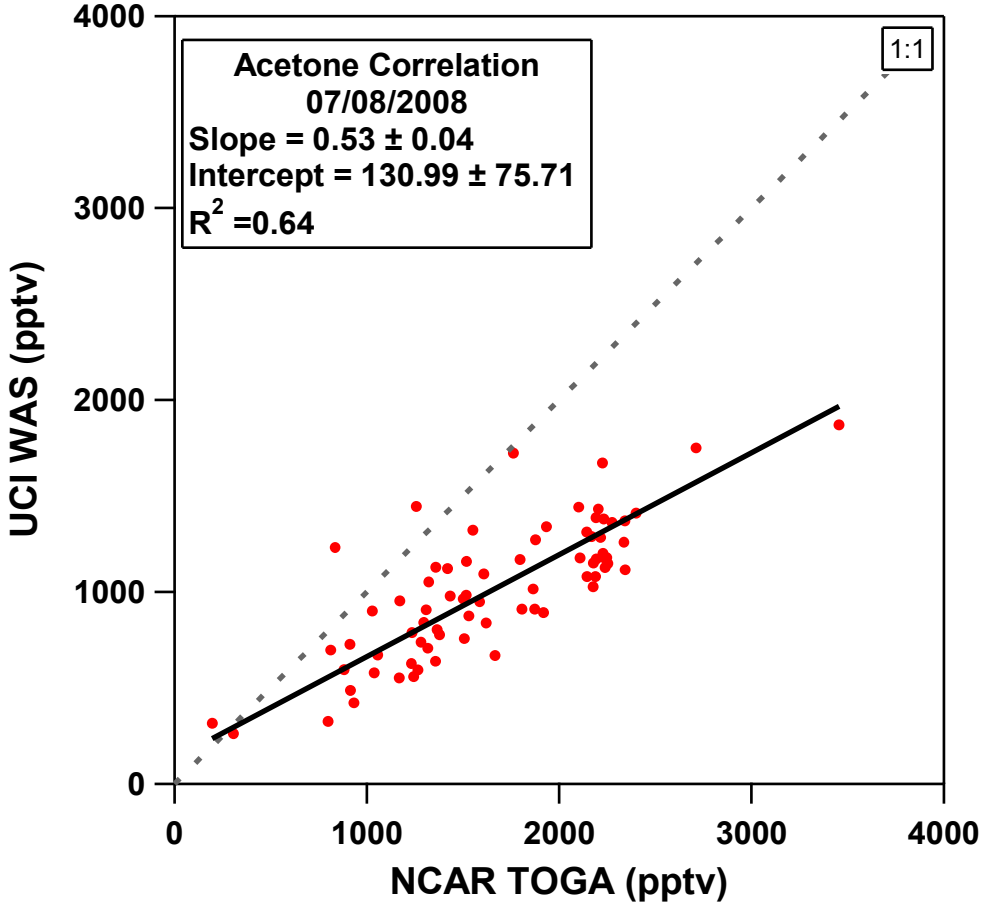
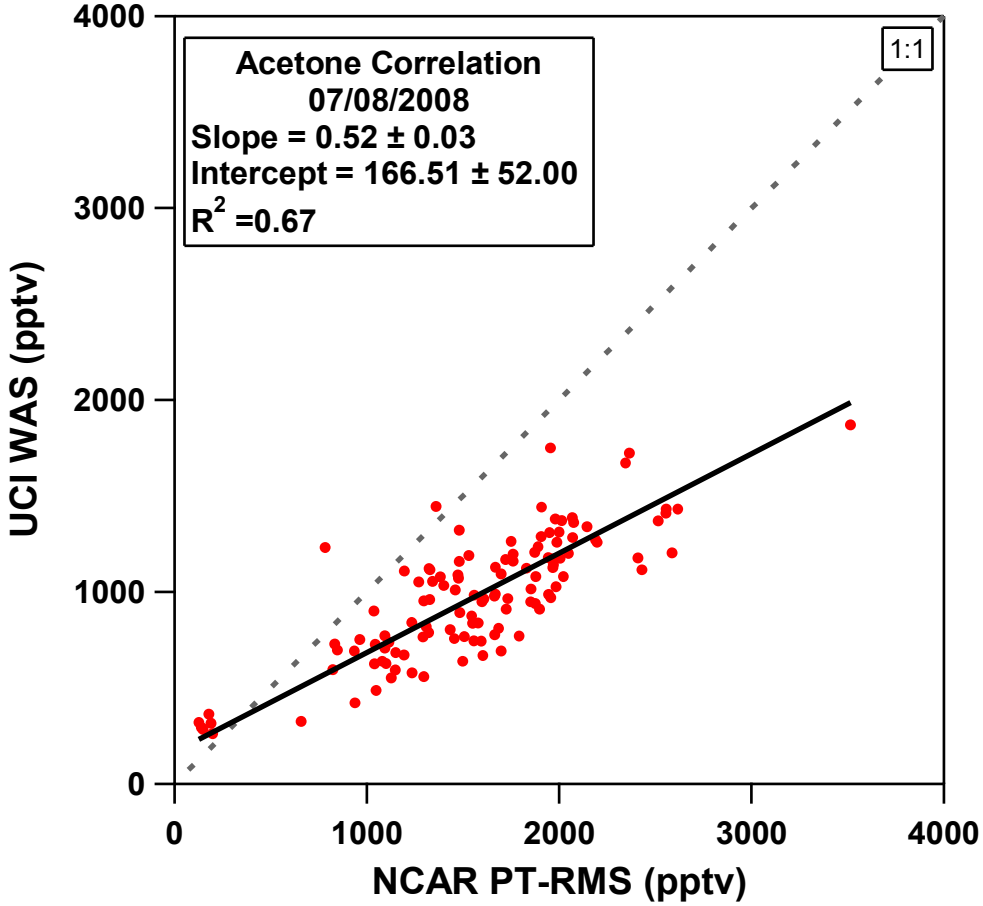
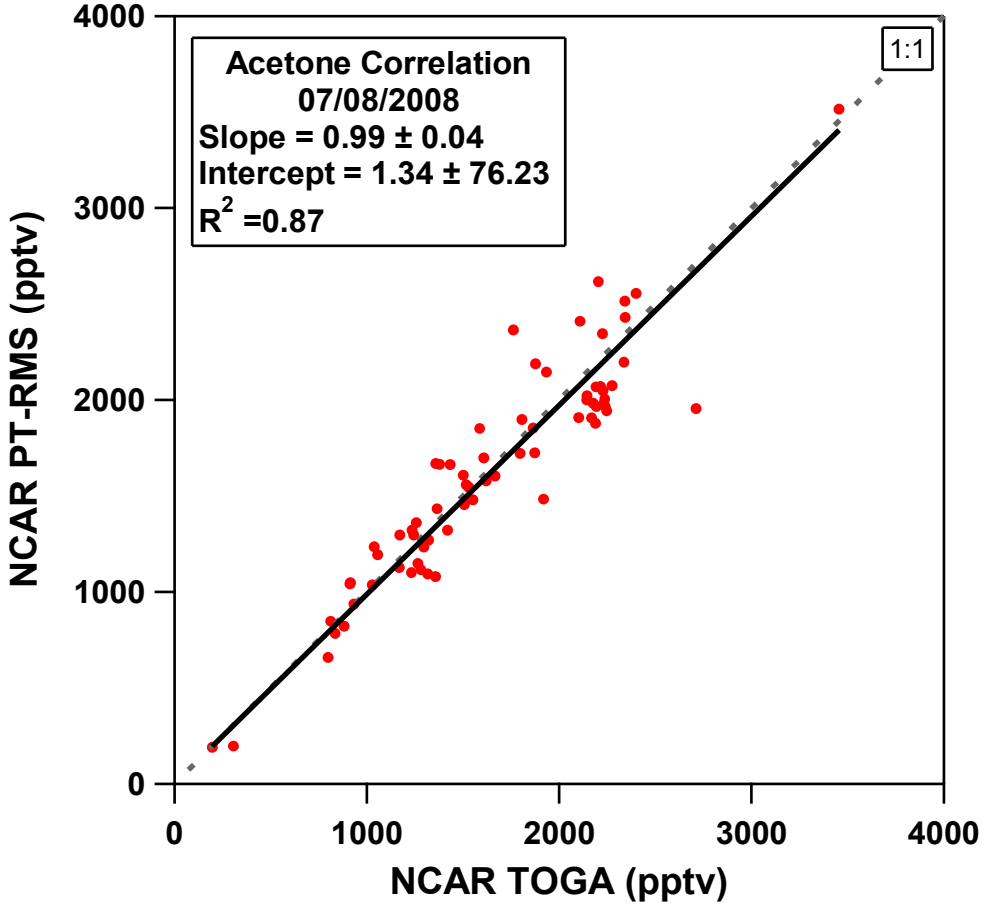

07/08/2008
NCAR TOGA R4 1/2LOD=0.5
NCAR PTRMS R1
Acetaldehyde (pptv)
Altitude (km)
GMT
300
250
200
150
100
50
0
12
10
8
6
4
2
0
09:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00

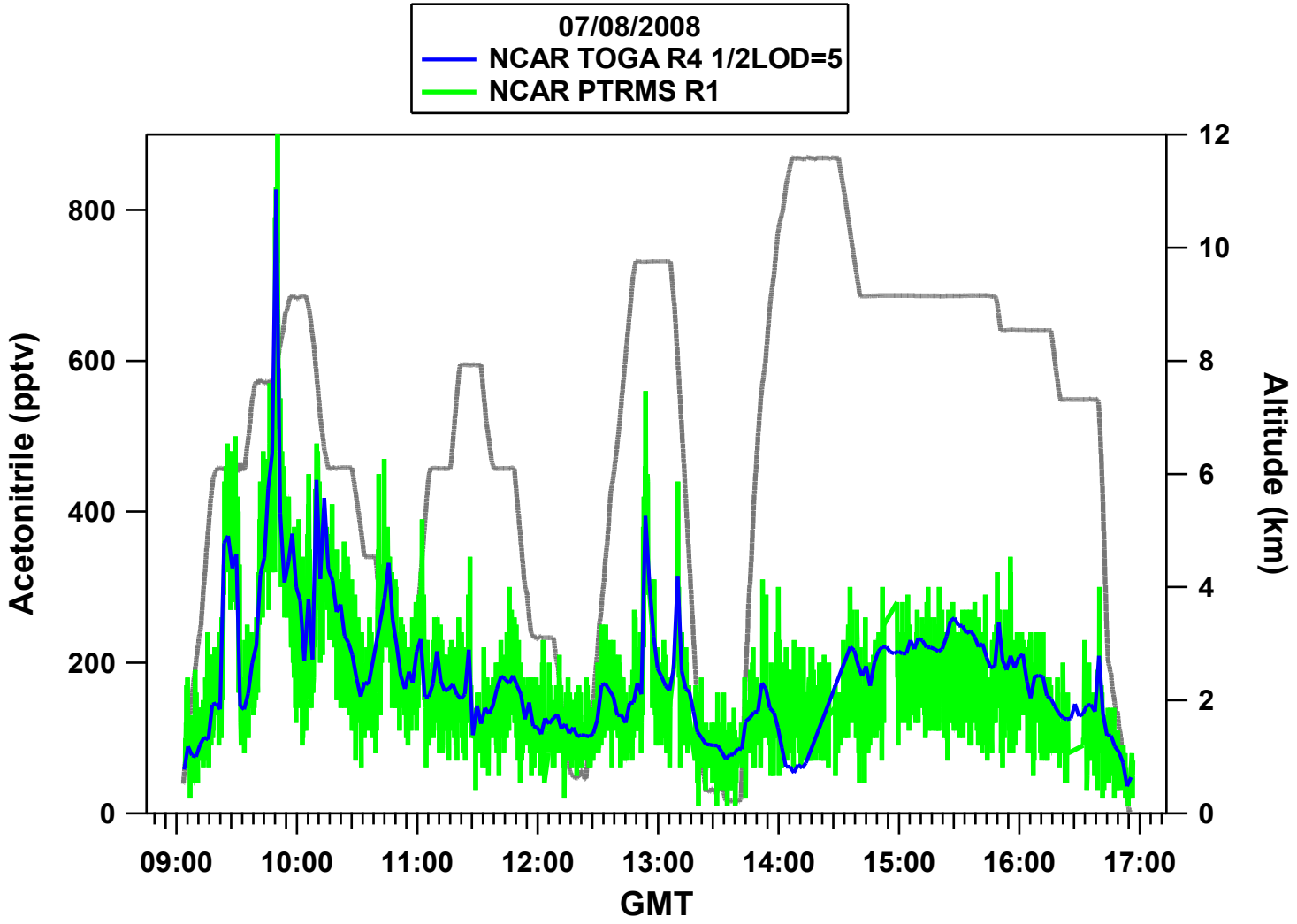

400
300
200
100
0
0
100
200
300
400
NCAR PT-RMS (pptv)
NCAR TOGA (pptv)
1:1
Acetaldehyde Correlation
07/08/2008
Slope = 1.39 ± 0.25
Intercept = -5.86 ± 28.73
R2 =0.68

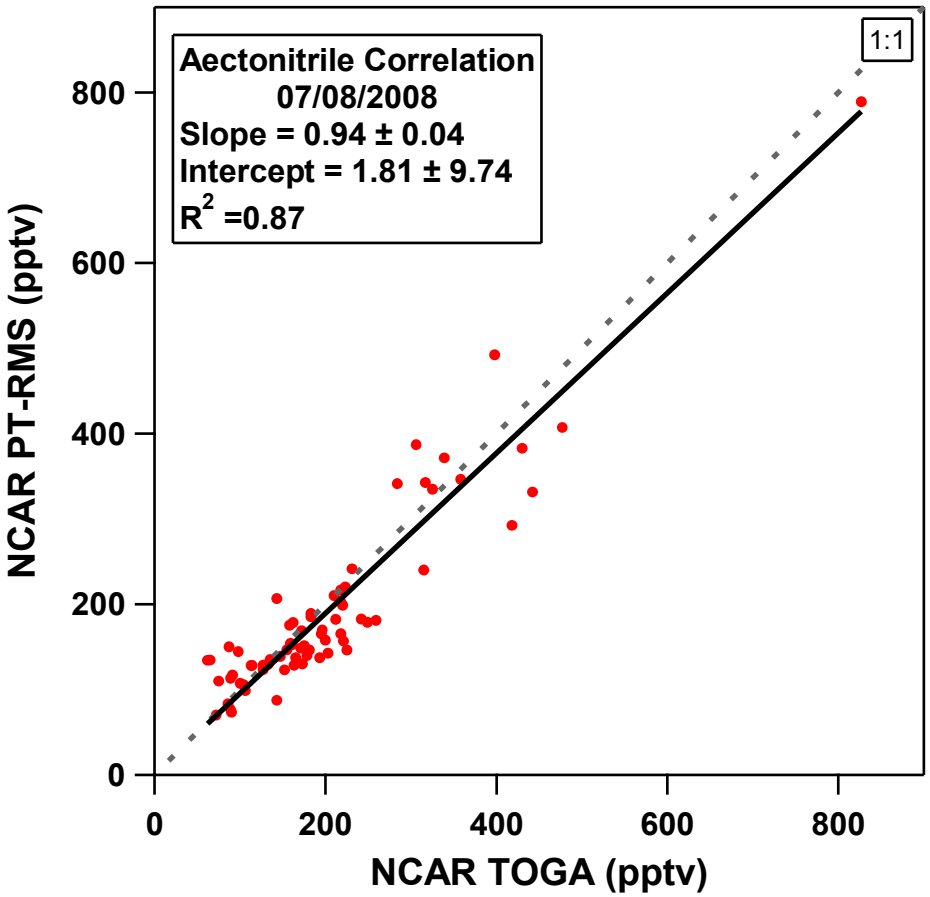

07/08/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=5
PTRMS R1
Acetone (pptv)
Altitude (km)
GMT
4000
3000
2000
1000
0
12
10
8
6
4
2
0
09:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00

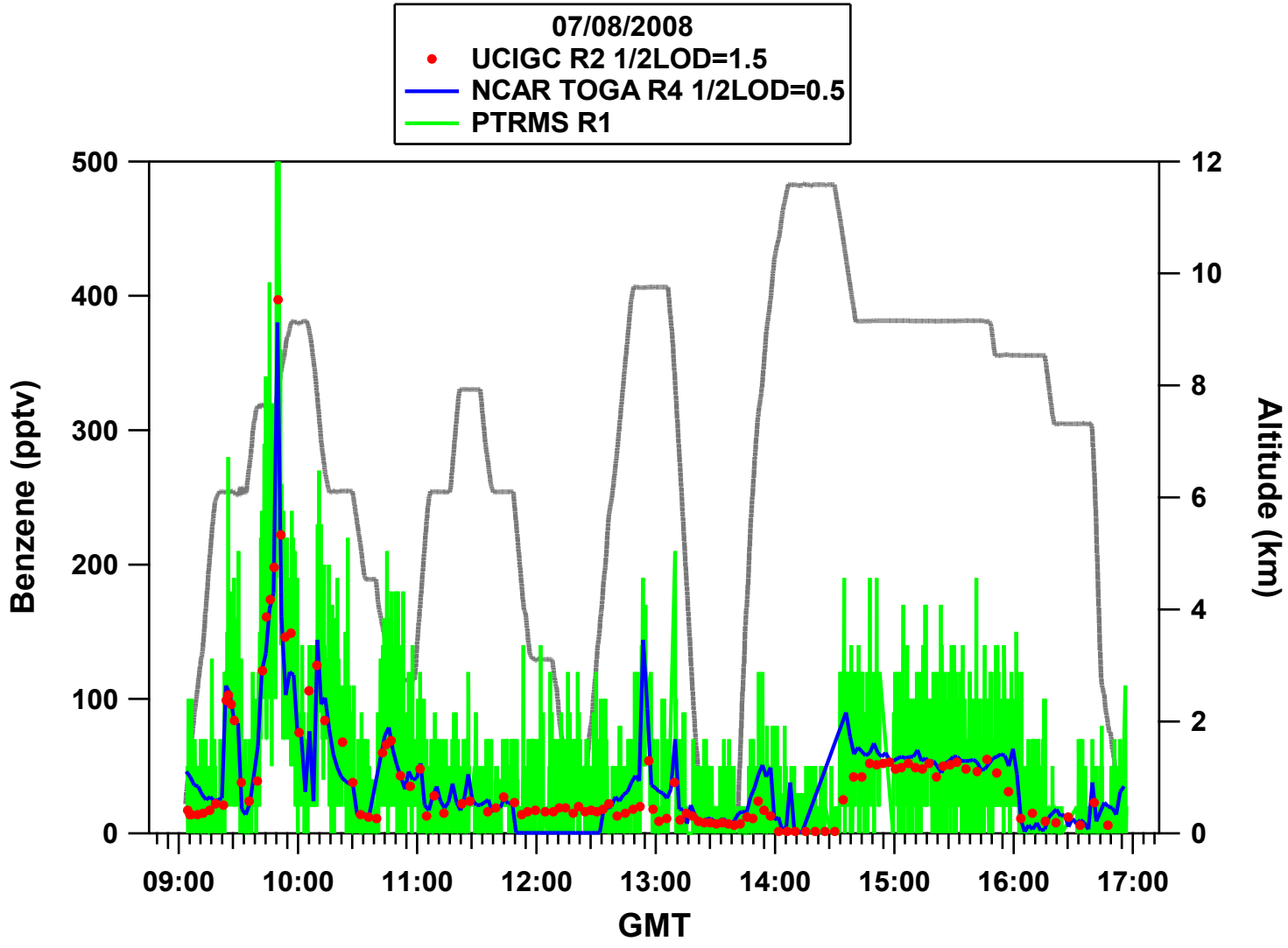

Acetone Correlation
07/08/2008
Slope = 0.53 ± 0.04
Intercept = 130.99 ± 75.71
R2 =0.64
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
0
1000
2000
3000
4000

