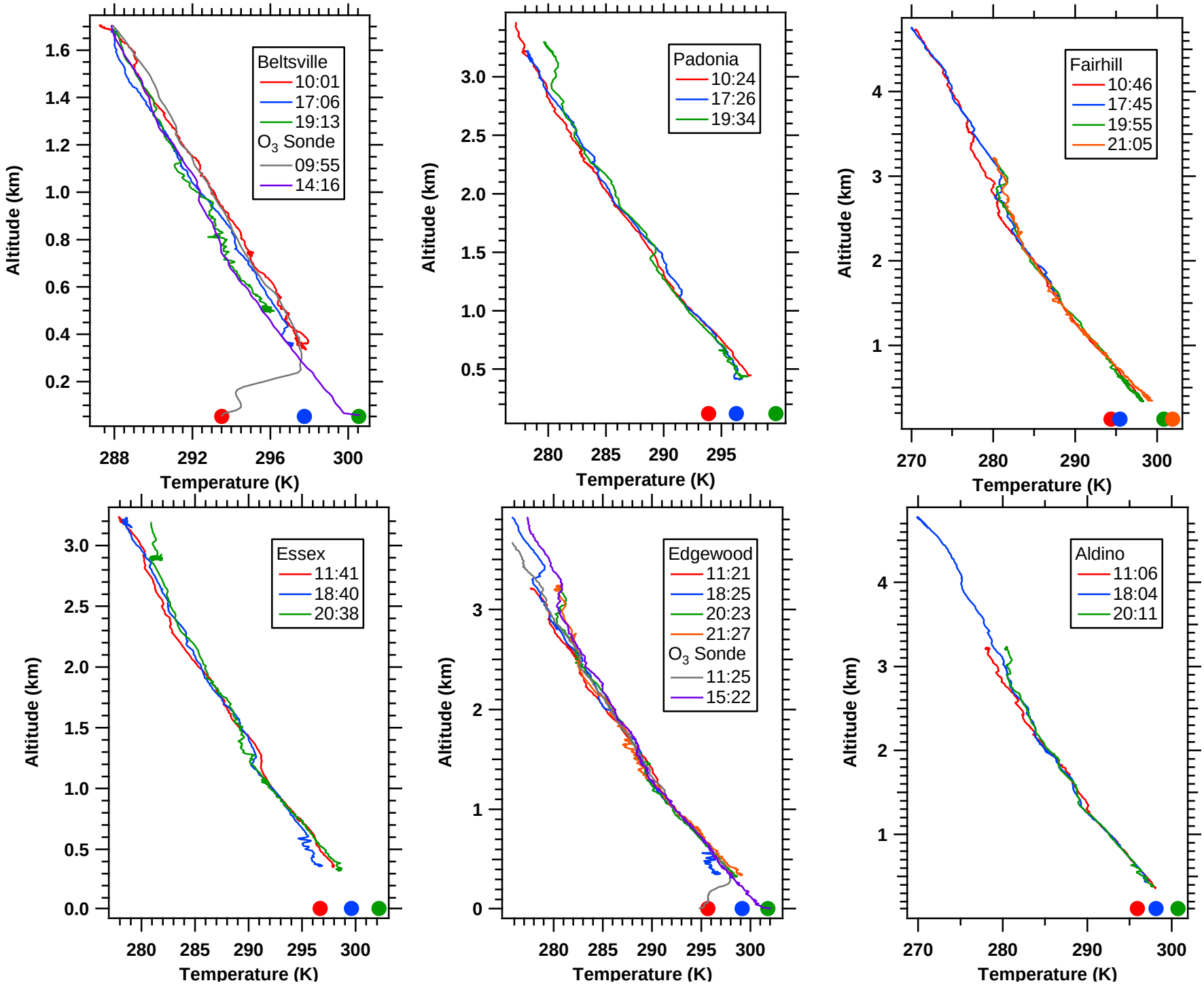
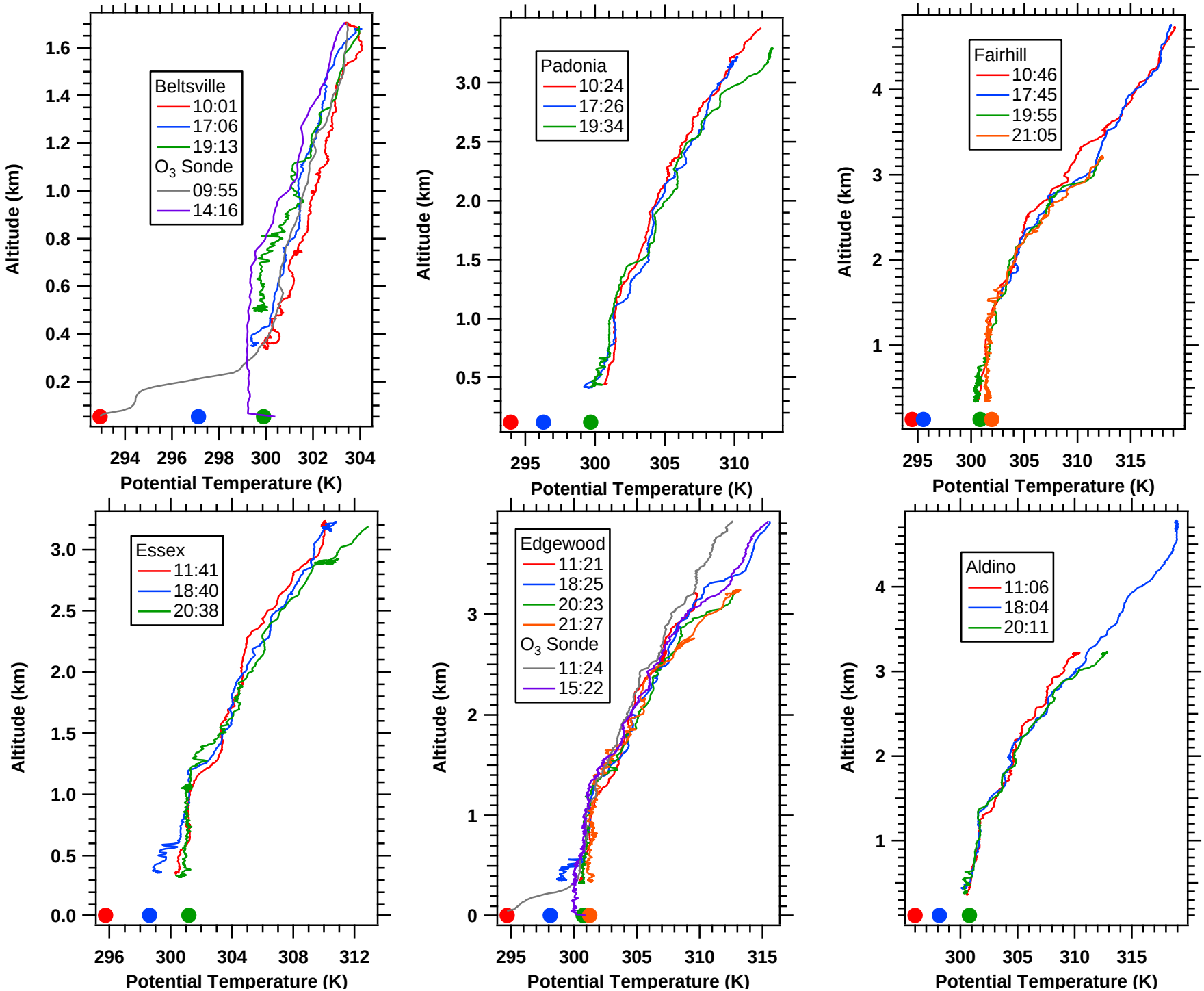
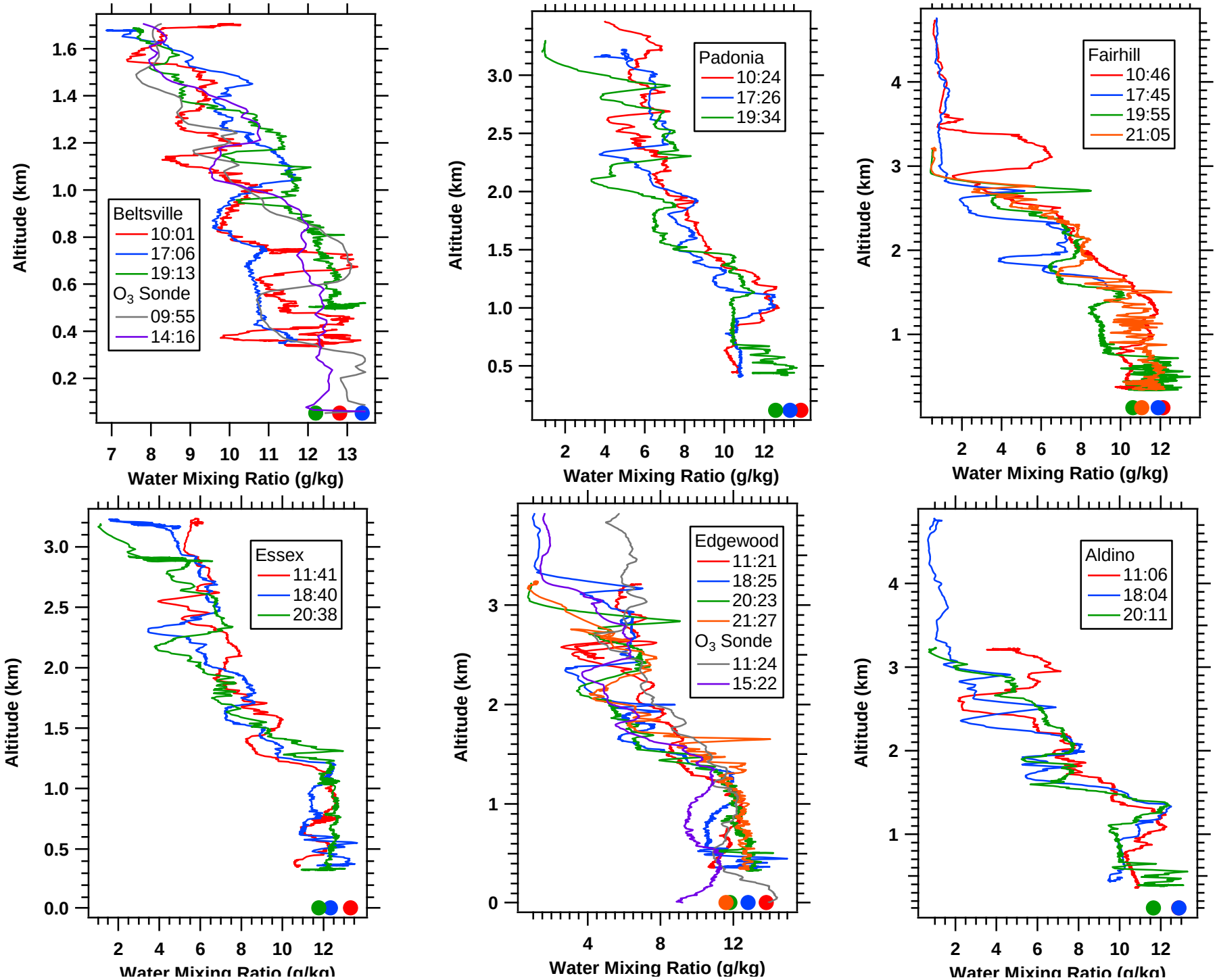
