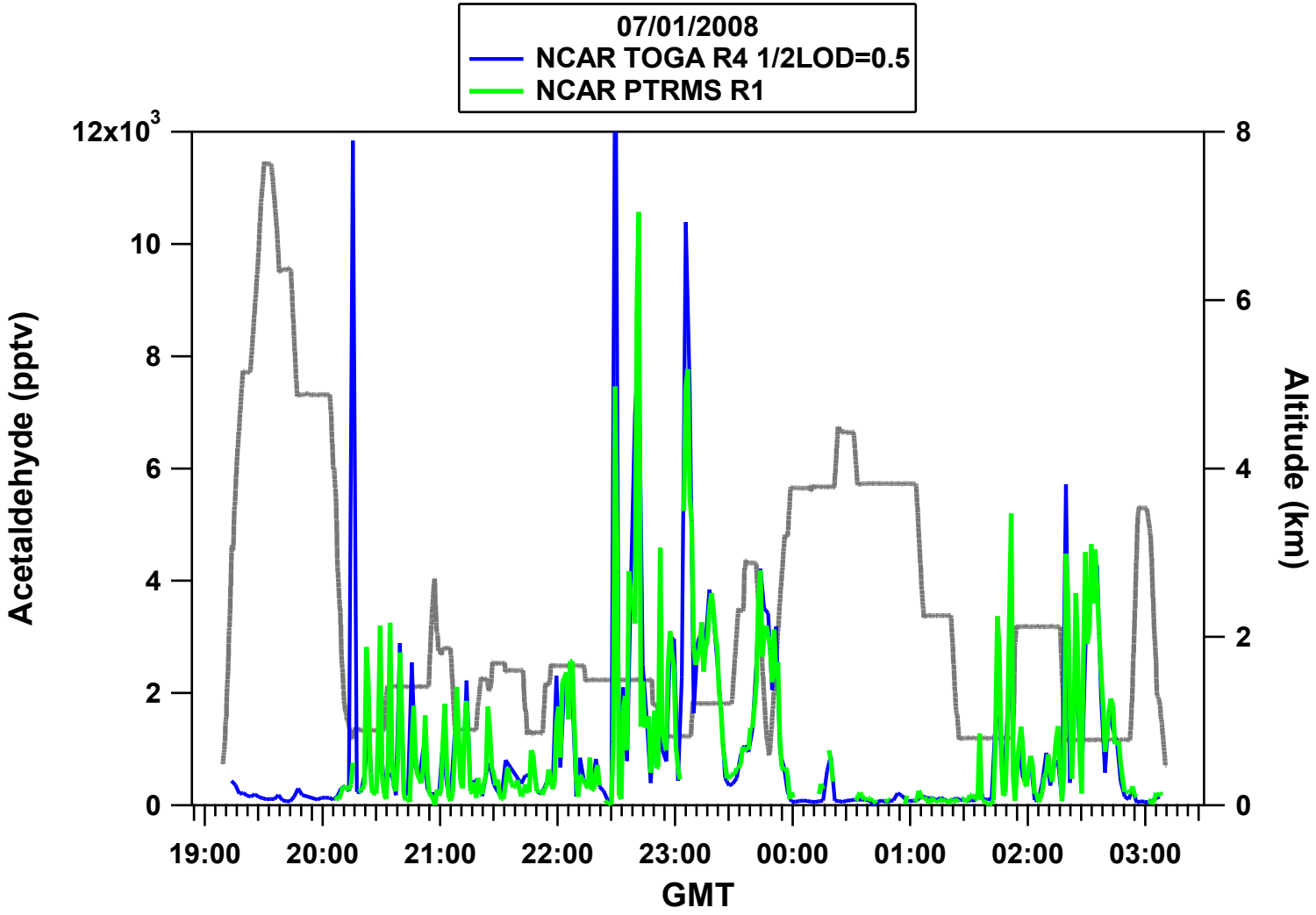
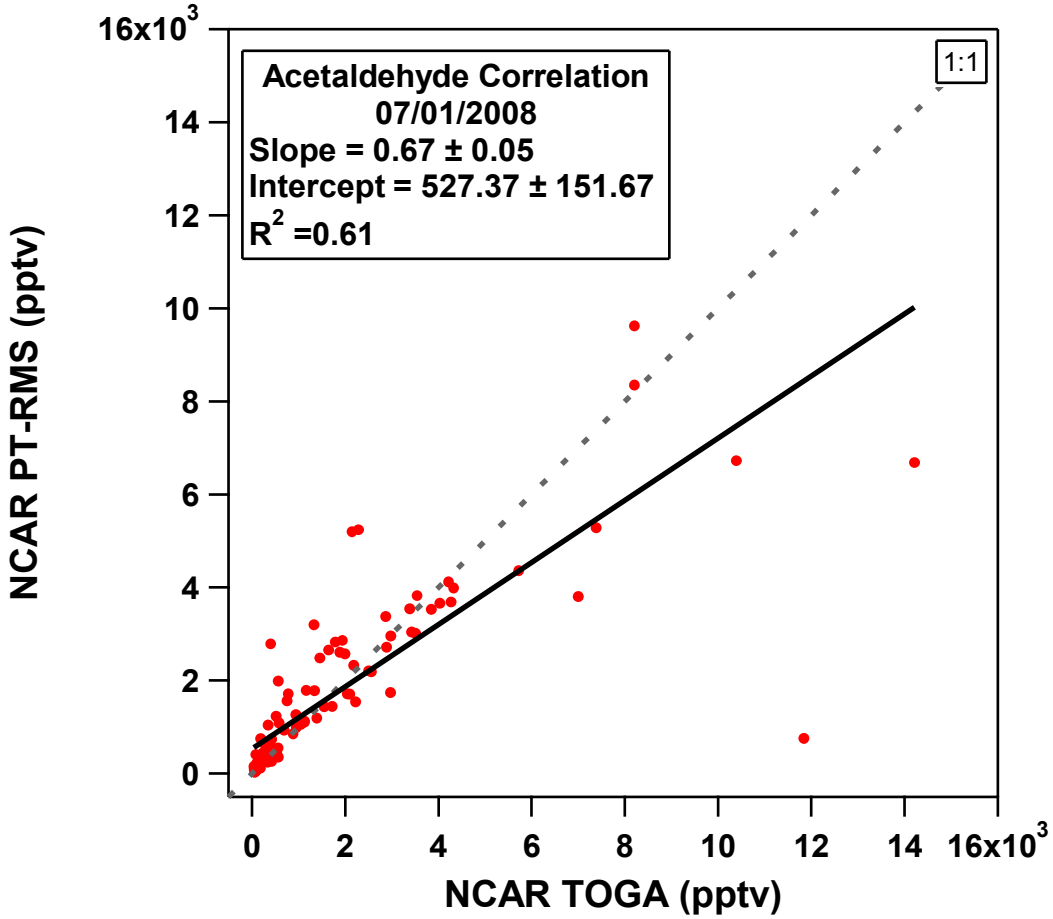
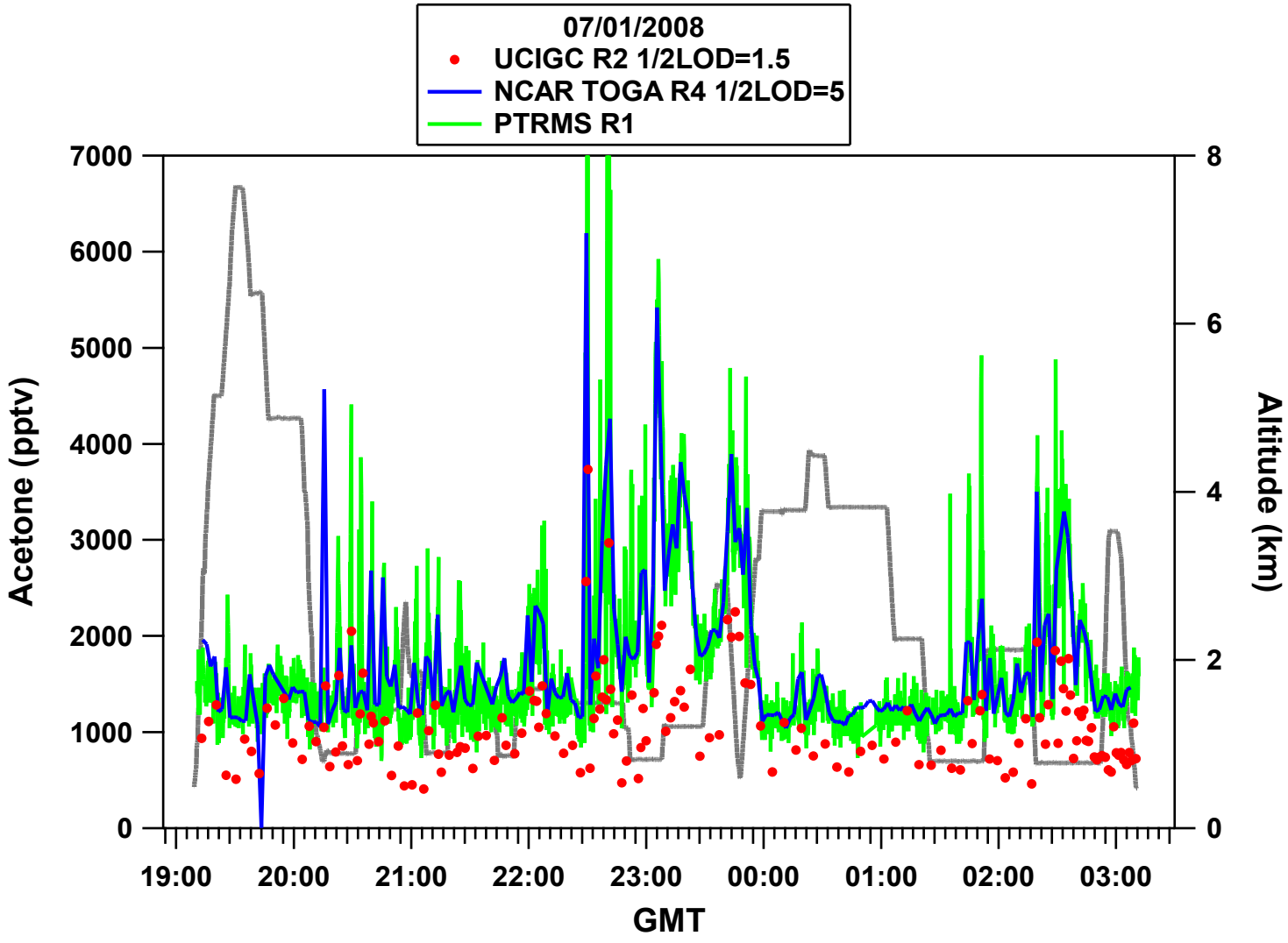
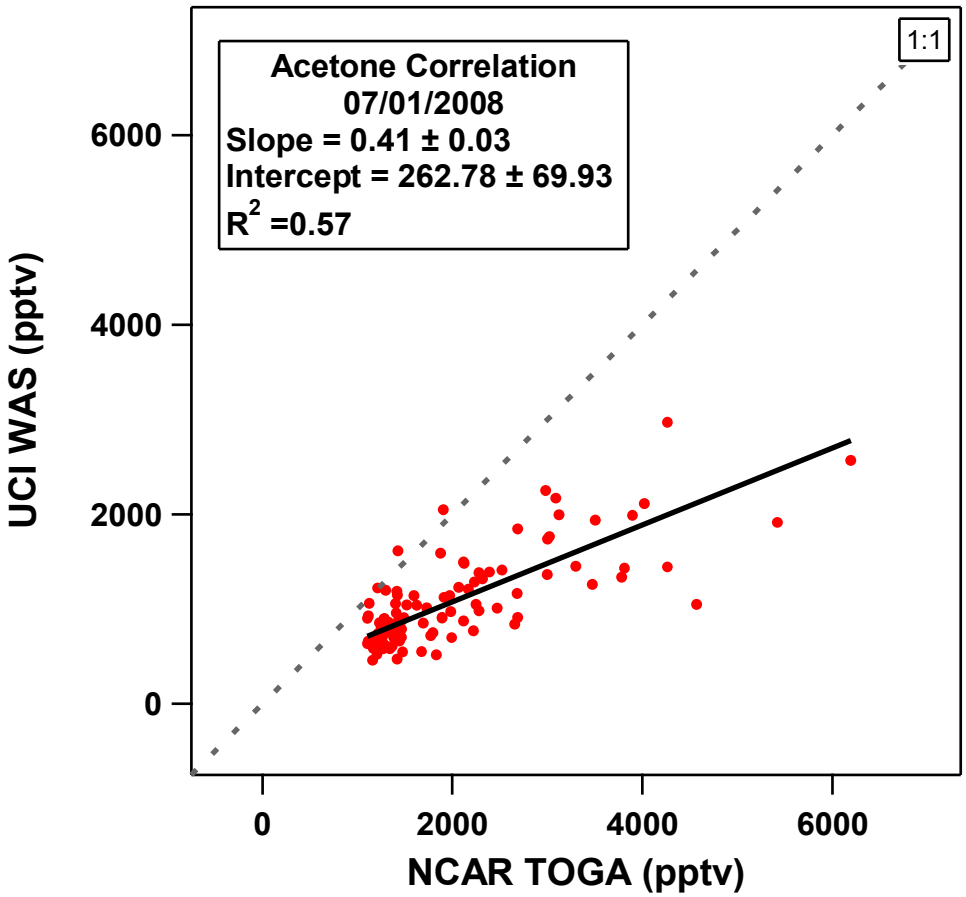
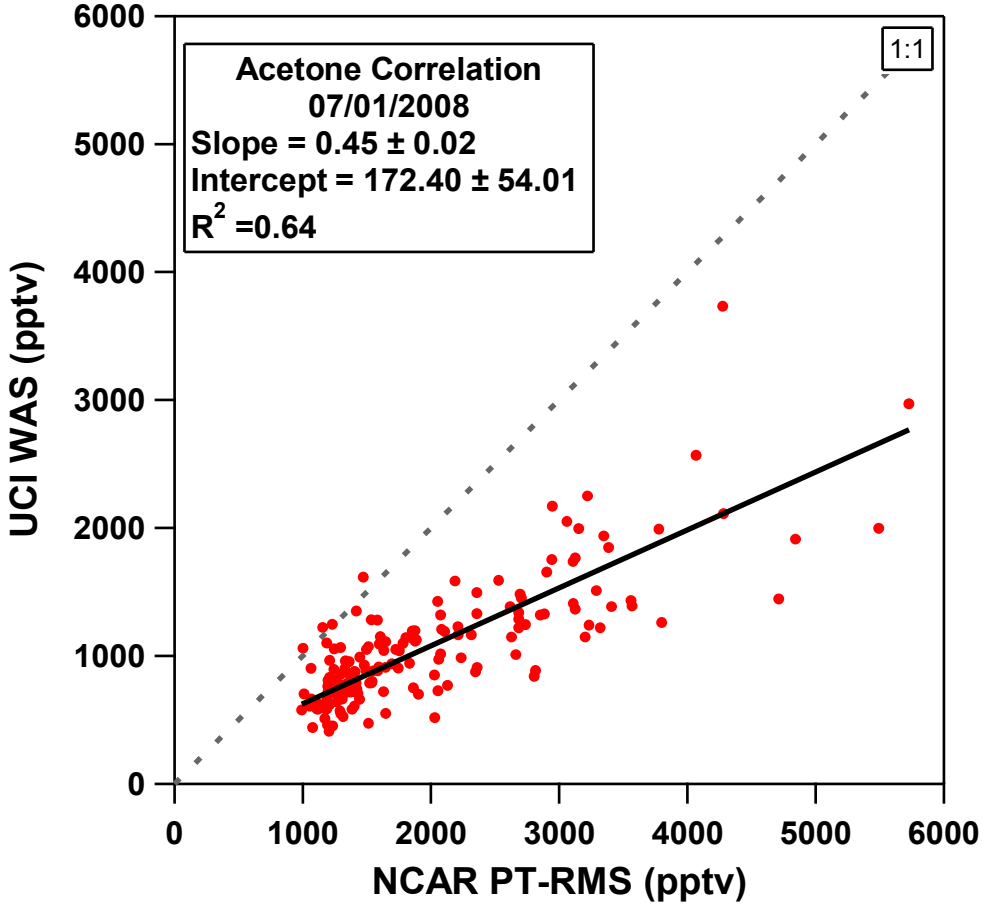
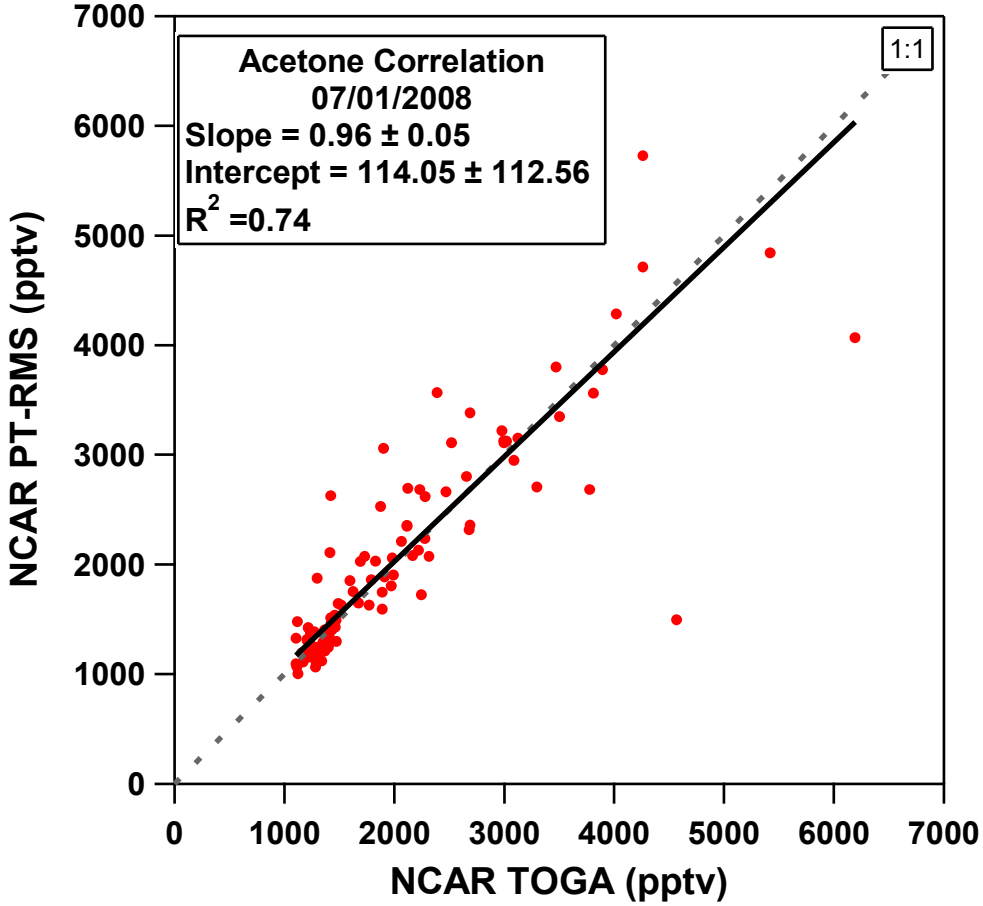

07/01/2008
NCAR TOGA R4 1/2LOD=0.5
NCAR PTRMS R1
12x10^3
10
8
6
4
2
0
Acetaldehyde (pptv)
8
6
4
2
0
Altitude (km)
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00
GMT

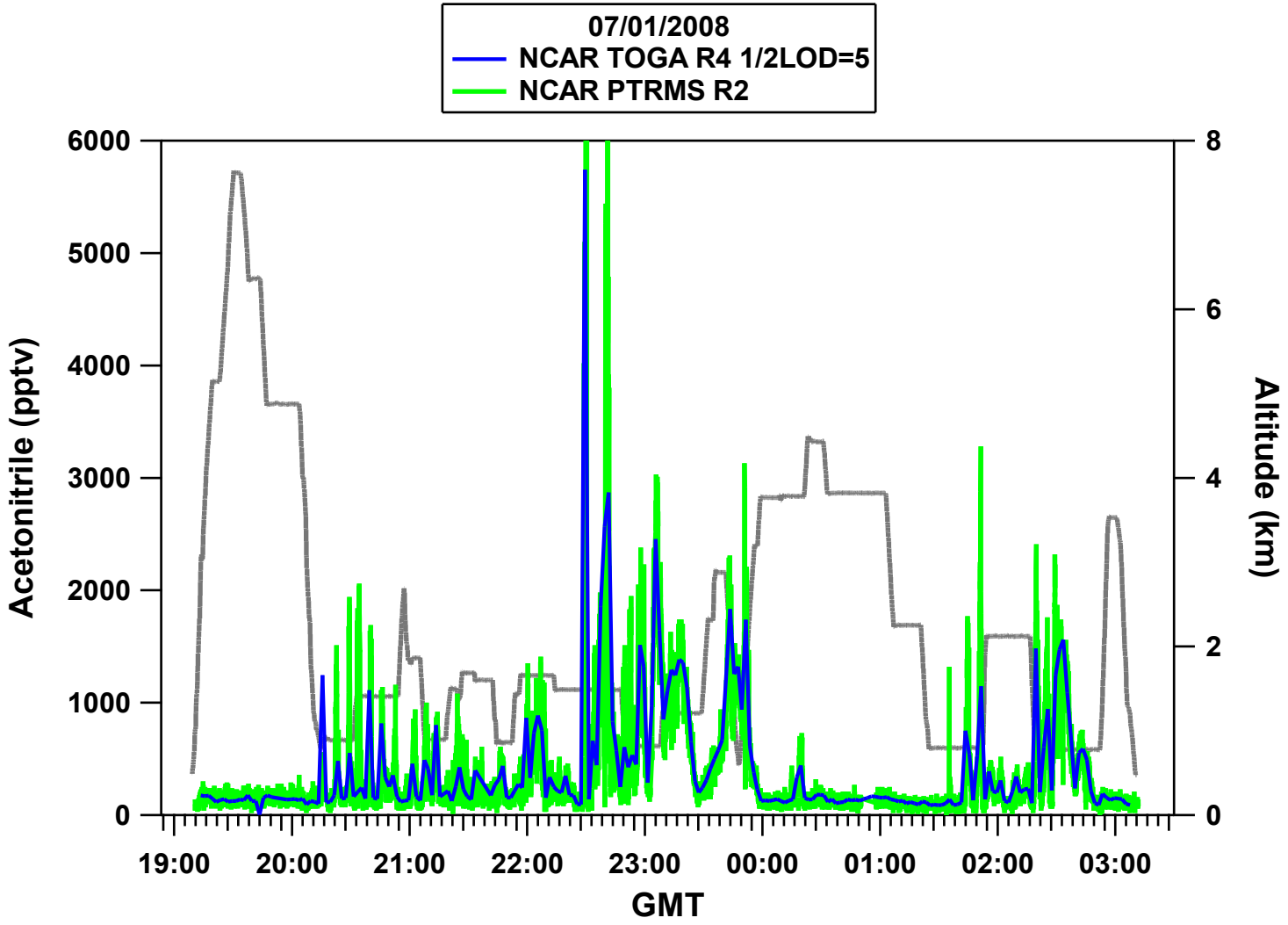

Acetaldehyde Correlation
07/01/2008
Slope = 0.67 ± 0.05
Intercept = 527.37 ± 151.67
R2 =0.61
1:1
NCAR PT-RMS (pptv)
NCAR TOGA (pptv)
16x10^3
14
12
10
8
6
4
2
0
0
2
4
6
8
10
12
14
16x10^3

