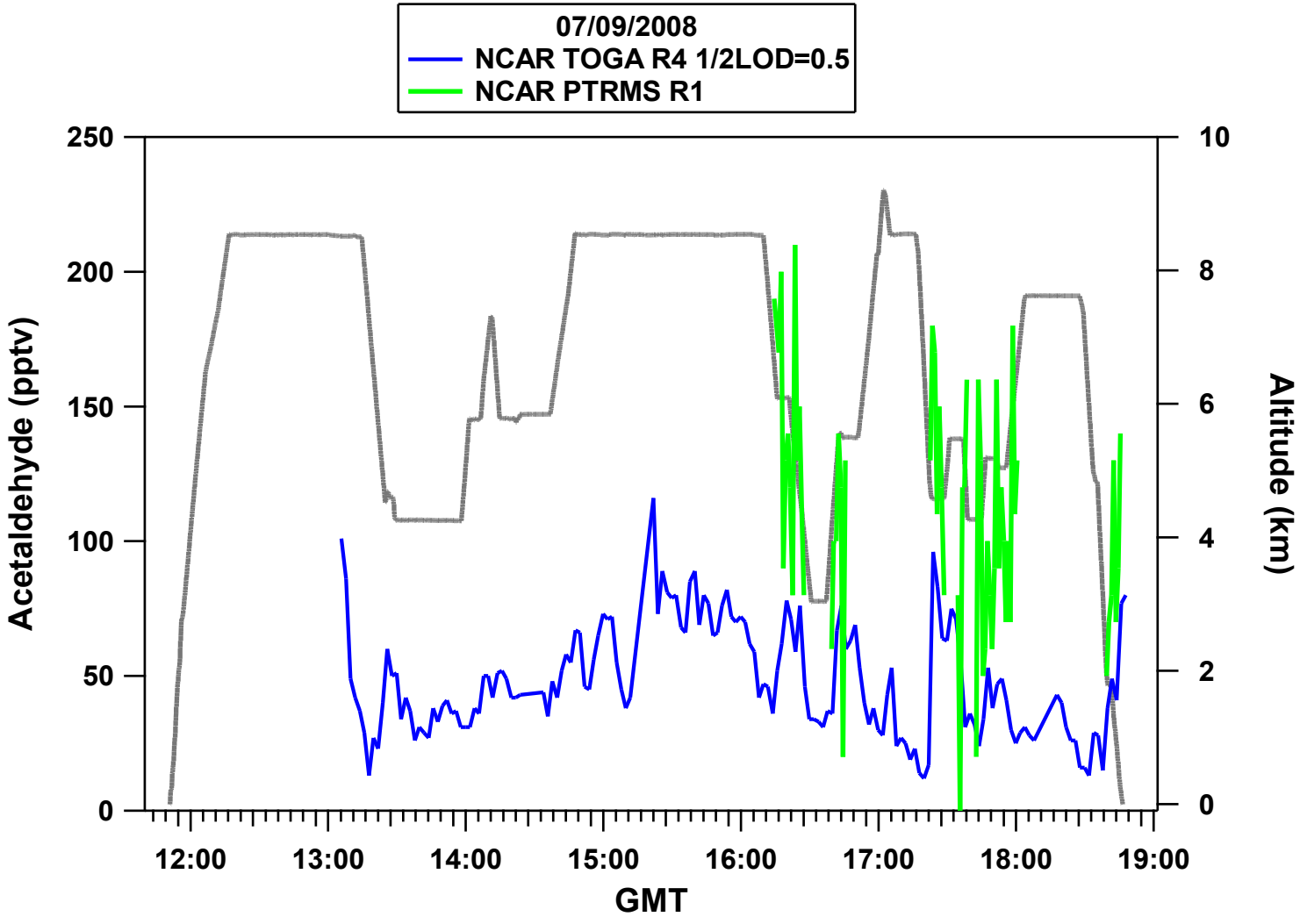
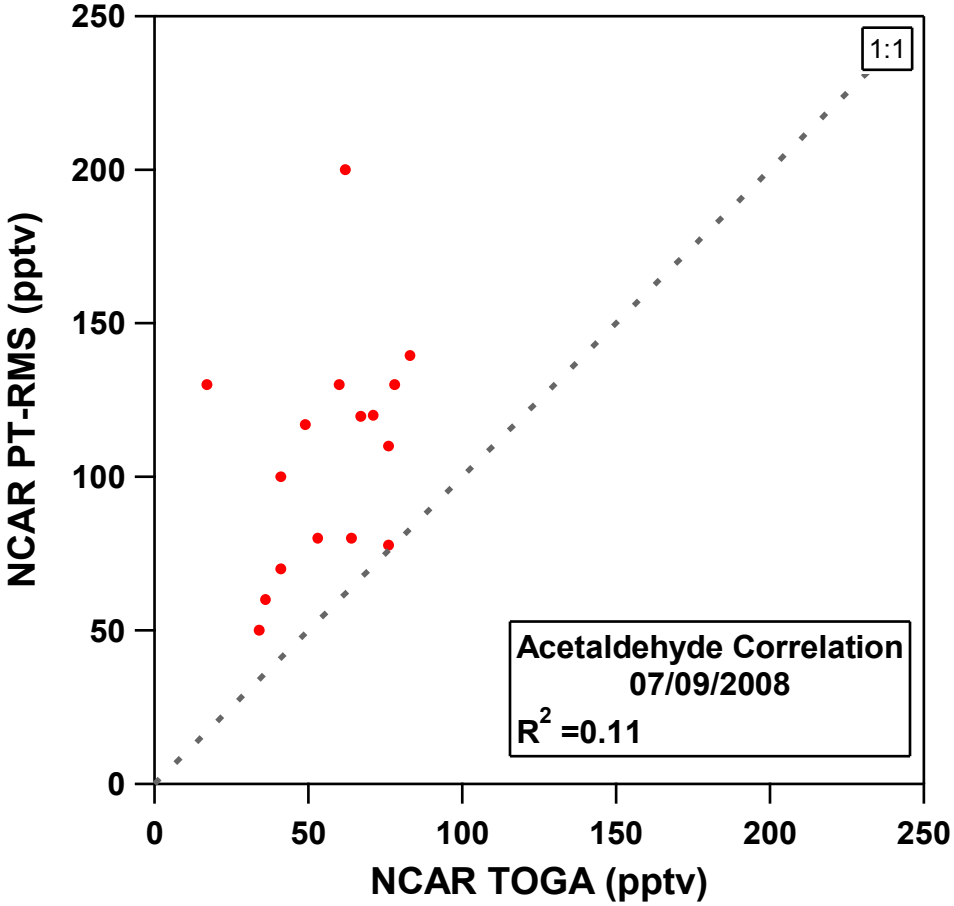
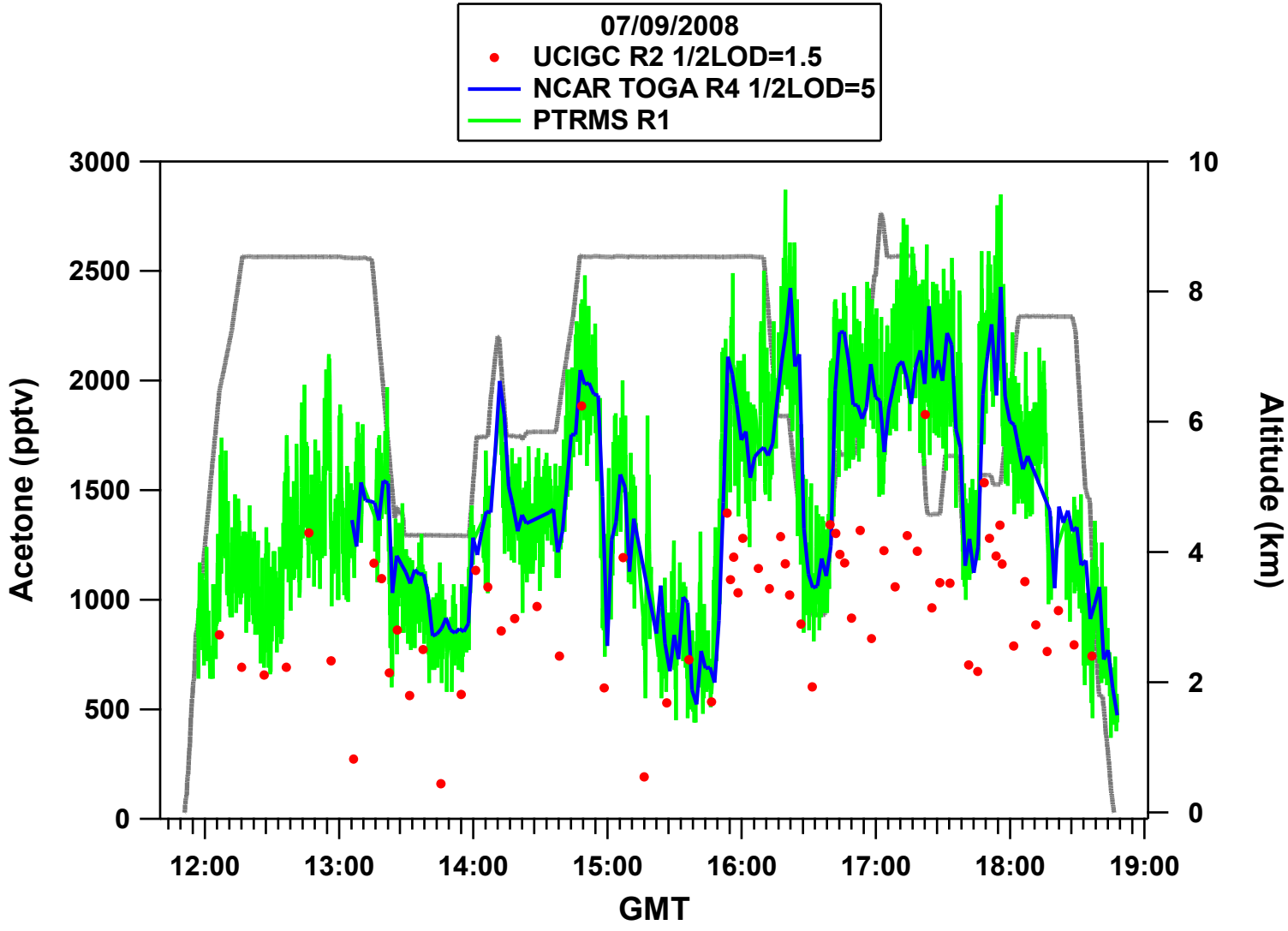
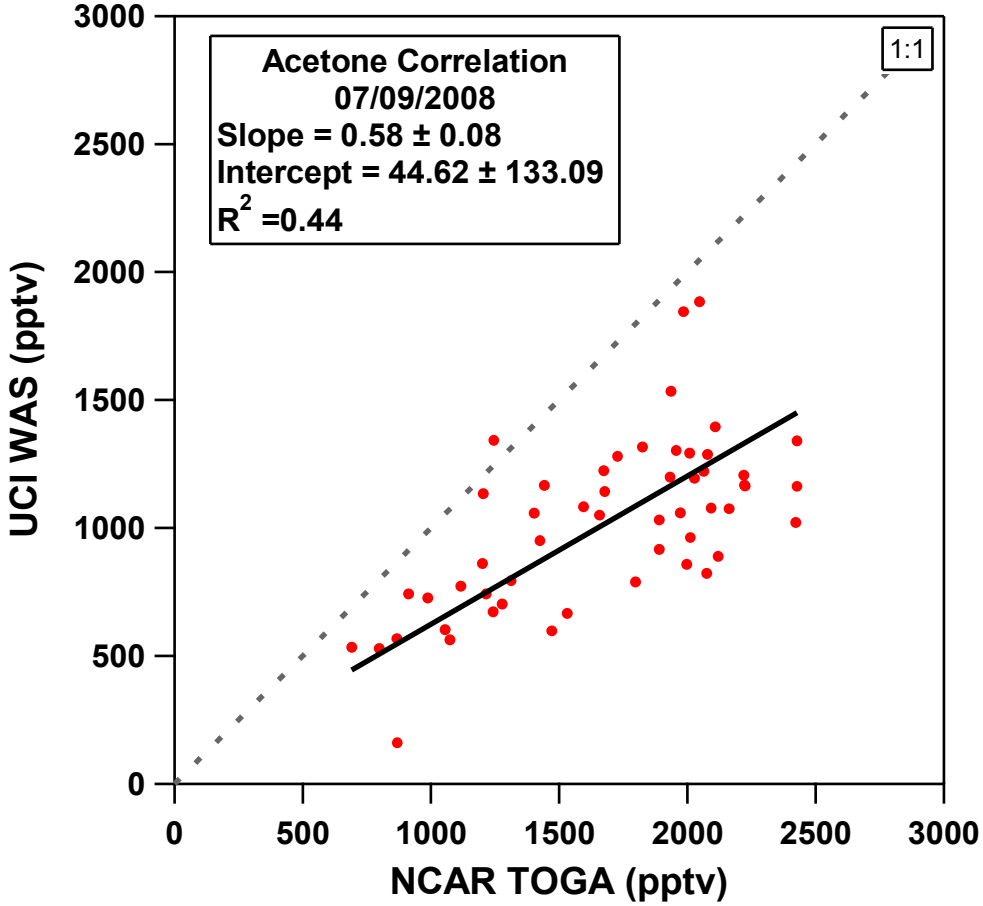
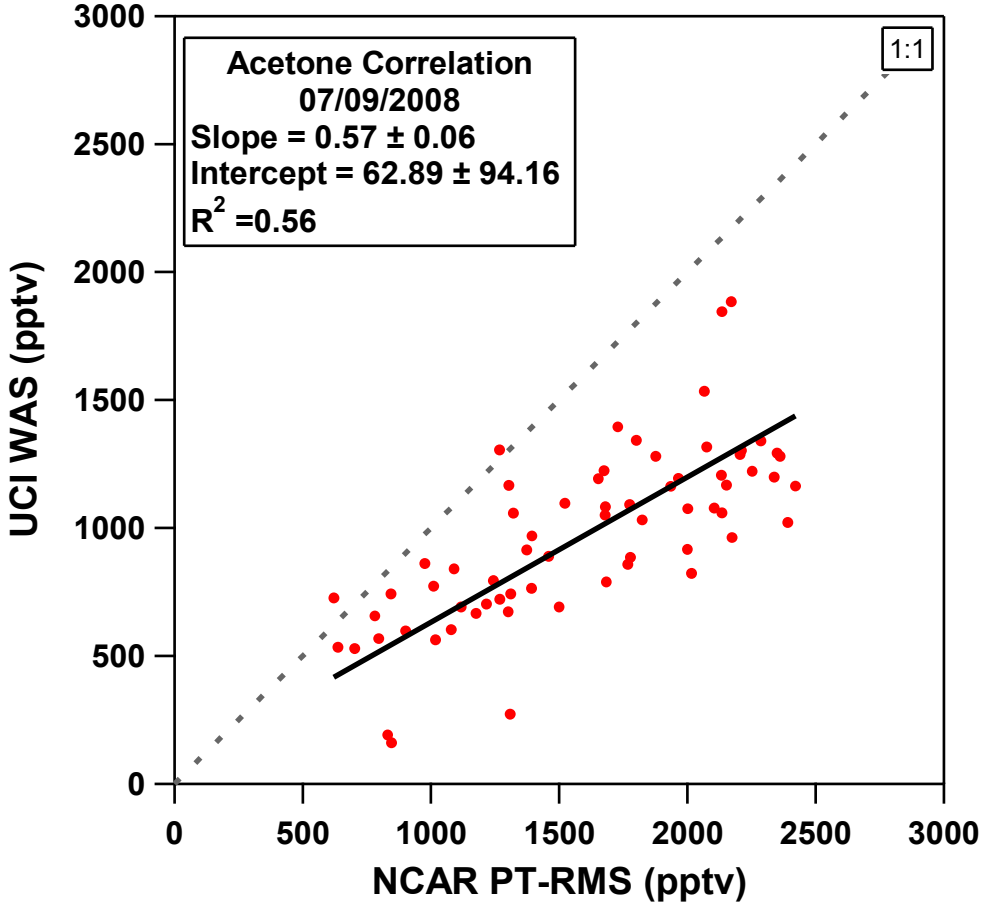
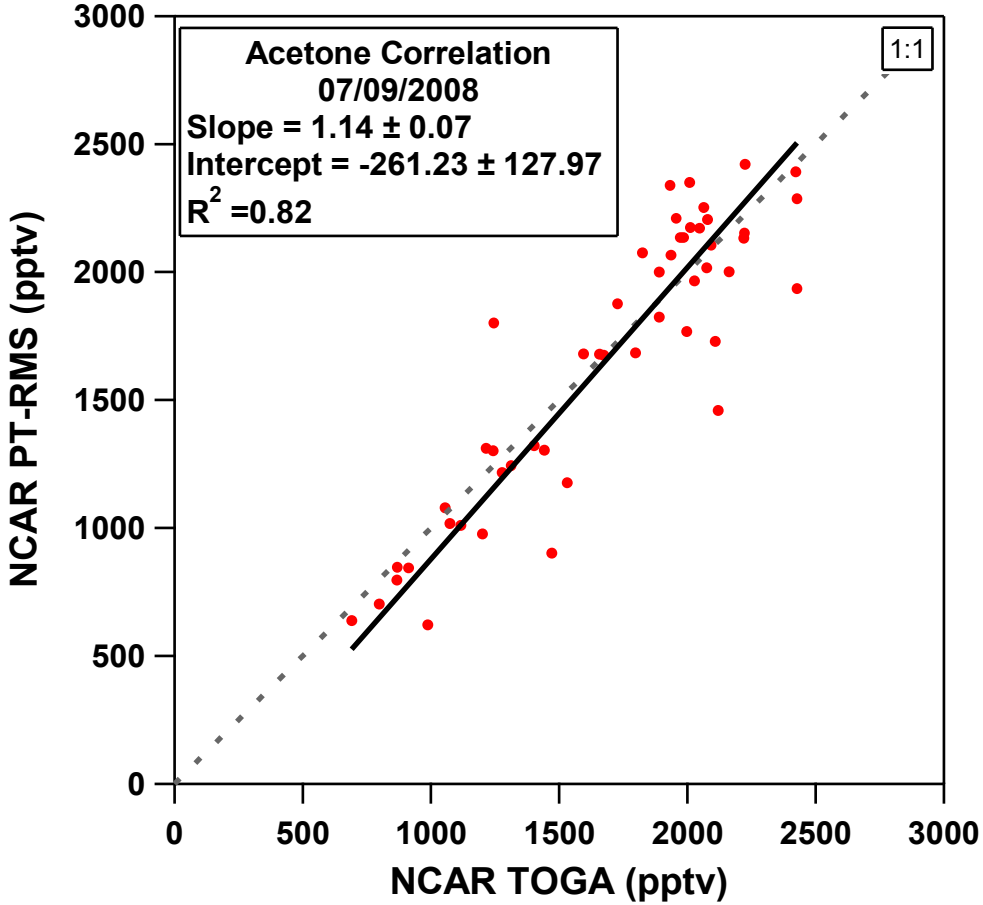

07/09/2008
NCAR TOGA R4 1/2LOD=0.5
NCAR PTRMS R1
Acetaldehyde (pptv)
Altitude (km)
GMT
250
200
150
100
50
0
10
8
6
4
2
0
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00