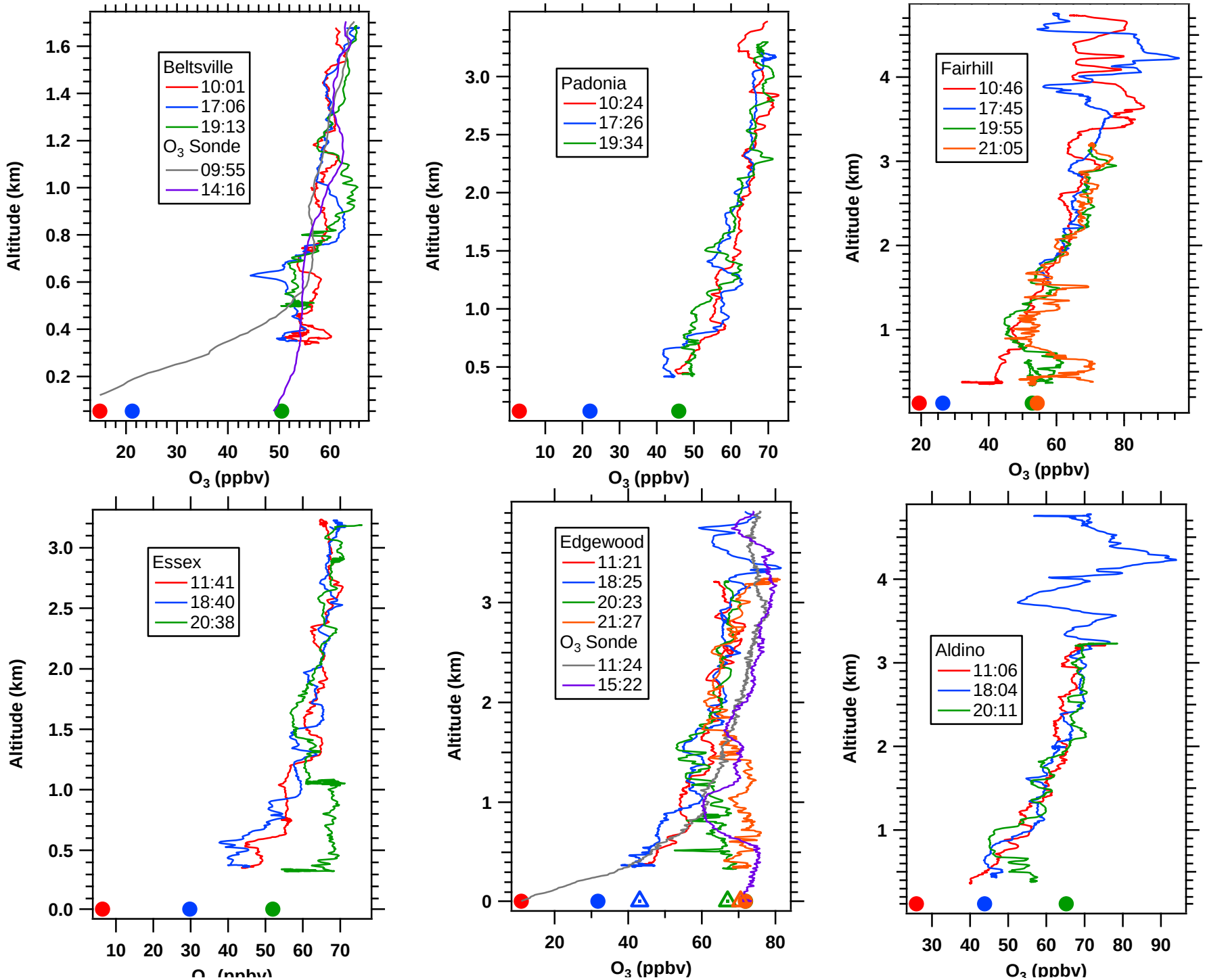
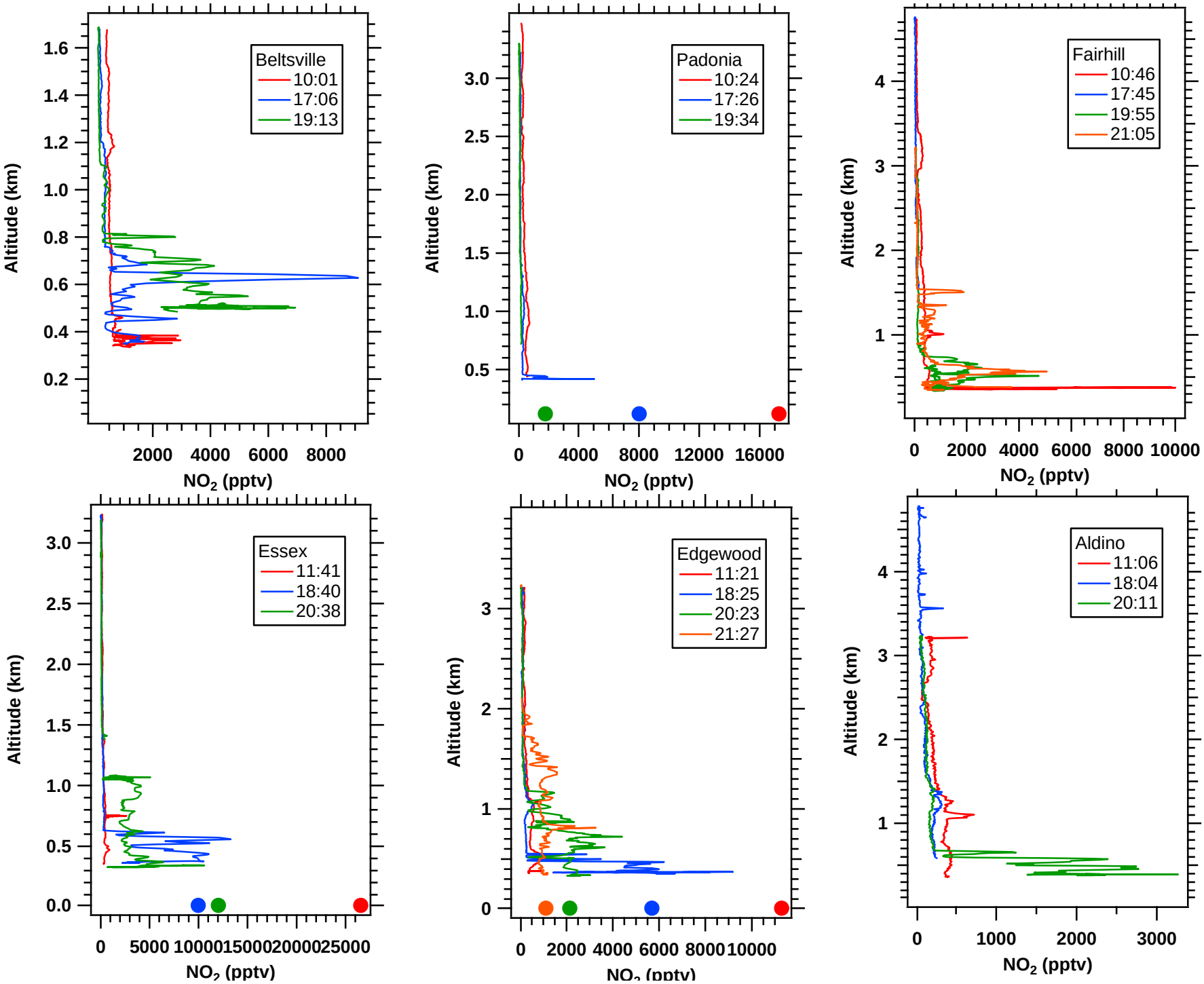
Preliminary Profile Data for 5 July