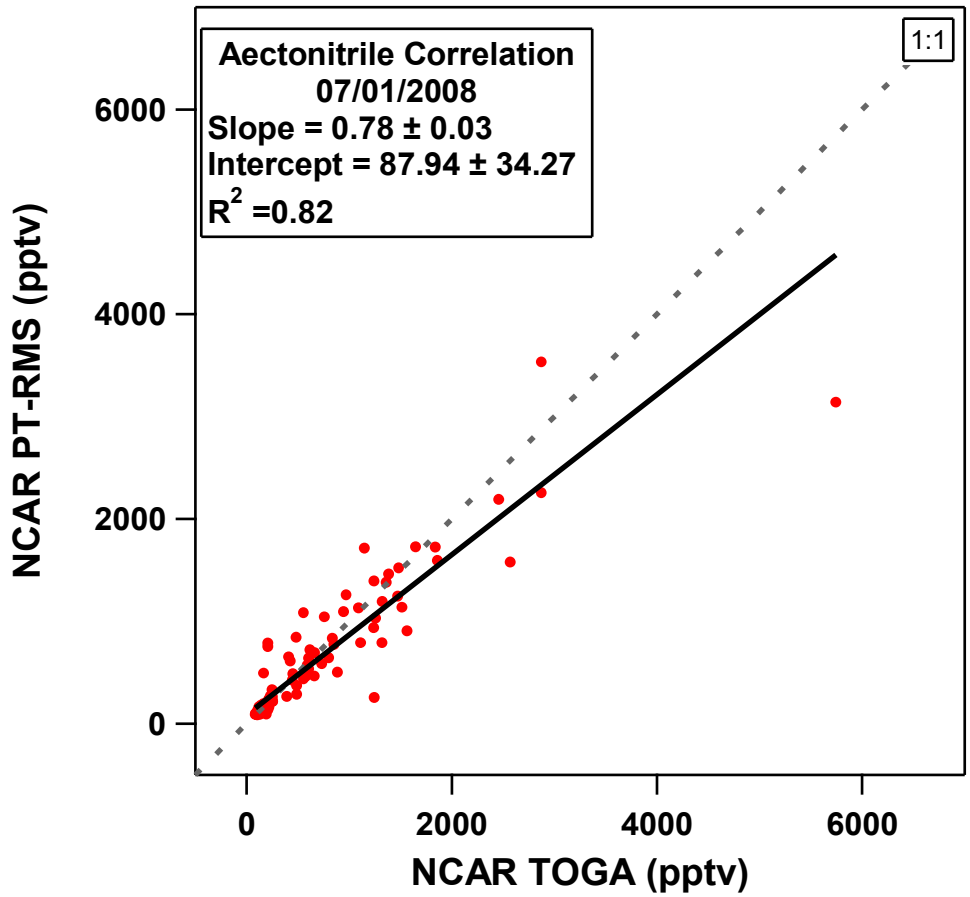

07/01/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=5
PTRMS R1
Acetone (pptv)
Altitude (km)
GMT
0
1000
2000
3000
4000
5000
6000
7000
0
2
4
6
8
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00

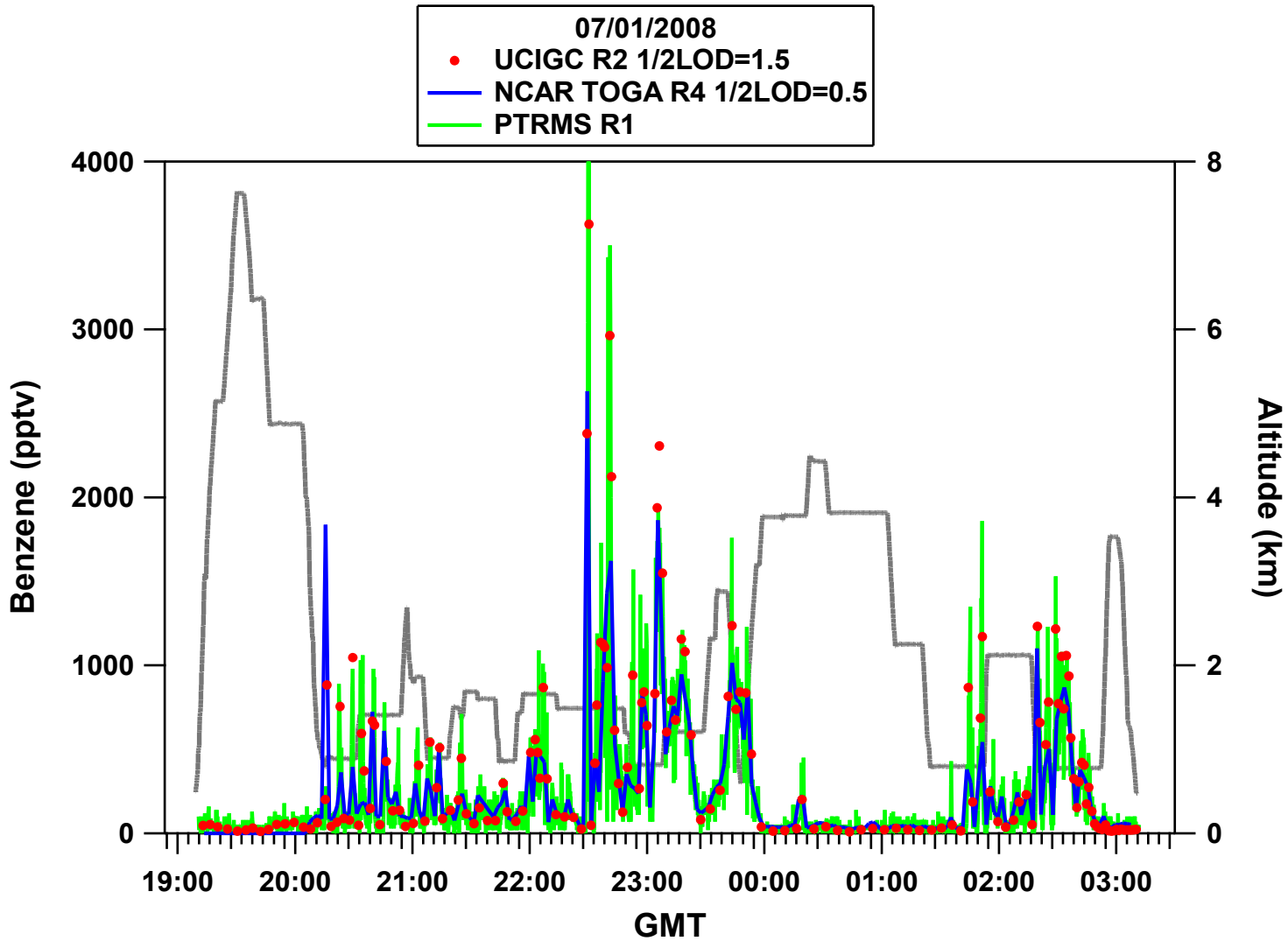

Acetone Correlation
07/01/2008
Slope = 0.41 ± 0.03
Intercept = 262.78 ± 69.93
R2 =0.57
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
0
2000
4000
6000

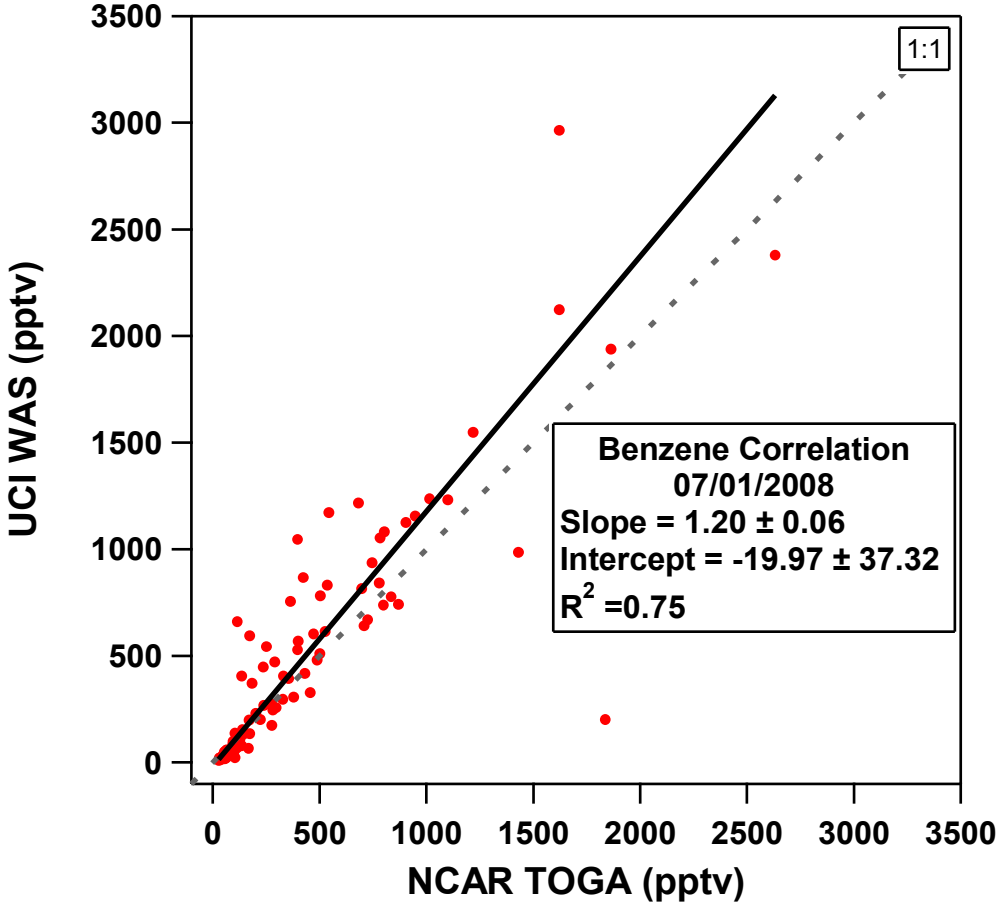

Acetone Correlation
07/01/2008
Slope = 0.45 ± 0.02
Intercept = 172.40 ± 54.01
R2 =0.64
1:1
UCI WAS (pptv)
NCAR PT-RMS (pptv)
0
1000
2000
3000
4000
5000
6000

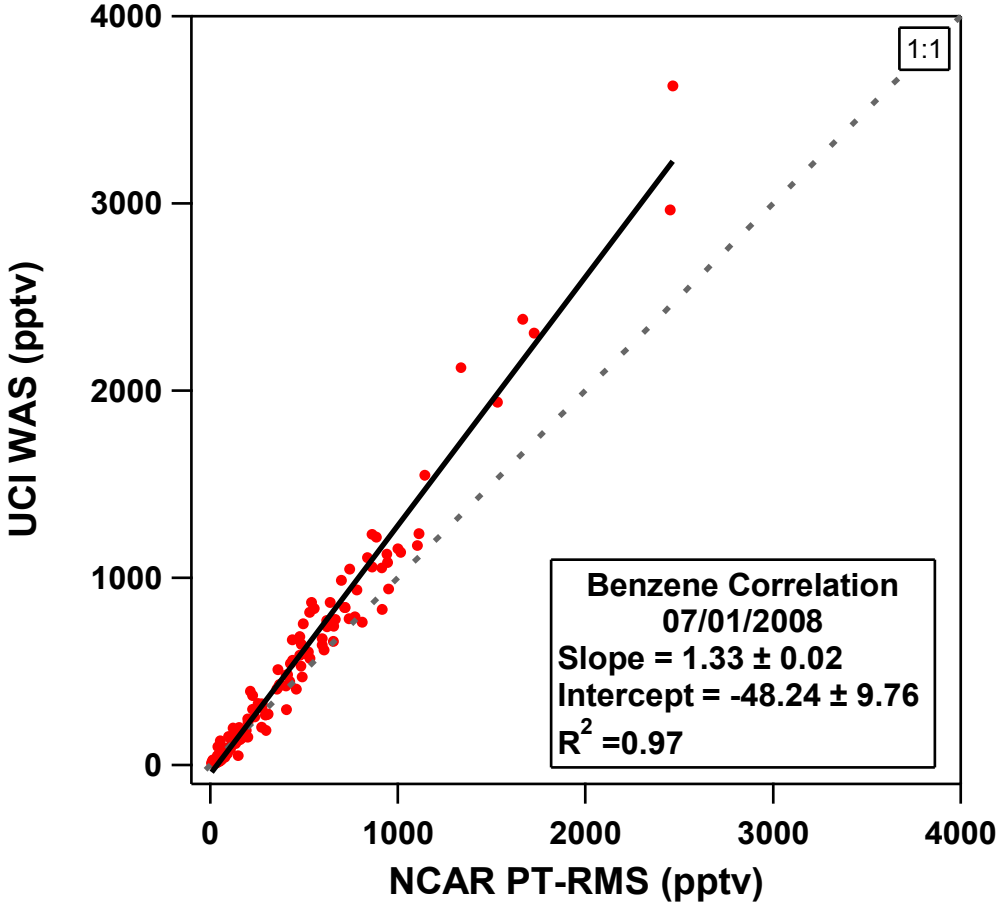

Acetone Correlation
07/01/2008
Slope = 0.96 ± 0.05
Intercept = 114.05 ± 112.56
R2 =0.74
1:1
NCAR PT-RMS (pptv)
NCAR TOGA (pptv)
0
1000
2000
3000
4000
5000
6000
7000

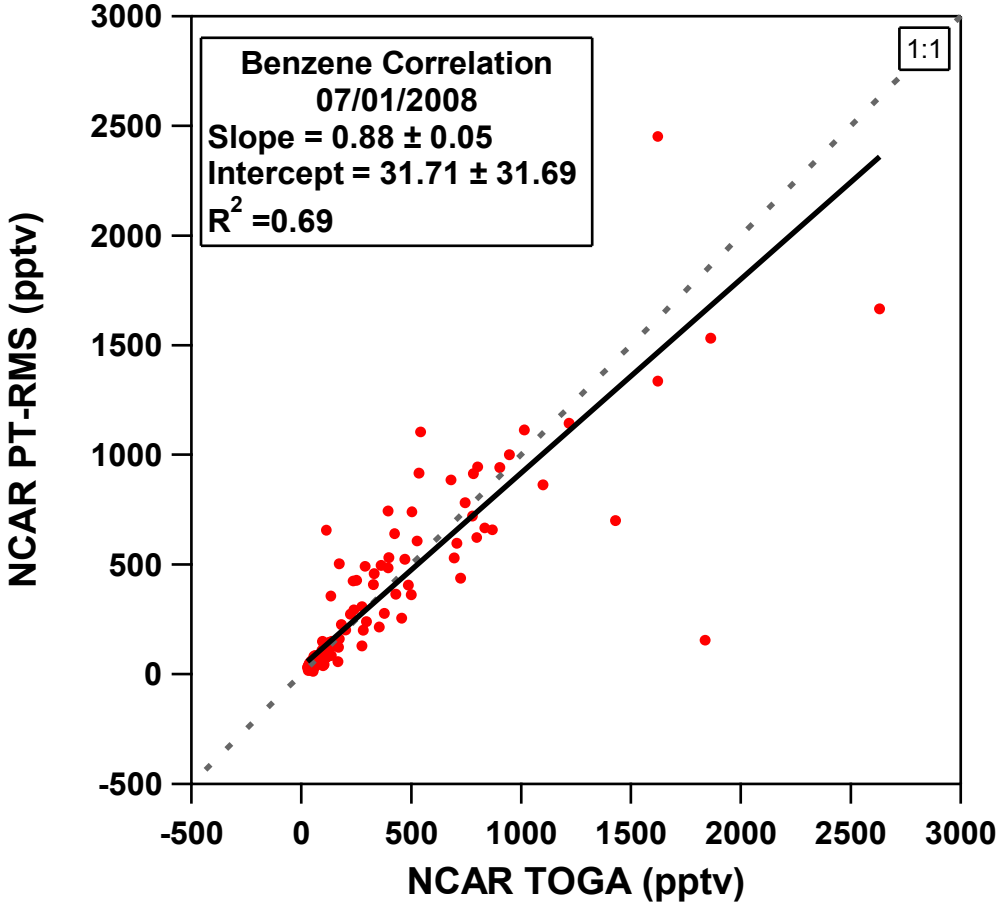

07/01/2008
NCAR TOGA R4 1/2LOD=5
NCAR PTRMS R2
Acetonitrile (pptv)
Altitude (km)
GMT
6000
5000
4000
3000
2000
1000
0
8
6
4
2
0
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00

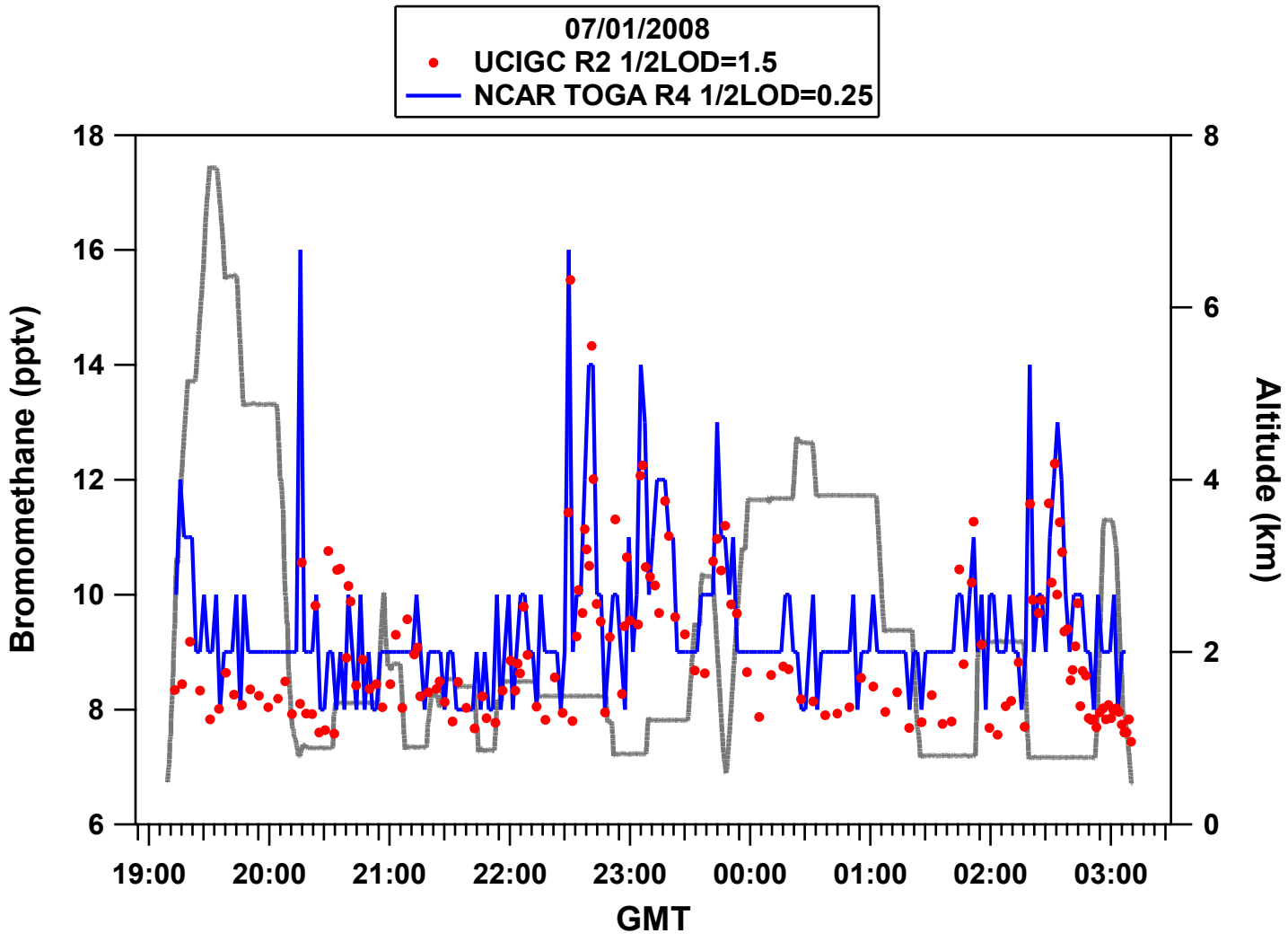

Aectonitrile Correlation
07/01/2008
Slope = 0.78 ± 0.03
Intercept = 87.94 ± 34.27
R2 =0.82
1:1
NCAR PT-RMS (pptv)
NCAR TOGA (pptv)
0
2000
4000
6000

