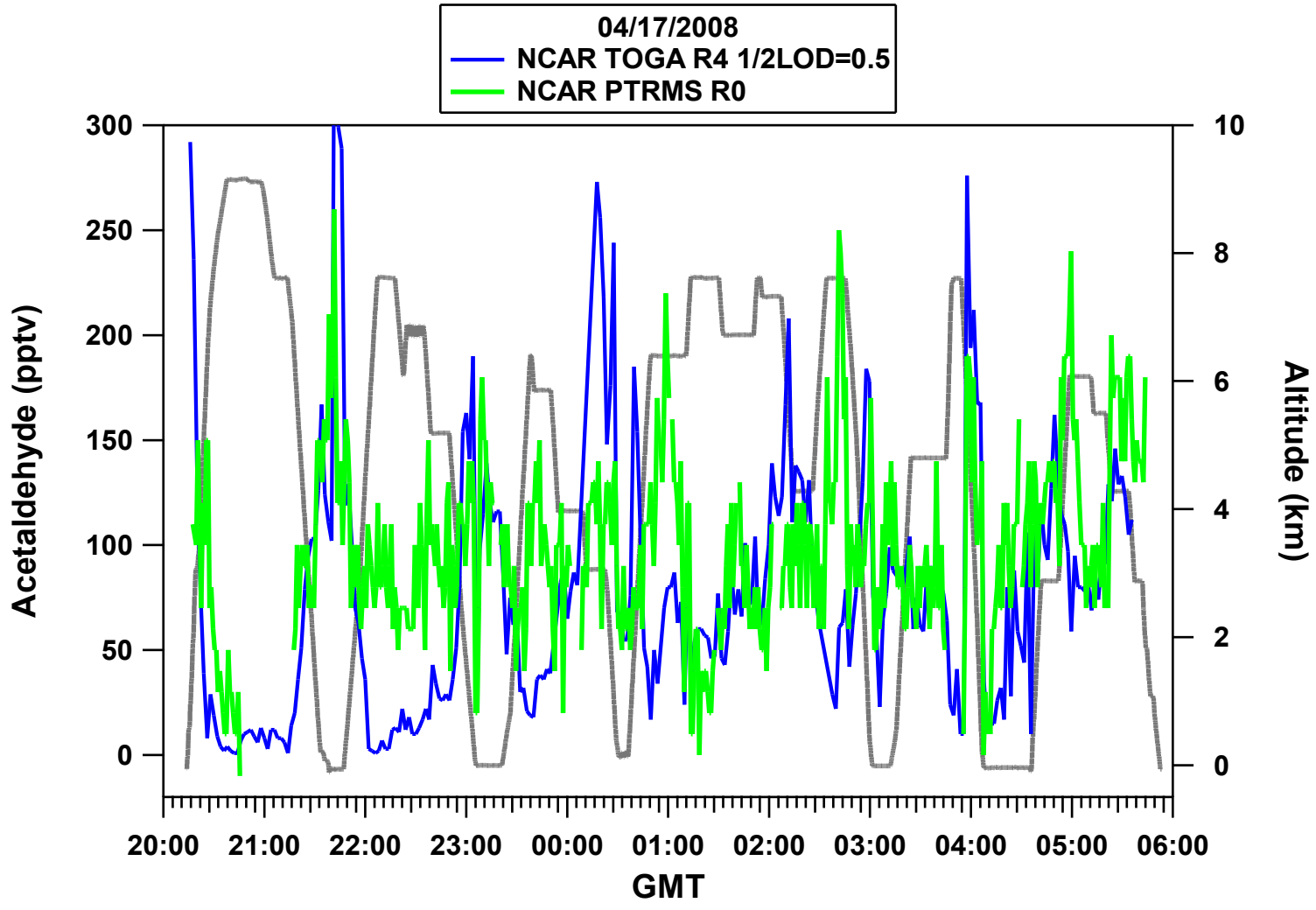
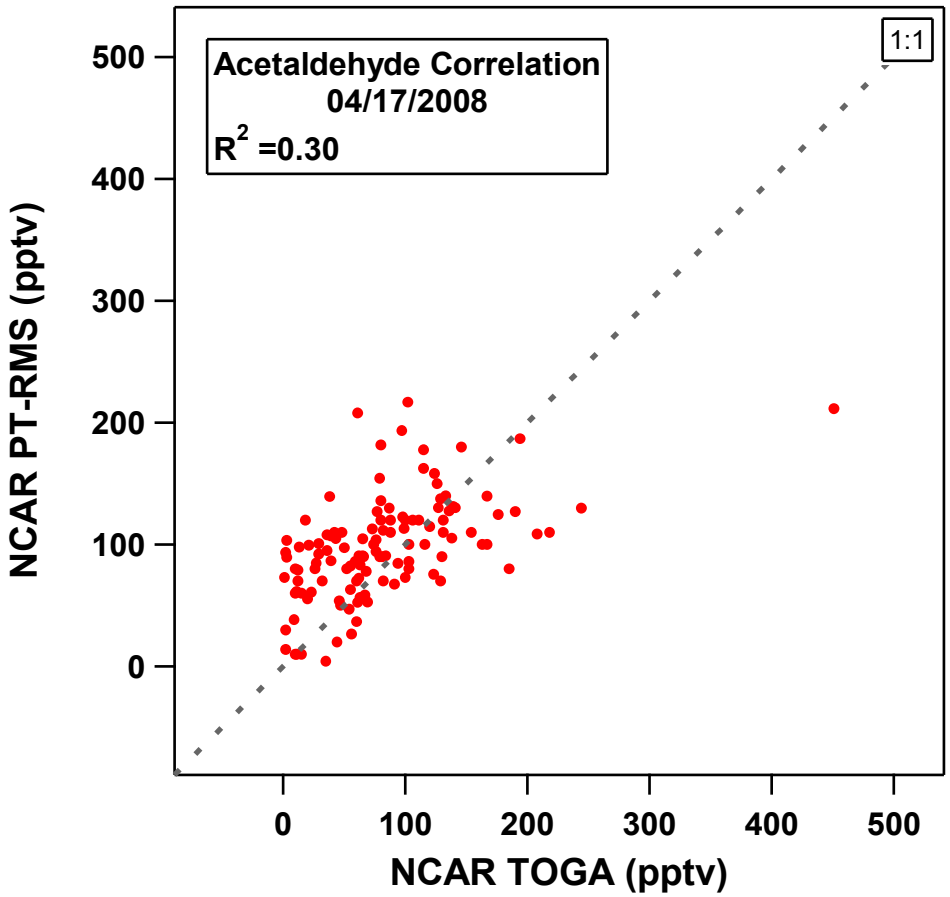
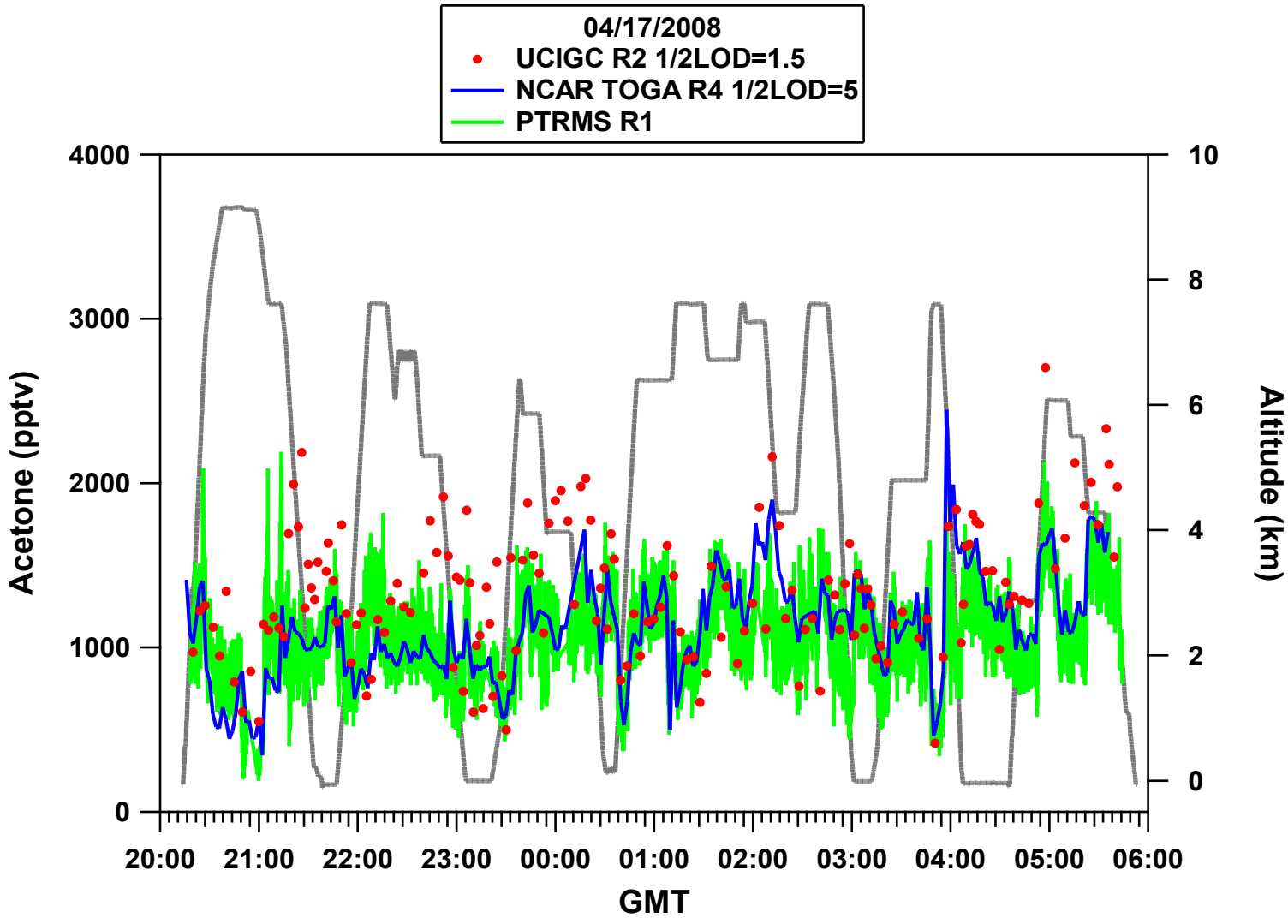
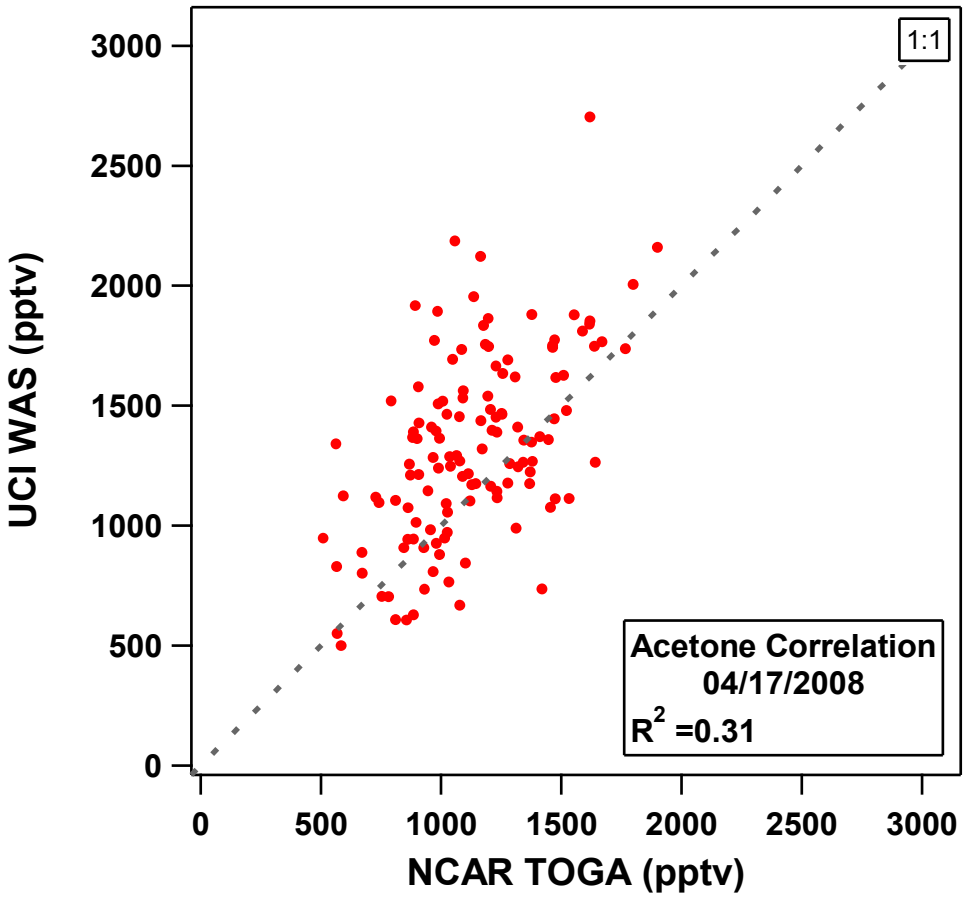
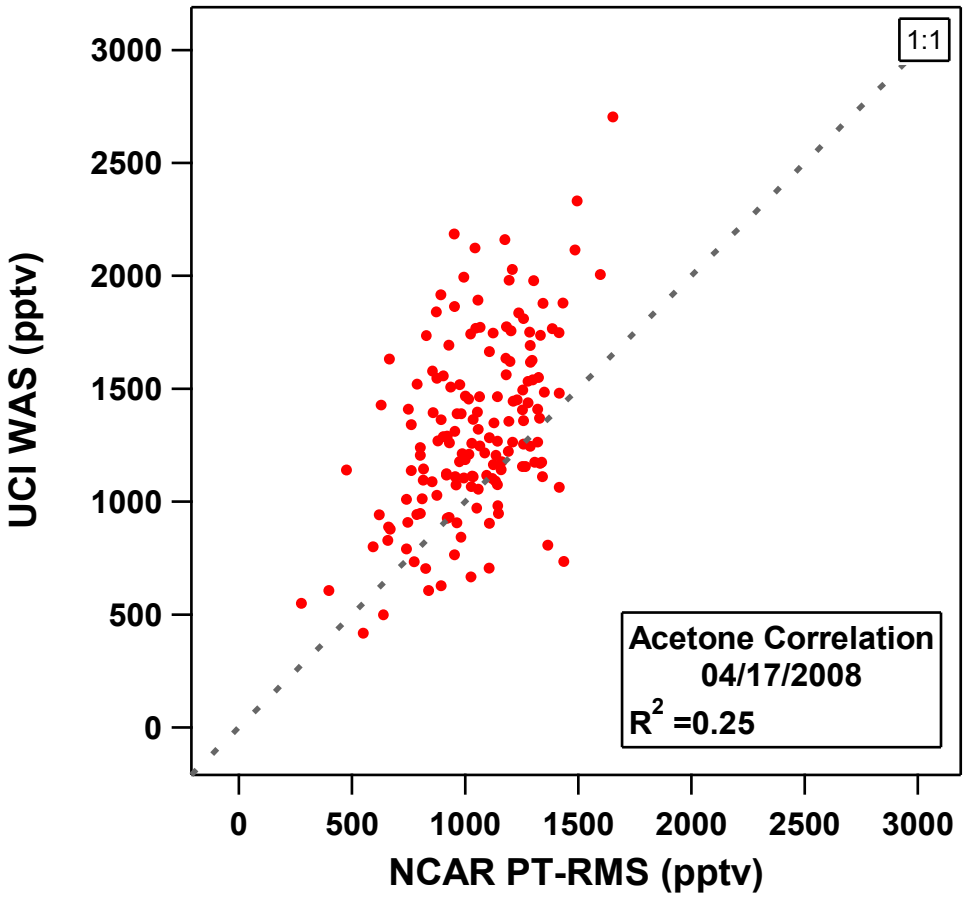
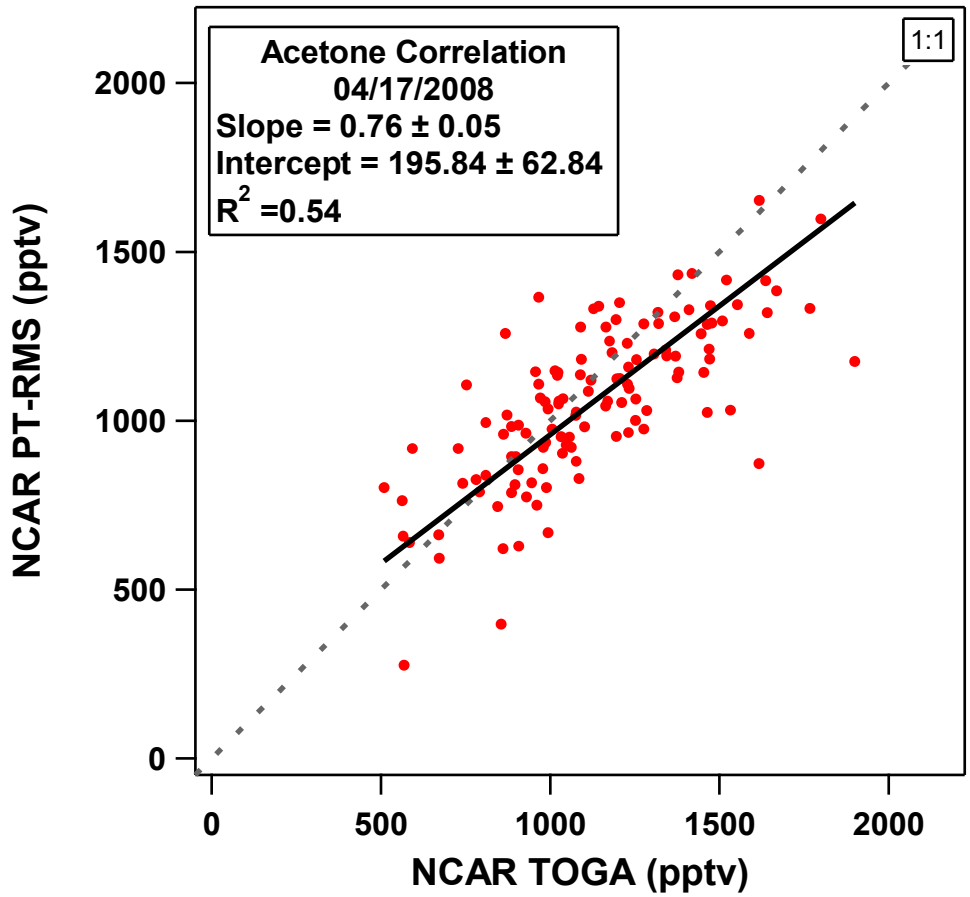