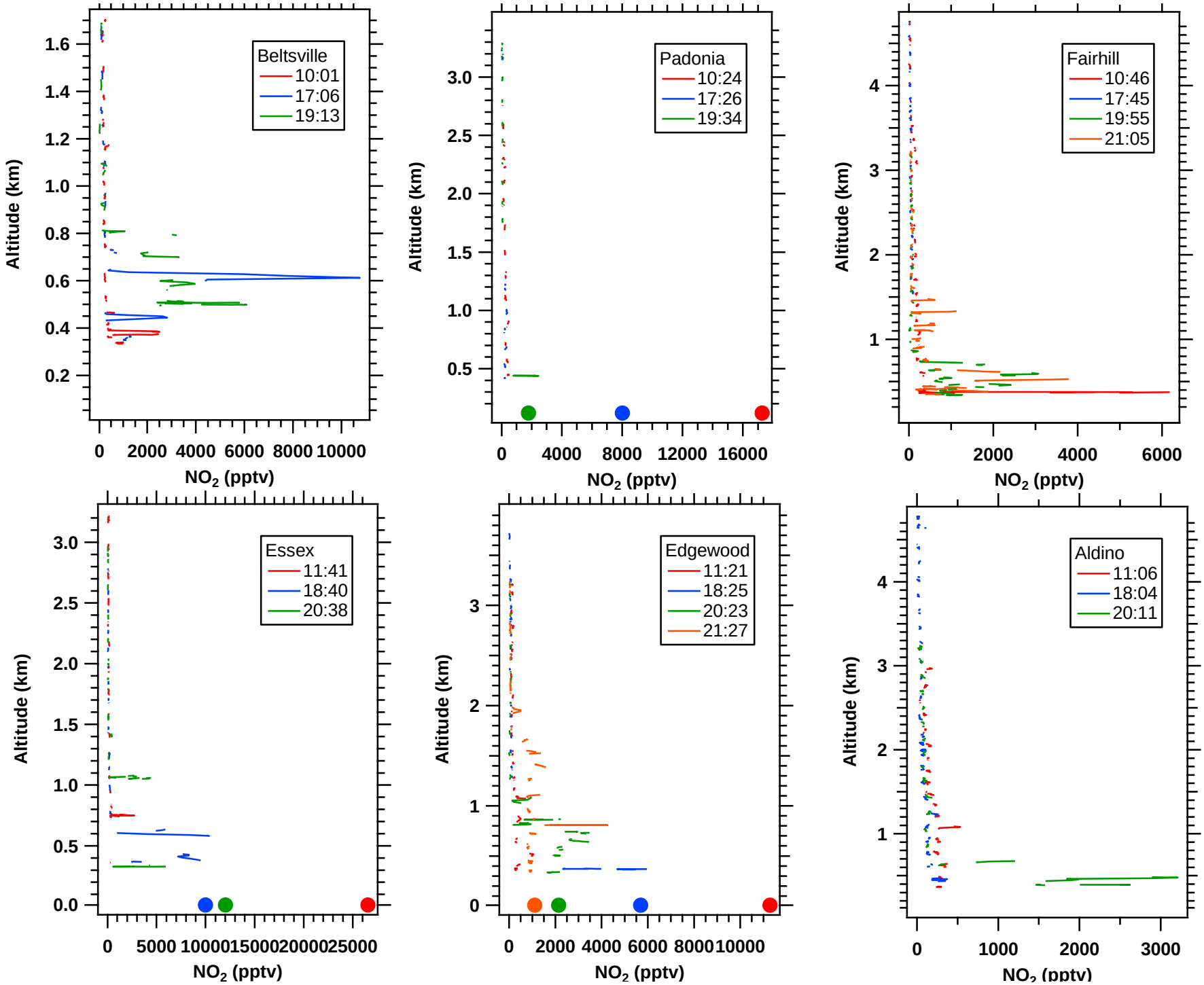

Beltsville
10:01
17:06
19:13
O3 Sonde
09:55
14:16
Altitude (km)
Temperature (K)
Padonia
10:24
17:26
19:34
Altitude (km)
Temperature (K)
Fairhill
10:46
17:45
19:55
21:05
Altitude (km)
Temperature (K)
Essex
11:41
18:40
20:38
Altitude (km)
Temperature (K)
Edgewood
11:21
18:25
20:23
21:27
O3 Sonde
11:25
15:22
Altitude (km)
Temperature (K)
Aldino
11:06
18:04
20:11
Altitude (km)
Temperature (K)

