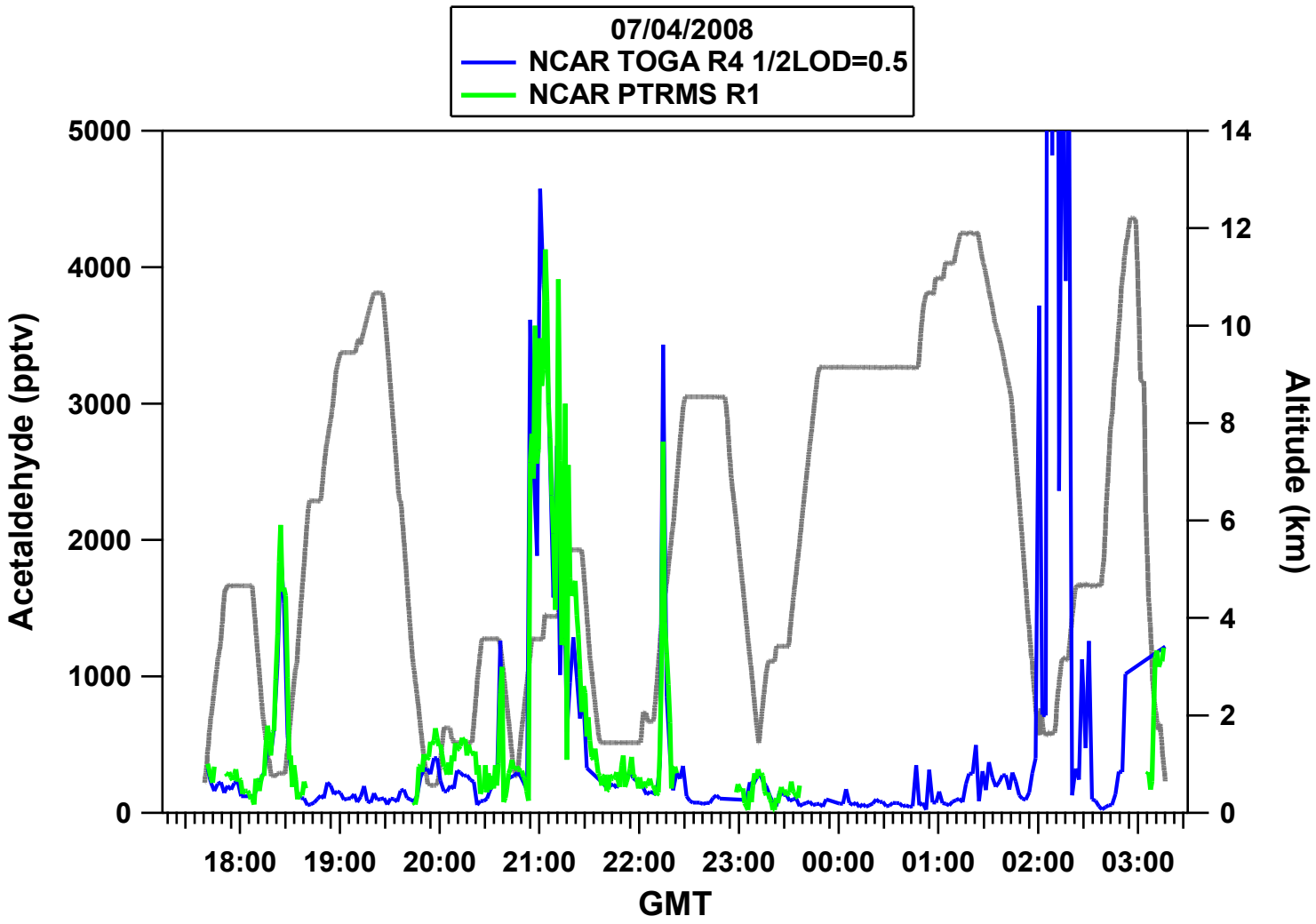
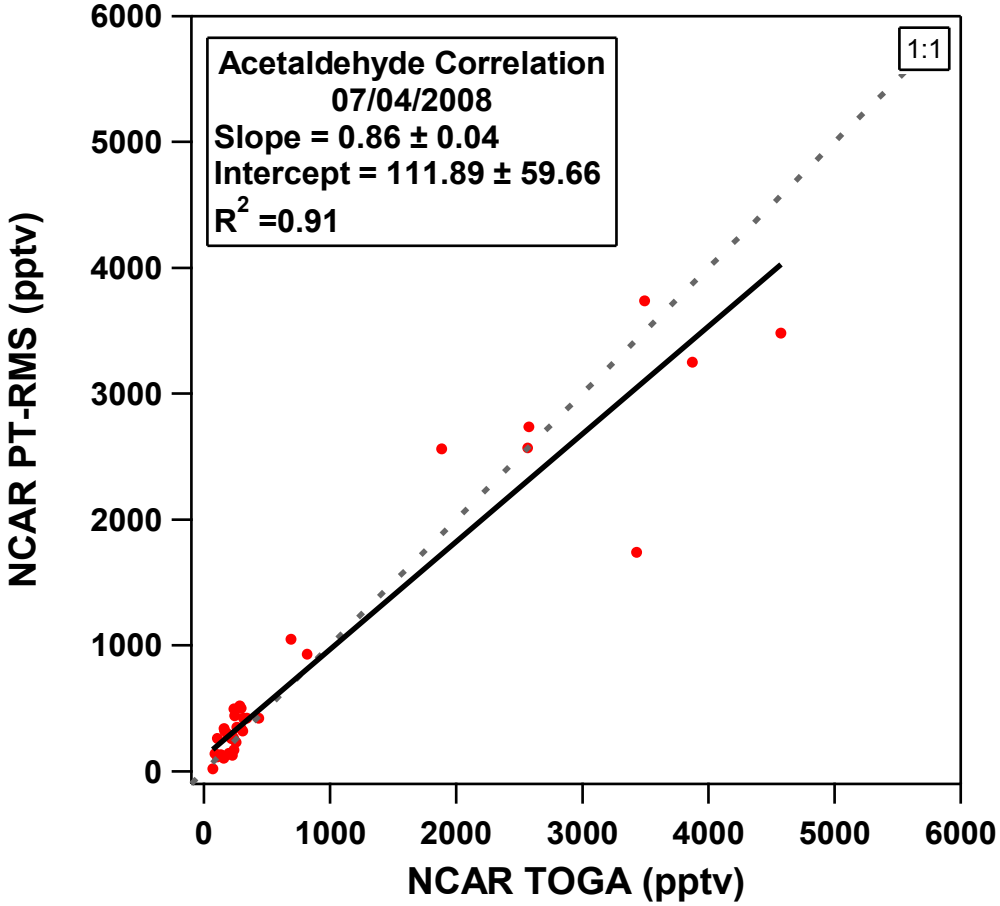
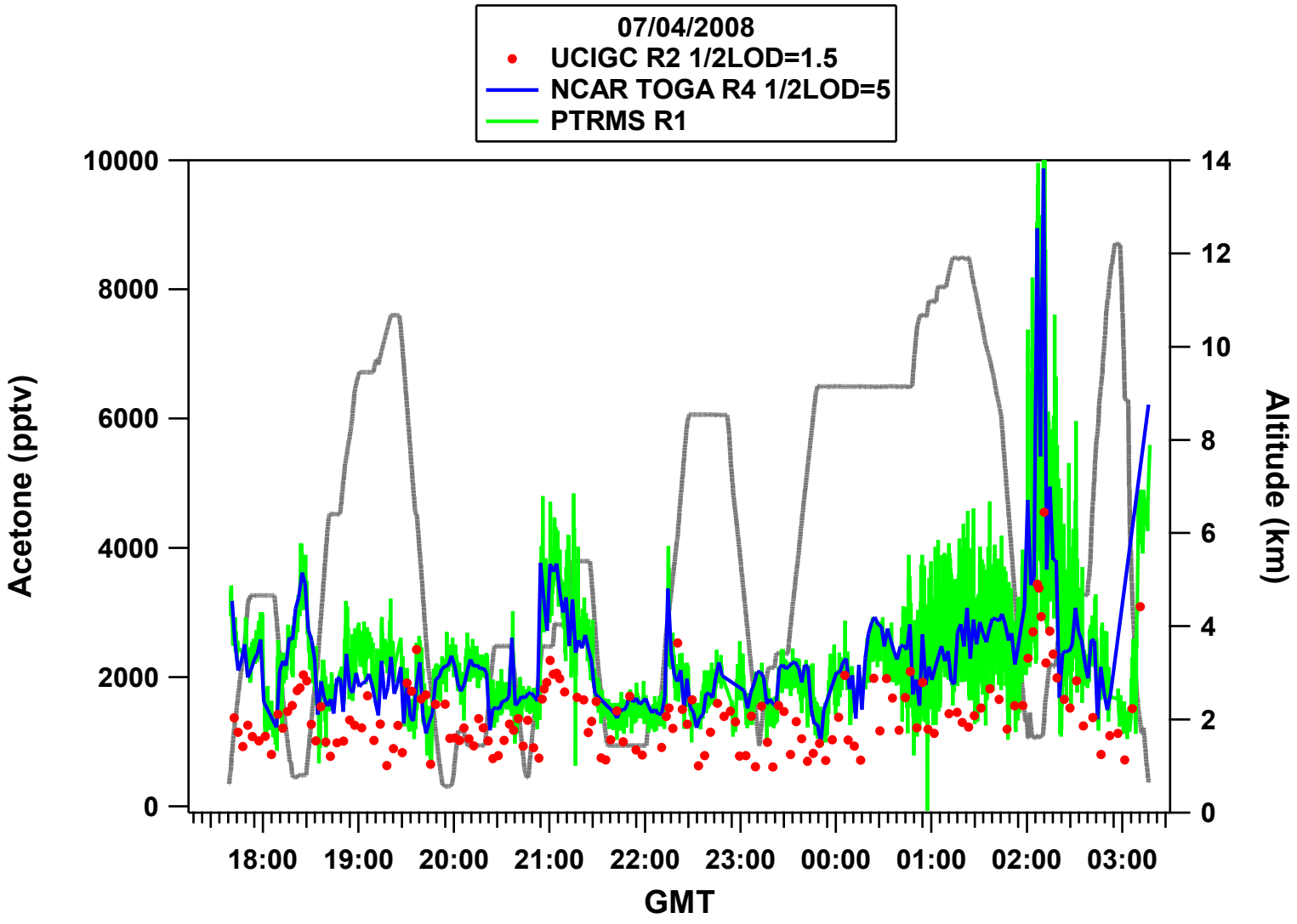
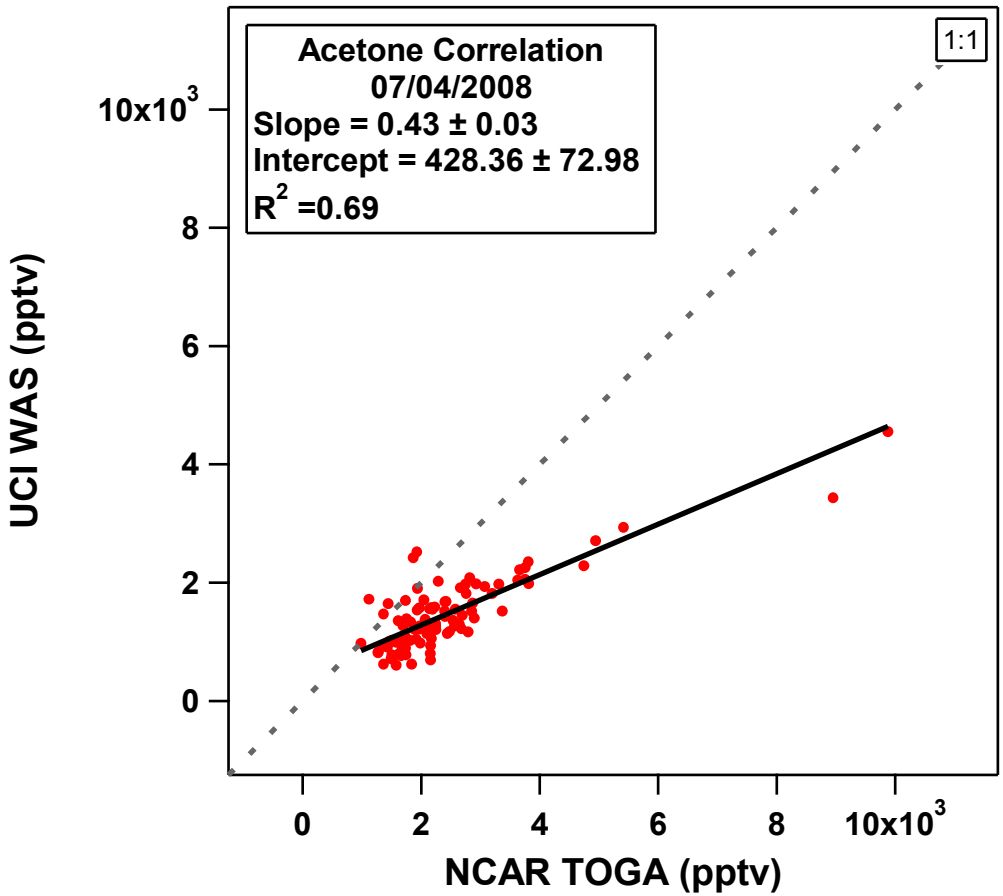
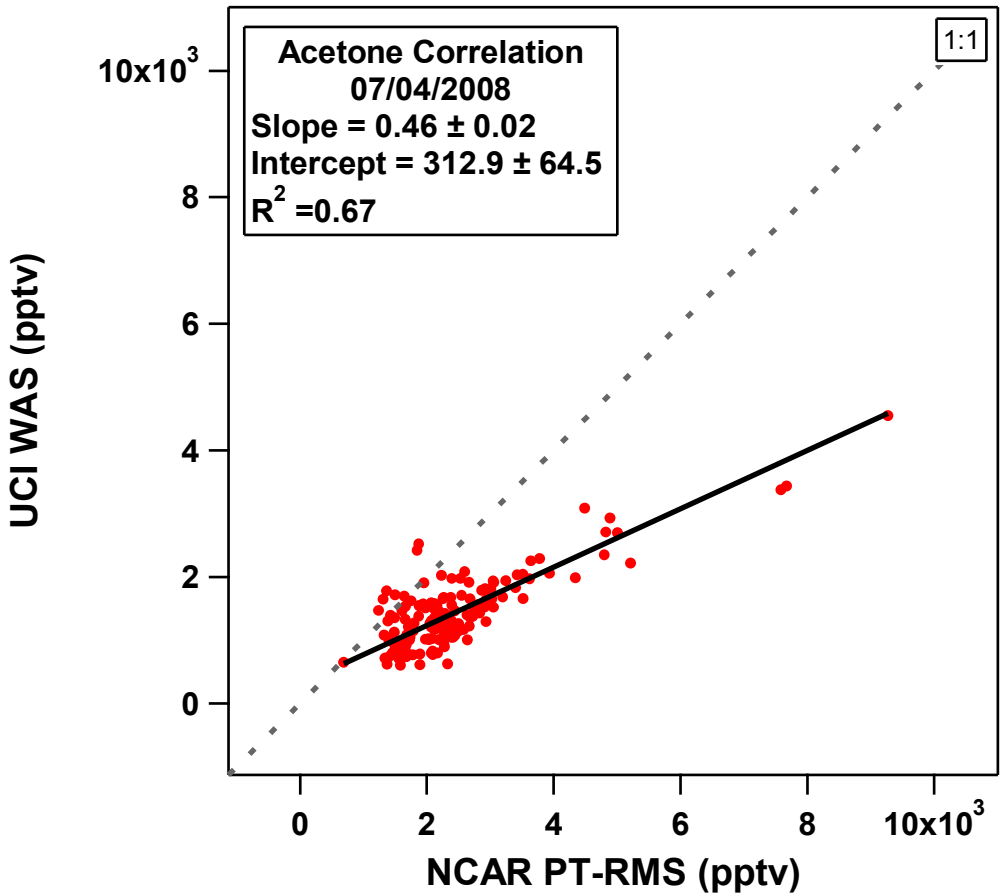
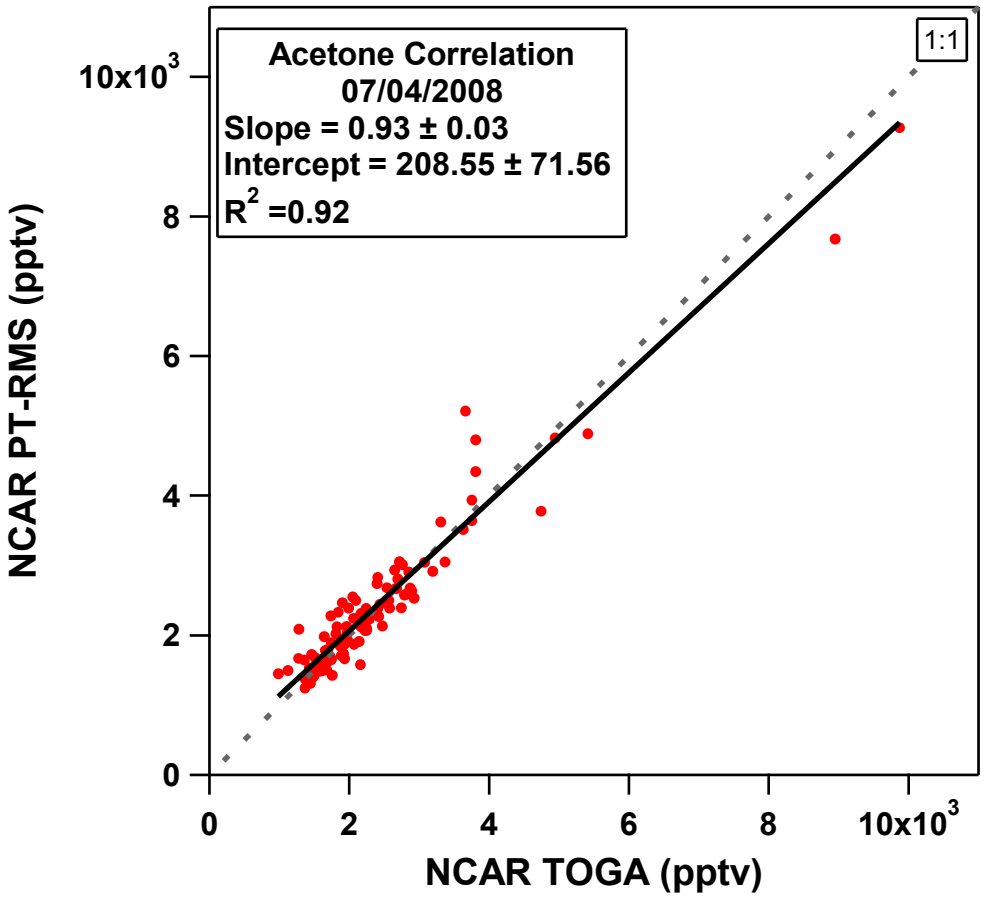

07/04/2008
NCAR TOGA R4 1/2LOD=0.5
NCAR PTRMS R1
Acetaldehyde (pptv)
Altitude (km)
GMT
5000
4000
3000
2000
1000
0
14
12
10
8
6
4
2
0
18:00
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00

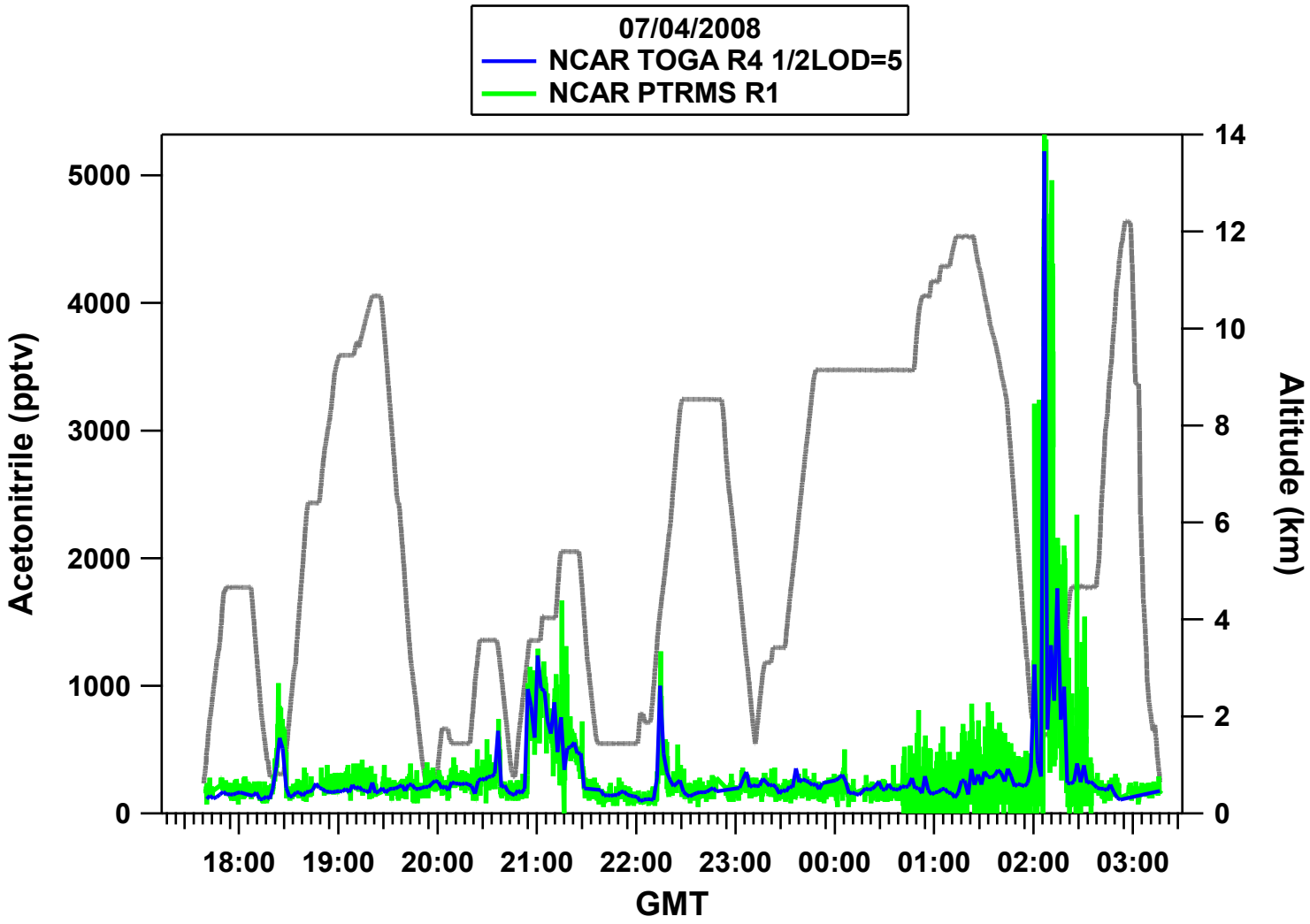

Acetaldehyde Correlation
07/04/2008
Slope = 0.86 ± 0.04
Intercept = 111.89 ± 59.66
R2 =0.91
1:1
NCAR PT-RMS (pptv)
NCAR TOGA (pptv)
0
1000
2000
3000
4000
5000
6000