04/17/2008
NCAR TOGA R4 1/2LOD=0.5
NCAR PTRMS R0
Acetaldehyde (pptv)
Altitude (km)
GMT
300
250
200
150
100
50
0
10
8
6
4
2
0
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00
04:00
05:00
06:00

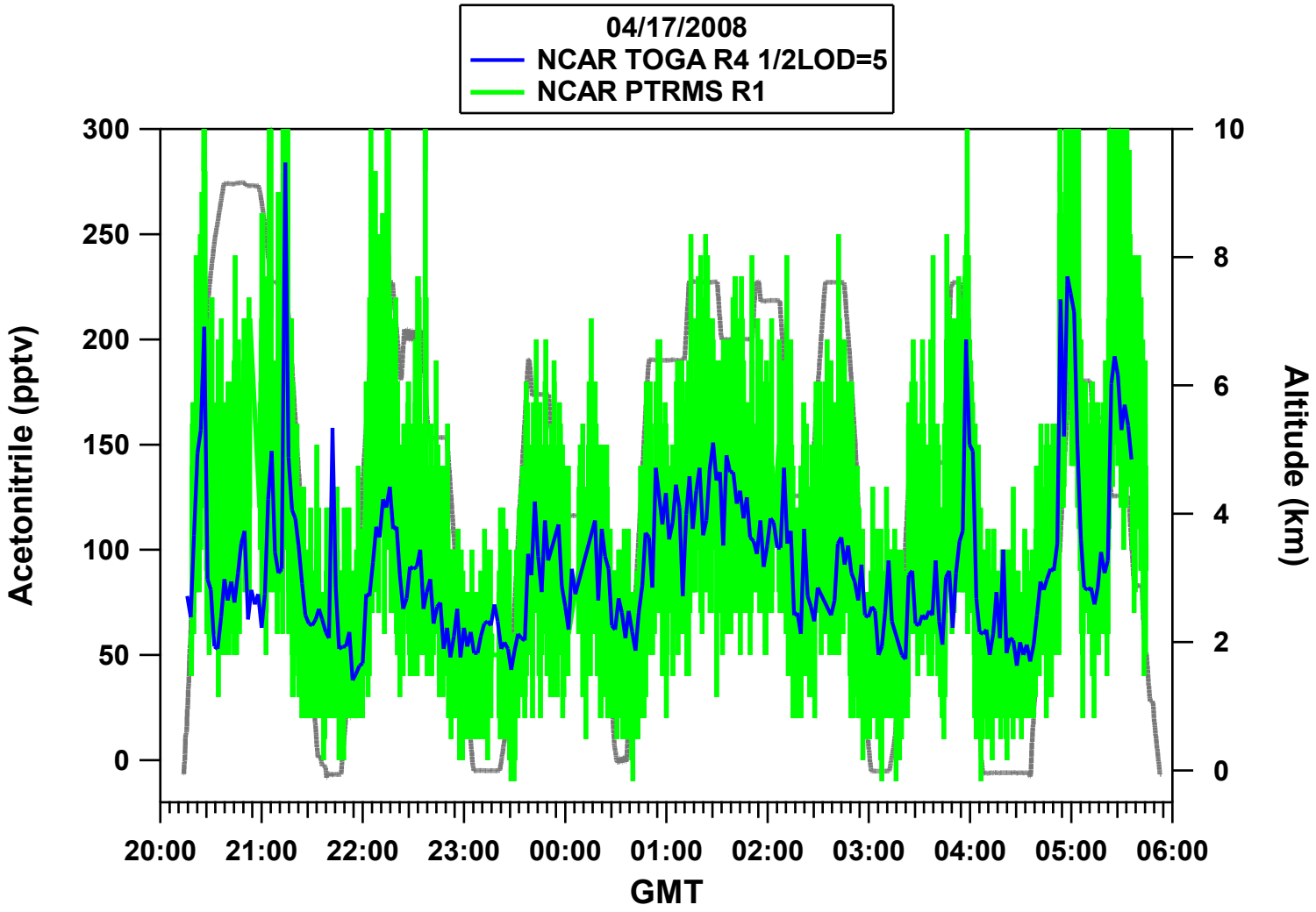

Acetaldehyde Correlation
04/17/2008
R2 =0.30
1:1
NCAR PT-RMS (pptv)
NCAR TOGA (pptv)
0
100
200
300
400
500

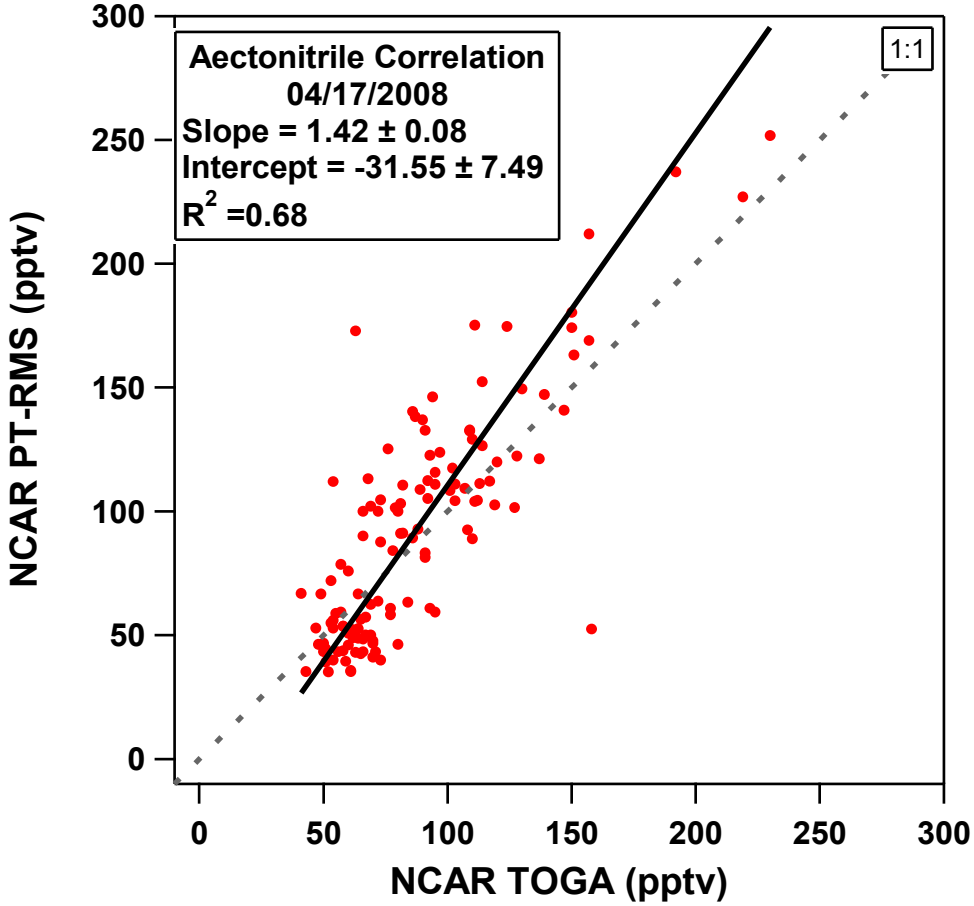

04/17/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=5
PTRMS R1
Acetone (pptv)
Altitude (km)
GMT
4000
3000
2000
1000
0
10
8
6
4
2
0
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00
04:00
05:00
06:00

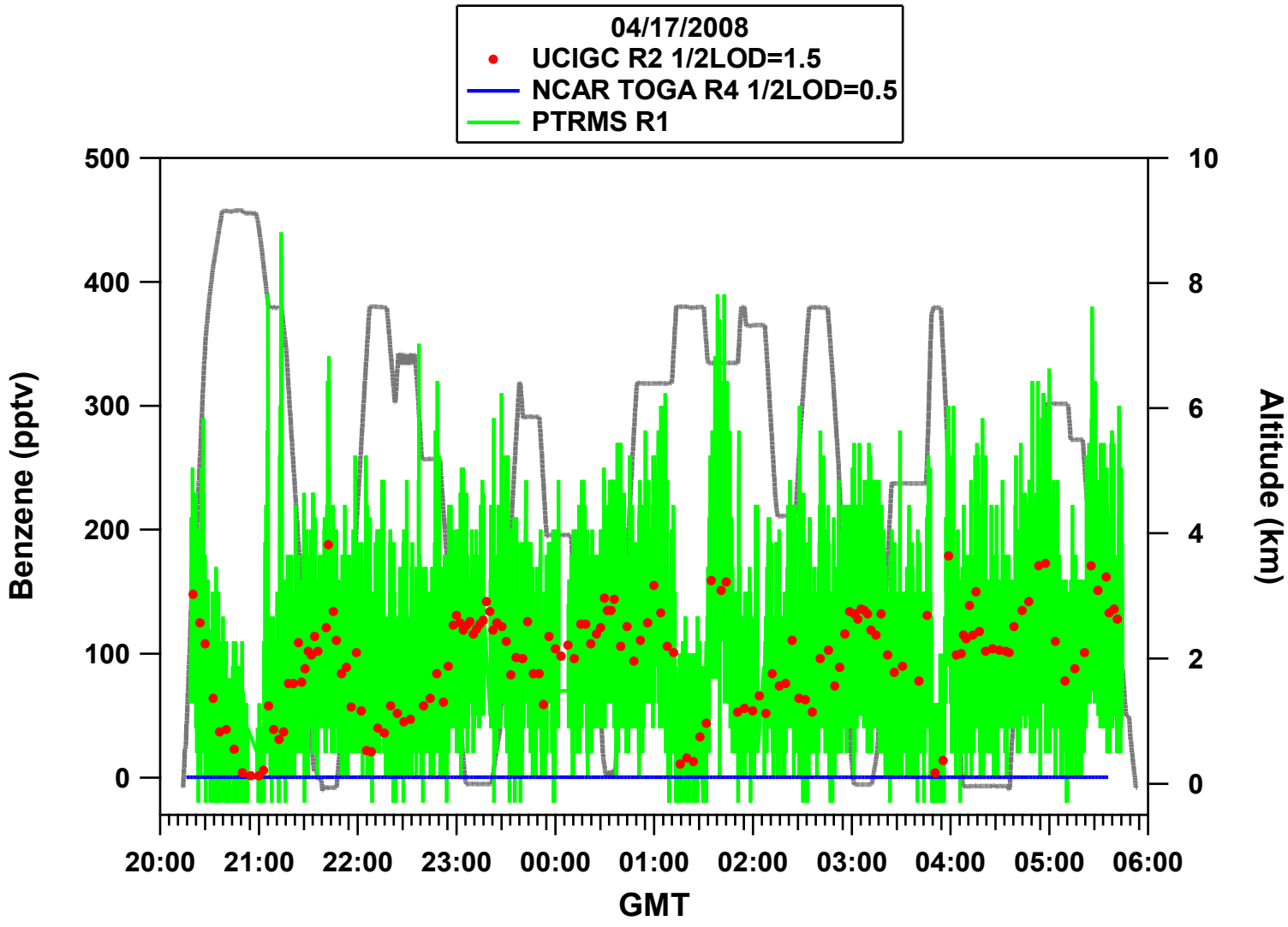

1:1
Acetone Correlation
04/17/2008
R2 =0.31
UCI WAS (pptv)
NCAR TOGA (pptv)
0
500
1000
1500
2000
2500
3000

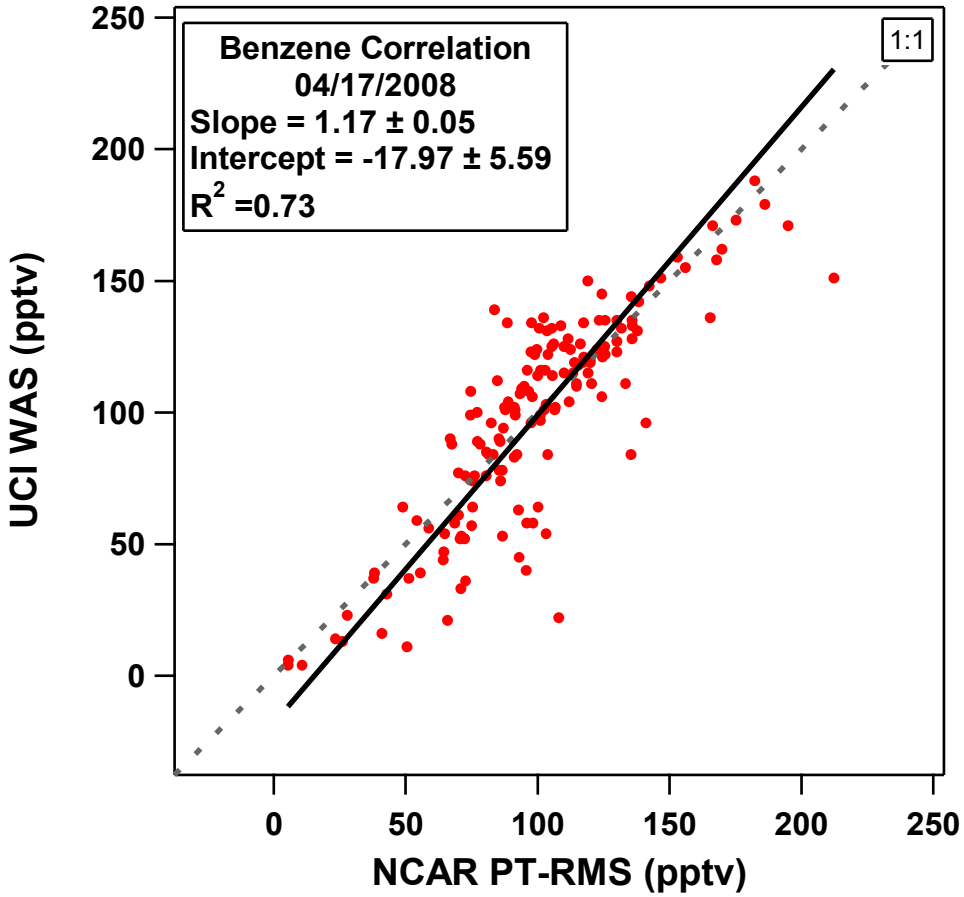

1:1
Acetone Correlation
04/17/2008
R2 =0.25
UCI WAS (pptv)
NCAR PT-RMS (pptv)
0
500
1000
1500
2000
2500
3000

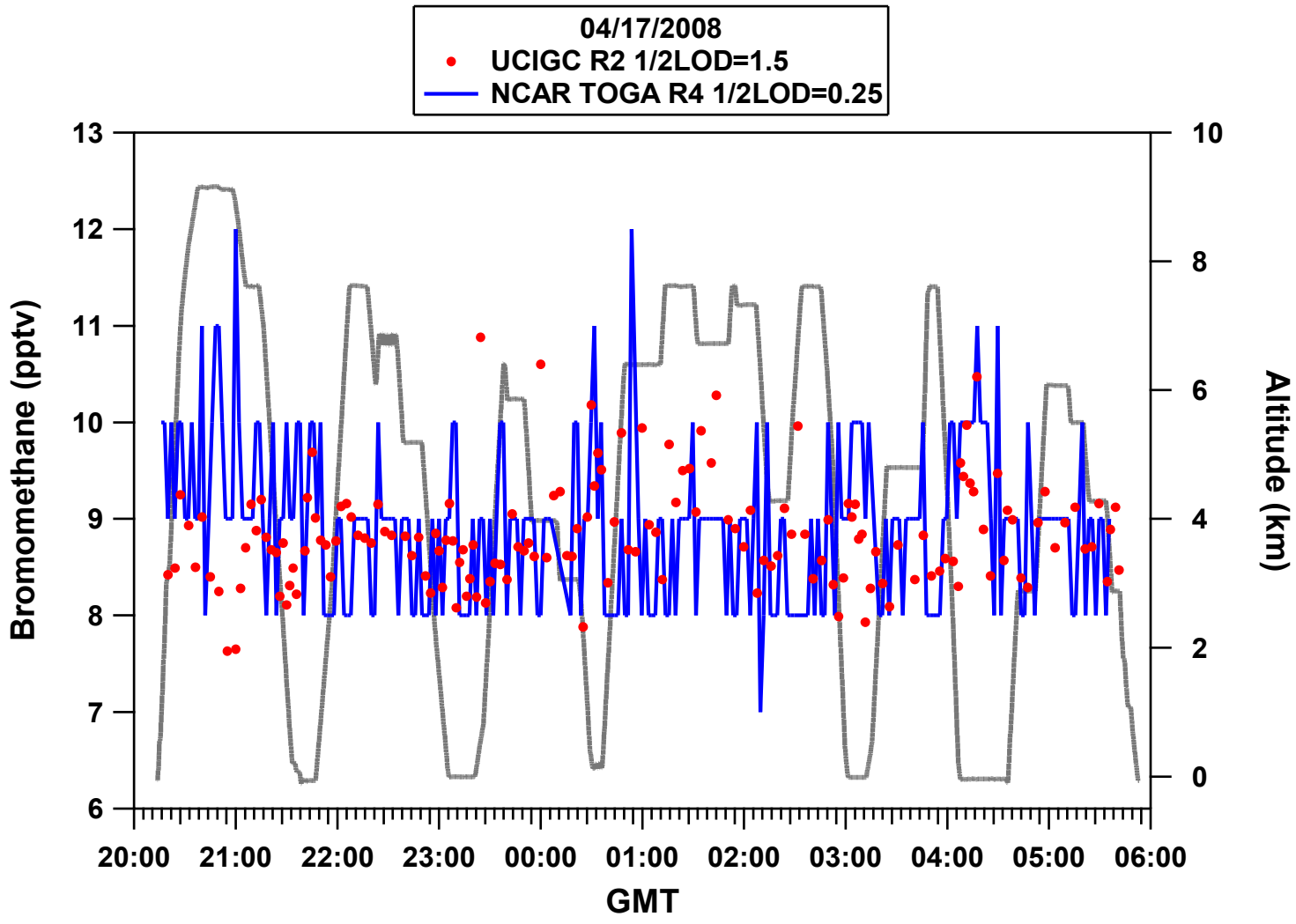

Acetone Correlation
04/17/2008
Slope = 0.76 ± 0.05
Intercept = 195.84 ± 62.84
R2 =0.54
1:1
NCAR PT-RMS (pptv)
NCAR TOGA (pptv)
0
500
1000
1500
2000