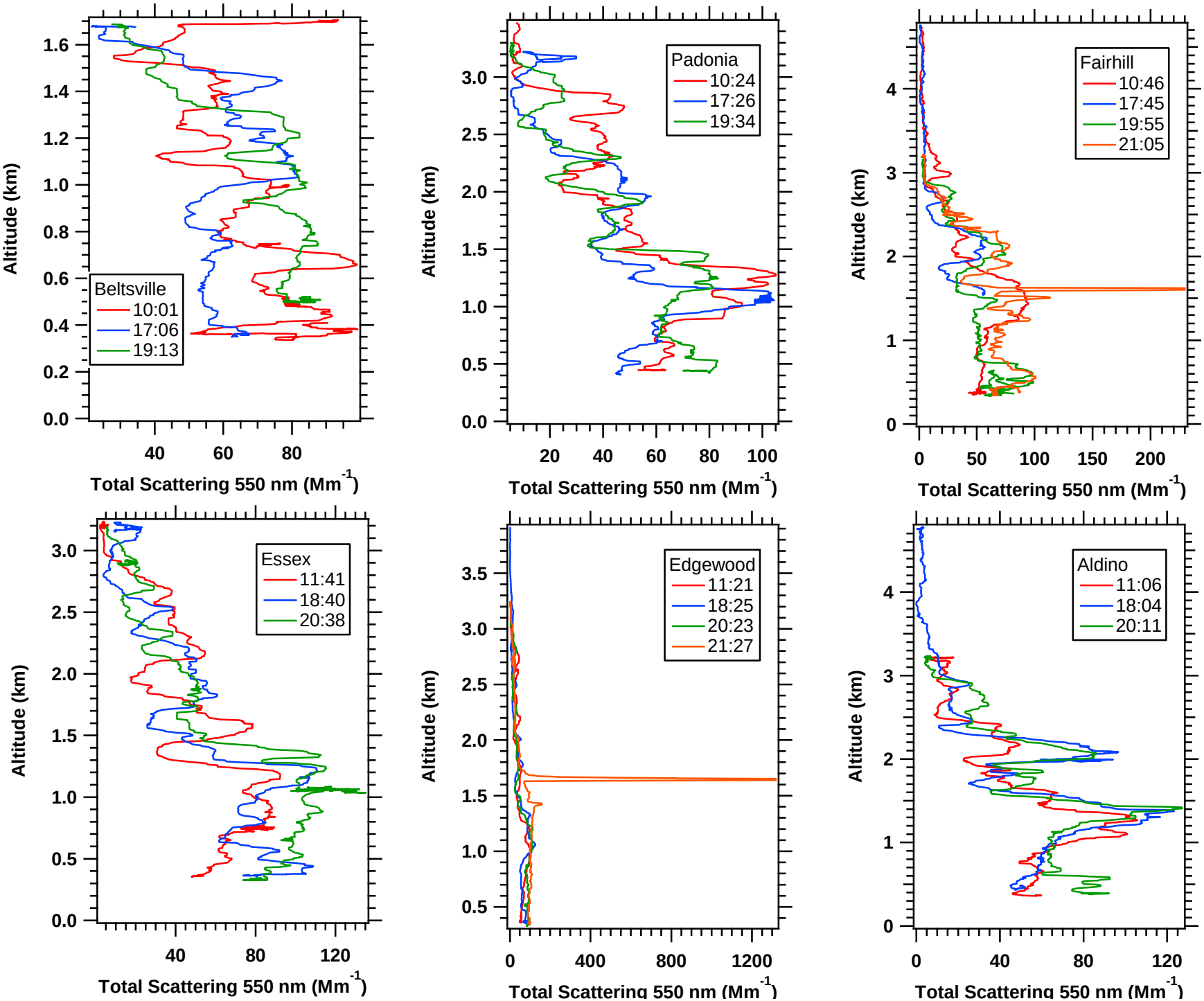

Beltsville
10:01
17:06
19:13
O3 Sonde
09:55
14:16
Altitude (km)
Potential Temperature (K)
Padonia
10:24
17:26
19:34
Altitude (km)
Potential Temperature (K)
Fairhill
10:46
17:45
19:55
21:05
Altitude (km)
Potential Temperature (K)
Essex
11:41
18:40
20:38
Altitude (km)
Potential Temperature (K)
Edgewood
11:21
18:25
20:23
21:27
O3 Sonde
11:24
15:22
Altitude (km)
Potential Temperature (K)
Aldino
11:06
18:04
20:11
Altitude (km)
Potential Temperature (K)