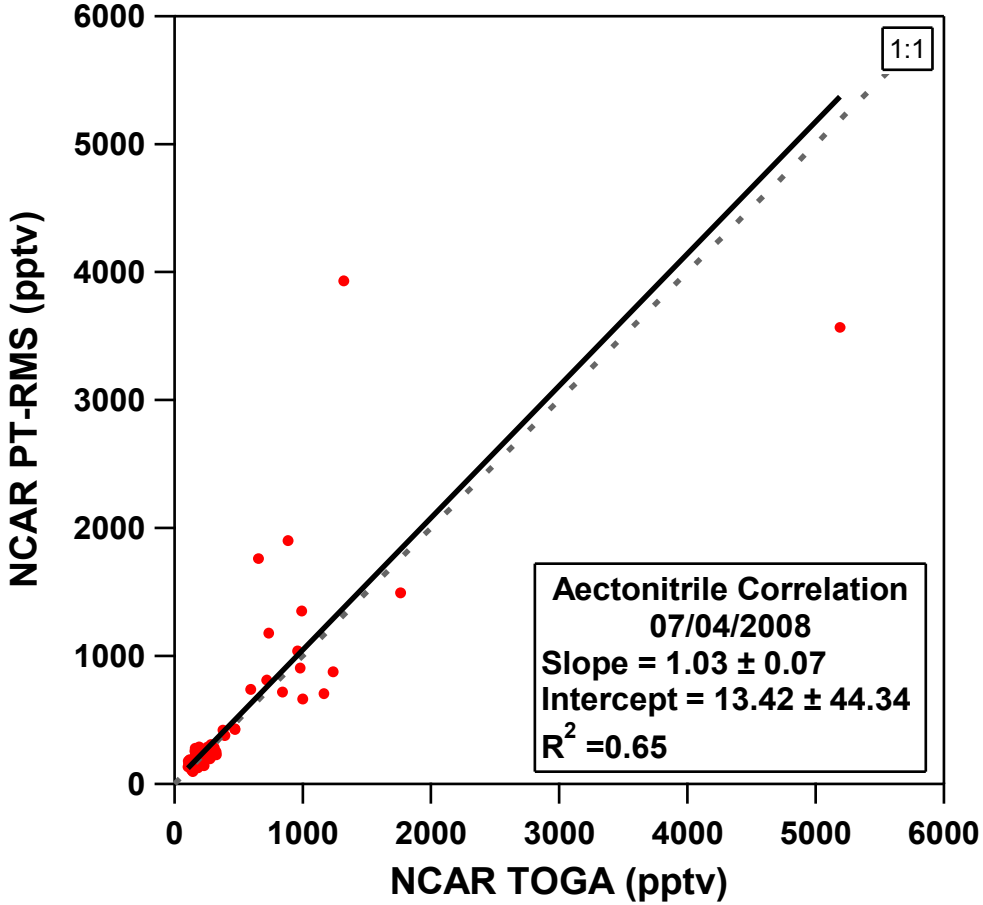

07/04/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=5
PTRMS R1
Acetone (pptv)
Altitude (km)
GMT
10000
8000
6000
4000
2000
0
14
12
10
8
6
4
2
0
18:00
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00

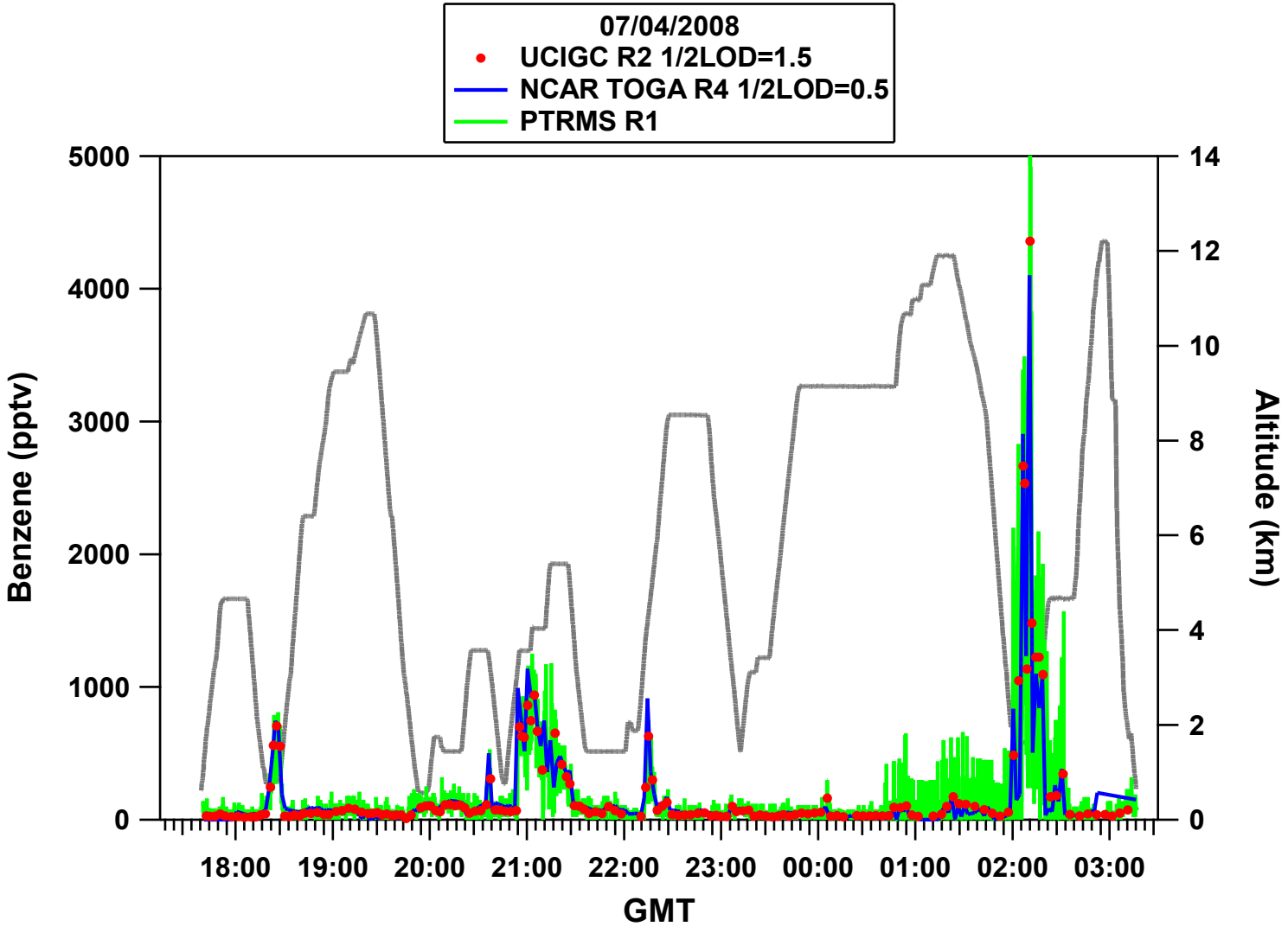

Acetone Correlation
07/04/2008
Slope = 0.43 ± 0.03
Intercept = 428.36 ± 72.98
R2 =0.69
1:1
10x10^3
8
6
4
2
0
UCI WAS (pptv)
0
2
4
6
8
10x10^3
NCAR TOGA (pptv)

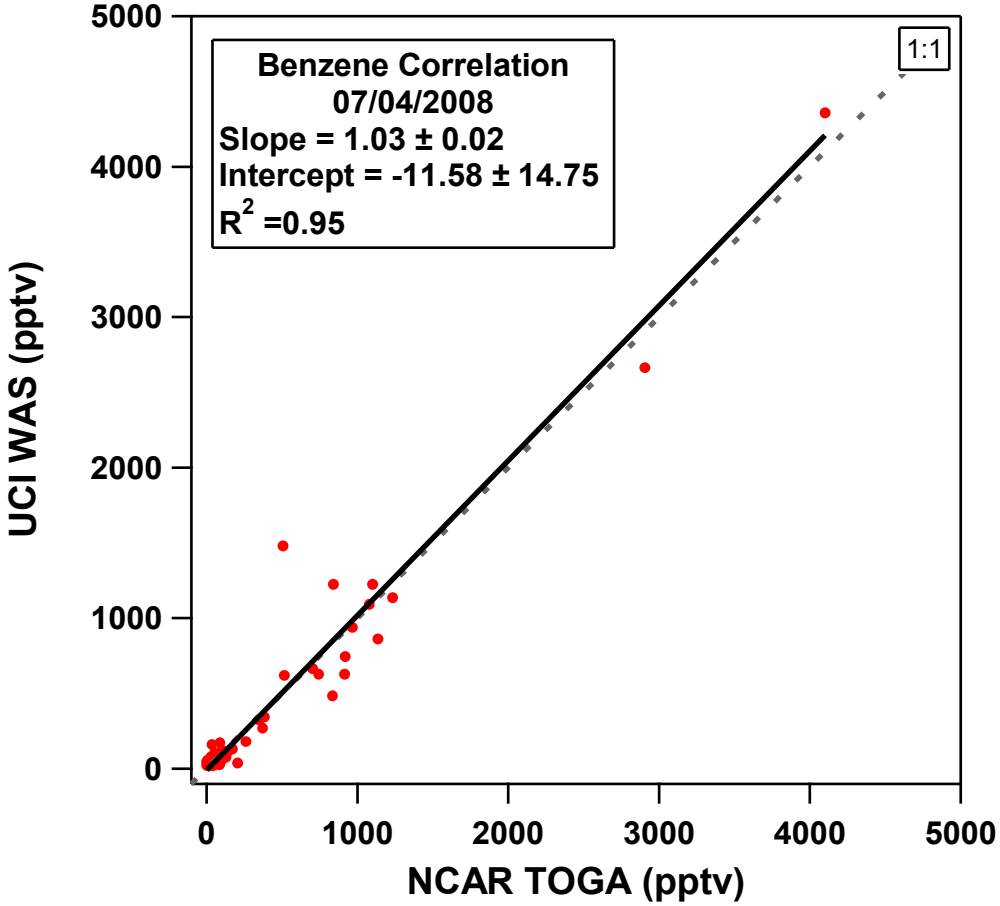

Acetone Correlation
07/04/2008
Slope = 0.46 ± 0.02
Intercept = 312.9 ± 64.5
R2 =0.67
1:1
10x10^3
8
6
4
2
0
UCI WAS (pptv)
0
2
4
6
8
10x10^3
NCAR PT-RMS (pptv)

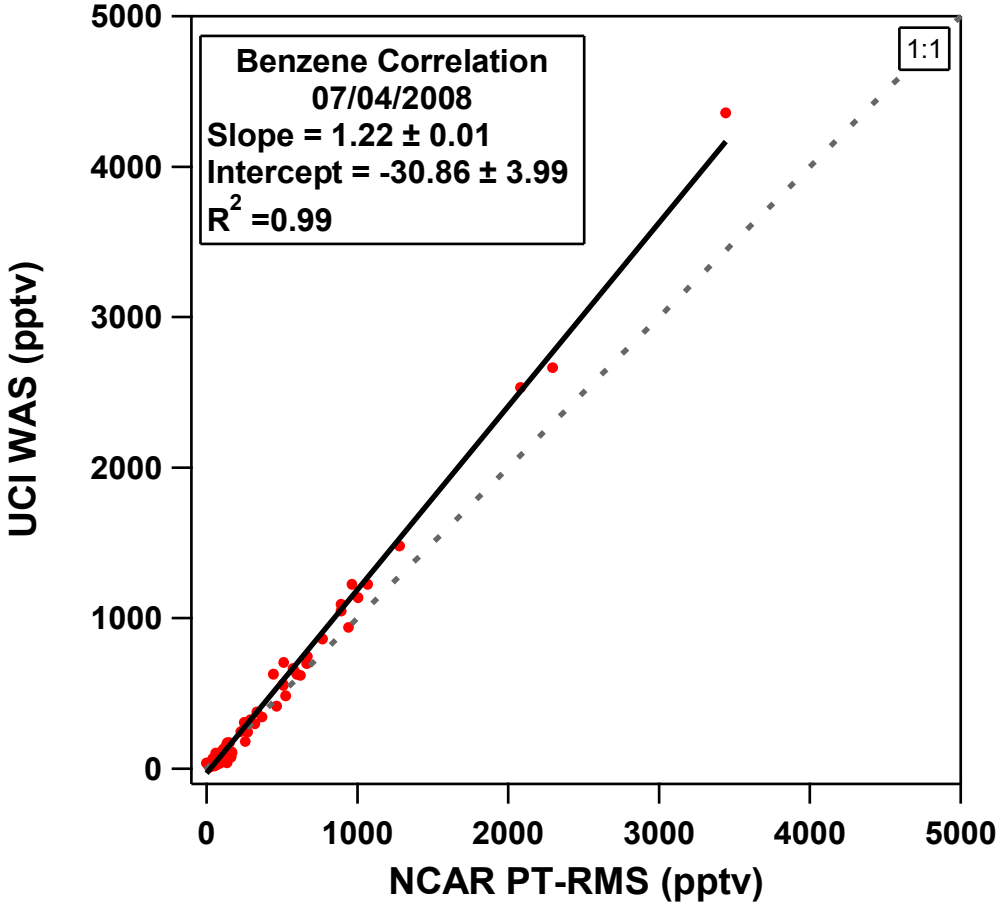

Acetone Correlation
07/04/2008
Slope = 0.93 ± 0.03
Intercept = 208.55 ± 71.56
R2 =0.92
1:1
NCAR PT-RMS (pptv)
NCAR TOGA (pptv)
0
2
4
6
8
10x10^3

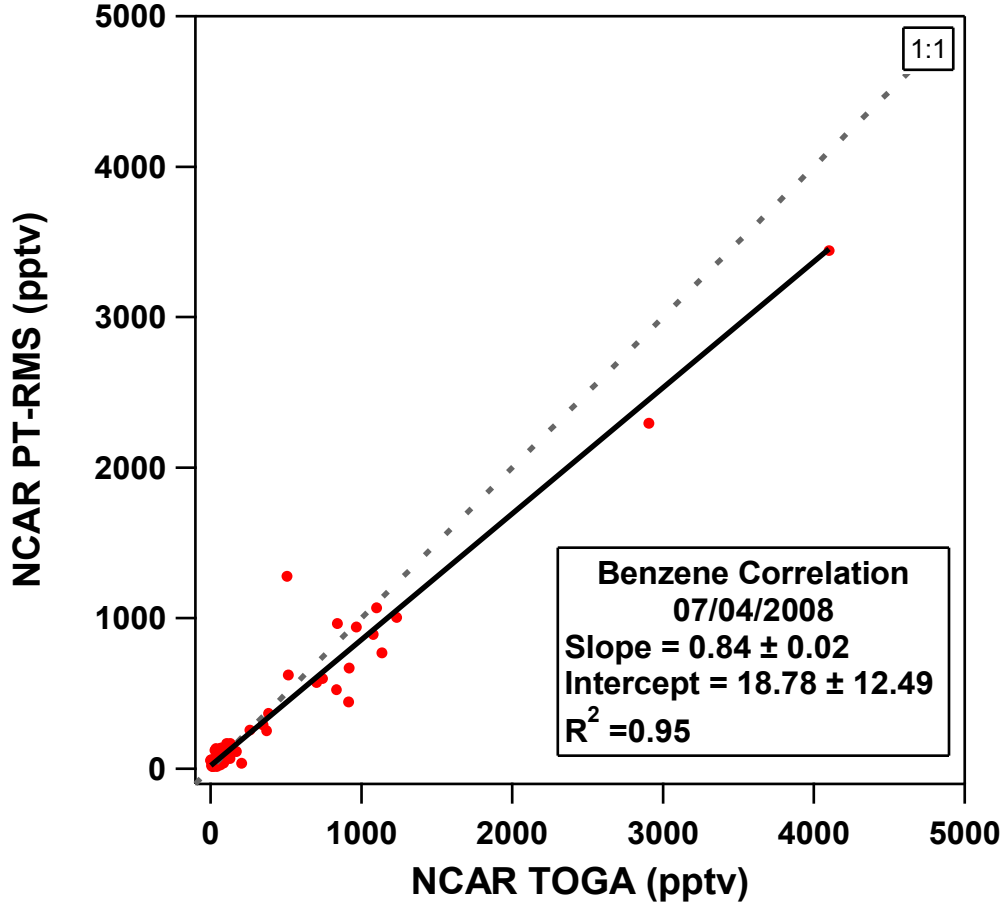

07/04/2008
NCAR TOGA R4 1/2LOD=5
NCAR PTRMS R1
Acetonitrile (pptv)
0
1000
2000
3000
4000
5000
Altitude (km)
0
2
4
6
8
10
12
14
18:00
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00
GMT

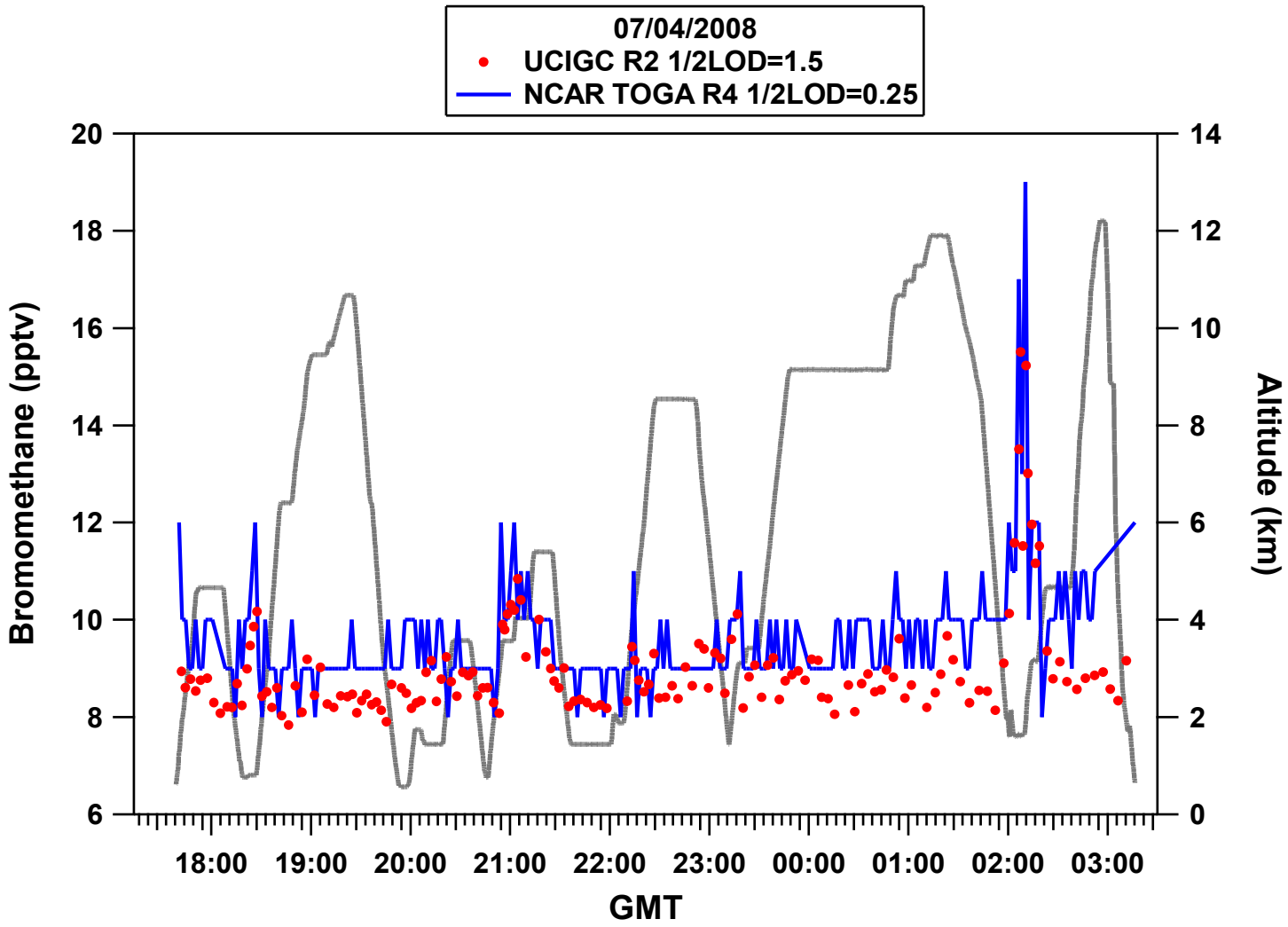

1:1
Aectonitrile Correlation
07/04/2008
Slope = 1.03 ± 0.07
Intercept = 13.42 ± 44.34
R2 =0.65
NCAR PT-RMS (pptv)
NCAR TOGA (pptv)
0
1000
2000
3000
4000
5000
6000