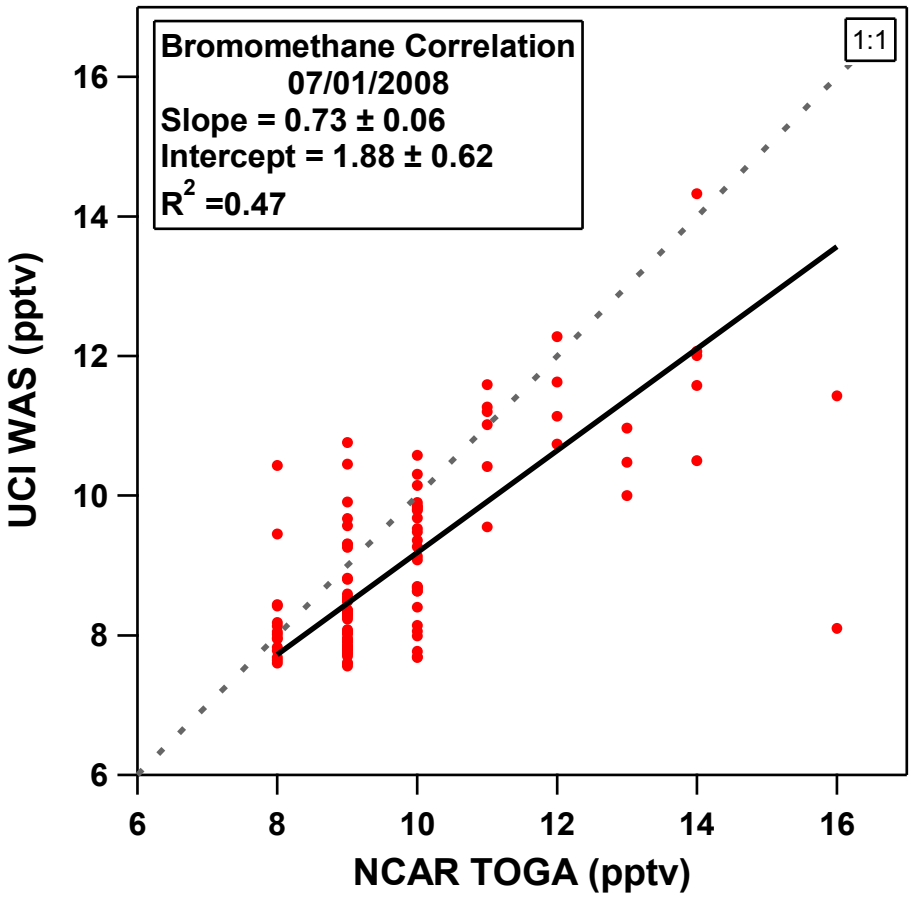

07/01/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
PTRMS R1
Benzene (pptv)
Altitude (km)
GMT
4000
3000
2000
1000
0
8
6
4
2
0
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00

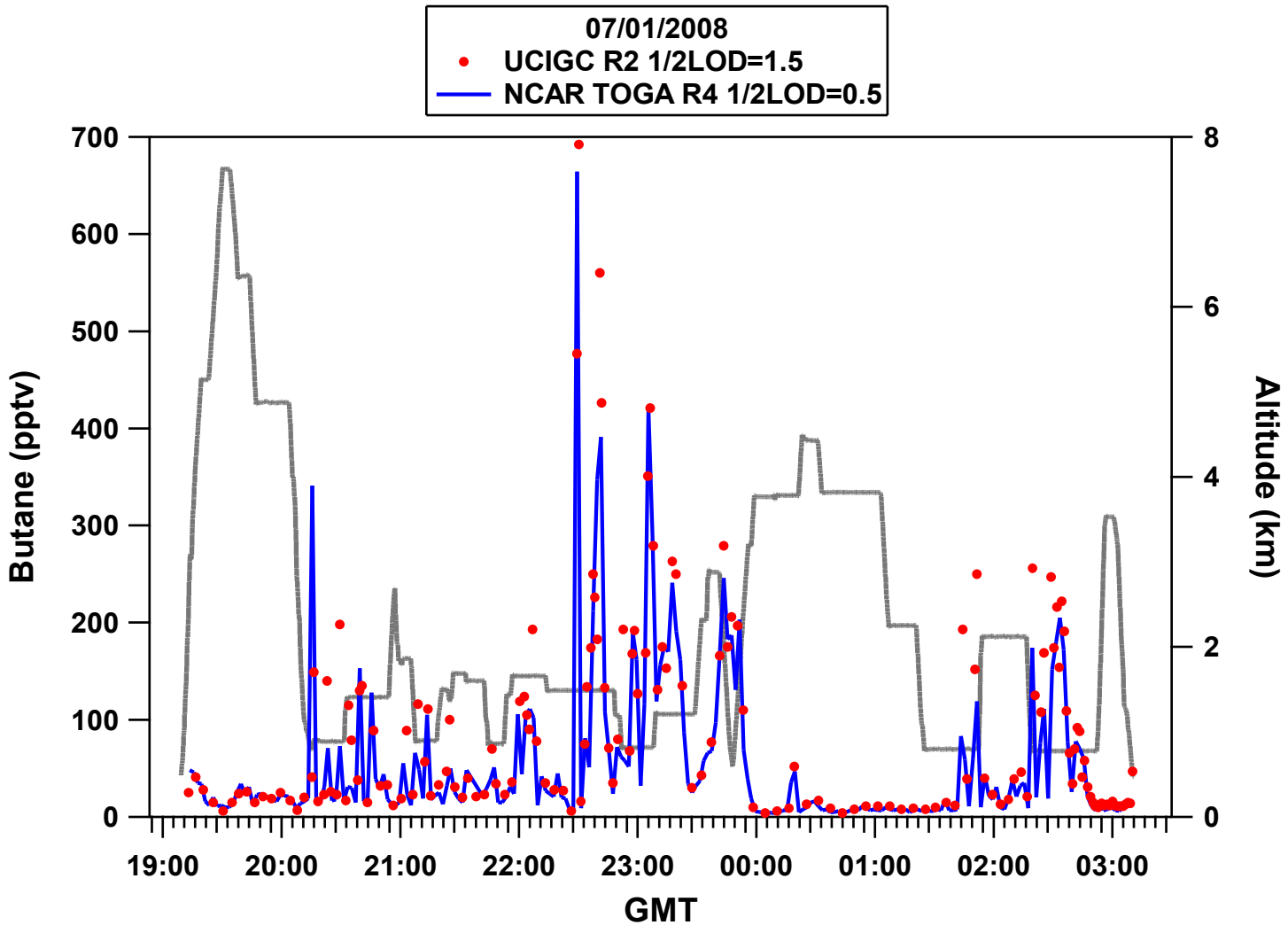

Benzene Correlation
07/01/2008
Slope = 1.20 ± 0.06
Intercept = -19.97 ± 37.32
R2 =0.75
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
0
500
1000
1500
2000
2500
3000
3500

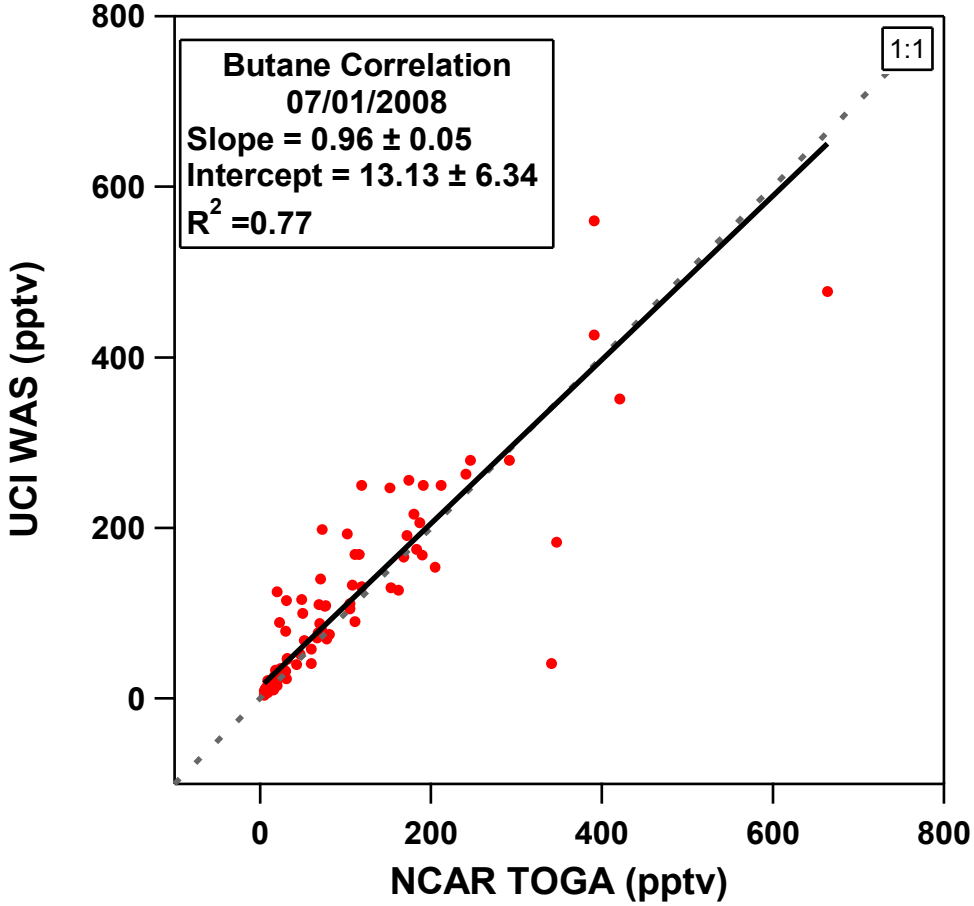

4000
3000
2000
1000
0
UCI WAS (pptv)
0
1000
2000
3000
4000
NCAR PT-RMS (pptv)
1:1
Benzene Correlation
07/01/2008
Slope = 1.33 ± 0.02
Intercept = -48.24 ± 9.76
R2 =0.97

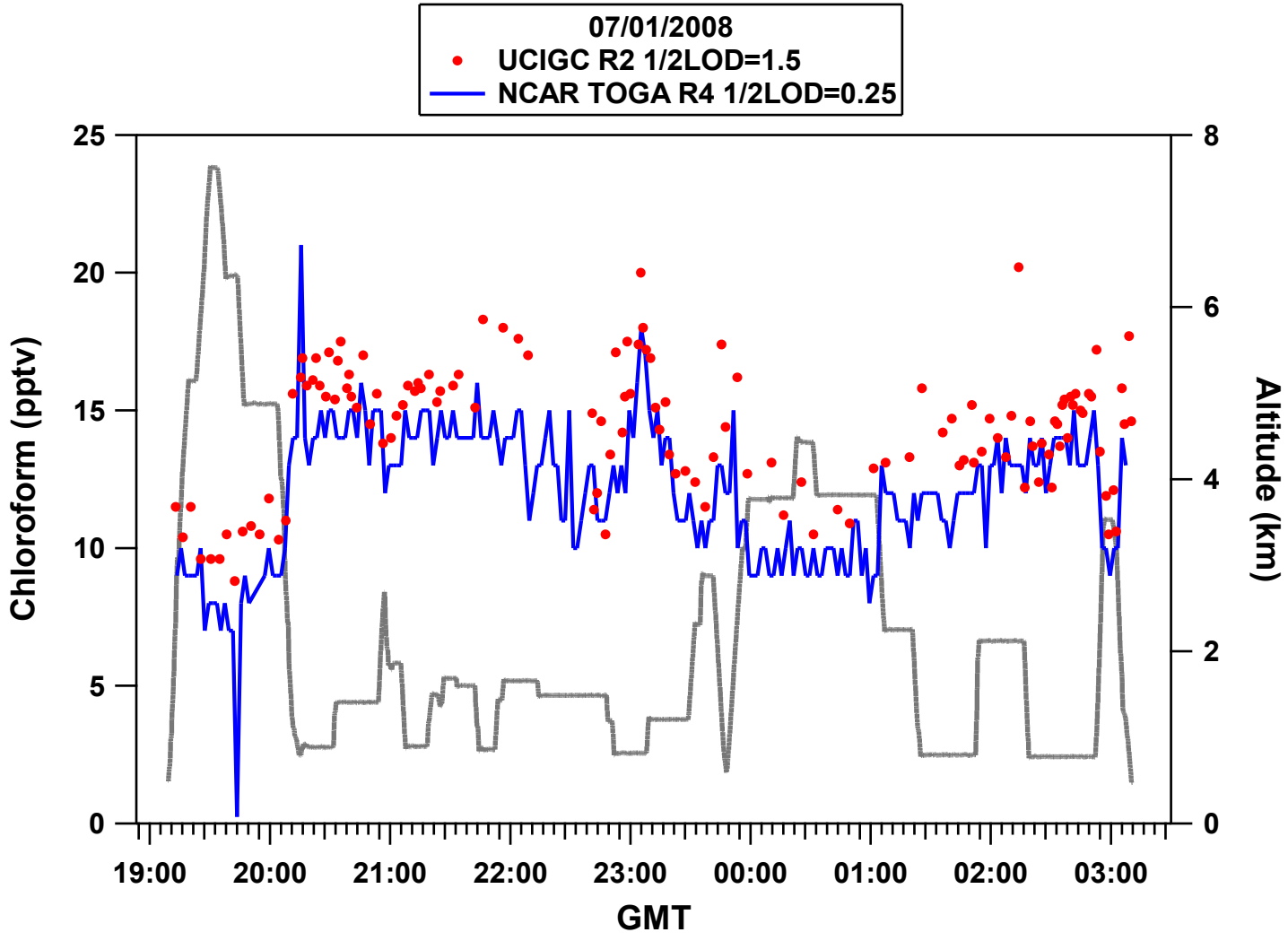

Benzene Correlation
07/01/2008
Slope = 0.88 ± 0.05
Intercept = 31.71 ± 31.69
R2 =0.69
1:1
NCAR PT-RMS (pptv)
NCAR TOGA (pptv)
3000
2500
2000
1500
1000
500
0
-500
-500
0
500
1000
1500
2000
2500
3000

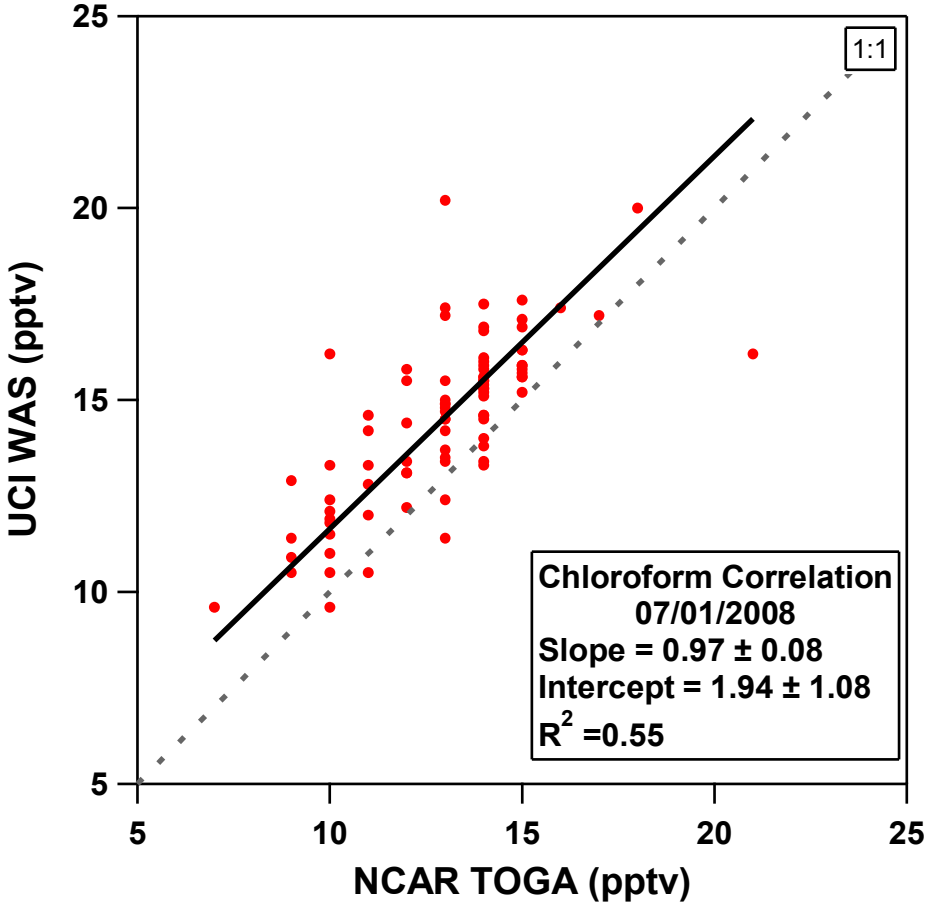

07/01/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.25
Bromomethane (pptv)
Altitude (km)
GMT
18
16
14
12
10
8
6
8
6
4
2
0
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00

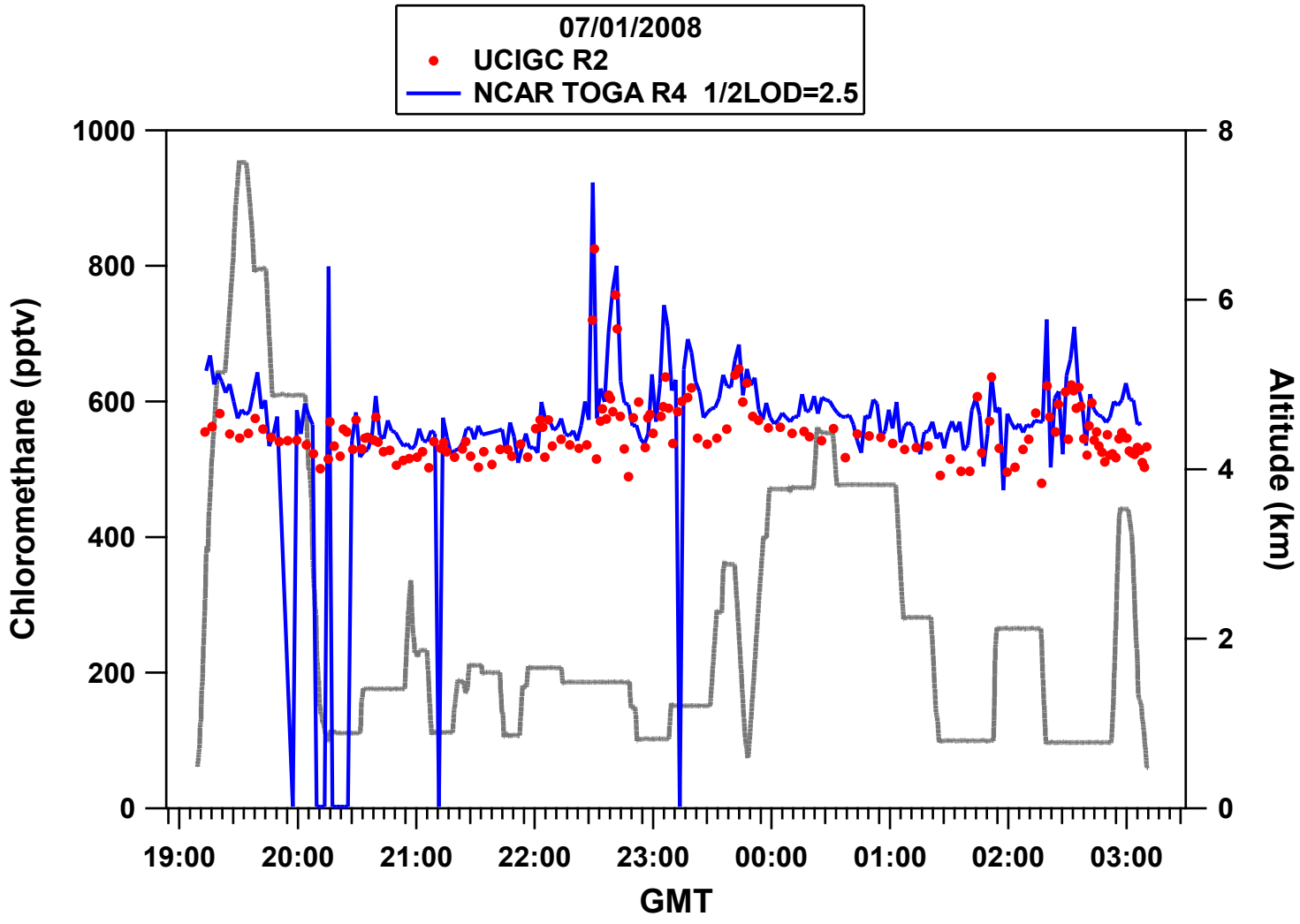

Bromomethane Correlation
07/01/2008
Slope = 0.73 ± 0.06
Intercept = 1.88 ± 0.62
R2 =0.47
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
6
8
10
12
14
16

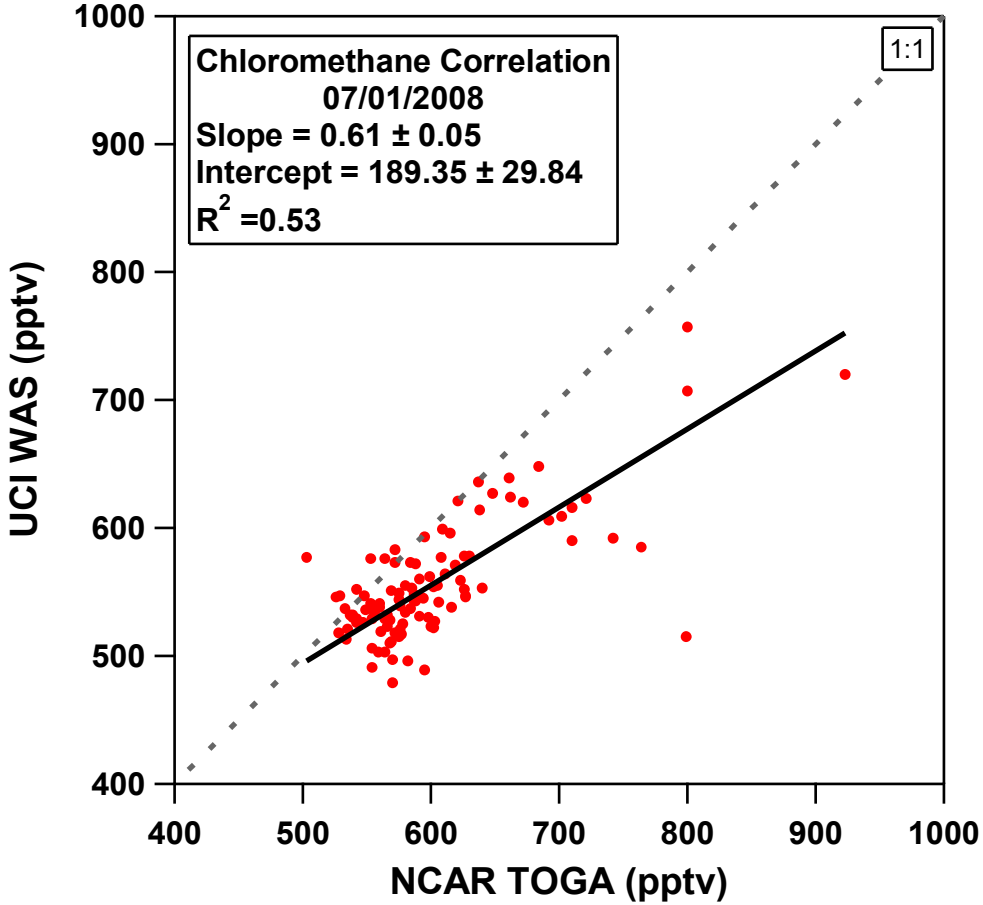

07/01/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
Butane (pptv)
Altitude (km)
GMT
700
600
500
400
300
200
100
0
8
6
4
2
0
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00