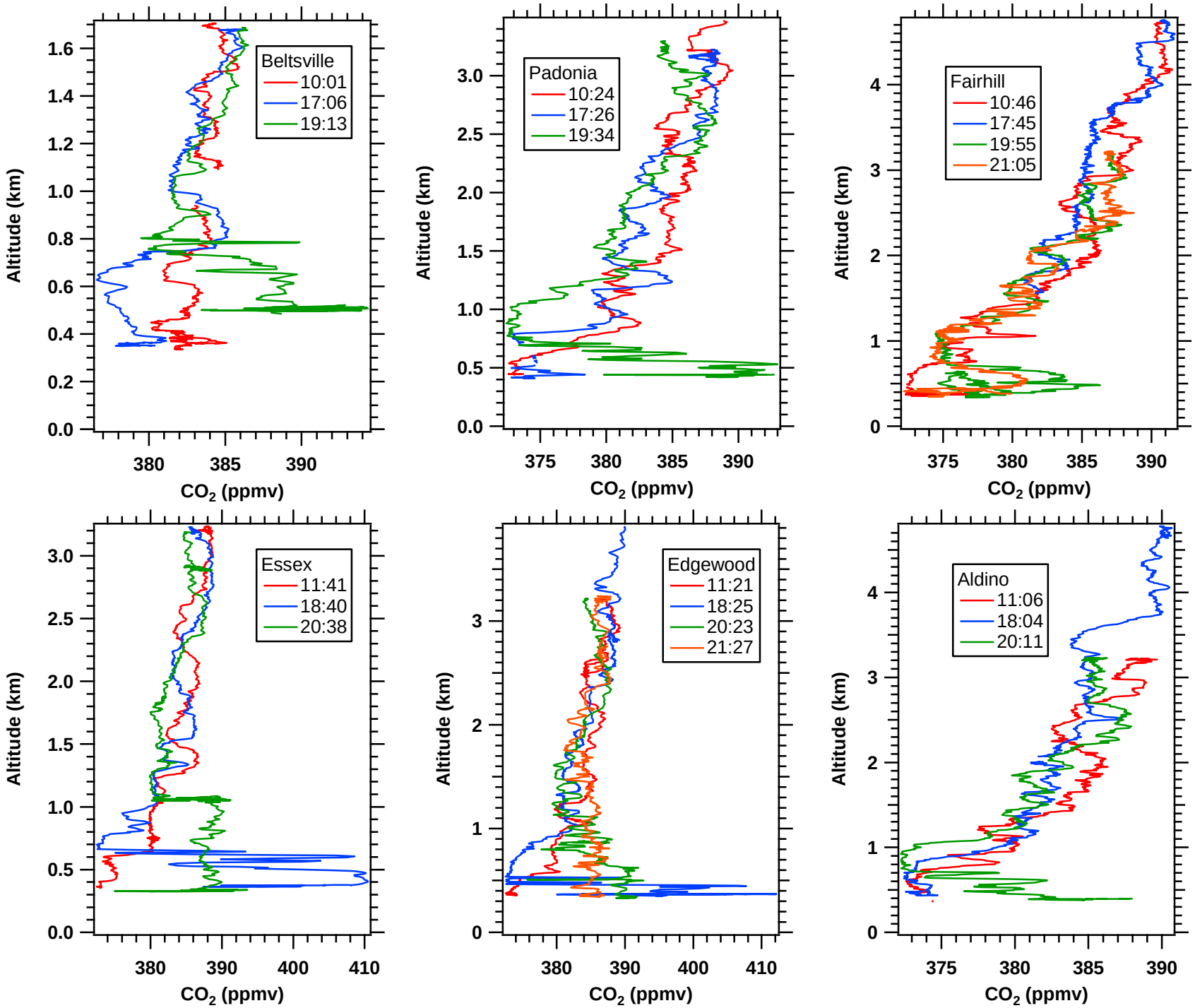

Beltsville
10:01
17:06
19:13
O3 Sonde
09:55
14:16
Altitude (km)
Water Mixing Ratio (g/kg)
Padonia
10:24
17:26
19:34
Altitude (km)
Water Mixing Ratio (g/kg)
Fairhill
10:46
17:45
19:55
21:05
Altitude (km)
Water Mixing Ratio (g/kg)
Essex
11:41
18:40
20:38
Altitude (km)
Water Mixing Ratio (g/kg)
Edgewood
11:21
18:25
20:23
21:27
O3 Sonde
11:24
15:22
Altitude (km)
Water Mixing Ratio (g/kg)
Aldino
11:06
18:04
20:11
Altitude (km)
Water Mixing Ratio (g/kg)

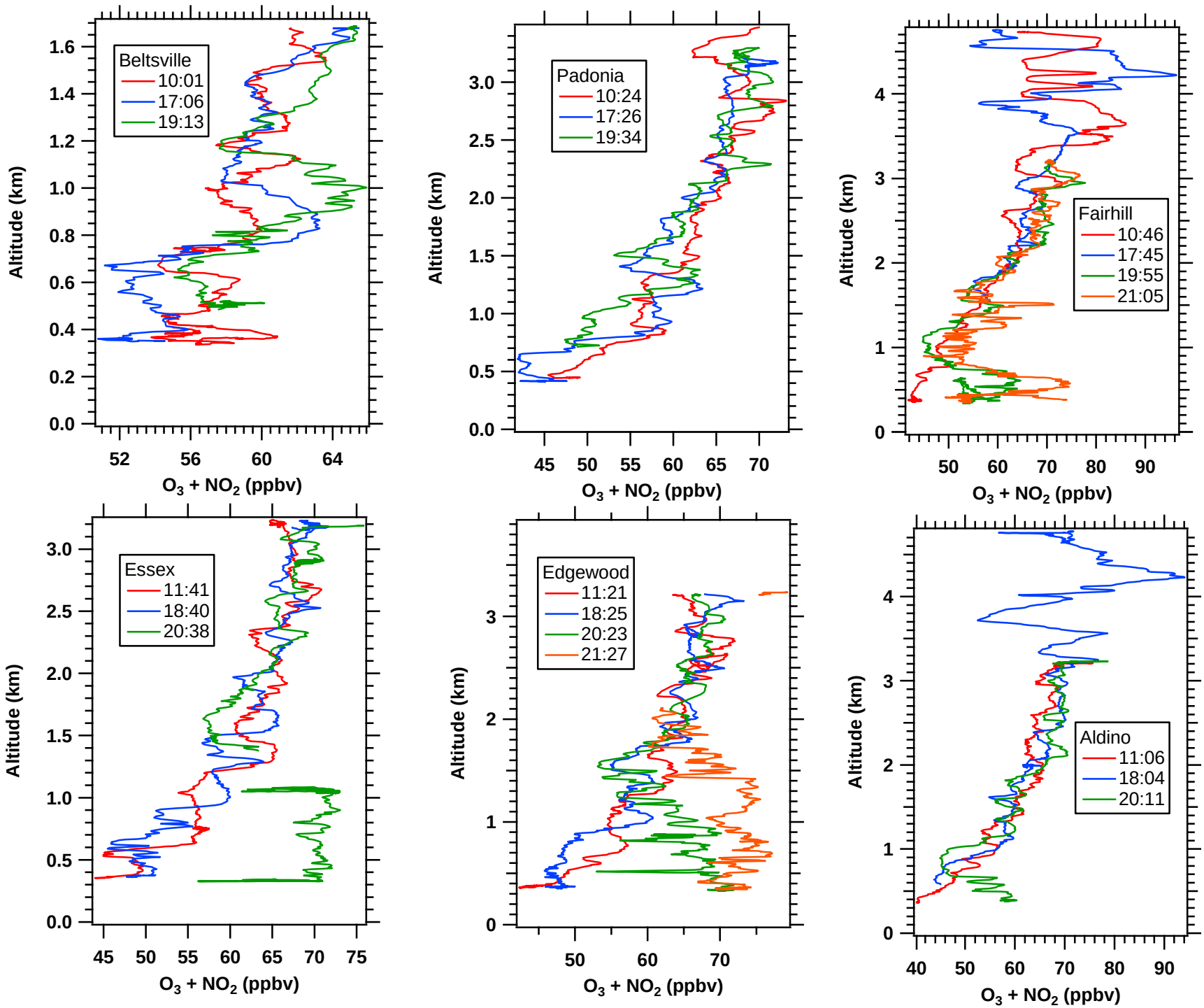

Beltsville
10:01
17:06
19:13
O3 Sonde
09:55
14:16
Altitude (km)
O3 (ppbv)
Padonia
10:24
17:26
19:34
Altitude (km)
O3 (ppbv)
Fairhill
10:46
17:45
19:55
21:05
Altitude (km)
O3 (ppbv)
Essex
11:41
18:40
20:38
Altitude (km)
Edgewood
11:21
18:25
20:23
21:27
O3 Sonde
11:24
15:22
Altitude (km)
O3 (ppbv)
Aldino
11:06
18:04
20:11
Altitude (km)
O3 (ppbv)