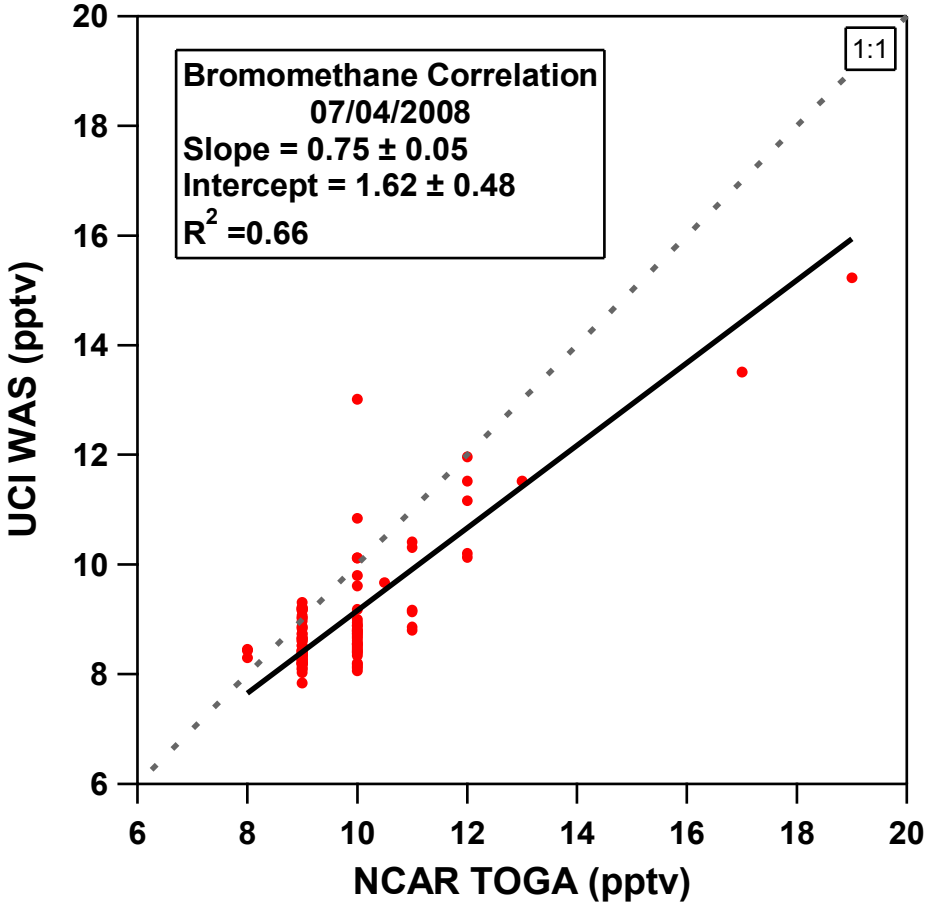

07/04/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
PTRMS R1
Benzene (pptv)
5000
4000
3000
2000
1000
0
Altitude (km)
14
12
10
8
6
4
2
0
18:00
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00
GMT

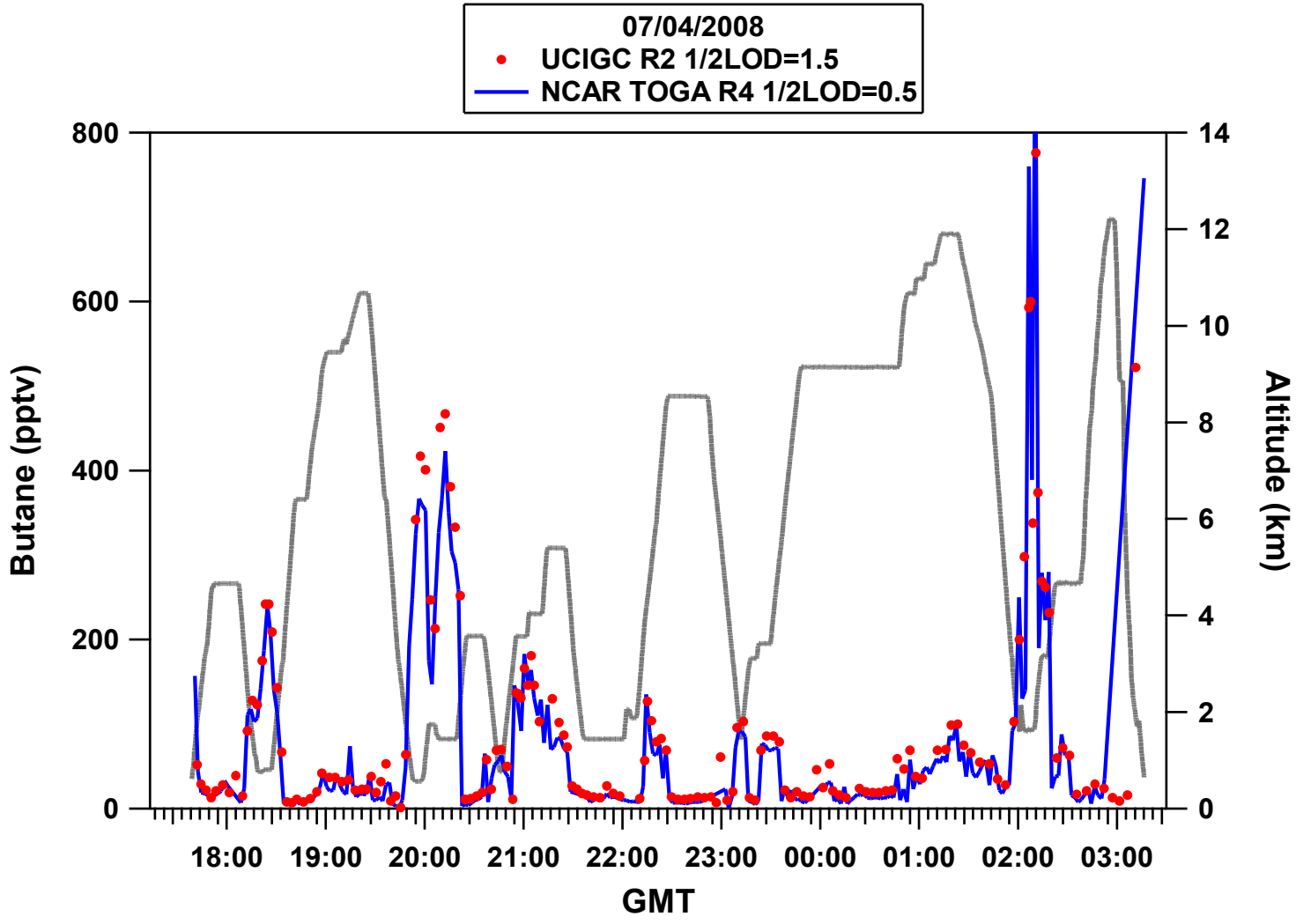

Benzene Correlation
07/04/2008
Slope = 1.03 ± 0.02
Intercept = -11.58 ± 14.75
R2 =0.95
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
0
1000
2000
3000
4000
5000

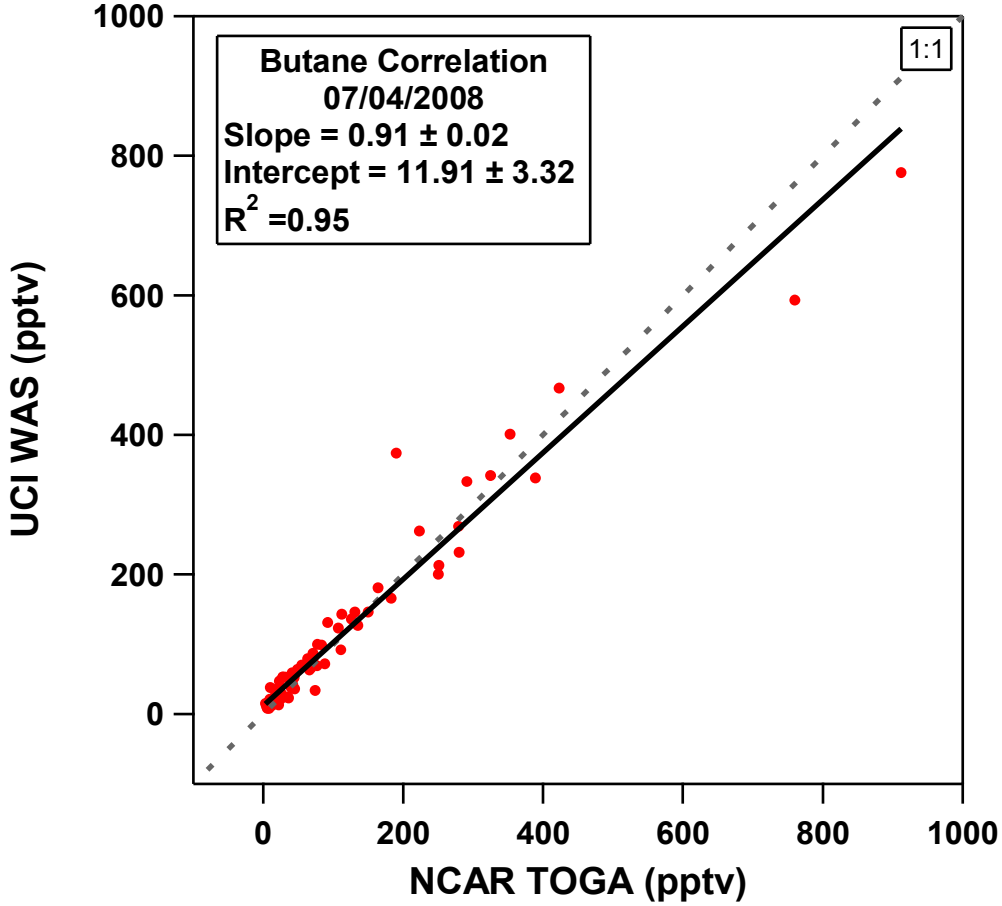

Benzene Correlation
07/04/2008
Slope = 1.22 ± 0.01
Intercept = -30.86 ± 3.99
R2 =0.99
1:1
UCI WAS (pptv)
NCAR PT-RMS (pptv)
0
1000
2000
3000
4000
5000

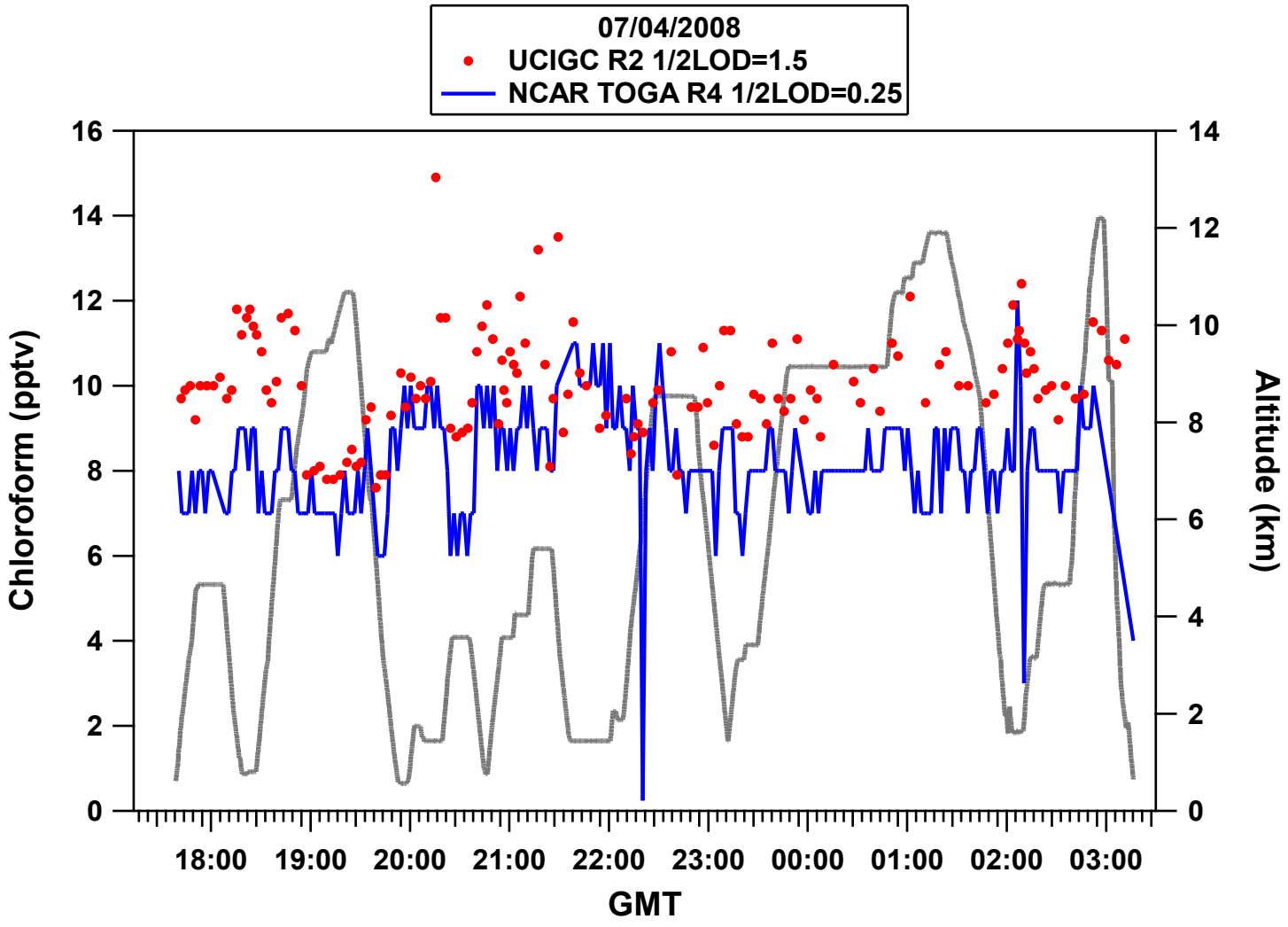

1:1
Benzene Correlation
07/04/2008
Slope = 0.84 ± 0.02
Intercept = 18.78 ± 12.49
R2 =0.95
NCAR PT-RMS (pptv)
NCAR TOGA (pptv)
0
1000
2000
3000
4000
5000

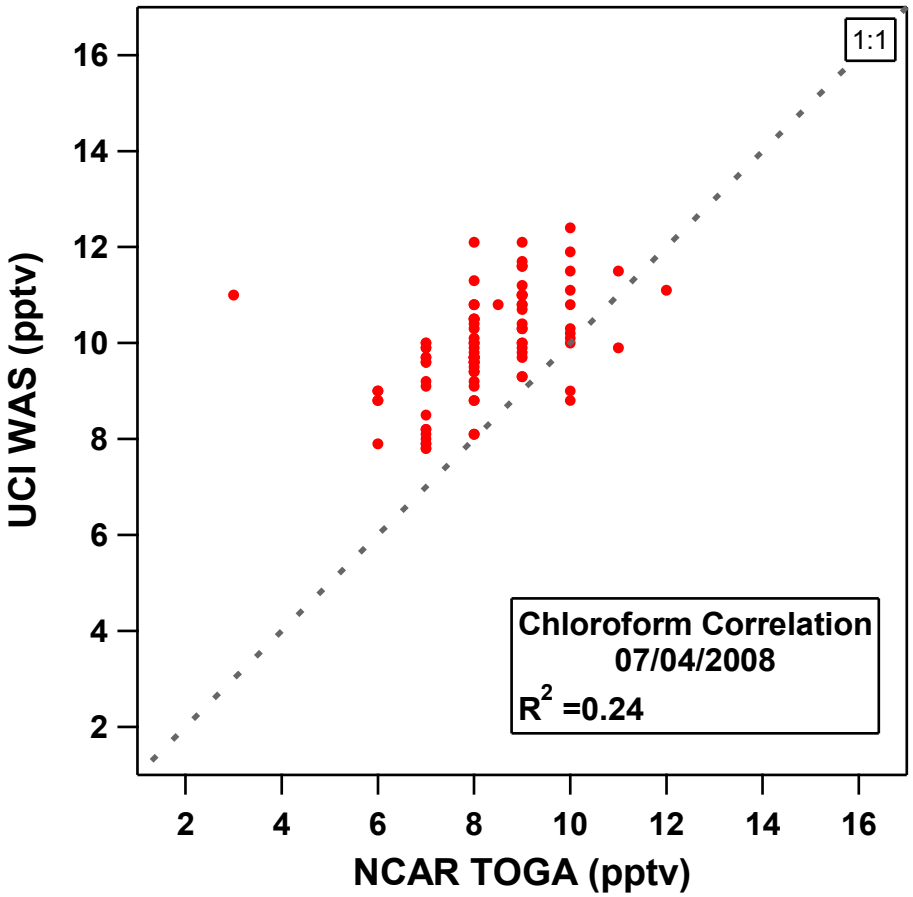

07/04/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.25
Bromomethane (pptv)
Altitude (km)
GMT
20
18
16
14
12
10
8
6
14
12
10
8
6
4
2
0
18:00
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00

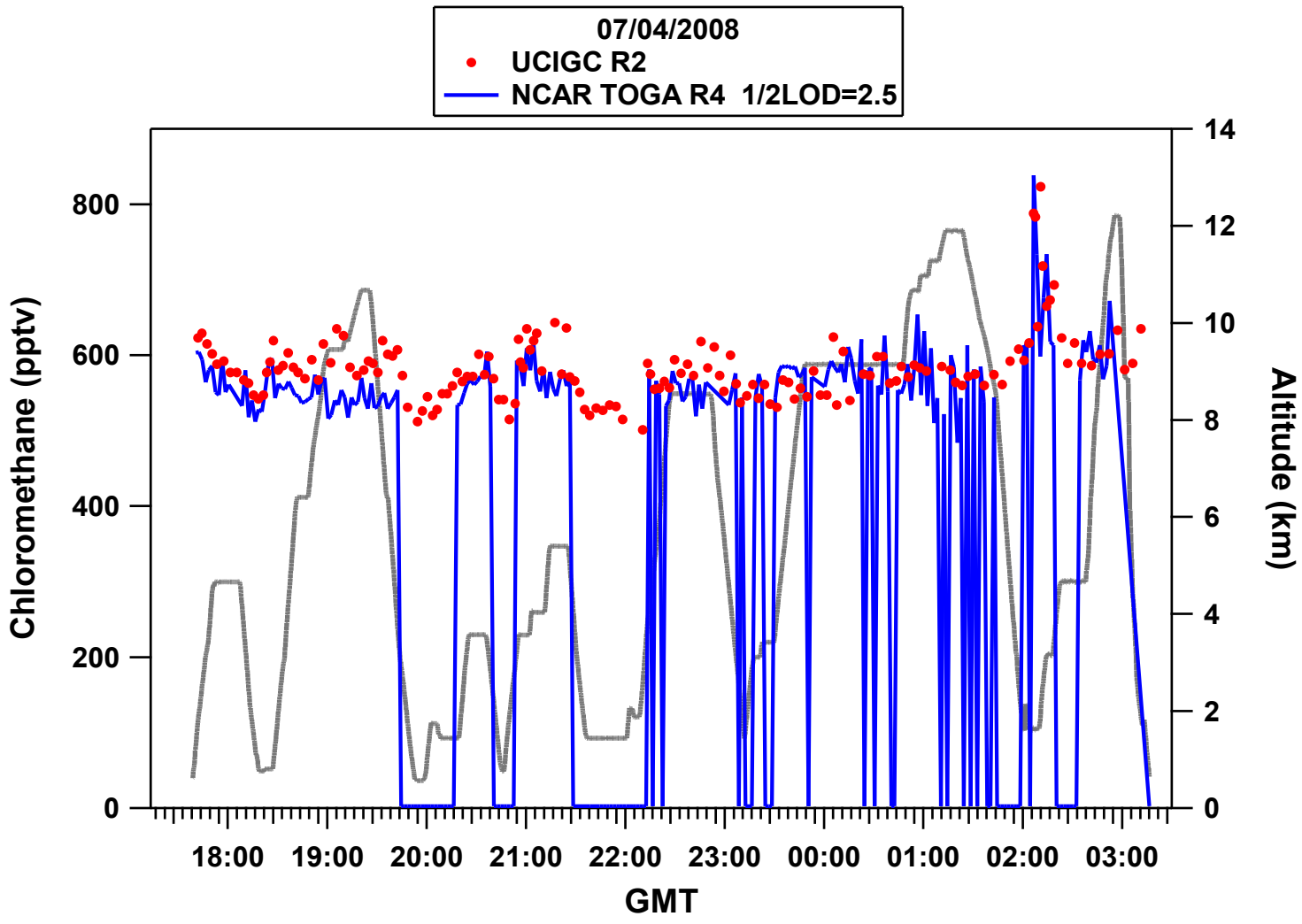

Bromomethane Correlation
07/04/2008
Slope = 0.75 ± 0.05
Intercept = 1.62 ± 0.48
R2 =0.66
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
6
8
10
12
14
16
18
20

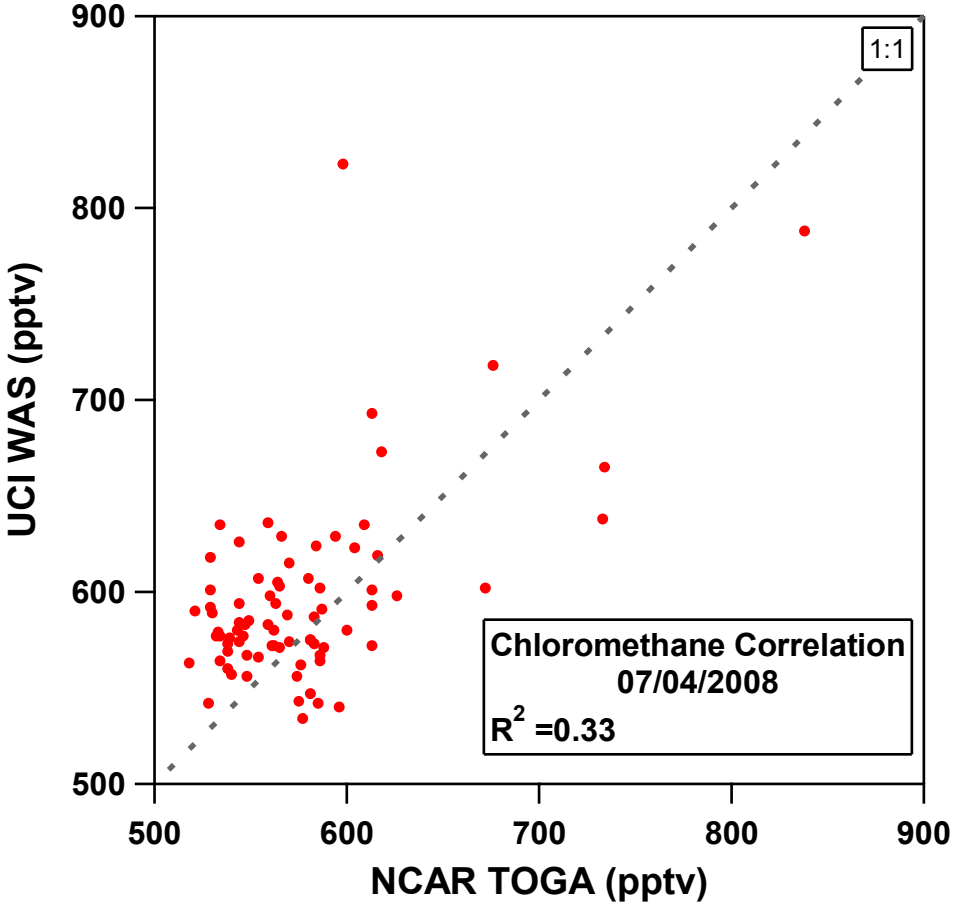

07/04/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
Butane (pptv)
Altitude (km)
GMT
800
600
400
200
0
14
12
10
8
6
4
2
0
18:00
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00