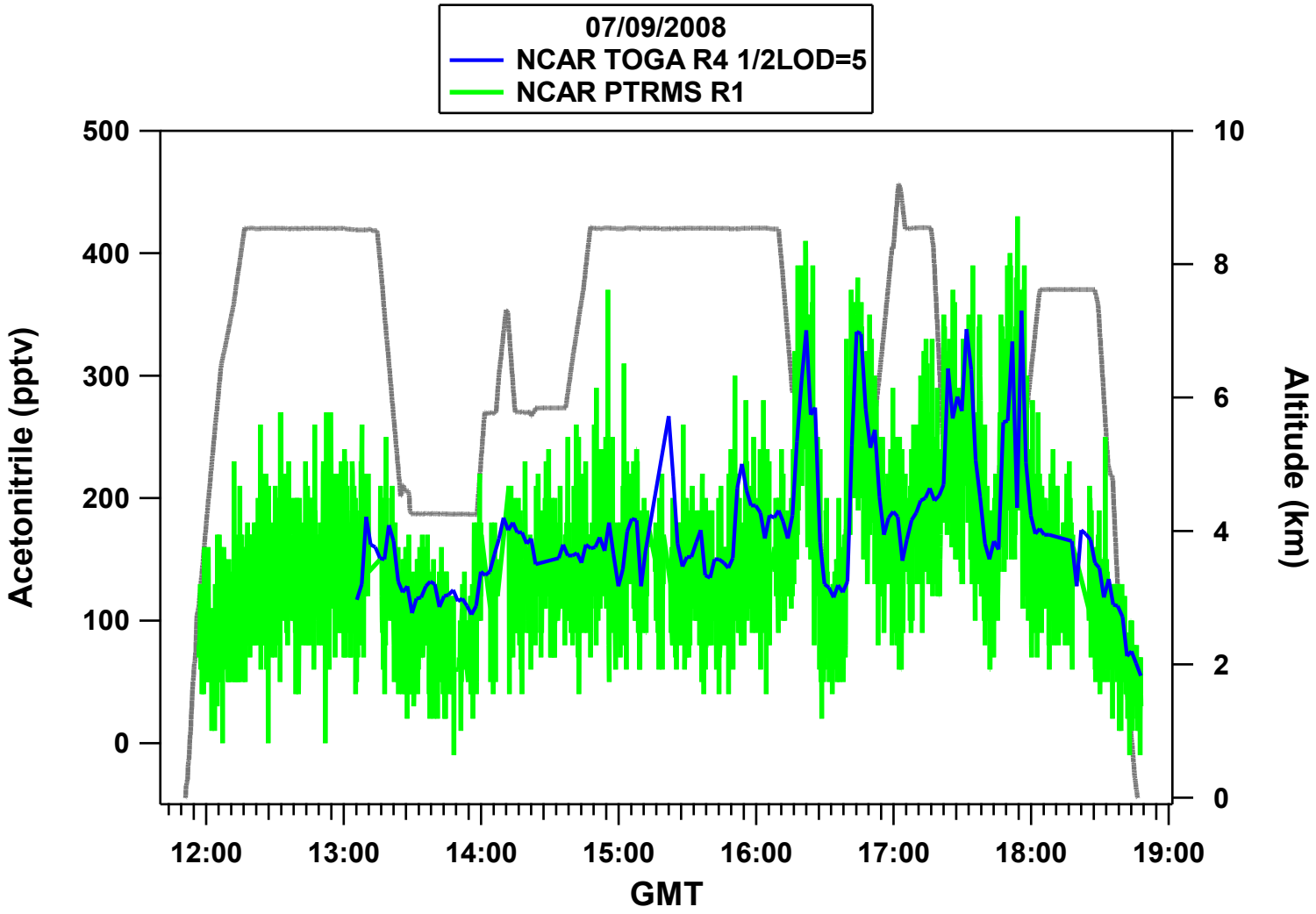

1:1
Acetaldehyde Correlation
07/09/2008
R2 =0.11
NCAR PT-RMS (pptv)
NCAR TOGA (pptv)
0
50
100
150
200
250

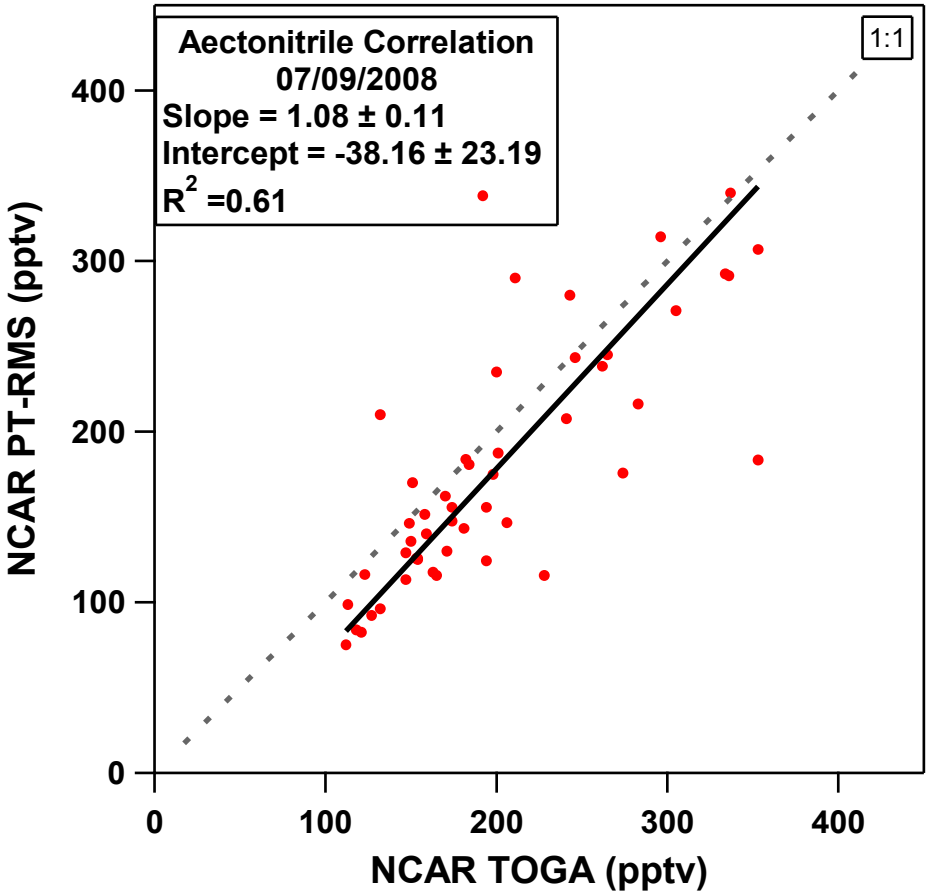

07/09/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=5
PTRMS R1
Acetone (pptv)
3000
2500
2000
1500
1000
500
0
Altitude (km)
10
8
6
4
2
0
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00
GMT

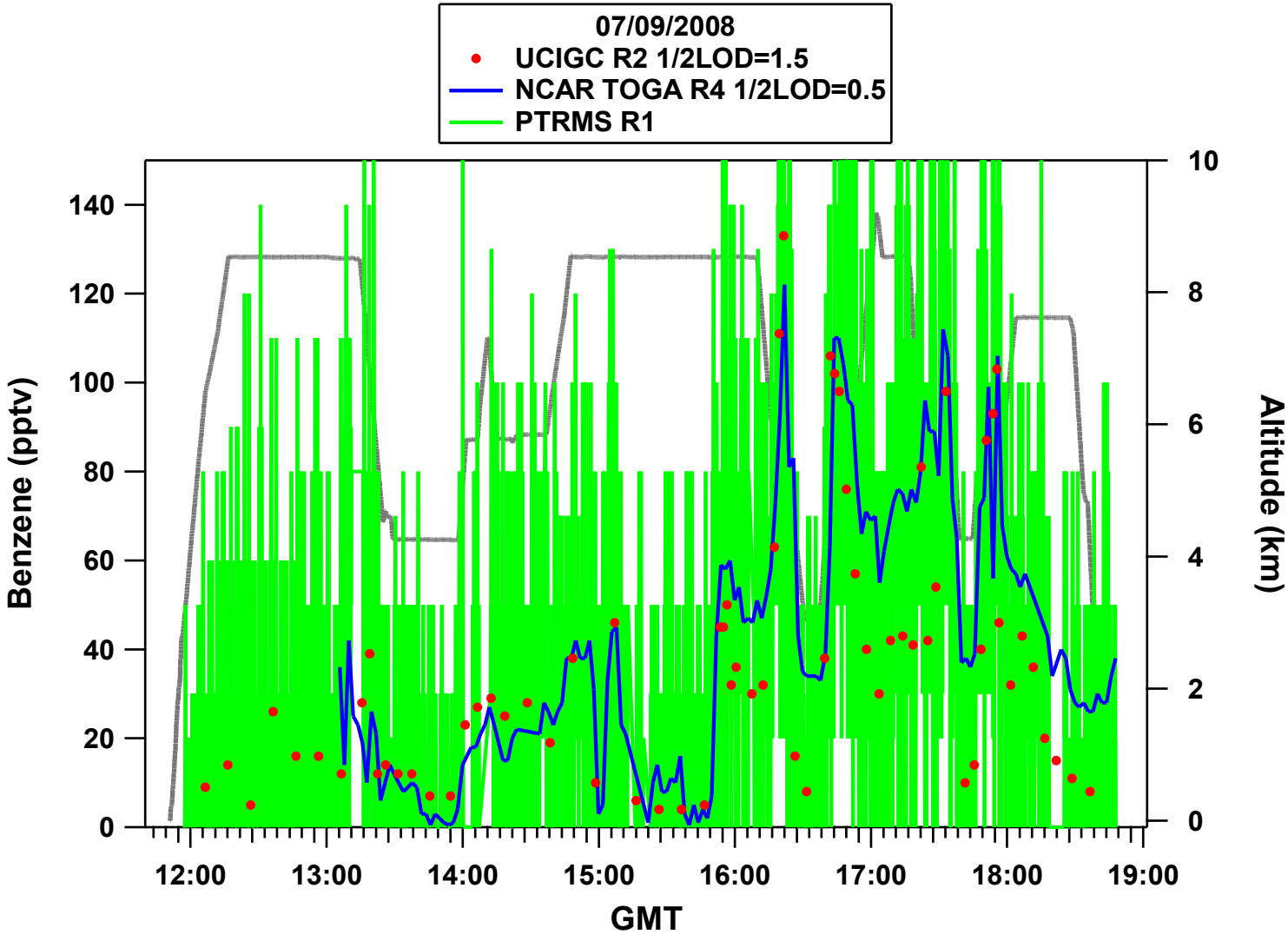

Acetone Correlation
07/09/2008
Slope = 0.58 ± 0.08
Intercept = 44.62 ± 133.09
R2 =0.44
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
0
500
1000
1500
2000
2500
3000

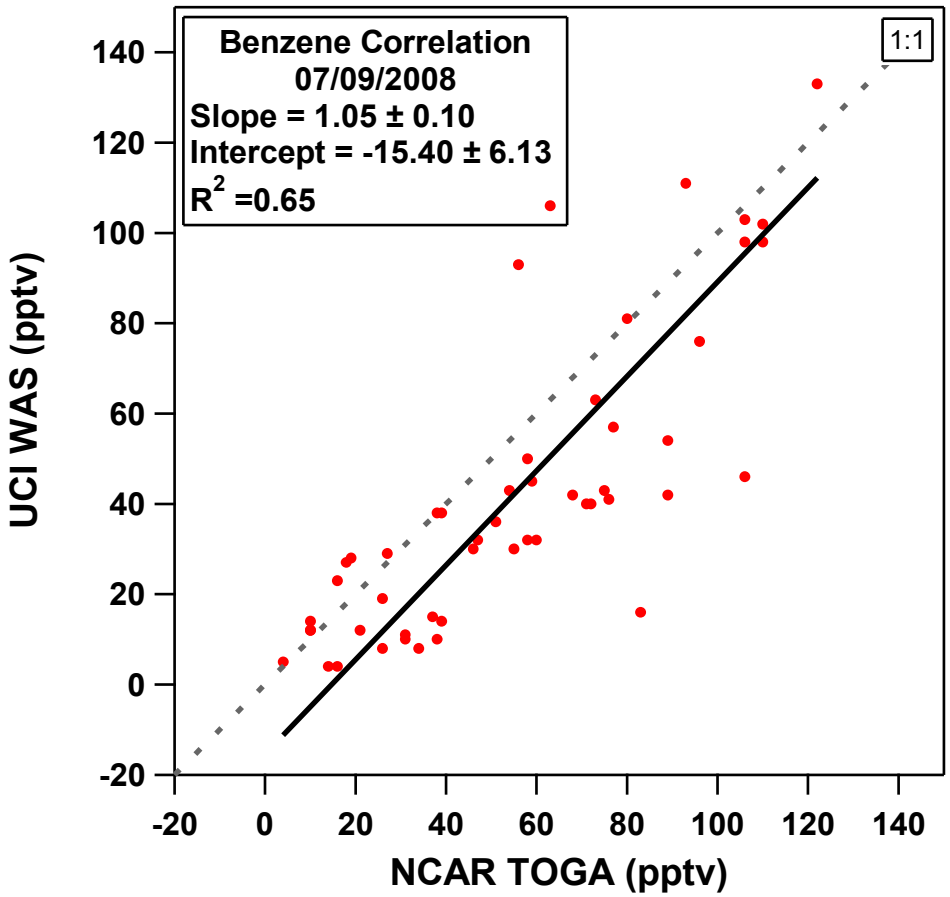

Acetone Correlation
07/09/2008
Slope = 0.57 ± 0.06
Intercept = 62.89 ± 94.16
R2 =0.56
1:1
UCI WAS (pptv)
NCAR PT-RMS (pptv)
0
500
1000
1500
2000
2500
3000

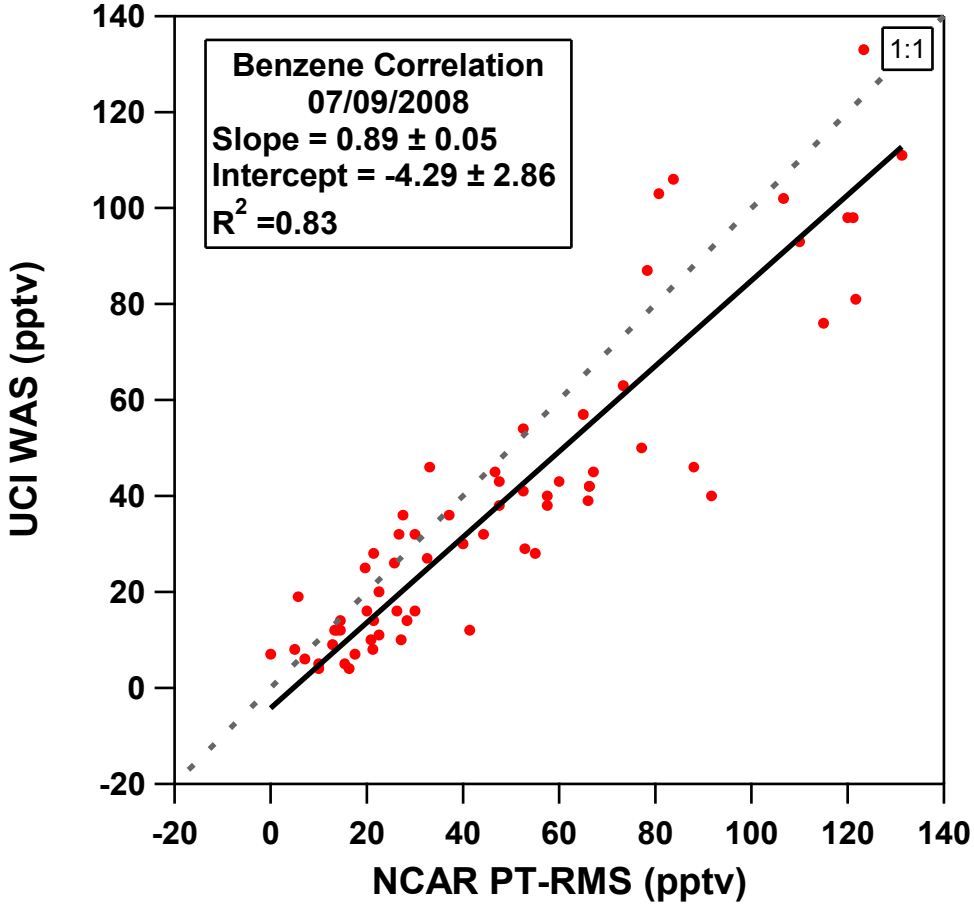

Acetone Correlation
07/09/2008
Slope = 1.14 ± 0.07
Intercept = -261.23 ± 127.97
R2 =0.82
1:1
NCAR PT-RMS (pptv)
NCAR TOGA (pptv)
0
500
1000
1500
2000
2500
3000

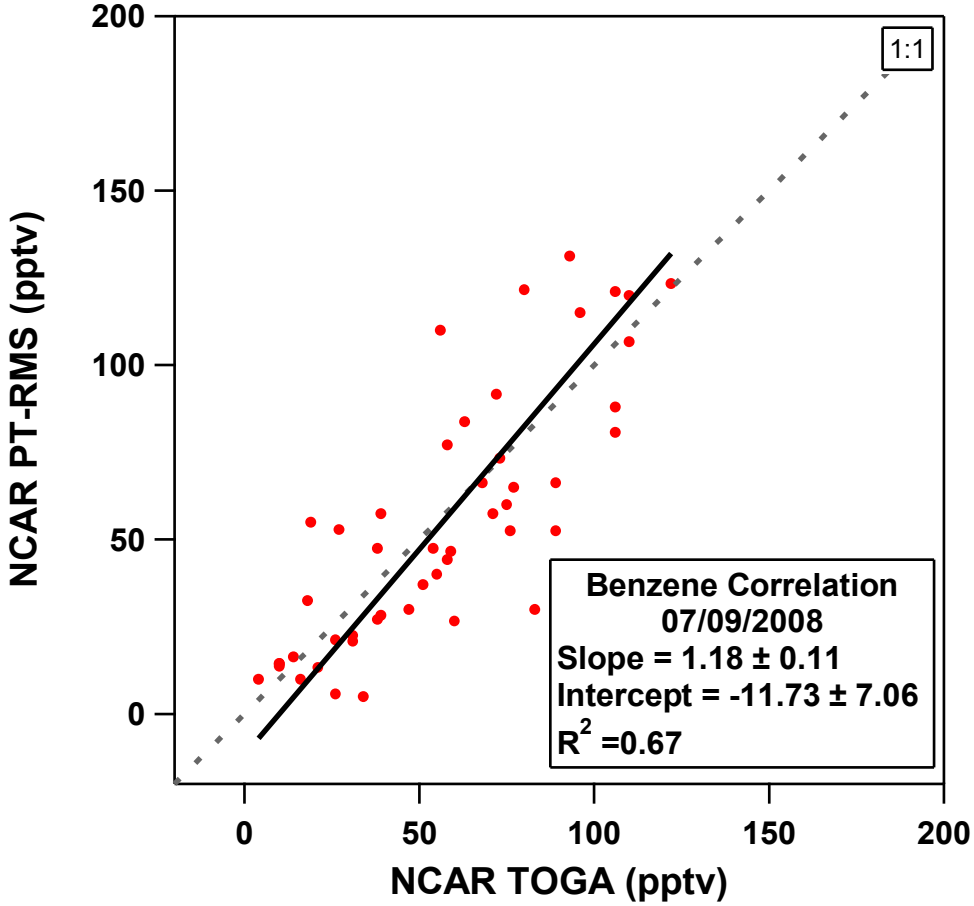

07/09/2008
NCAR TOGA R4 1/2LOD=5
NCAR PTRMS R1
Acetonitrile (pptv)
500
400
300
200
100
0
Altitude (km)
10
8
6
4
2
0
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00
GMT