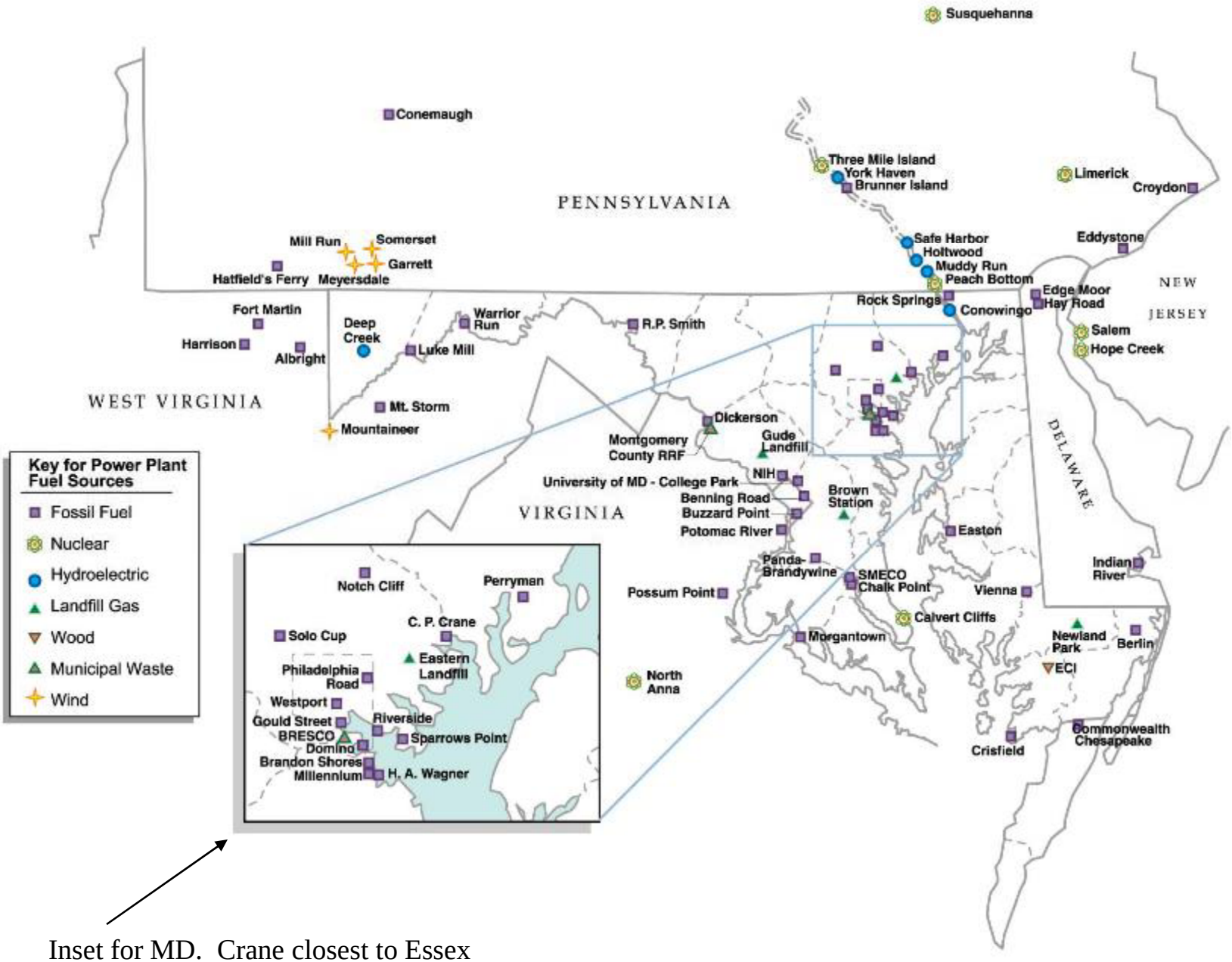

Beltsville
10:01
17:06
19:13
Altitude (km)
NO2 (pptv)
Padonia
10:24
17:26
19:34
Altitude (km)
NO2 (pptv)
Fairhill
10:46
17:45
19:55
21:05
Altitude (km)
NO2 (pptv)
Essex
11:41
18:40
20:38
Altitude (km)
NO2 (pptv)
Edgewood
11:21
18:25
20:23
21:27
Altitude (km)
NO2 (pptv)
Aldino
11:06
18:04
20:11
Altitude (km)
NO2 (pptv)


Beltsville
10:01
17:06
19:13
Altitude (km)
NO2 (pptv)
Padonia
10:24
17:26
19:34
Altitude (km)
NO2 (pptv)
Fairhill
10:46
17:45
19:55
21:05
Altitude (km)
NO2 (pptv)
Essex
11:41
18:40
20:38
Altitude (km)
NO2 (pptv)
Edgewood
11:21
18:25
20:23
21:27
Altitude (km)
NO2 (pptv)
Aldino
11:06
18:04
20:11
Altitude (km)
NO2 (pptv)

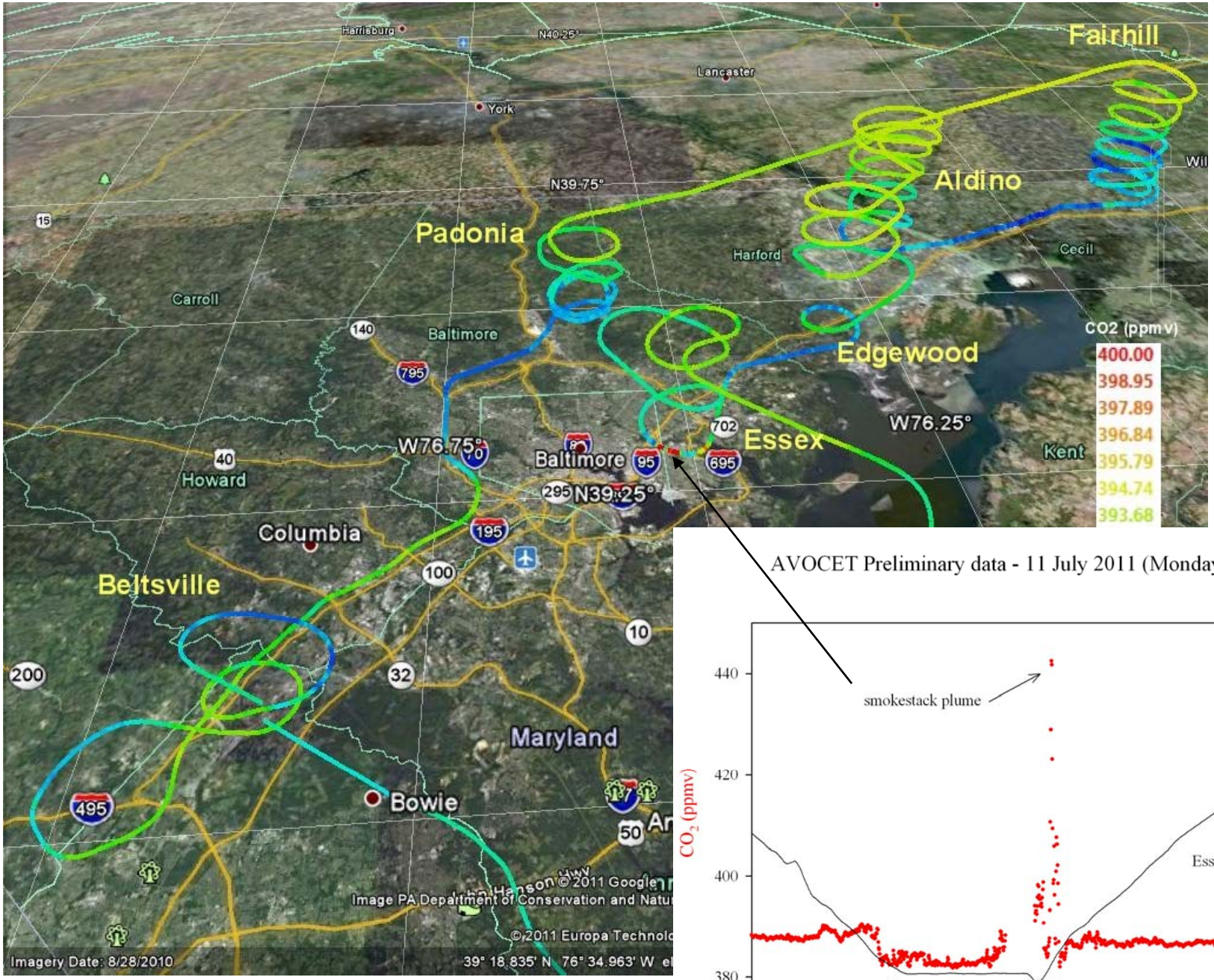

Beltsville
10:01
17:06
19:13
Altitude (km)
Total Scattering 550 nm (Mm-1)
Padonia
10:24
17:26
19:34
Altitude (km)
Total Scattering 550 nm (Mm-1)
Fairhill
10:46
17:45
19:55
21:05
Altitude (km)
Total Scattering 550 nm (Mm-1)
Essex
11:41
18:40
20:38
Altitude (km)
Total Scattering 550 nm (Mm-1)
Edgewood
11:21
18:25
20:23
21:27
Altitude (km)
Total Scattering 550 nm (Mm-1)
Aldino
11:06
18:04
20:11
Altitude (km)
Total Scattering 550 nm (Mm-1)