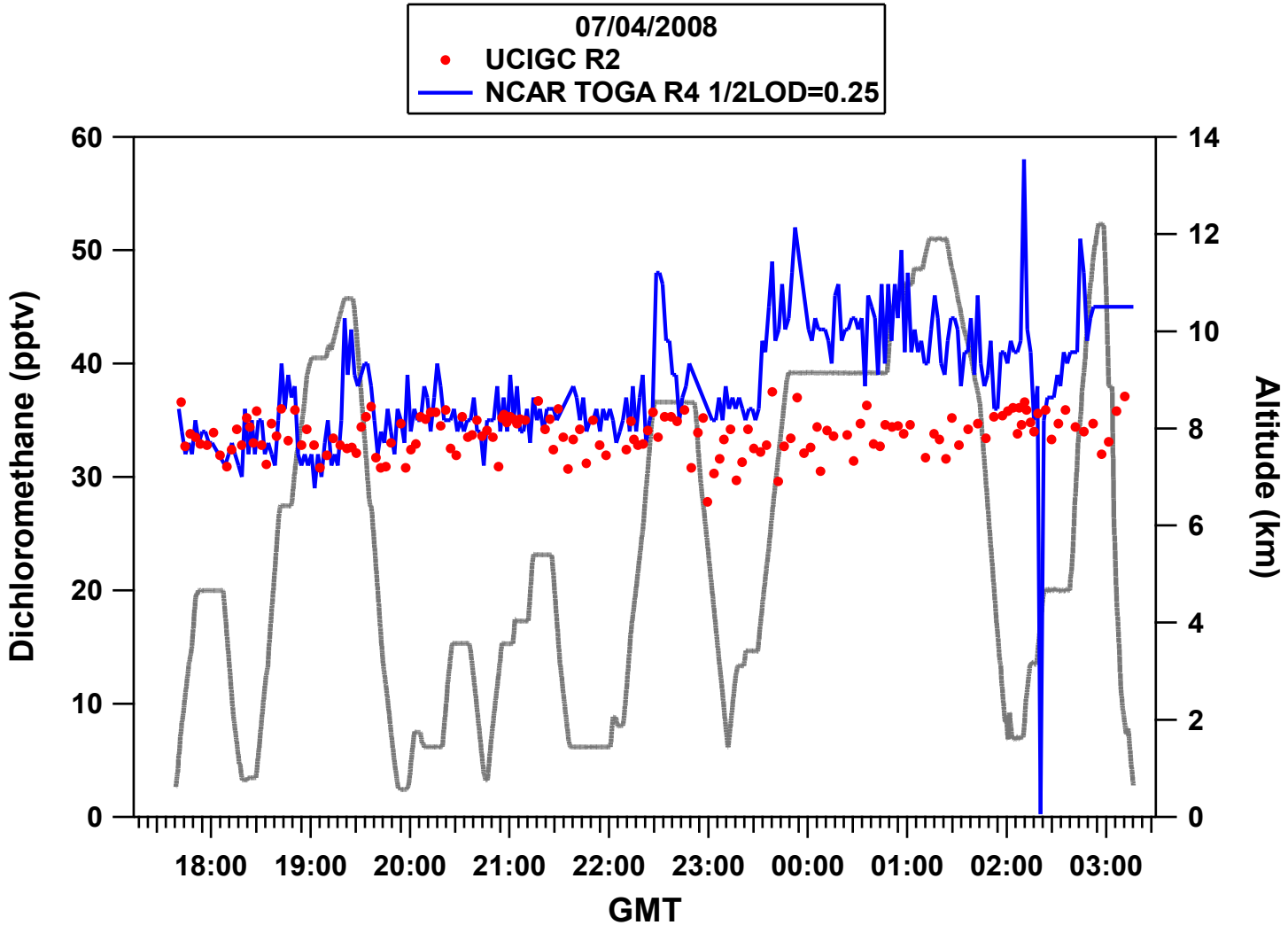

Butane Correlation
07/04/2008
Slope = 0.91 ± 0.02
Intercept = 11.91 ± 3.32
R2 =0.95
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
1000
800
600
400
200
0
0
200
400
600
800
1000

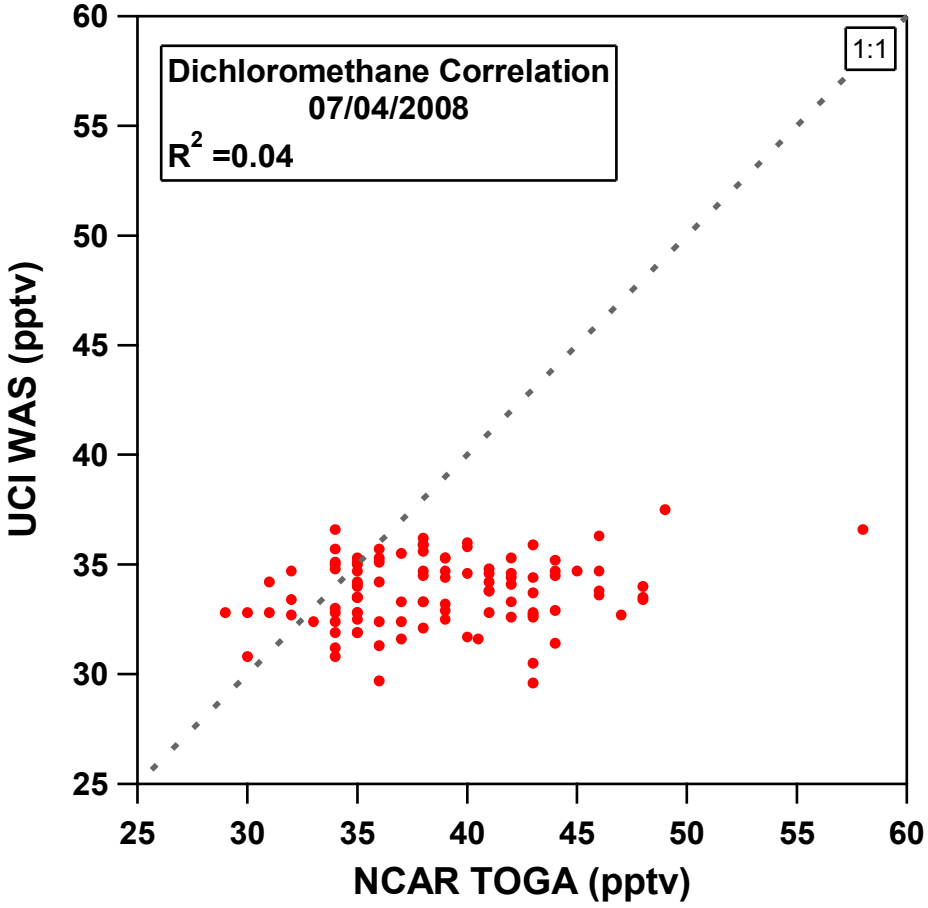

07/04/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.25
Chloroform (pptv)
Altitude (km)
GMT
0
2
4
6
8
10
12
14
16
18:00
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00

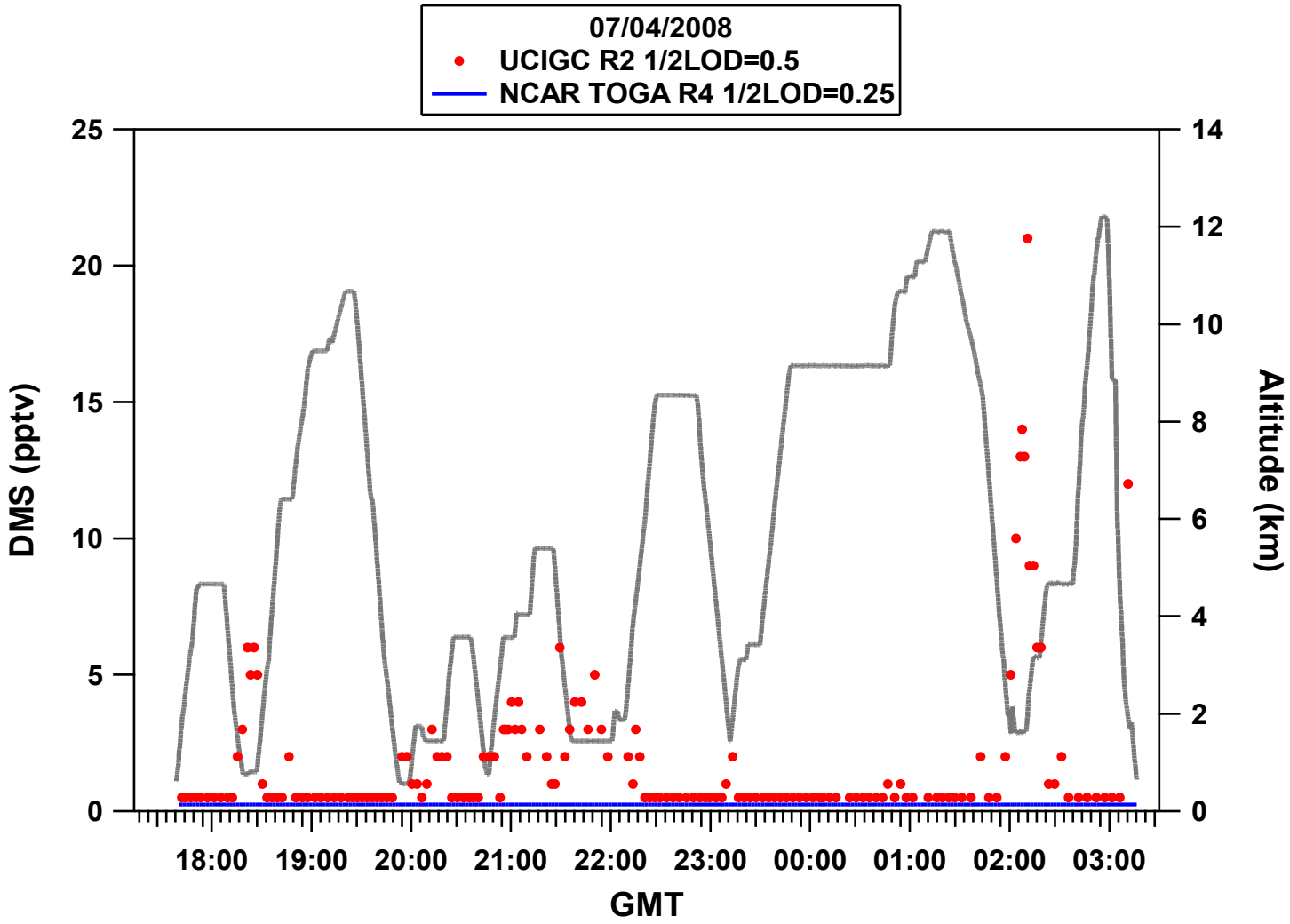

1:1
Chloroform Correlation
07/04/2008
R2 =0.24
UCI WAS (pptv)
NCAR TOGA (pptv)
2
4
6
8
10
12
14
16

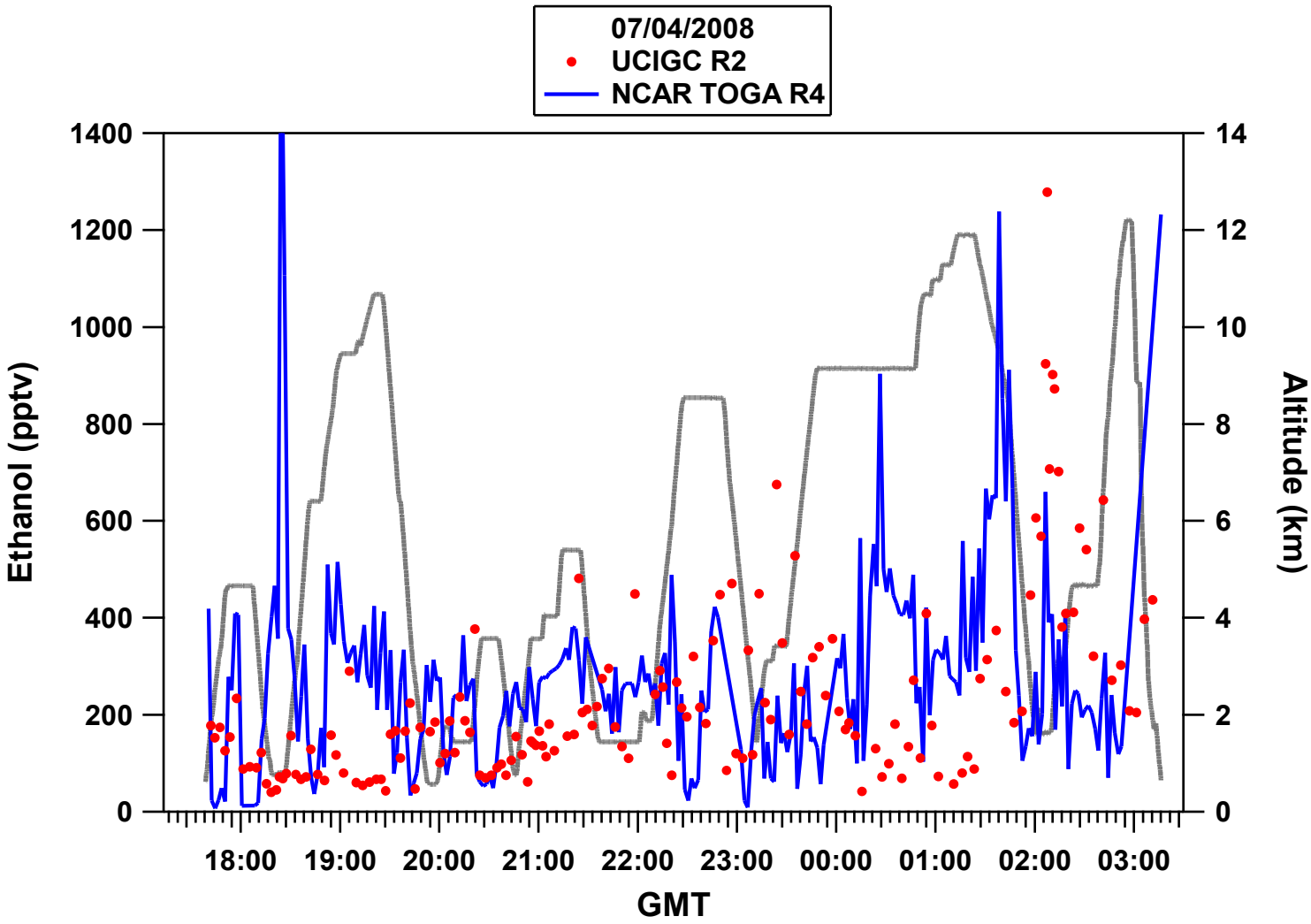

07/04/2008
UCIGC R2
NCAR TOGA R4 1/2LOD=2.5
Chloromethane (pptv)
0
200
400
600
800
Altitude (km)
0
2
4
6
8
10
12
14
18:00
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00
GMT

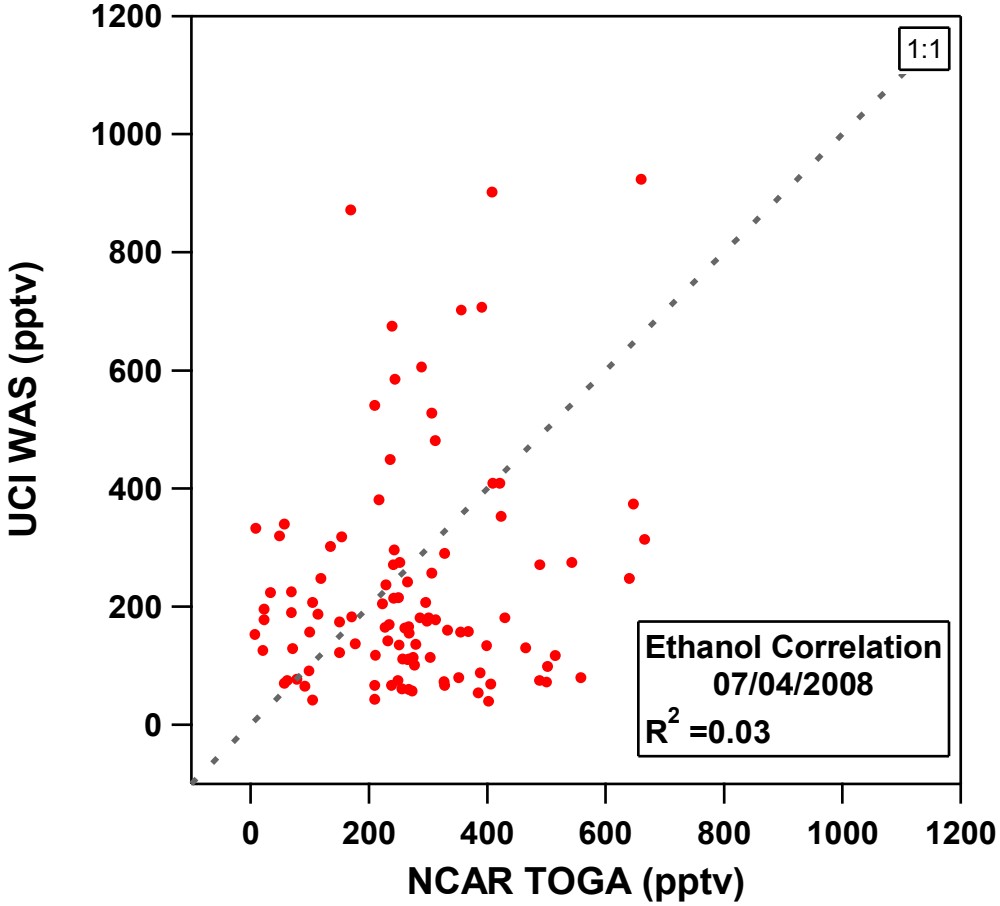

900
800
700
600
500
UCI WAS (pptv)
500
600
700
800
900
NCAR TOGA (pptv)
1:1
Chloromethane Correlation
07/04/2008
R2 =0.33

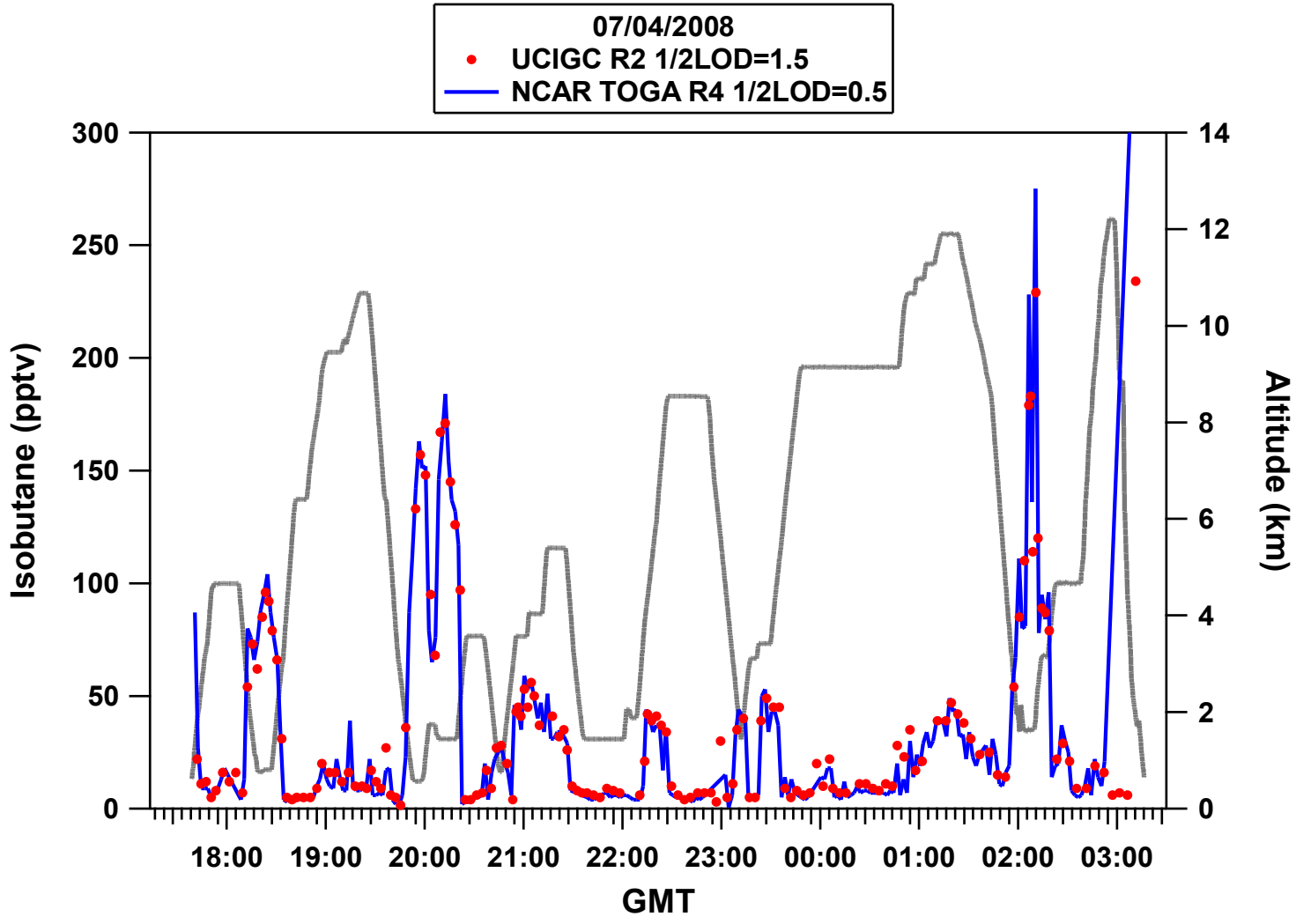

07/04/2008
UCIGC R2
NCAR TOGA R4 1/2LOD=0.25
Dichloromethane (pptv)
Altitude (km)
GMT
0
10
20
30
40
50
60
0
2
4
6
8
10
12
14
18:00
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00