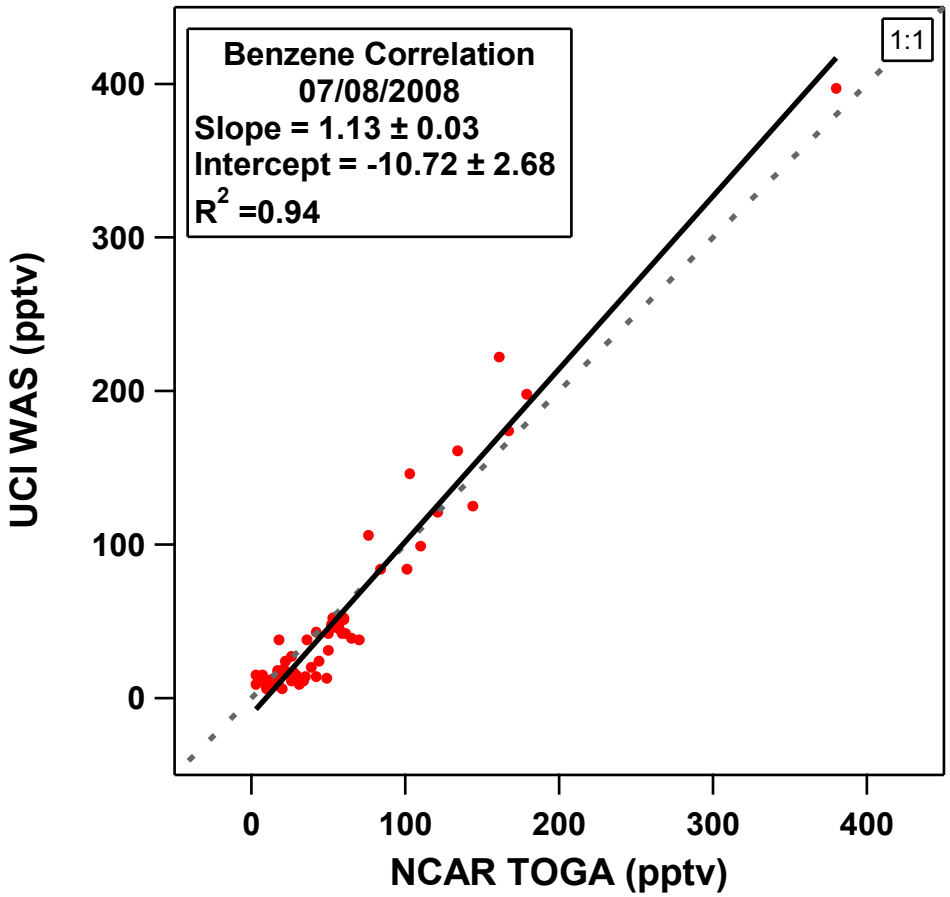

Acetone Correlation
07/08/2008
Slope = 0.52 ± 0.03
Intercept = 166.51 ± 52.00
R2 =0.67
1:1
UCI WAS (pptv)
NCAR PT-RMS (pptv)
0
1000
2000
3000
4000

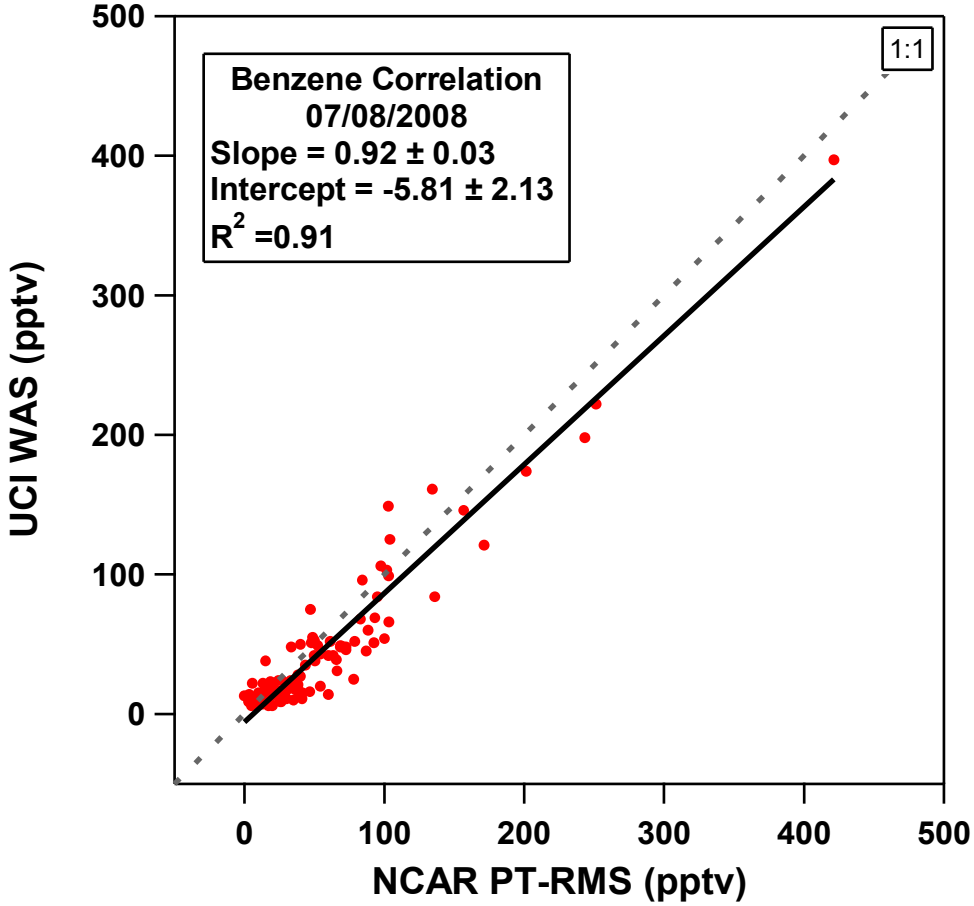

Acetone Correlation
07/08/2008
Slope = 0.99 ± 0.04
Intercept = 1.34 ± 76.23
R2 =0.87
1:1
NCAR PT-RMS (pptv)
NCAR TOGA (pptv)
0
1000
2000
3000
4000

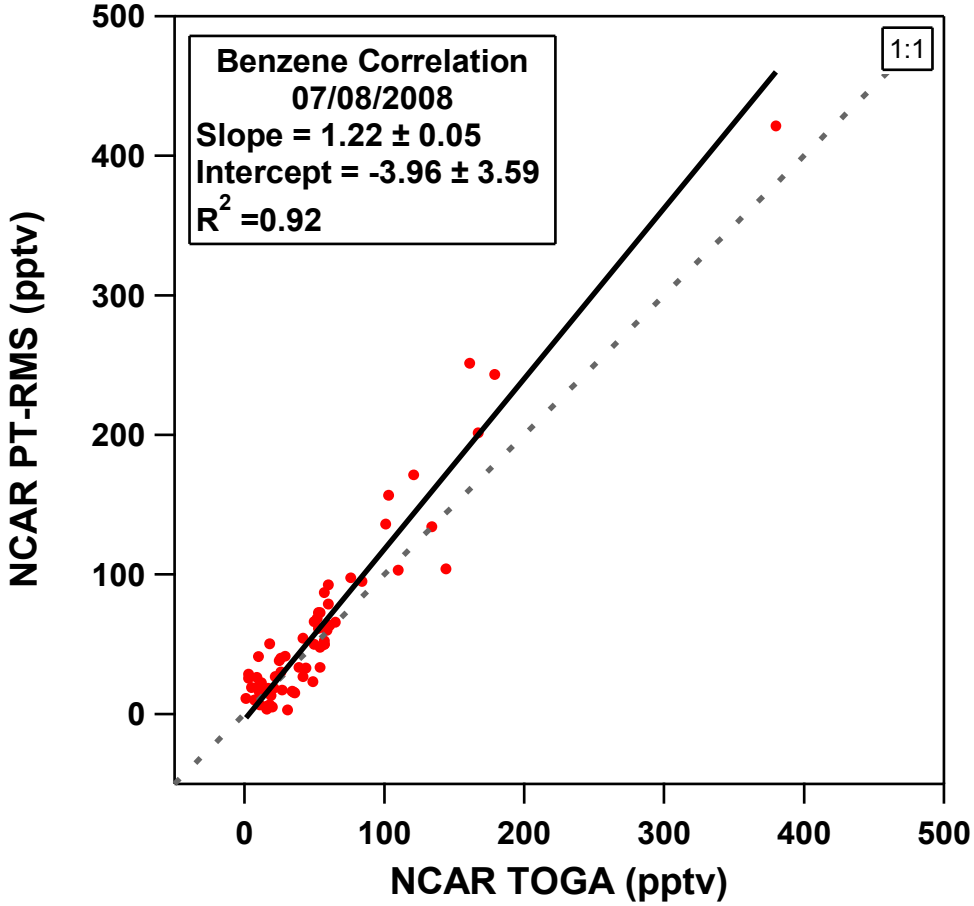

07/08/2008
NCAR TOGA R4 1/2LOD=5
NCAR PTRMS R1
Acetonitrile (pptv)
0
200
400
600
800
Altitude (km)
0
2
4
6
8
10
12
09:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00
GMT

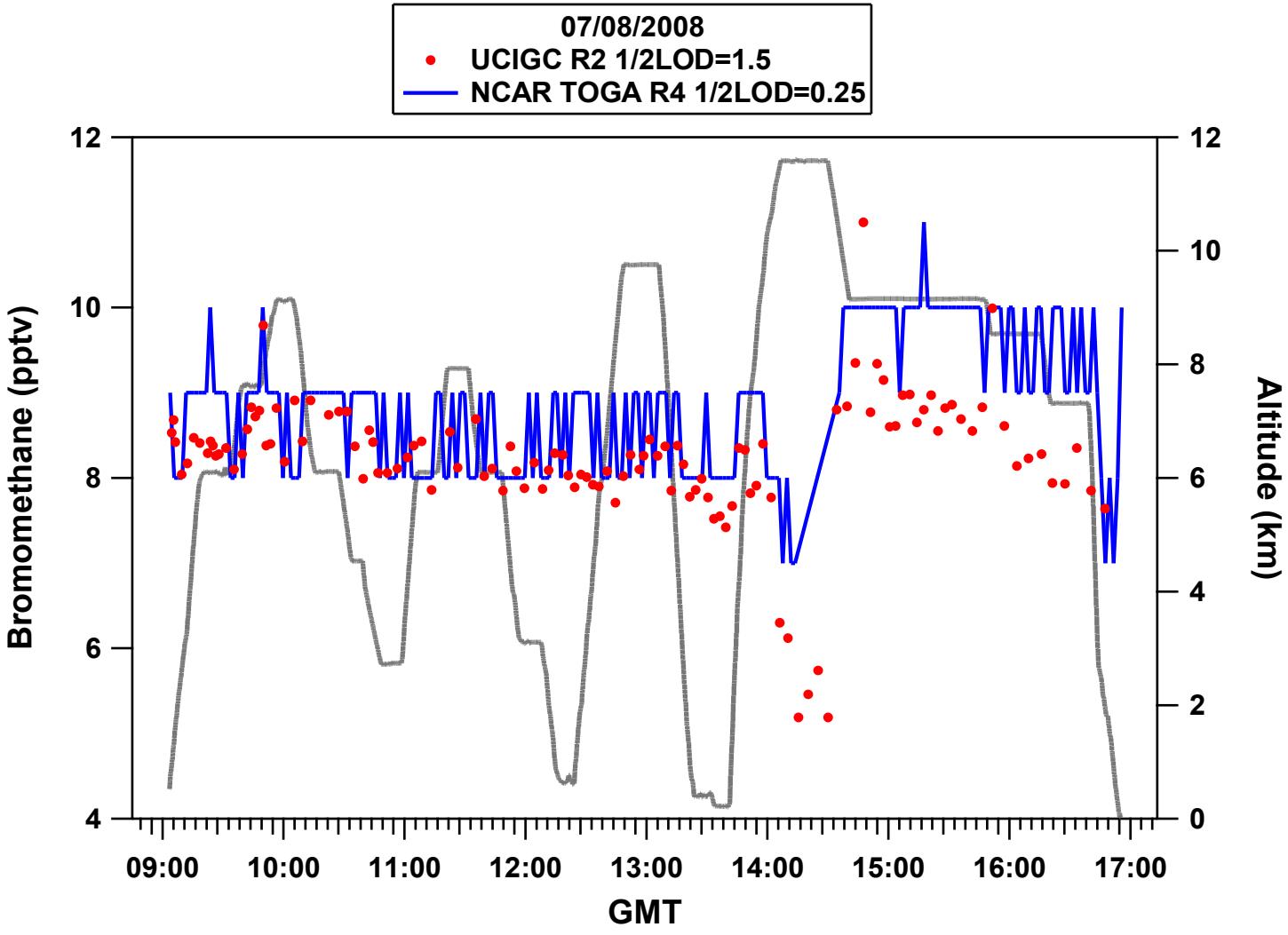

Aectonitrile Correlation
07/08/2008
Slope = 0.94 ± 0.04
Intercept = 1.81 ± 9.74
R2 =0.87
1:1
NCAR PT-RMS (pptv)
NCAR TOGA (pptv)
0
200
400
600
800

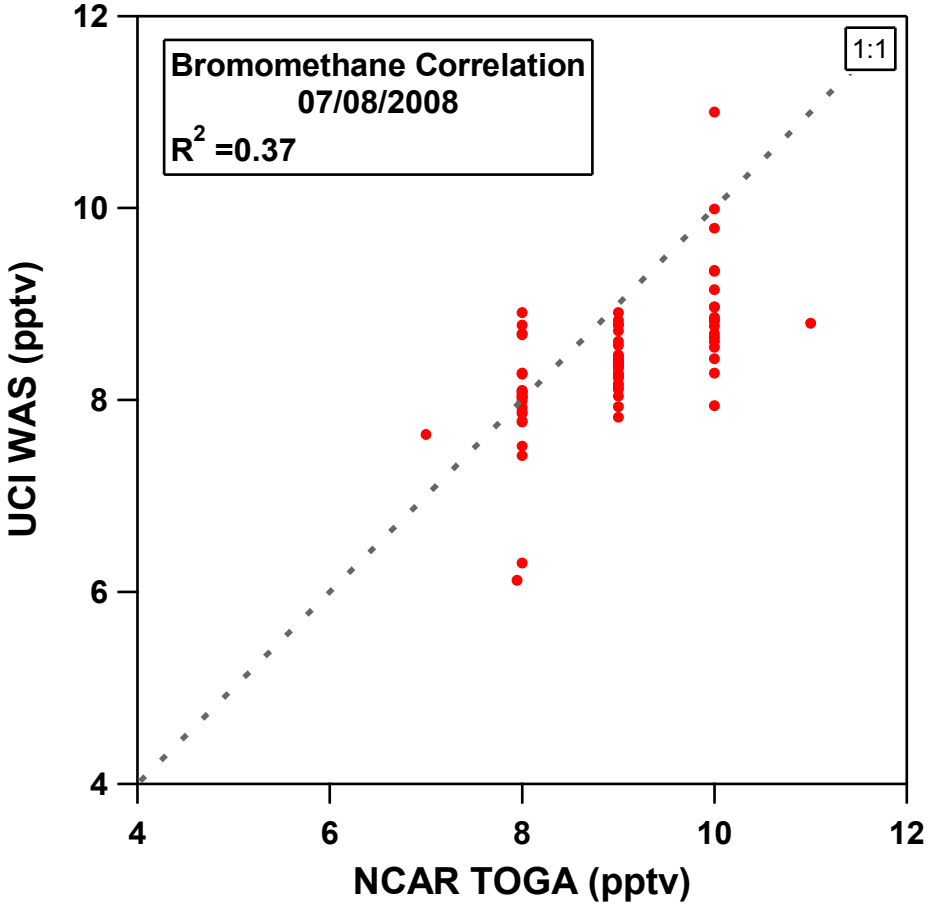

07/08/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
PTRMS R1
Benzene (pptv)
Altitude (km)
GMT
500
400
300
200
100
0
12
10
8
6
4
2
0
09:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00

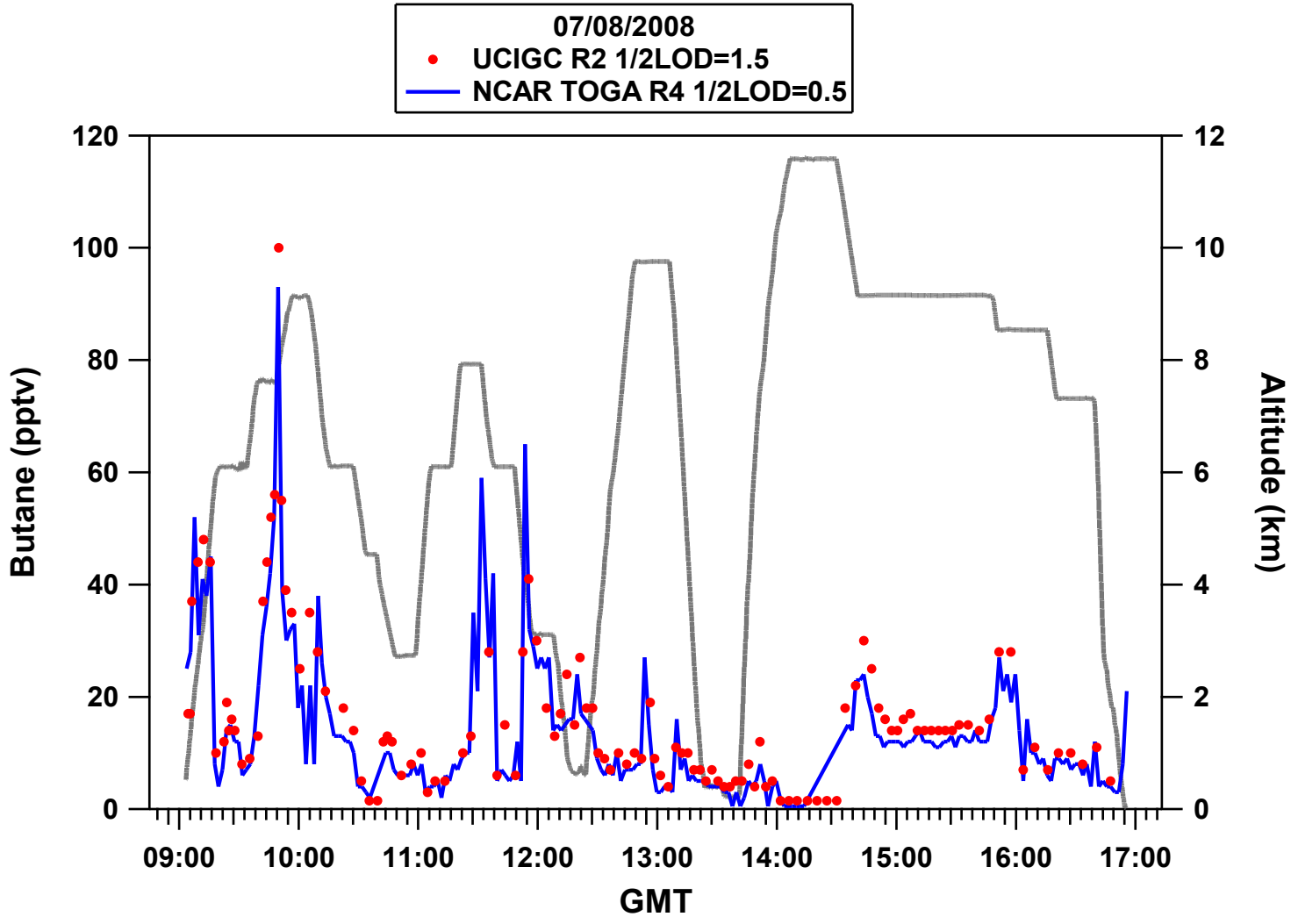

Benzene Correlation
07/08/2008
Slope = 1.13 ± 0.03
Intercept = -10.72 ± 2.68
R2 =0.94
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
0
100
200
300
400

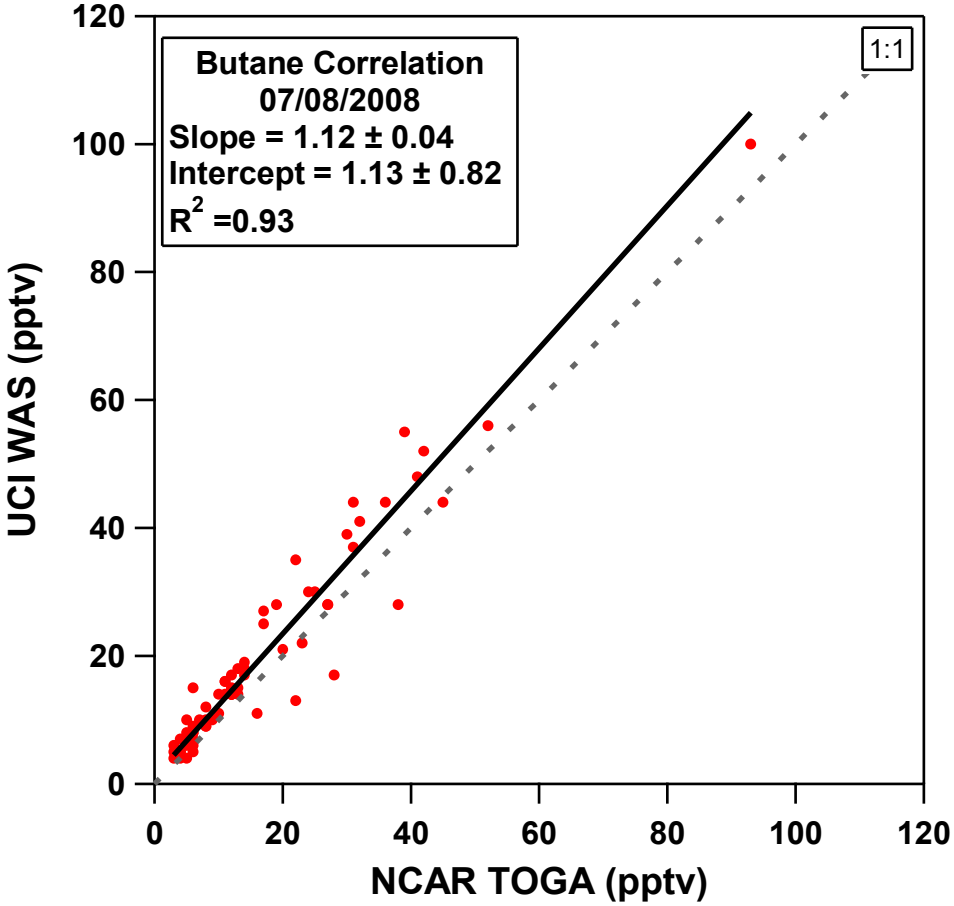

Benzene Correlation
07/08/2008
Slope = 0.92 ± 0.03
Intercept = -5.81 ± 2.13
R2 =0.91
1:1
UCI WAS (pptv)
NCAR PT-RMS (pptv)
500
400
300
200
100
0
0
100
200
300
400
500