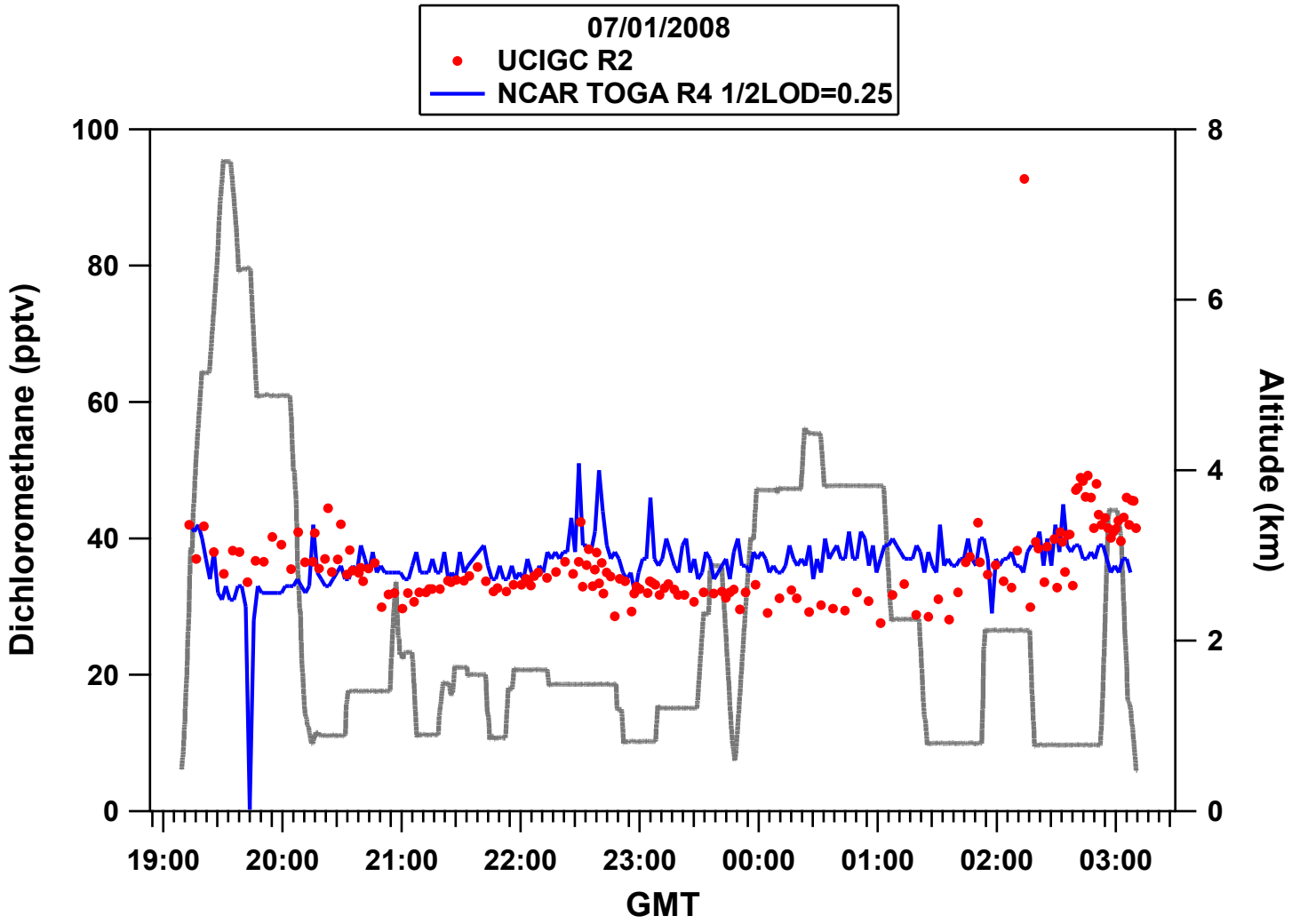

Butane Correlation
07/01/2008
Slope = 0.96 ± 0.05
Intercept = 13.13 ± 6.34
R2 =0.77
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
800
600
400
200
0
0
200
400
600
800

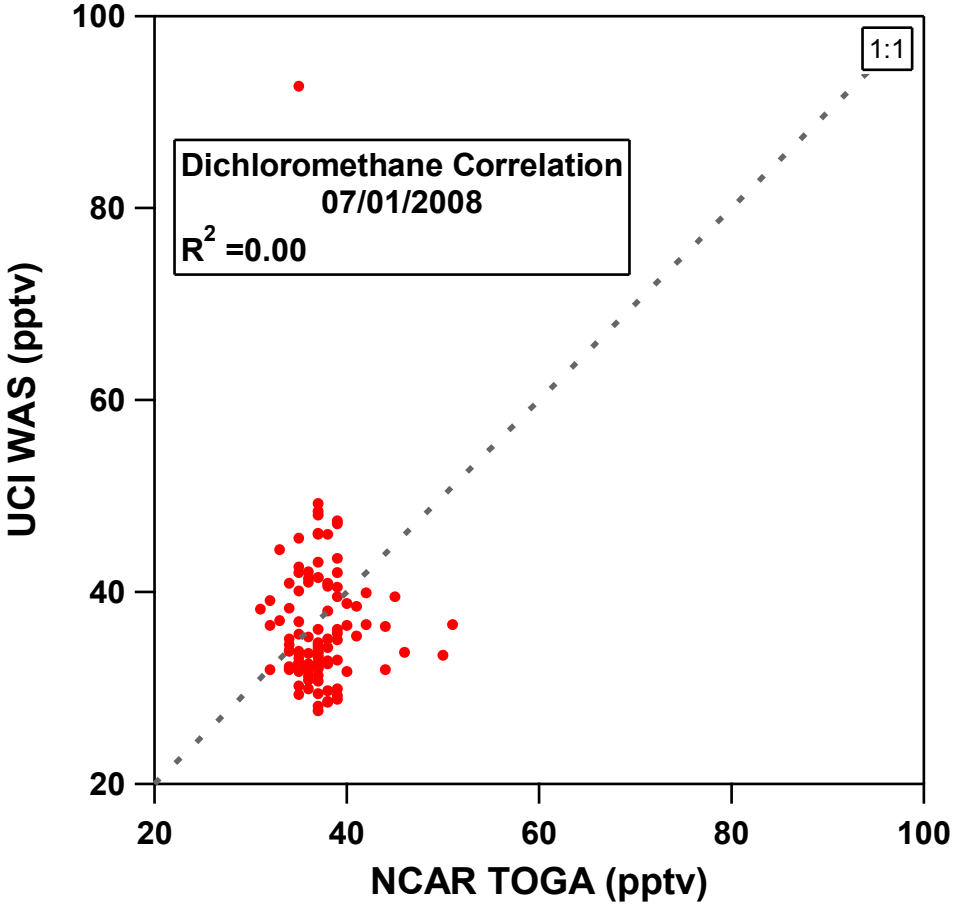

07/01/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.25
Chloroform (pptv)
Altitude (km)
GMT
0
5
10
15
20
25
0
2
4
6
8
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00

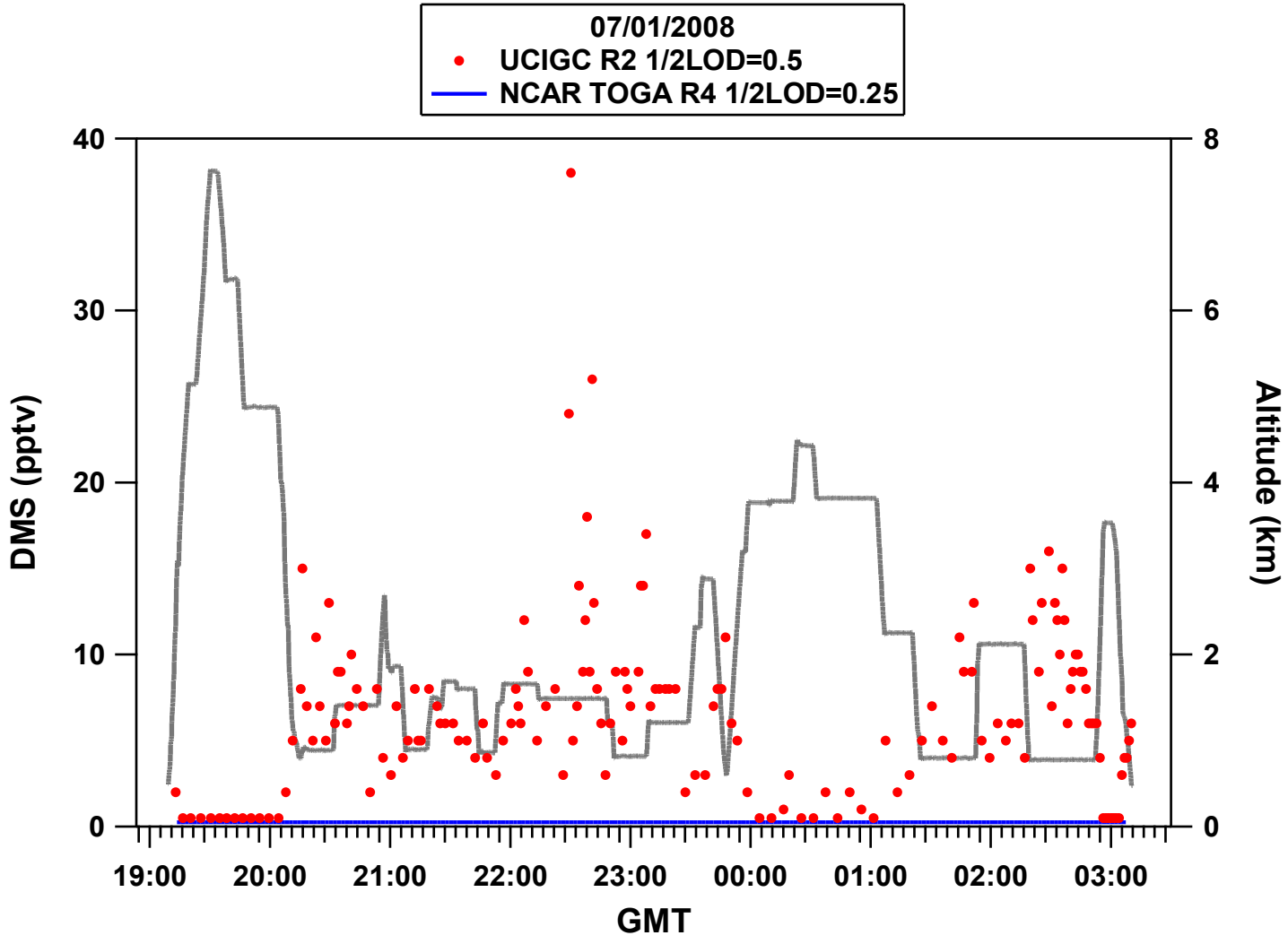

1:1
Chloroform Correlation
07/01/2008
Slope = 0.97 ± 0.08
Intercept = 1.94 ± 1.08
R2 =0.55
UCI WAS (pptv)
NCAR TOGA (pptv)
5
10
15
20
25

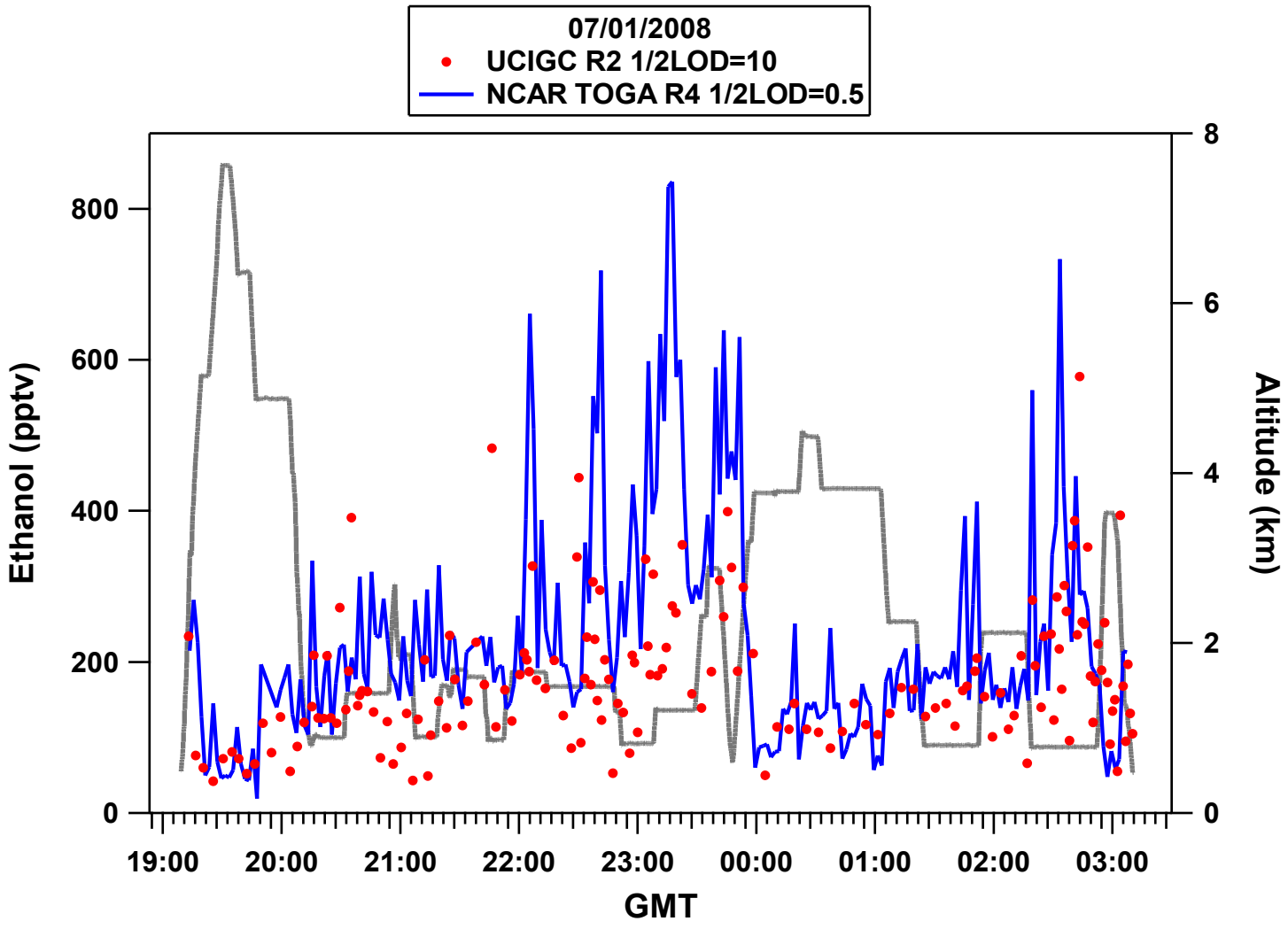

07/01/2008
UCIGC R2
NCAR TOGA R4 1/2LOD=2.5
Chloromethane (pptv)
Altitude (km)
GMT
1000
800
600
400
200
0
8
6
4
2
0
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00

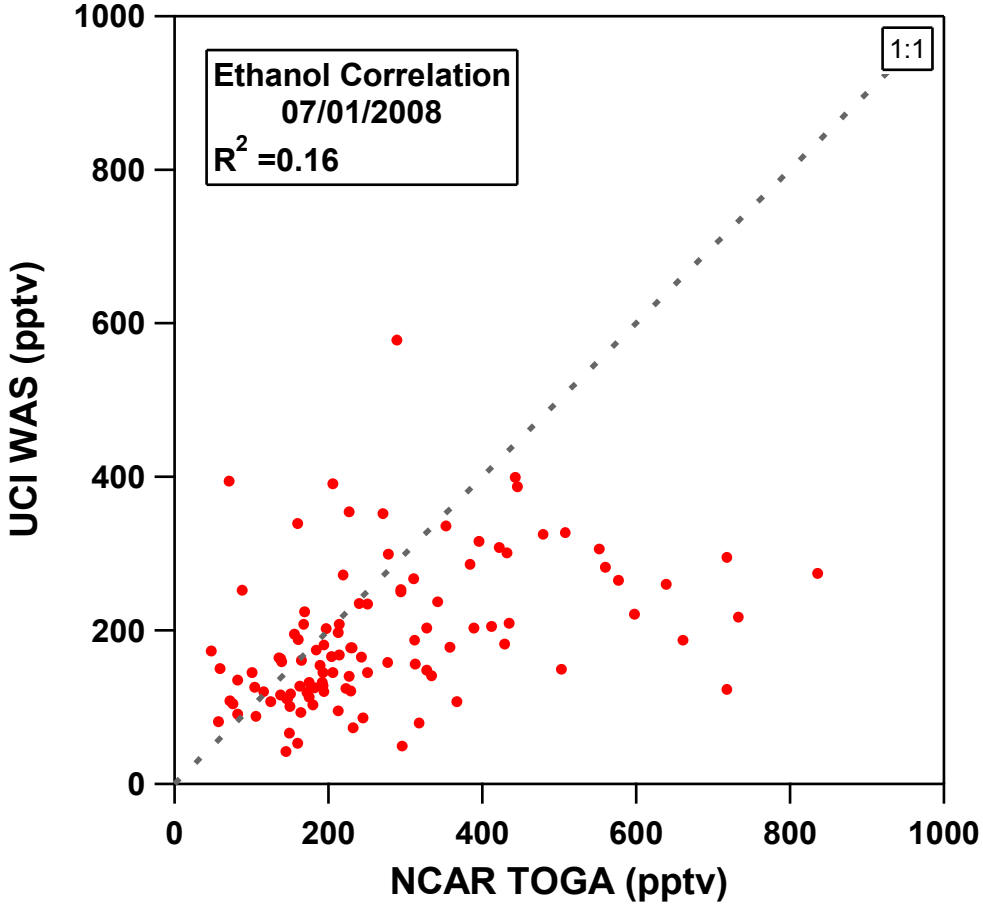

Chloromethane Correlation
07/01/2008
Slope = 0.61 ± 0.05
Intercept = 189.35 ± 29.84
R2 =0.53
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
400
500
600
700
800
900
1000

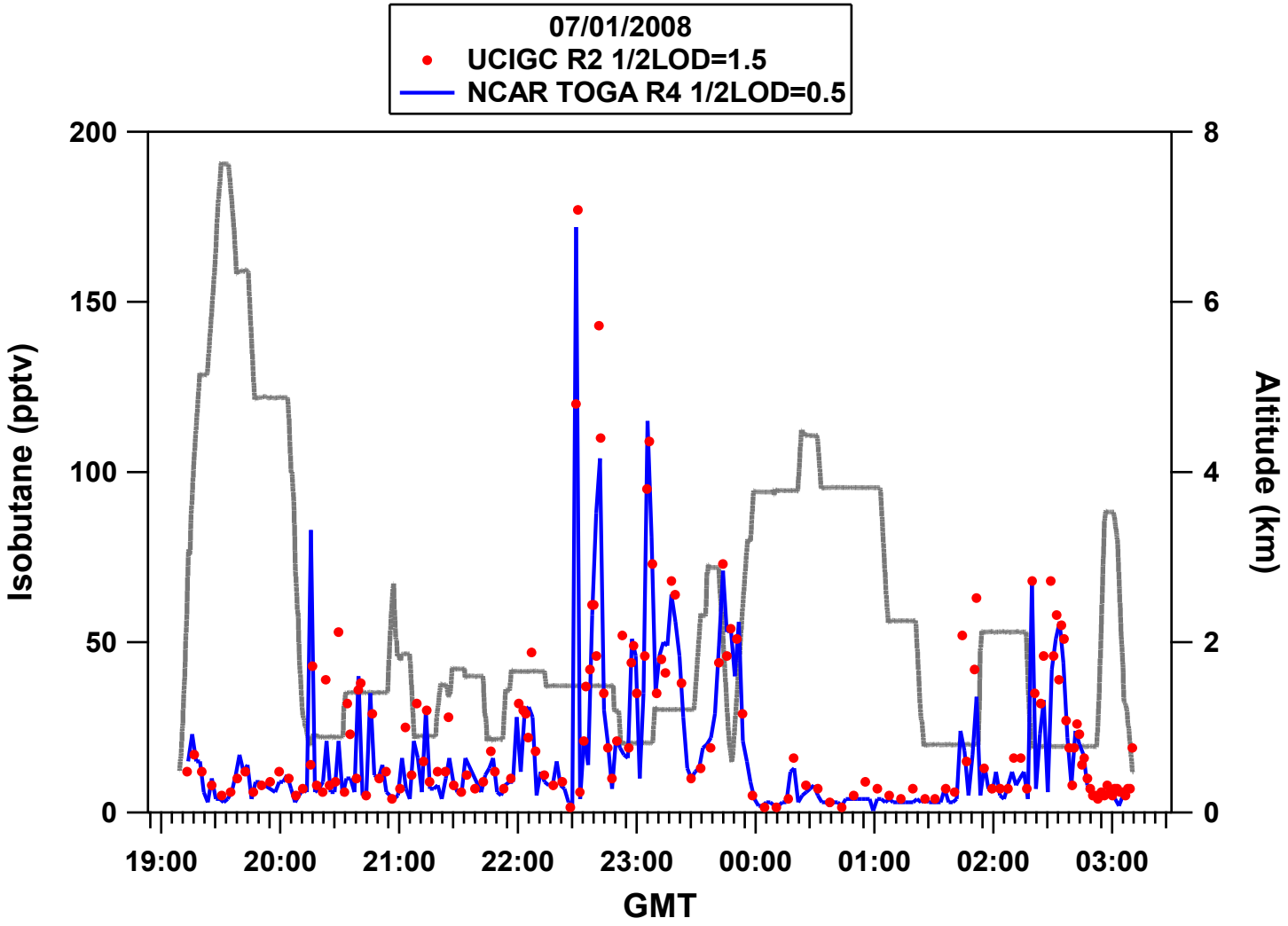

07/01/2008
UCIGC R2
NCAR TOGA R4 1/2LOD=0.25
Dichloromethane (pptv)
Altitude (km)
GMT
100
80
60
40
20
0
8
6
4
2
0
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00