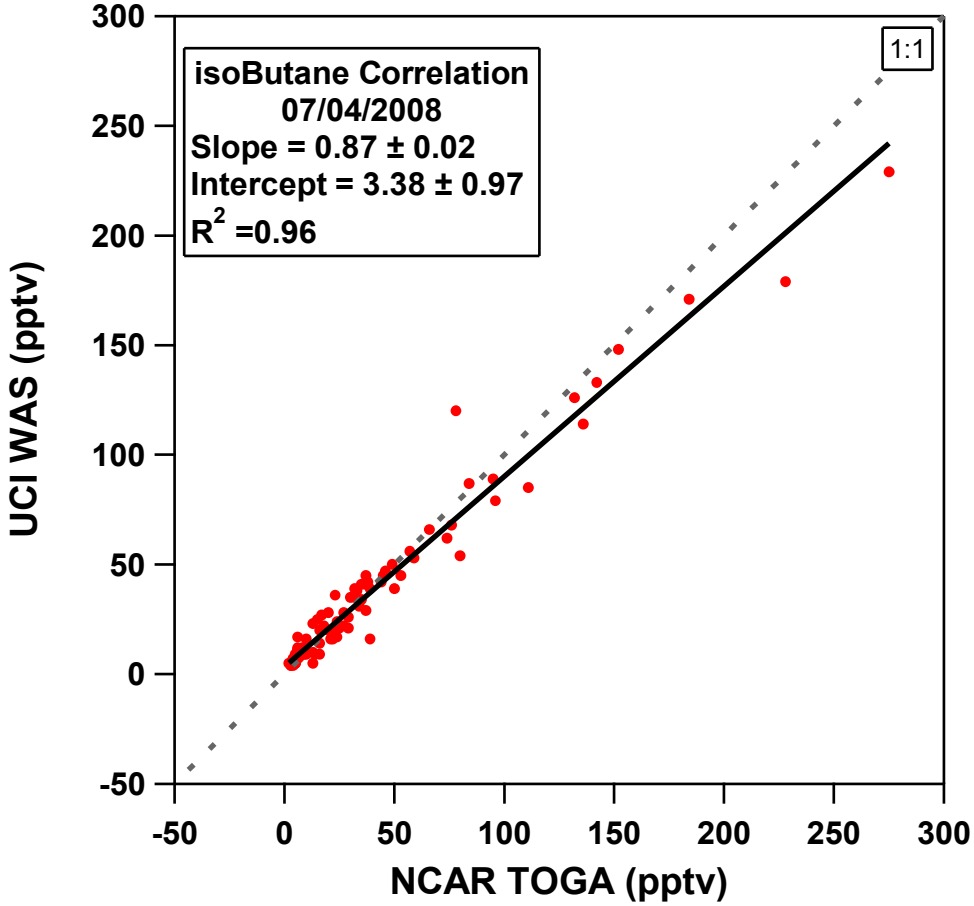

Dichloromethane Correlation
07/04/2008
R2 =0.04
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
25
30
35
40
45
50
55
60

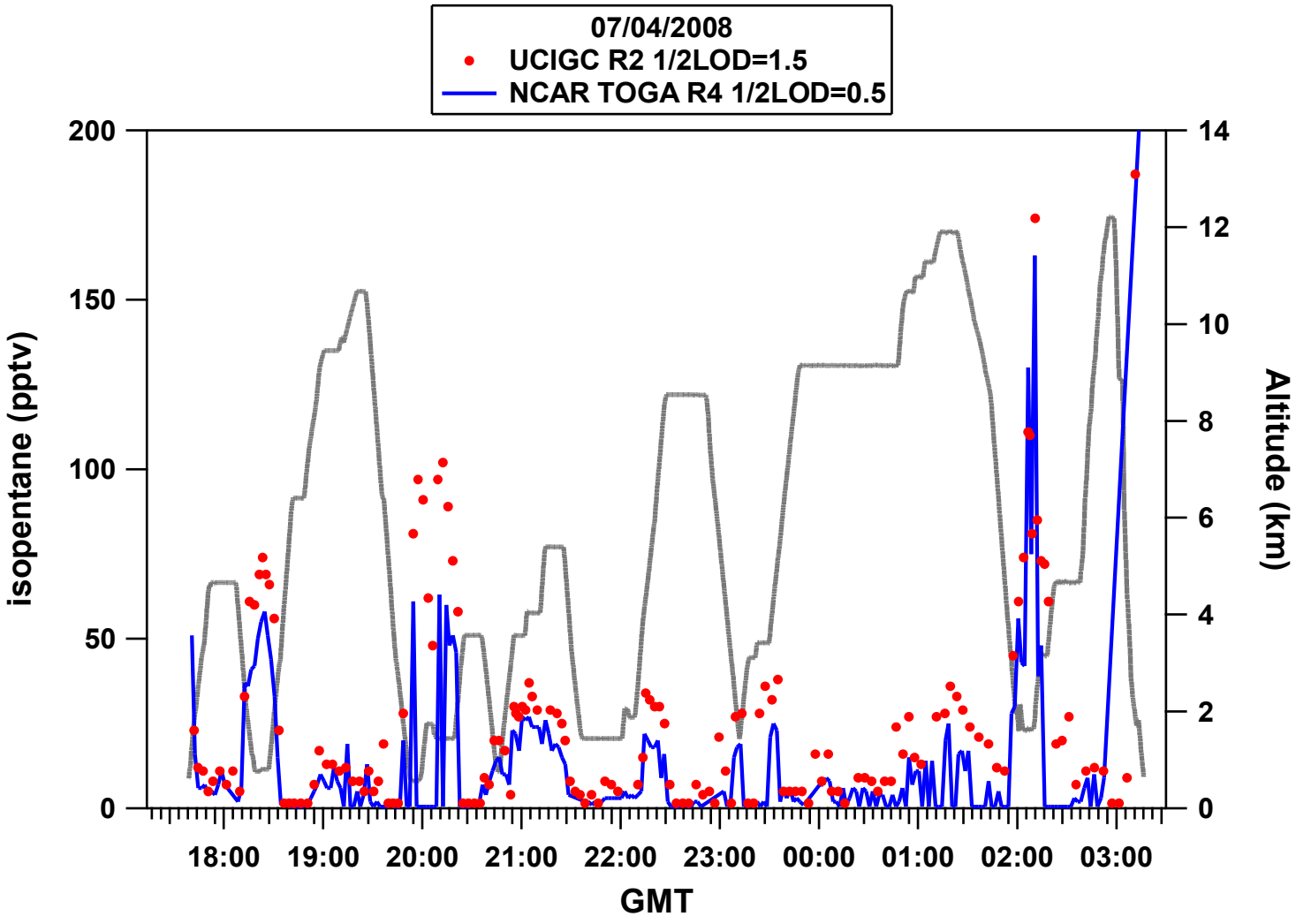

07/04/2008
UCIGC R2 1/2LOD=0.5
NCAR TOGA R4 1/2LOD=0.25
DMS (pptv)
Altitude (km)
GMT
0
5
10
15
20
25
0
2
4
6
8
10
12
14
18:00
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00

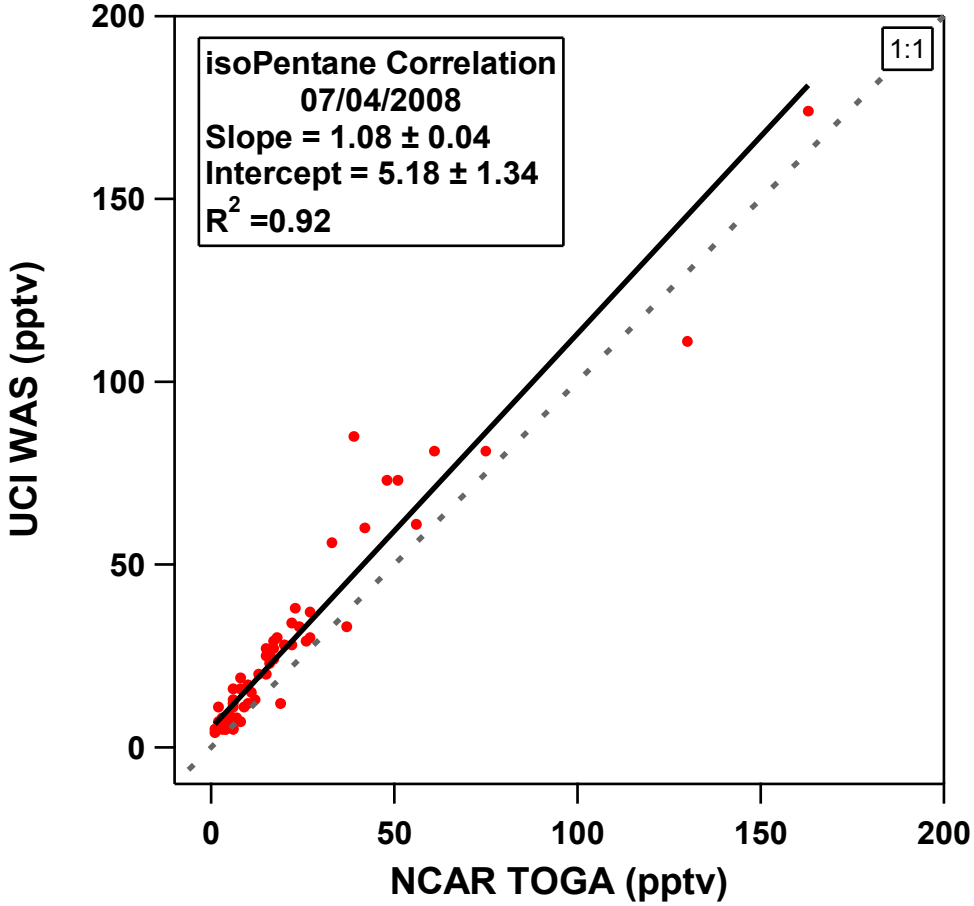

07/04/2008
UCIGC R2
NCAR TOGA R4
Ethanol (pptv)
Altitude (km)
GMT
0
200
400
600
800
1000
1200
1400
0
2
4
6
8
10
12
14
18:00
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00

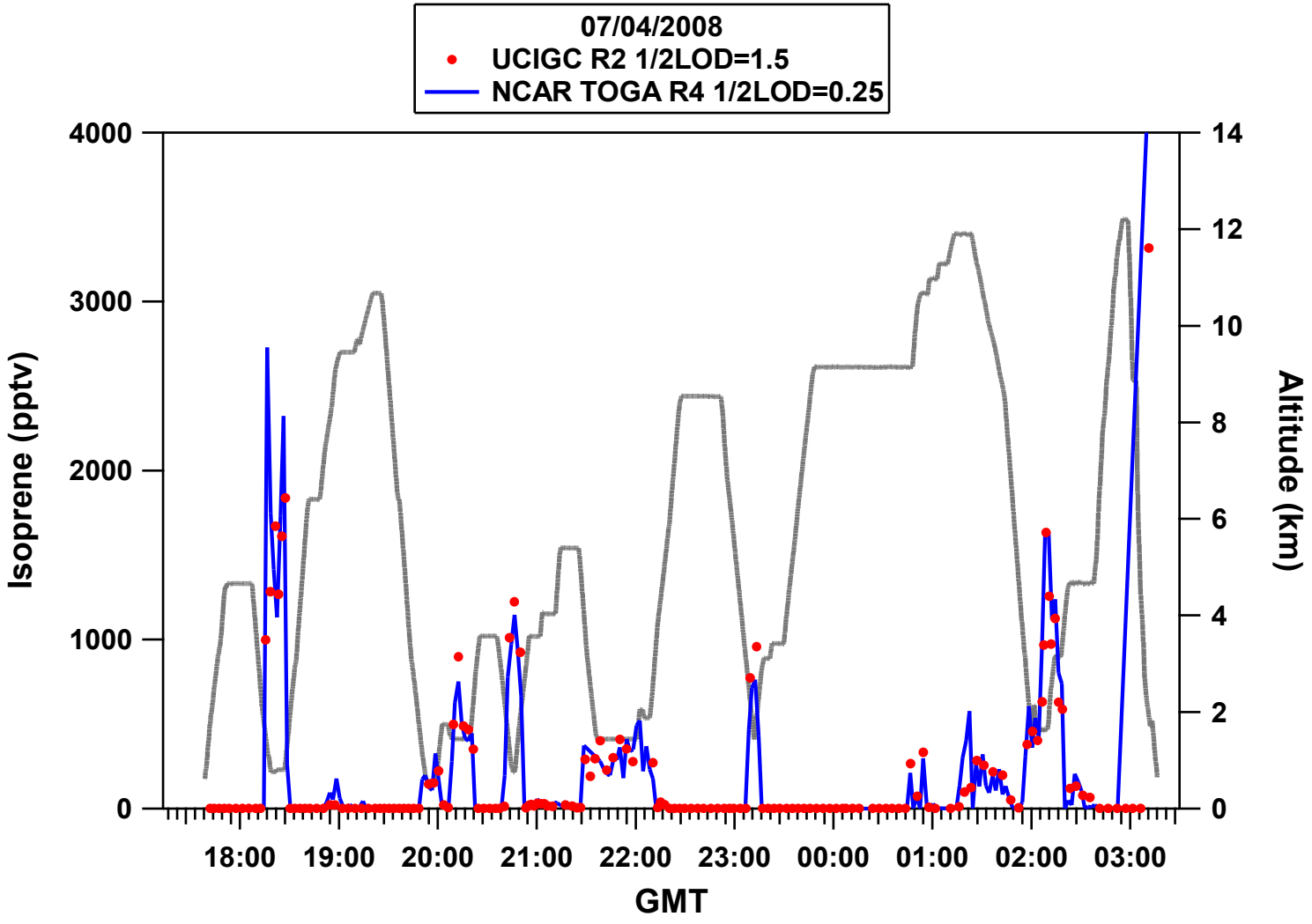

1:1
Ethanol Correlation
07/04/2008
R2 =0.03
UCI WAS (pptv)
NCAR TOGA (pptv)
0
200
400
600
800
1000
1200

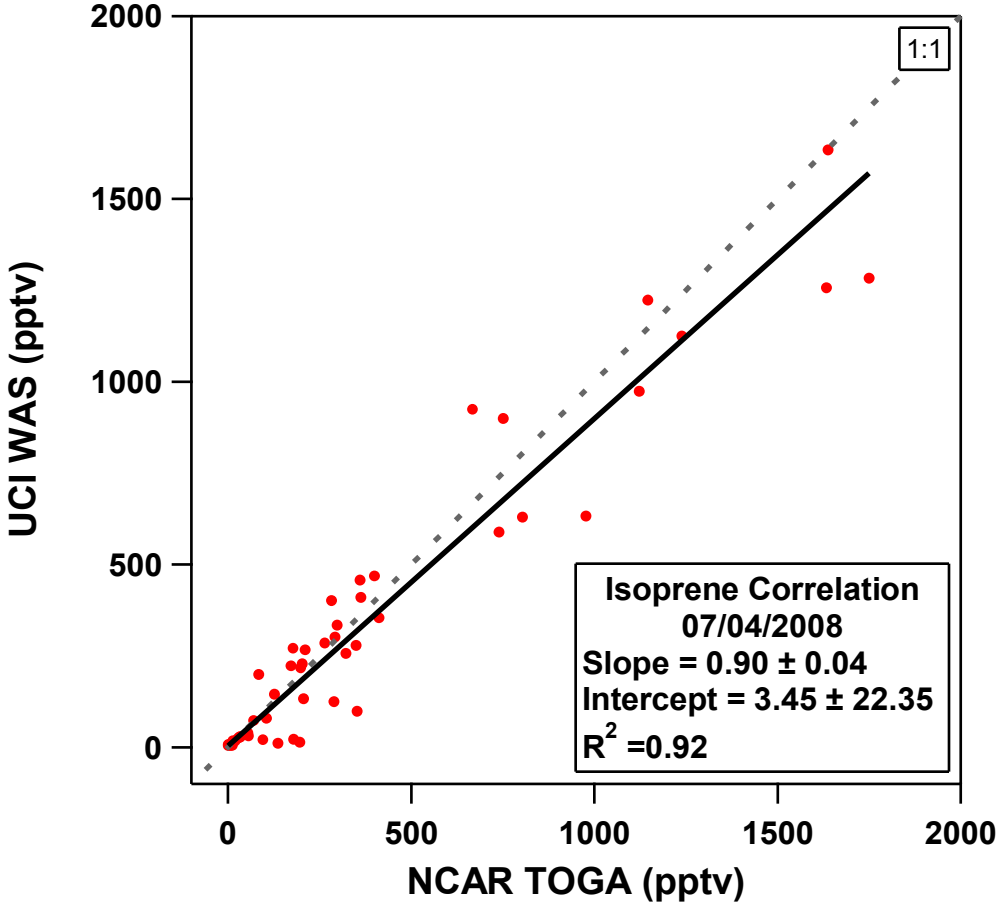

07/04/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
Isobutane (pptv)
Altitude (km)
GMT
300
250
200
150
100
50
0
14
12
10
8
6
4
2
0
18:00
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00

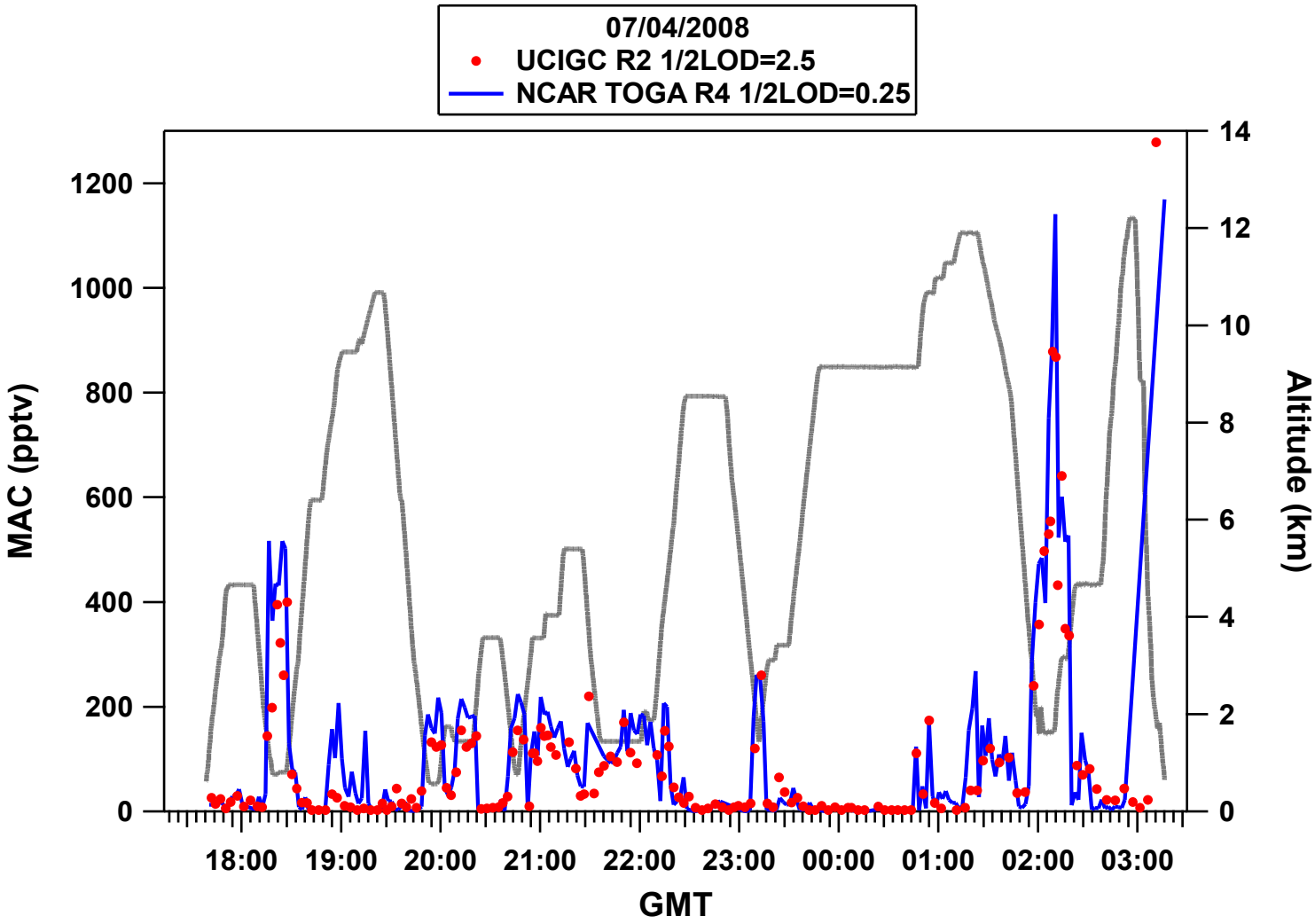

isoButane Correlation
07/04/2008
Slope = 0.87 ± 0.02
Intercept = 3.38 ± 0.97
R2 =0.96
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
300
250
200
150
100
50
0
-50
-50
0
50
100
150
200
250
300

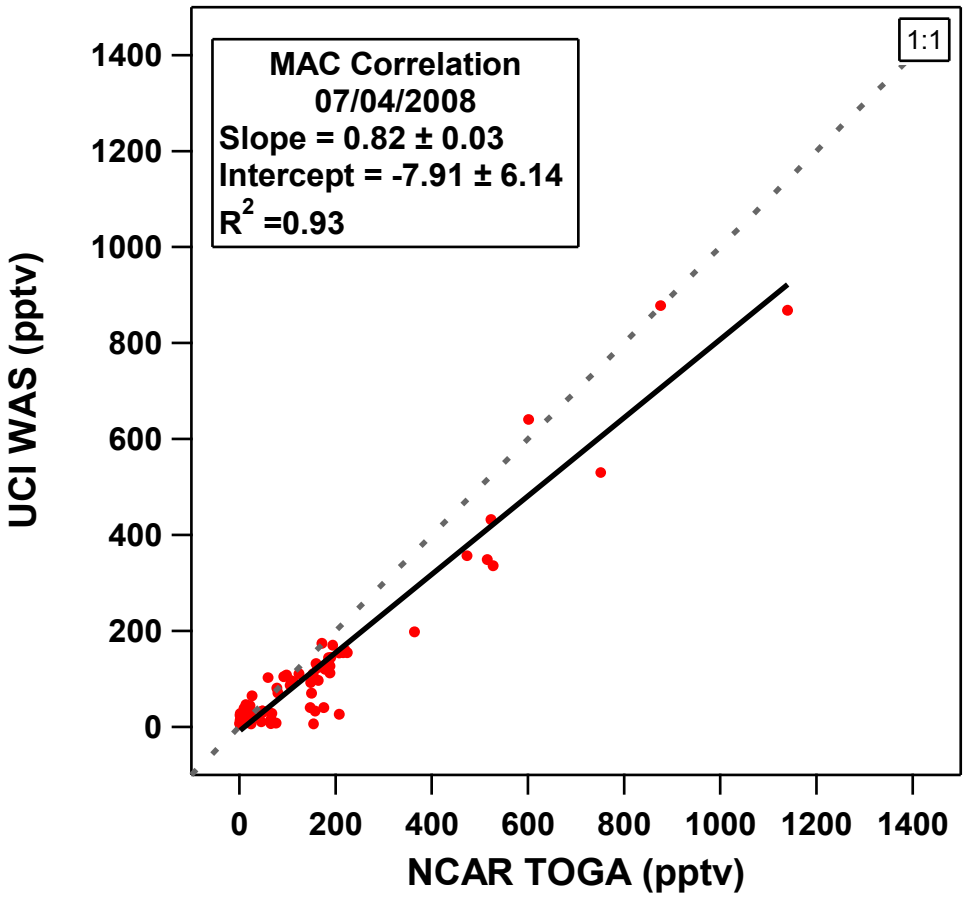

07/04/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
isopentane (pptv)
Altitude (km)
GMT
200
150
100
50
0
14
12
10
8
6
4
2
0
18:00
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00