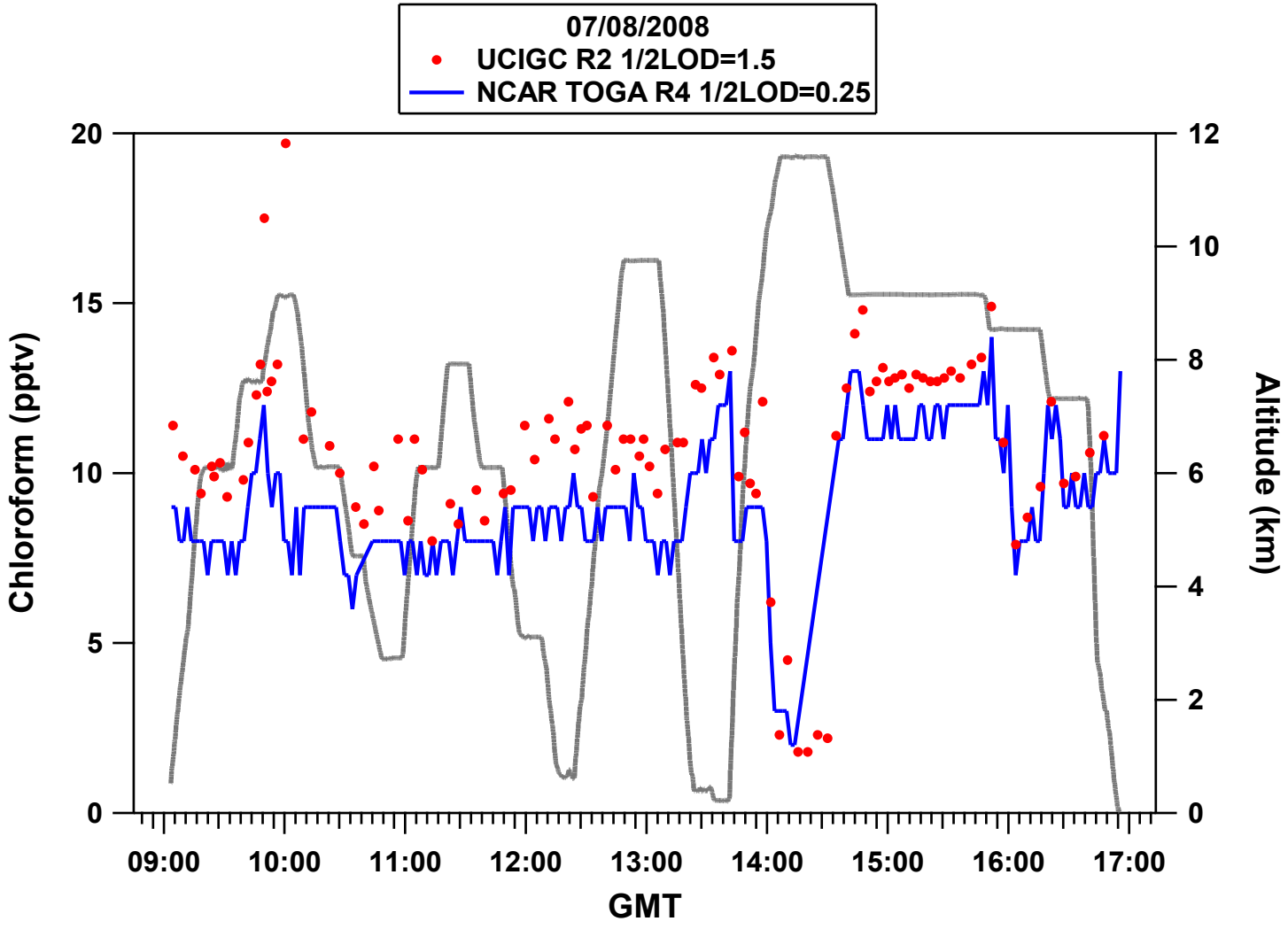

Benzene Correlation
07/08/2008
Slope = 1.22 ± 0.05
Intercept = -3.96 ± 3.59
R2 =0.92
1:1
NCAR PT-RMS (pptv)
NCAR TOGA (pptv)
500
400
300
200
100
0
0
100
200
300
400
500

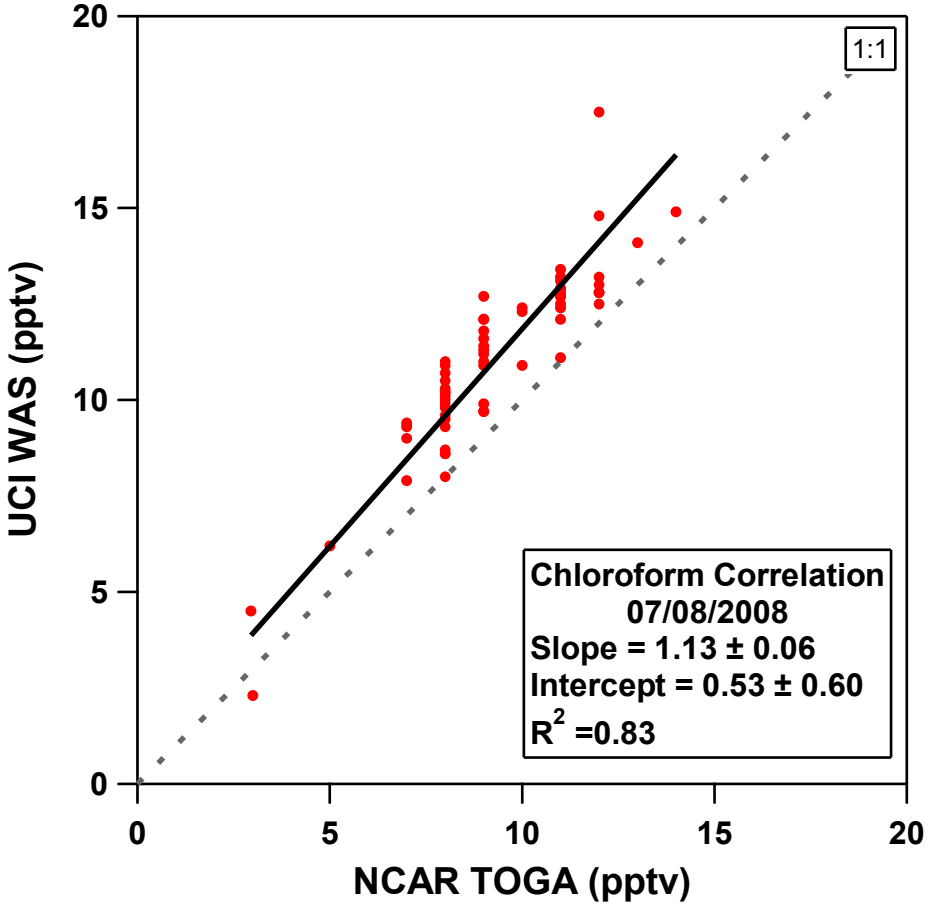

07/08/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.25
Bromomethane (pptv)
Altitude (km)
GMT
12
10
8
6
4
0
2
09:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00

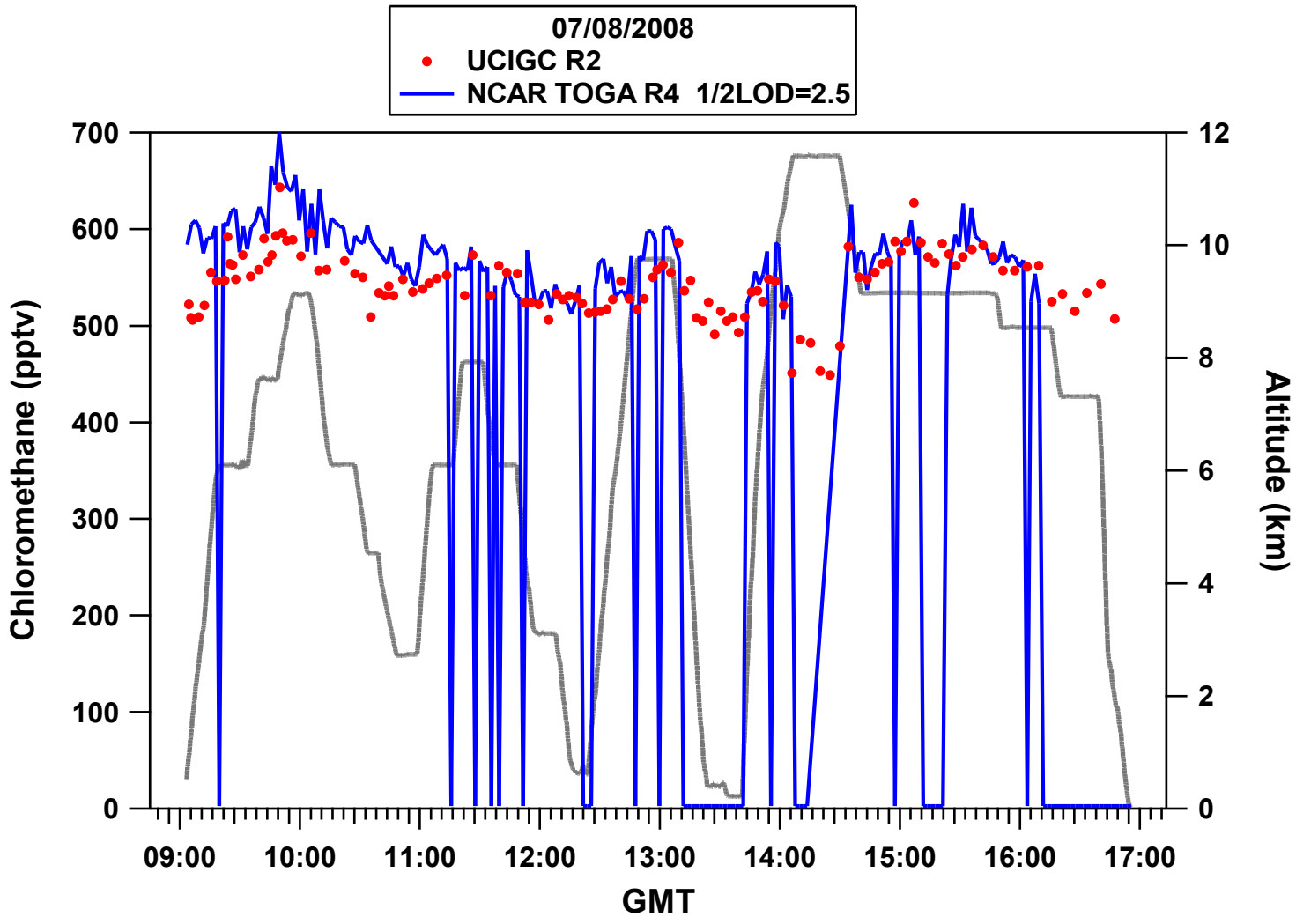

Bromomethane Correlation
07/08/2008
R2 =0.37
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
4
6
8
10
12

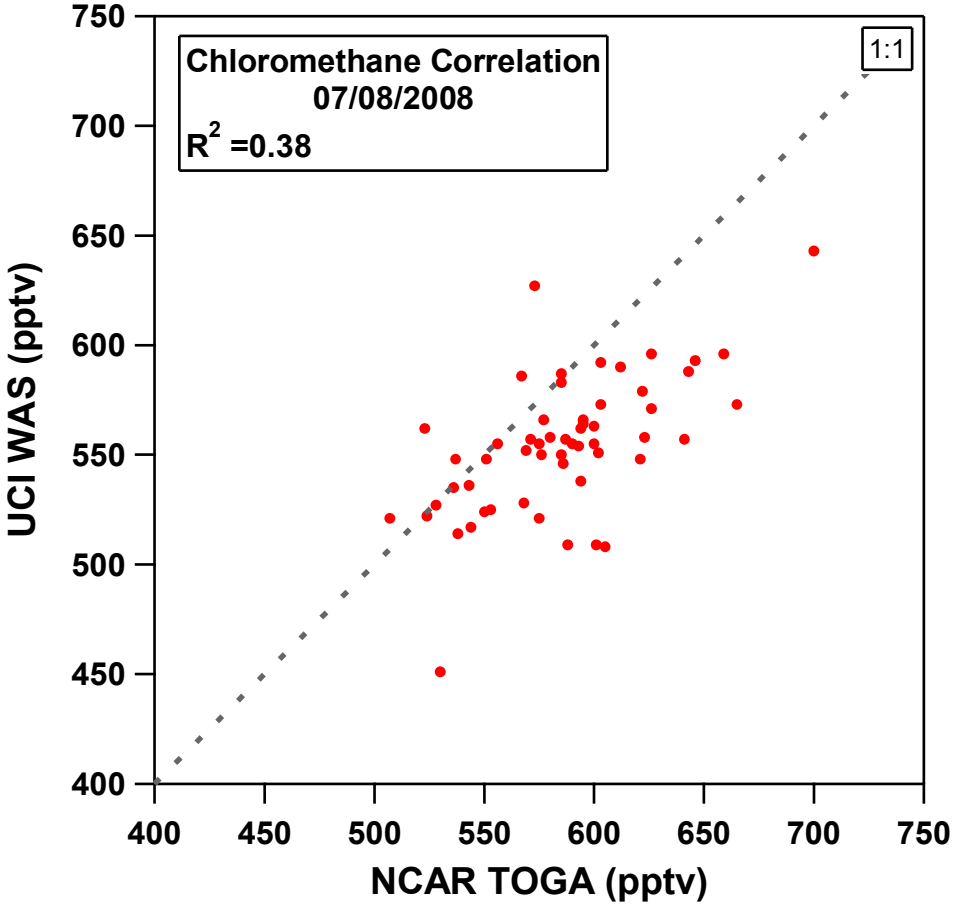

07/08/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
Butane (pptv)
Altitude (km)
GMT
0
20
40
60
80
100
120
0
2
4
6
8
10
12
09:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00

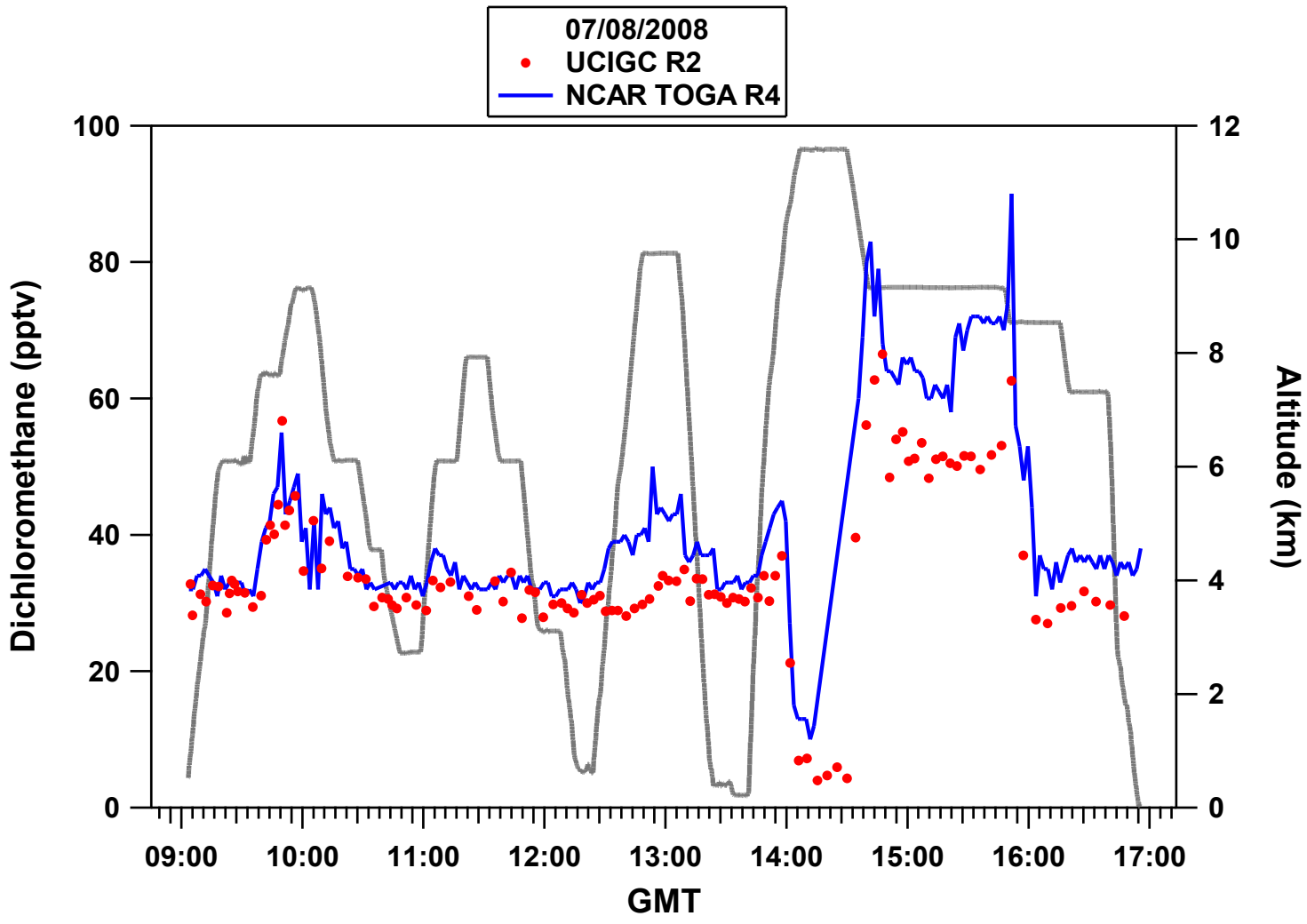

Butane Correlation
07/08/2008
Slope = 1.12 ± 0.04
Intercept = 1.13 ± 0.82
R2 =0.93
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
0
20
40
60
80
100
120

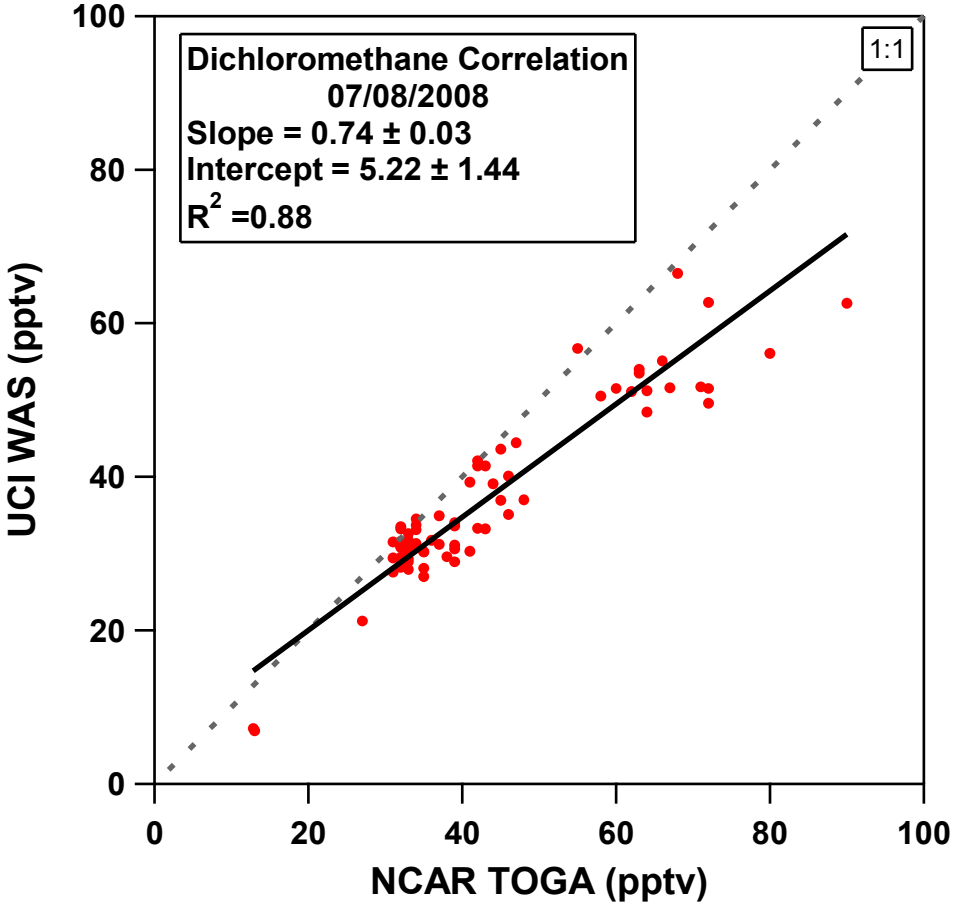

07/08/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.25
Chloroform (pptv)
Altitude (km)
GMT
0
5
10
15
20
0
2
4
6
8
10
12
09:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00