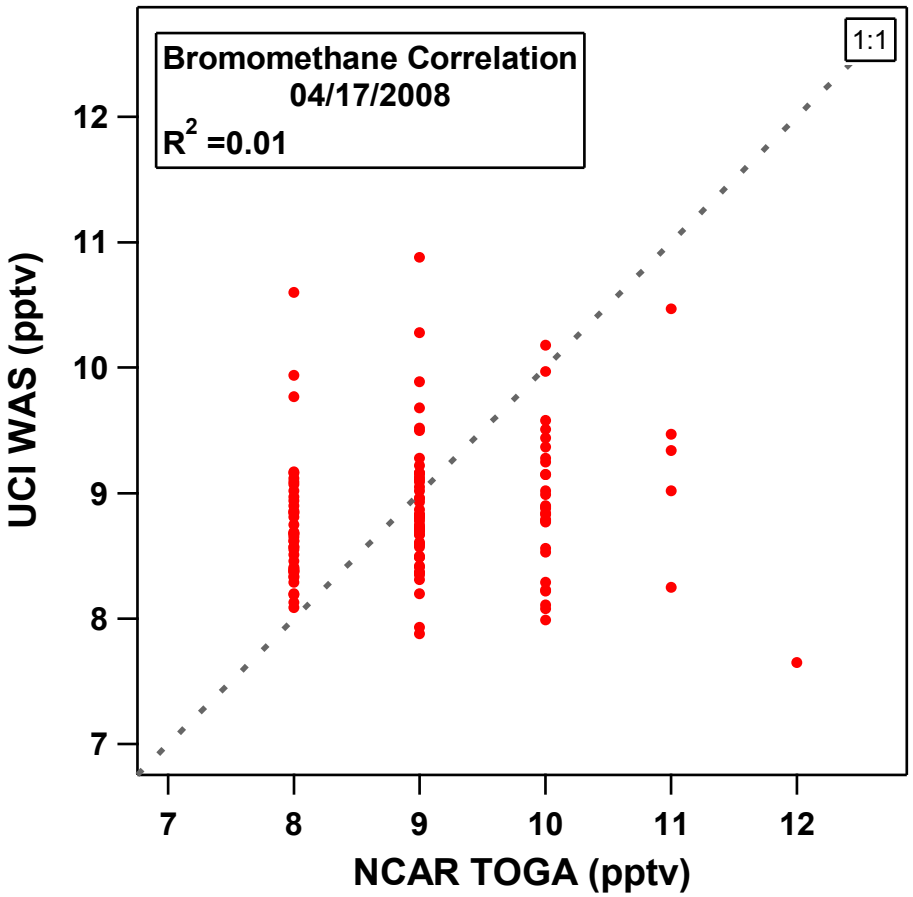

04/17/2008
NCAR TOGA R4 1/2LOD=5
NCAR PTRMS R1
Acetonitrile (pptv)
300
250
200
150
100
50
0
Altitude (km)
10
8
6
4
2
0
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00
04:00
05:00
06:00
GMT

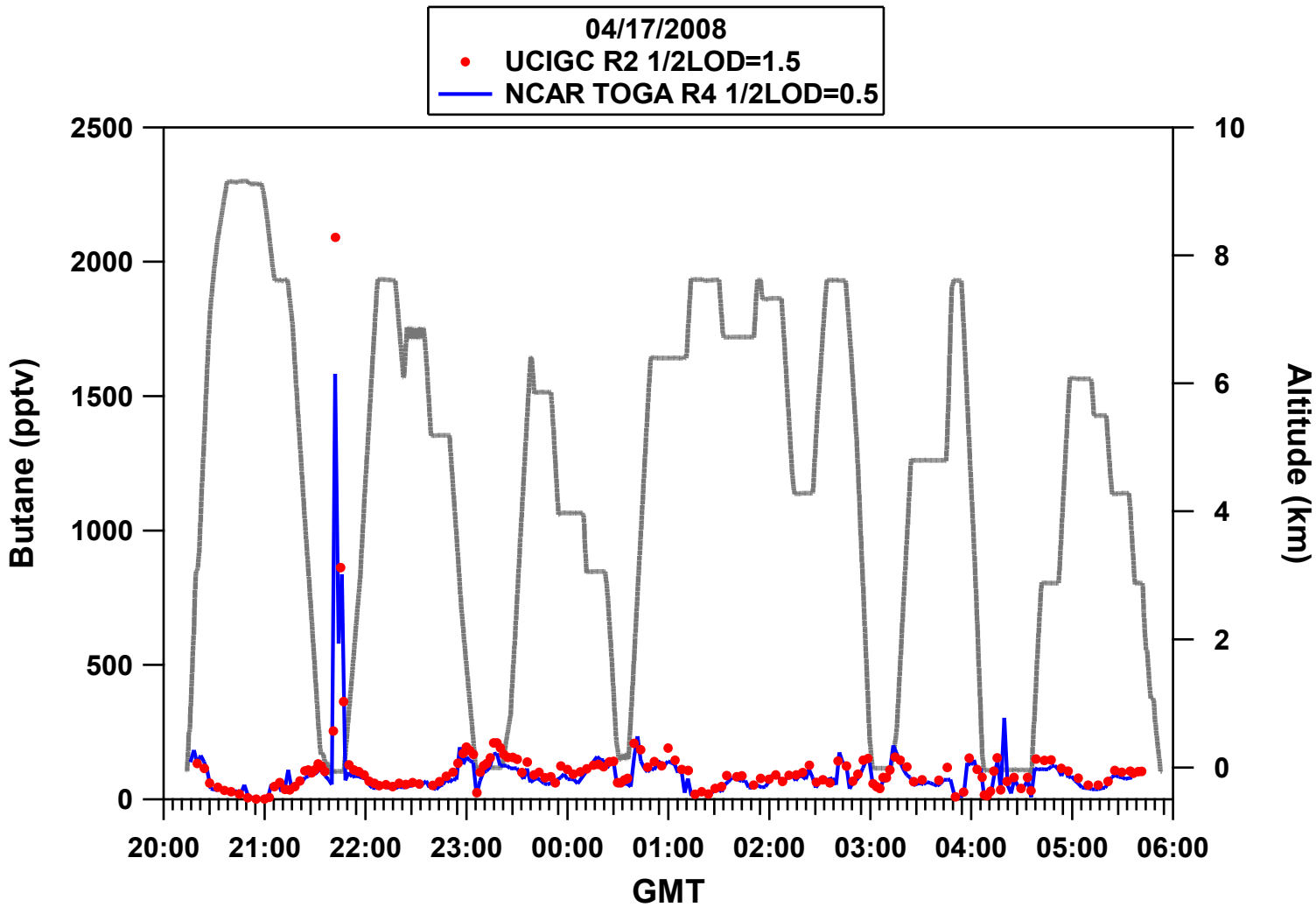

Aectonitrile Correlation
04/17/2008
Slope = 1.42 ± 0.08
Intercept = -31.55 ± 7.49
R2 =0.68
1:1
NCAR PT-RMS (pptv)
NCAR TOGA (pptv)
0
50
100
150
200
250
300

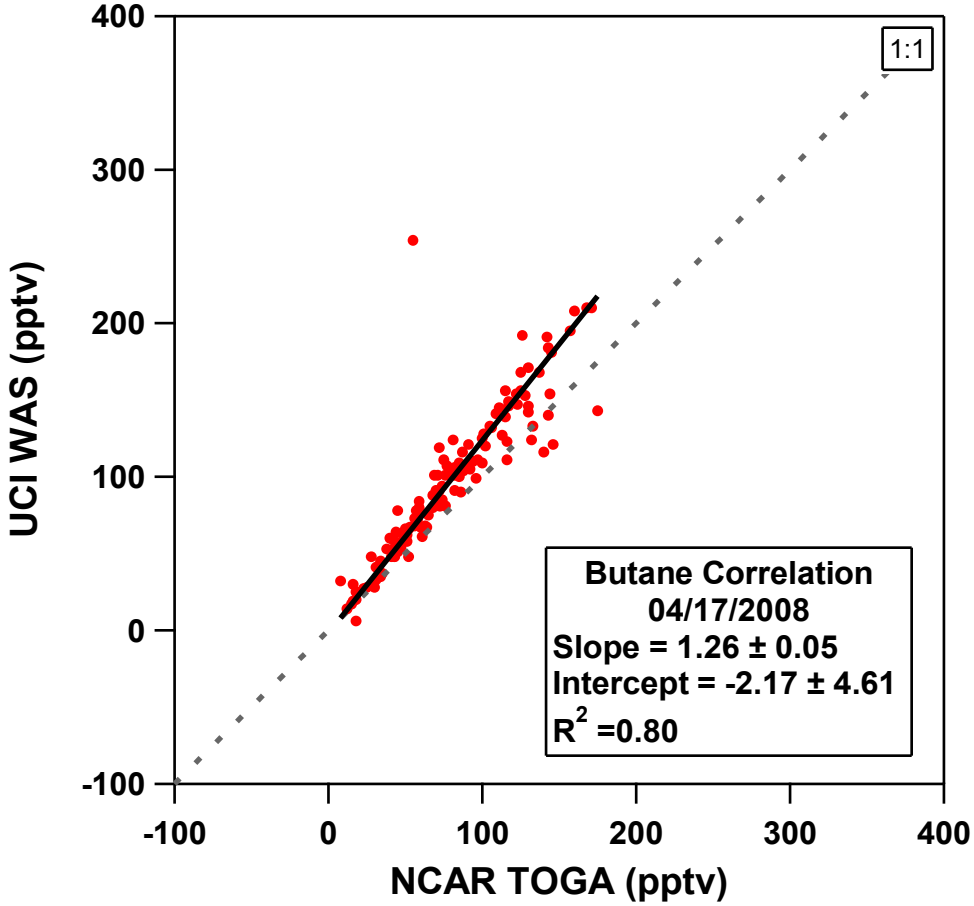

04/17/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
PTRMS R1
Benzene (pptv)
Altitude (km)
GMT
500
400
300
200
100
0
10
8
6
4
2
0
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00
04:00
05:00
06:00

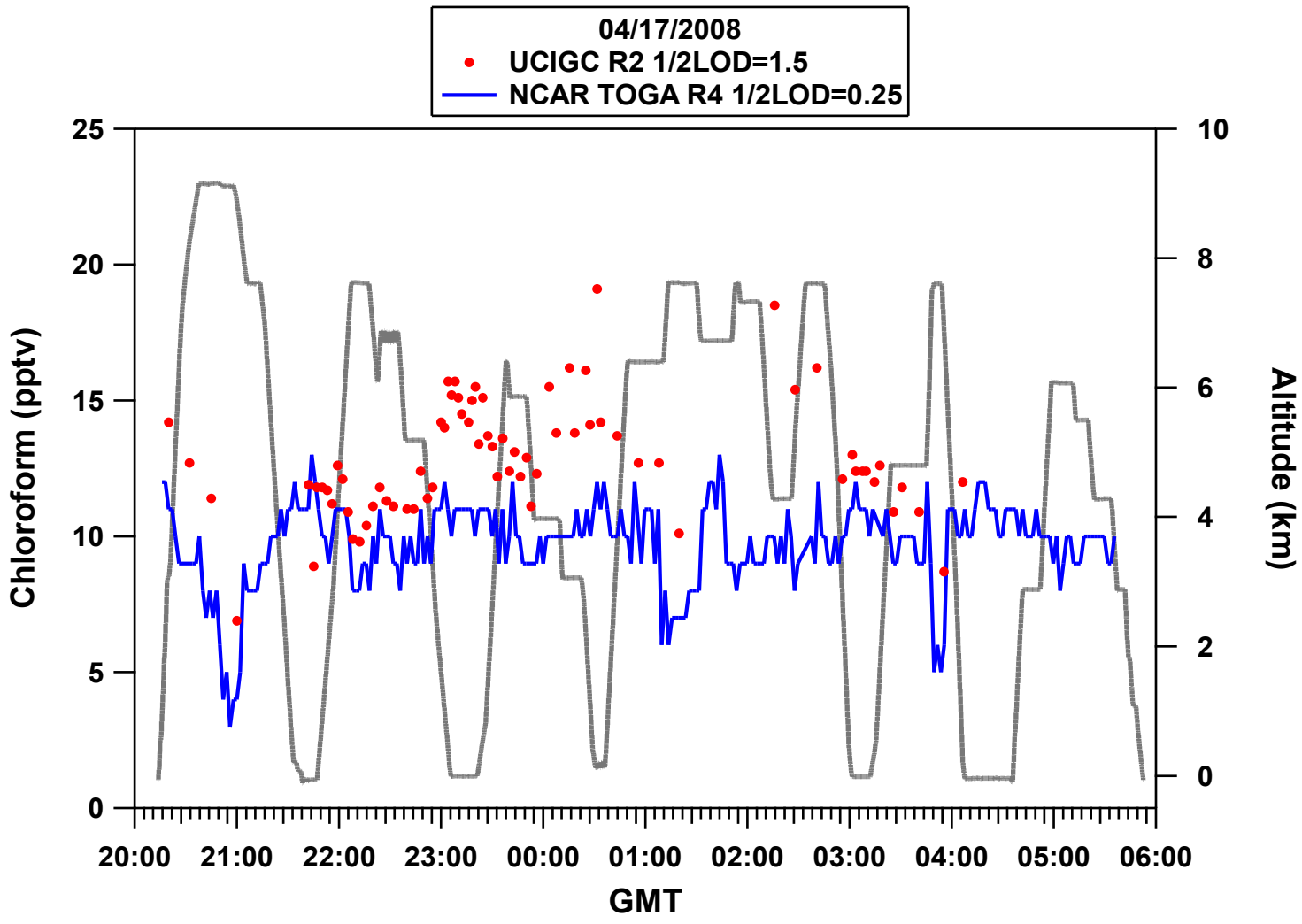

Benzene Correlation
04/17/2008
Slope = 1.17 ± 0.05
Intercept = -17.97 ± 5.59
R2 =0.73
1:1
UCI WAS (pptv)
NCAR PT-RMS (pptv)
250
200
150
100
50
0
0
50
100
150
200
250

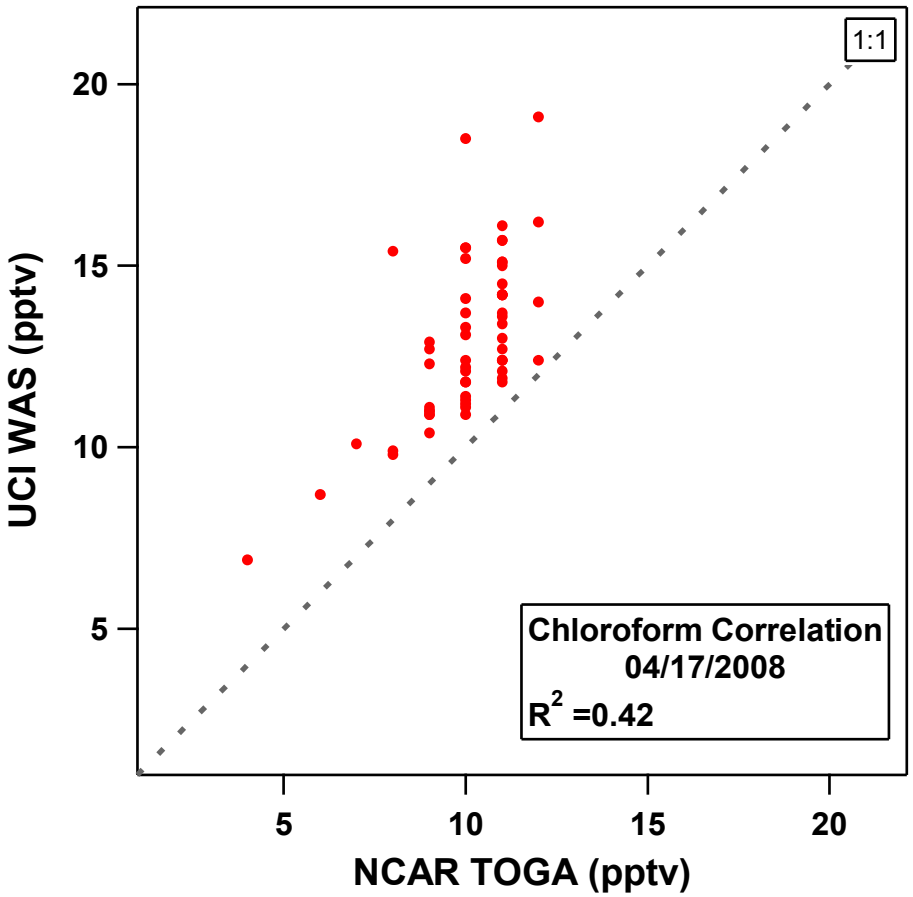

04/17/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.25
Bromomethane (pptv)
Altitude (km)
GMT
13
12
11
10
9
8
7
6
10
8
6
4
2
0
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00
04:00
05:00
06:00