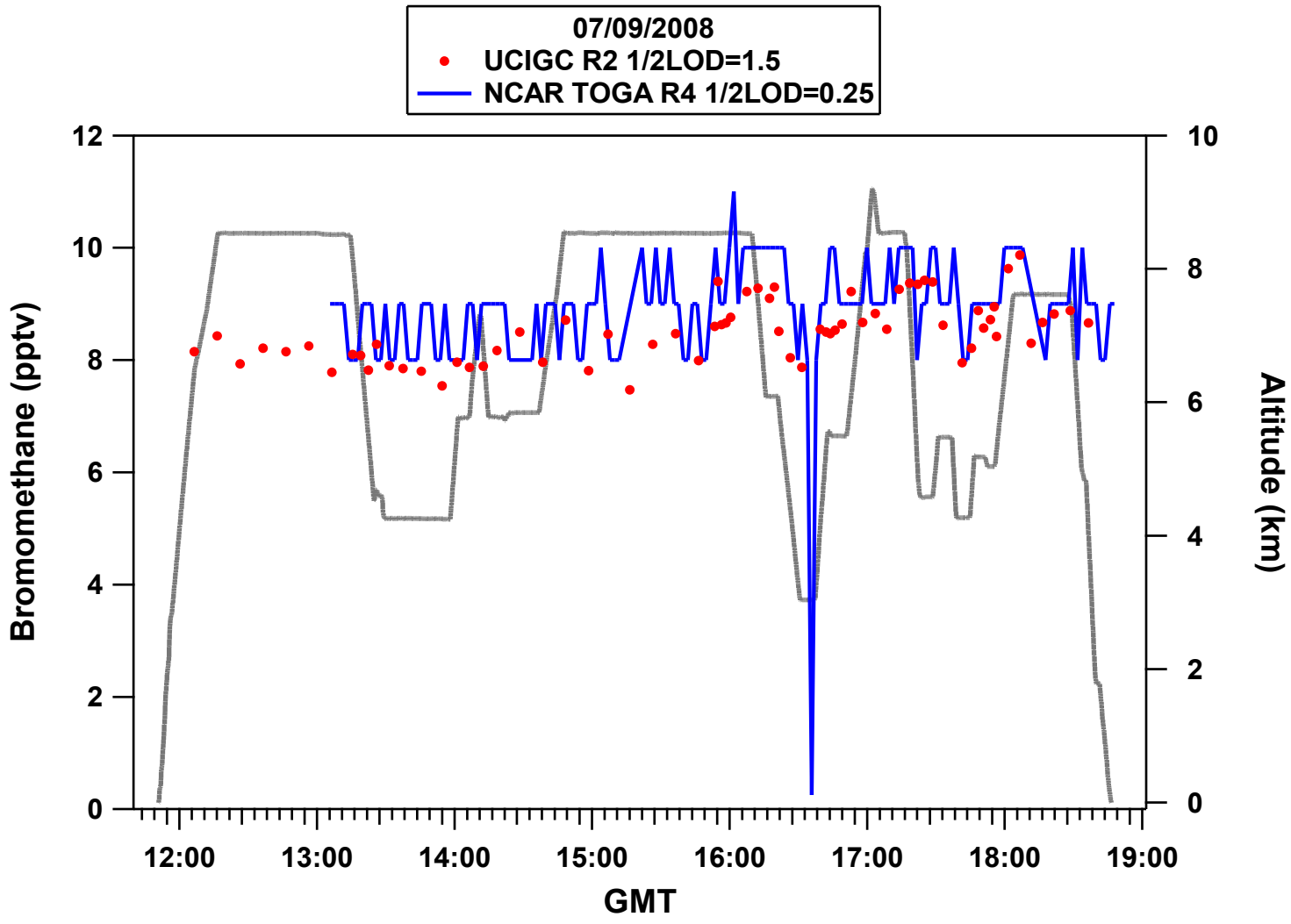

Aectonitrile Correlation
07/09/2008
Slope = 1.08 ± 0.11
Intercept = -38.16 ± 23.19
R2 =0.61
1:1
NCAR PT-RMS (pptv)
NCAR TOGA (pptv)
0
100
200
300
400

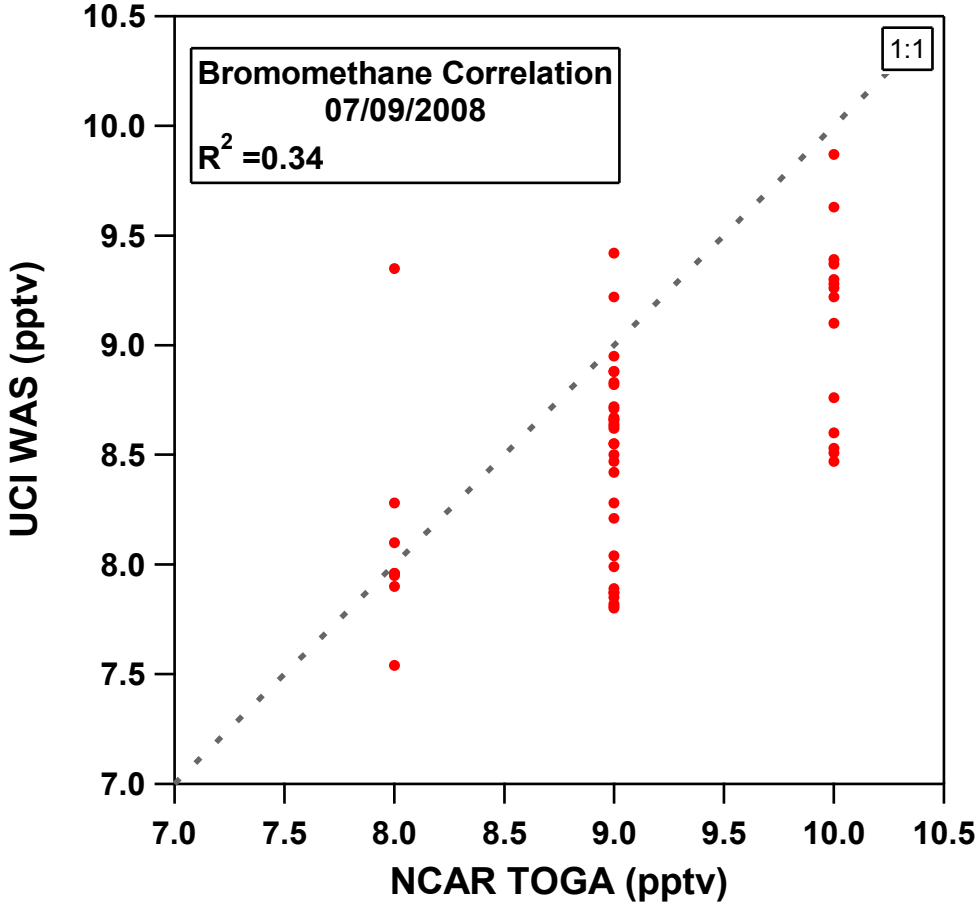

07/09/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
PTRMS R1
Benzene (pptv)
Altitude (km)
GMT
0
20
40
60
80
100
120
140
0
2
4
6
8
10
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00

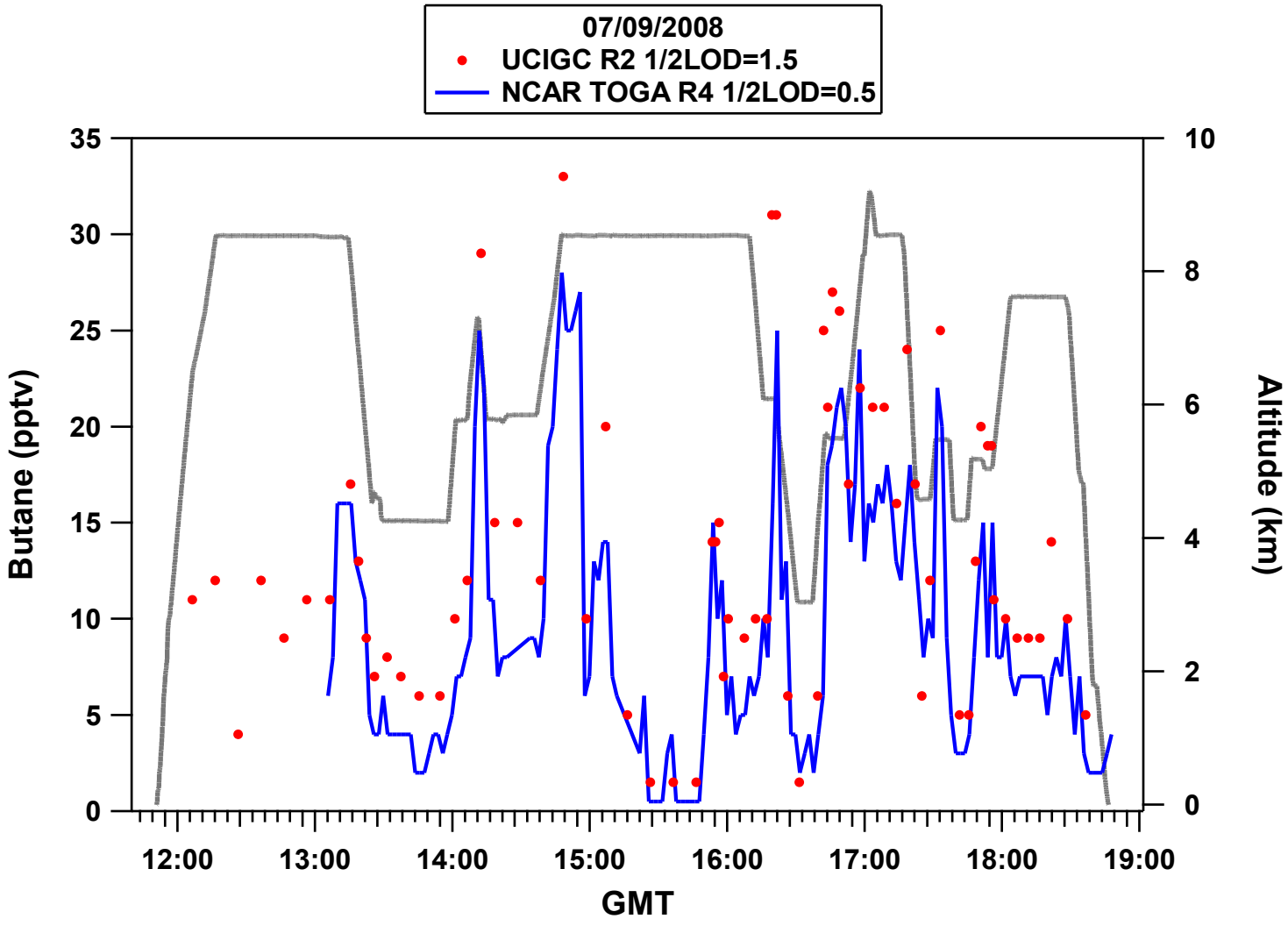

Benzene Correlation
07/09/2008
Slope = 1.05 ± 0.10
Intercept = -15.40 ± 6.13
R2 =0.65
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
140
120
100
80
60
40
20
0
-20
-20
0
20
40
60
80
100
120
140

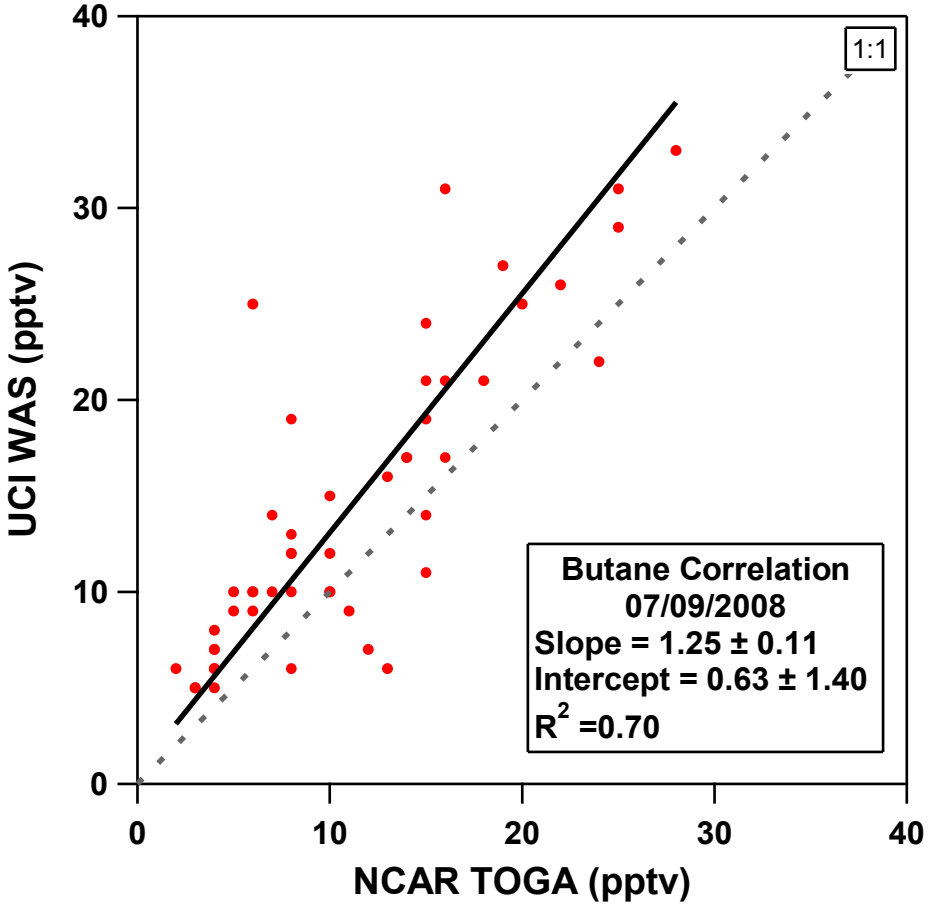

Benzene Correlation
07/09/2008
Slope = 0.89 ± 0.05
Intercept = -4.29 ± 2.86
R2 =0.83
1:1
UCI WAS (pptv)
NCAR PT-RMS (pptv)
140
120
100
80
60
40
20
0
-20
-20
0
20
40
60
80
100
120
140

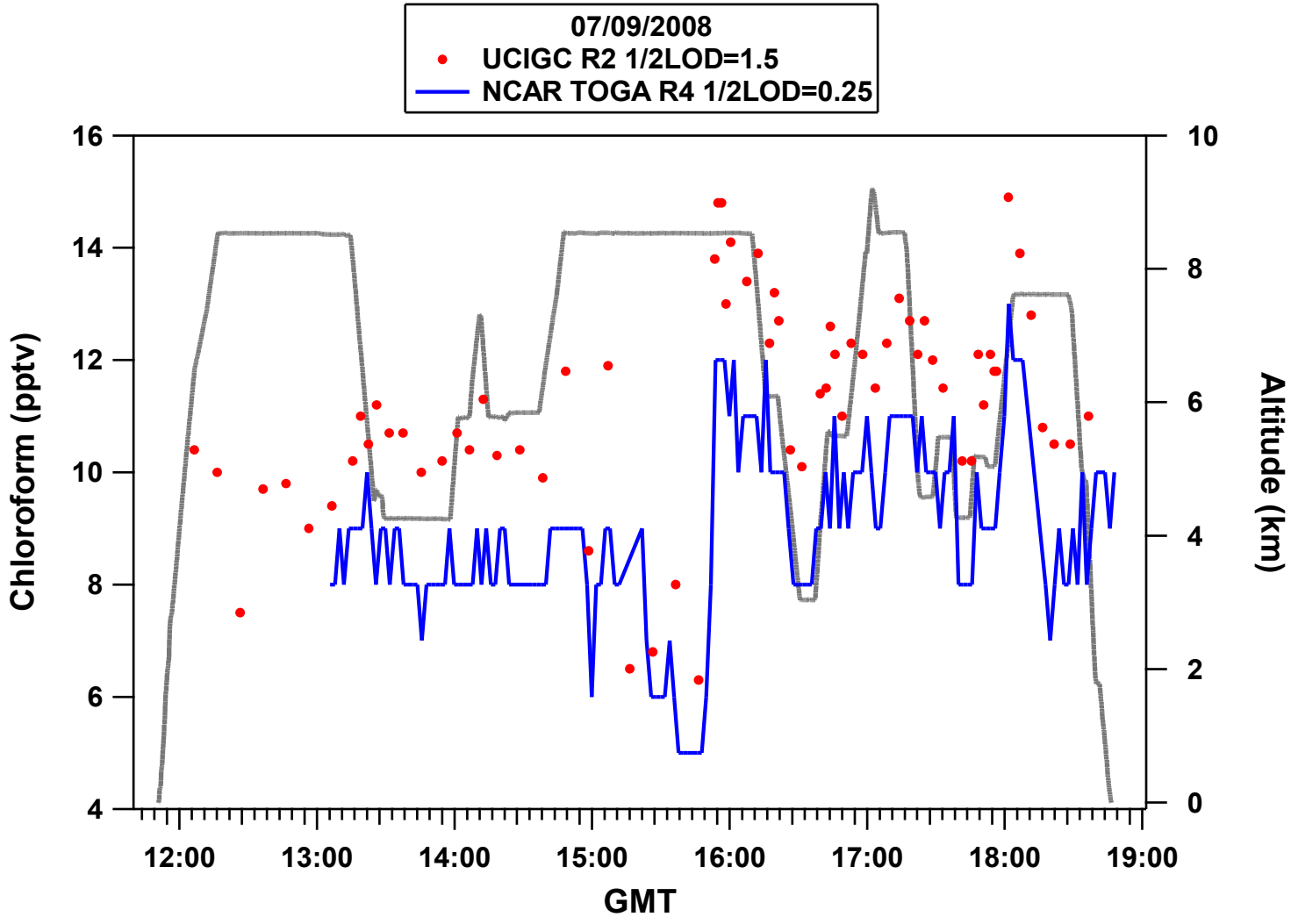

1:1
Benzene Correlation
07/09/2008
Slope = 1.18 ± 0.11
Intercept = -11.73 ± 7.06
R2 =0.67
NCAR PT-RMS (pptv)
NCAR TOGA (pptv)
200
150
100
50
0
0
50
100
150
200

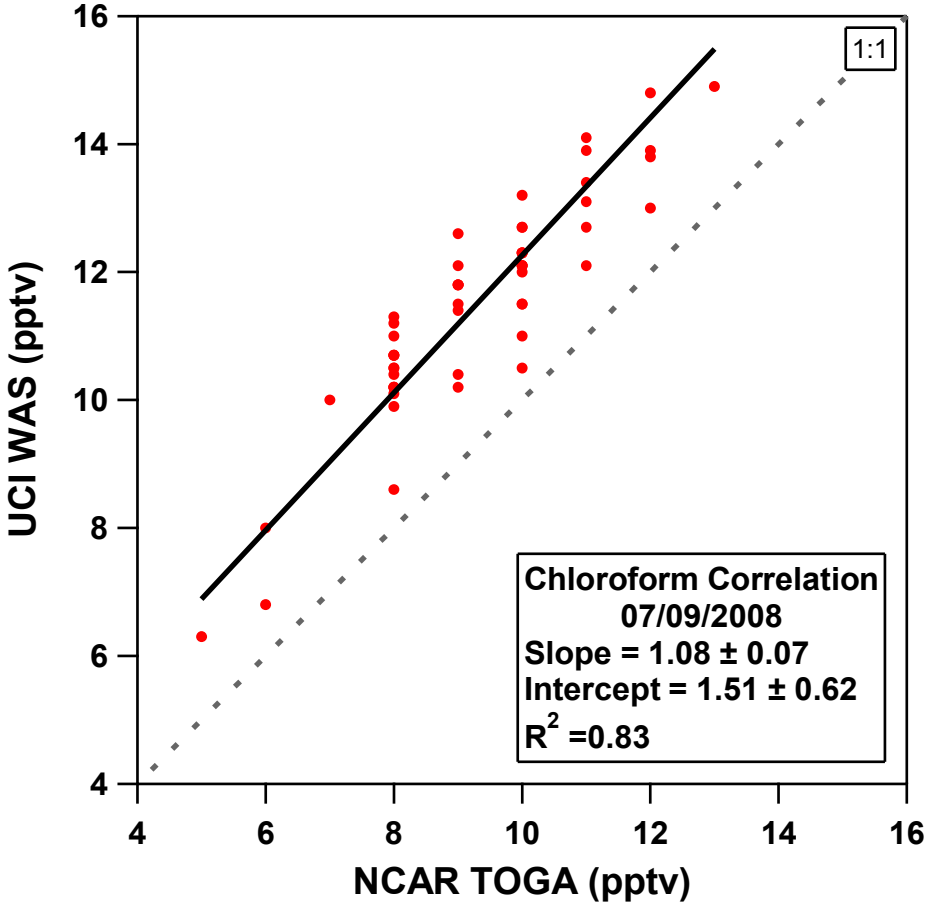

07/09/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.25
Bromomethane (pptv)
Altitude (km)
GMT
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00
0
2
4
6
8
10
12