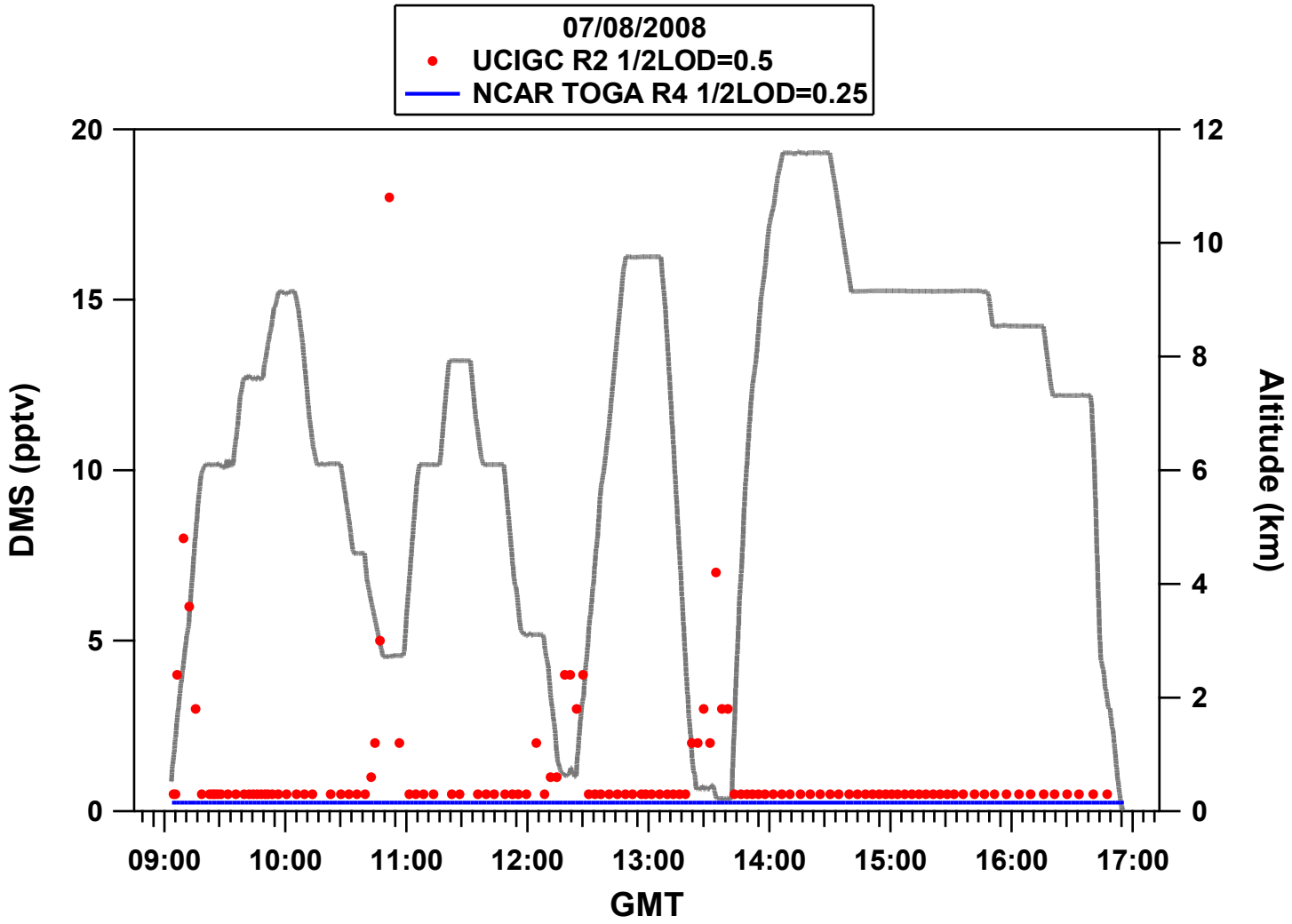

1:1
Chloroform Correlation
07/08/2008
Slope = 1.13 ± 0.06
Intercept = 0.53 ± 0.60
R2 =0.83
UCI WAS (pptv)
NCAR TOGA (pptv)
0
5
10
15
20

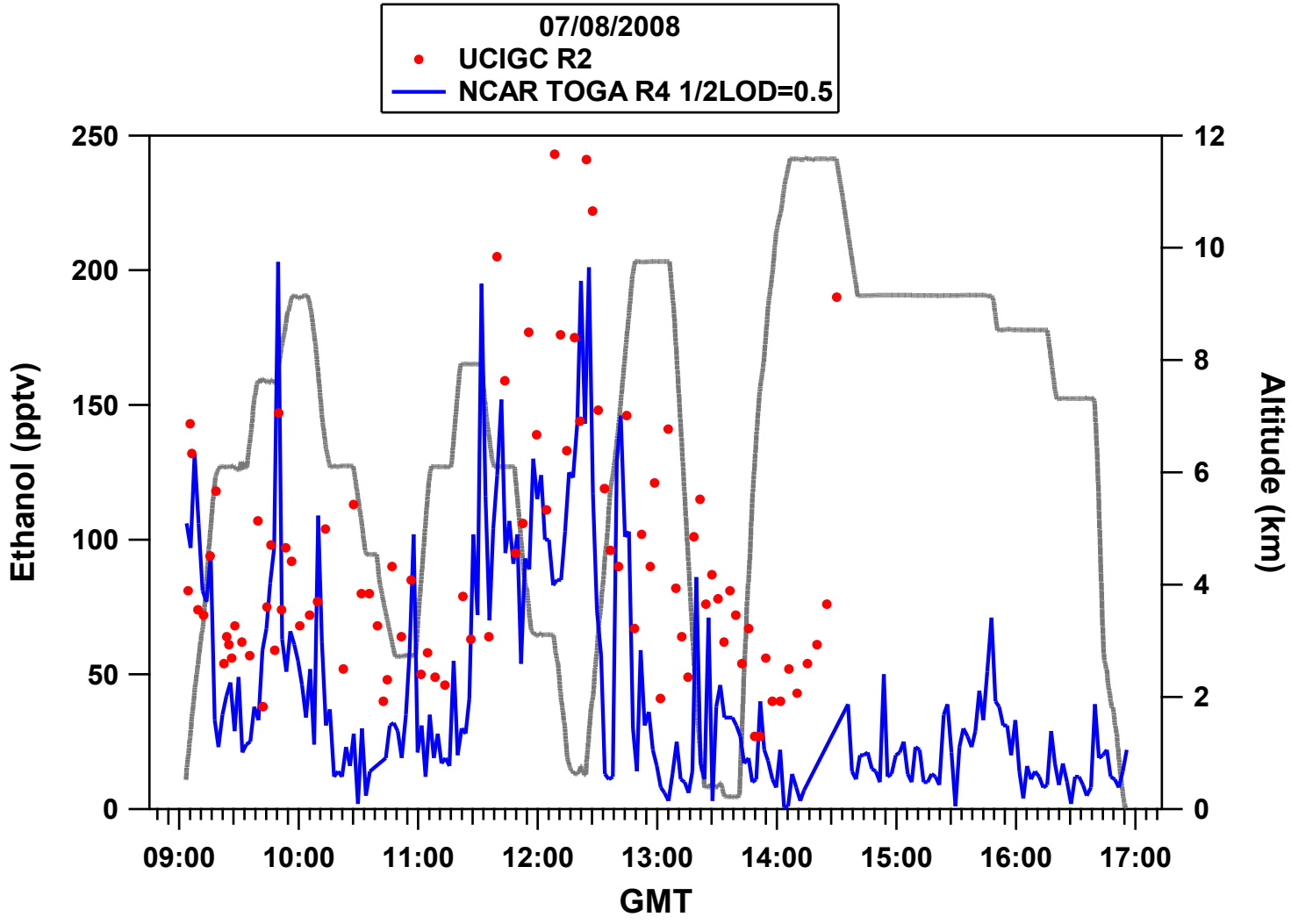

07/08/2008
UCIGC R2
NCAR TOGA R4 1/2LOD=2.5
Chloromethane (pptv)
Altitude (km)
GMT
0
100
200
300
400
500
600
700
0
2
4
6
8
10
12
09:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00

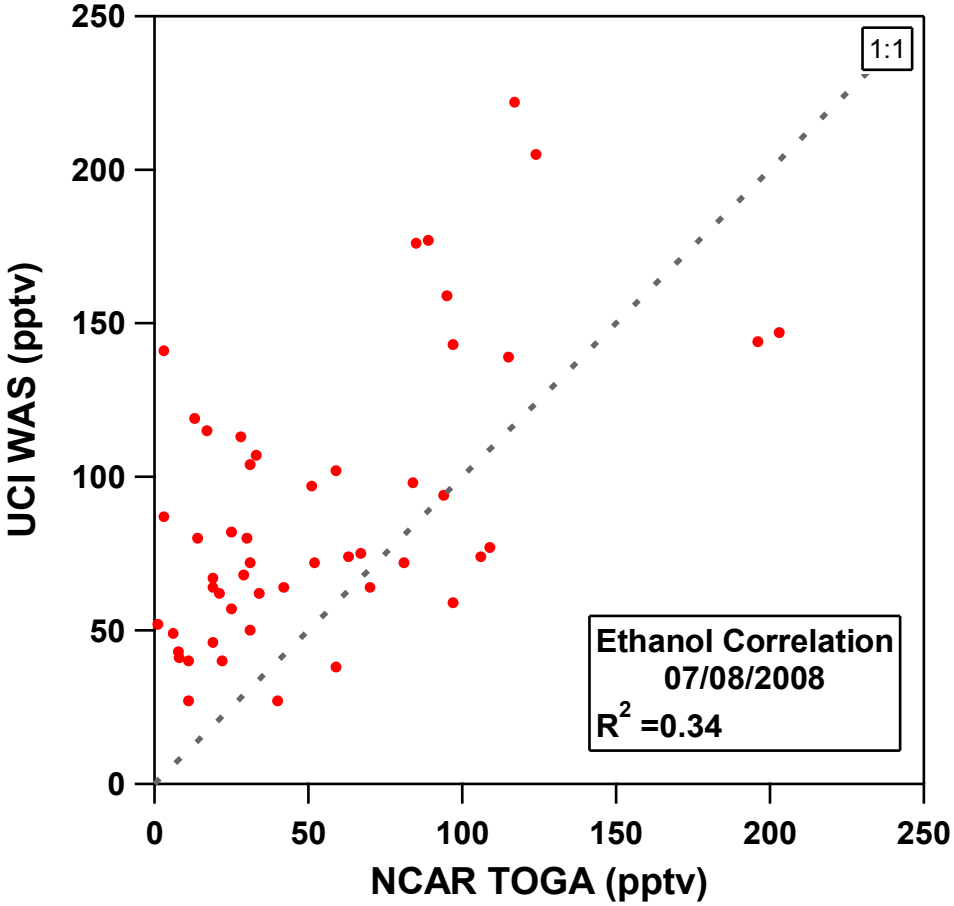

Chloromethane Correlation
07/08/2008
R2 =0.38
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
400
450
500
550
600
650
700
750

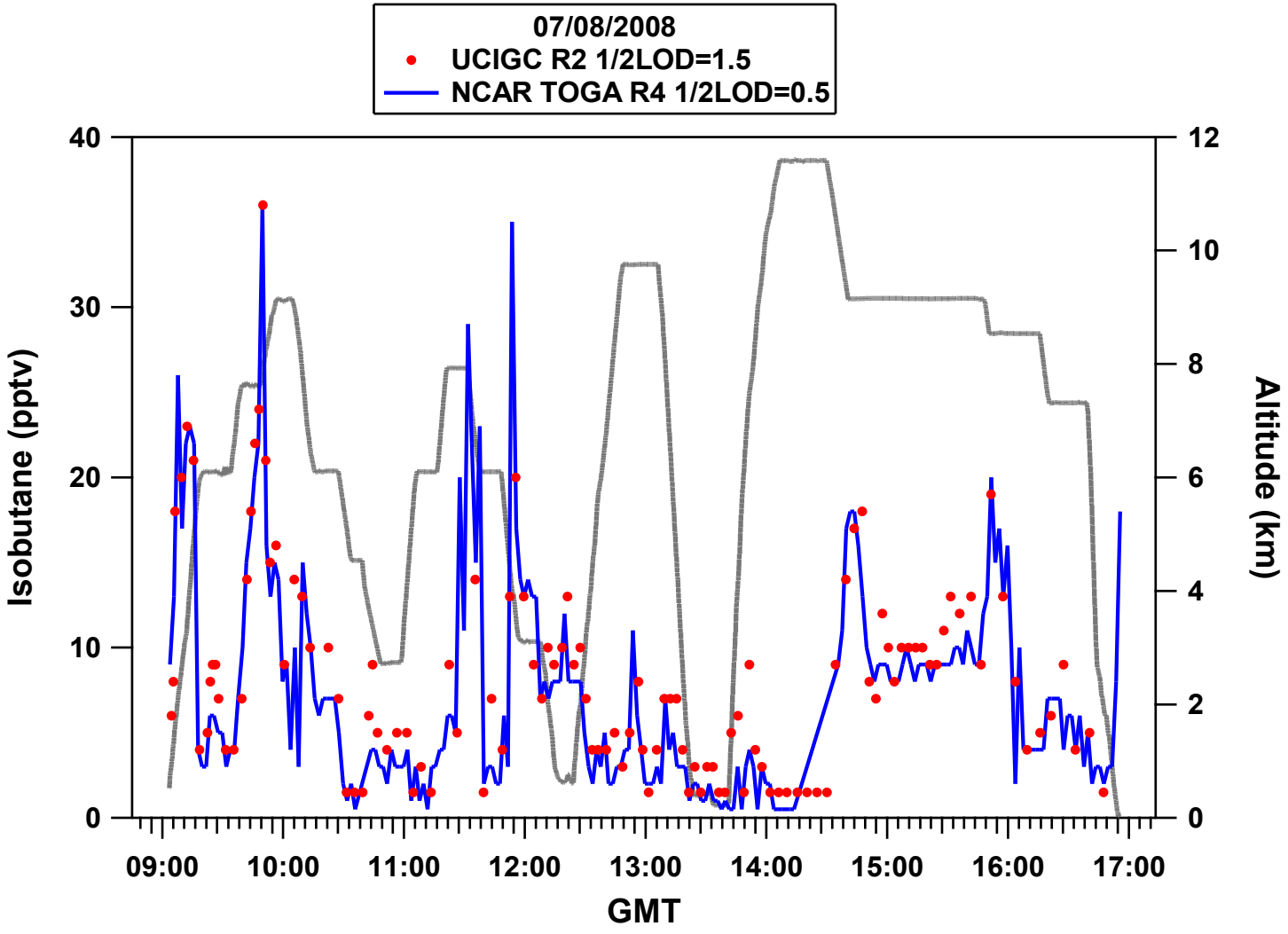

07/08/2008
UCIGC R2
NCAR TOGA R4
Dichloromethane (pptv)
Altitude (km)
GMT
100
80
60
40
20
0
12
10
8
6
4
2
0
09:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00

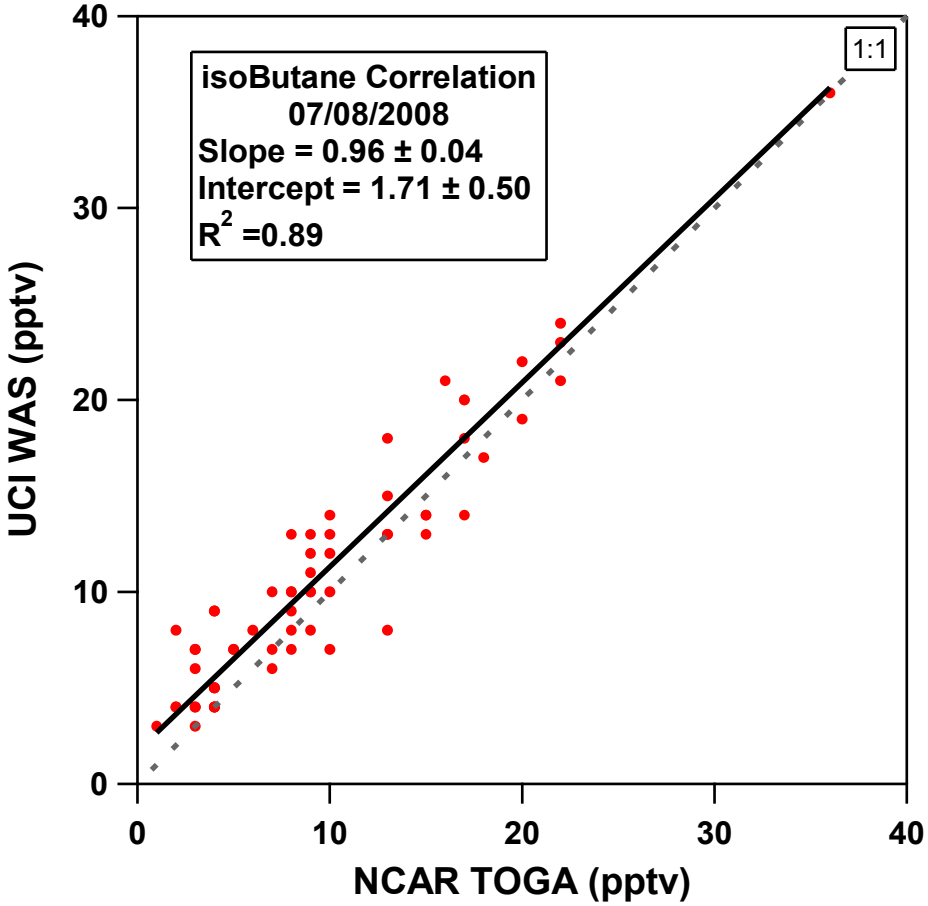

Dichloromethane Correlation
07/08/2008
Slope = 0.74 ± 0.03
Intercept = 5.22 ± 1.44
R2 =0.88
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
0
20
40
60
80
100