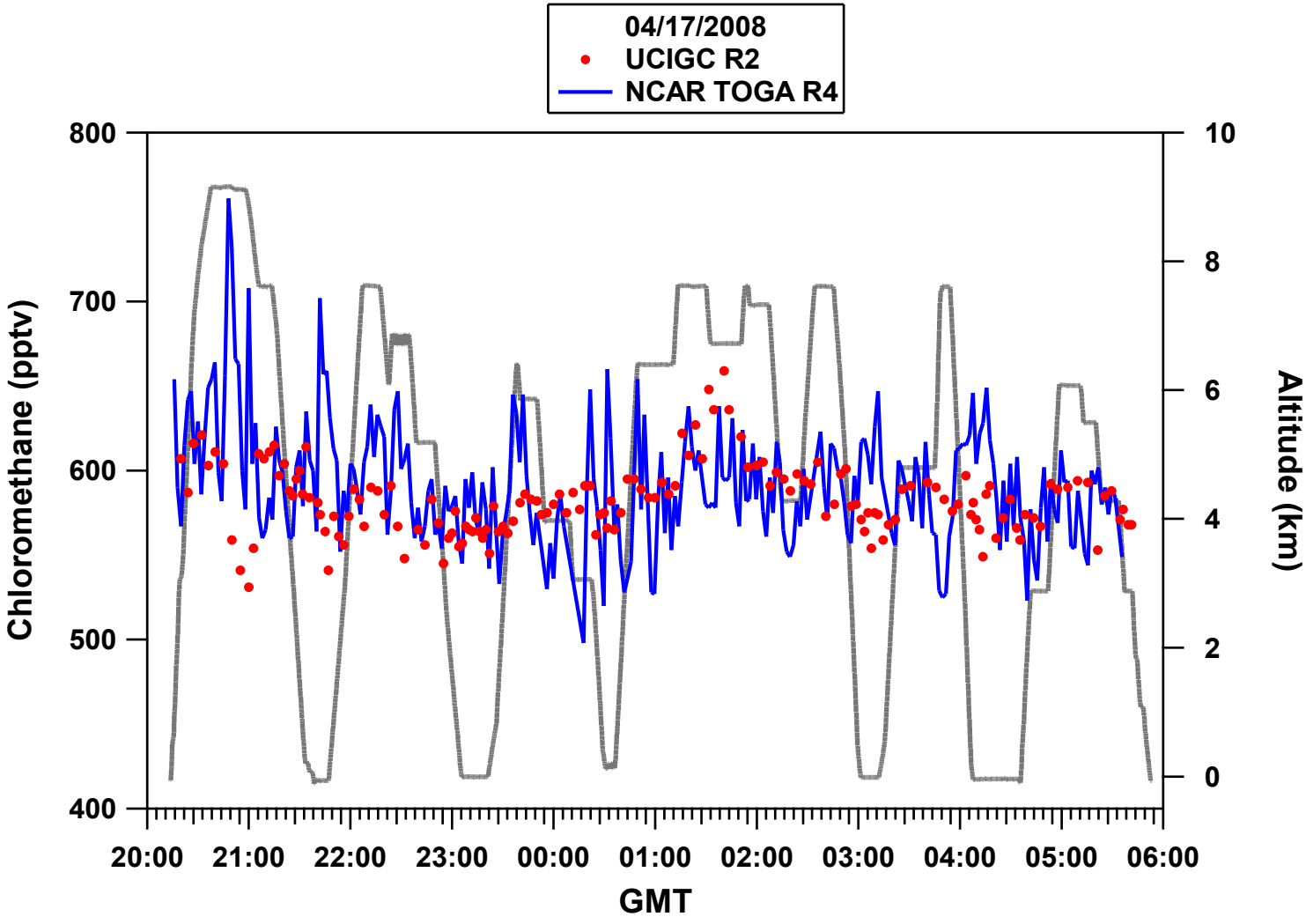

Bromomethane Correlation
04/17/2008
R2 =0.01
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
7
8
9
10
11
12

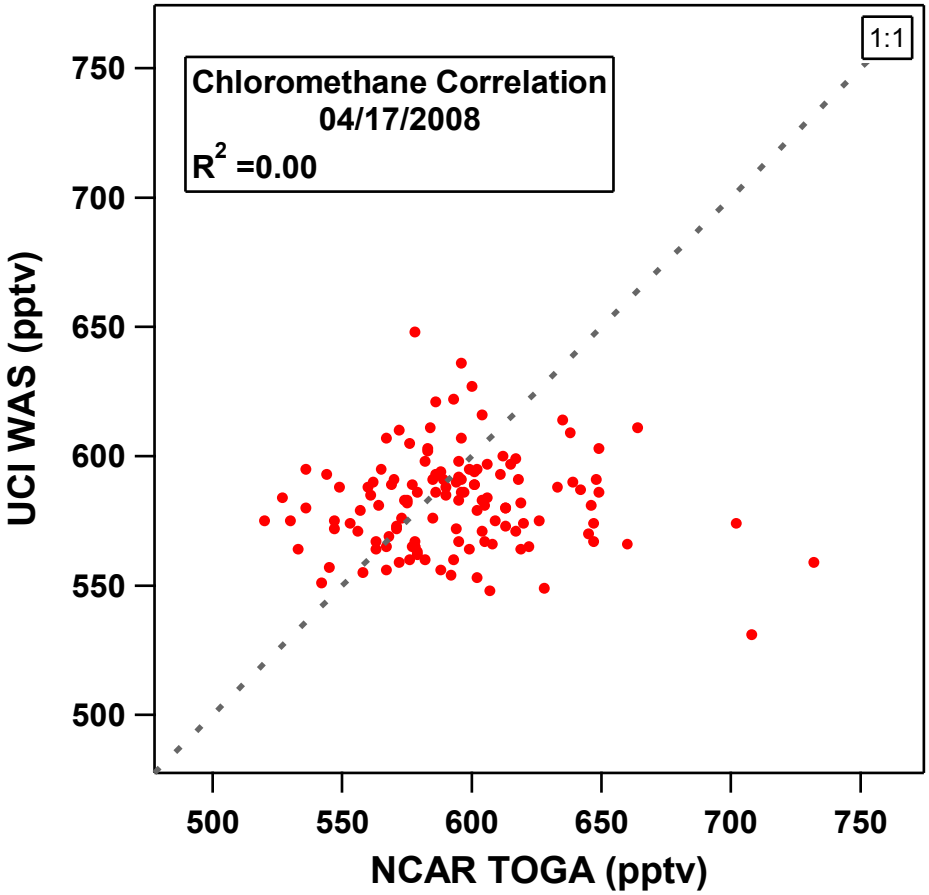

04/17/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
Butane (pptv)
2500
2000
1500
1000
500
0
Altitude (km)
10
8
6
4
2
0
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00
04:00
05:00
06:00
GMT

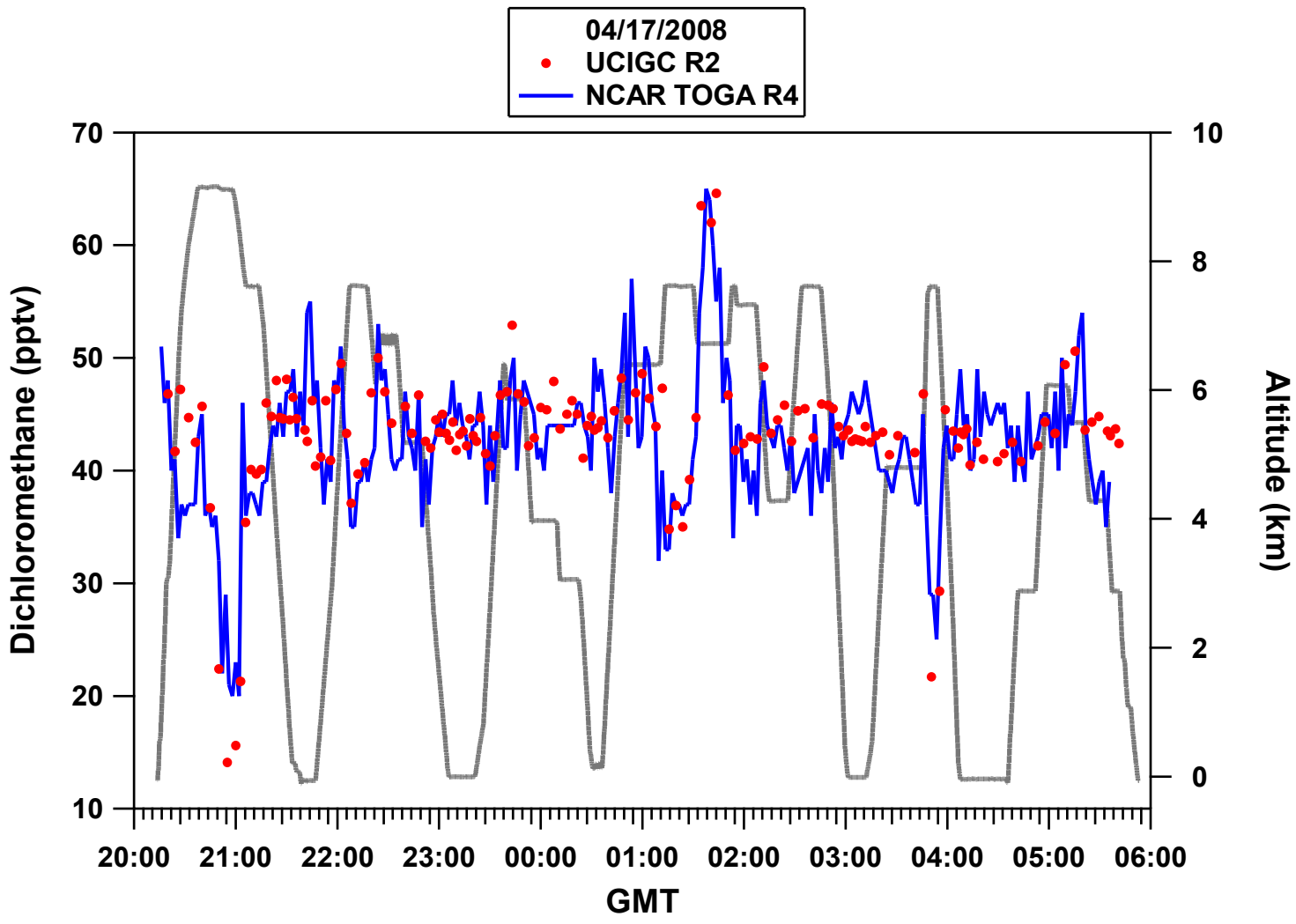

1:1
Butane Correlation
04/17/2008
Slope = 1.26 ± 0.05
Intercept = -2.17 ± 4.61
R2 =0.80
UCI WAS (pptv)
NCAR TOGA (pptv)
400
300
200
100
0
-100
-100
0
100
200
300
400

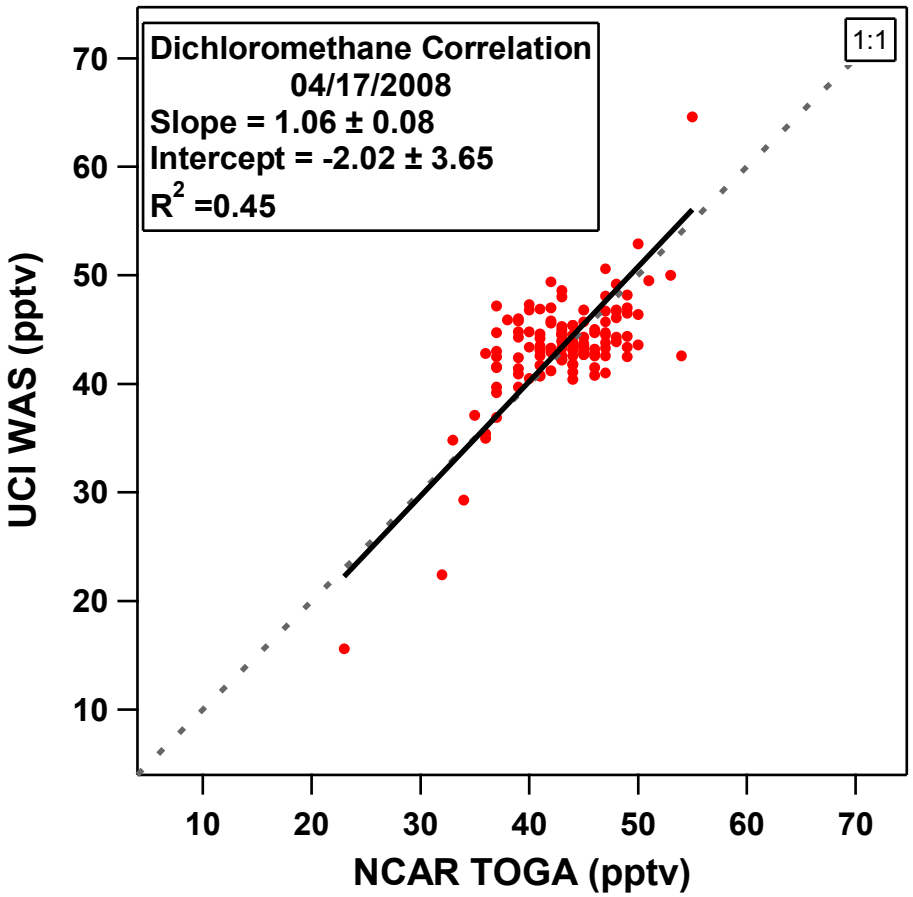

04/17/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.25
Chloroform (pptv)
Altitude (km)
GMT
0
5
10
15
20
25
0
2
4
6
8
10
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00
04:00
05:00
06:00

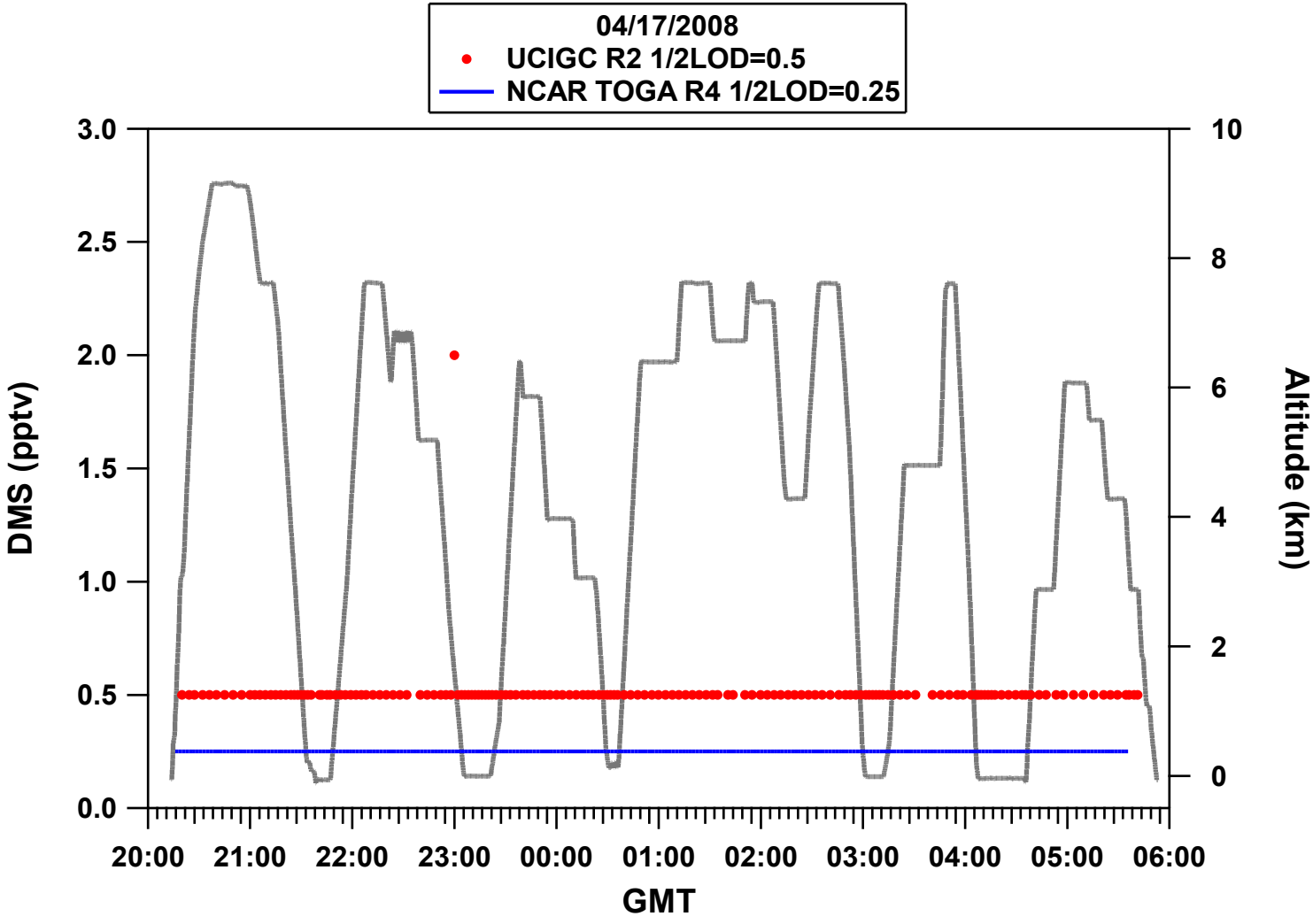

1:1
Chloroform Correlation
04/17/2008
R2 =0.42
UCI WAS (pptv)
NCAR TOGA (pptv)
5
10
15
20
5
10
15
20

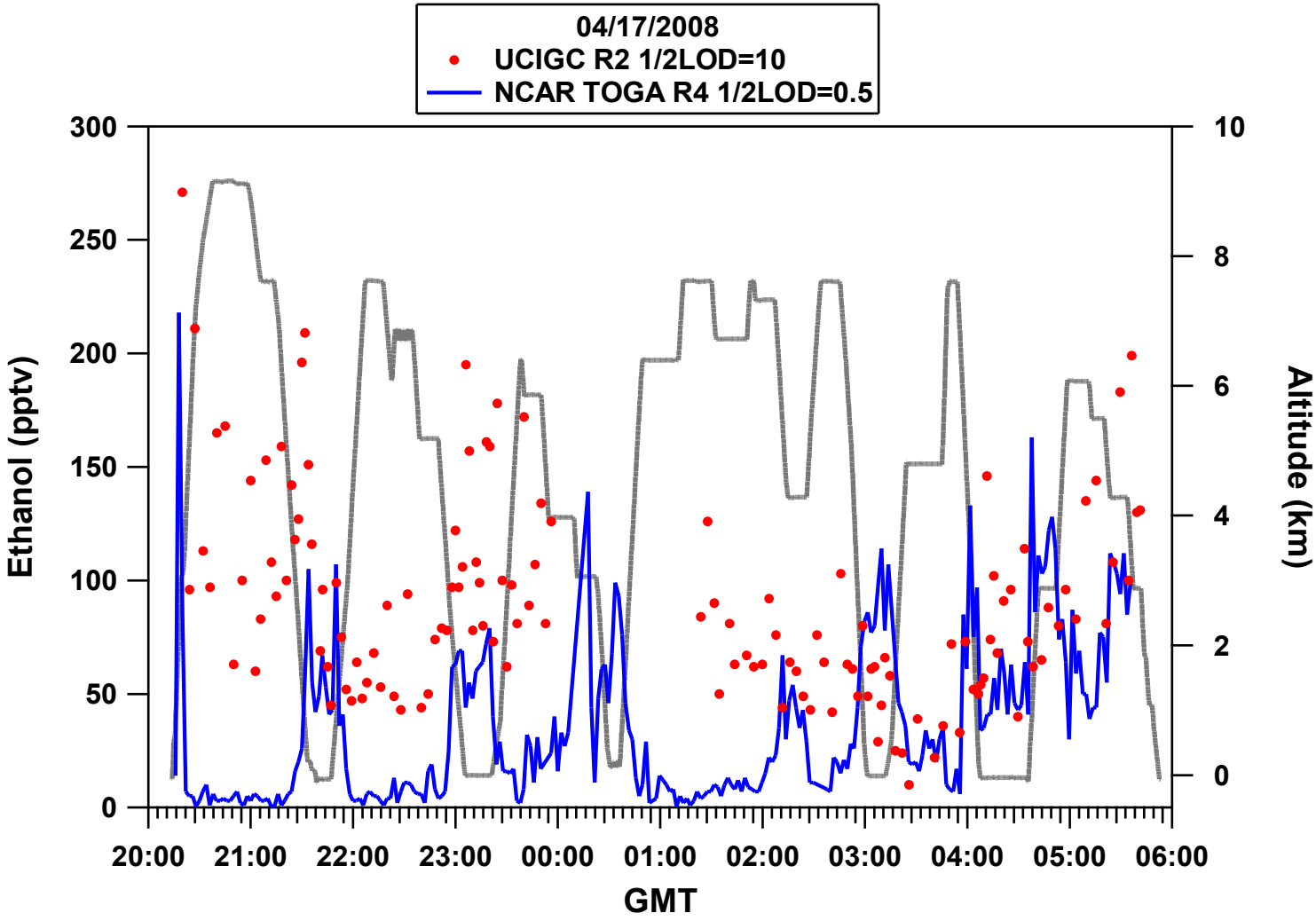

04/17/2008
UCIGC R2
NCAR TOGA R4
Chloromethane (pptv)
800
700
600
500
400
Altitude (km)
10
8
6
4
2
0
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00
04:00
05:00
06:00
GMT