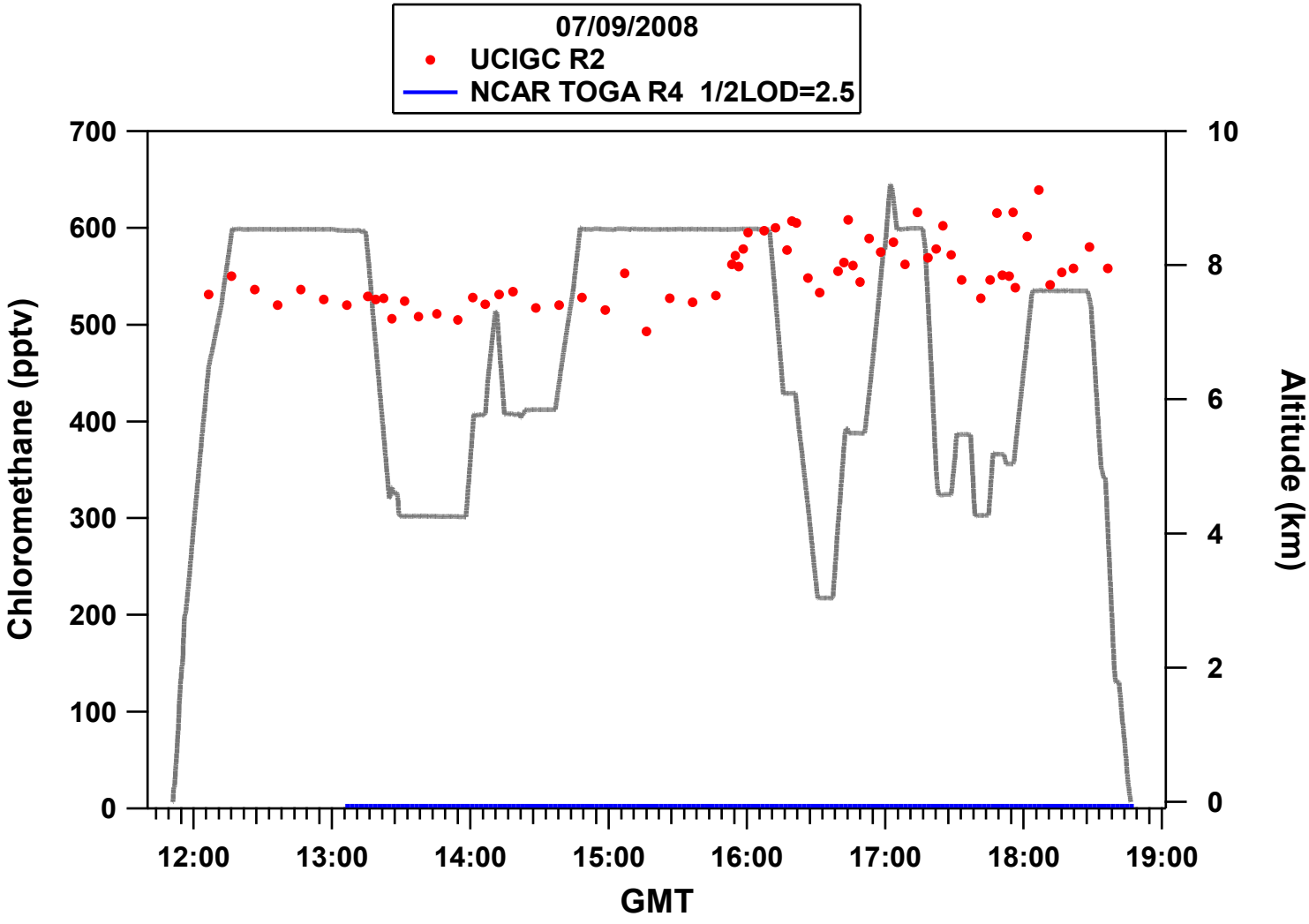

Bromomethane Correlation
07/09/2008
R2 =0.34
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
10.5
10.0
9.5
9.0
8.5
8.0
7.5
7.0
7.0
7.5
8.0
8.5
9.0
9.5
10.0
10.5

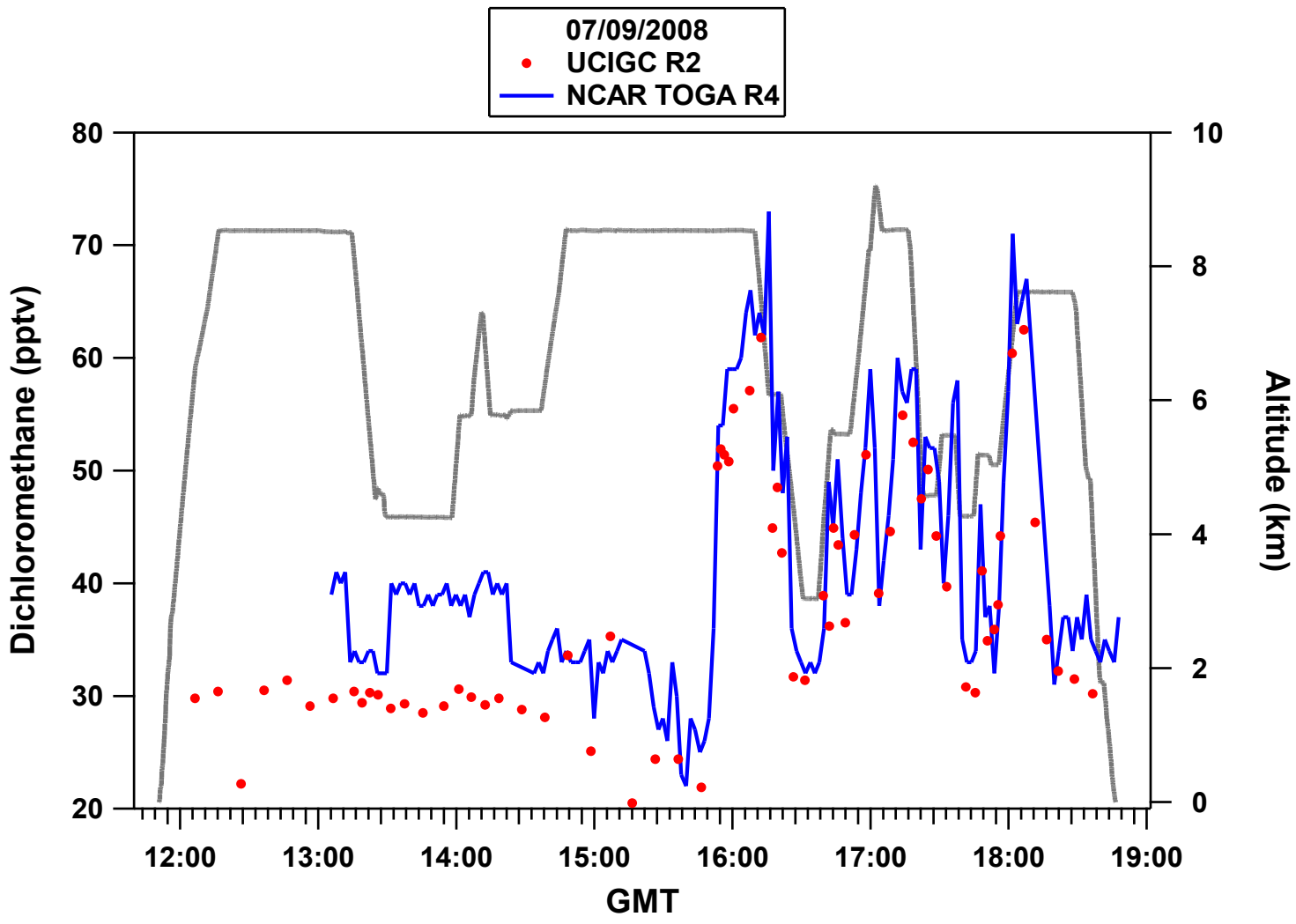

07/09/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
Butane (pptv)
Altitude (km)
GMT
35
30
25
20
15
10
5
0
10
8
6
4
2
0
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00

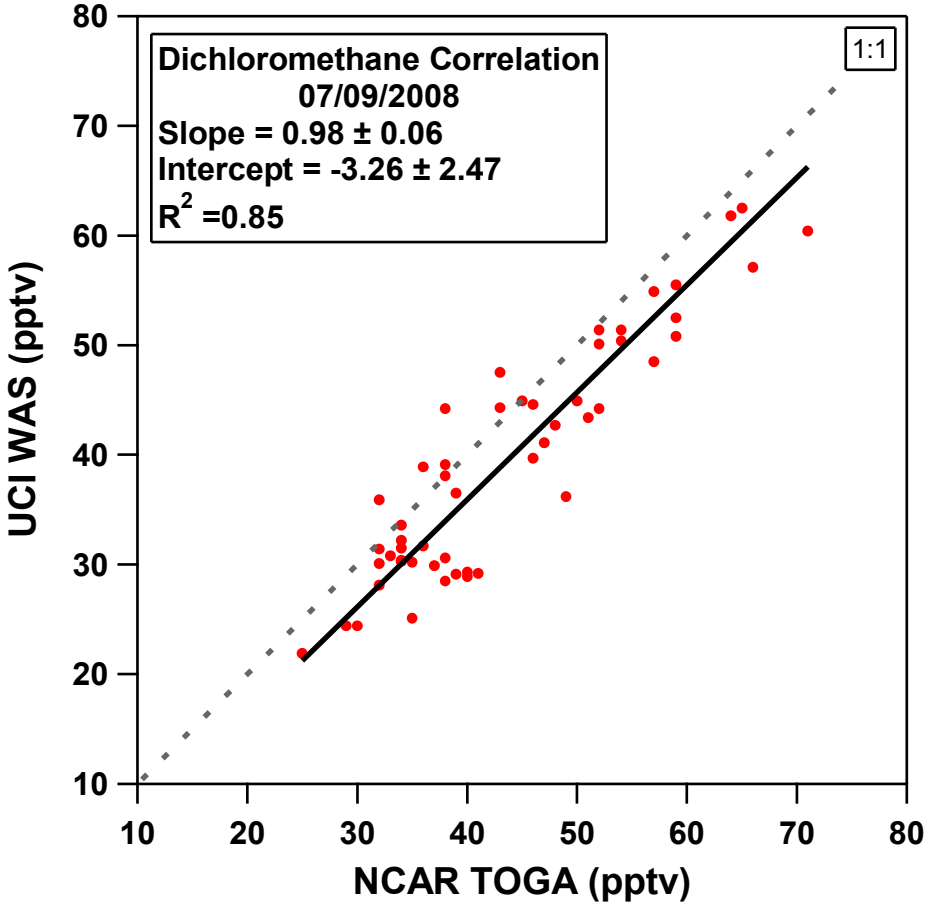

1:1
Butane Correlation
07/09/2008
Slope = 1.25 ± 0.11
Intercept = 0.63 ± 1.40
R2 =0.70
UCI WAS (pptv)
NCAR TOGA (pptv)
0
10
20
30
40

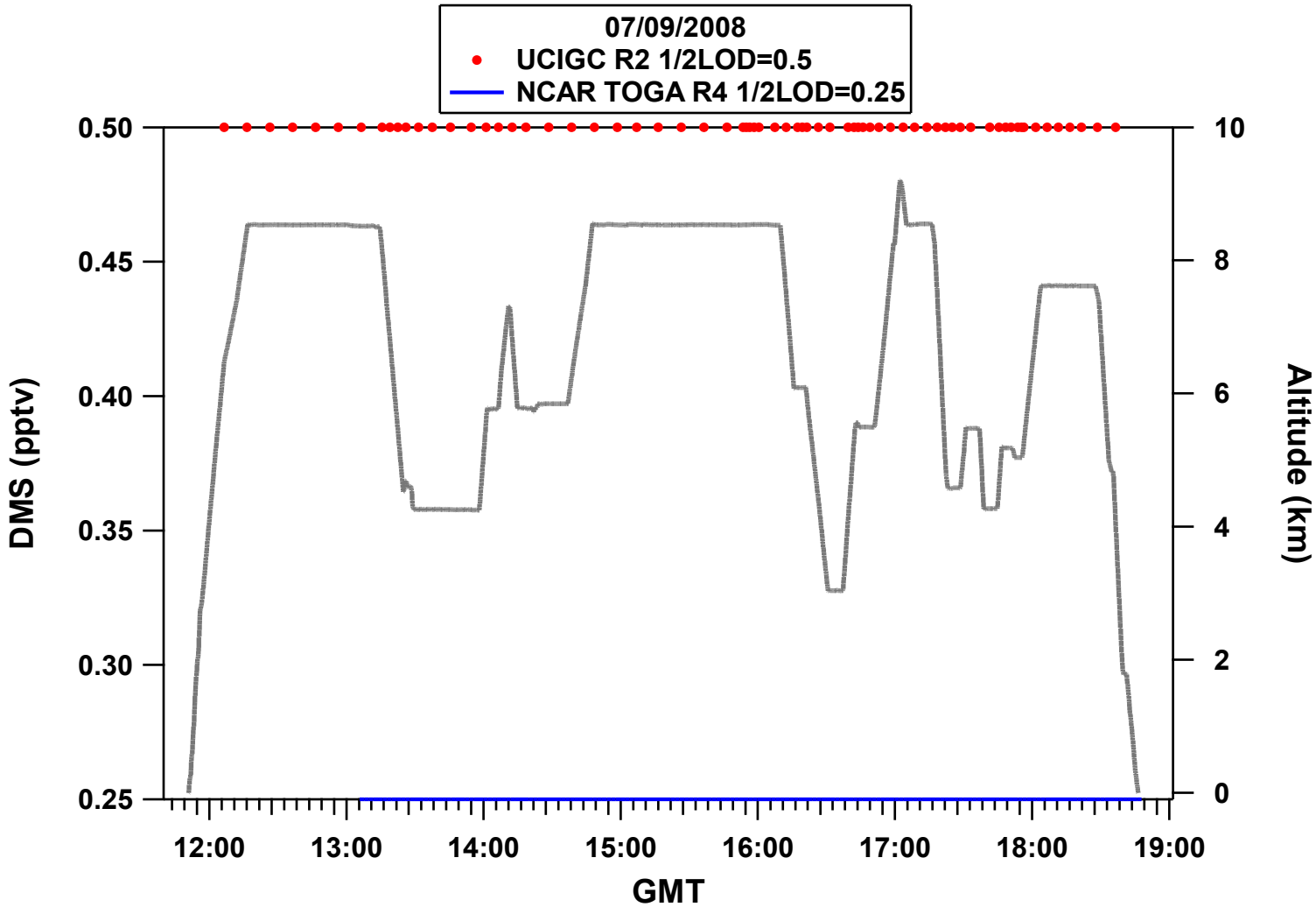

07/09/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.25
Chloroform (pptv)
Altitude (km)
GMT
16
14
12
10
8
6
4
10
8
6
4
2
0
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00

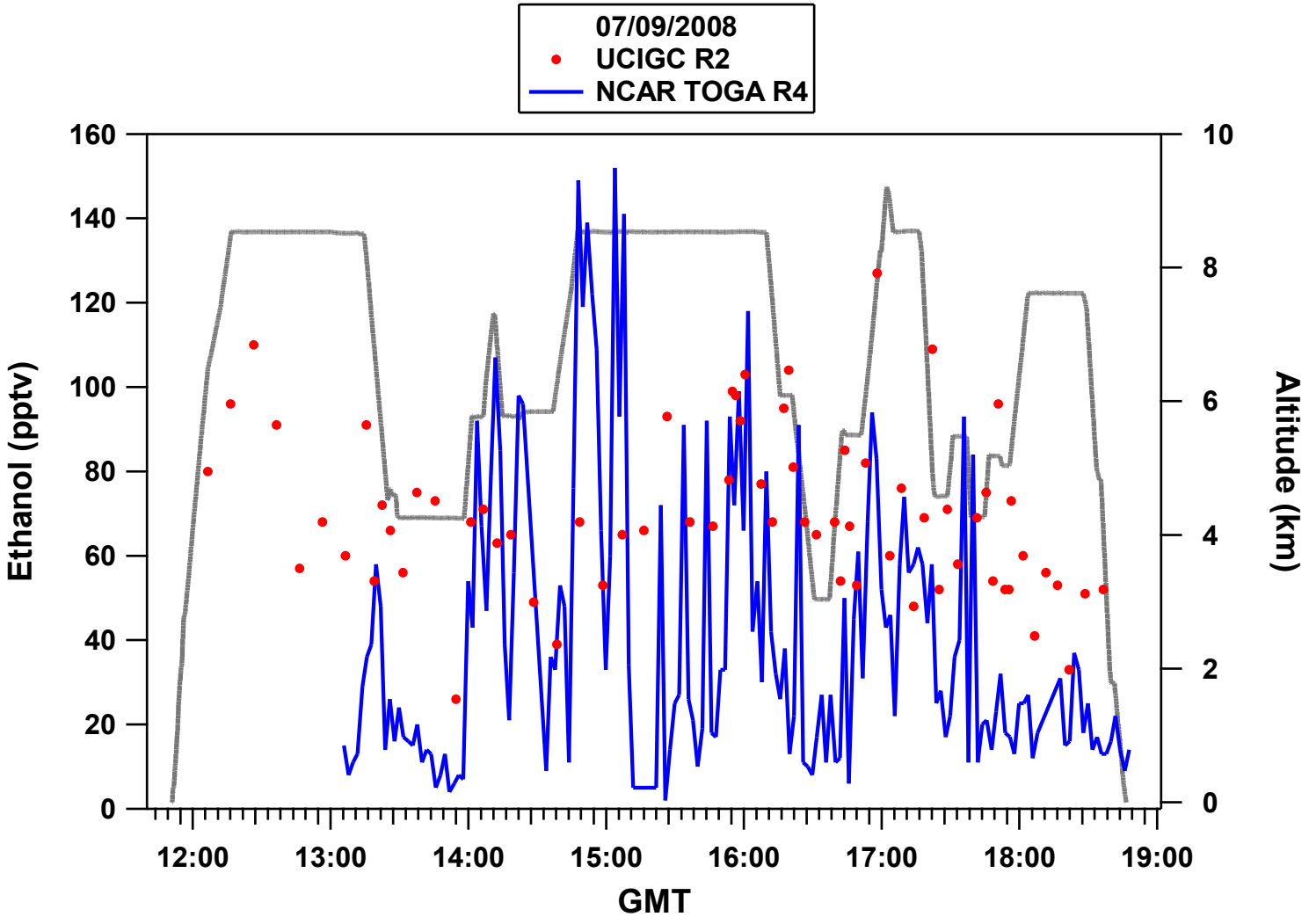

16
14
12
10
8
6
4
UCI WAS (pptv)
4
6
8
10
12
14
16
NCAR TOGA (pptv)
1:1
Chloroform Correlation
07/09/2008
Slope = 1.08 ± 0.07
Intercept = 1.51 ± 0.62
R2 =0.83