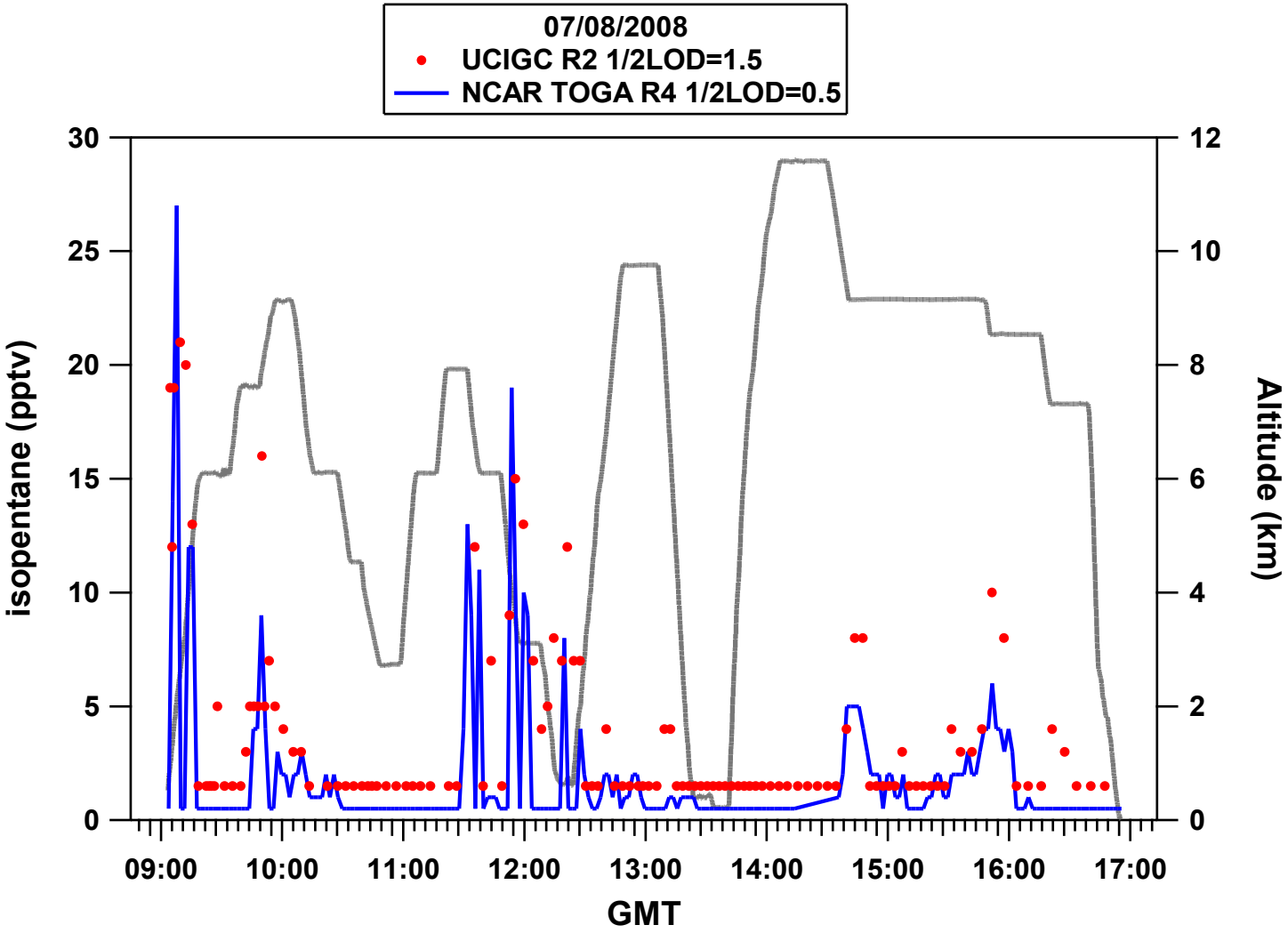

07/08/2008
UCIGC R2 1/2LOD=0.5
NCAR TOGA R4 1/2LOD=0.25
DMS (pptv)
Altitude (km)
GMT
0
5
10
15
20
0
2
4
6
8
10
12
09:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00

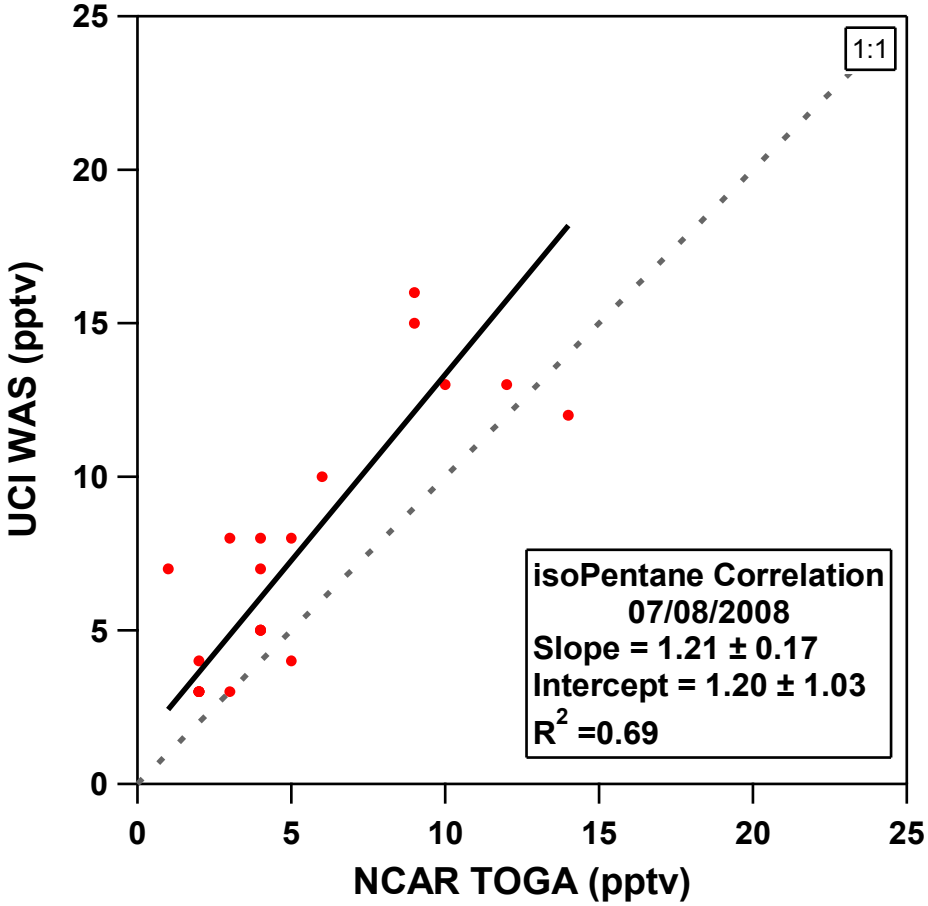

07/08/2008
UCIGC R2
NCAR TOGA R4 1/2LOD=0.5
Ethanol (pptv)
Altitude (km)
GMT
250
200
150
100
50
0
12
10
8
6
4
2
0
09:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00

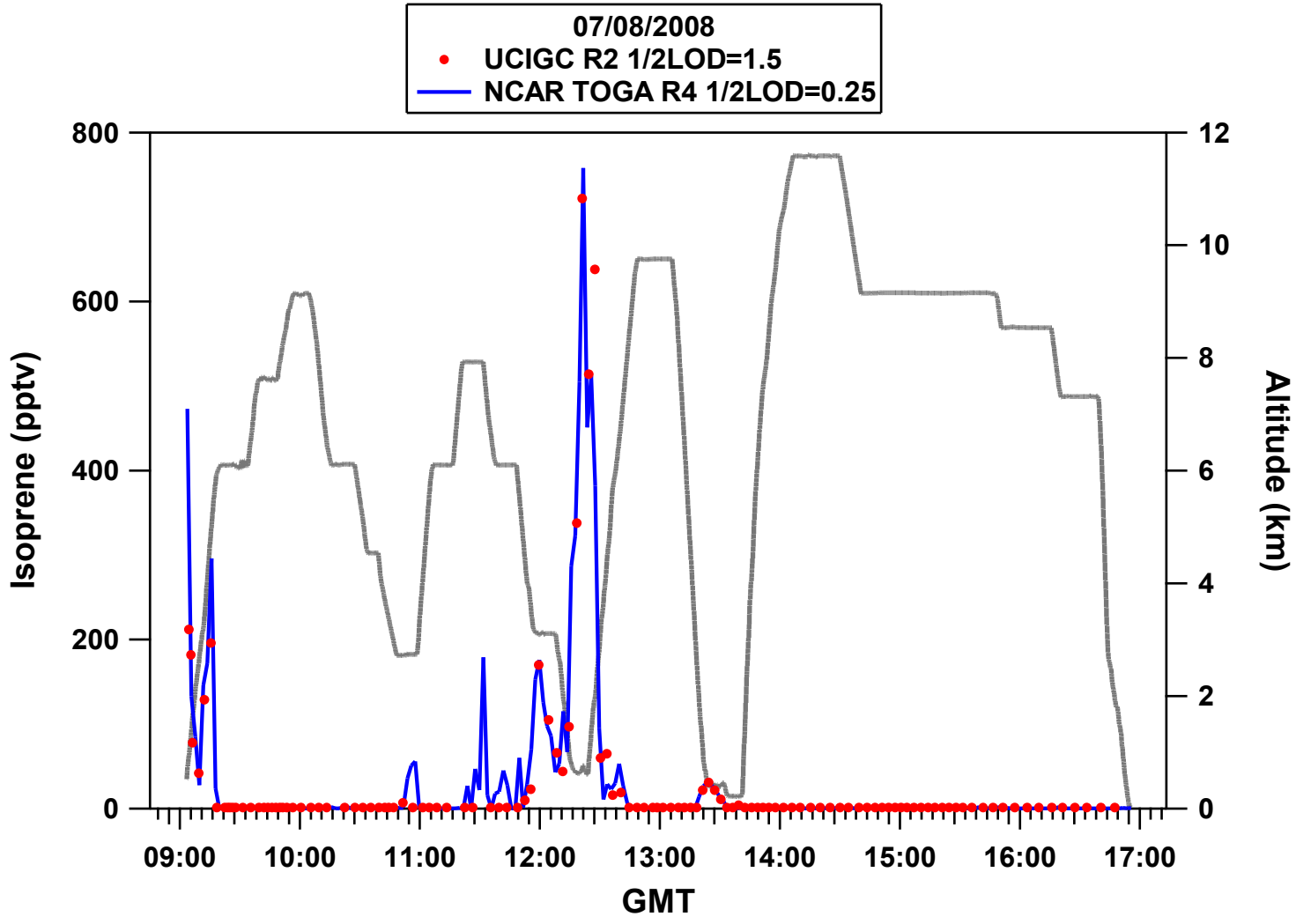

1:1
Ethanol Correlation
07/08/2008
R2 =0.34
UCI WAS (pptv)
NCAR TOGA (pptv)
0
50
100
150
200
250

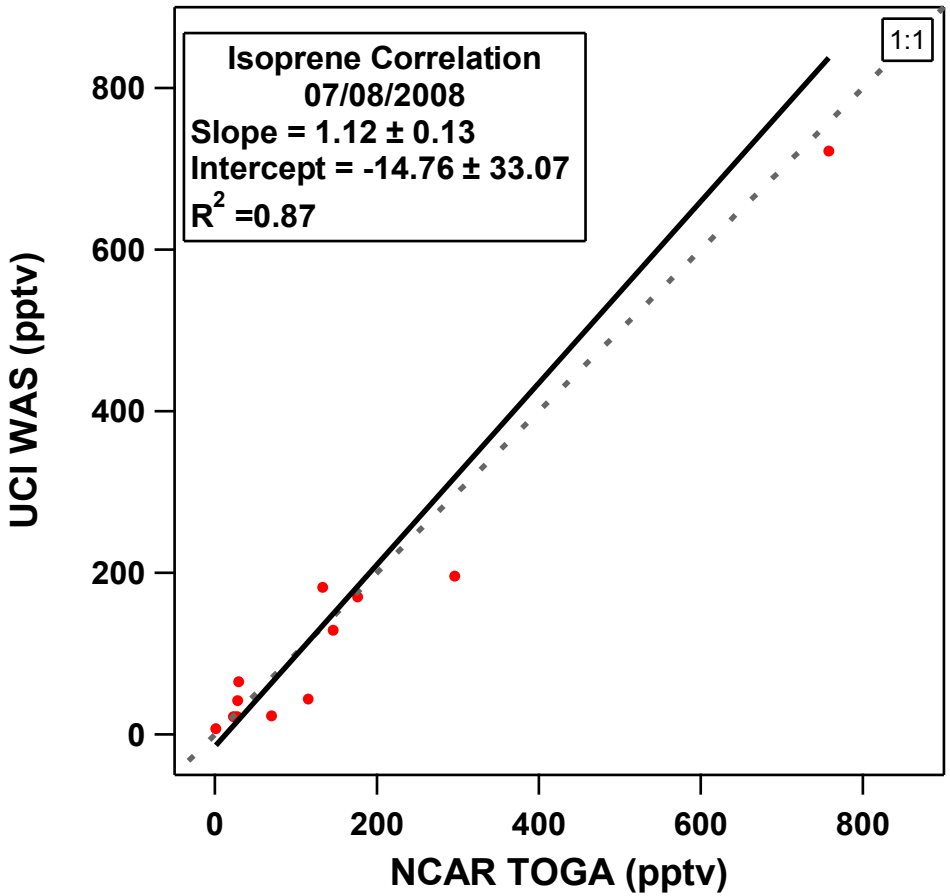

07/08/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
Isobutane (pptv)
Altitude (km)
GMT
0
10
20
30
40
0
2
4
6
8
10
12
09:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00

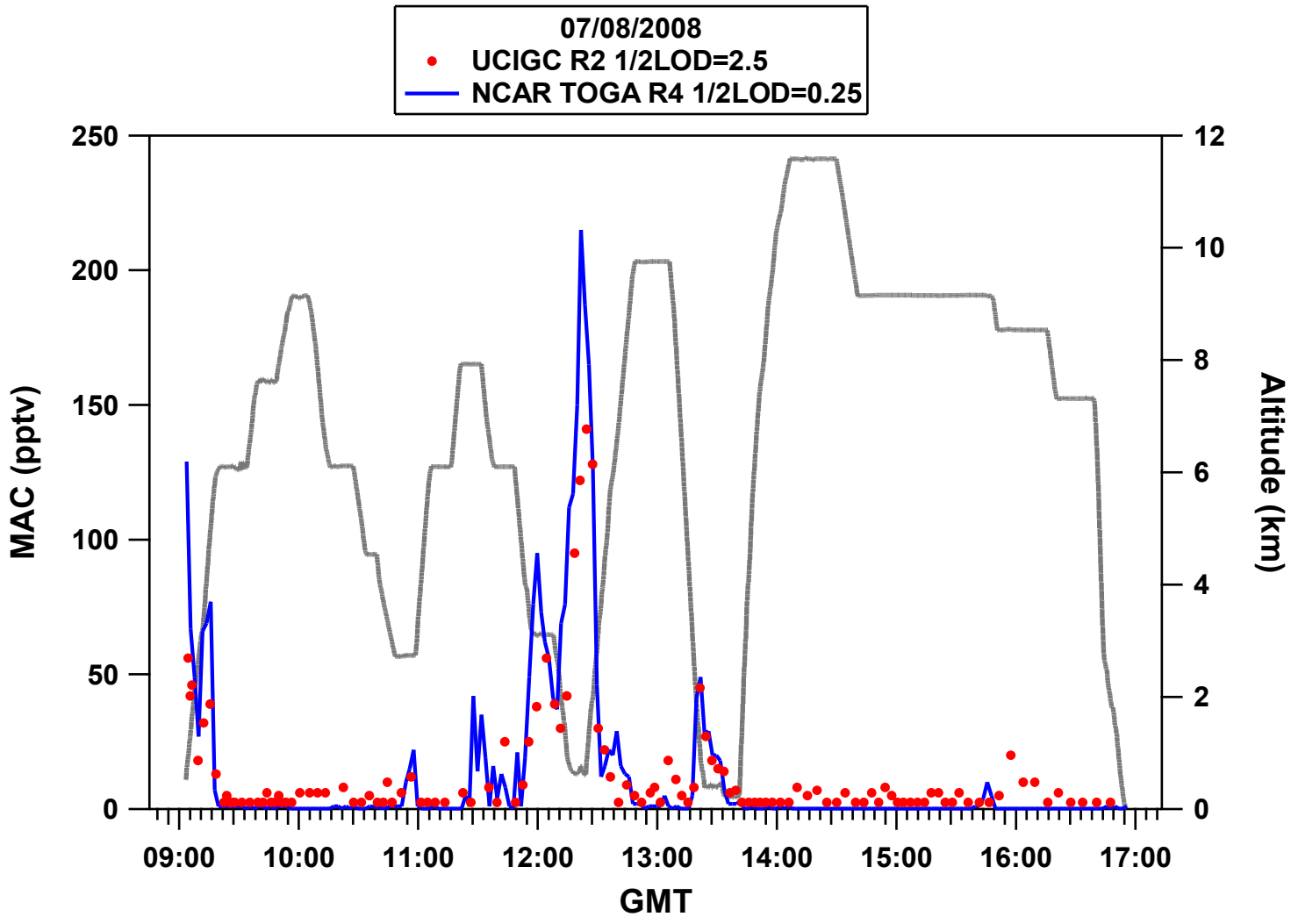

isoButane Correlation
07/08/2008
Slope = 0.96 ± 0.04
Intercept = 1.71 ± 0.50
R2 =0.89
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
0
10
20
30
40

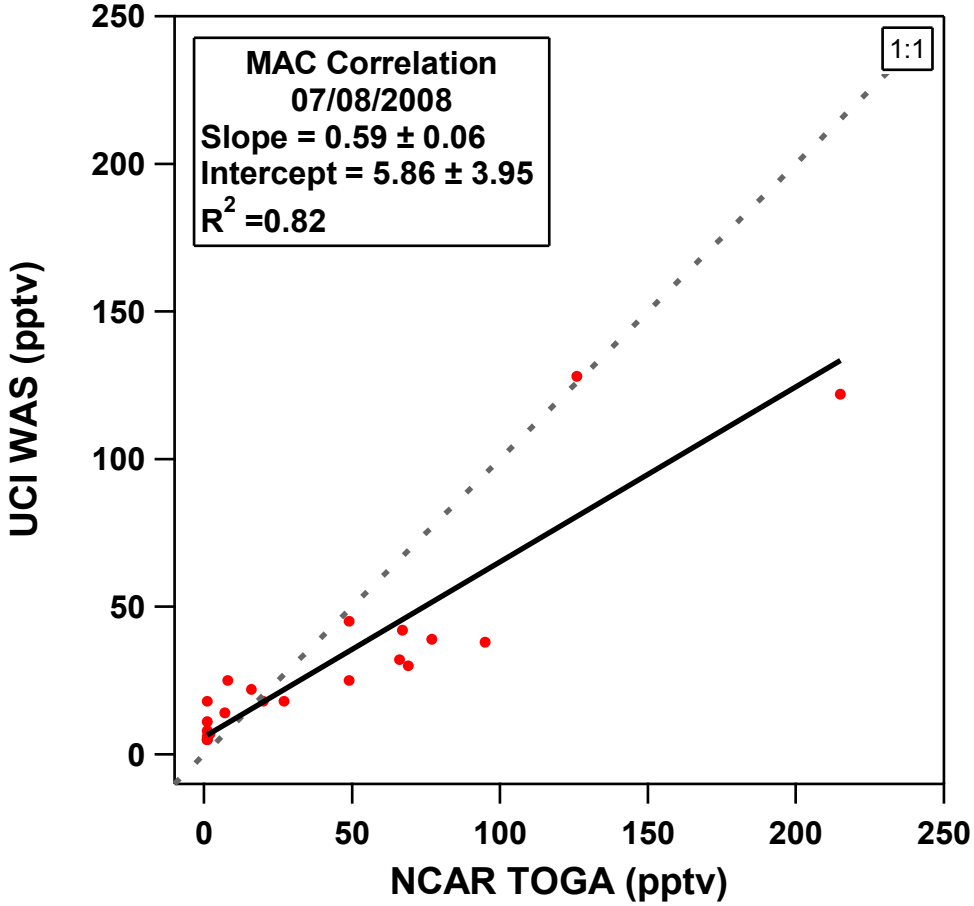

07/08/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
isopentane (pptv)
Altitude (km)
GMT
0
5
10
15
20
25
30
0
2
4
6
8
10
12
09:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00