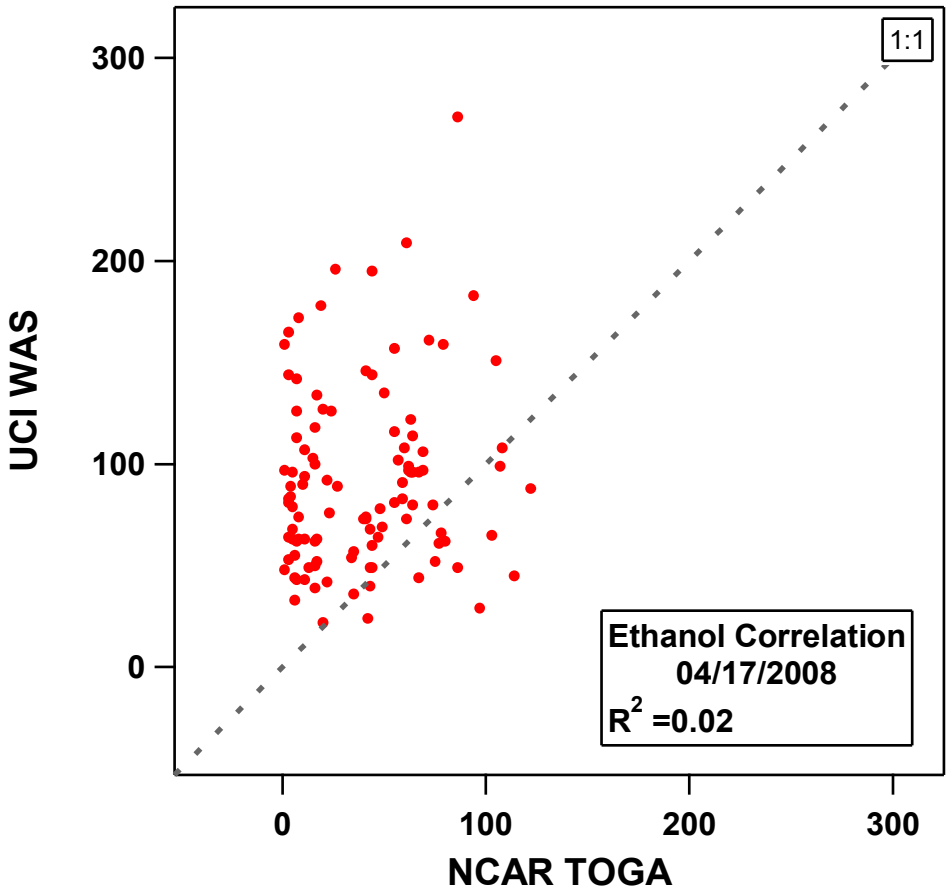

Chloromethane Correlation
04/17/2008
R2 =0.00
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
500
550
600
650
700
750

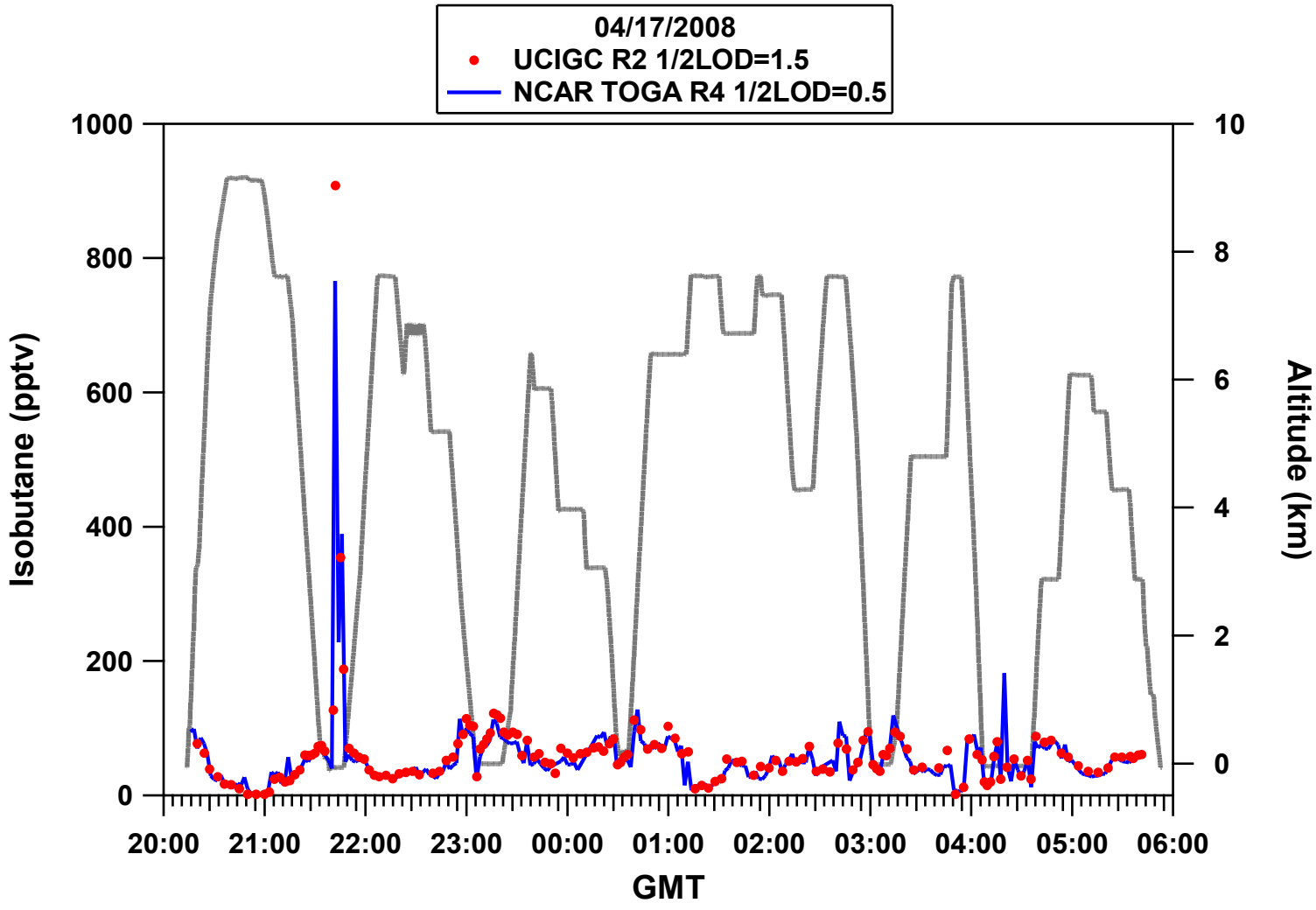

04/17/2008
UCIGC R2
NCAR TOGA R4
Dichloromethane (pptv)
Altitude (km)
GMT
70
60
50
40
30
20
10
10
8
6
4
2
0
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00
04:00
05:00
06:00

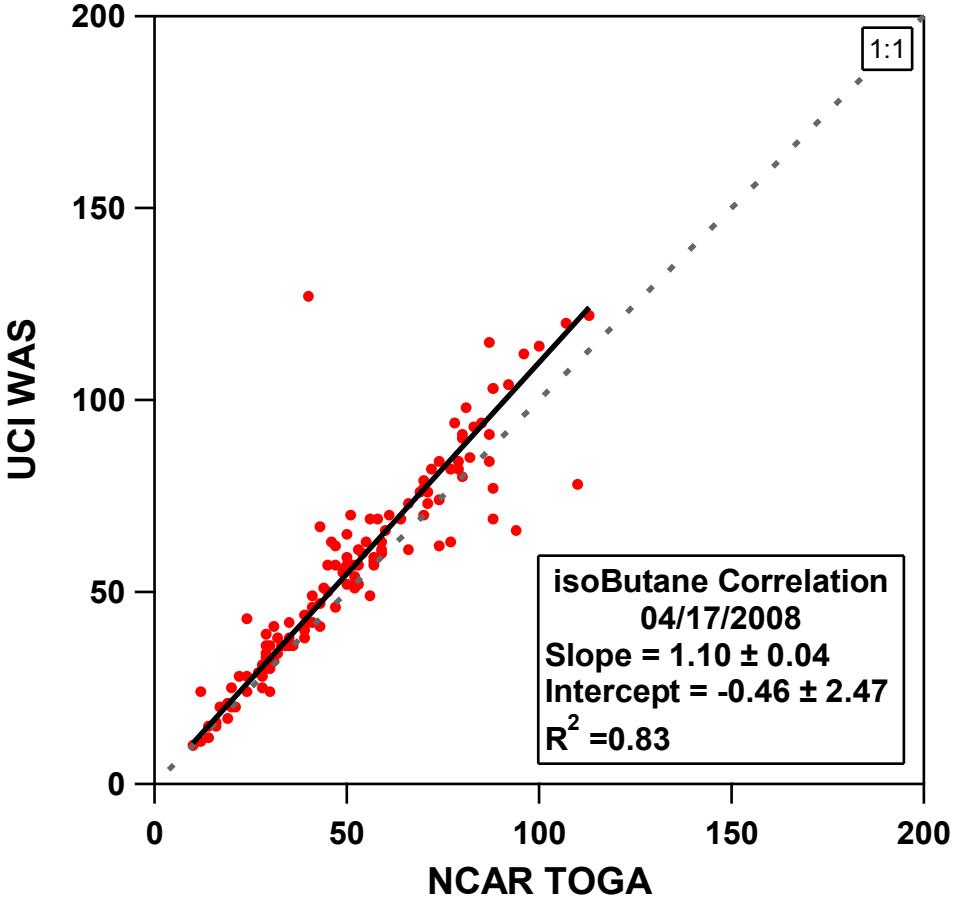

Dichloromethane Correlation
04/17/2008
Slope = 1.06 ± 0.08
Intercept = -2.02 ± 3.65
R2 =0.45
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
10
20
30
40
50
60
70

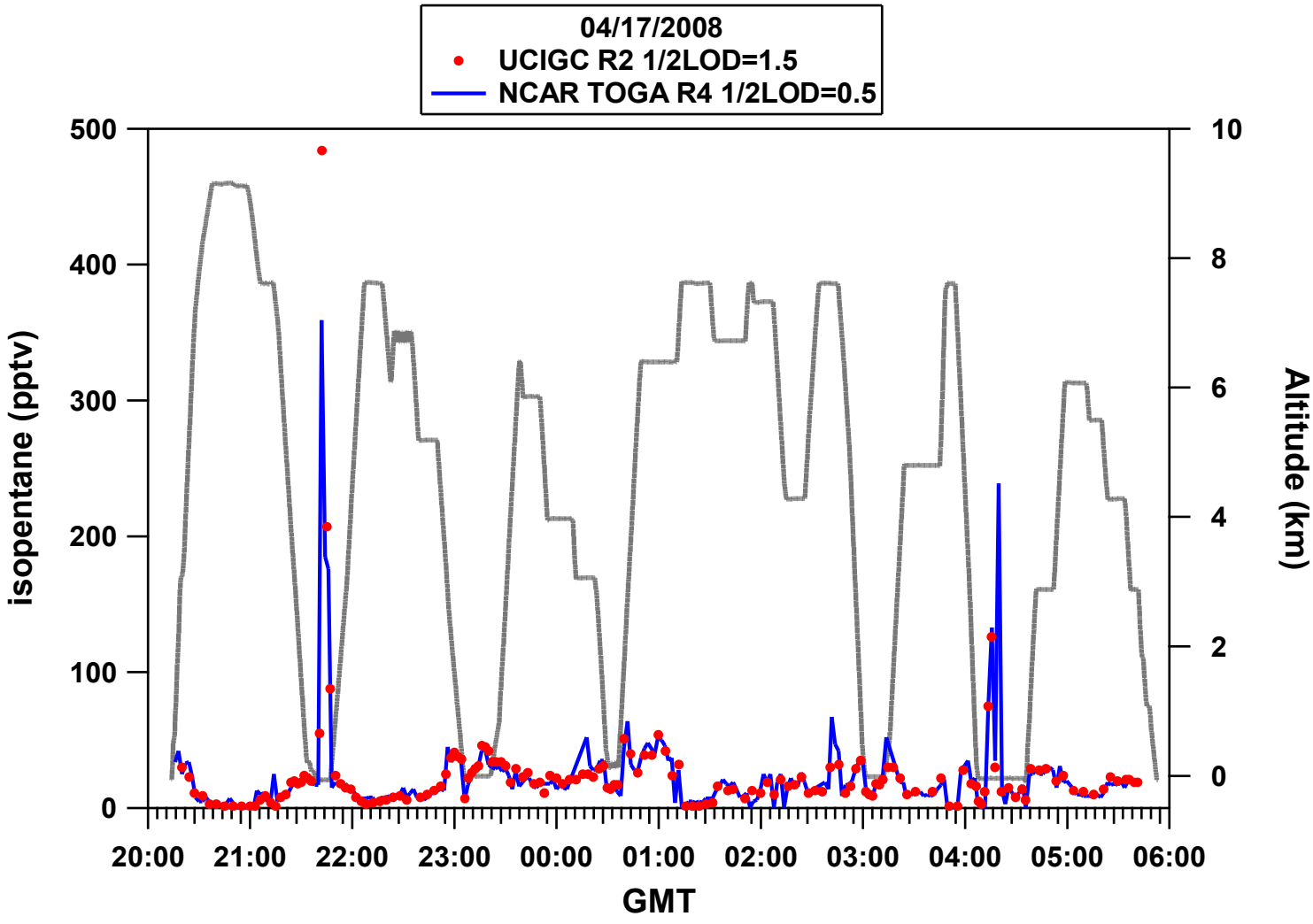

04/17/2008
UCIGC R2 1/2LOD=0.5
NCAR TOGA R4 1/2LOD=0.25
DMS (pptv)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Altitude (km)
10
8
6
4
2
0
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00
04:00
05:00
06:00
GMT

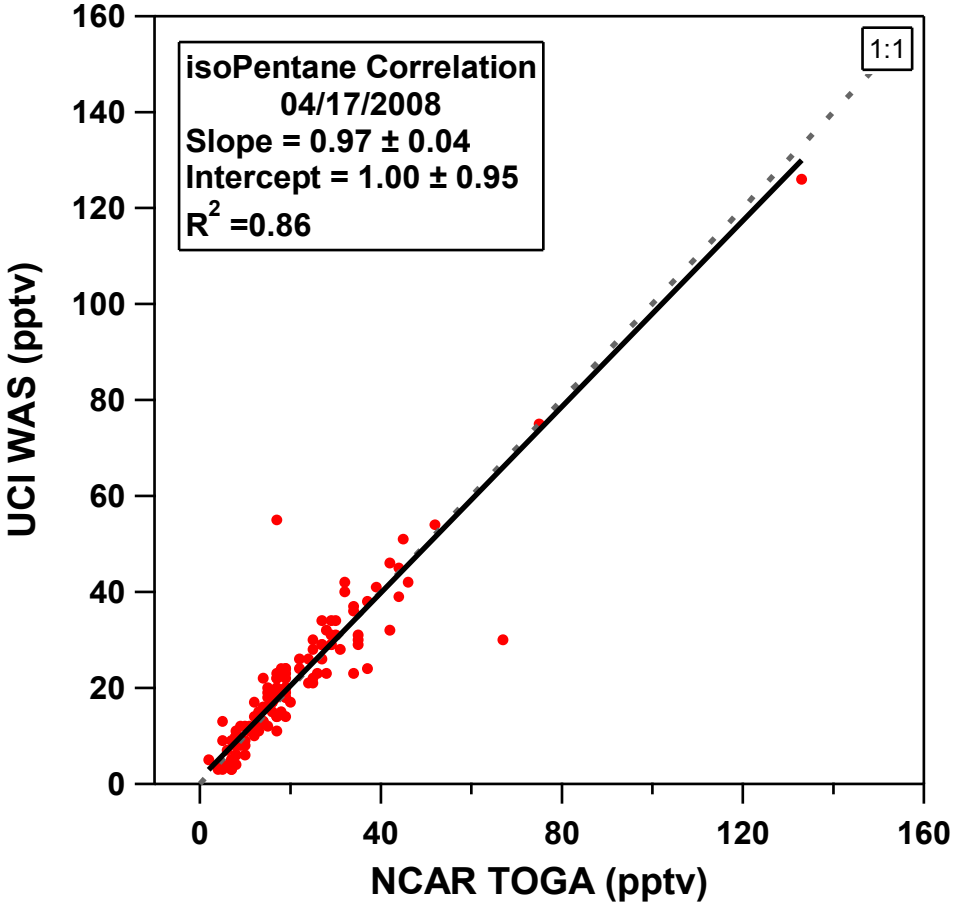

04/17/2008
UCIGC R2 1/2LOD=10
NCAR TOGA R4 1/2LOD=0.5
Ethanol (pptv)
Altitude (km)
GMT
300
250
200
150
100
50
0
10
8
6
4
2
0
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00
04:00
05:00
06:00