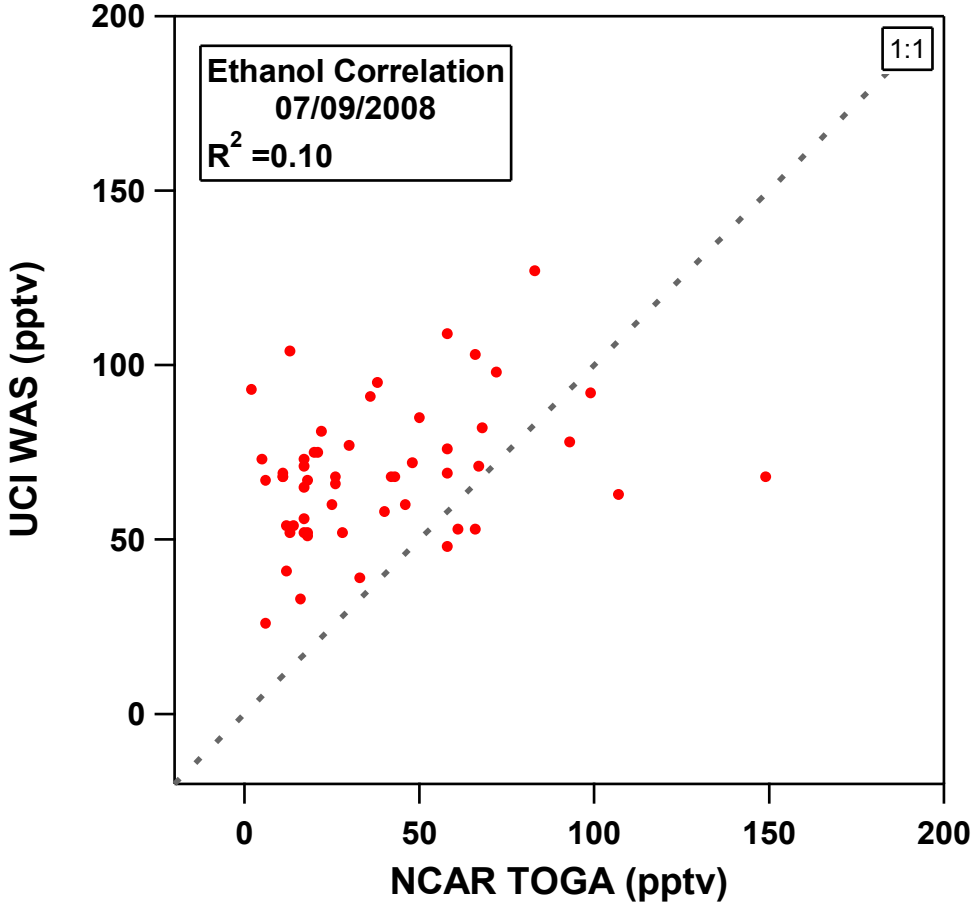

07/09/2008
UCIGC R2
NCAR TOGA R4 1/2LOD=2.5
Chloromethane (pptv)
Altitude (km)
GMT
700
600
500
400
300
200
100
0
10
8
6
4
2
0
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00

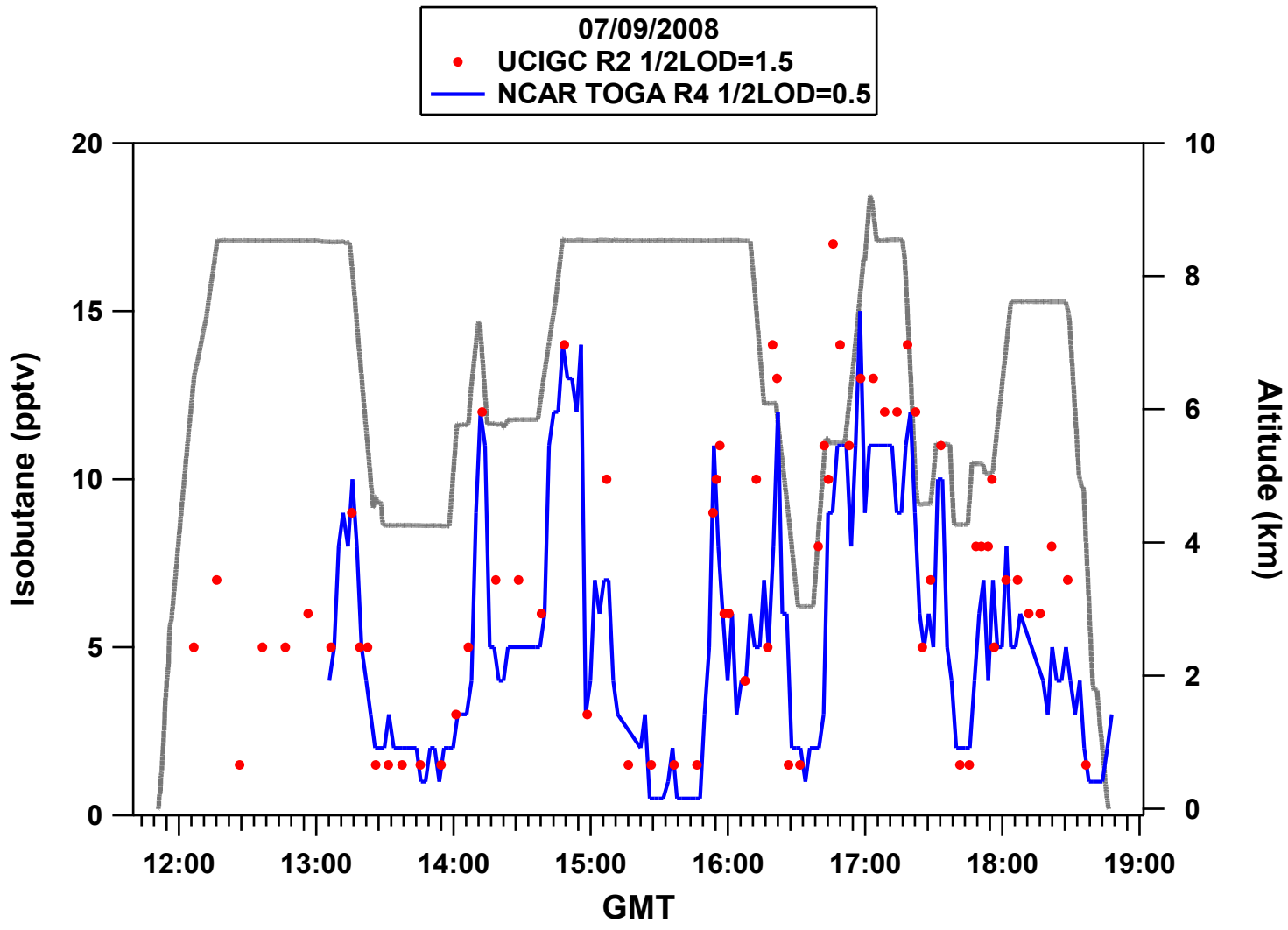

07/09/2008
UCIGC R2
NCAR TOGA R4
Dichloromethane (pptv)
Altitude (km)
GMT
80
70
60
50
40
30
20
10
8
6
4
2
0
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00

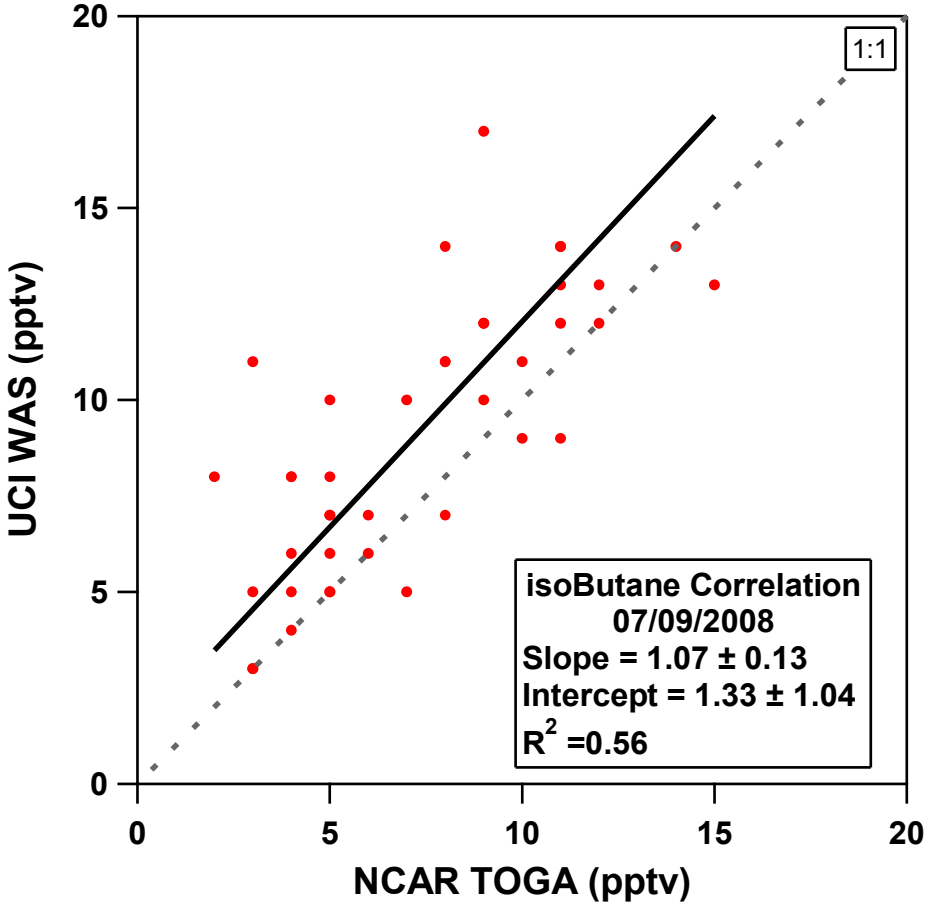

Dichloromethane Correlation
07/09/2008
Slope = 0.98 ± 0.06
Intercept = -3.26 ± 2.47
R2 =0.85
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
10
20
30
40
50
60
70
80

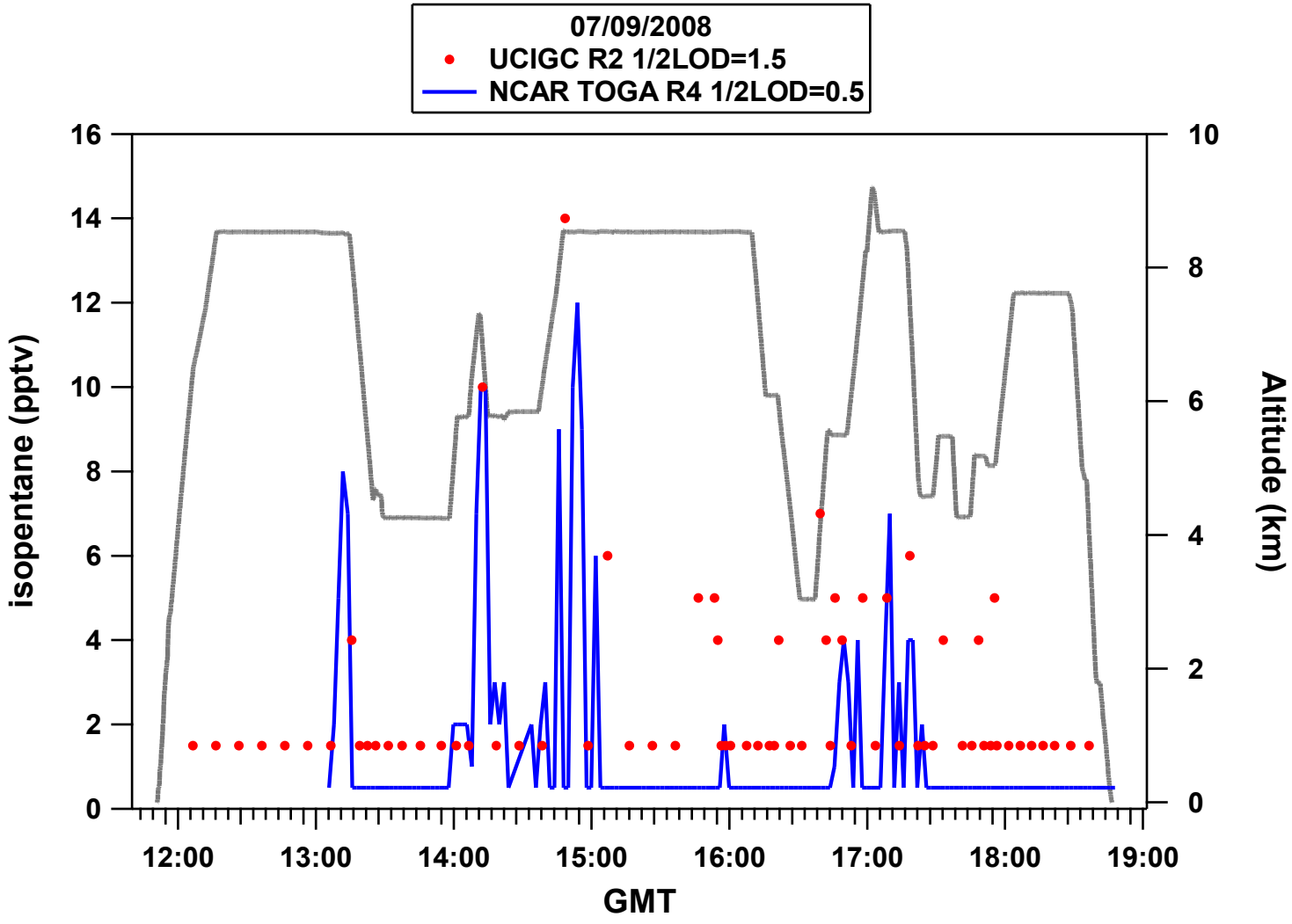

07/09/2008
UCIGC R2 1/2LOD=0.5
NCAR TOGA R4 1/2LOD=0.25
DMS (pptv)
0.50
0.45
0.40
0.35
0.30
0.25
Altitude (km)
10
8
6
4
2
0
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00
GMT

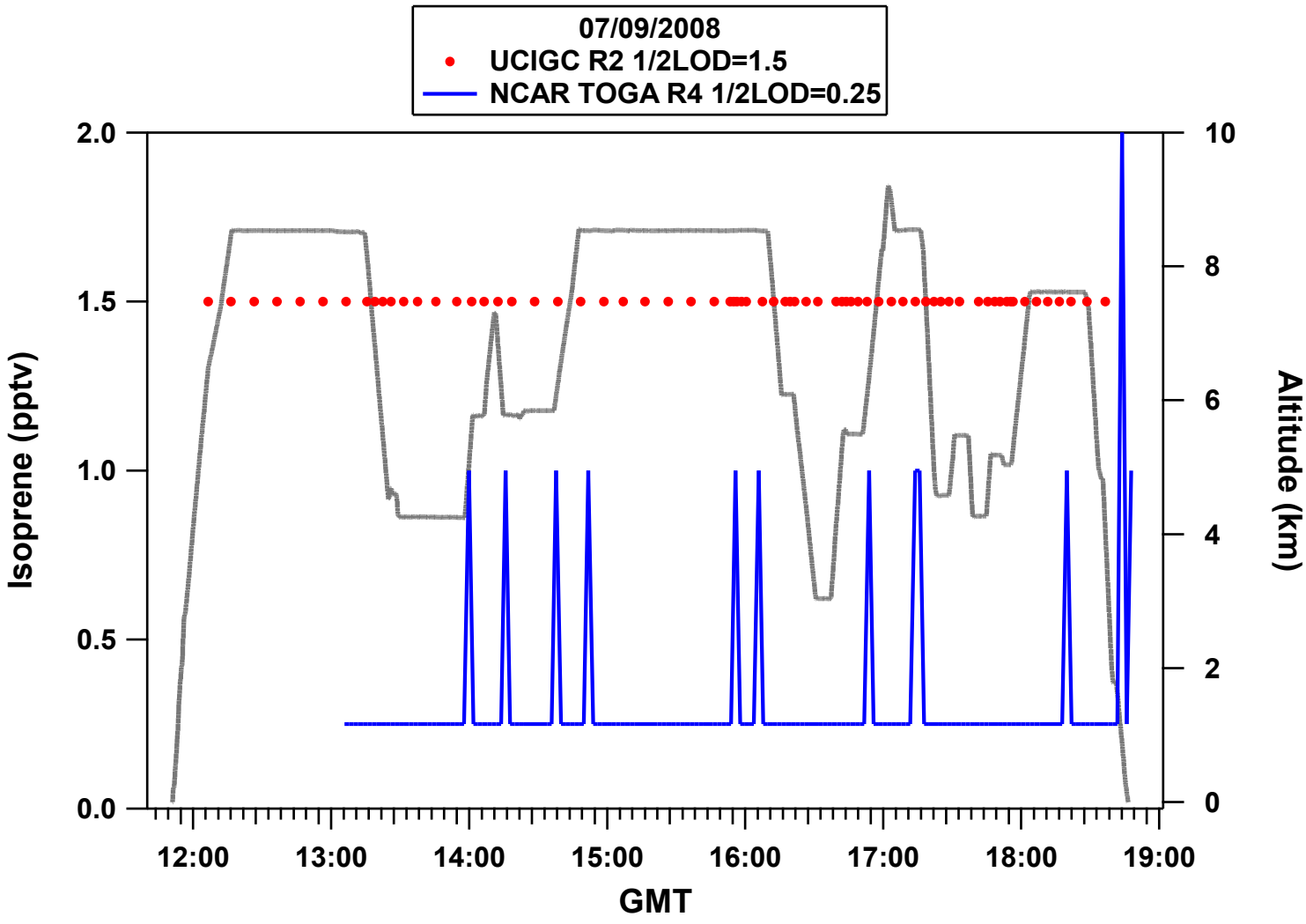

07/09/2008
UCIGC R2
NCAR TOGA R4
Ethanol (pptv)
Altitude (km)
GMT
0
20
40
60
80
100
120
140
160
0
2
4
6
8
10
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00