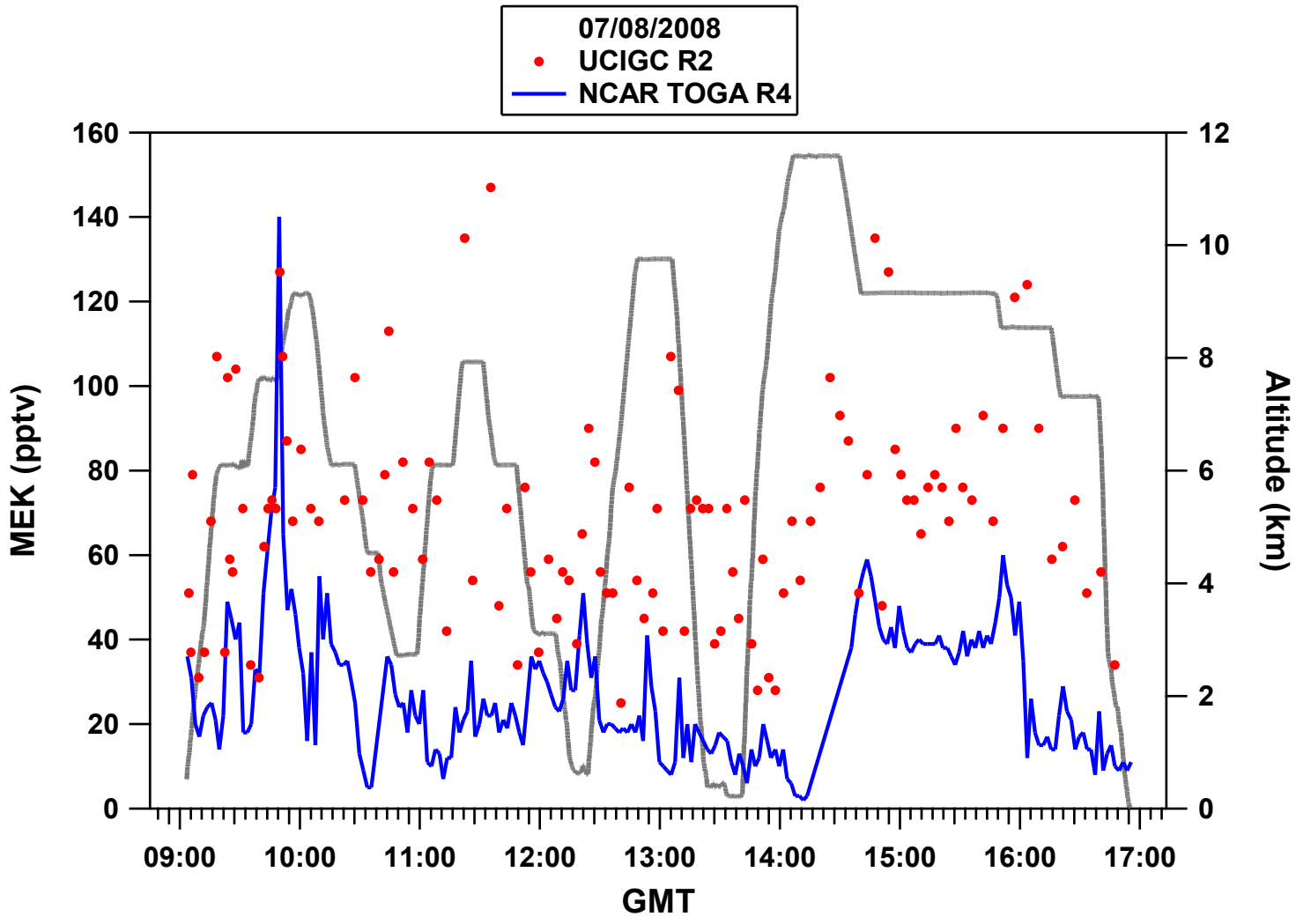

1:1
isoPentane Correlation
07/08/2008
Slope = 1.21 ± 0.17
Intercept = 1.20 ± 1.03
R2 =0.69
UCI WAS (pptv)
NCAR TOGA (pptv)
0
5
10
15
20
25

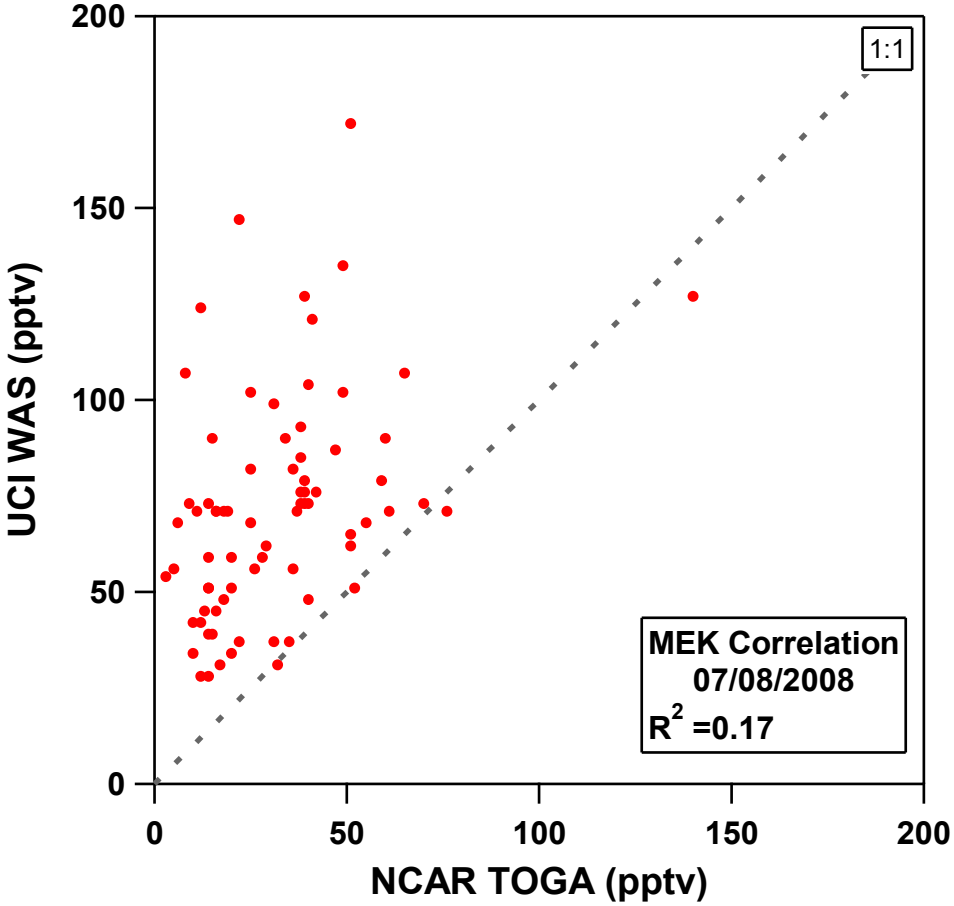

07/08/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.25
Isoprene (pptv)
Altitude (km)
GMT
800
600
400
200
0
12
10
8
6
4
2
0
09:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00

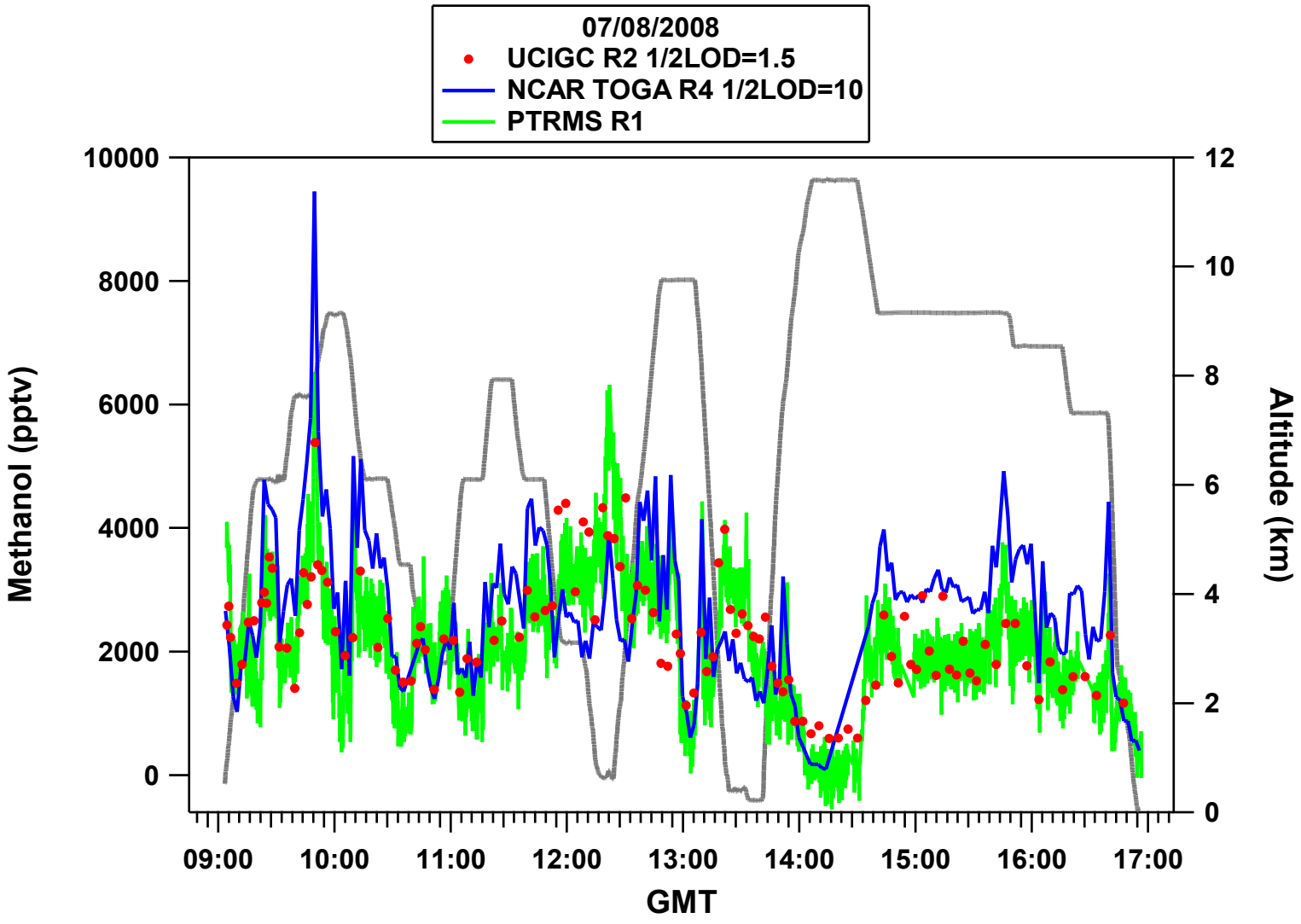

Isoprene Correlation
07/08/2008
Slope = 1.12 ± 0.13
Intercept = -14.76 ± 33.07
R2 =0.87
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
0
200
400
600
800

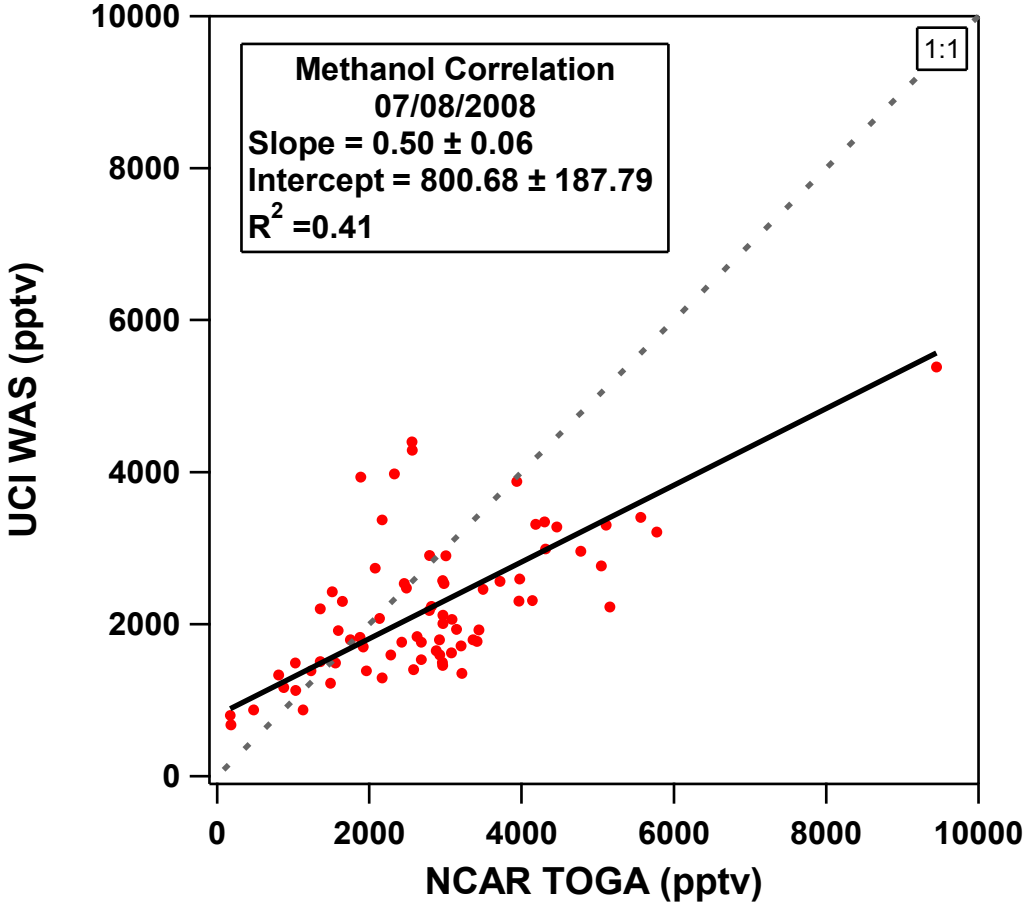

07/08/2008
UCIGC R2 1/2LOD=2.5
NCAR TOGA R4 1/2LOD=0.25
MAC (pptv)
Altitude (km)
GMT
250
200
150
100
50
0
12
10
8
6
4
2
0
09:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00

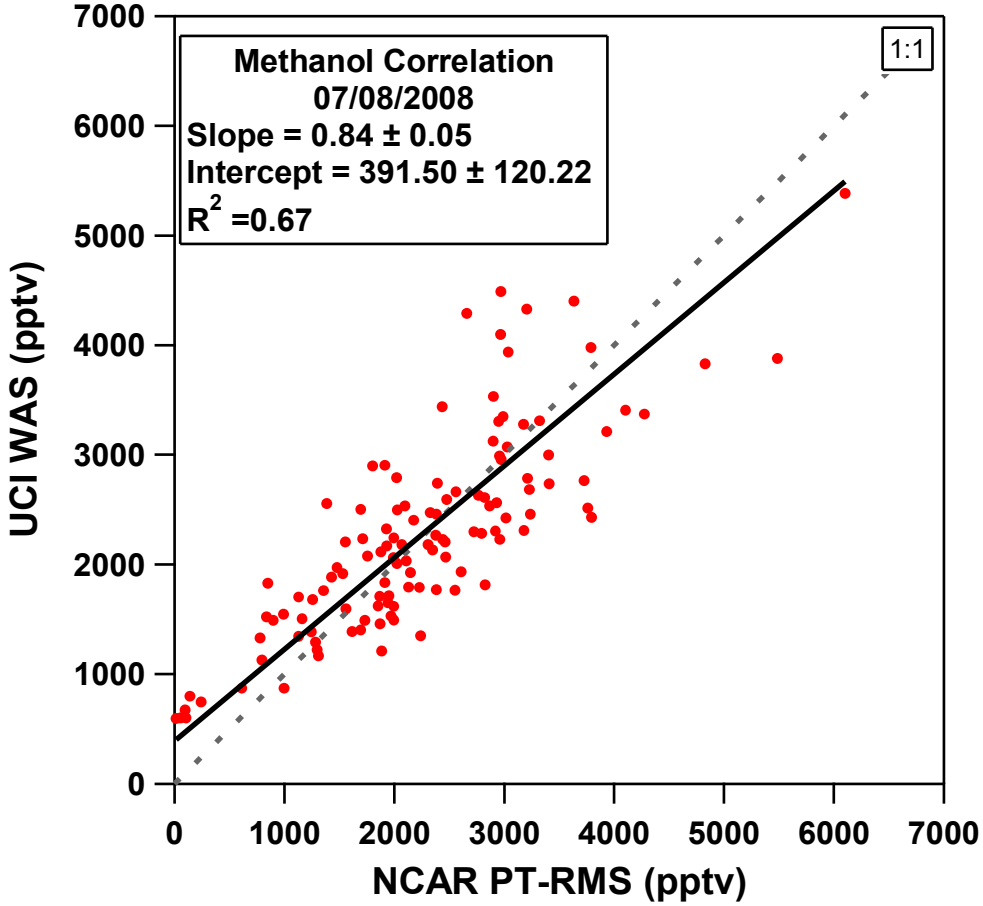

MAC Correlation
07/08/2008
Slope = 0.59 ± 0.06
Intercept = 5.86 ± 3.95
R2 =0.82
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
0
50
100
150
200
250

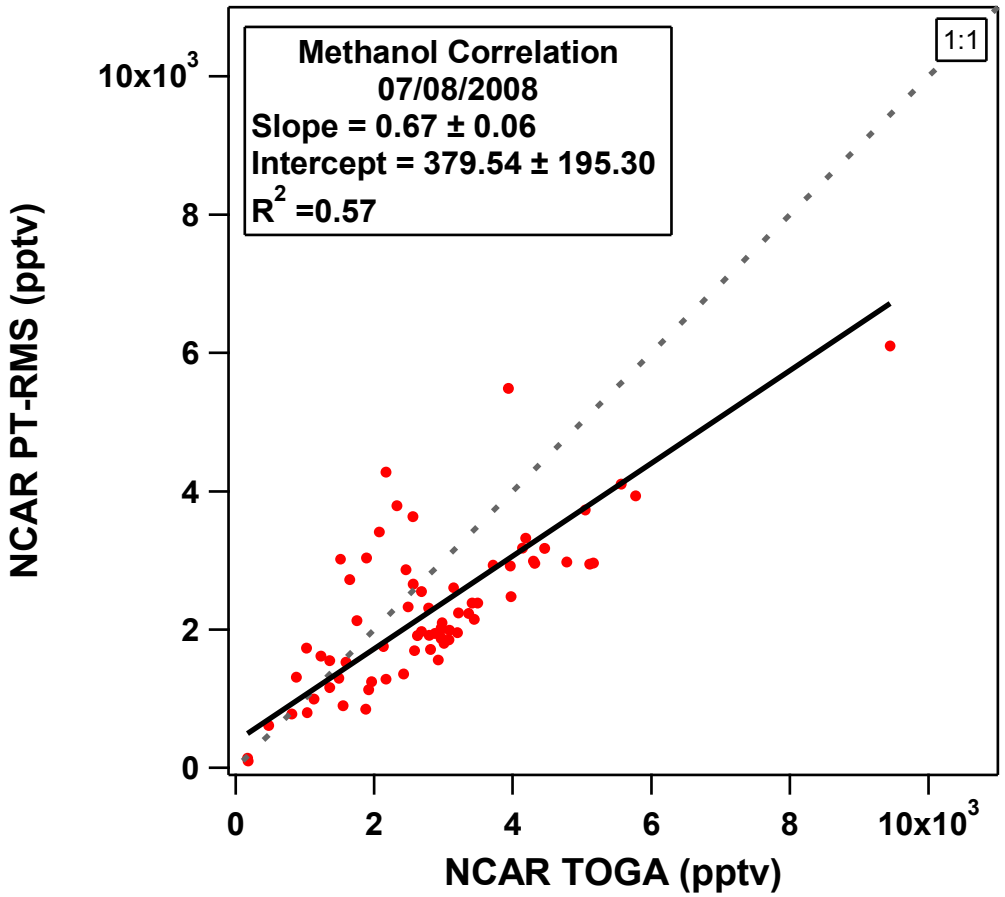

07/08/2008
UCIGC R2
NCAR TOGA R4
MEK (pptv)
Altitude (km)
GMT
0
20
40
60
80
100
120
140
160
0
2
4
6
8
10
12
09:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00