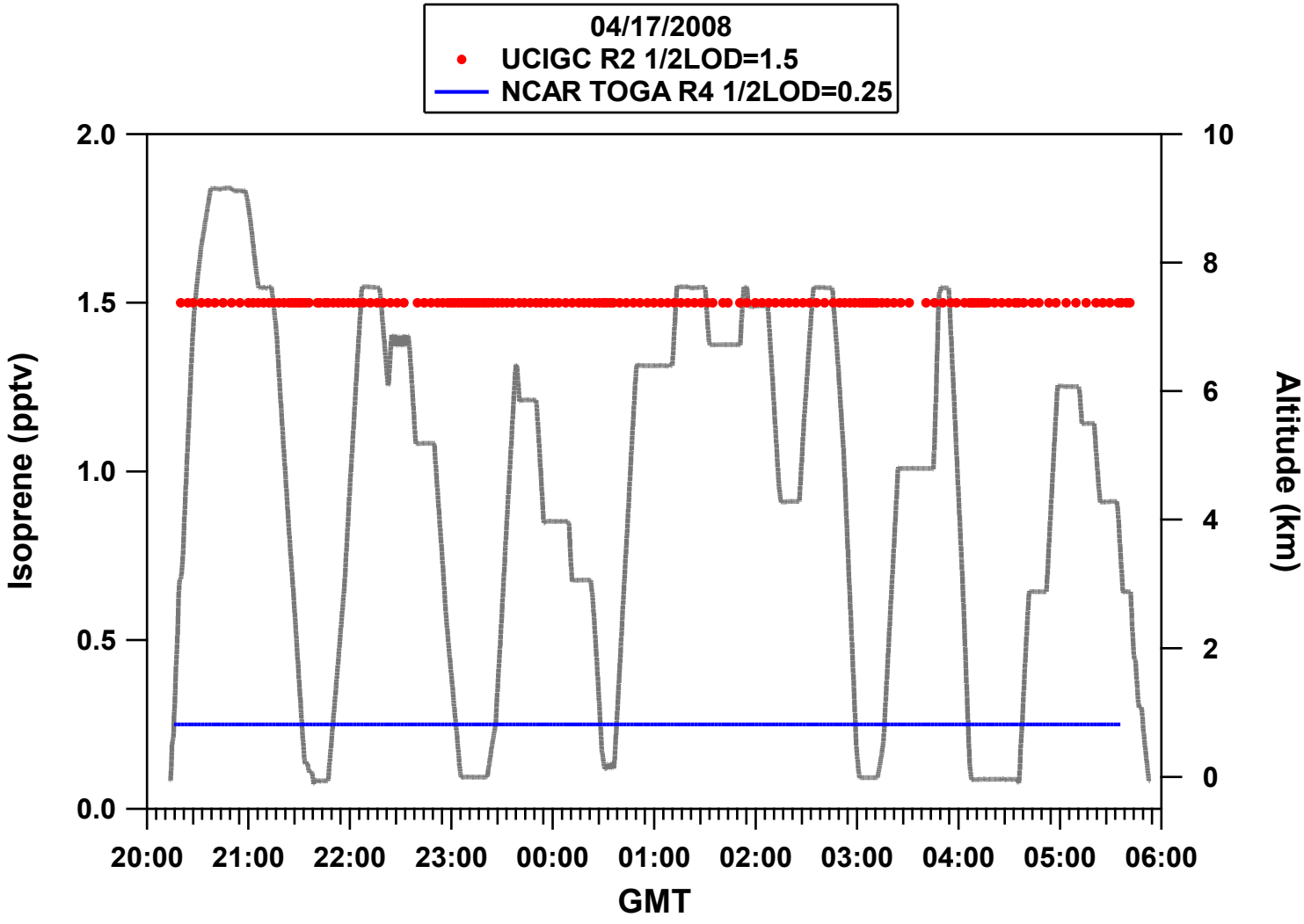

1:1
Ethanol Correlation
04/17/2008
R2 =0.02
UCI WAS
NCAR TOGA
300
200
100
0
0
100
200
300

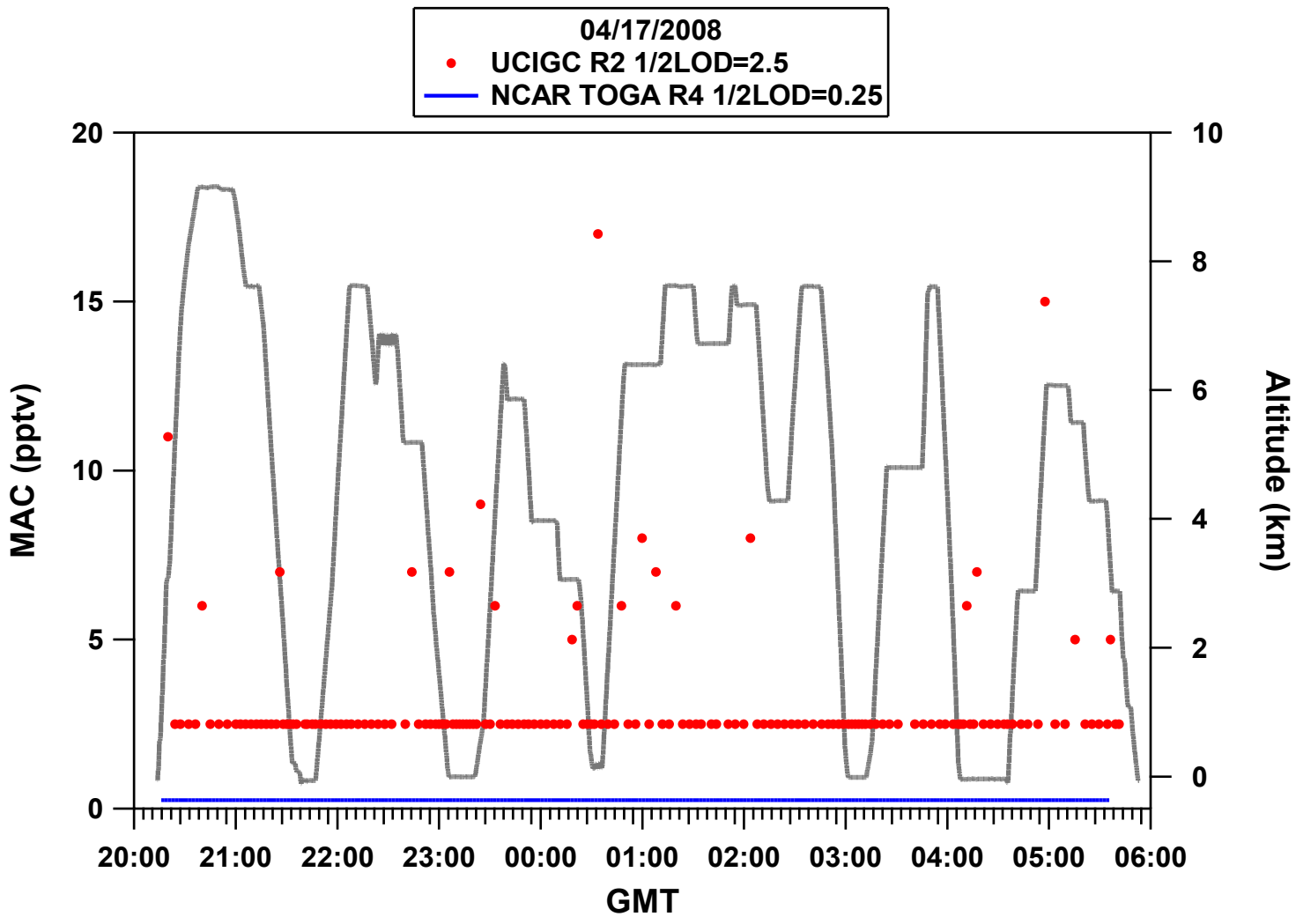

04/17/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
Isobutane (pptv)
Altitude (km)
GMT
1000
800
600
400
200
0
10
8
6
4
2
0
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00
04:00
05:00
06:00

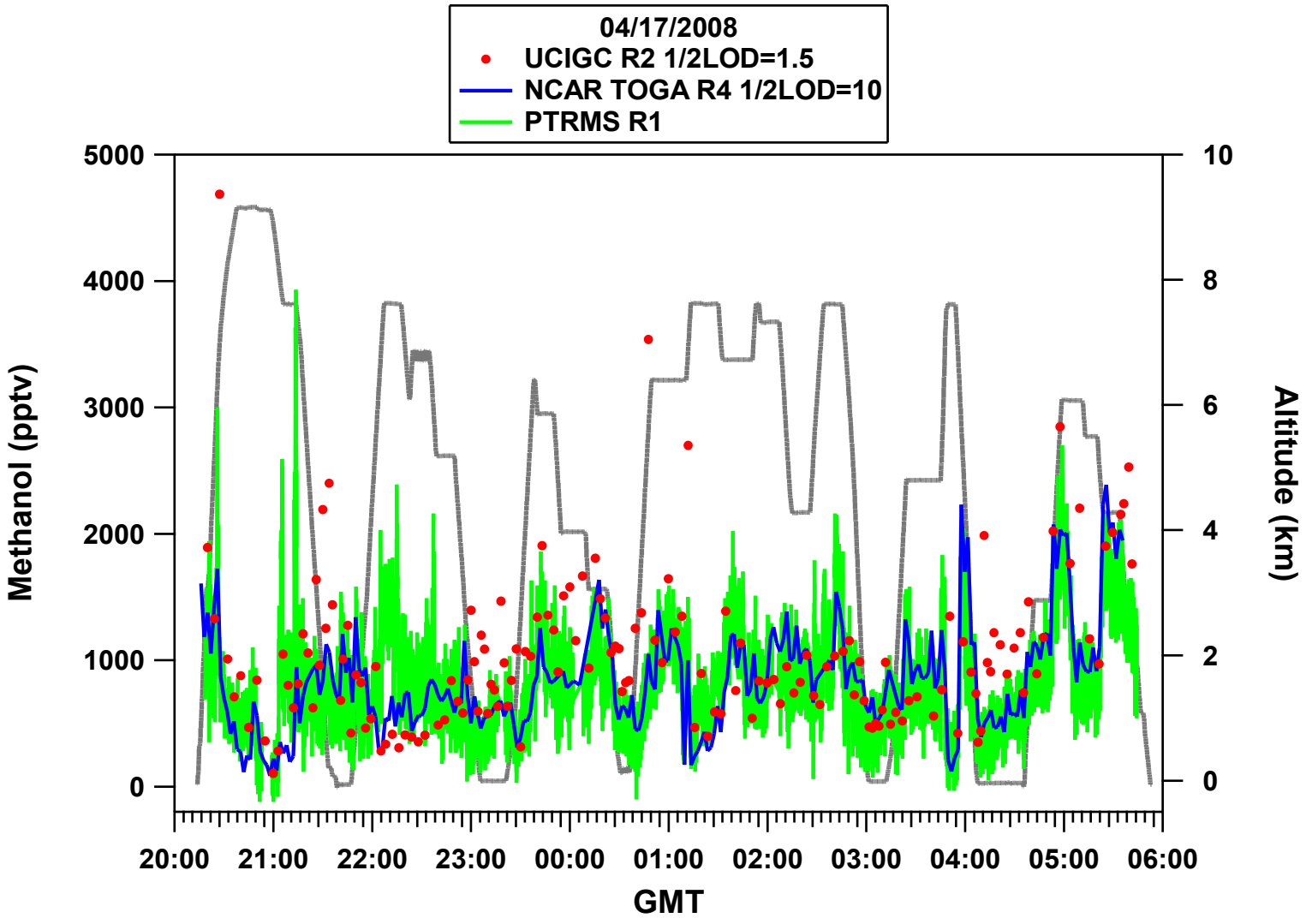

1:1
isoButane Correlation
04/17/2008
Slope = 1.10 ± 0.04
Intercept = -0.46 ± 2.47
R2 =0.83
UCI WAS
NCAR TOGA
0
50
100
150
200

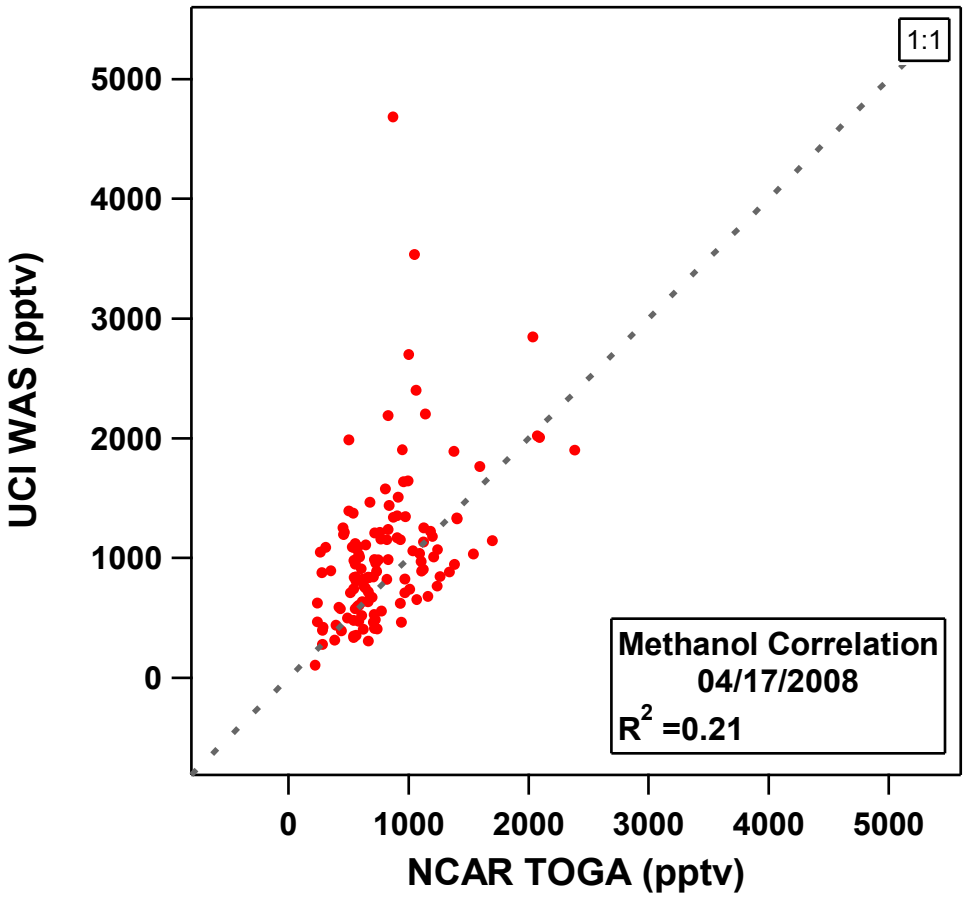

04/17/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
isopentane (pptv)
Altitude (km)
GMT
500
400
300
200
100
0
10
8
6
4
2
0
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00
04:00
05:00
06:00

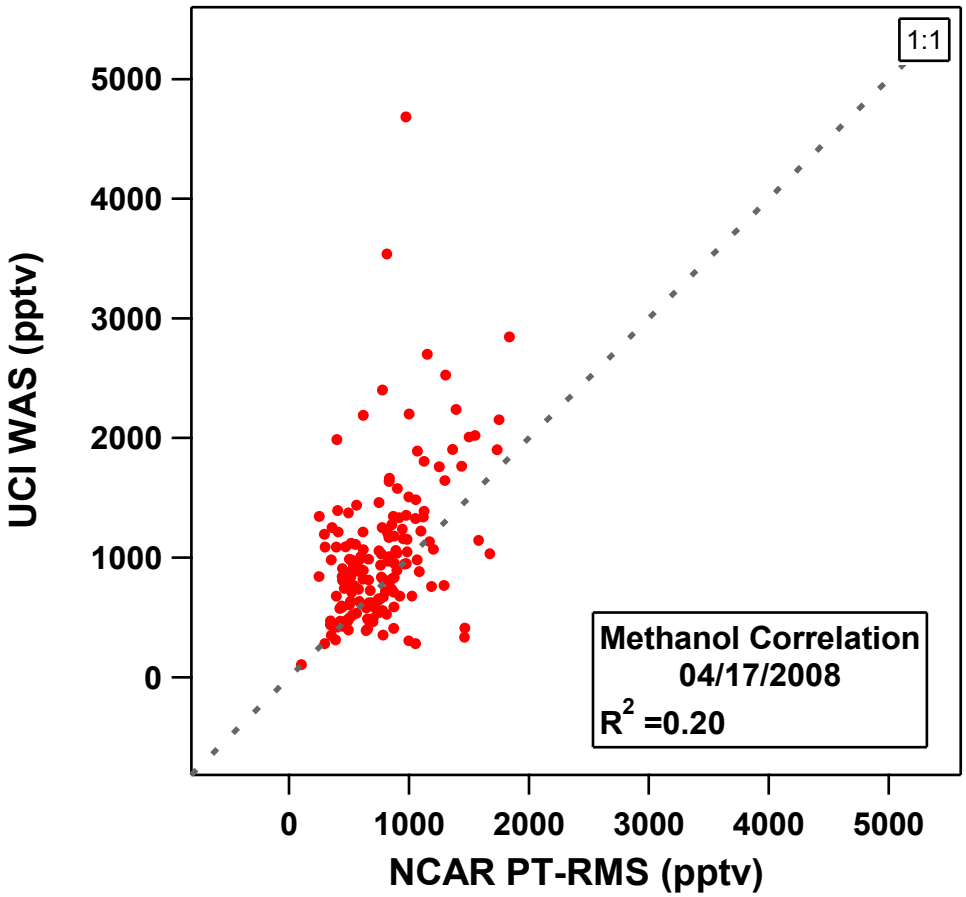

isoPentane Correlation
04/17/2008
Slope = 0.97 ± 0.04
Intercept = 1.00 ± 0.95
R2 =0.86
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
0
20
40
60
80
100
120
140
160
0
40
80
120
160