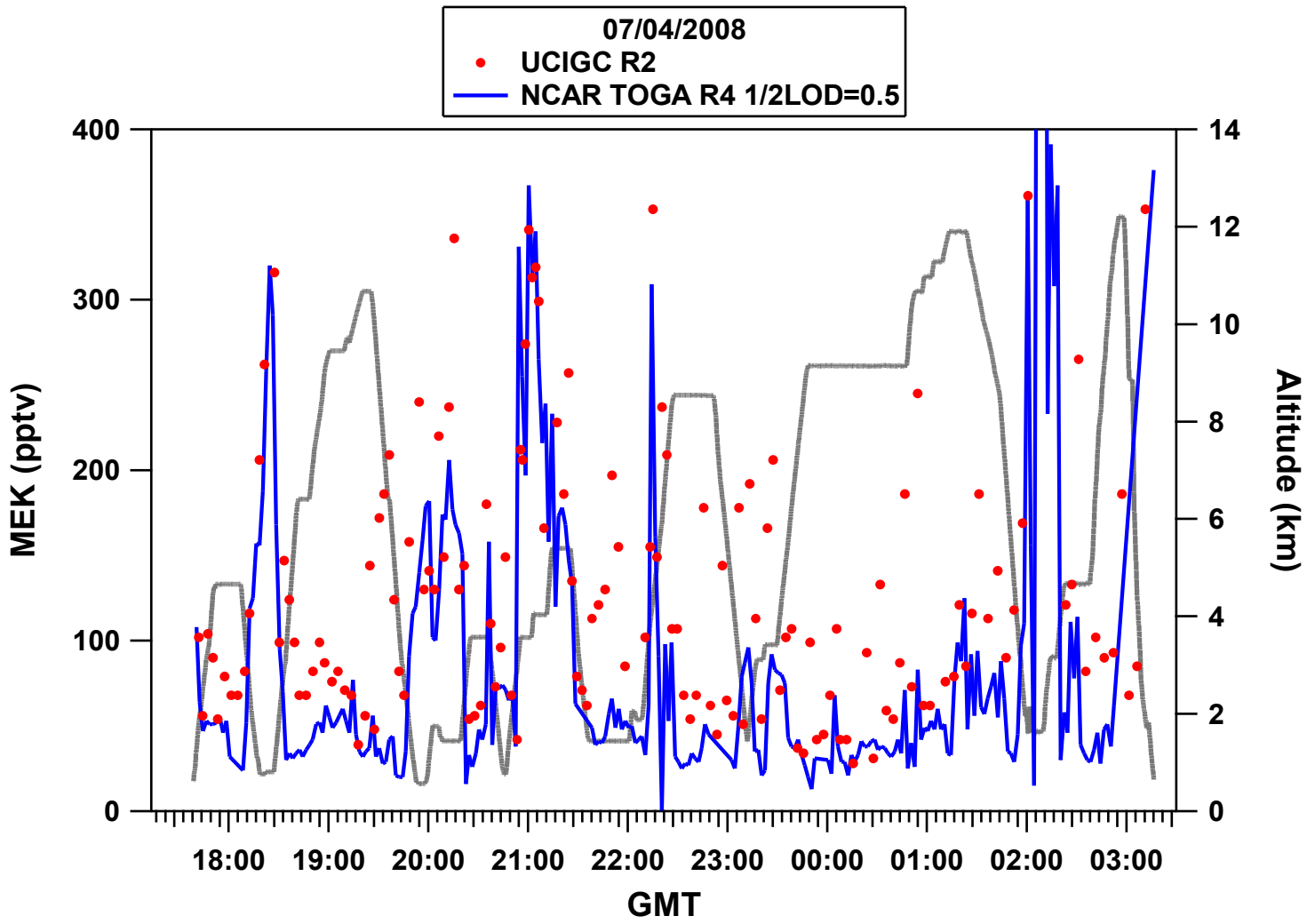

isoPentane Correlation
07/04/2008
Slope = 1.08 ± 0.04
Intercept = 5.18 ± 1.34
R2 =0.92
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
0
50
100
150
200

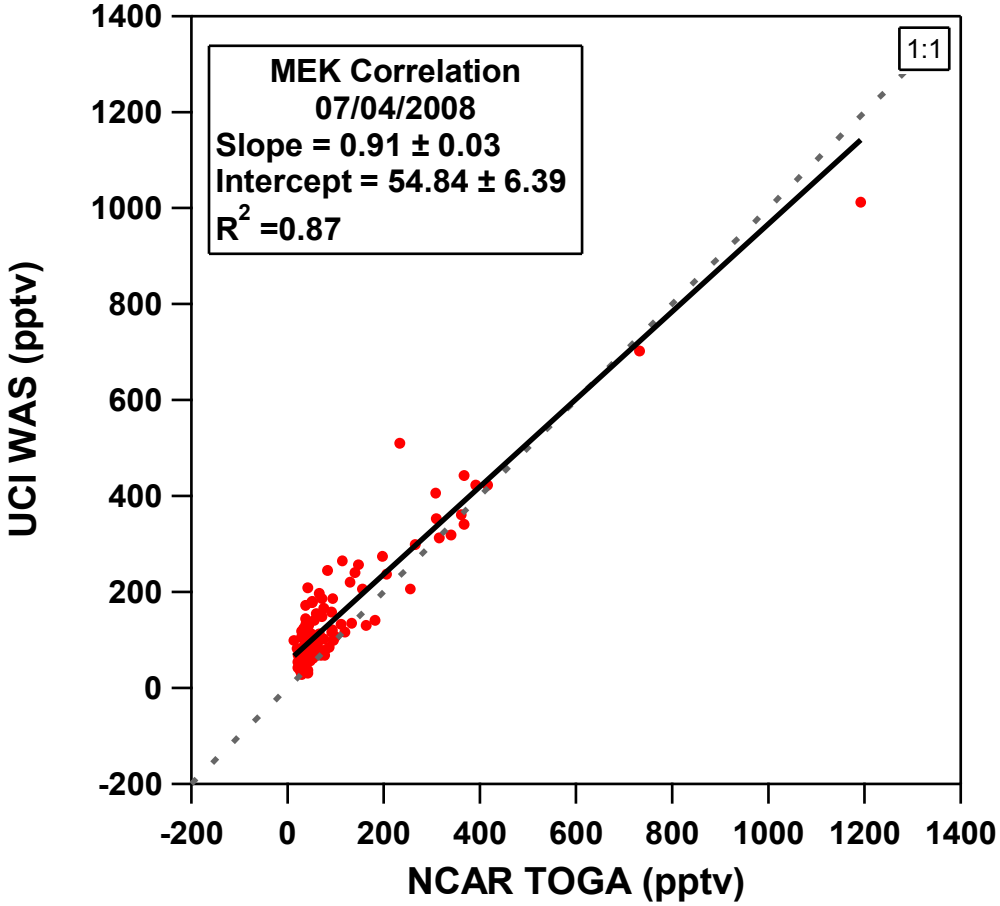

07/04/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.25
Isoprene (pptv)
Altitude (km)
GMT
4000
3000
2000
1000
0
14
12
10
8
6
4
2
0
18:00
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00

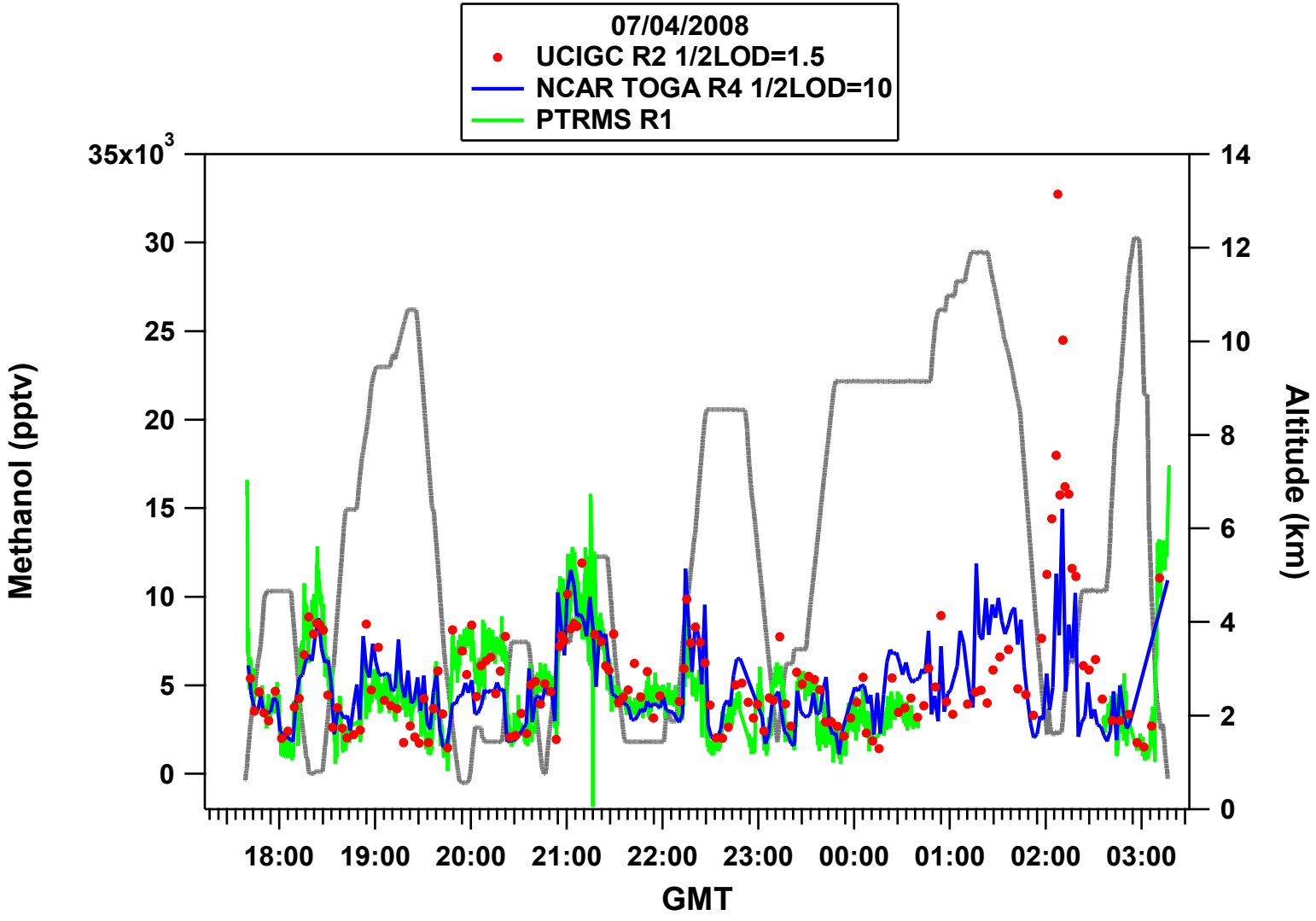

2000
1500
1000
500
0
UCI WAS (pptv)
0
500
1000
1500
2000
NCAR TOGA (pptv)
1:1
Isoprene Correlation
07/04/2008
Slope = 0.90 ± 0.04
Intercept = 3.45 ± 22.35
R2 =0.92

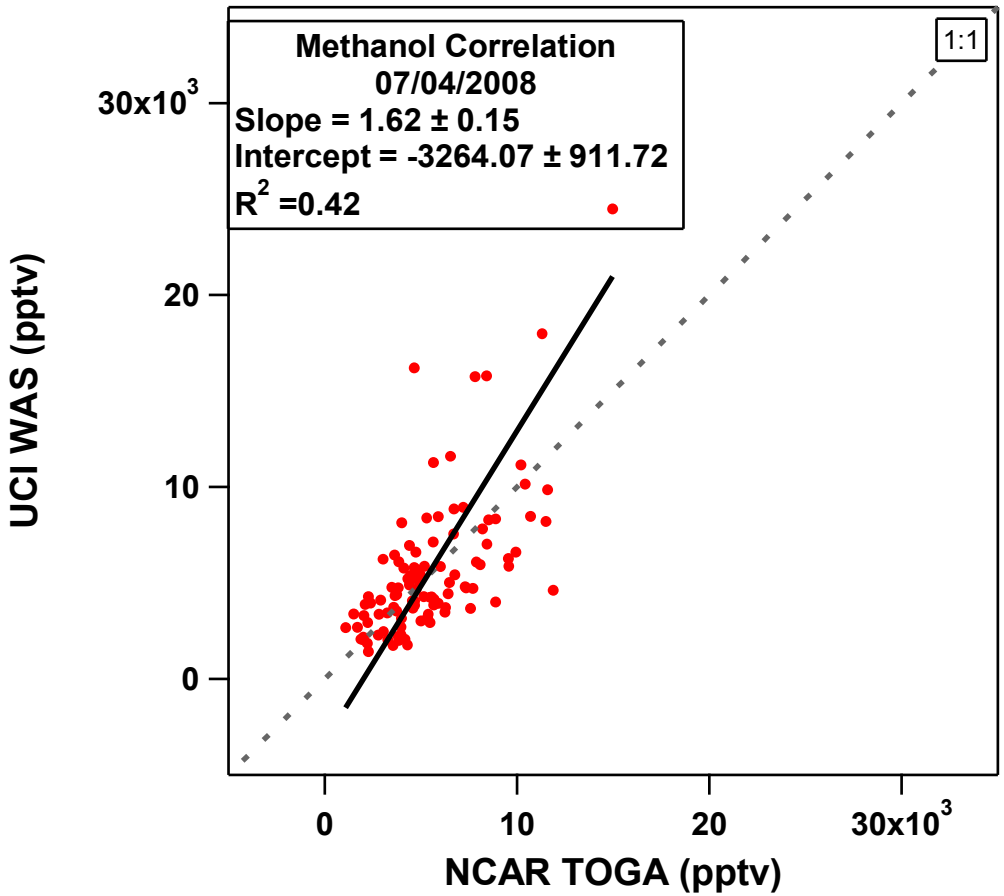

07/04/2008
UCIGC R2 1/2LOD=2.5
NCAR TOGA R4 1/2LOD=0.25
MAC (pptv)
Altitude (km)
GMT
0
200
400
600
800
1000
1200
0
2
4
6
8
10
12
14
18:00
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00

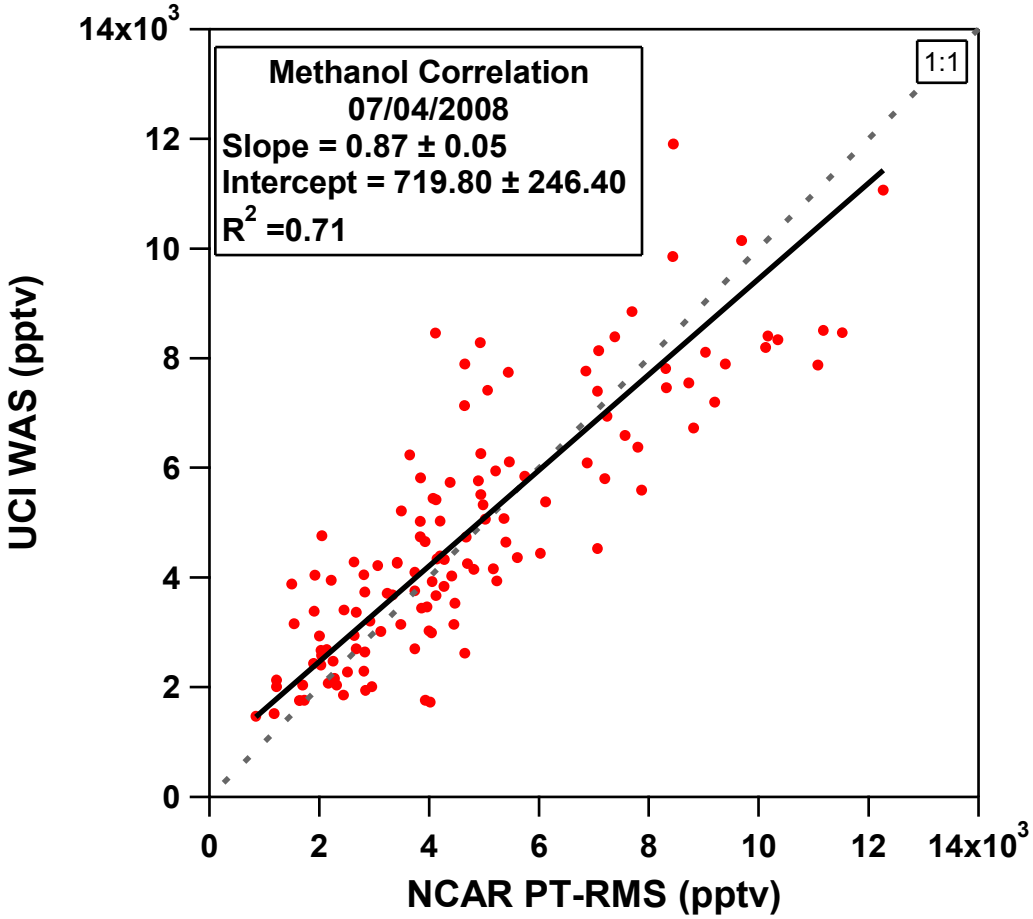

MAC Correlation
07/04/2008
Slope = 0.82 ± 0.03
Intercept = -7.91 ± 6.14
R2 =0.93
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
0
200
400
600
800
1000
1200
1400

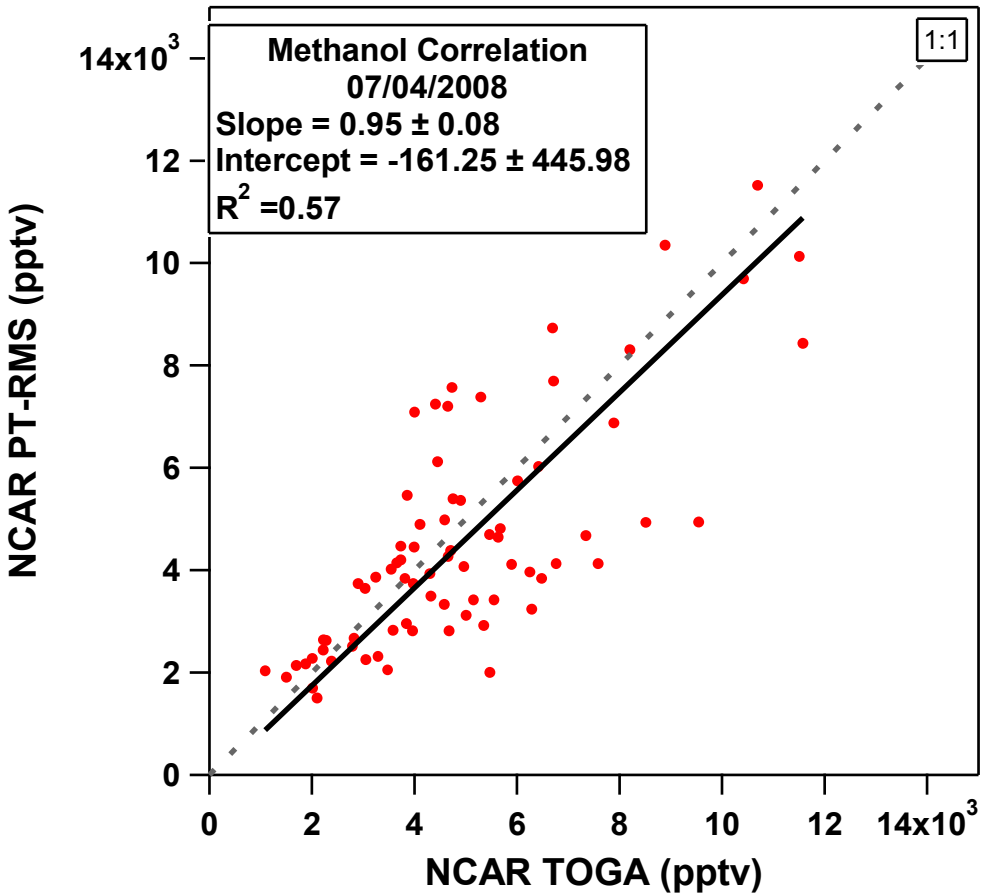

07/04/2008
UCIGC R2
NCAR TOGA R4 1/2LOD=0.5
MEK (pptv)
Altitude (km)
GMT
400
300
200
100
0
14
12
10
8
6
4
2
0
18:00
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00