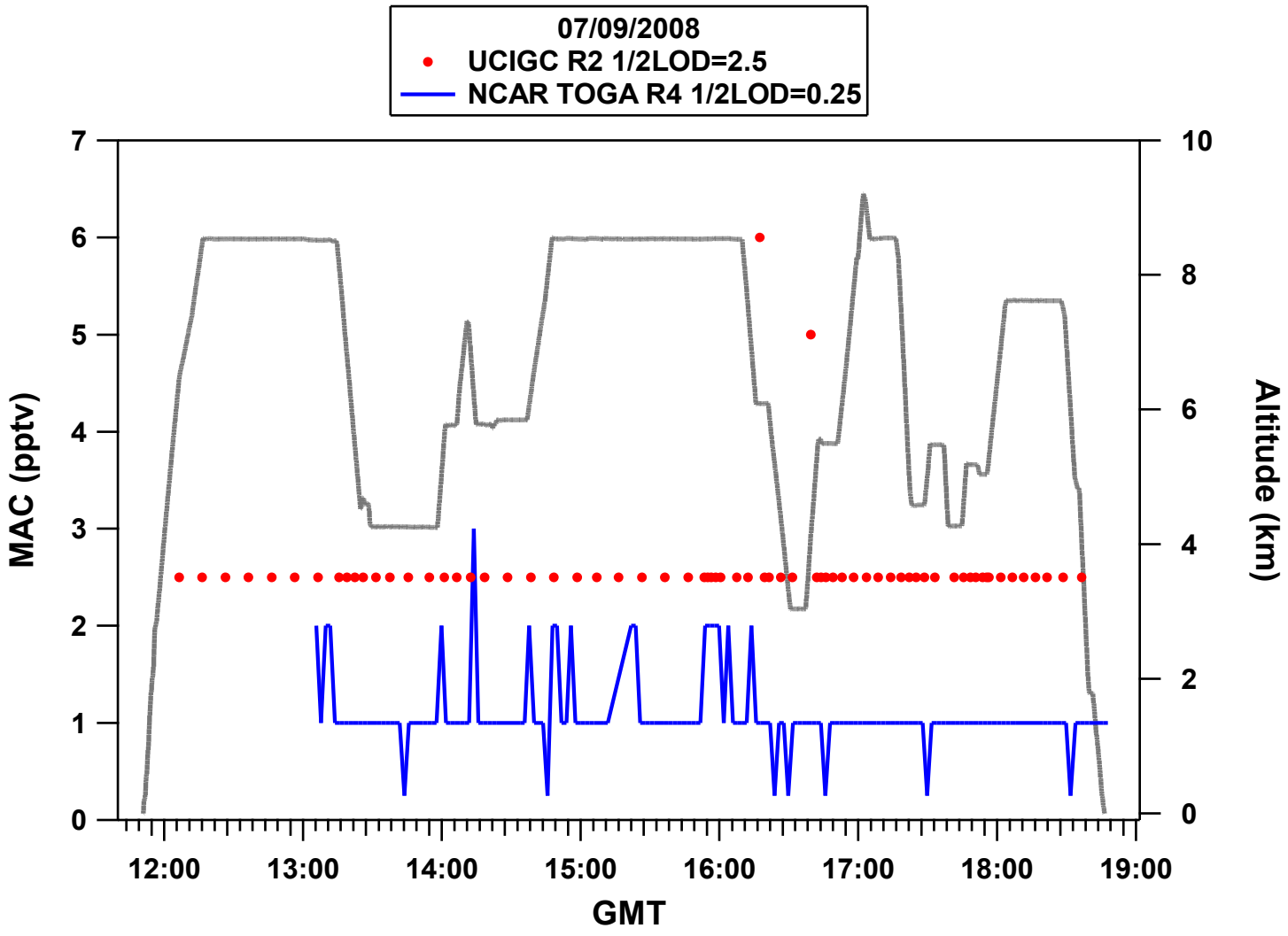

Ethanol Correlation
07/09/2008
R2 =0.10
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
200
150
100
50
0
0
50
100
150
200

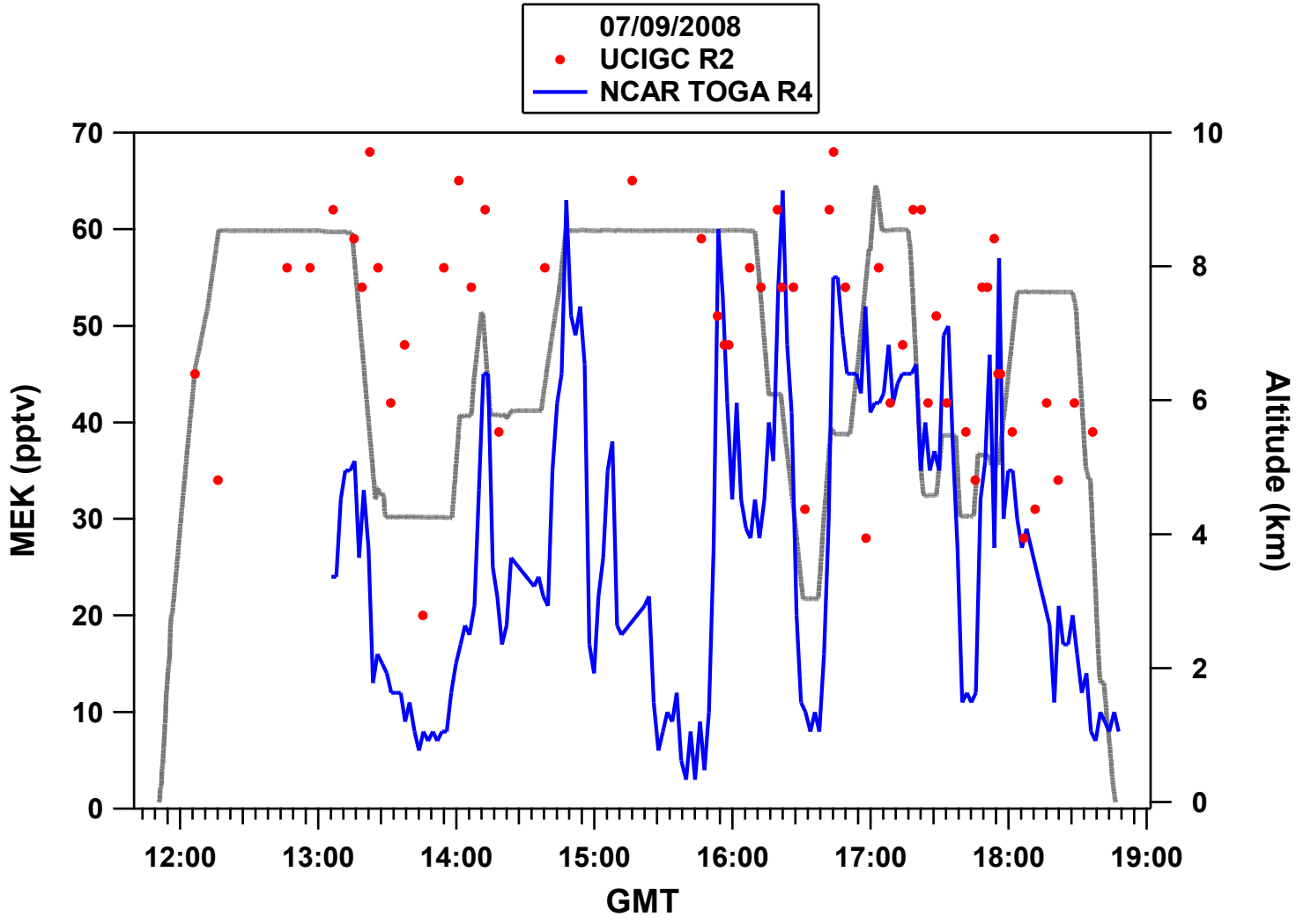

07/09/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
Isobutane (pptv)
Altitude (km)
GMT
0
5
10
15
20
0
2
4
6
8
10
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00

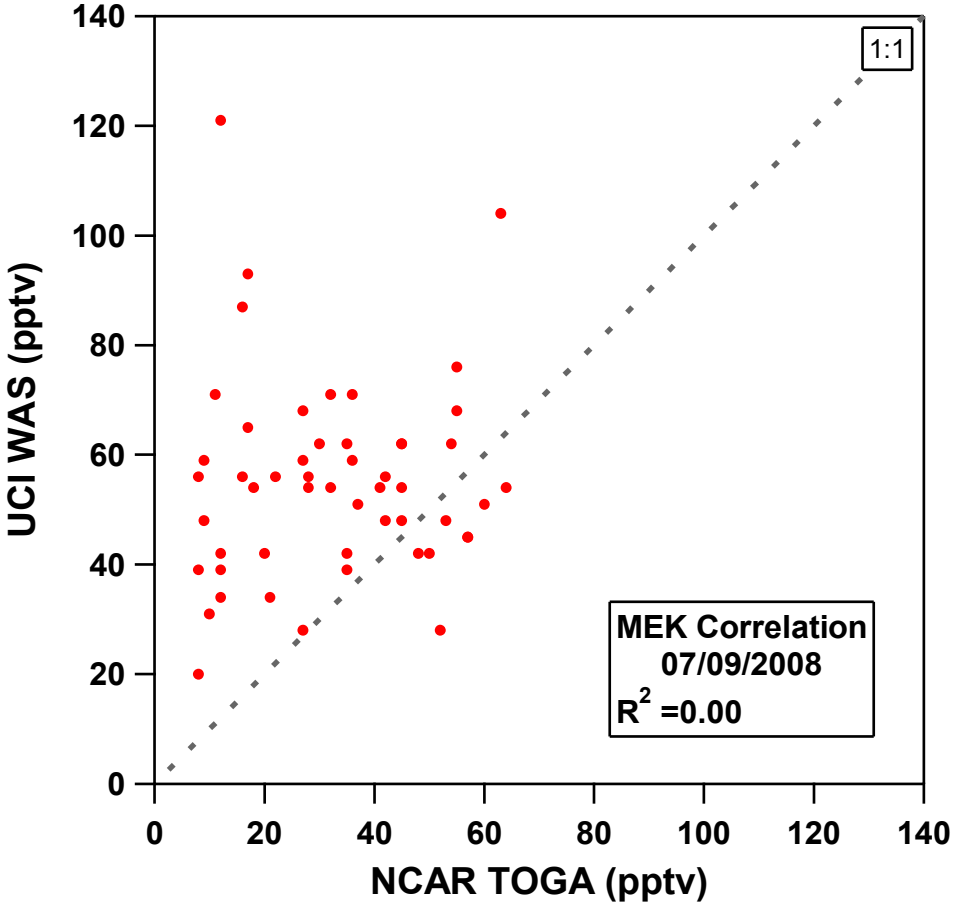

1:1
isoButane Correlation
07/09/2008
Slope = 1.07 ± 0.13
Intercept = 1.33 ± 1.04
R2 =0.56
UCI WAS (pptv)
NCAR TOGA (pptv)
0
5
10
15
20

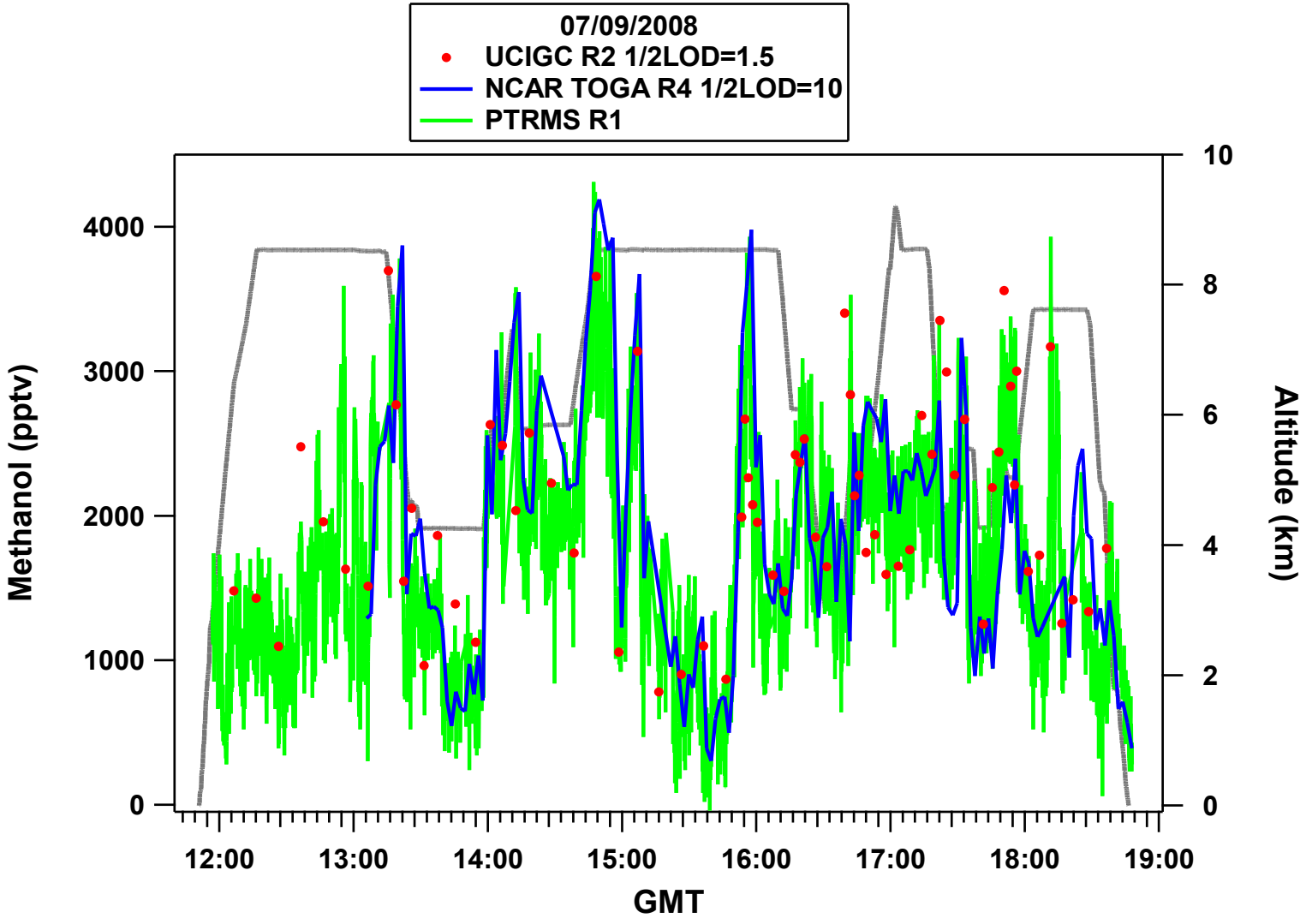

07/09/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
isopentane (pptv)
Altitude (km)
GMT
0
2
4
6
8
10
12
14
16
0
2
4
6
8
10
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00

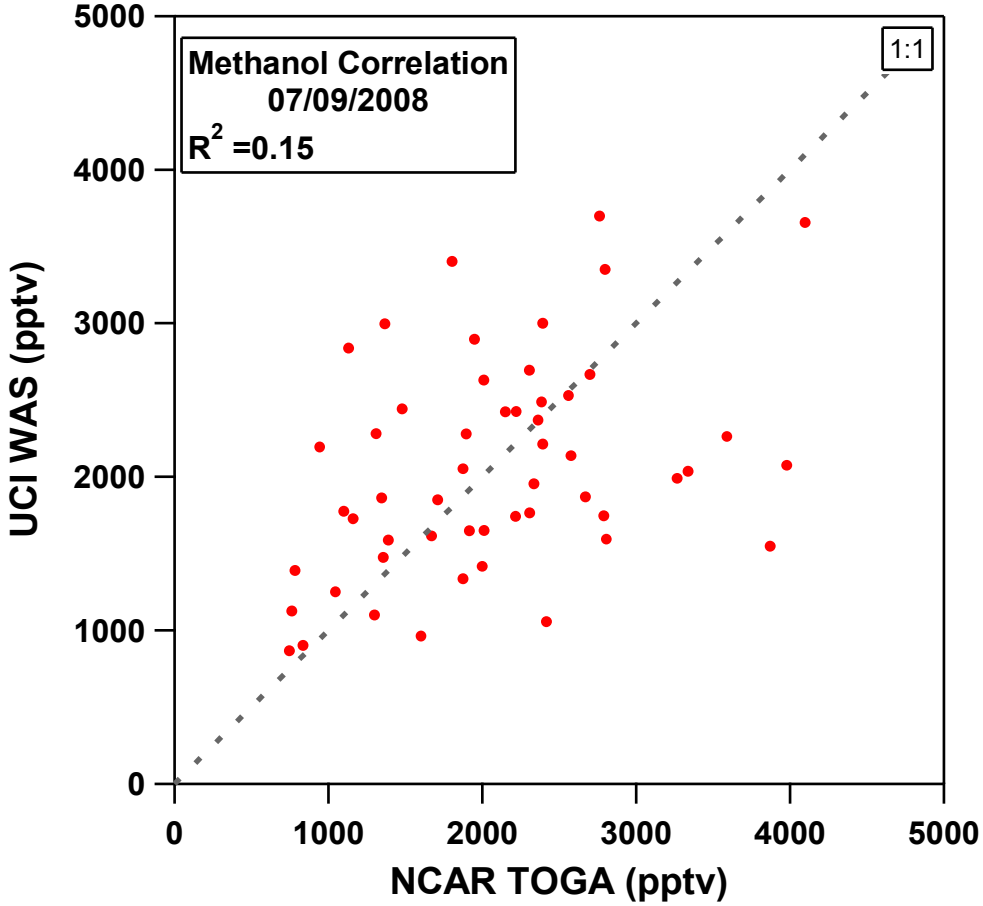

07/09/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.25
Isoprene (pptv)
Altitude (km)
GMT
2.0
1.5
1.0
0.5
0.0
10
8
6
4
2
0
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00

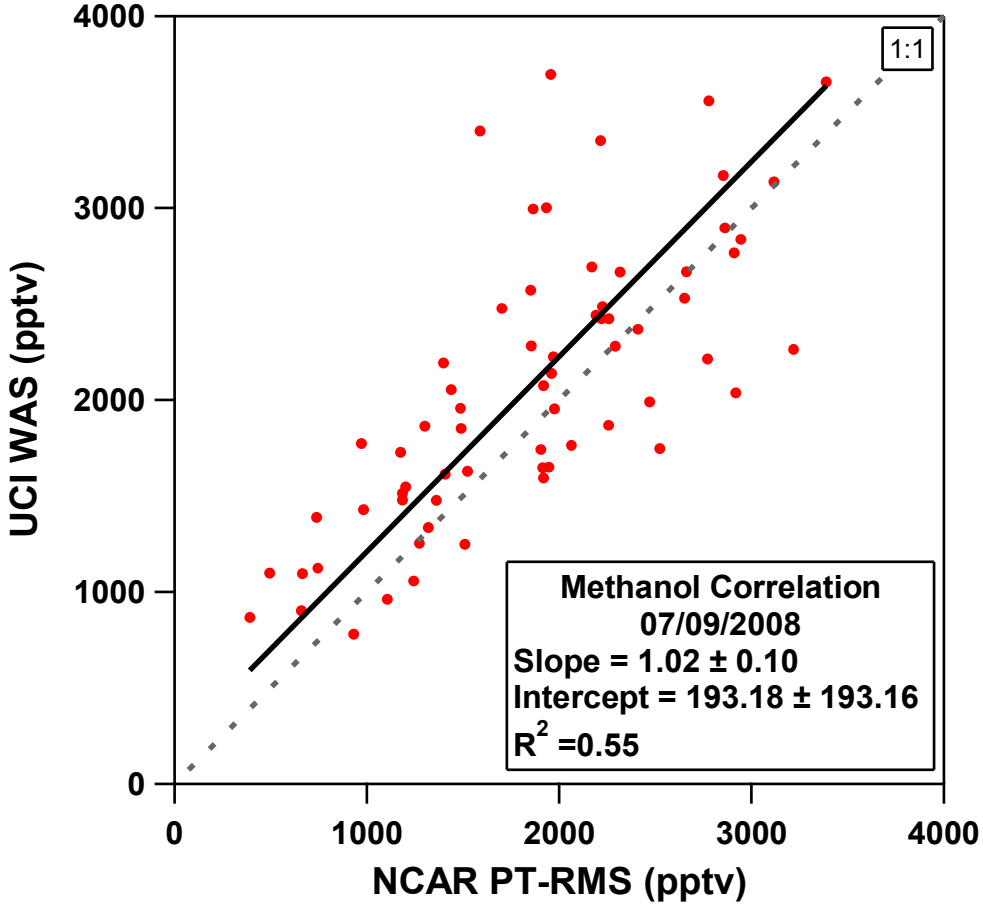

07/09/2008
UCIGC R2 1/2LOD=2.5
NCAR TOGA R4 1/2LOD=0.25
MAC (pptv)
Altitude (km)
GMT
0
1
2
3
4
5
6
7
0
2
4
6
8
10
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00