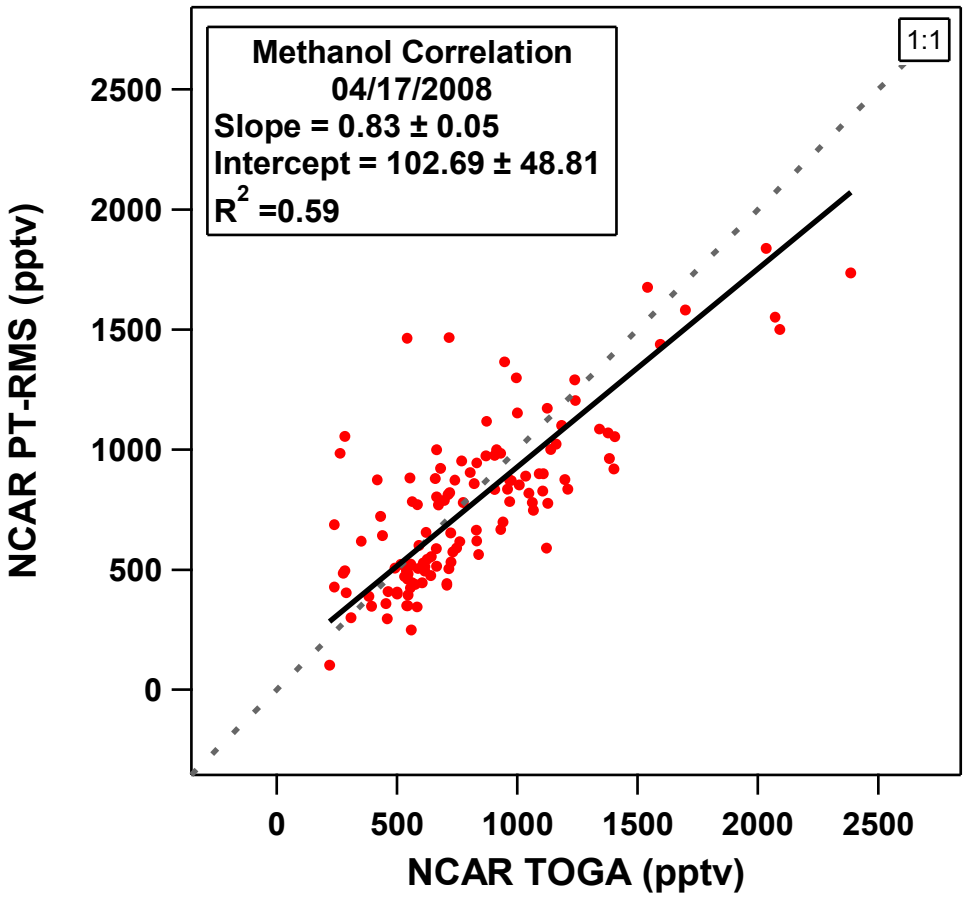

04/17/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.25
Isoprene (pptv)
2.0
1.5
1.0
0.5
0.0
Altitude (km)
10
8
6
4
2
0
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00
04:00
05:00
06:00
GMT

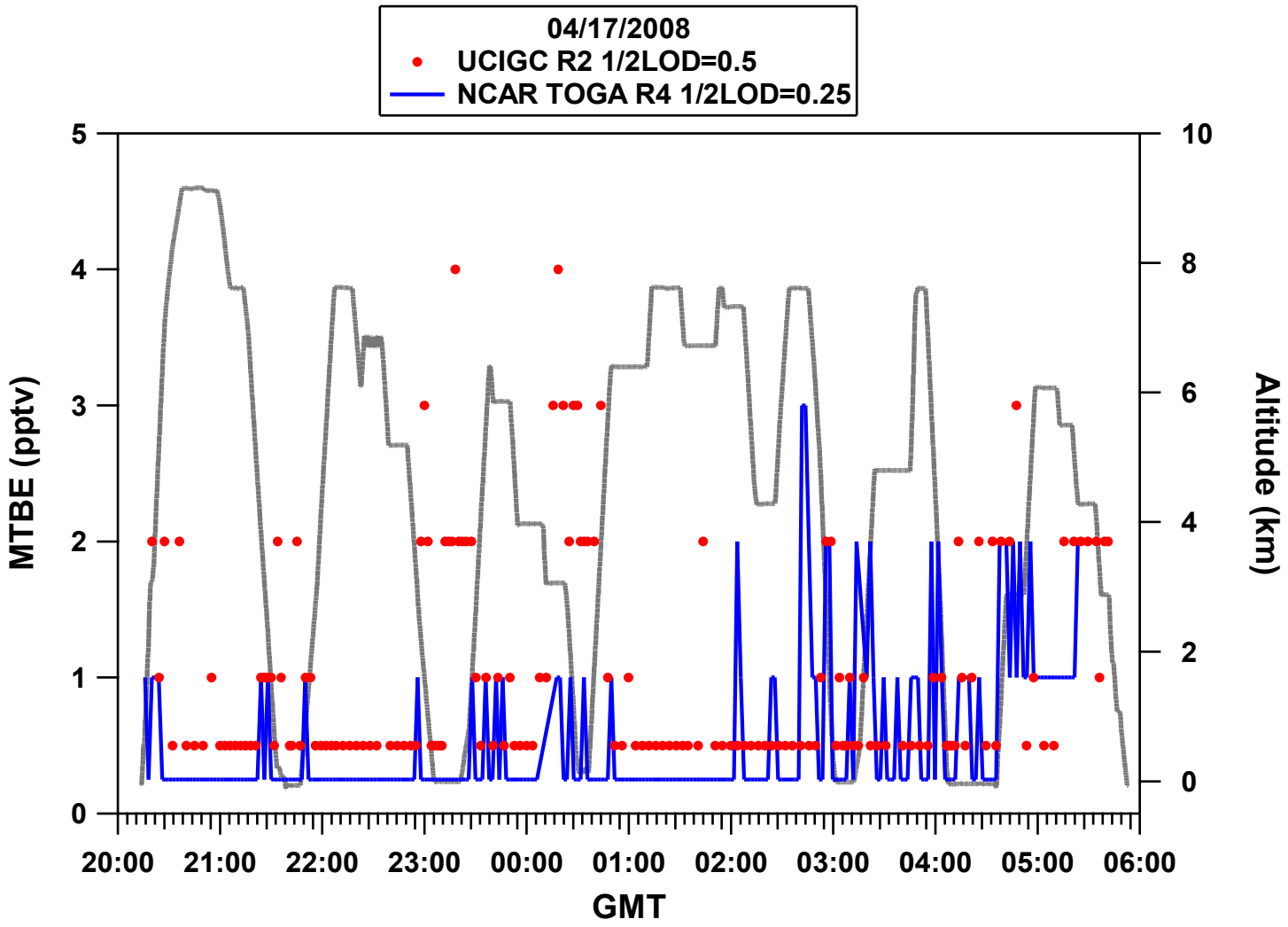

04/17/2008
UCIGC R2 1/2LOD=2.5
NCAR TOGA R4 1/2LOD=0.25
MAC (pptv)
Altitude (km)
GMT
20
15
10
5
0
10
8
6
4
2
0
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00
04:00
05:00
06:00

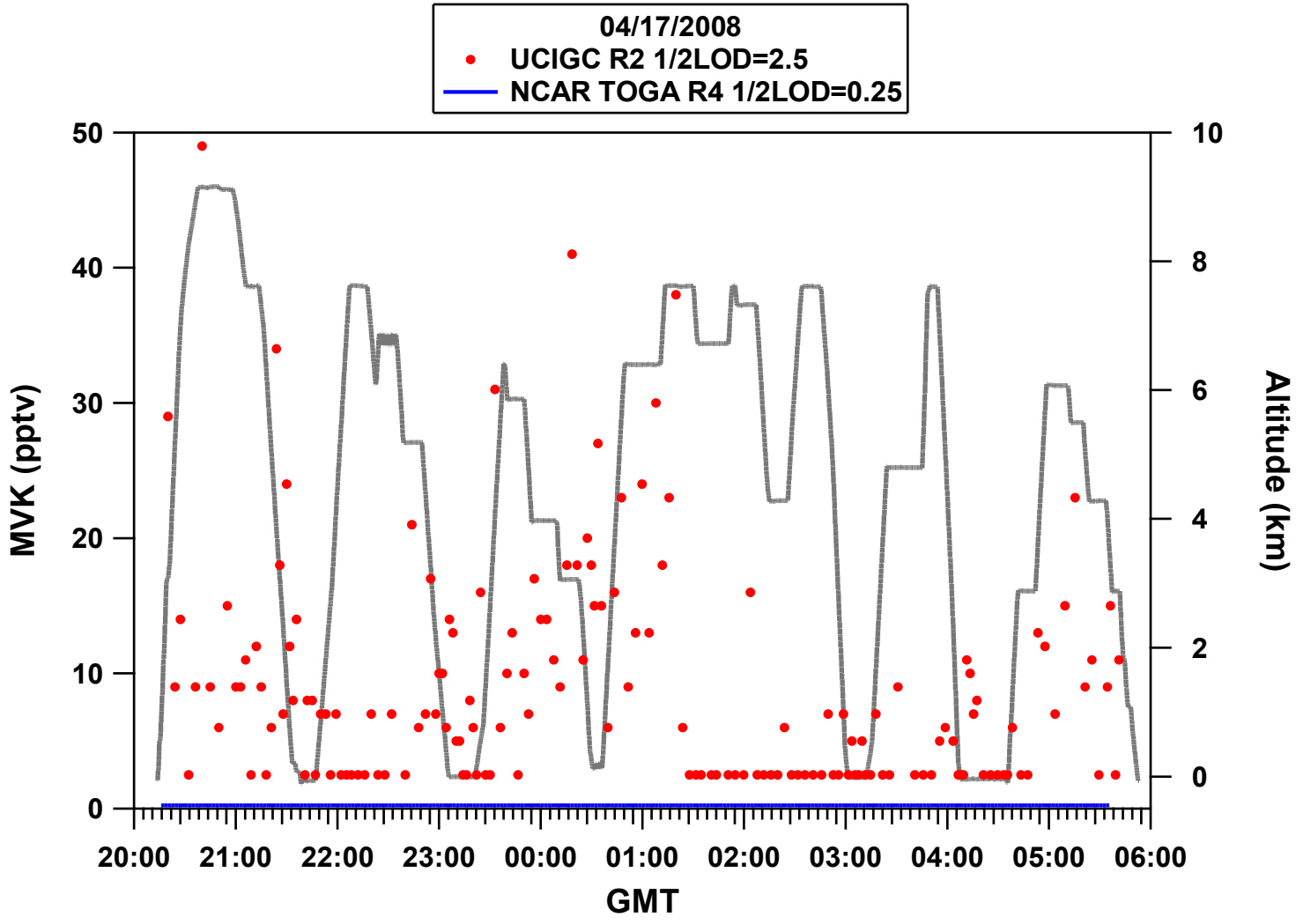

04/17/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=10
PTRMS R1
Methanol (pptv)
Altitude (km)
GMT
5000
4000
3000
2000
1000
0
10
8
6
4
2
0
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00
04:00
05:00
06:00

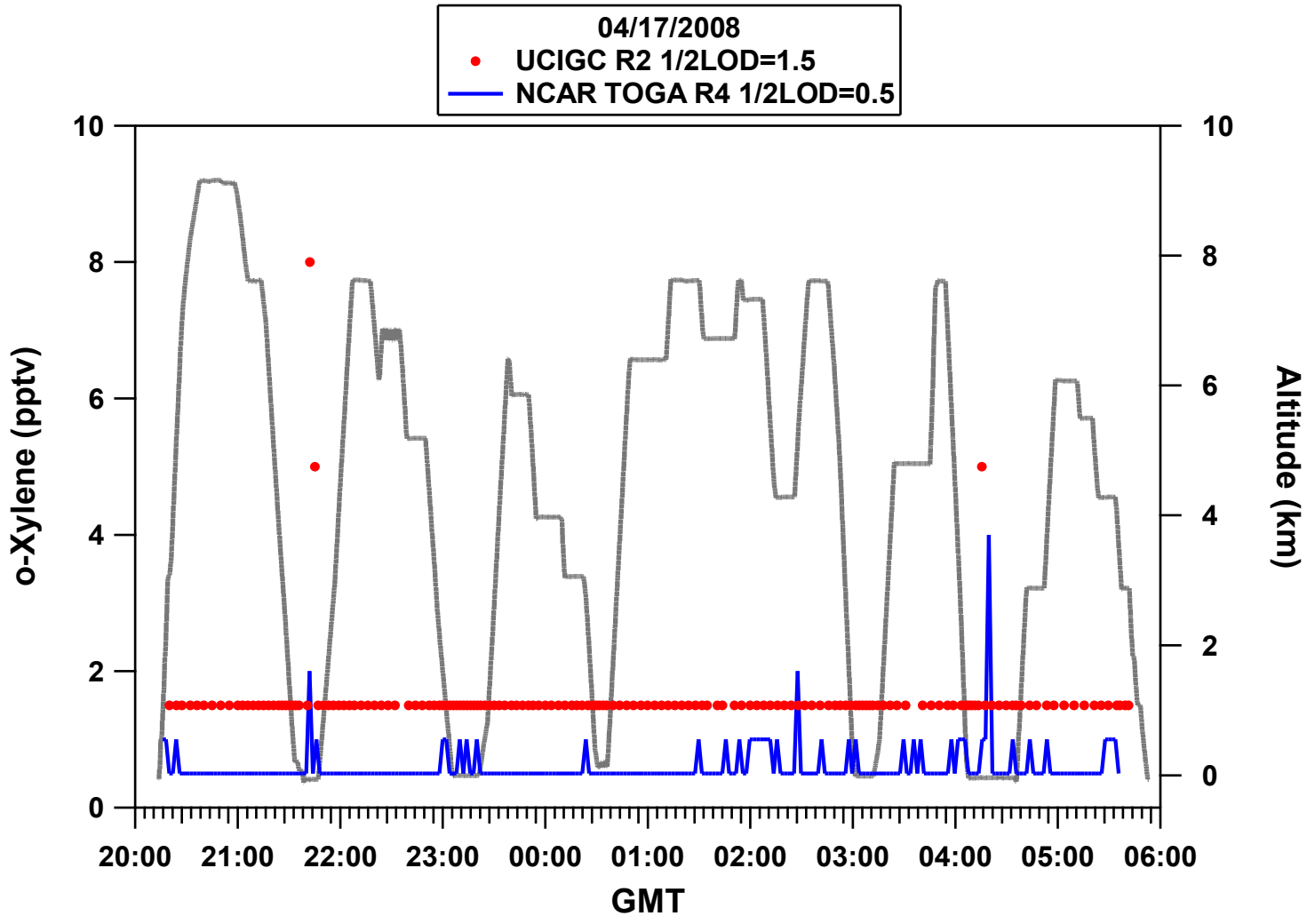

1:1
Methanol Correlation
04/17/2008
R2 =0.21
UCI WAS (pptv)
NCAR TOGA (pptv)
0
1000
2000
3000
4000
5000

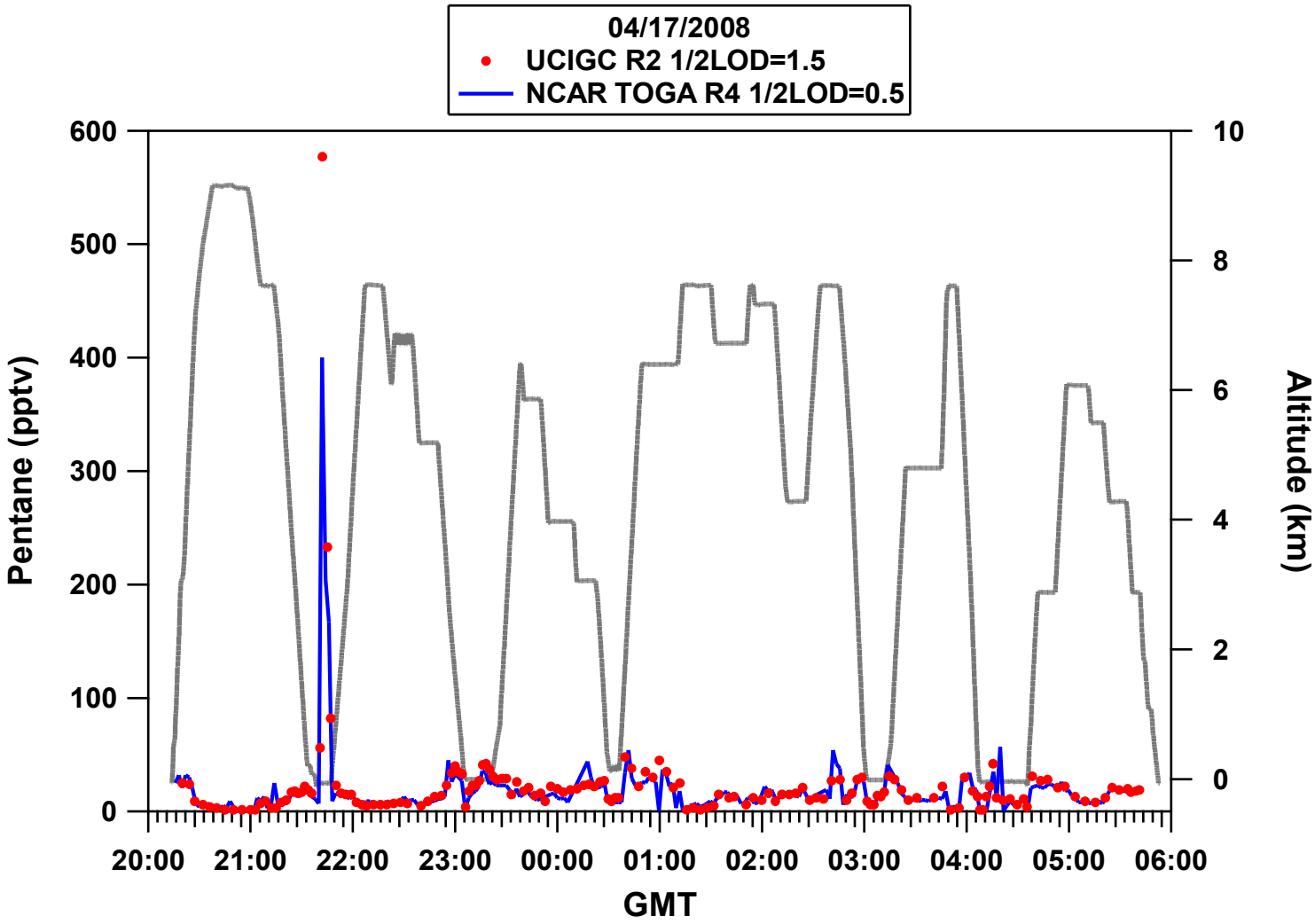

1:1
Methanol Correlation
04/17/2008
R2 =0.20
UCI WAS (pptv)
NCAR PT-RMS (pptv)
0
1000
2000
3000
4000
5000