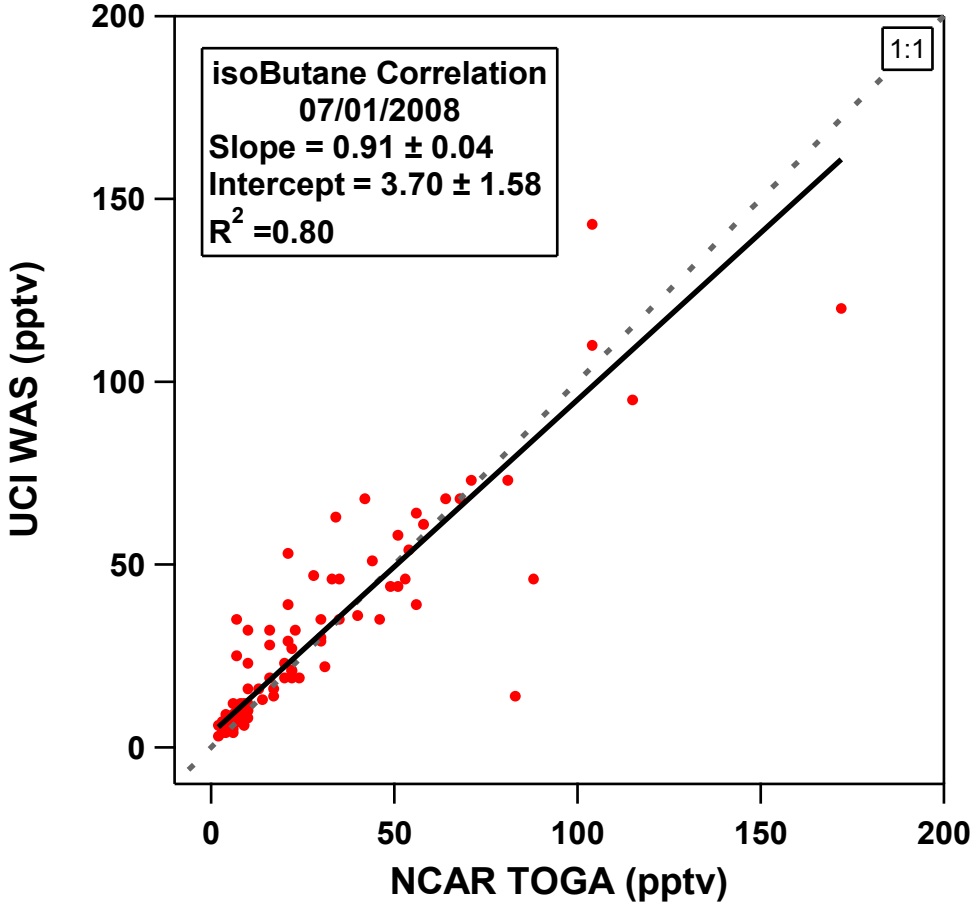

Dichloromethane Correlation
07/01/2008
R2 =0.00
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
20
40
60
80
100

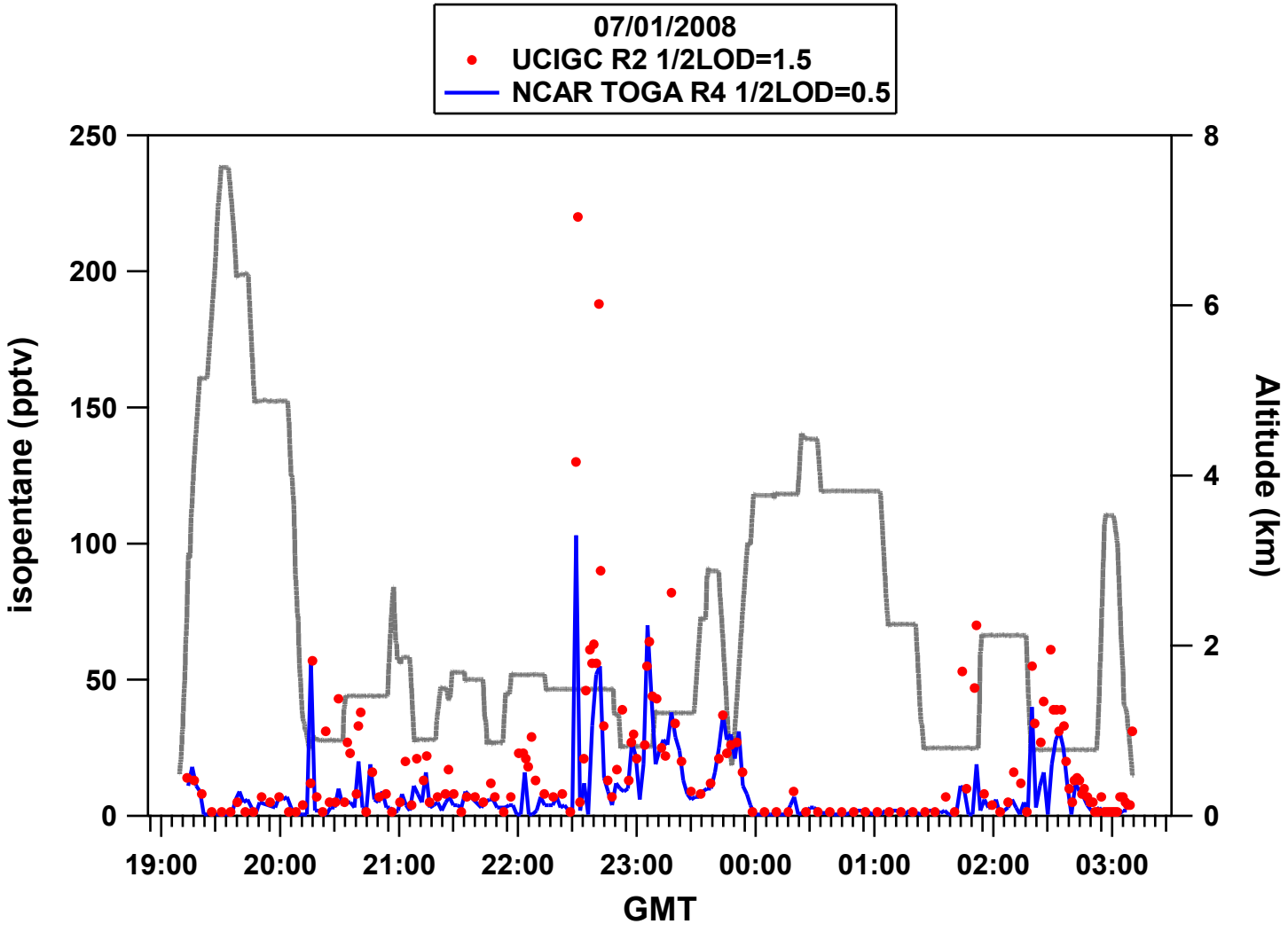

07/01/2008
UCIGC R2 1/2LOD=0.5
NCAR TOGA R4 1/2LOD=0.25
DMS (pptv)
Altitude (km)
GMT
0
10
20
30
40
0
2
4
6
8
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00

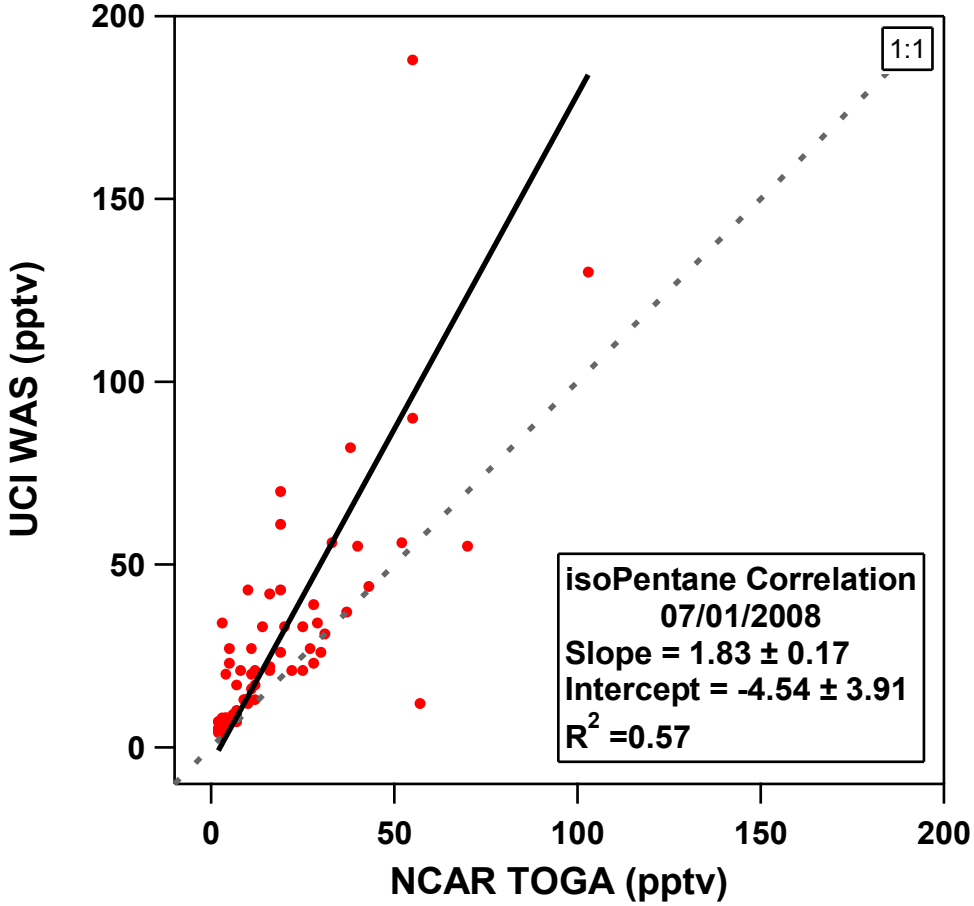

07/01/2008
UCIGC R2 1/2LOD=10
NCAR TOGA R4 1/2LOD=0.5
Ethanol (pptv)
0
200
400
600
800
Altitude (km)
0
2
4
6
8
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00
GMT

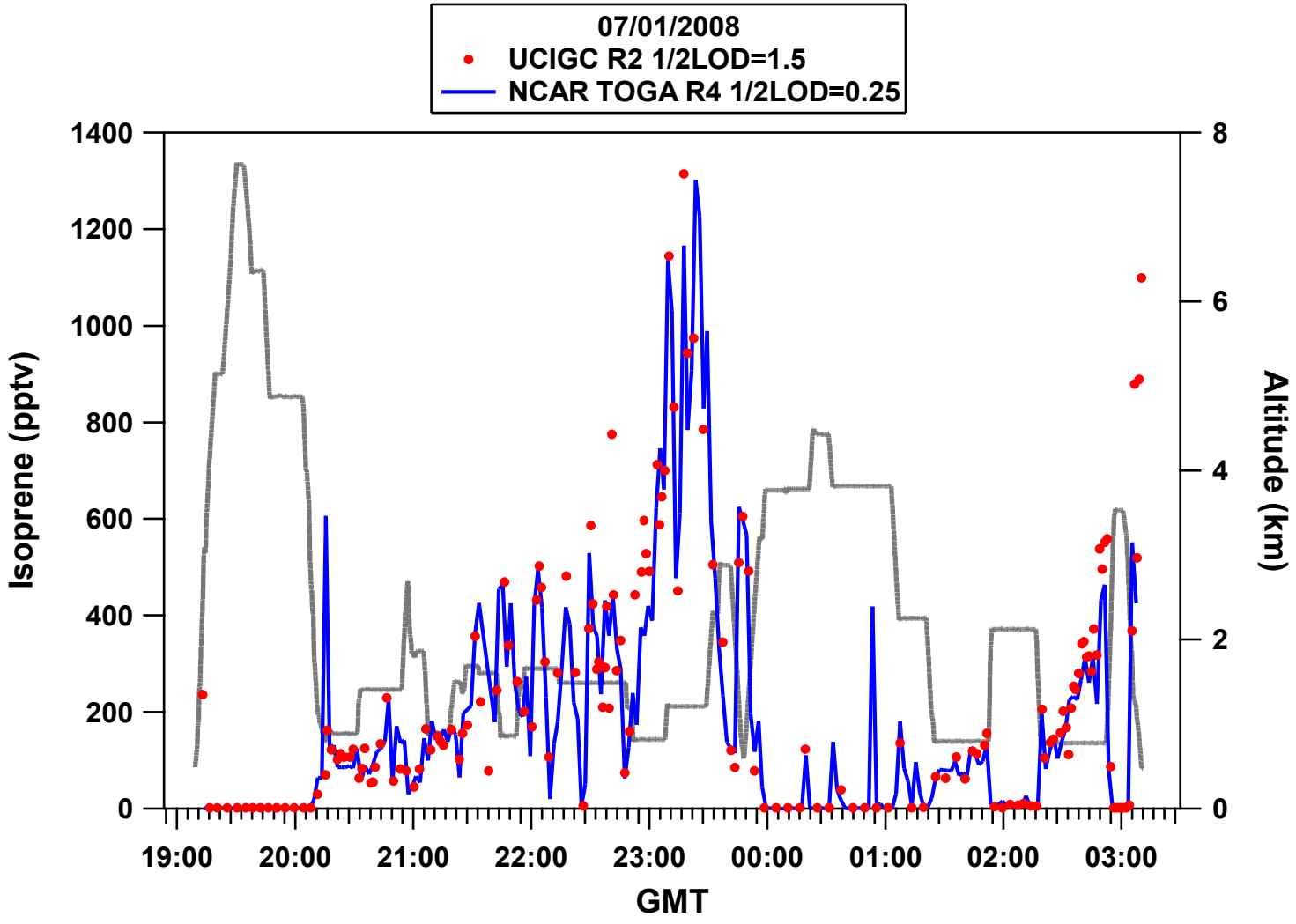

Ethanol Correlation
07/01/2008
R2 =0.16
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
0
200
400
600
800
1000

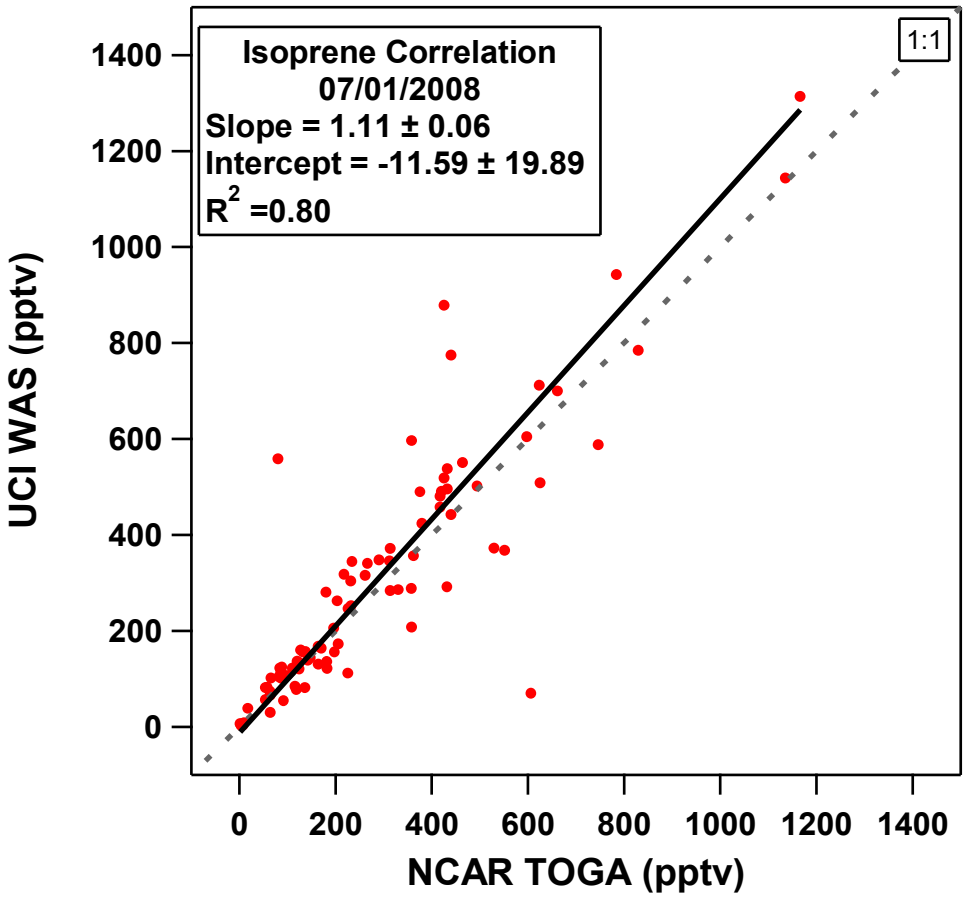

07/01/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
Isobutane (pptv)
Altitude (km)
GMT
200
150
100
50
0
8
6
4
2
0
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00

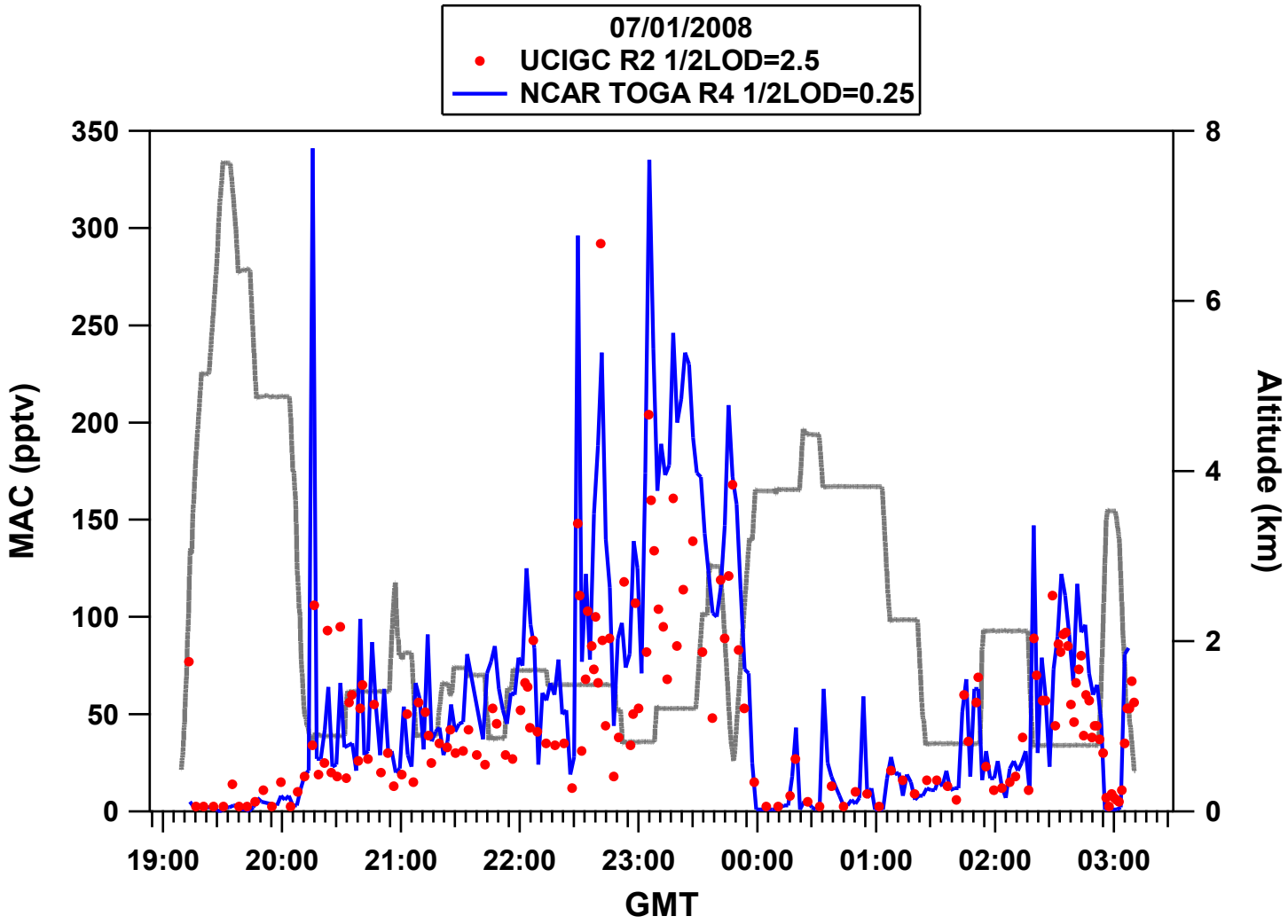

isoButane Correlation
07/01/2008
Slope = 0.91 ± 0.04
Intercept = 3.70 ± 1.58
R2 =0.80
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
0
50
100
150
200

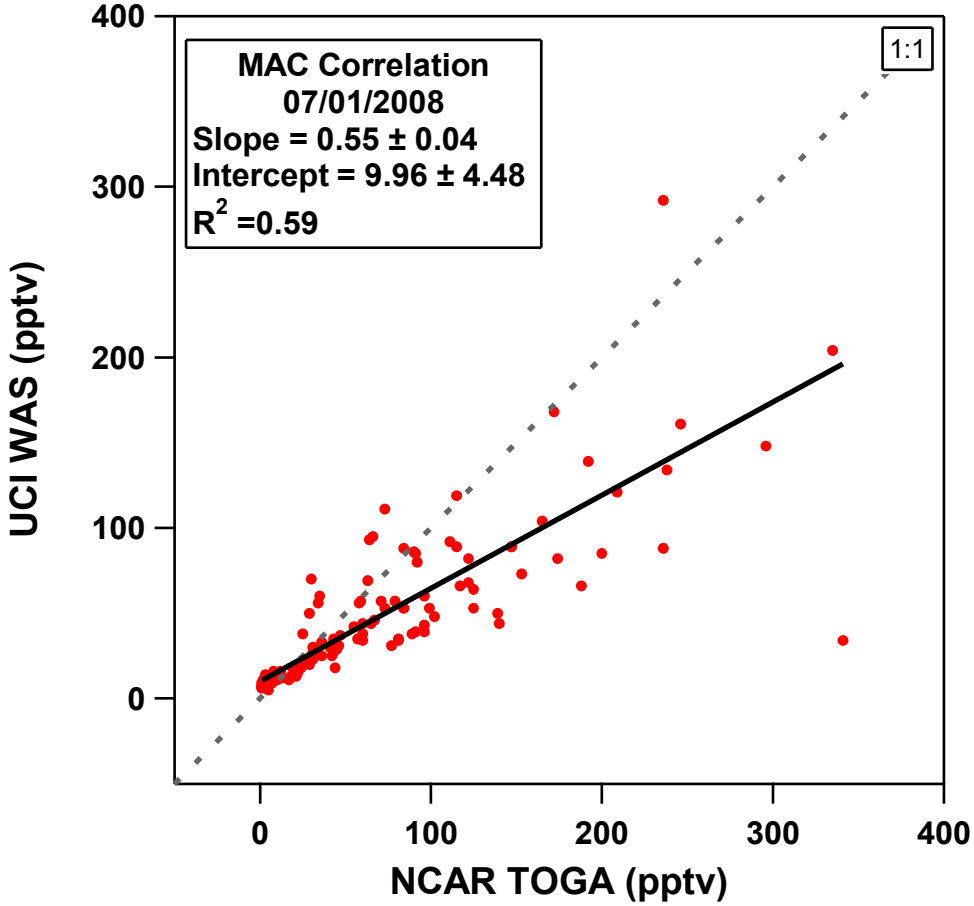

07/01/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
isopentane (pptv)
Altitude (km)
GMT
250
200
150
100
50
0
8
6
4
2
0
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00