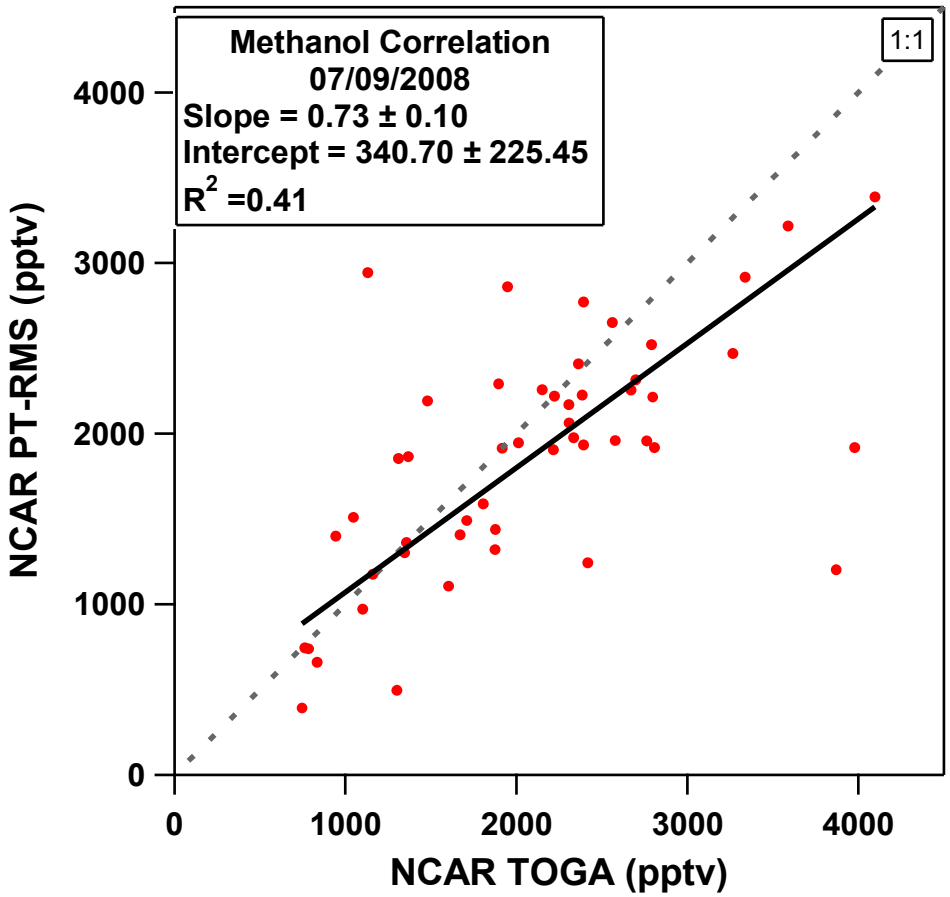

07/09/2008
UCIGC R2
NCAR TOGA R4
MEK (pptv)
Altitude (km)
GMT
0
10
20
30
40
50
60
70
0
2
4
6
8
10
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00

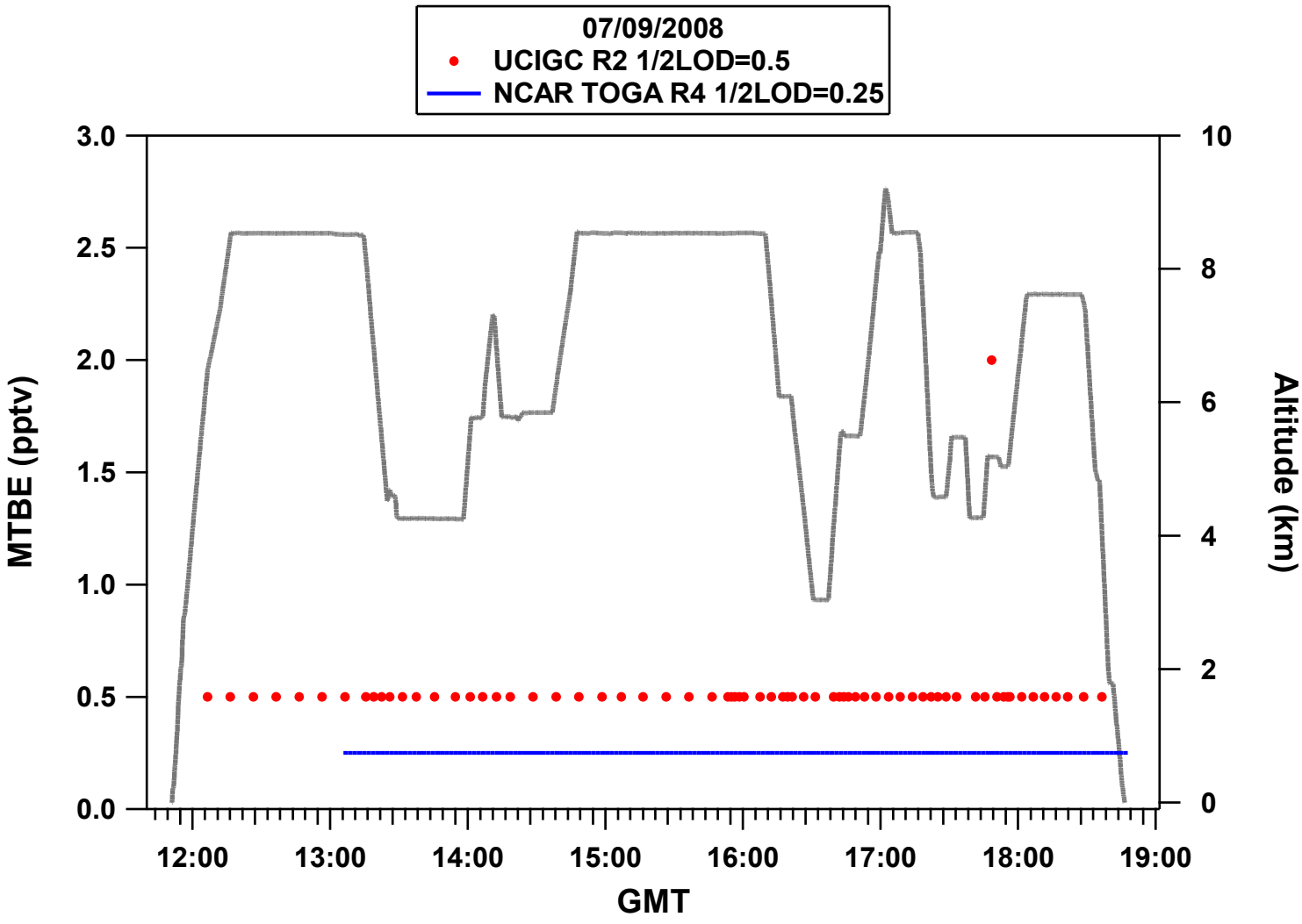

1:1
MEK Correlation
07/09/2008
R2 =0.00
UCI WAS (pptv)
NCAR TOGA (pptv)
0
20
40
60
80
100
120
140

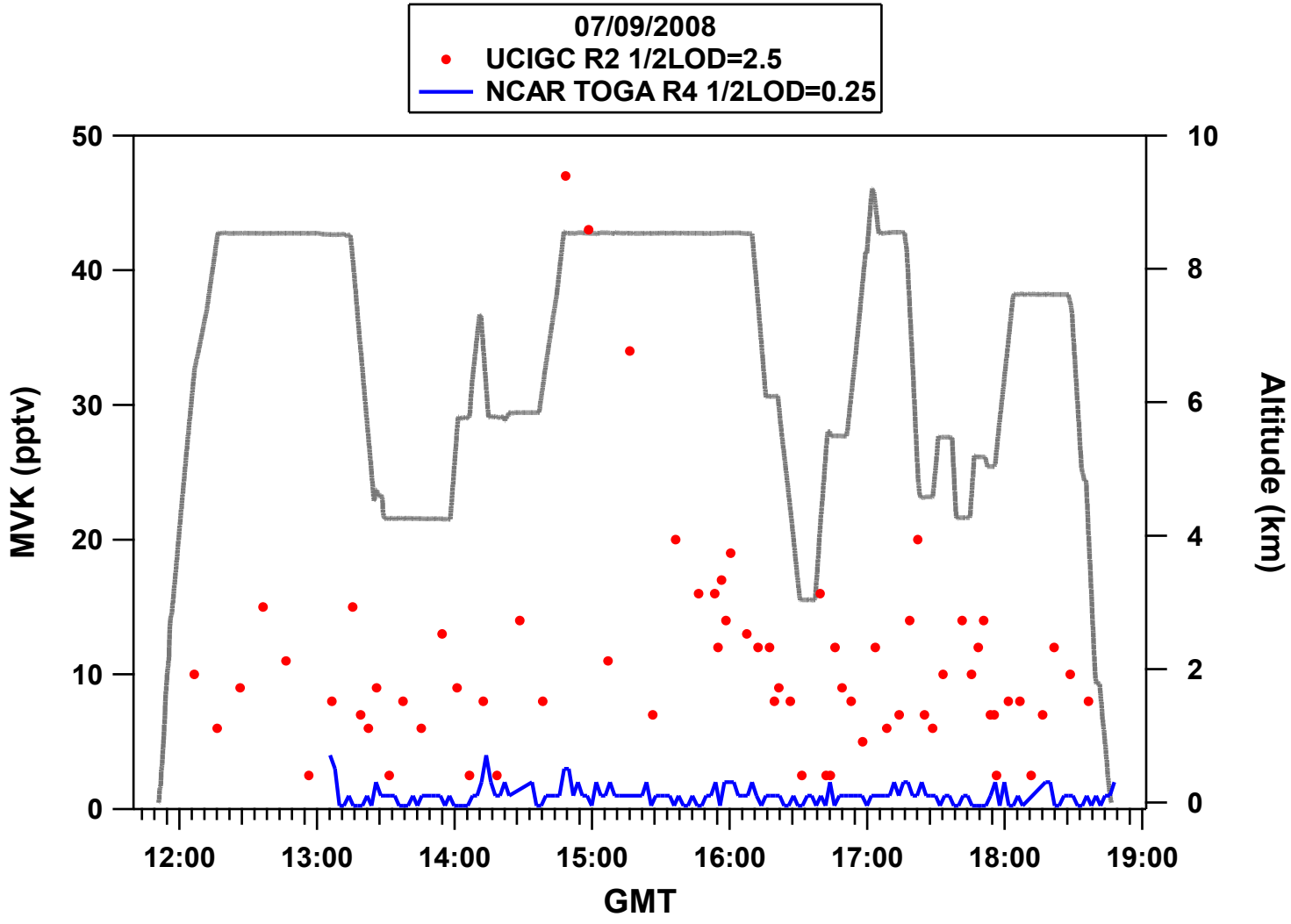

07/09/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=10
PTRMS R1
Methanol (pptv)
0
1000
2000
3000
4000
Altitude (km)
0
2
4
6
8
10
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00
GMT

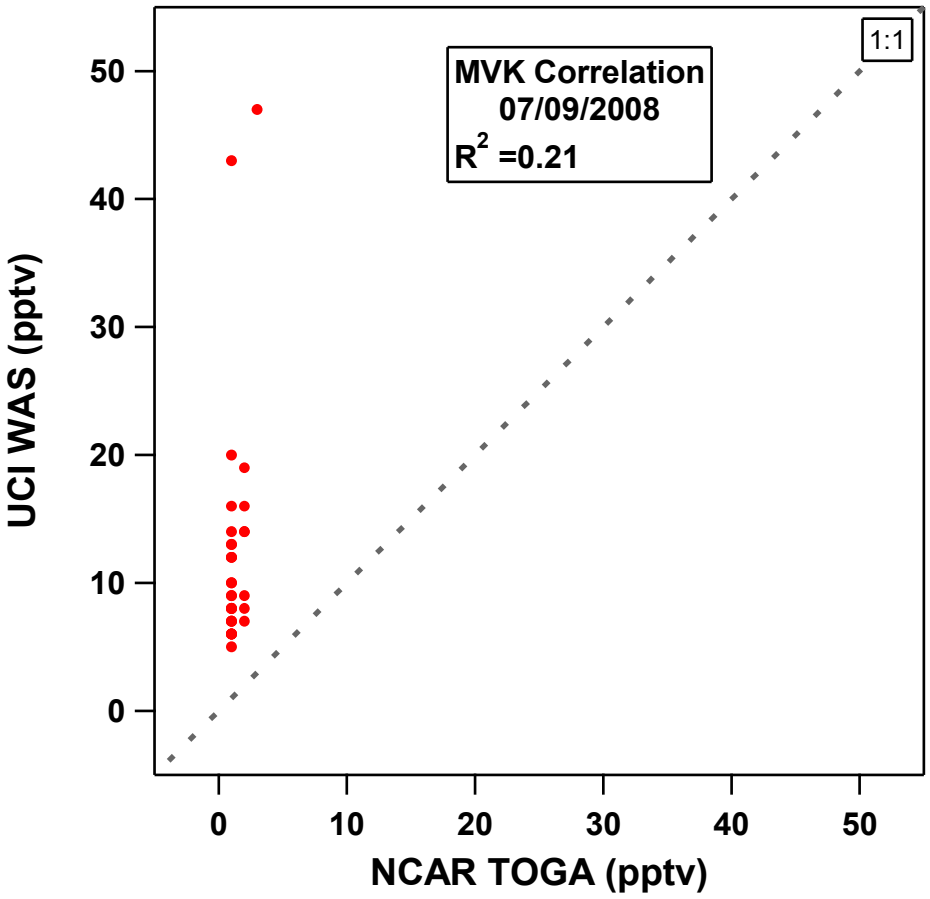

Methanol Correlation
07/09/2008
R2 =0.15
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
0
1000
2000
3000
4000
5000

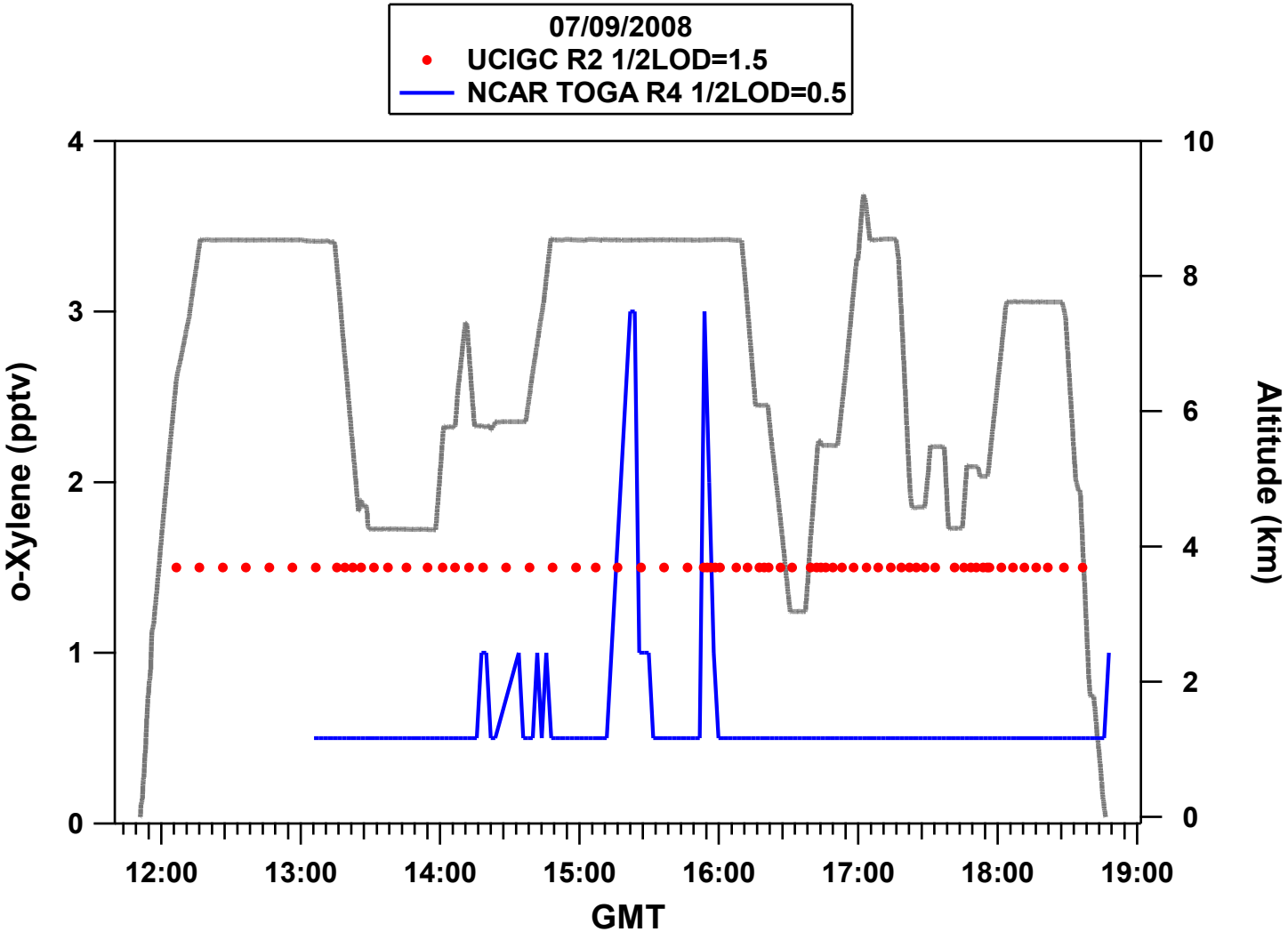

4000
3000
2000
1000
0
UCI WAS (pptv)
0
1000
2000
3000
4000
NCAR PT-RMS (pptv)
1:1
Methanol Correlation
07/09/2008
Slope = 1.02 ± 0.10
Intercept = 193.18 ± 193.16
R2 =0.55

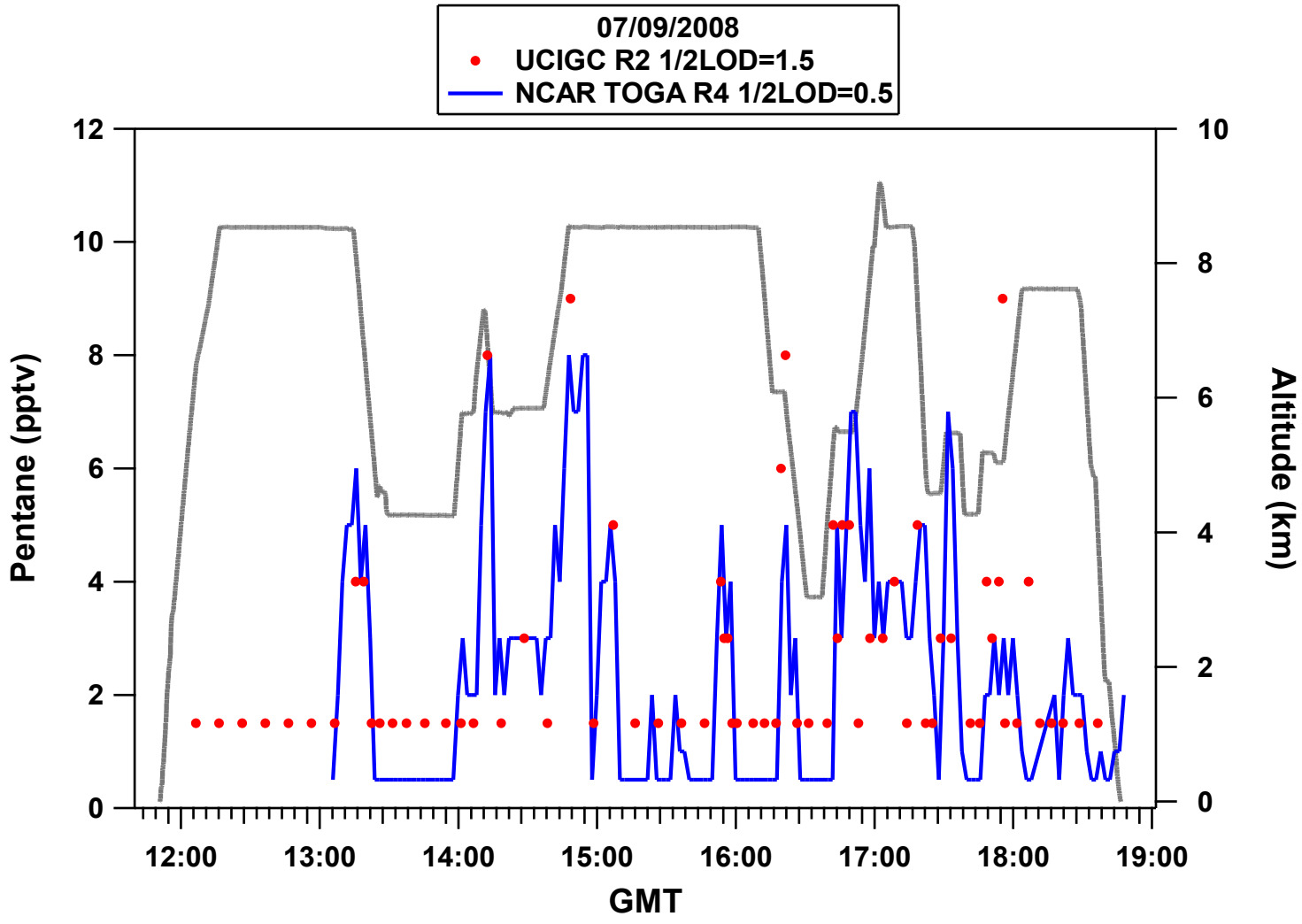

Methanol Correlation
07/09/2008
Slope = 0.73 ± 0.10
Intercept = 340.70 ± 225.45
R2 =0.41
1:1
NCAR PT-RMS (pptv)
NCAR TOGA (pptv)
0
1000
2000
3000
4000