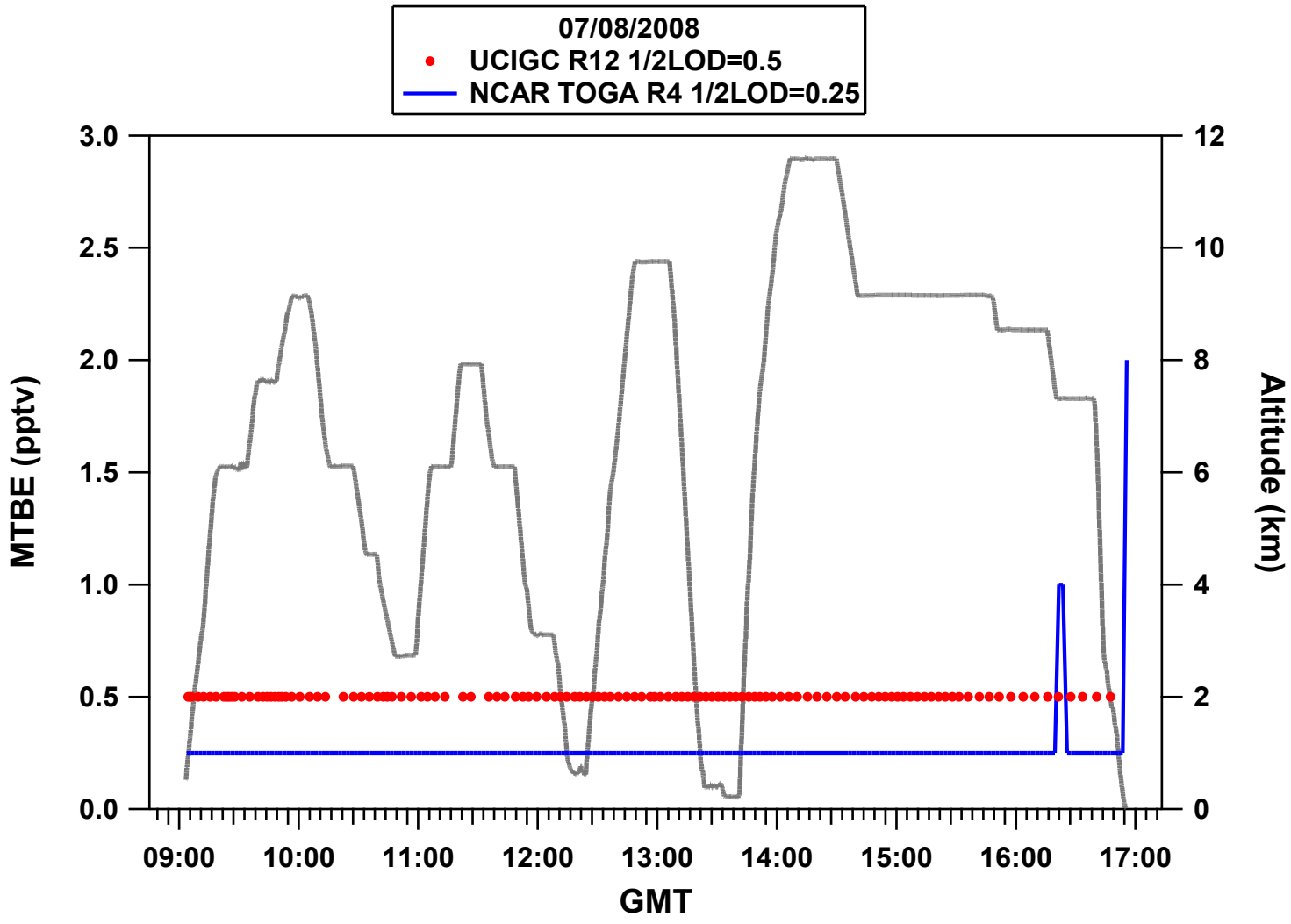

200
150
100
50
0
UCI WAS (pptv)
0
50
100
150
200
NCAR TOGA (pptv)
1:1
MEK Correlation
07/08/2008
R2 =0.17

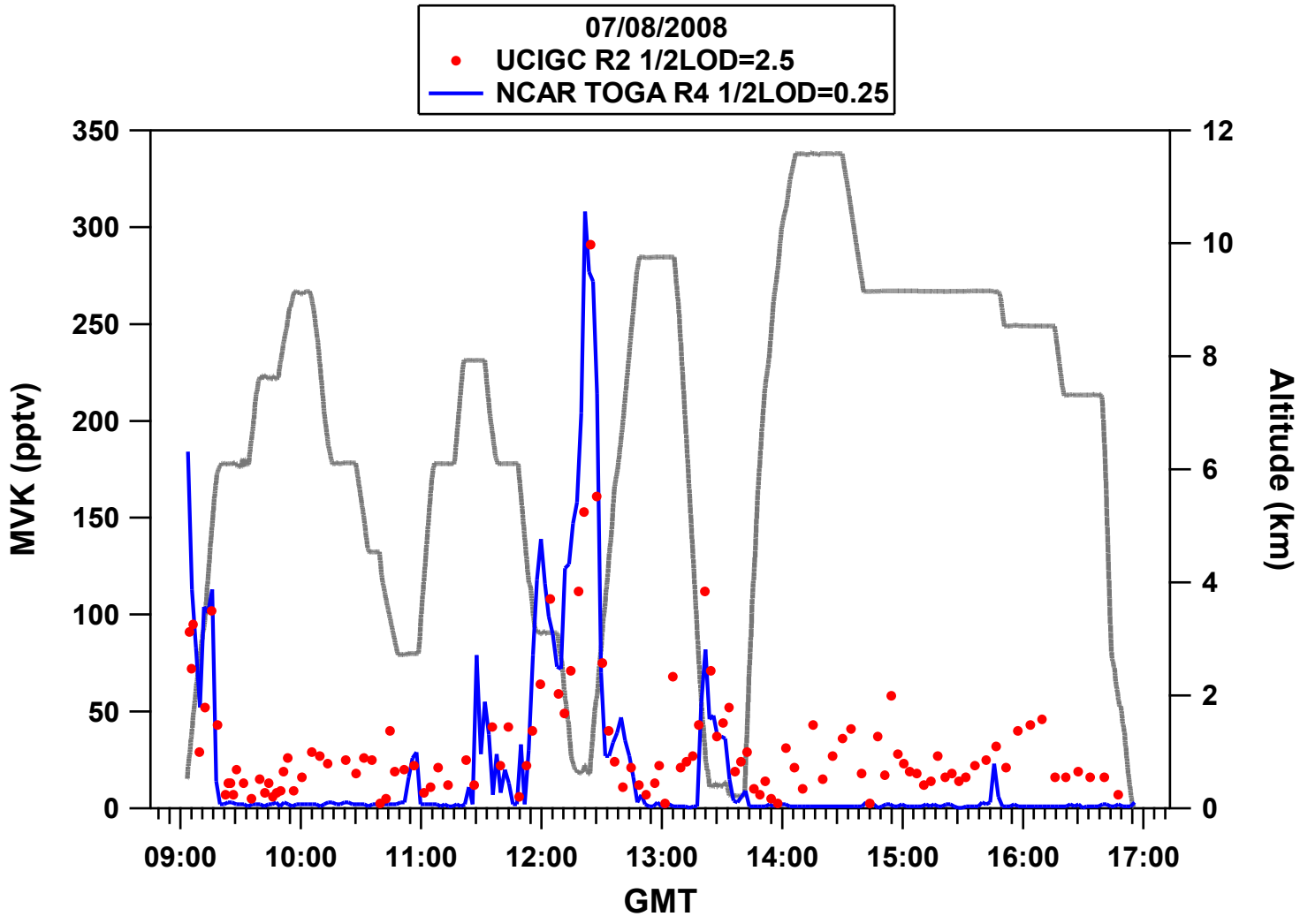

07/08/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=10
PTRMS R1
Methanol (pptv)
Altitude (km)
GMT
10000
8000
6000
4000
2000
0
12
10
8
6
4
2
0
09:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00

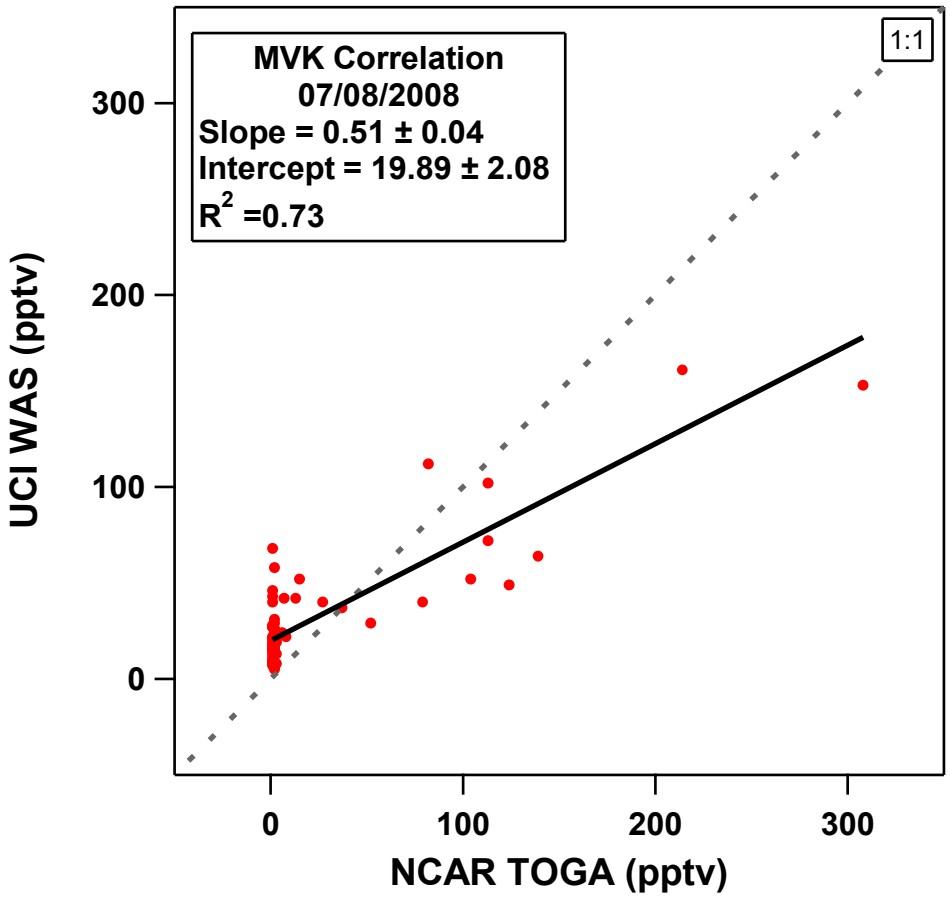

Methanol Correlation
07/08/2008
Slope = 0.50 ± 0.06
Intercept = 800.68 ± 187.79
R2 =0.41
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
0
2000
4000
6000
8000
10000

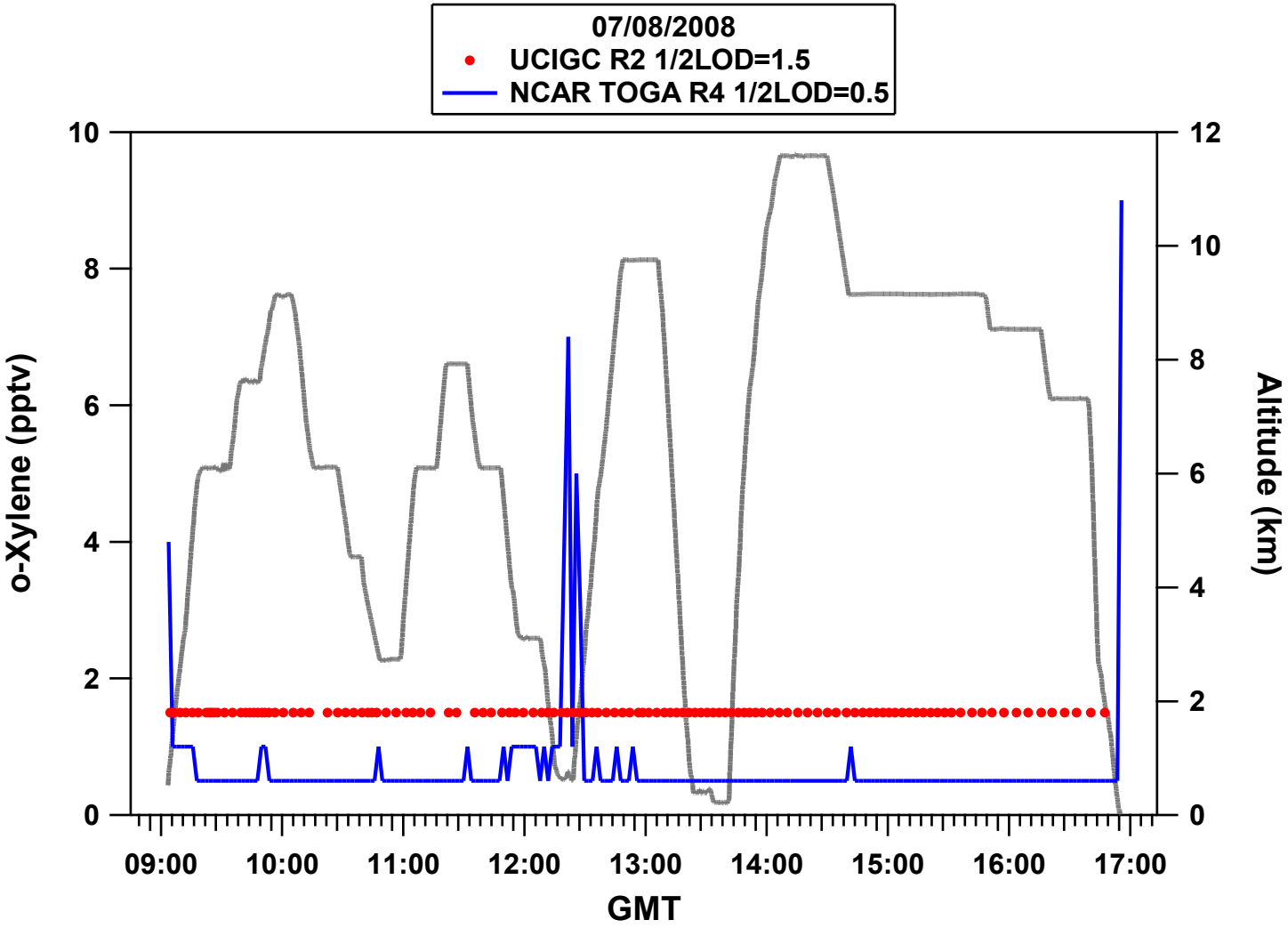

Methanol Correlation
07/08/2008
Slope = 0.84 ± 0.05
Intercept = 391.50 ± 120.22
R2 =0.67
1:1
UCI WAS (pptv)
NCAR PT-RMS (pptv)
0
1000
2000
3000
4000
5000
6000
7000

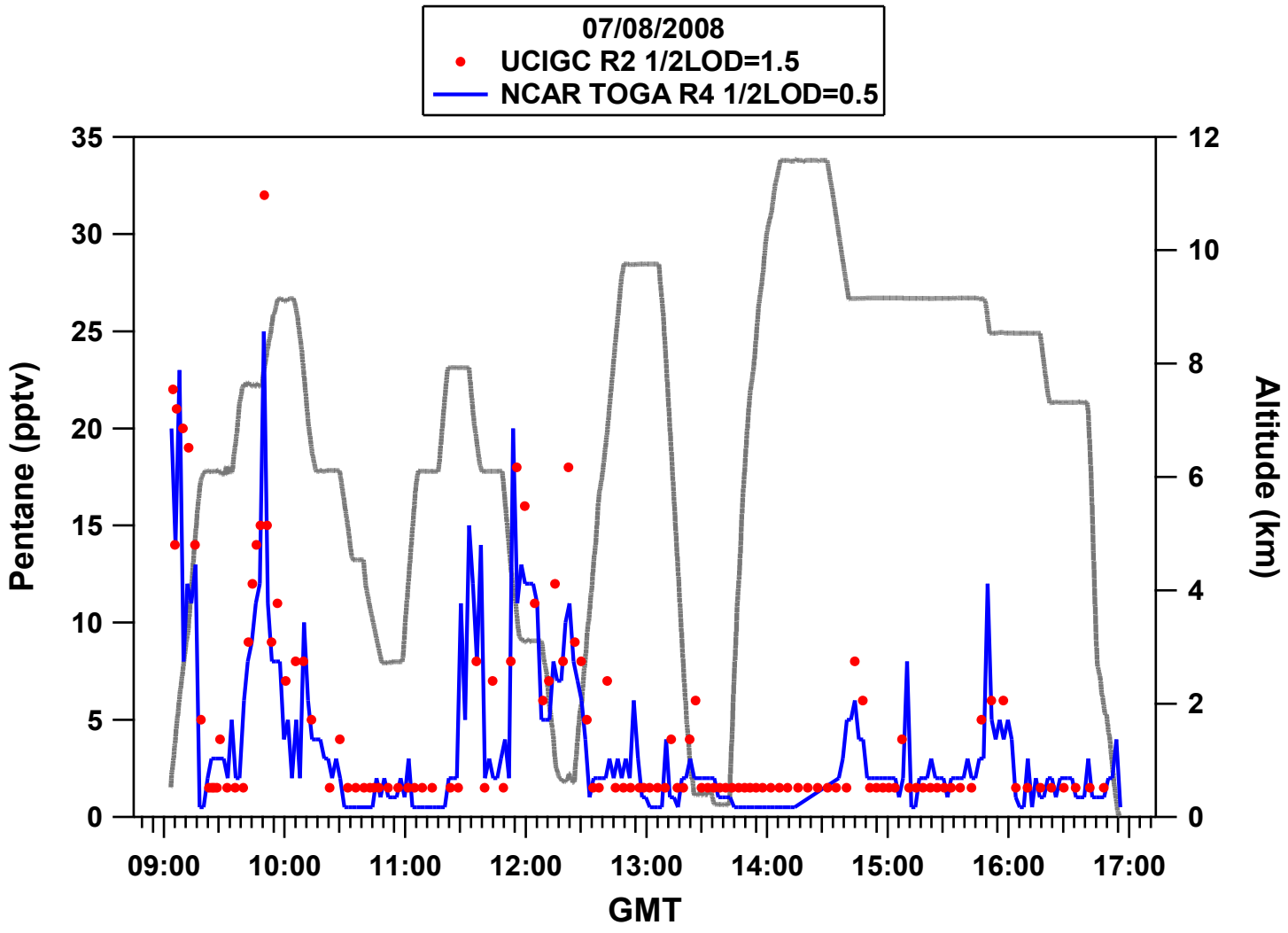

Methanol Correlation
07/08/2008
Slope = 0.67 ± 0.06
Intercept = 379.54 ± 195.30
R2 =0.57
1:1
NCAR PT-RMS (pptv)
NCAR TOGA (pptv)
0
2
4
6
8
10x10^3

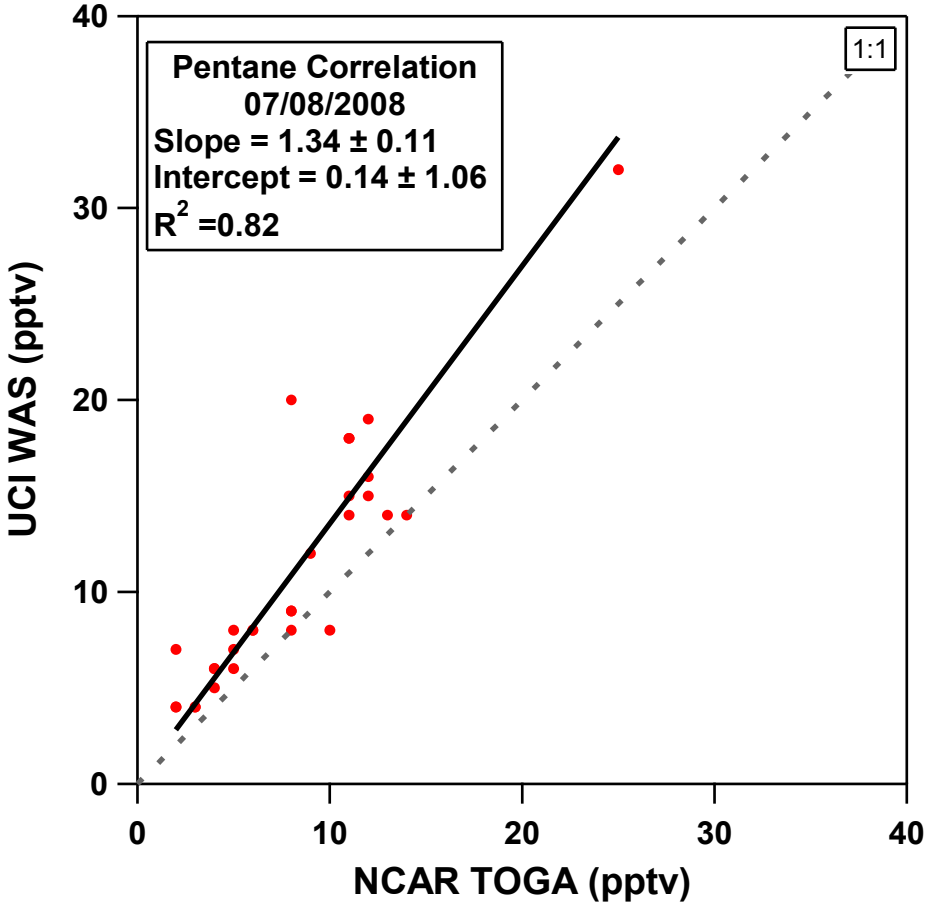

07/08/2008
UCIGC R12 1/2LOD=0.5
NCAR TOGA R4 1/2LOD=0.25
MTBE (pptv)
Altitude (km)
GMT
3.0
2.5
2.0
1.5
1.0
0.5
0.0
12
10
8
6
4
2
0
09:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00