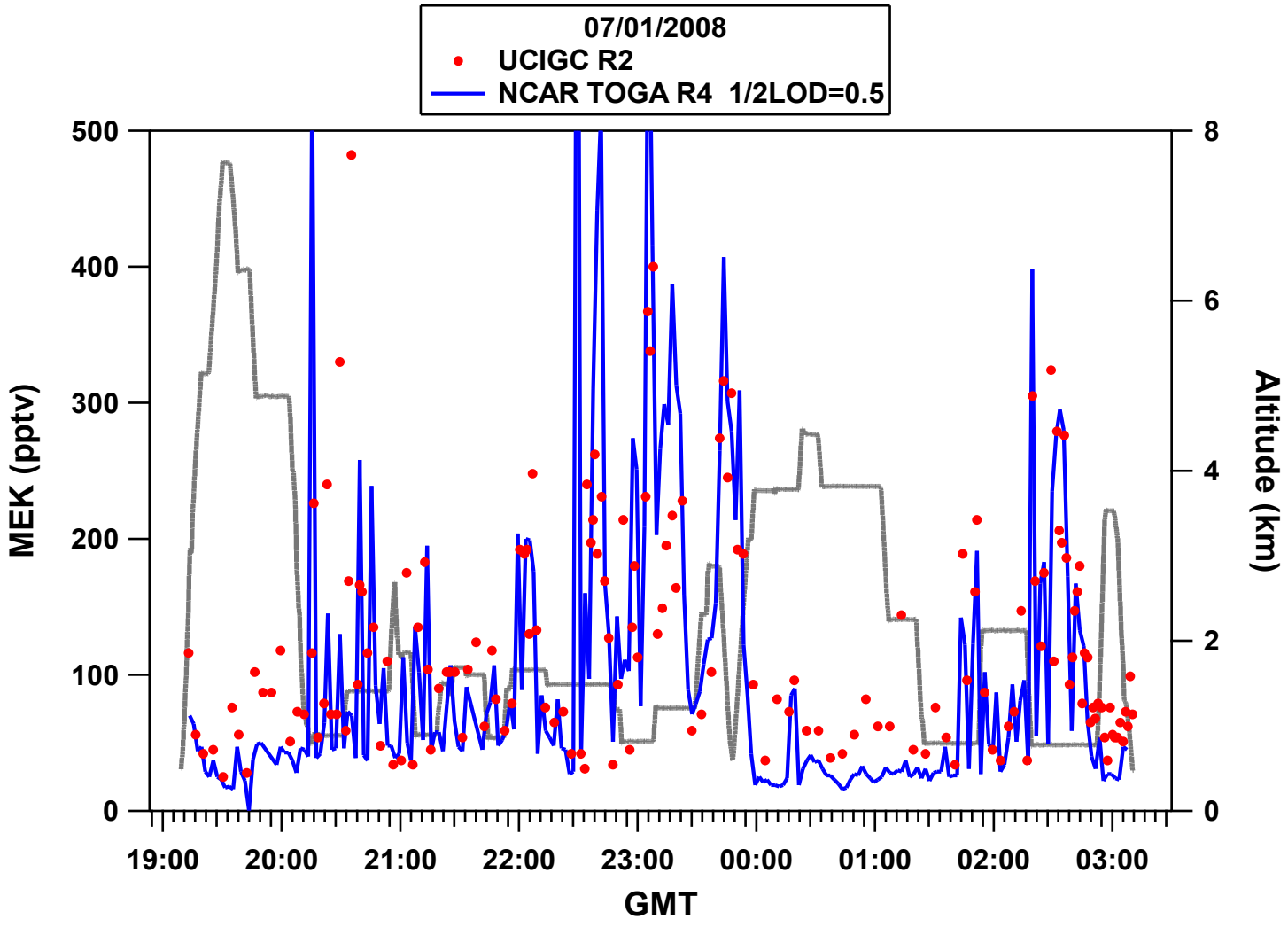

200
150
100
50
0
UCI WAS (pptv)
0
50
100
150
200
NCAR TOGA (pptv)
1:1
isoPentane Correlation
07/01/2008
Slope = 1.83 ± 0.17
Intercept = -4.54 ± 3.91
R2 =0.57

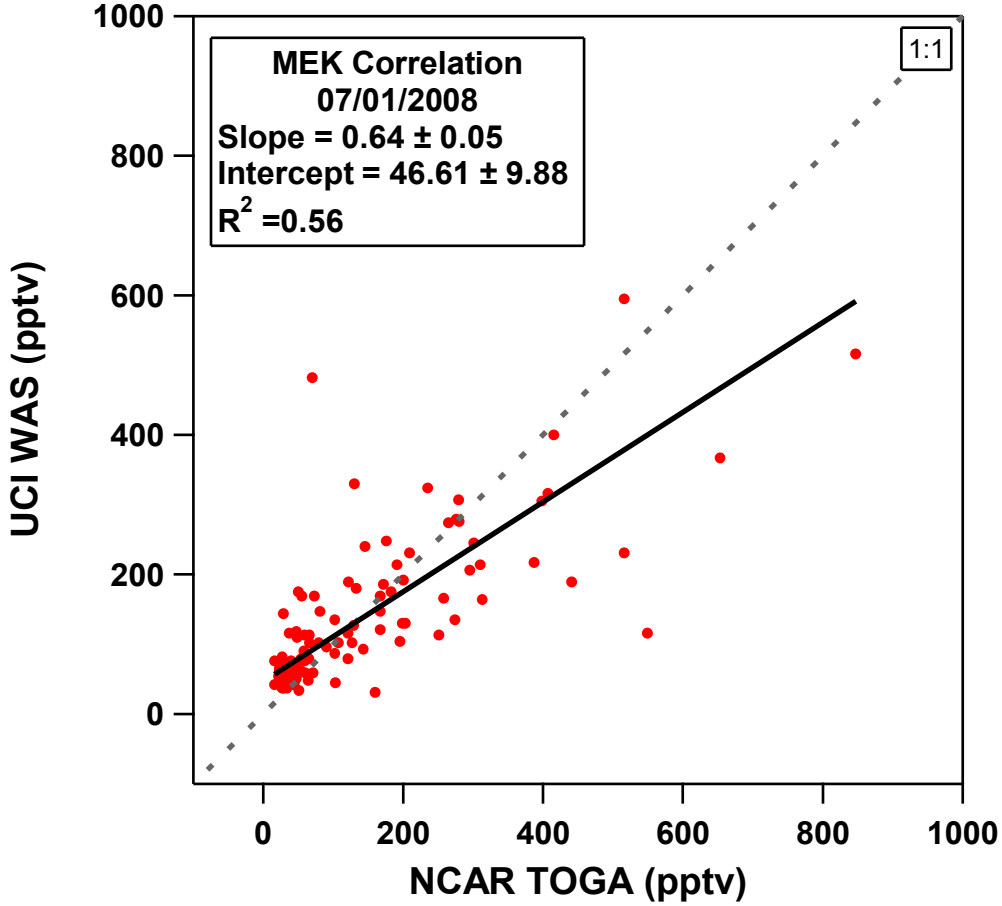

07/01/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.25
Isoprene (pptv)
Altitude (km)
GMT
0
200
400
600
800
1000
1200
1400
0
2
4
6
8
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00

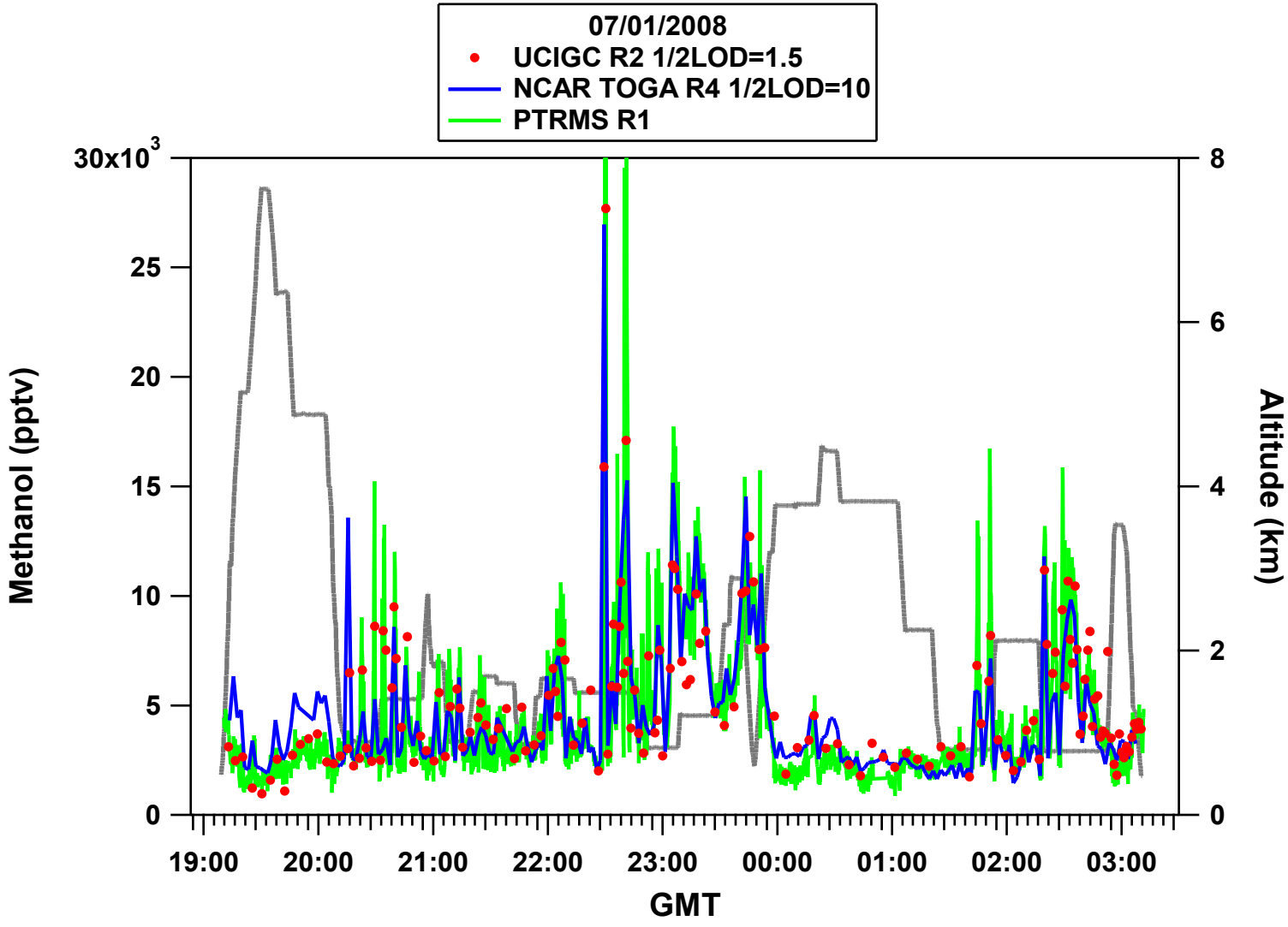

Isoprene Correlation
07/01/2008
Slope = 1.11 ± 0.06
Intercept = -11.59 ± 19.89
R2 =0.80
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
0
200
400
600
800
1000
1200
1400

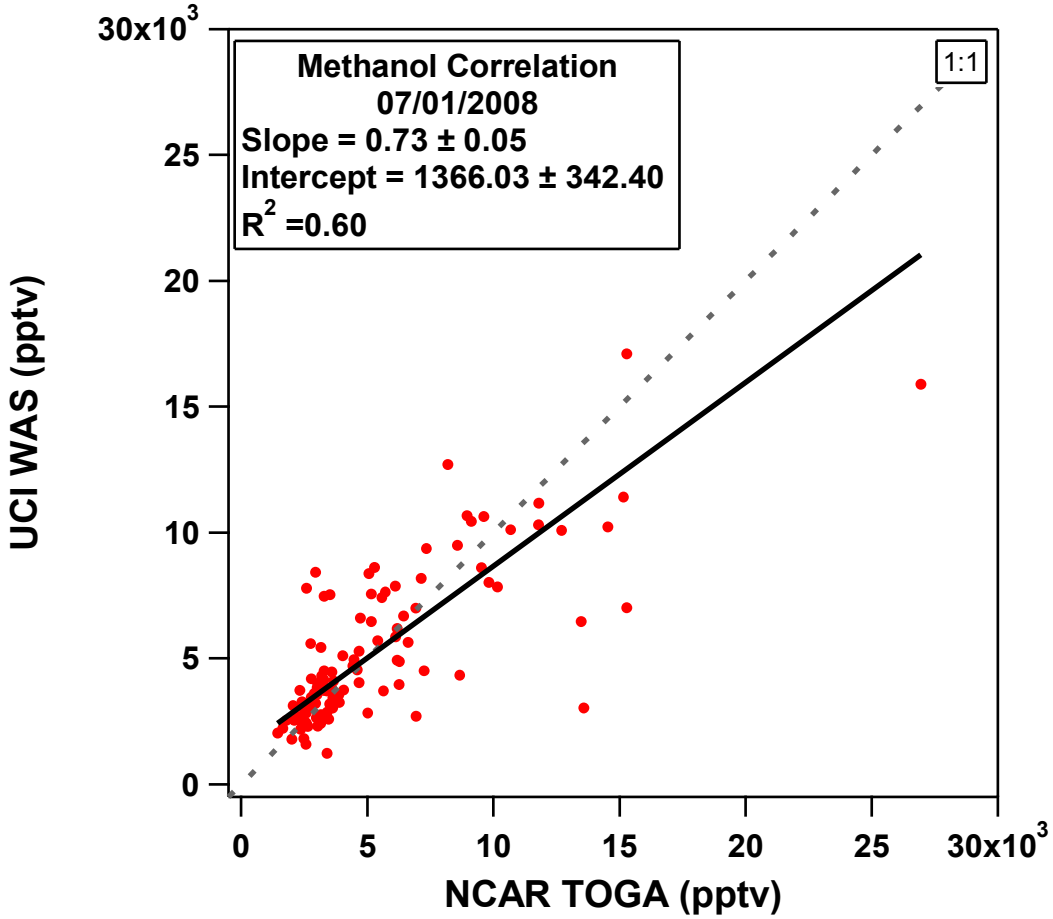

07/01/2008
UCIGC R2 1/2LOD=2.5
NCAR TOGA R4 1/2LOD=0.25
MAC (pptv)
Altitude (km)
GMT
350
300
250
200
150
100
50
0
8
6
4
2
0
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00

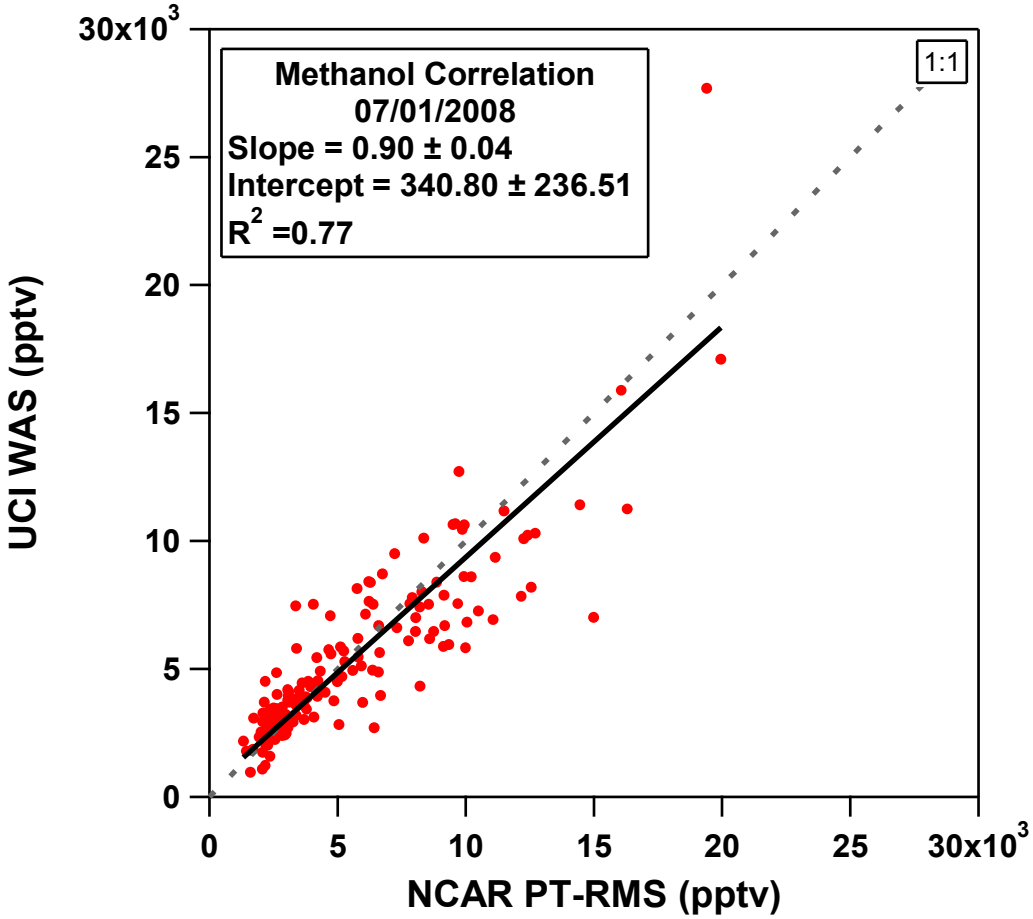

MAC Correlation
07/01/2008
Slope = 0.55 ± 0.04
Intercept = 9.96 ± 4.48
R2 =0.59
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
400
300
200
100
0
0
100
200
300
400

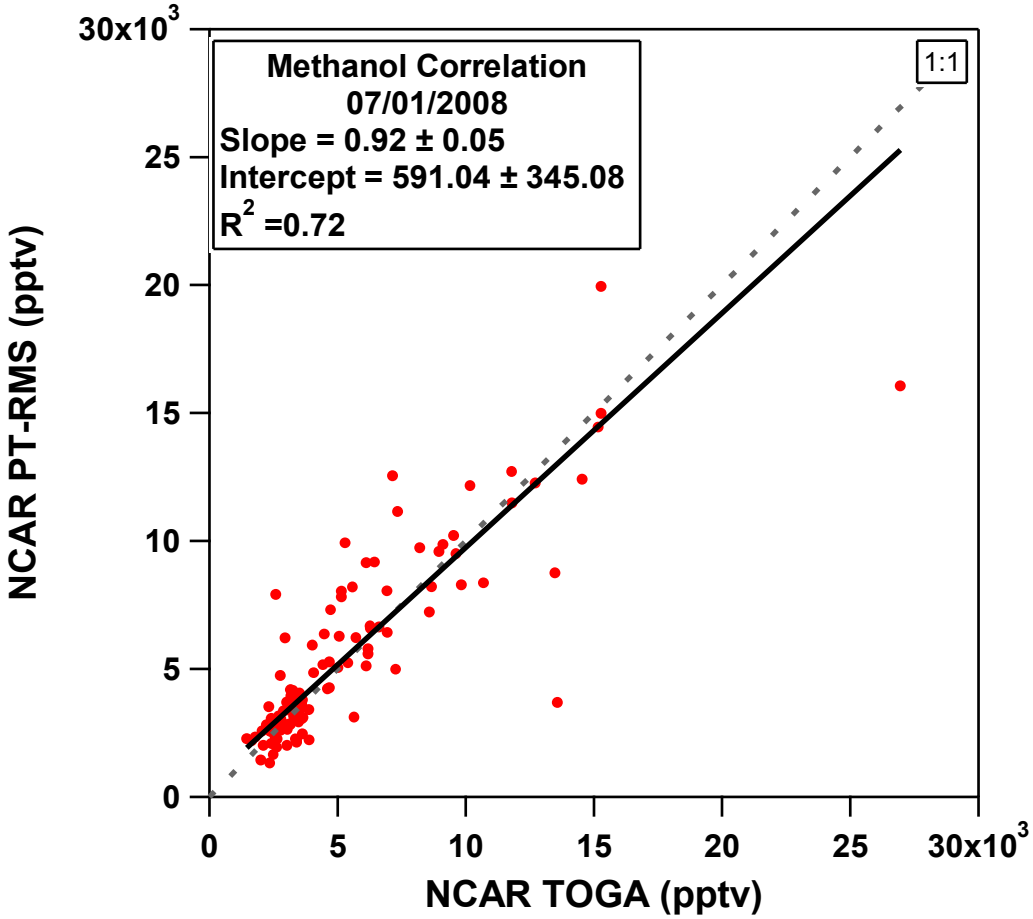

07/01/2008
UCIGC R2
NCAR TOGA R4 1/2LOD=0.5
MEK (pptv)
Altitude (km)
GMT
500
400
300
200
100
0
8
6
4
2
0
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00