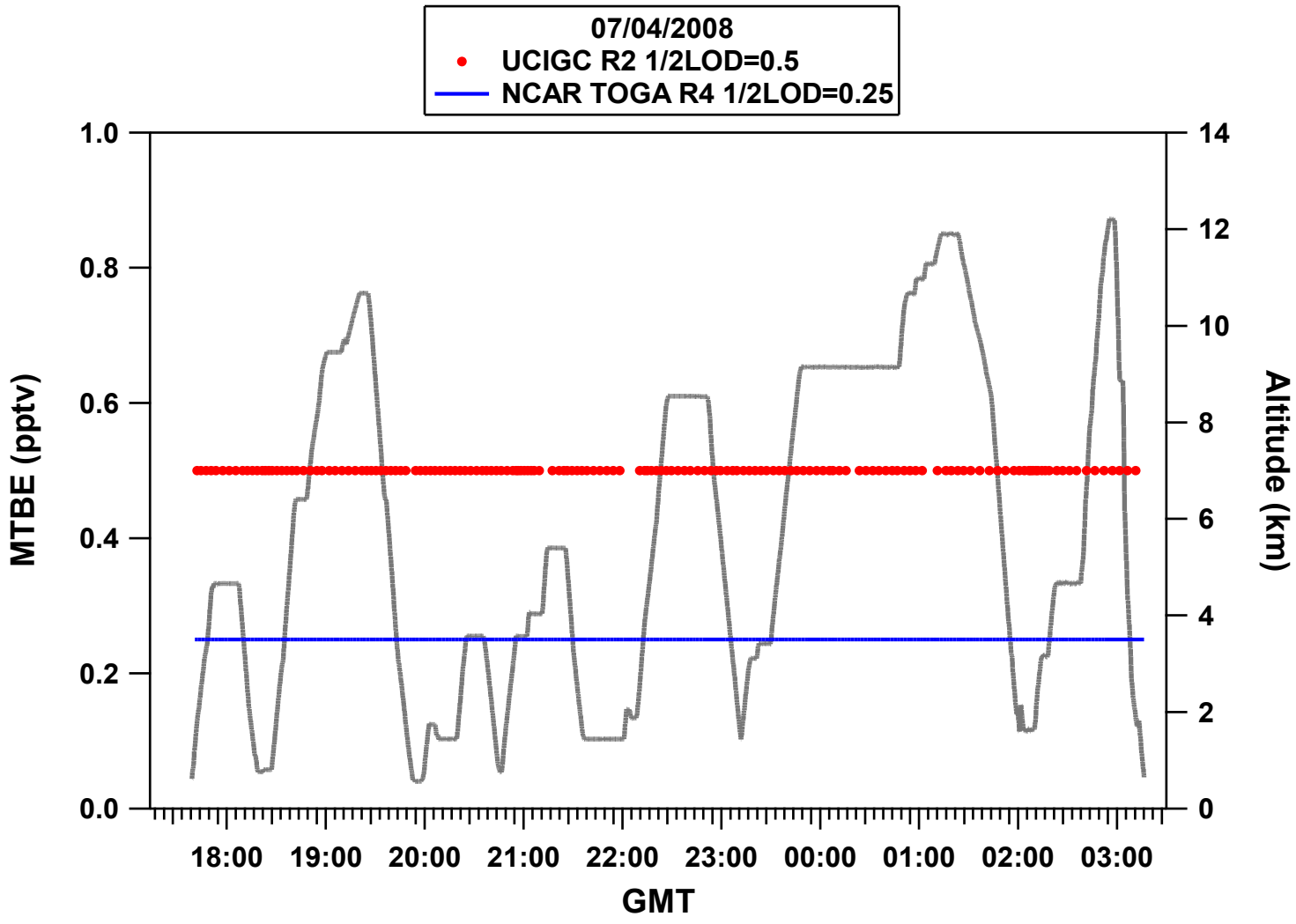

MEK Correlation
07/04/2008
Slope = 0.91 ± 0.03
Intercept = 54.84 ± 6.39
R2 =0.87
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
1400
1200
1000
800
600
400
200
0
-200
-200
0
200
400
600
800
1000
1200
1400

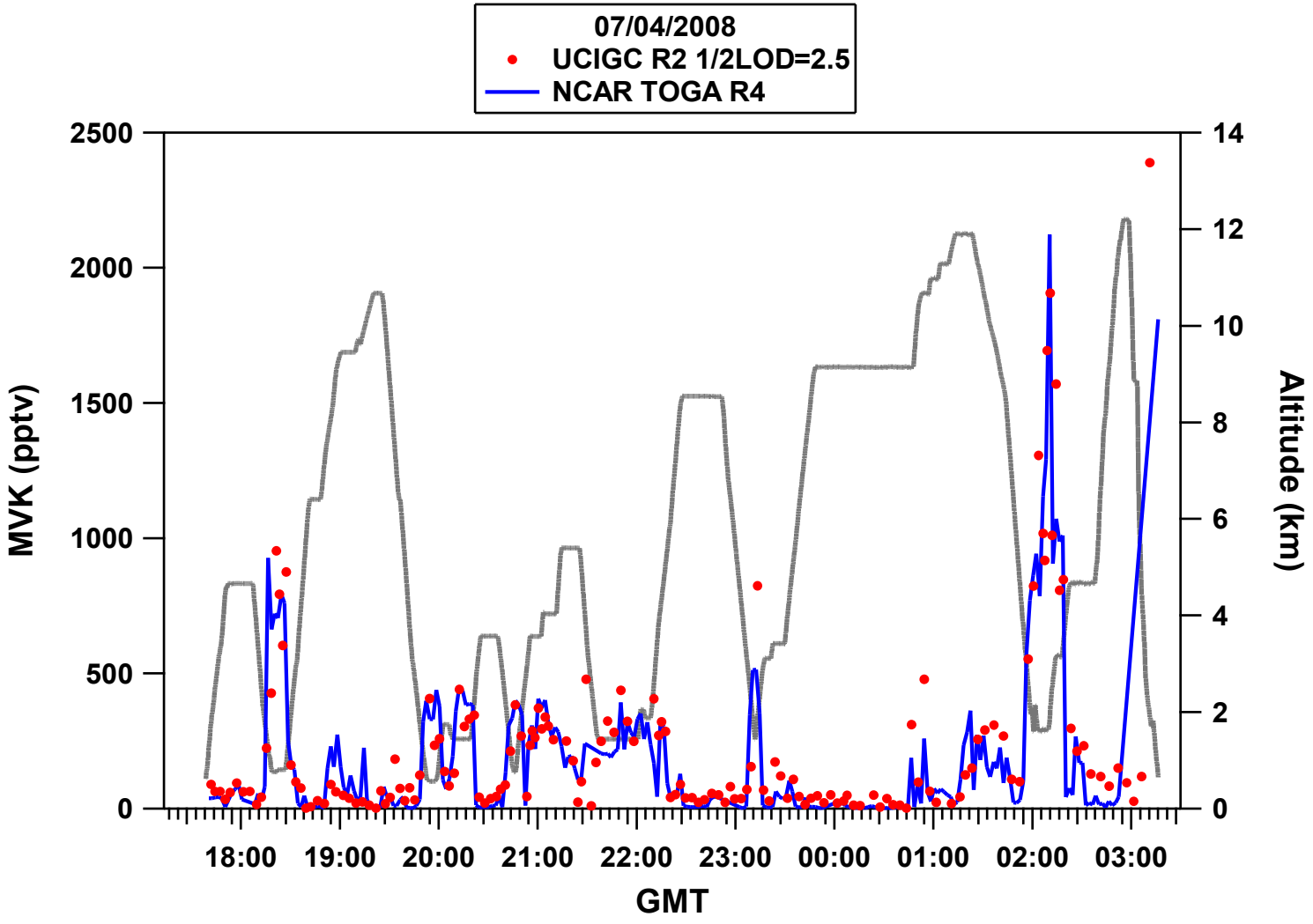

07/04/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=10
PTRMS R1
35x10^3
30
25
20
15
10
5
0
Methanol (pptv)
14
12
10
8
6
4
2
0
Altitude (km)
18:00
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00
GMT

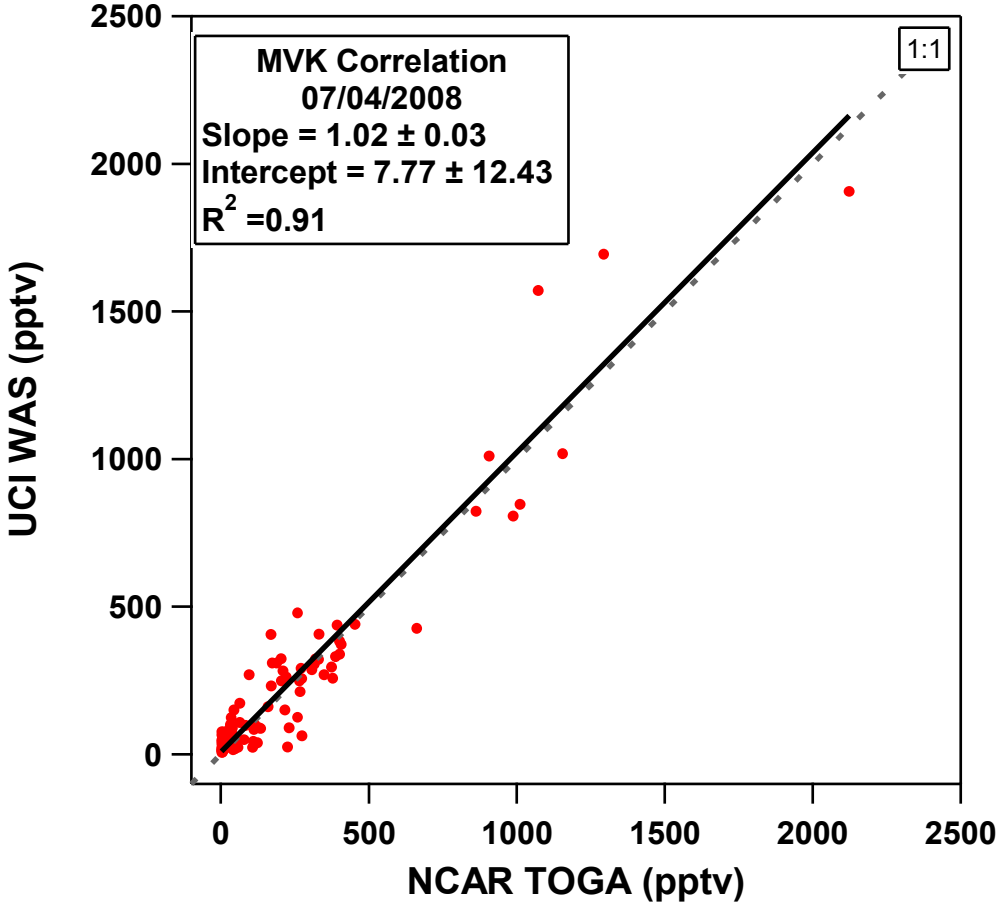

Methanol Correlation
07/04/2008
Slope = 1.62 ± 0.15
Intercept = -3264.07 ± 911.72
R2 =0.42
1:1
30x10^3
20
10
0
UCI WAS (pptv)
0
10
20
30x10^3
NCAR TOGA (pptv)

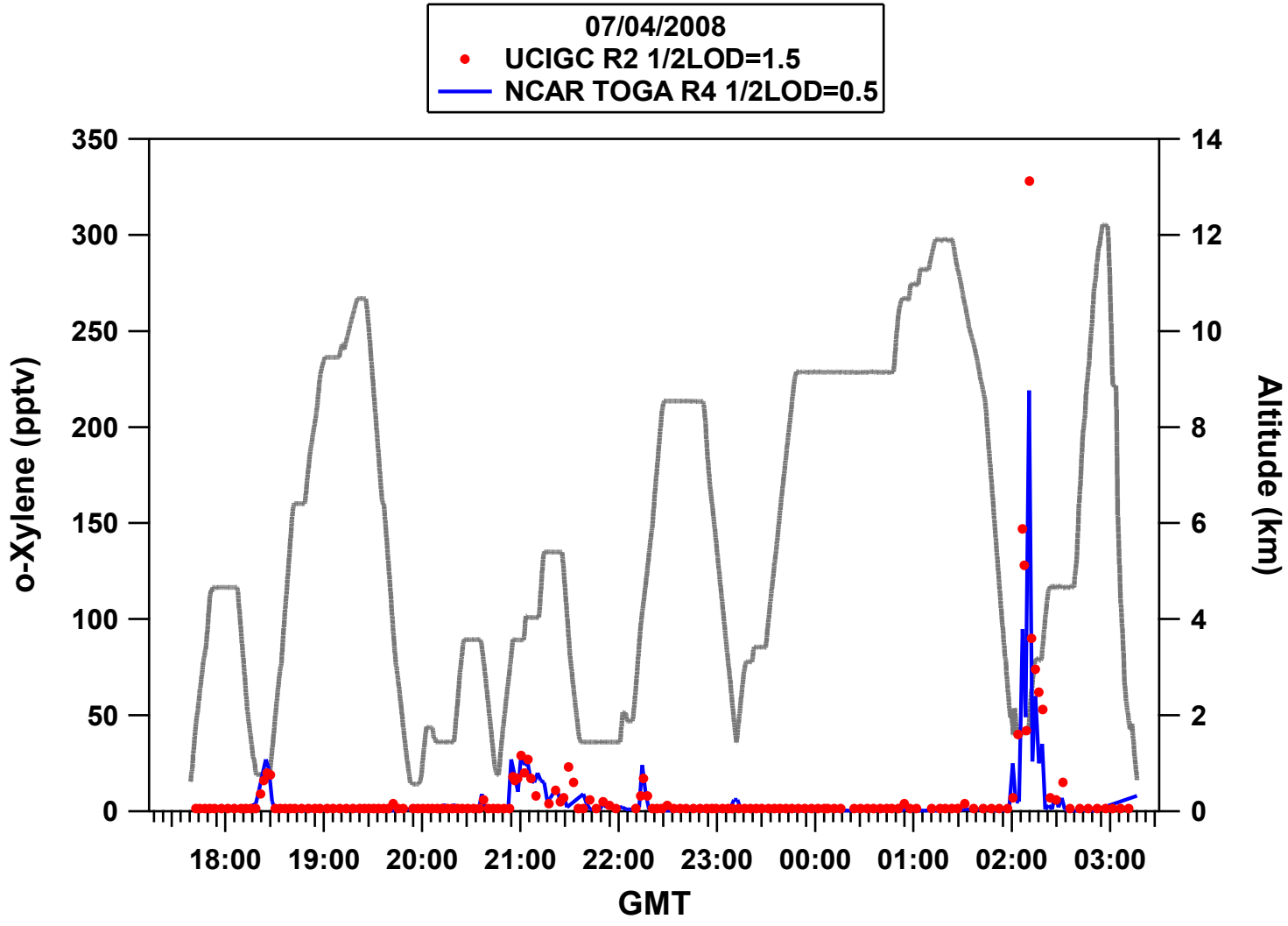

Methanol Correlation
07/04/2008
Slope = 0.87 ± 0.05
Intercept = 719.80 ± 246.40
R2 =0.71
1:1
UCI WAS (pptv)
NCAR PT-RMS (pptv)
0
2
4
6
8
10
12
14x10^3

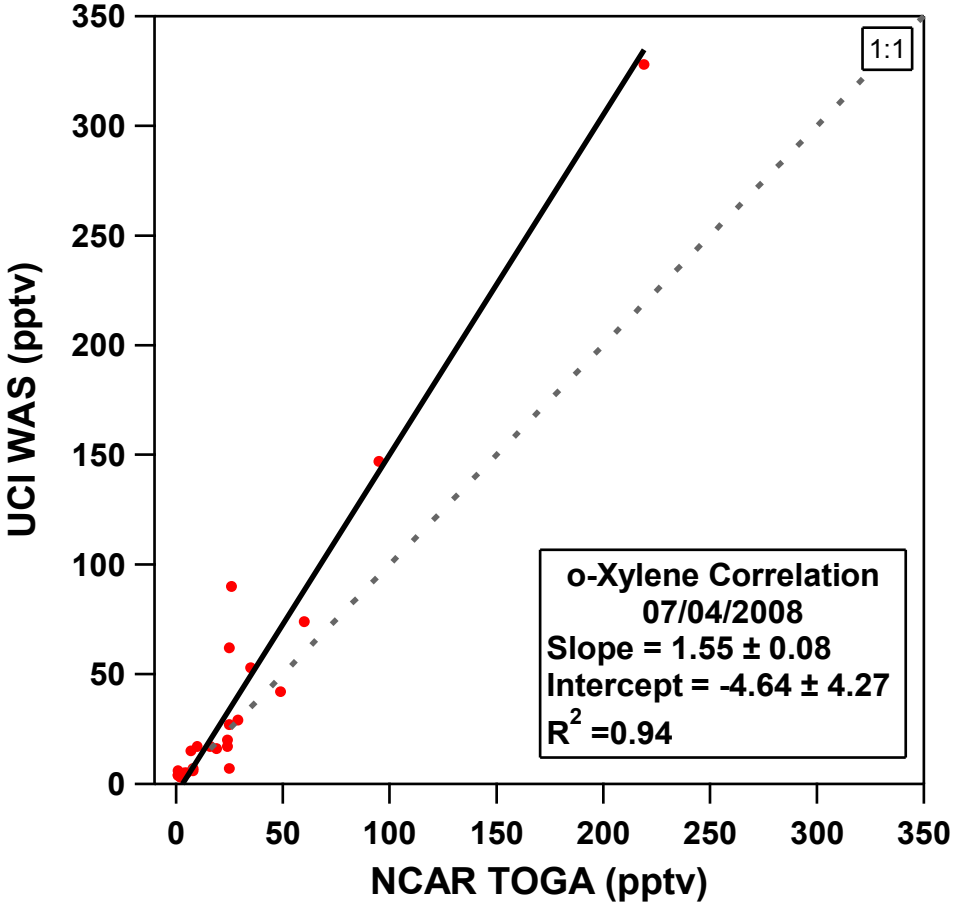

Methanol Correlation
07/04/2008
Slope = 0.95 ± 0.08
Intercept = -161.25 ± 445.98
R2 =0.57
1:1
NCAR PT-RMS (pptv)
NCAR TOGA (pptv)
0
2
4
6
8
10
12
14x10^3

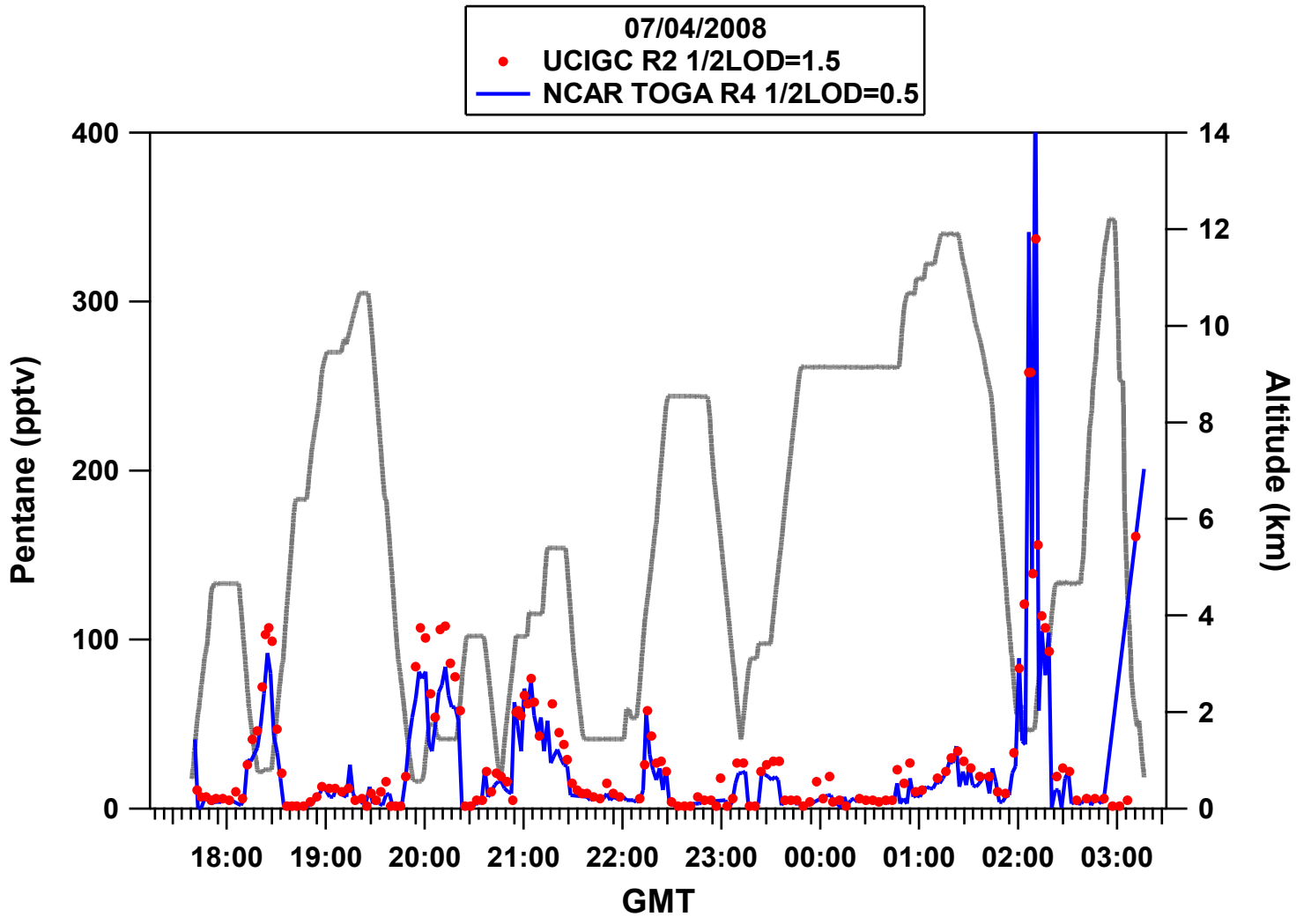

07/04/2008
UCIGC R2 1/2LOD=0.5
NCAR TOGA R4 1/2LOD=0.25
MTBE (pptv)
1.0
0.8
0.6
0.4
0.2
0.0
Altitude (km)
14
12
10
8
6
4
2
0
18:00
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00
GMT

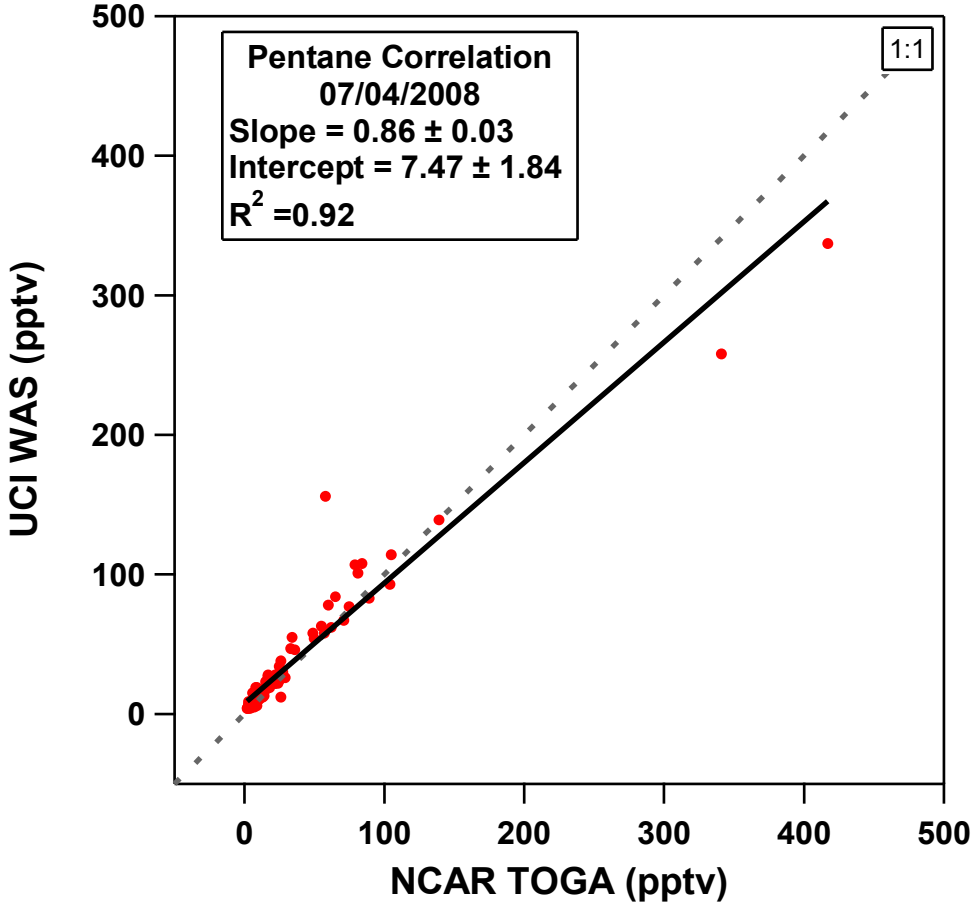

07/04/2008
UCIGC R2 1/2LOD=2.5
NCAR TOGA R4
MVK (pptv)
Altitude (km)
GMT
2500
2000
1500
1000
500
0
14
12
10
8
6
4
2
0
18:00
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00