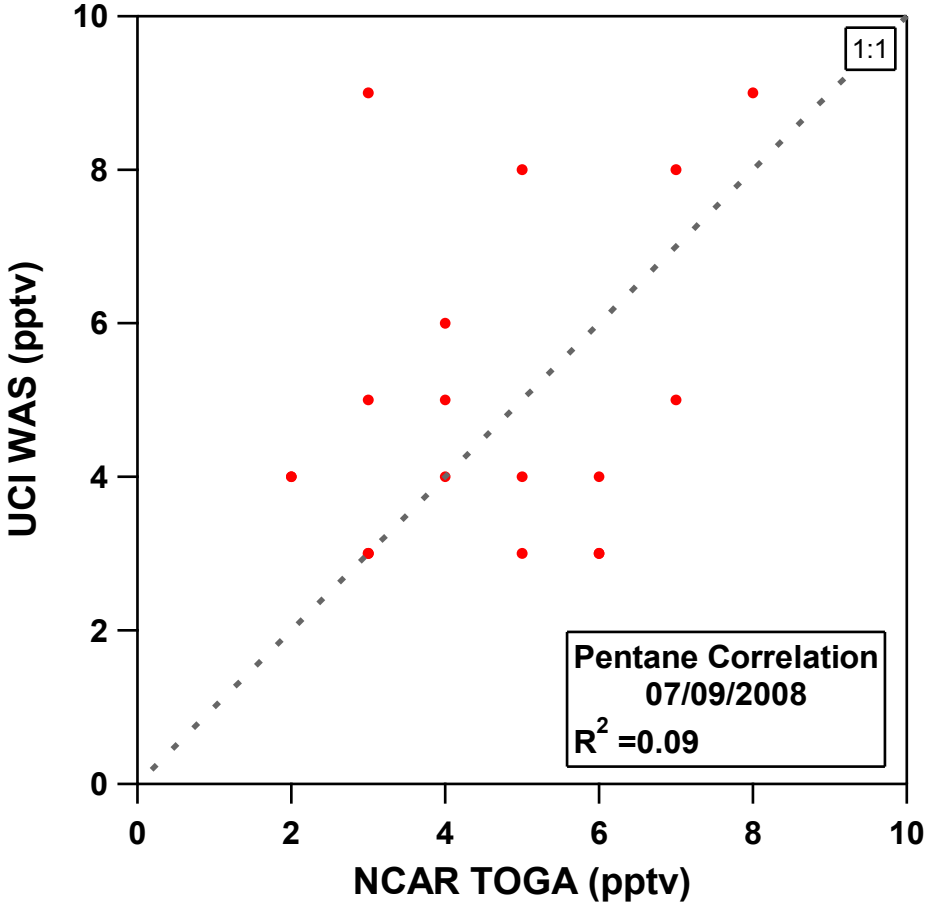

07/09/2008
UCIGC R2 1/2LOD=0.5
NCAR TOGA R4 1/2LOD=0.25
MTBE (pptv)
Altitude (km)
GMT
3.0
2.5
2.0
1.5
1.0
0.5
0.0
10
8
6
4
2
0
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00

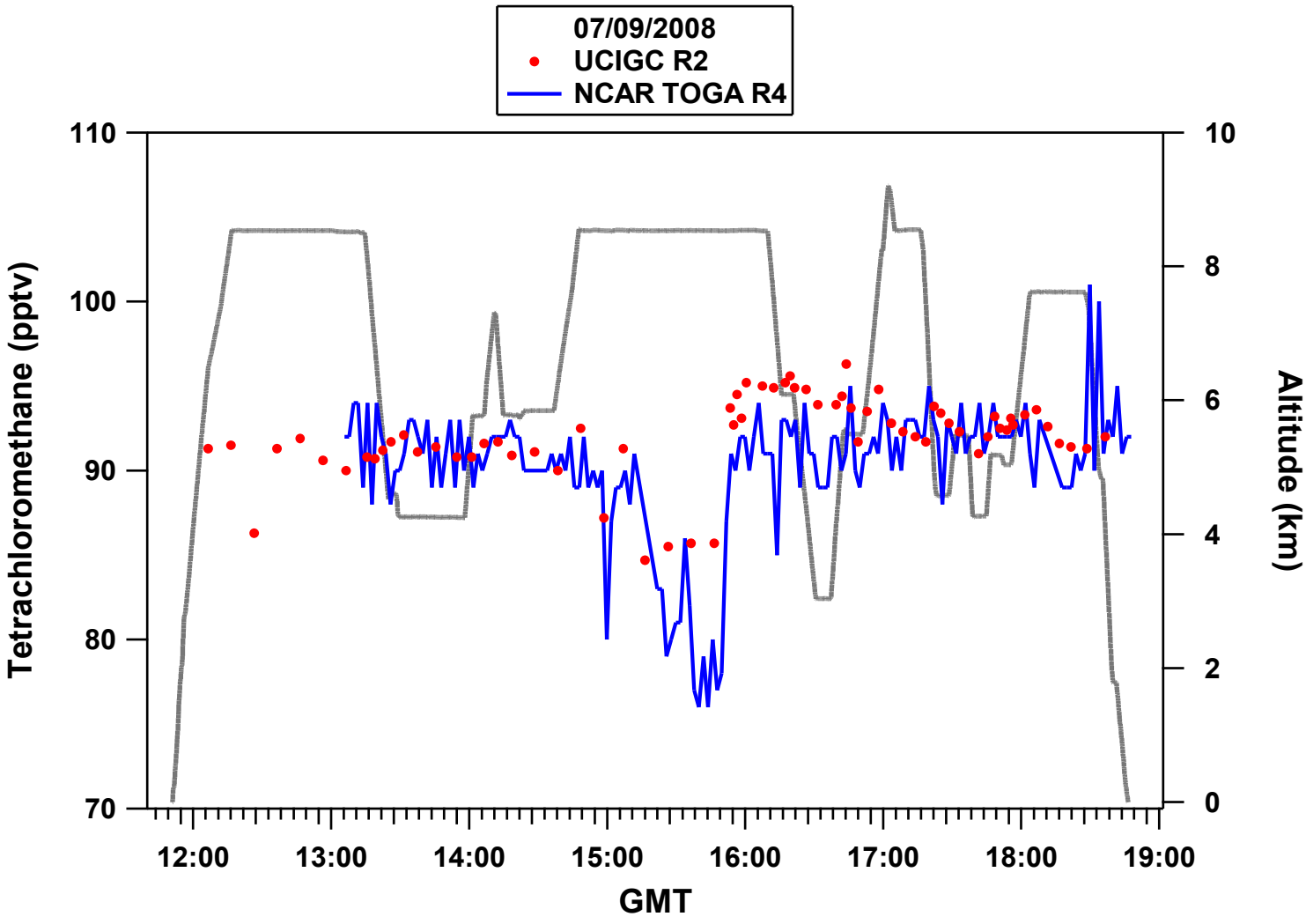

07/09/2008
UCIGC R2 1/2LOD=2.5
NCAR TOGA R4 1/2LOD=0.25
MVK (pptv)
Altitude (km)
GMT
0
10
20
30
40
50
0
2
4
6
8
10
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00

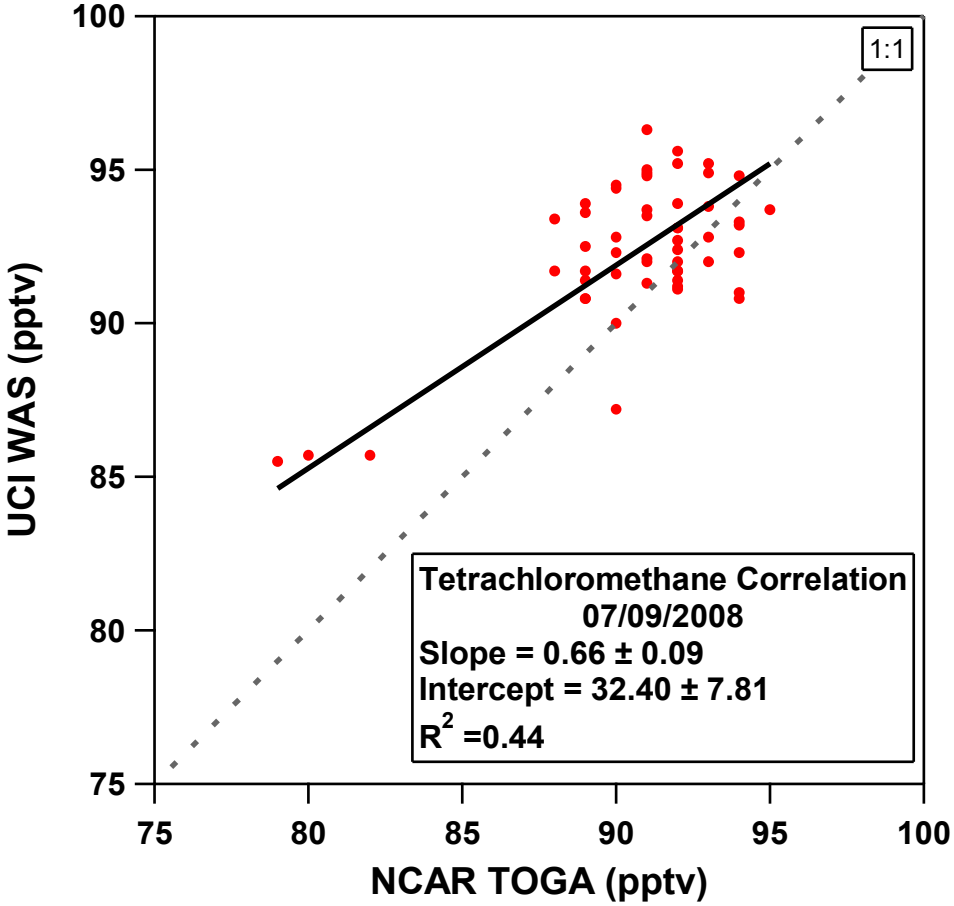

MVK Correlation
07/09/2008
R2 =0.21
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
0
10
20
30
40
50

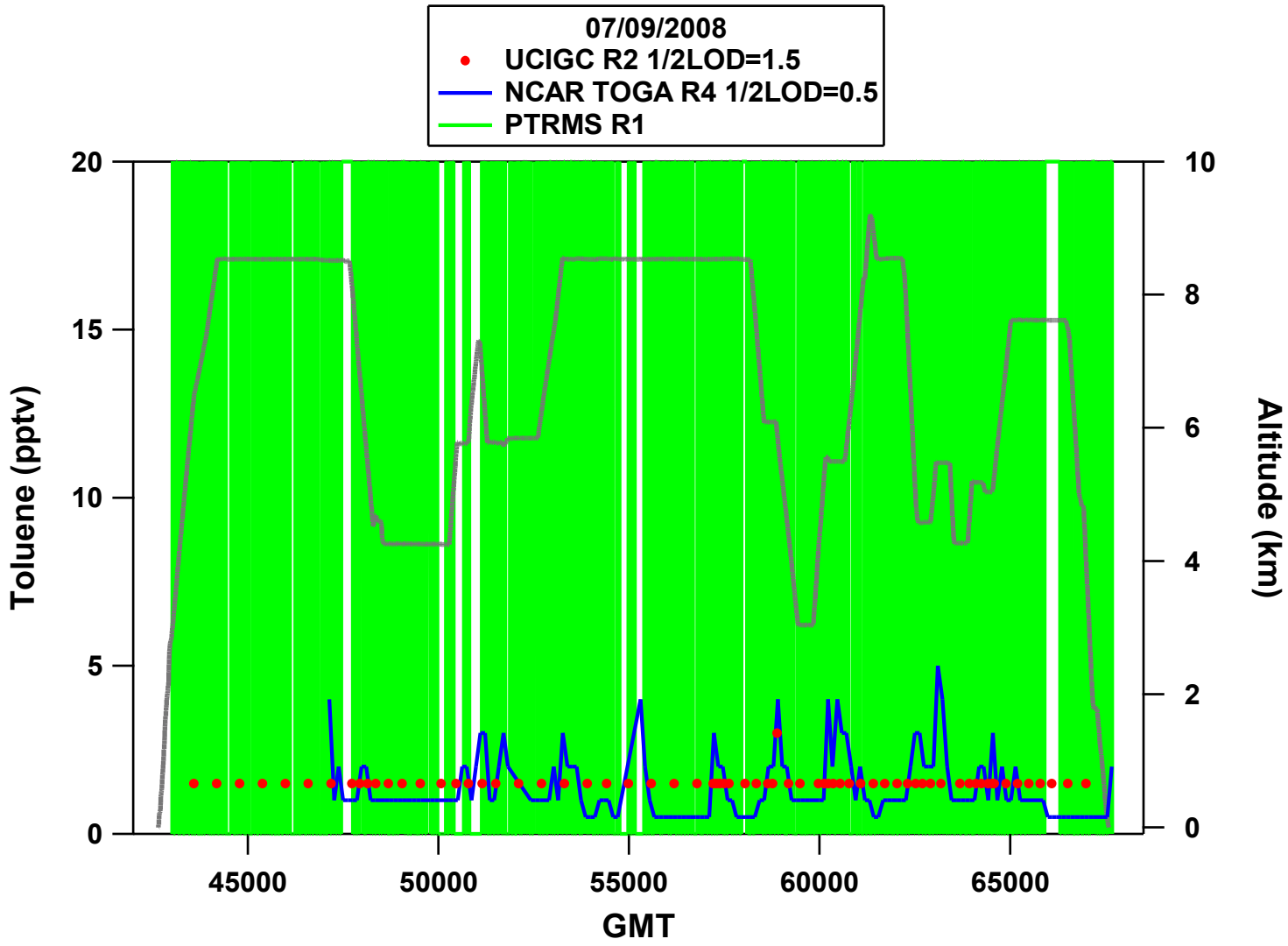

07/09/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
o-Xylene (pptv)
Altitude (km)
GMT
0
1
2
3
4
0
2
4
6
8
10
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00

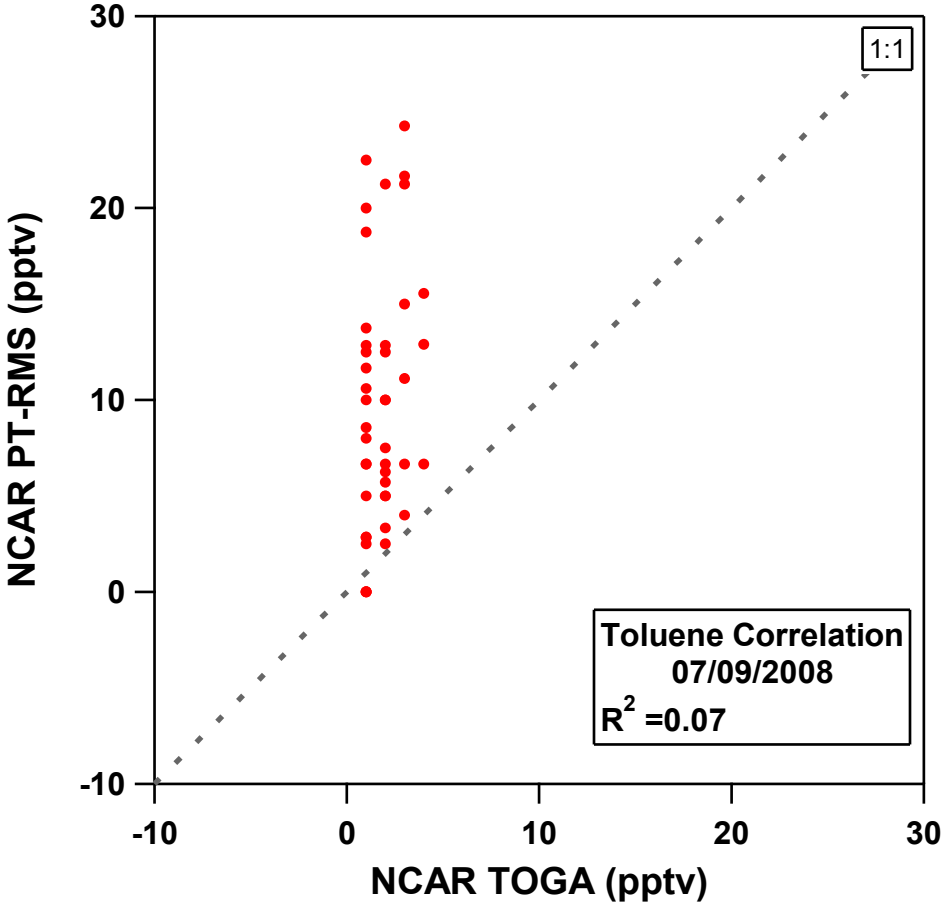

07/09/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
Pentane (pptv)
Altitude (km)
GMT
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00
0
2
4
6
8
10
12


1:1
Pentane Correlation
07/09/2008
R2 =0.09
UCI WAS (pptv)
NCAR TOGA (pptv)
0
2
4
6
8
10


07/09/2008
UCIGC R2
NCAR TOGA R4
Tetrachloromethane (pptv)
Altitude (km)
GMT
110
100
90
80
70
10
8
6
4
2
0
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00


1:1
Tetrachloromethane Correlation
07/09/2008
Slope = 0.66 ± 0.09
Intercept = 32.40 ± 7.81
R2 =0.44
UCI WAS (pptv)
NCAR TOGA (pptv)
100
95
90
85
80
75
75
80
85
90
95
100


07/09/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
PTRMS R1
Toluene (pptv)
Altitude (km)
GMT
0
5
10
15
20
0
2
4
6
8
10
45000
50000
55000
60000
65000


1:1
Toluene Correlation
07/09/2008
R2 =0.07
NCAR PT-RMS (pptv)
NCAR TOGA (pptv)
30
20
10
0
-10
-10
0
10
20
30