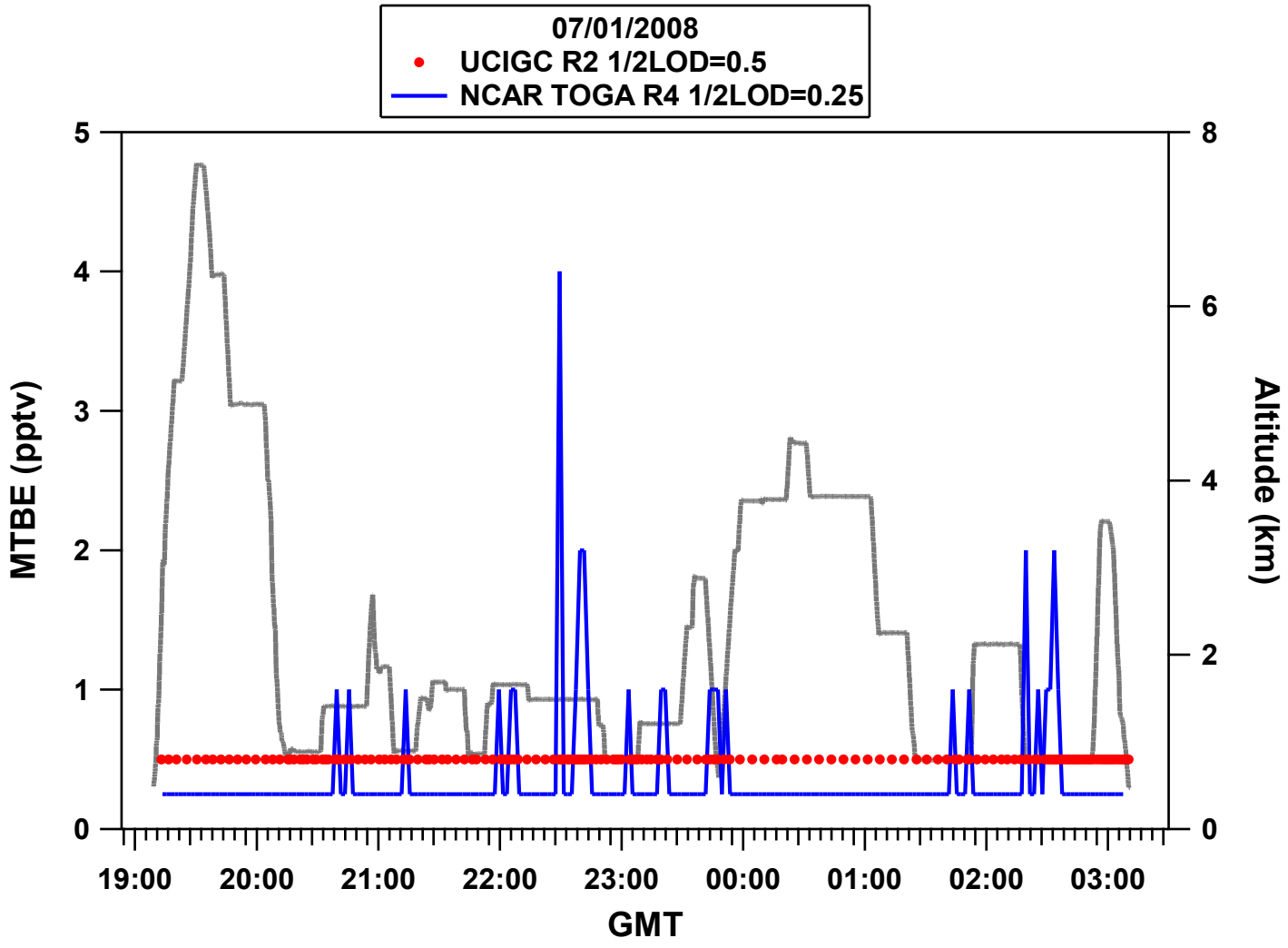

MEK Correlation
07/01/2008
Slope = 0.64 ± 0.05
Intercept = 46.61 ± 9.88
R2 =0.56
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
1000
800
600
400
200
0
0
200
400
600
800
1000

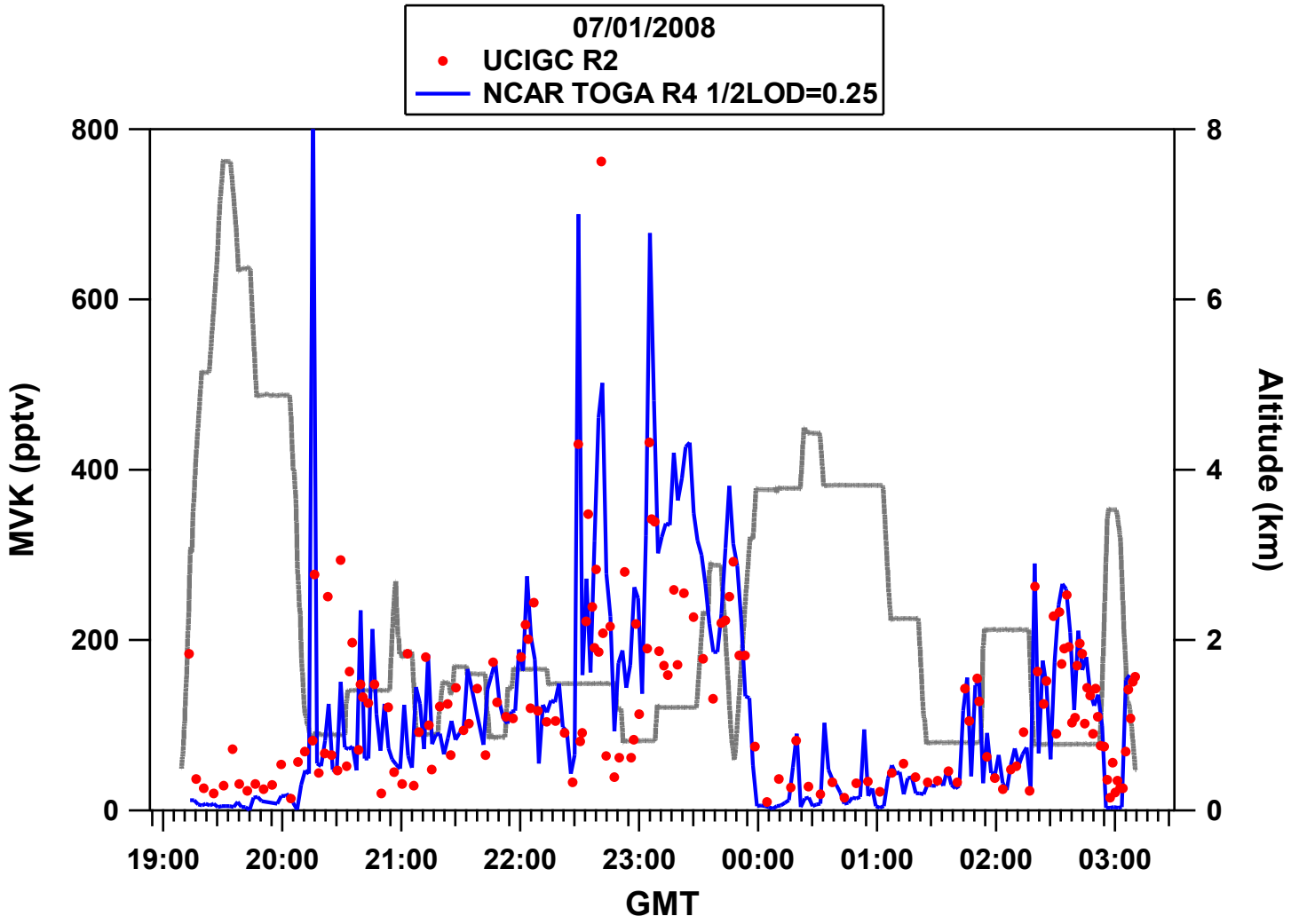

07/01/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=10
PTRMS R1
Methanol (pptv)
30x10^3
25
20
15
10
5
0
Altitude (km)
8
6
4
2
0
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00
GMT

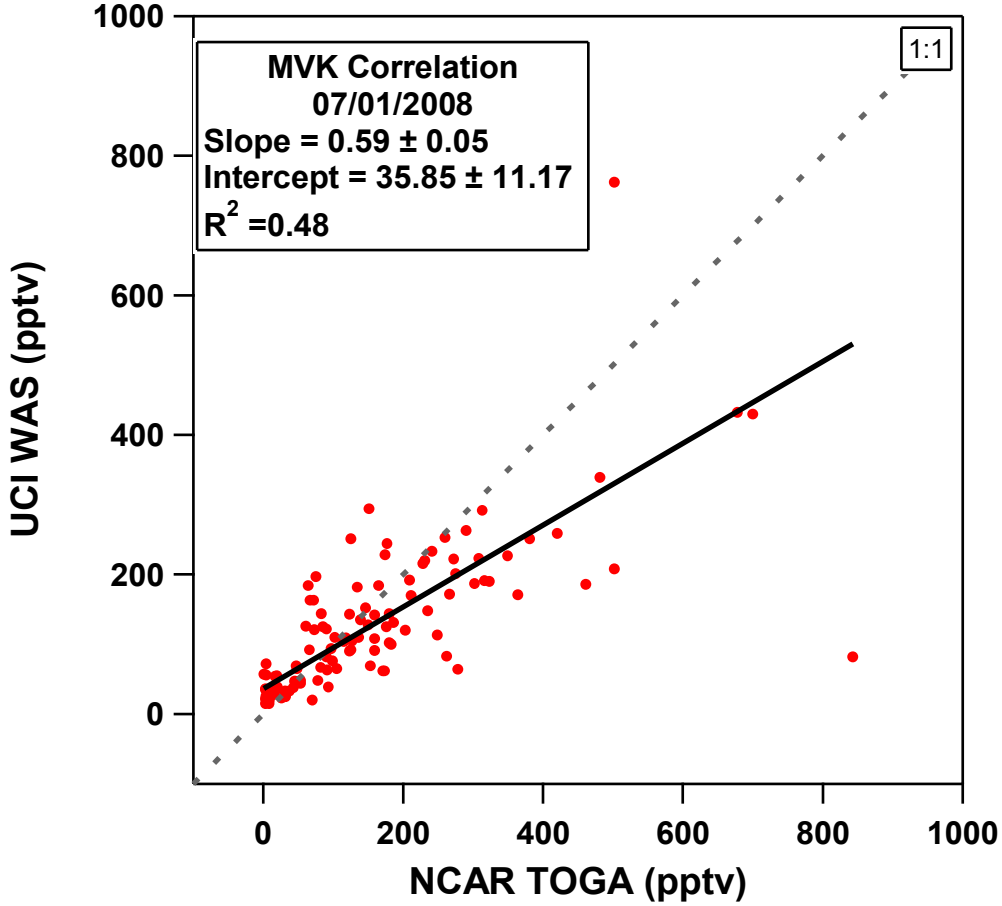

Methanol Correlation
07/01/2008
Slope = 0.73 ± 0.05
Intercept = 1366.03 ± 342.40
R2 =0.60
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
0
5
10
15
20
25
30x10^3

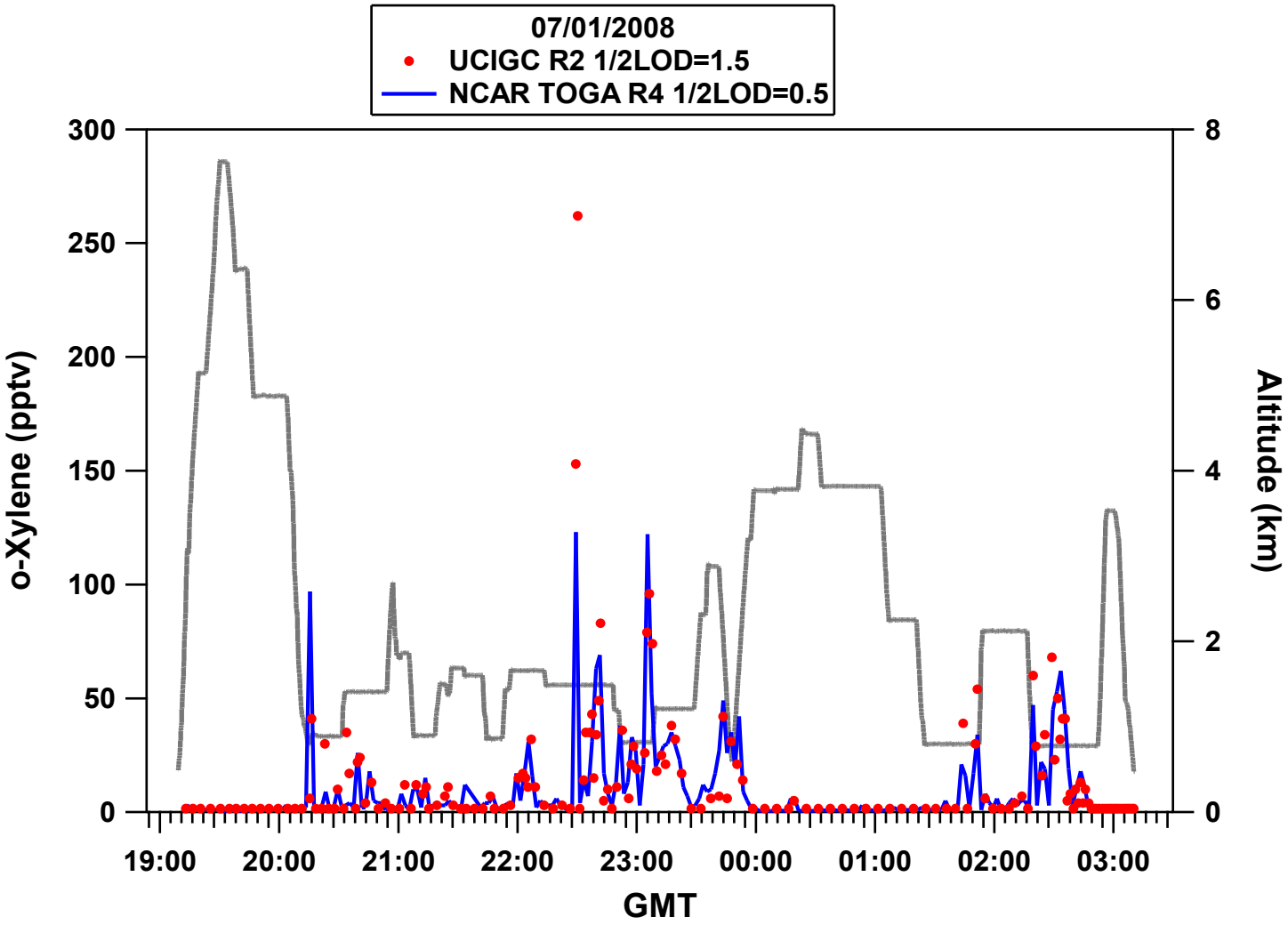

Methanol Correlation
07/01/2008
Slope = 0.90 ± 0.04
Intercept = 340.80 ± 236.51
R2 =0.77
1:1
UCI WAS (pptv)
NCAR PT-RMS (pptv)
0
5
10
15
20
25
30x10^3

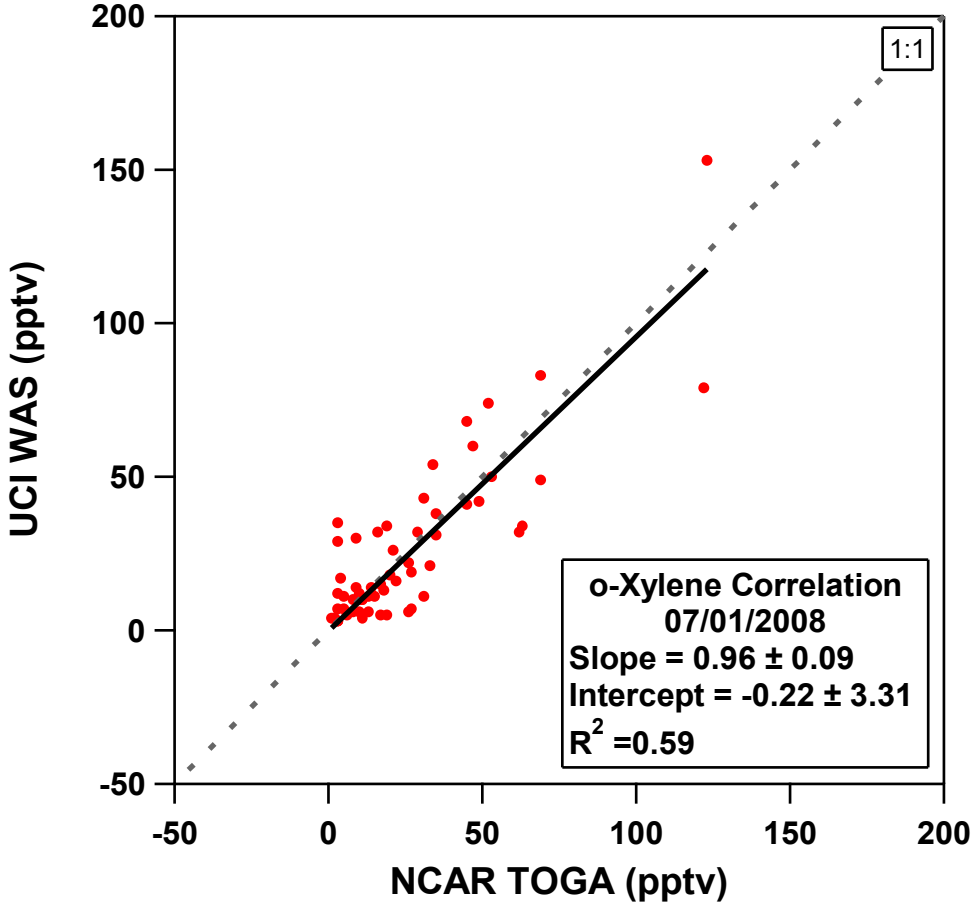

Methanol Correlation
07/01/2008
Slope = 0.92 ± 0.05
Intercept = 591.04 ± 345.08
R2 =0.72
1:1
NCAR PT-RMS (pptv)
NCAR TOGA (pptv)
0
5
10
15
20
25
30x10^3

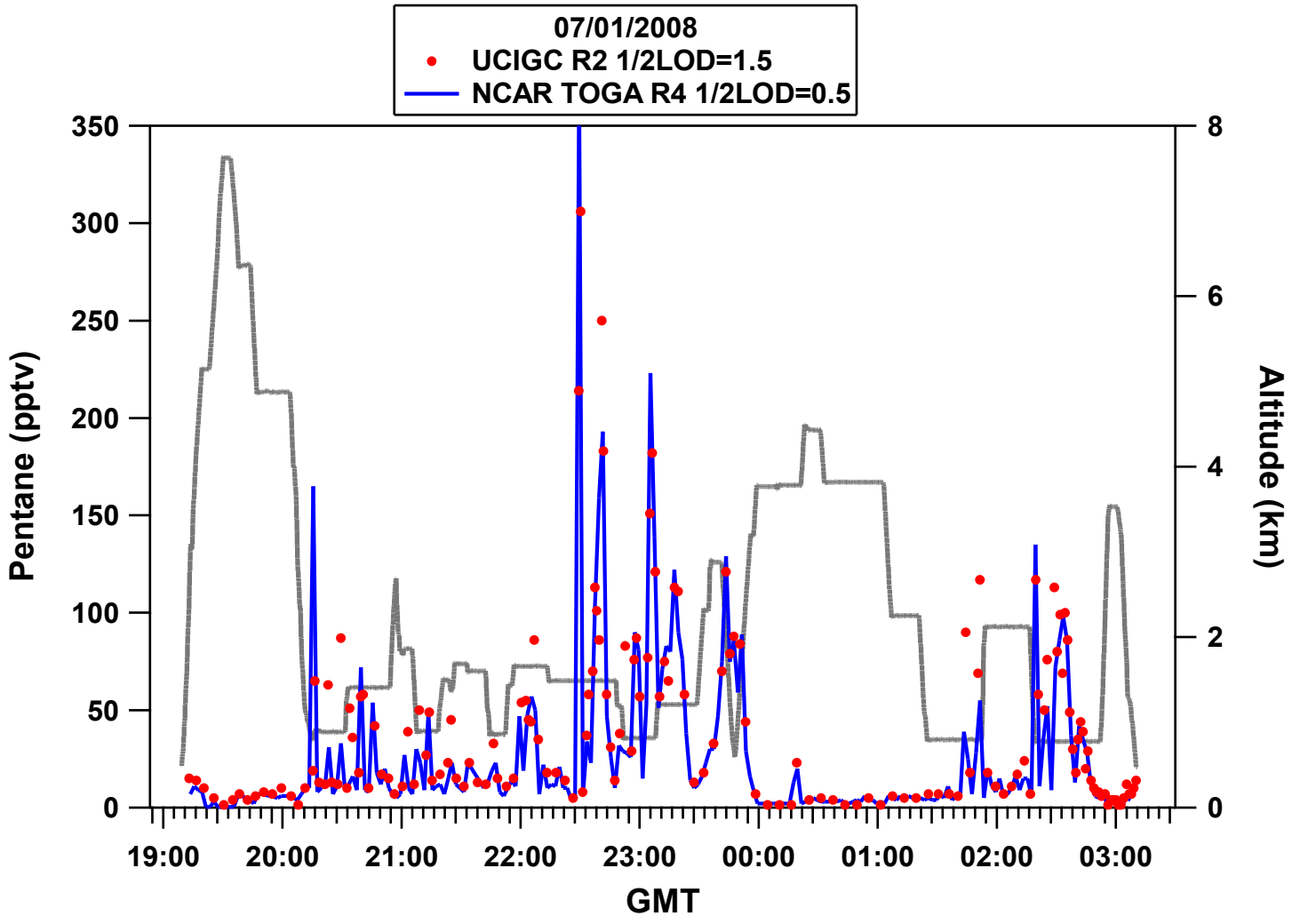

07/01/2008
UCIGC R2 1/2LOD=0.5
NCAR TOGA R4 1/2LOD=0.25
MTBE (pptv)
Altitude (km)
GMT
0
1
2
3
4
5
0
2
4
6
8
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00

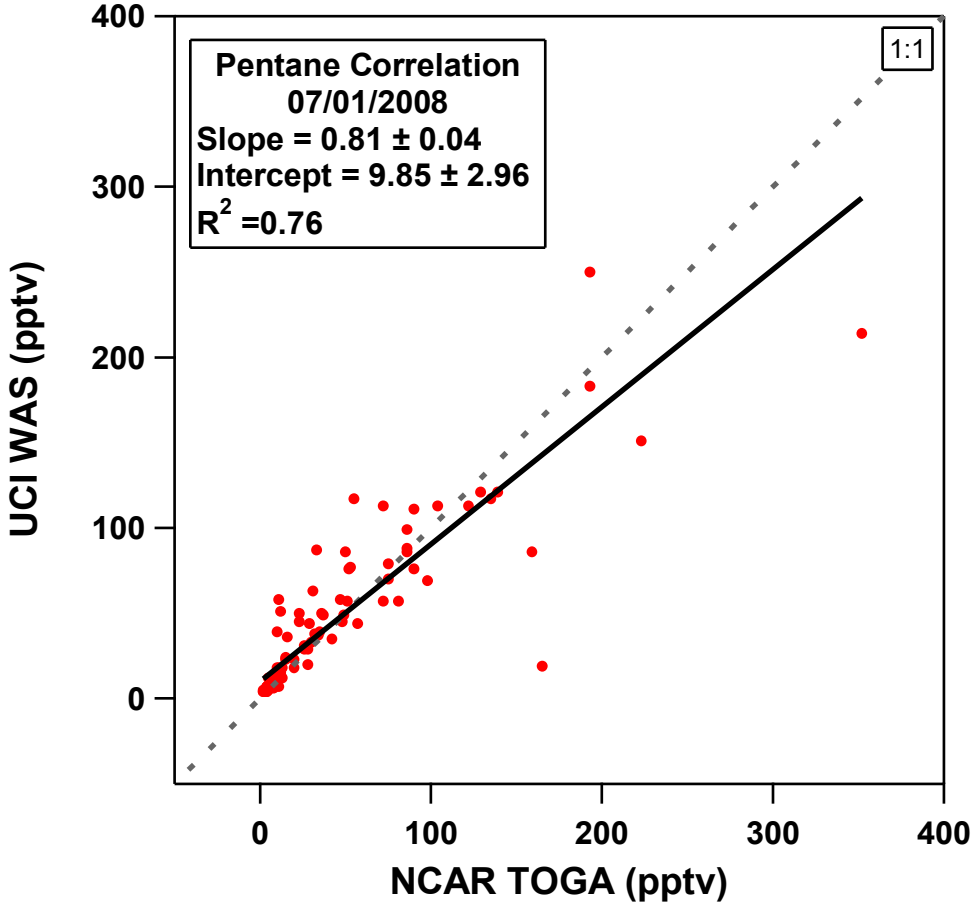

07/01/2008
UCIGC R2
NCAR TOGA R4 1/2LOD=0.25
MVK (pptv)
Altitude (km)
GMT
800
600
400
200
0
8
6
4
2
0
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00