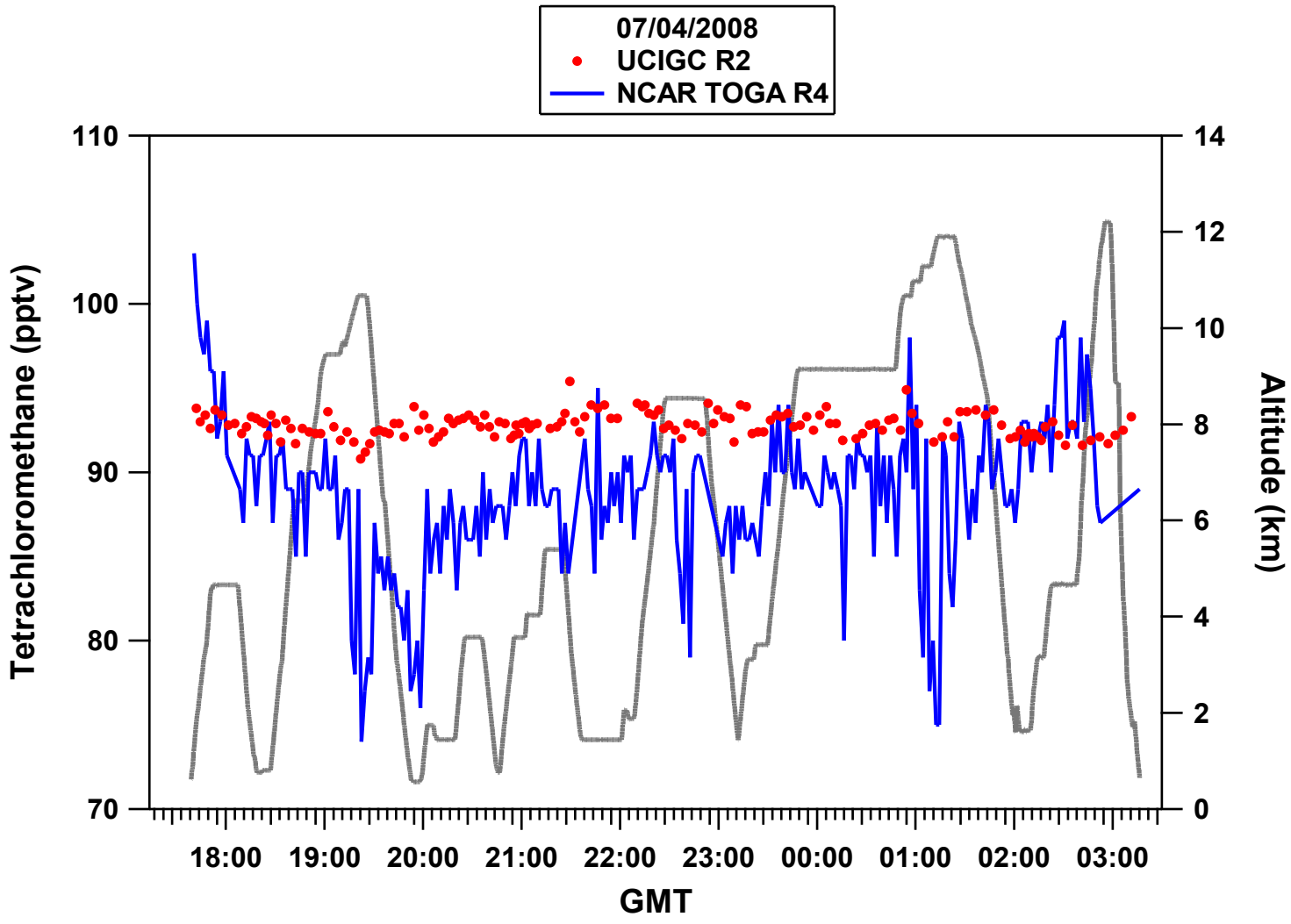

MVK Correlation
07/04/2008
Slope = 1.02 ± 0.03
Intercept = 7.77 ± 12.43
R2 =0.91
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
0
500
1000
1500
2000
2500

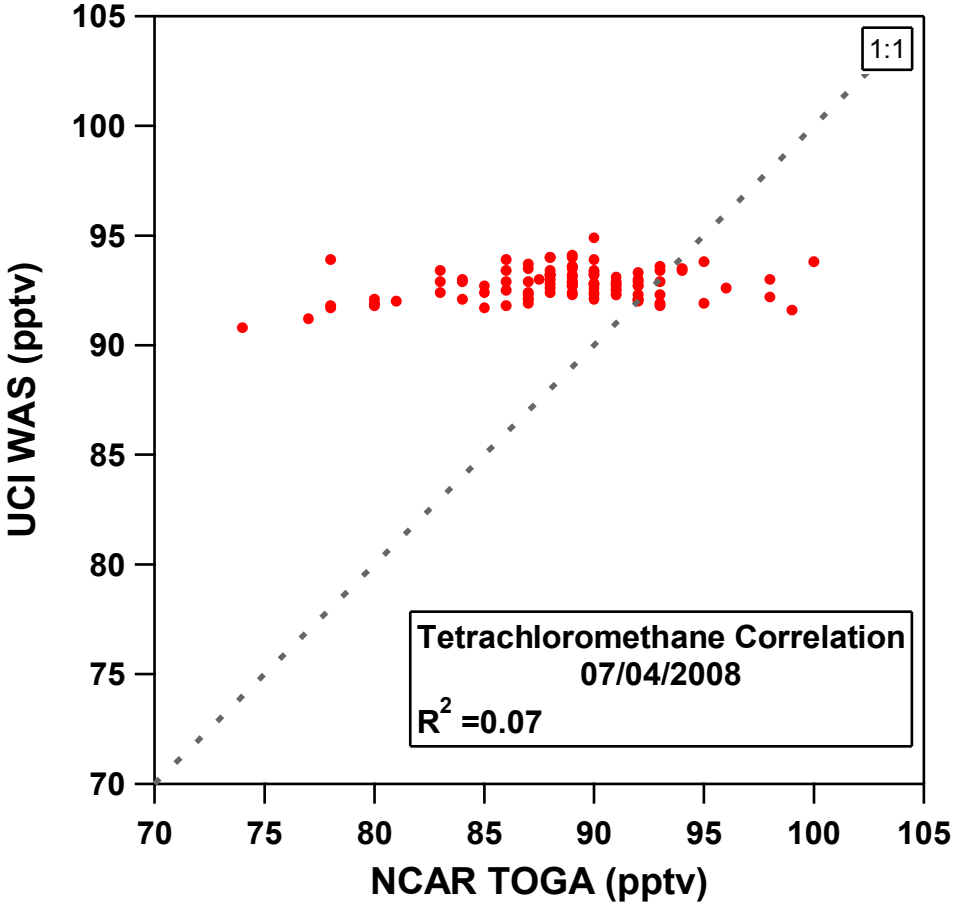

07/04/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
o-Xylene (pptv)
Altitude (km)
GMT
350
300
250
200
150
100
50
0
14
12
10
8
6
4
2
0
18:00
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00

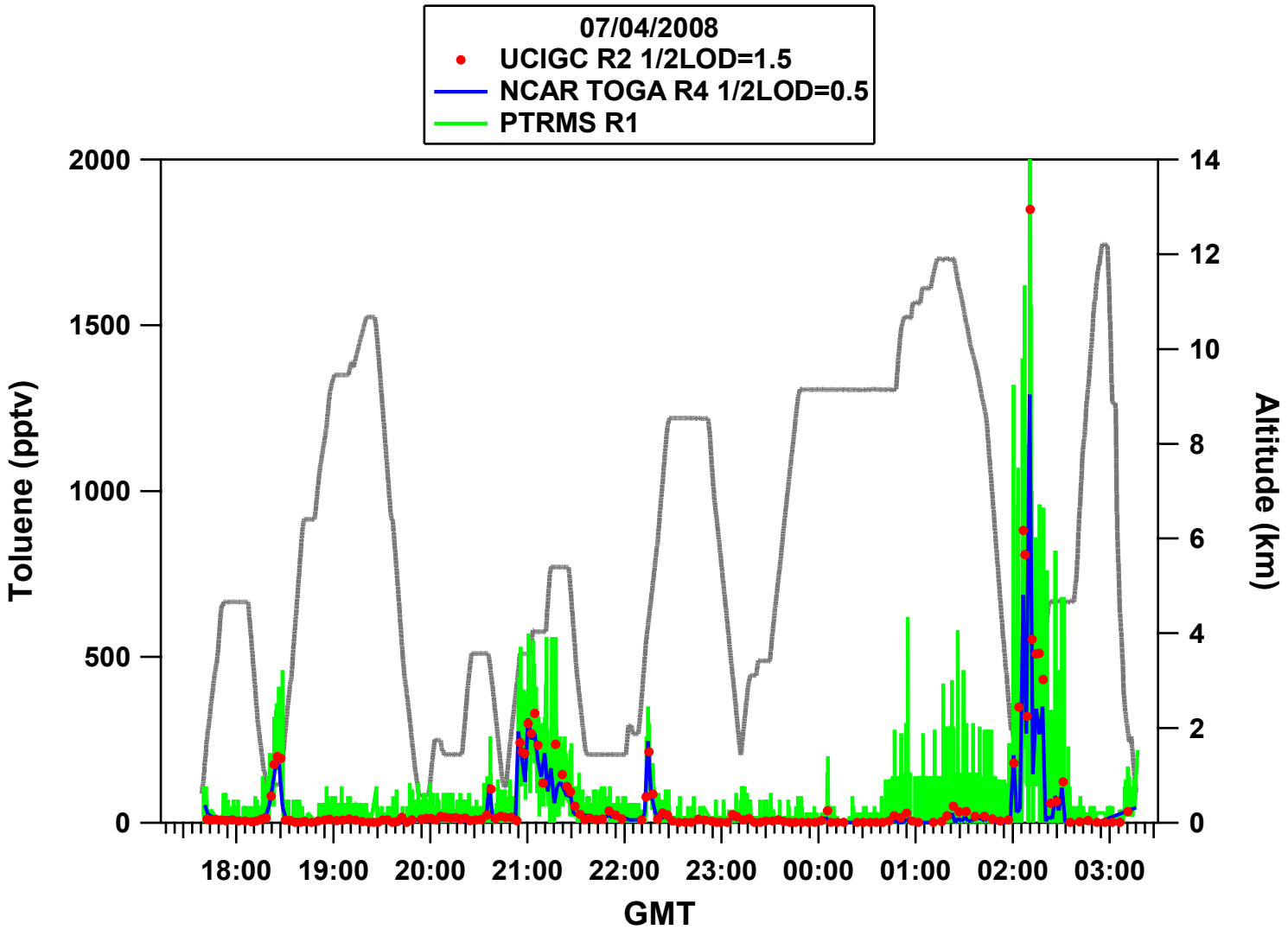

1:1
o-Xylene Correlation
07/04/2008
Slope = 1.55 ± 0.08
Intercept = -4.64 ± 4.27
R2 =0.94
UCI WAS (pptv)
NCAR TOGA (pptv)
0
50
100
150
200
250
300
350

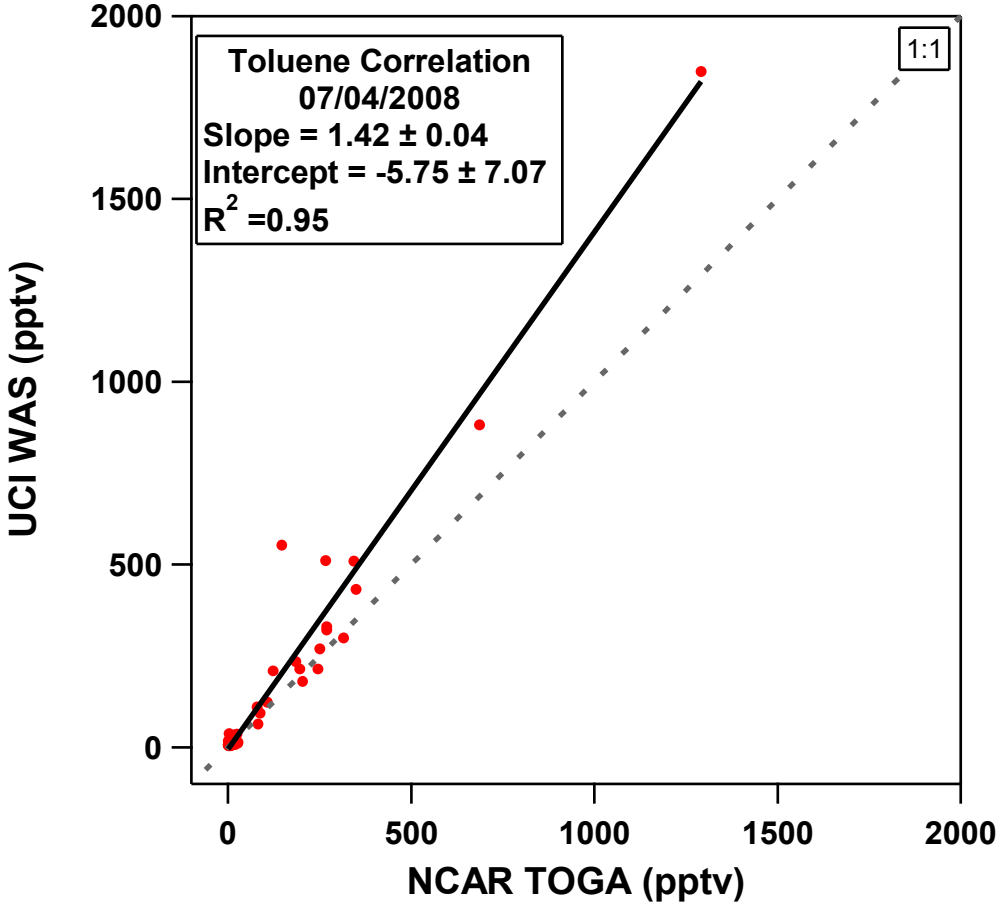

07/04/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
Pentane (pptv)
Altitude (km)
GMT
400
300
200
100
0
14
12
10
8
6
4
2
0
18:00
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00

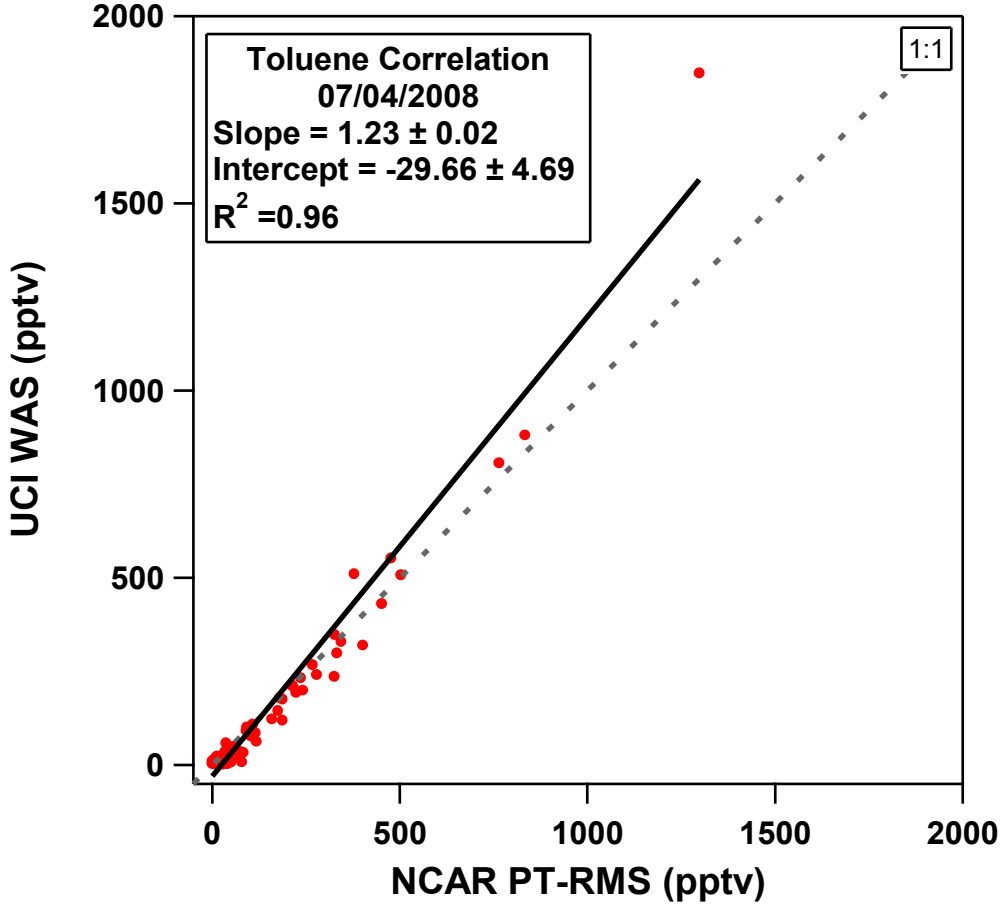

Pentane Correlation
07/04/2008
Slope = 0.86 ± 0.03
Intercept = 7.47 ± 1.84
R2 =0.92
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
500
400
300
200
100
0
0
100
200
300
400
500

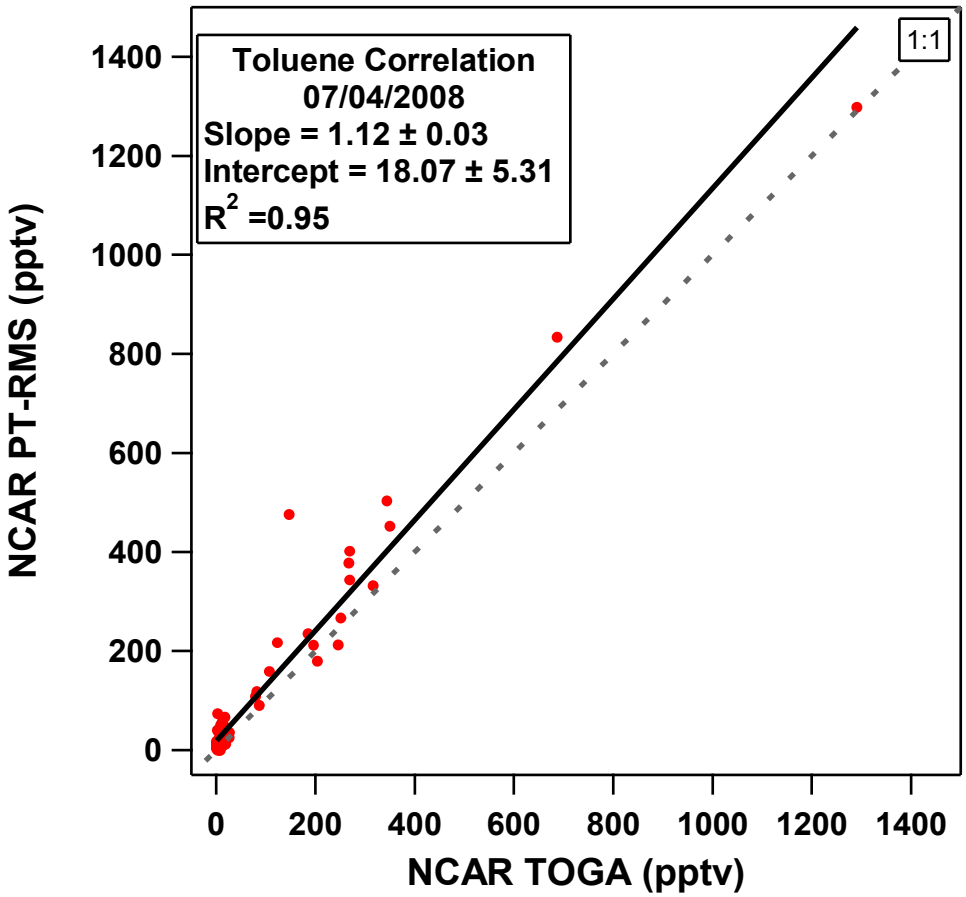

07/04/2008
UCIGC R2
NCAR TOGA R4
Tetrachloromethane (pptv)
Altitude (km)
GMT
110
100
90
80
70
14
12
10
8
6
4
2
0
18:00
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00


1:1
Tetrachloromethane Correlation
07/04/2008
R2 =0.07
UCI WAS (pptv)
NCAR TOGA (pptv)
105
100
95
90
85
80
75
70
70
75
80
85
90
95
100
105


07/04/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
PTRMS R1
Toluene (pptv)
Altitude (km)
GMT
2000
1500
1000
500
0
14
12
10
8
6
4
2
0
18:00
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00


Toluene Correlation
07/04/2008
Slope = 1.42 ± 0.04
Intercept = -5.75 ± 7.07
R2 =0.95
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
0
500
1000
1500
2000


Toluene Correlation
07/04/2008
Slope = 1.23 ± 0.02
Intercept = -29.66 ± 4.69
R2 =0.96
1:1
UCI WAS (pptv)
NCAR PT-RMS (pptv)
0
500
1000
1500
2000


Toluene Correlation
07/04/2008
Slope = 1.12 ± 0.03
Intercept = 18.07 ± 5.31
R2 =0.95
1:1
NCAR PT-RMS (pptv)
NCAR TOGA (pptv)
0
200
400
600
800
1000
1200
1400