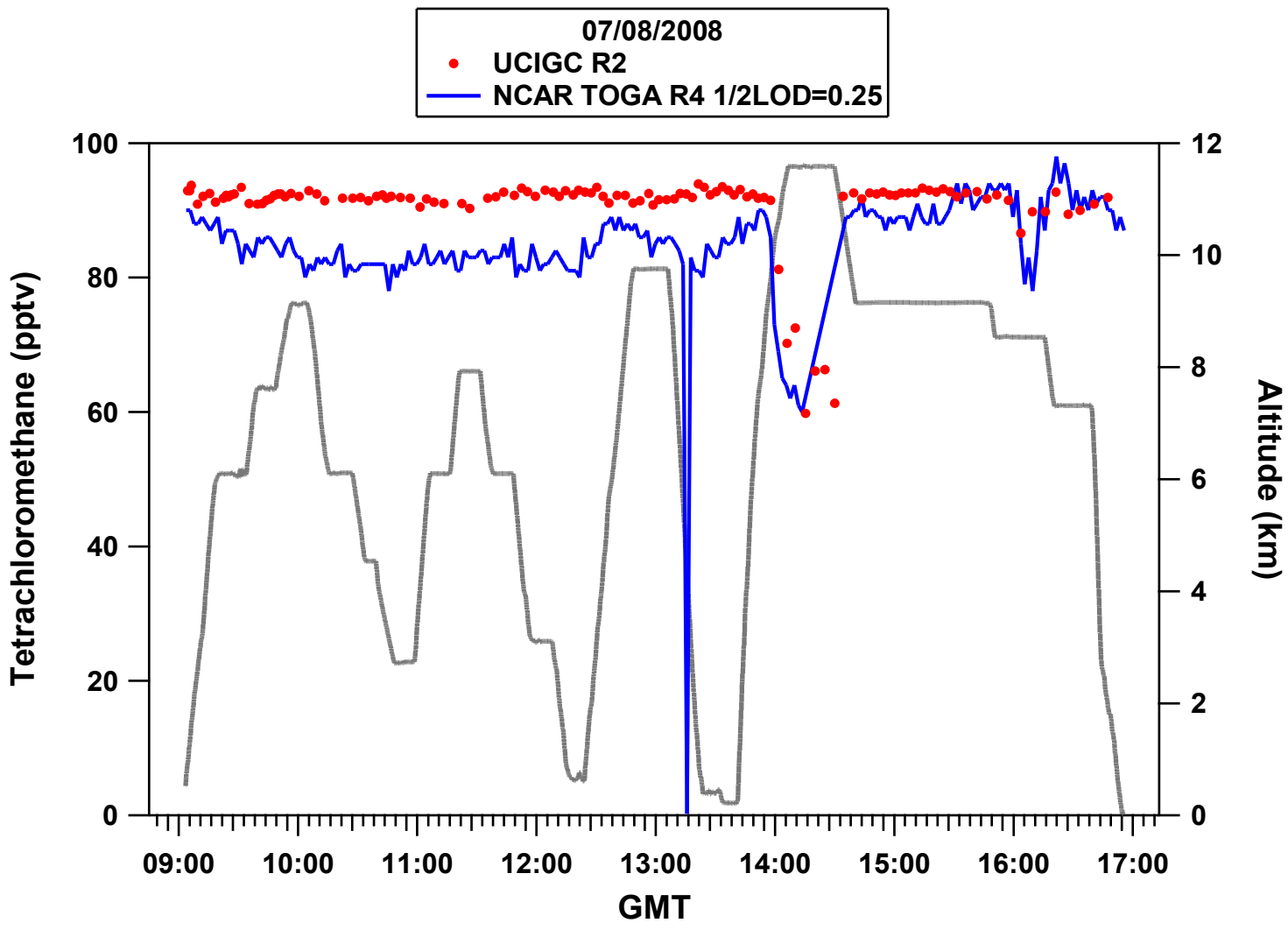

07/08/2008
UCIGC R2 1/2LOD=2.5
NCAR TOGA R4 1/2LOD=0.25
MVK (pptv)
Altitude (km)
GMT
350
300
250
200
150
100
50
0
12
10
8
6
4
2
0
09:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00

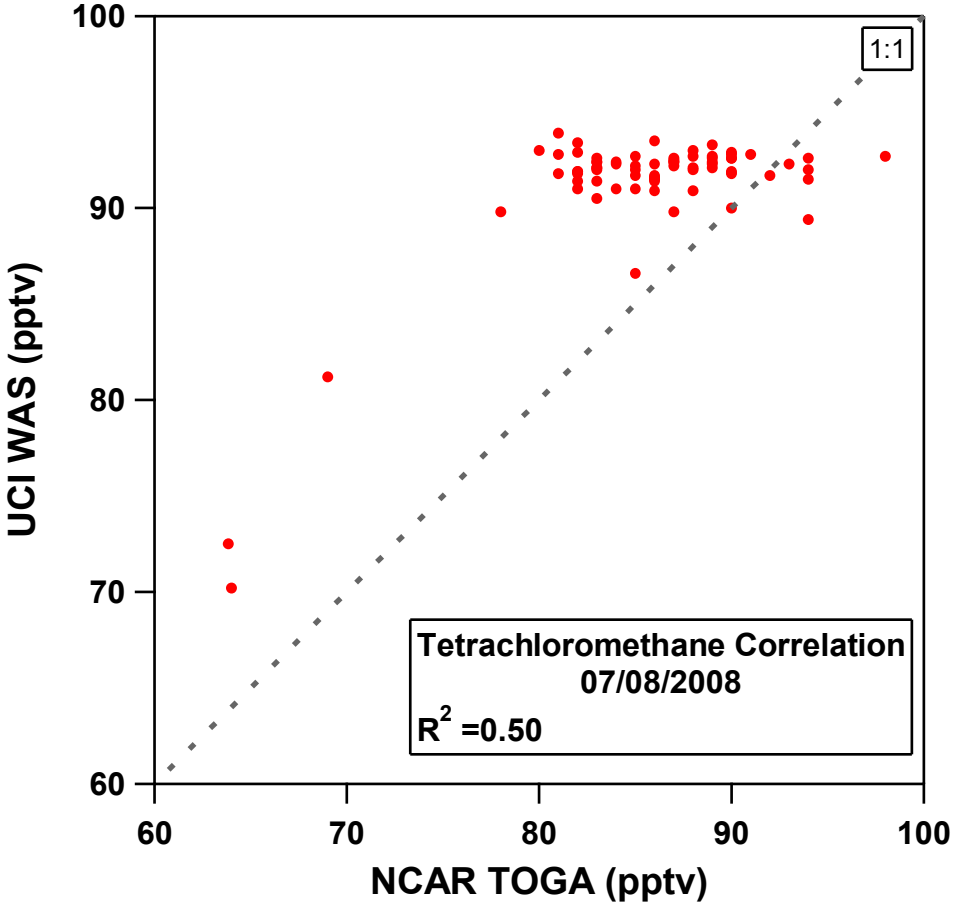

MVK Correlation
07/08/2008
Slope = 0.51 ± 0.04
Intercept = 19.89 ± 2.08
R2 =0.73
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
300
200
100
0
0
100
200
300

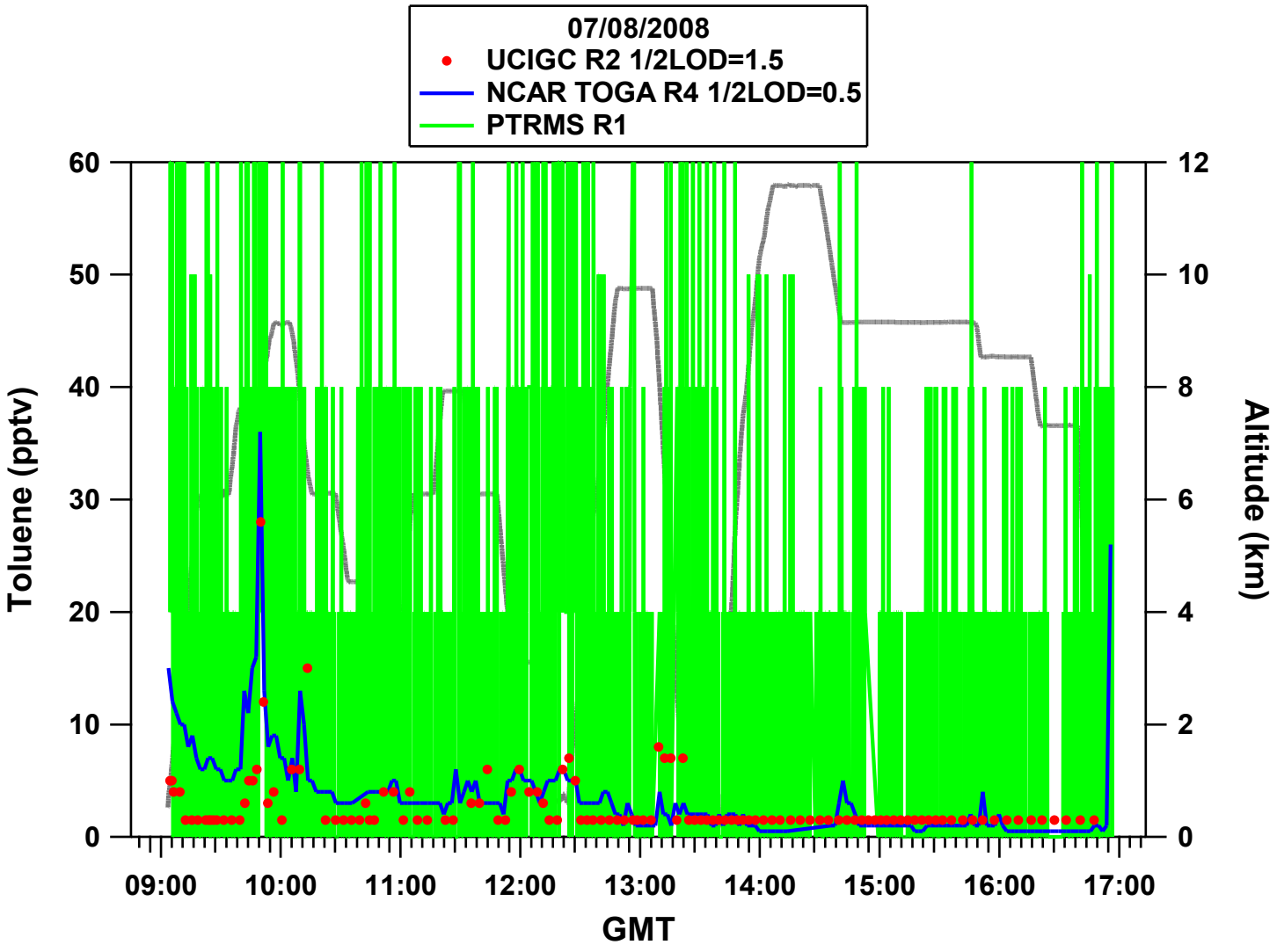

07/08/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
o-Xylene (pptv)
Altitude (km)
GMT
0
2
4
6
8
10
12
09:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00

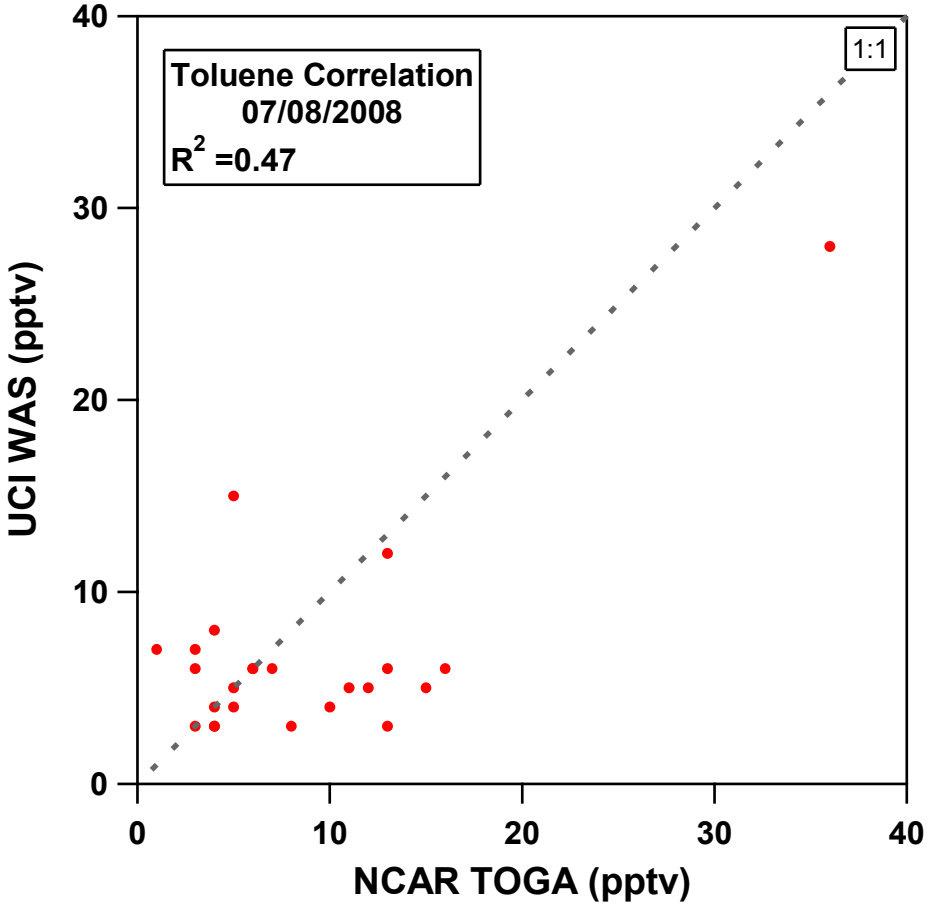

07/08/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
Pentane (pptv)
Altitude (km)
GMT
0
5
10
15
20
25
30
35
0
2
4
6
8
10
12
09:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00

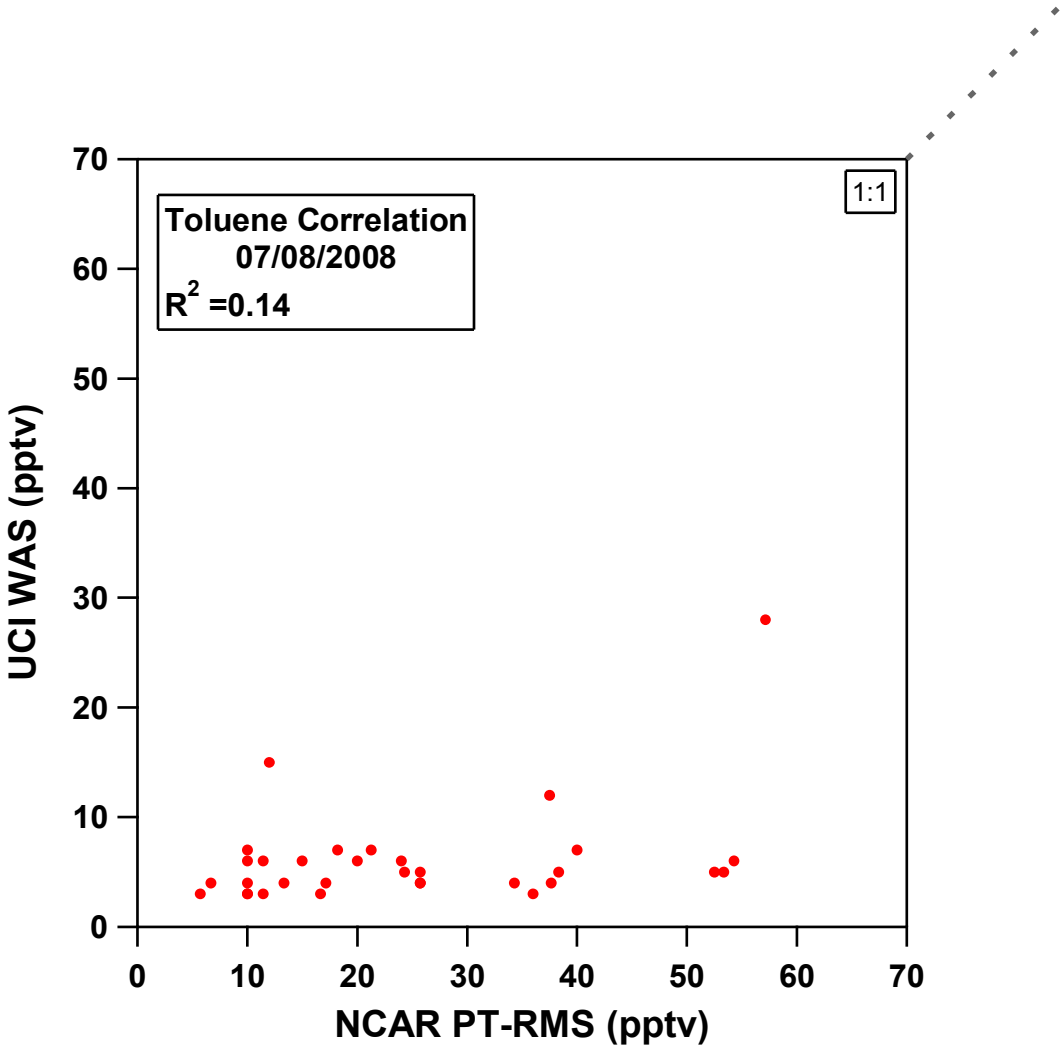

Pentane Correlation
07/08/2008
Slope = 1.34 ± 0.11
Intercept = 0.14 ± 1.06
R2 =0.82
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
0
10
20
30
40

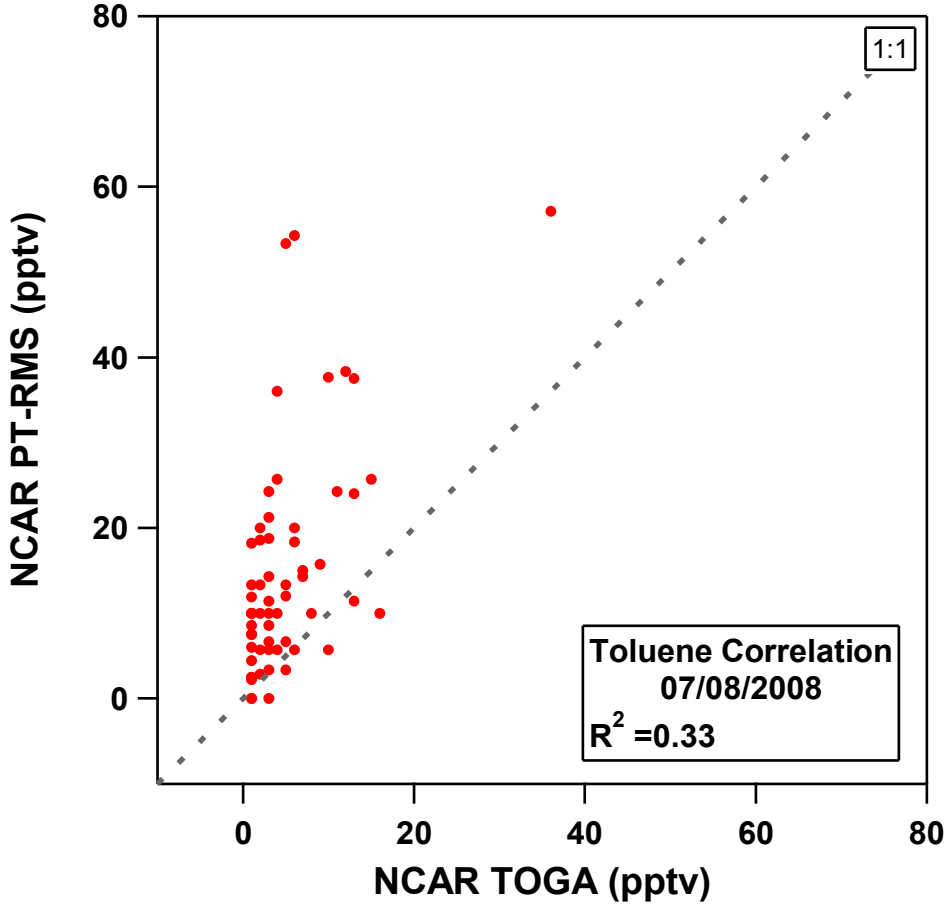

07/08/2008
UCIGC R2
NCAR TOGA R4 1/2LOD=0.25
Tetrachloromethane (pptv)
Altitude (km)
GMT
100
80
60
40
20
0
12
10
8
6
4
2
0
09:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00


1:1
Tetrachloromethane Correlation
07/08/2008
R2 =0.50
UCI WAS (pptv)
NCAR TOGA (pptv)
100
90
80
70
60
60
70
80
90
100


07/08/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
PTRMS R1
Toluene (pptv)
Altitude (km)
GMT
0
10
20
30
40
50
60
0
2
4
6
8
10
12
09:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00


Toluene Correlation
07/08/2008
R2 =0.47
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
0
10
20
30
40
0
10
20
30
40


Toluene Correlation
07/08/2008
R2 =0.14
1:1
UCI WAS (pptv)
NCAR PT-RMS (pptv)
0
10
20
30
40
50
60
70


80
60
40
20
0
NCAR PT-RMS (pptv)
0
20
40
60
80
NCAR TOGA (pptv)
1:1
Toluene Correlation
07/08/2008
R2 =0.33