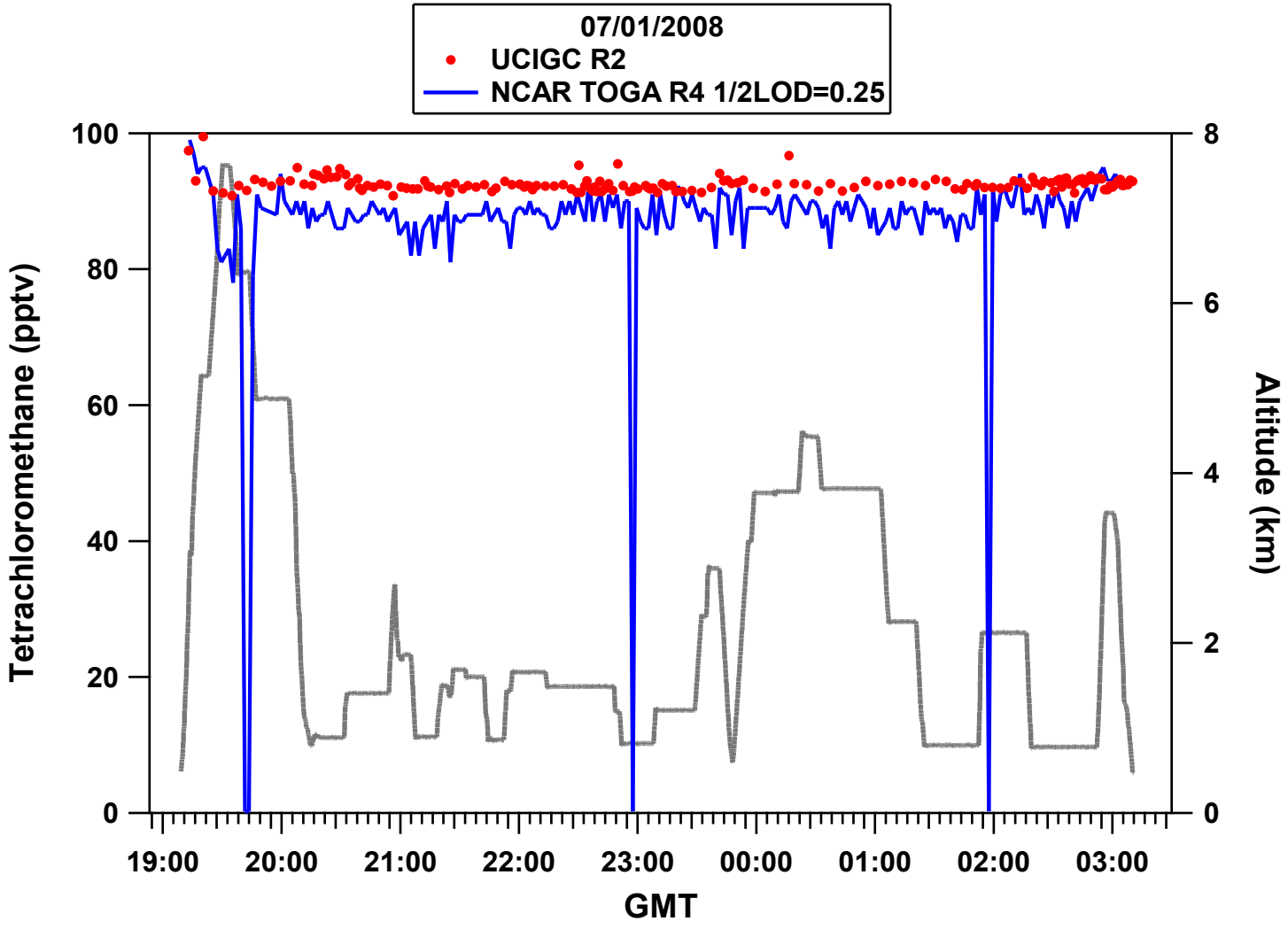

MVK Correlation
07/01/2008
Slope = 0.59 ± 0.05
Intercept = 35.85 ± 11.17
R2 =0.48
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
1000
800
600
400
200
0
0
200
400
600
800
1000

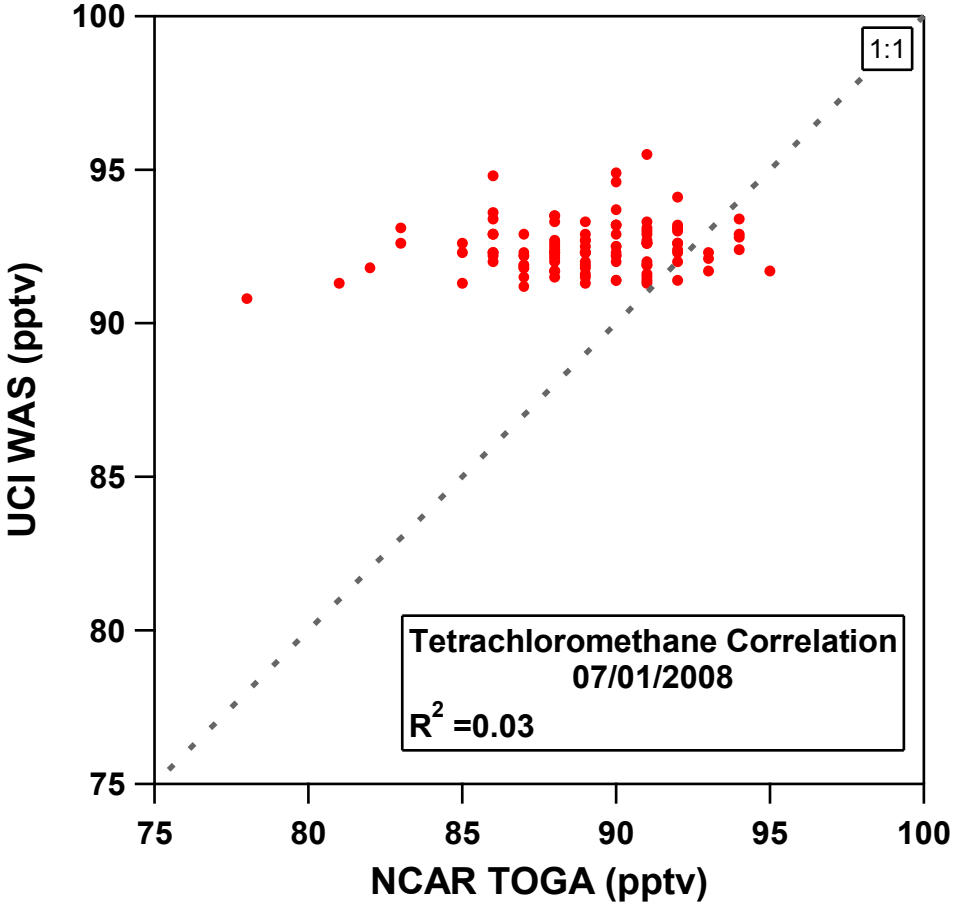

07/01/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
o-Xylene (pptv)
Altitude (km)
GMT
300
250
200
150
100
50
0
8
6
4
2
0
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00

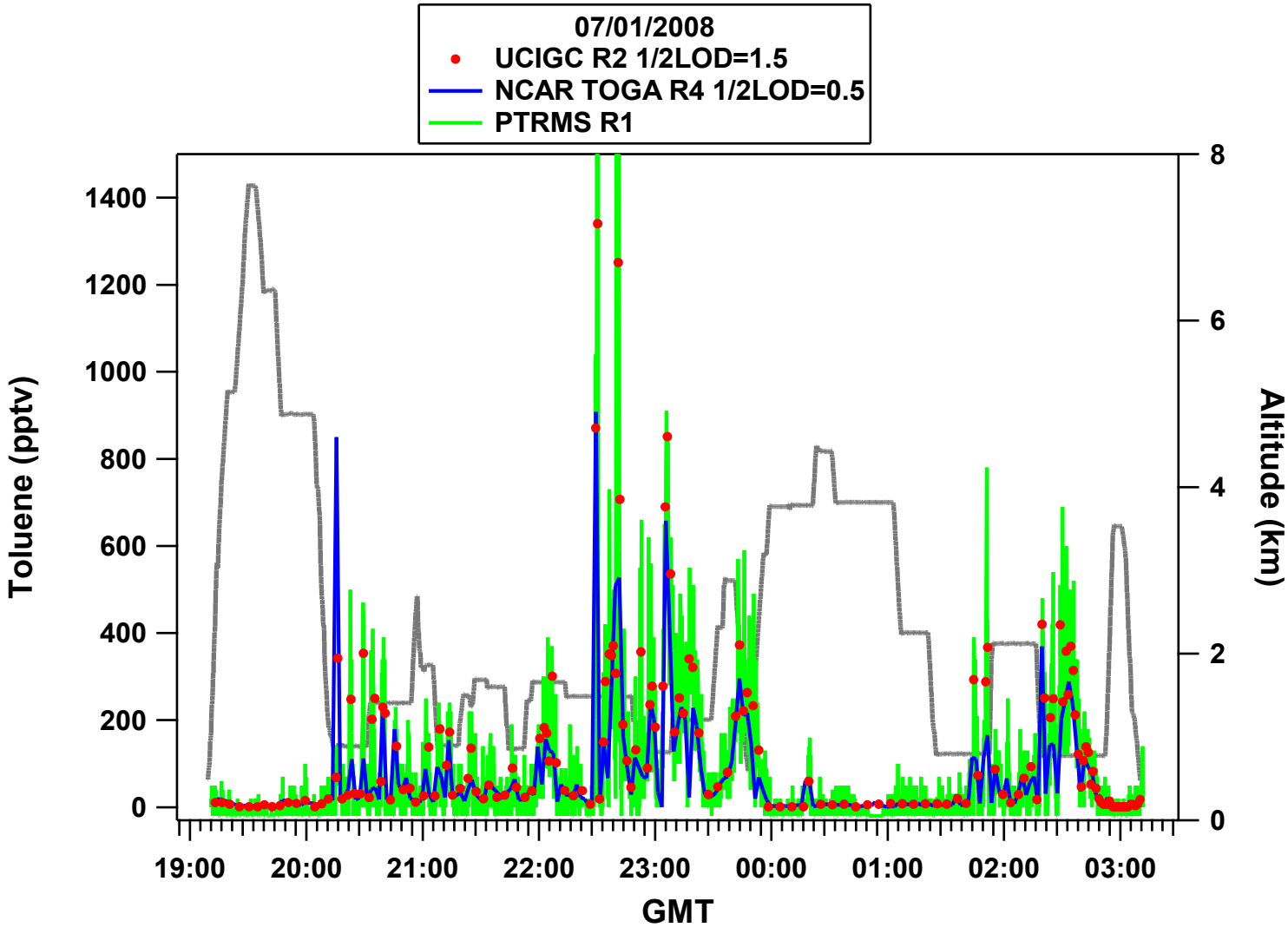

1:1
o-Xylene Correlation
07/01/2008
Slope = 0.96 ± 0.09
Intercept = -0.22 ± 3.31
R2 =0.59
UCI WAS (pptv)
NCAR TOGA (pptv)
200
150
100
50
0
-50
-50
0
50
100
150
200

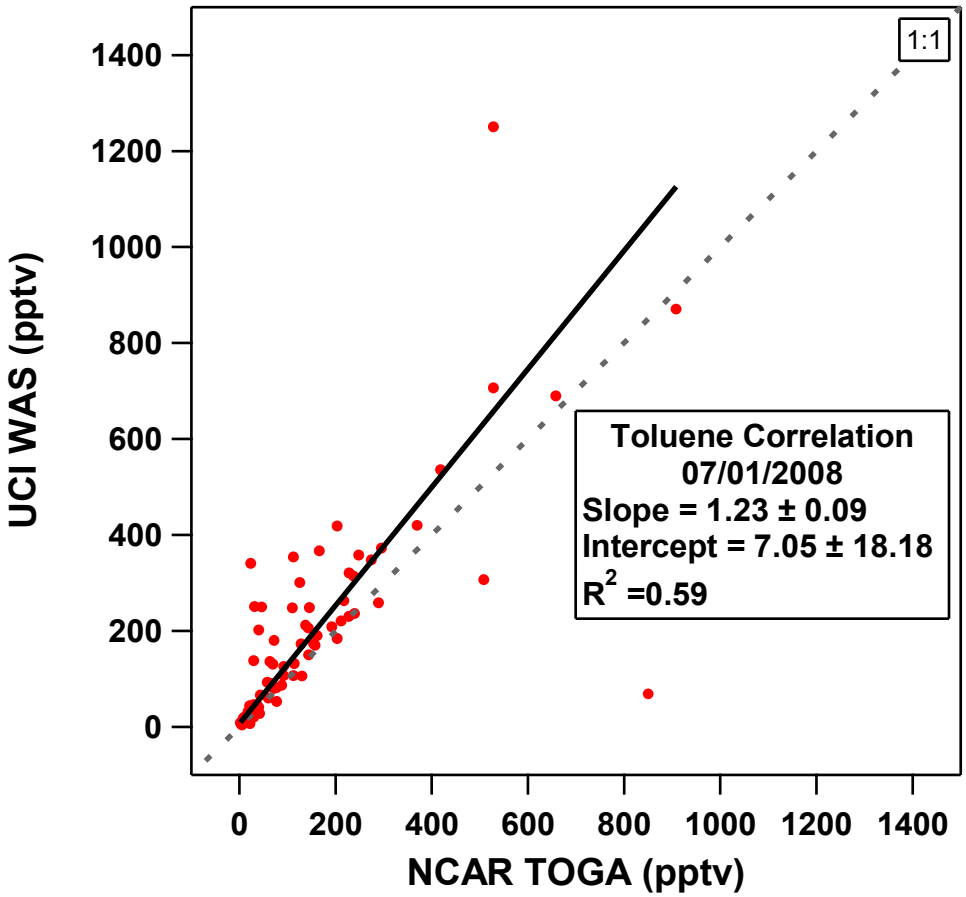

07/01/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
Pentane (pptv)
Altitude (km)
GMT
350
300
250
200
150
100
50
0
8
6
4
2
0
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00

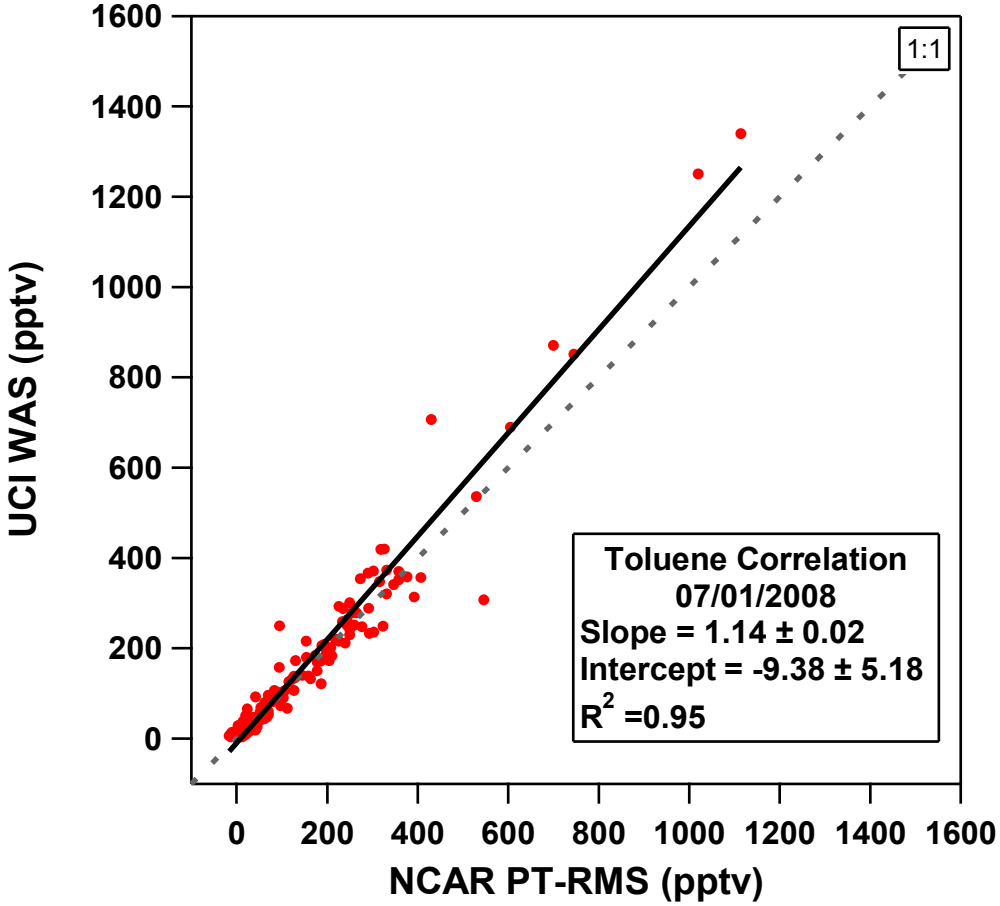

Pentane Correlation
07/01/2008
Slope = 0.81 ± 0.04
Intercept = 9.85 ± 2.96
R2 =0.76
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
400
300
200
100
0
0
100
200
300
400

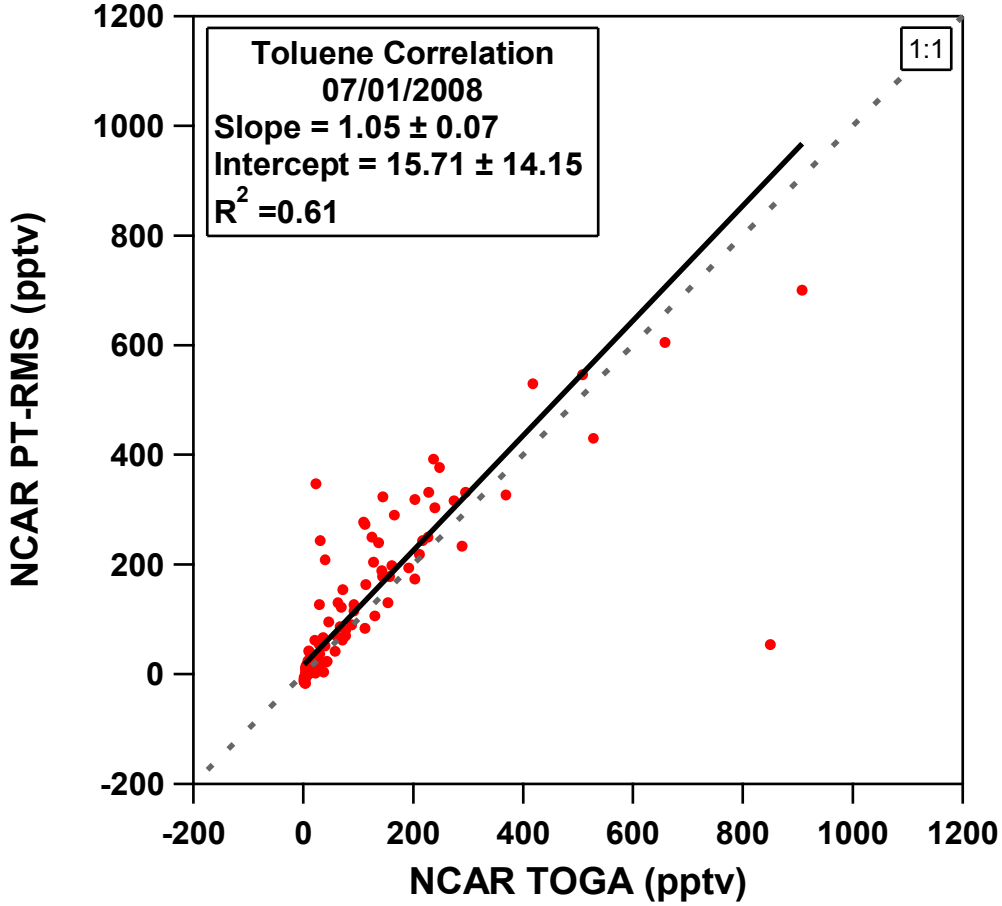

07/01/2008
UCIGC R2
NCAR TOGA R4 1/2LOD=0.25
Tetrachloromethane (pptv)
Altitude (km)
GMT
100
80
60
40
20
0
8
6
4
2
0
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00


1:1
Tetrachloromethane Correlation
07/01/2008
R2 =0.03
UCI WAS (pptv)
NCAR TOGA (pptv)
100
95
90
85
80
75
75
80
85
90
95
100


07/01/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
PTRMS R1
Toluene (pptv)
Altitude (km)
GMT
0
200
400
600
800
1000
1200
1400
0
2
4
6
8
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00


1:1
Toluene Correlation
07/01/2008
Slope = 1.23 ± 0.09
Intercept = 7.05 ± 18.18
R2 =0.59
UCI WAS (pptv)
NCAR TOGA (pptv)
0
200
400
600
800
1000
1200
1400


1:1
Toluene Correlation
07/01/2008
Slope = 1.14 ± 0.02
Intercept = -9.38 ± 5.18
R2 =0.95
UCI WAS (pptv)
NCAR PT-RMS (pptv)
0
200
400
600
800
1000
1200
1400
1600


Toluene Correlation
07/01/2008
Slope = 1.05 ± 0.07
Intercept = 15.71 ± 14.15
R2 =0.61
1:1
NCAR PT-RMS (pptv)
NCAR TOGA (pptv)
1200
1000
800
600
400
200
0
-200
-200
0
200
400
600
800
1000
1200