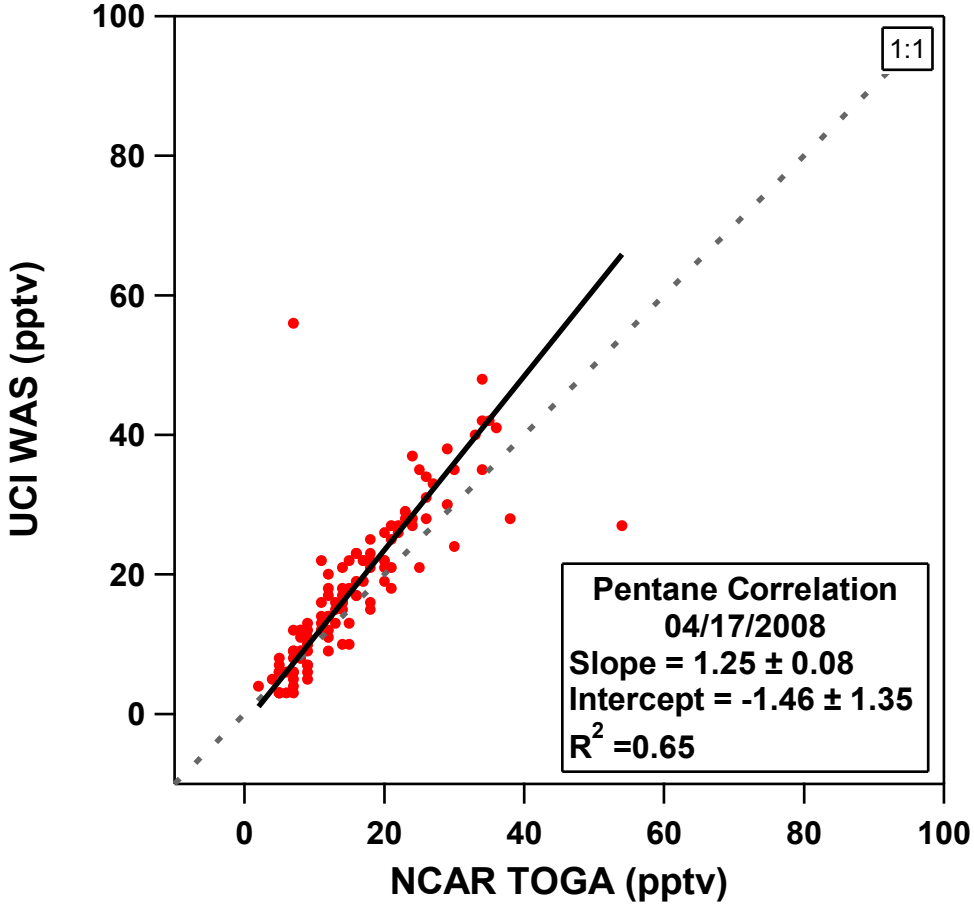

Methanol Correlation
04/17/2008
Slope = 0.83 ± 0.05
Intercept = 102.69 ± 48.81
R2 =0.59
1:1
NCAR PT-RMS (pptv)
NCAR TOGA (pptv)
0
500
1000
1500
2000
2500

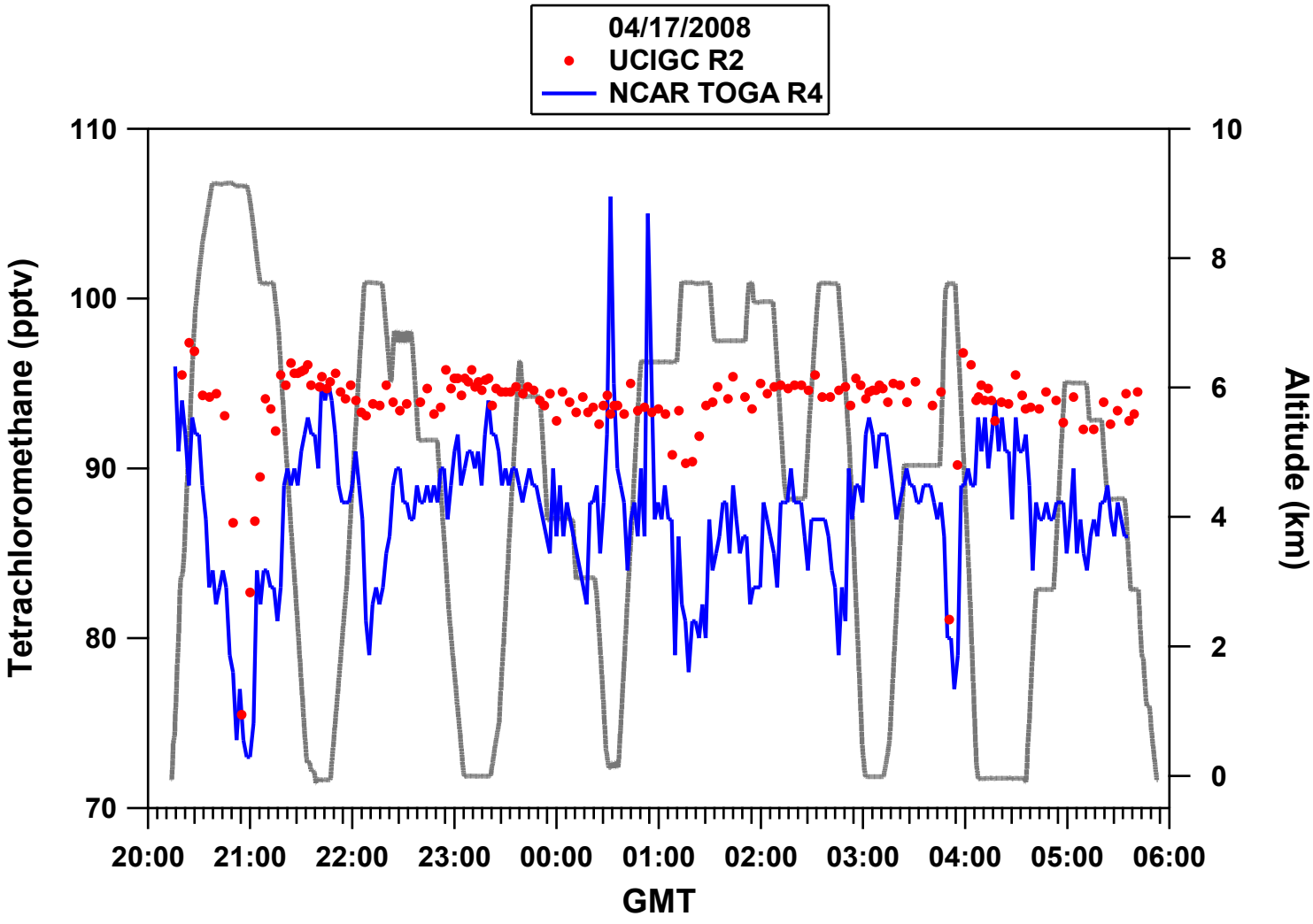

04/17/2008
UCIGC R2 1/2LOD=0.5
NCAR TOGA R4 1/2LOD=0.25
MTBE (pptv)
Altitude (km)
GMT
0
1
2
3
4
5
0
2
4
6
8
10
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00
04:00
05:00
06:00

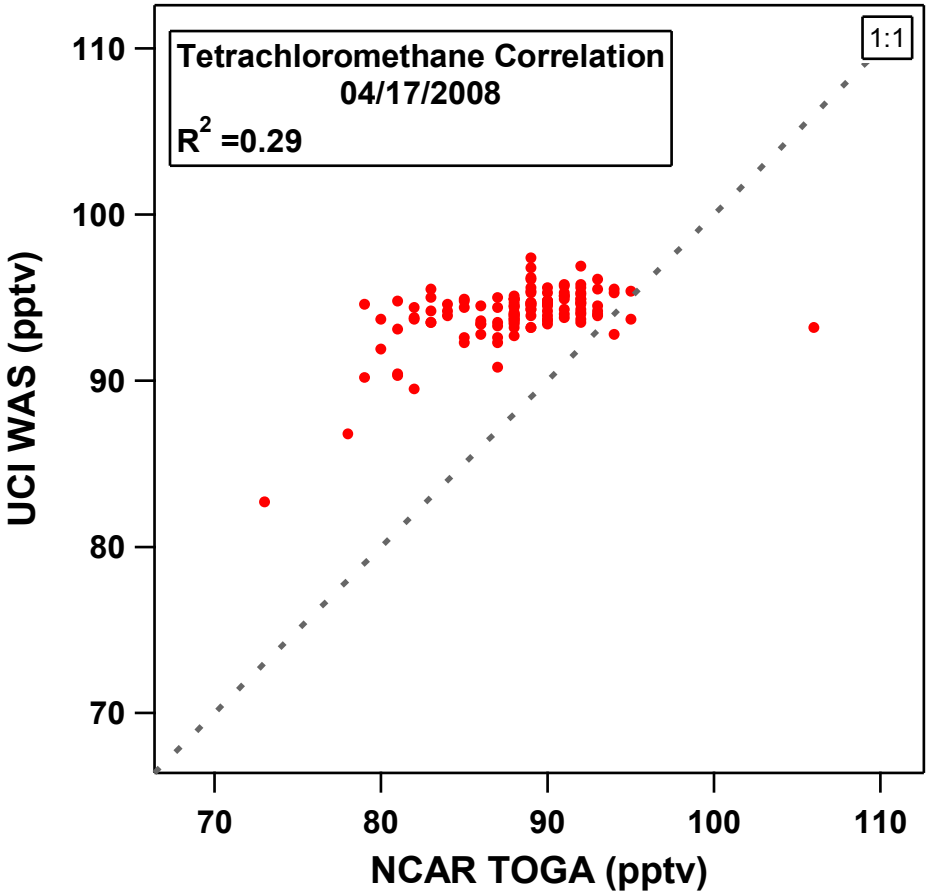

04/17/2008
UCIGC R2 1/2LOD=2.5
NCAR TOGA R4 1/2LOD=0.25
MVK (pptv)
Altitude (km)
GMT
0
10
20
30
40
50
0
2
4
6
8
10
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00
04:00
05:00
06:00

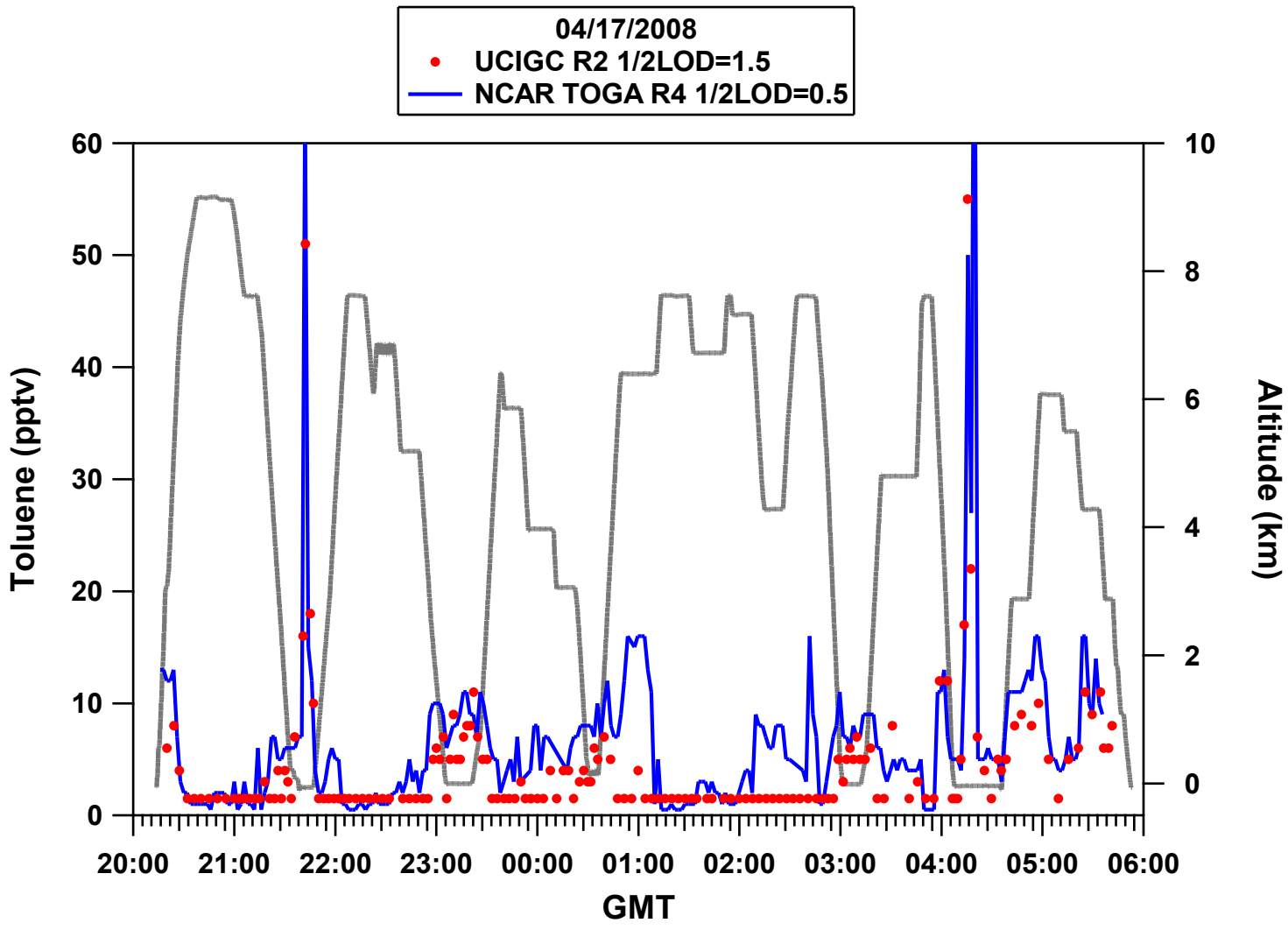

04/17/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
o-Xylene (pptv)
Altitude (km)
GMT
0
2
4
6
8
10
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00
04:00
05:00
06:00

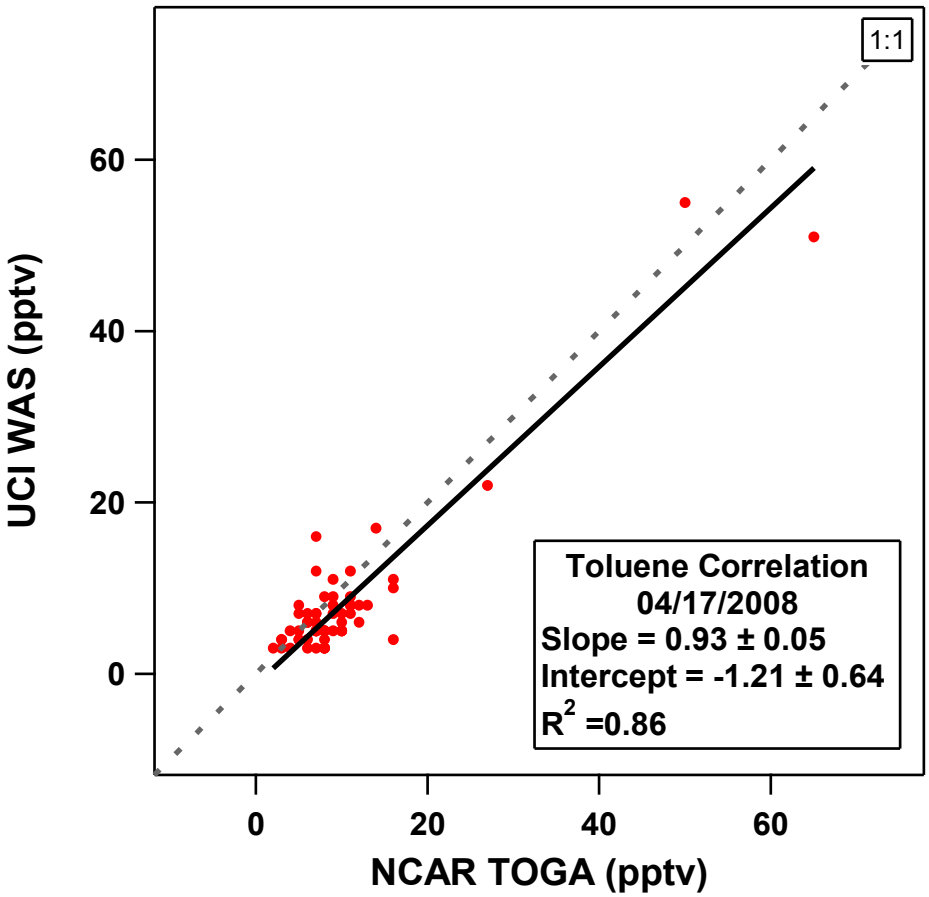

04/17/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
Pentane (pptv)
Altitude (km)
GMT
600
500
400
300
200
100
0
10
8
6
4
2
0
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00
04:00
05:00
06:00


100
80
60
40
20
0
UCI WAS (pptv)
0
20
40
60
80
100
NCAR TOGA (pptv)
1:1
Pentane Correlation
04/17/2008
Slope = 1.25 ± 0.08
Intercept = -1.46 ± 1.35
R2 =0.65


04/17/2008
UCIGC R2
NCAR TOGA R4
Tetrachloromethane (pptv)
Altitude (km)
GMT
110
100
90
80
70
10
8
6
4
2
0
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00
04:00
05:00
06:00


Tetrachloromethane Correlation
04/17/2008
R2 =0.29
1:1
UCI WAS (pptv)
NCAR TOGA (pptv)
70
80
90
100
110
70
80
90
100
110


04/17/2008
UCIGC R2 1/2LOD=1.5
NCAR TOGA R4 1/2LOD=0.5
Toluene (pptv)
Altitude (km)
GMT
60
50
40
30
20
10
0
10
8
6
4
2
0
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00
04:00
05:00
06:00


1:1
Toluene Correlation
04/17/2008
Slope = 0.93 ± 0.05
Intercept = -1.21 ± 0.64
R2 =0.86
UCI WAS (pptv)
NCAR TOGA (pptv)
0
20
40
60
0
20
40
60