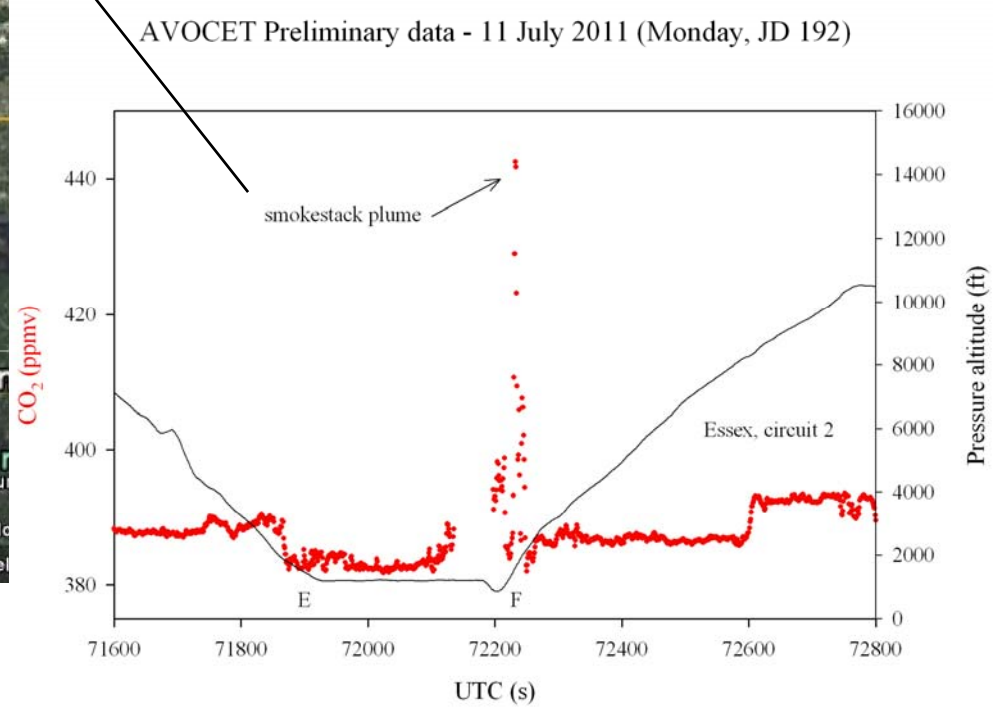

Beltsville
10:01
17:06
19:13
Padonia
10:24
17:26
19:34
Fairhill
10:46
17:45
19:55
21:05
Essex
11:41
18:40
20:38
Edgewood
11:21
18:25
20:23
21:27
Aldino
11:06
18:04
20:11
Altitude (km)
CO2 (ppmv)


Beltsville
10:01
17:06
19:13
Padonia
10:24
17:26
19:34
Fairhill
10:46
17:45
19:55
21:05
Essex
11:41
18:40
20:38
Edgewood
11:21
18:25
20:23
21:27
Aldino
11:06
18:04
20:11
Altitude (km)
O3 + NO2 (ppbv)

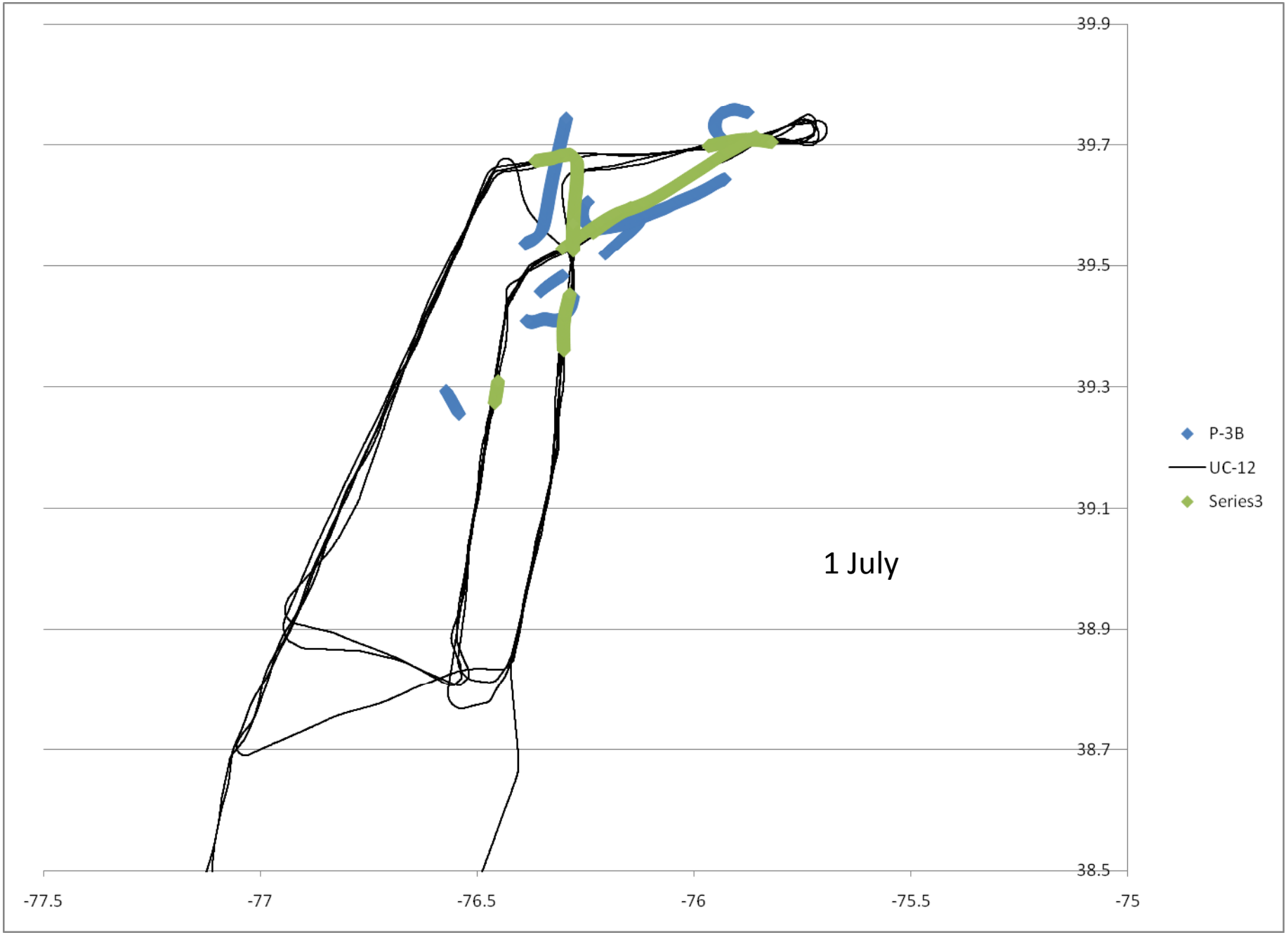


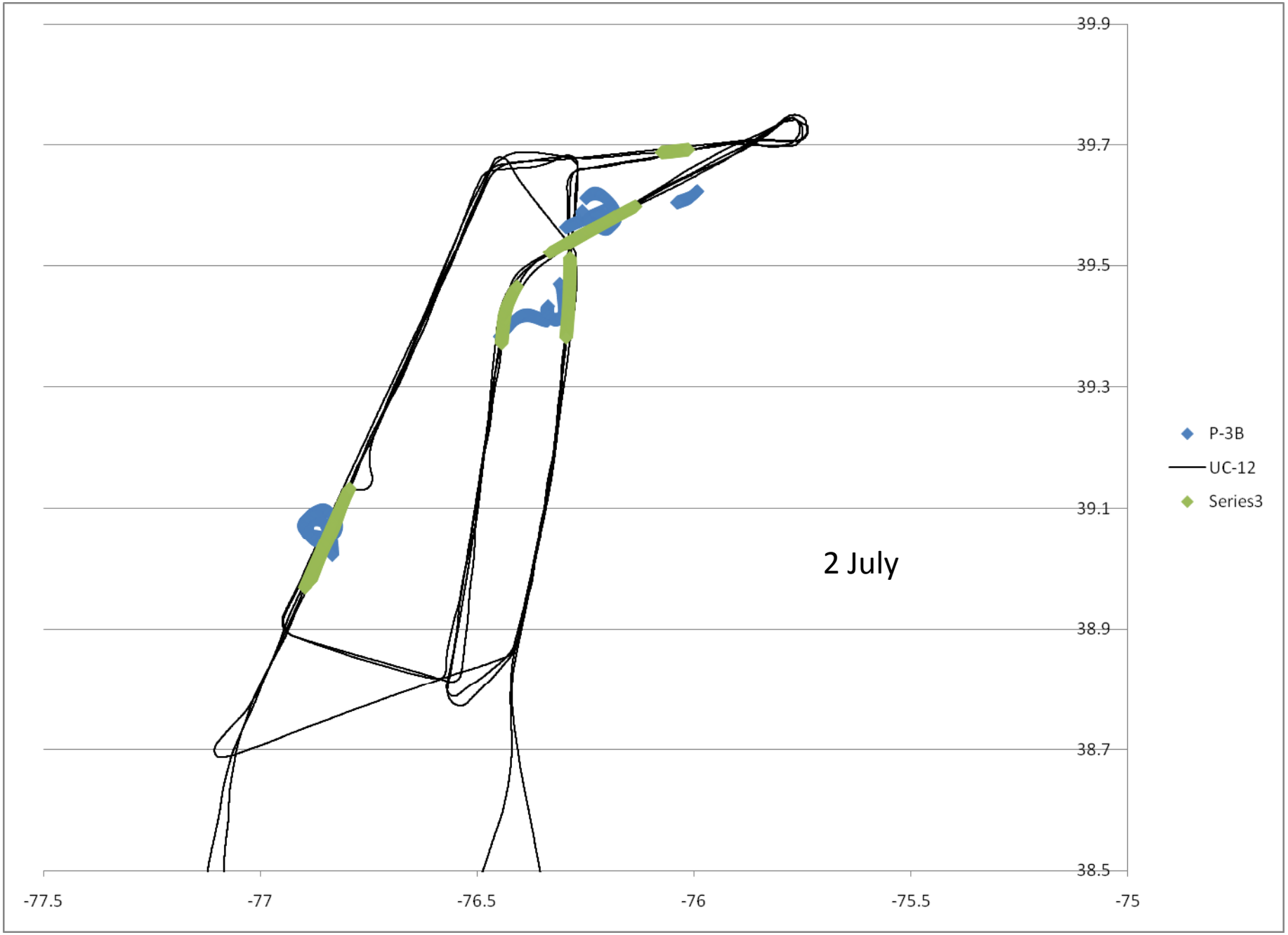
Inset for MD. Crane closest to Essex

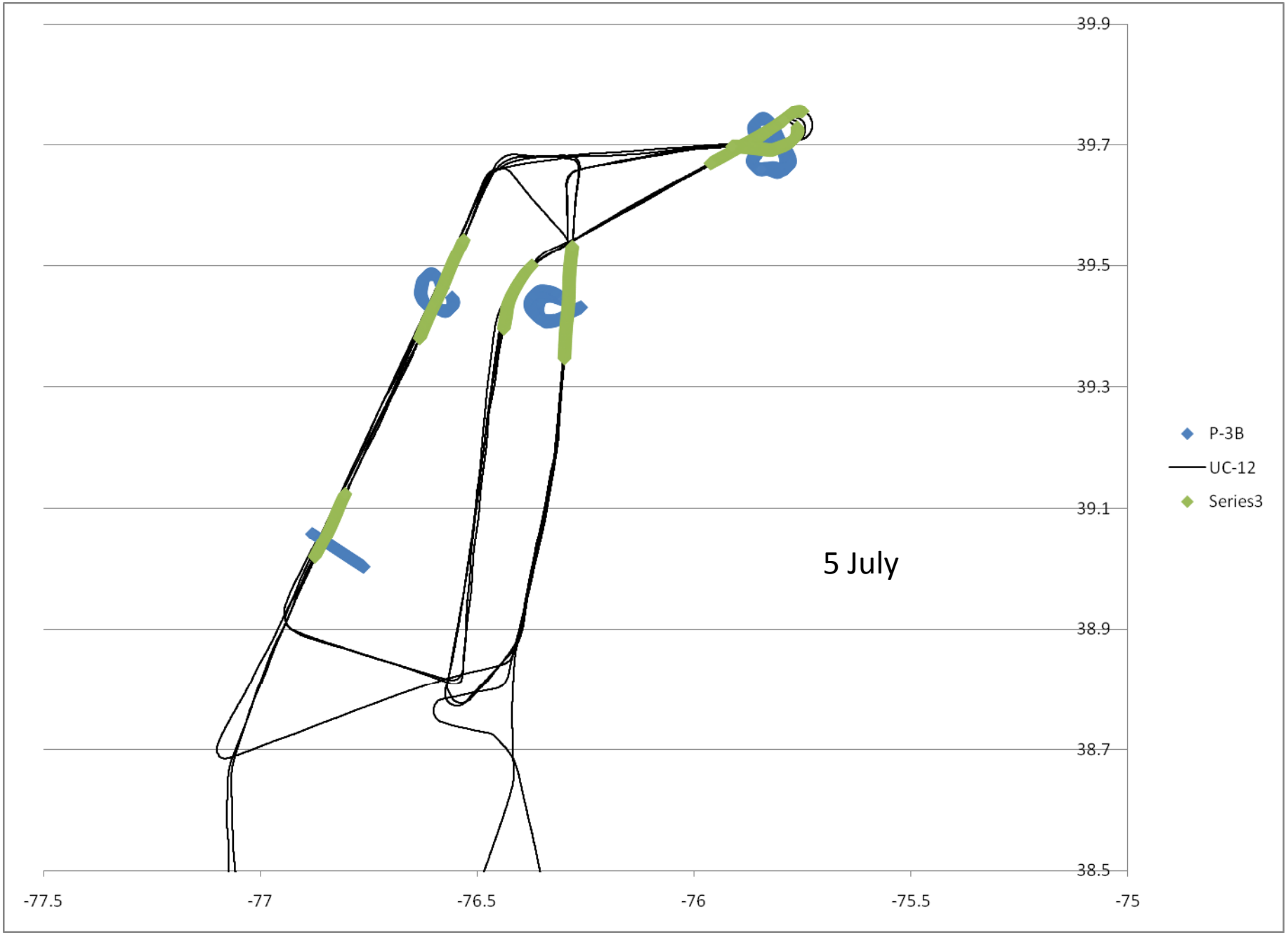

Fairhill
Aldino
Padonia
Edgewood
Essex
Beltsville
Harrisburg
Lancaster
York
Carroll
Baltimore
Harford
Cecil
Howard
Columbia
Kent
Maryland
Bowie
N40.25°
N39.75°
N39.25°
W76.75°
W76.25°
CO2 (ppmv)
400.00
398.95
397.89
396.84
395.79
394.74
393.68
Image PA Department of Conservation and Natur
© 2011 Google
© 2011 Europa Technolo
Imagery Date: 8/28/2010
39° 18.835' N 76° 34.963' W


AVOCET Preliminary data - 11 July 2011 (Monday, JD 192)
smokestack plume
Essex, circuit 2
E
F
CO_2 (ppmv)
Pressure altitude (ft)
UTC (s)
380
400
420
440
0
2000
4000
6000
8000
10000
12000
14000
16000
71600
71800
72000
72200
72400
72600
72800

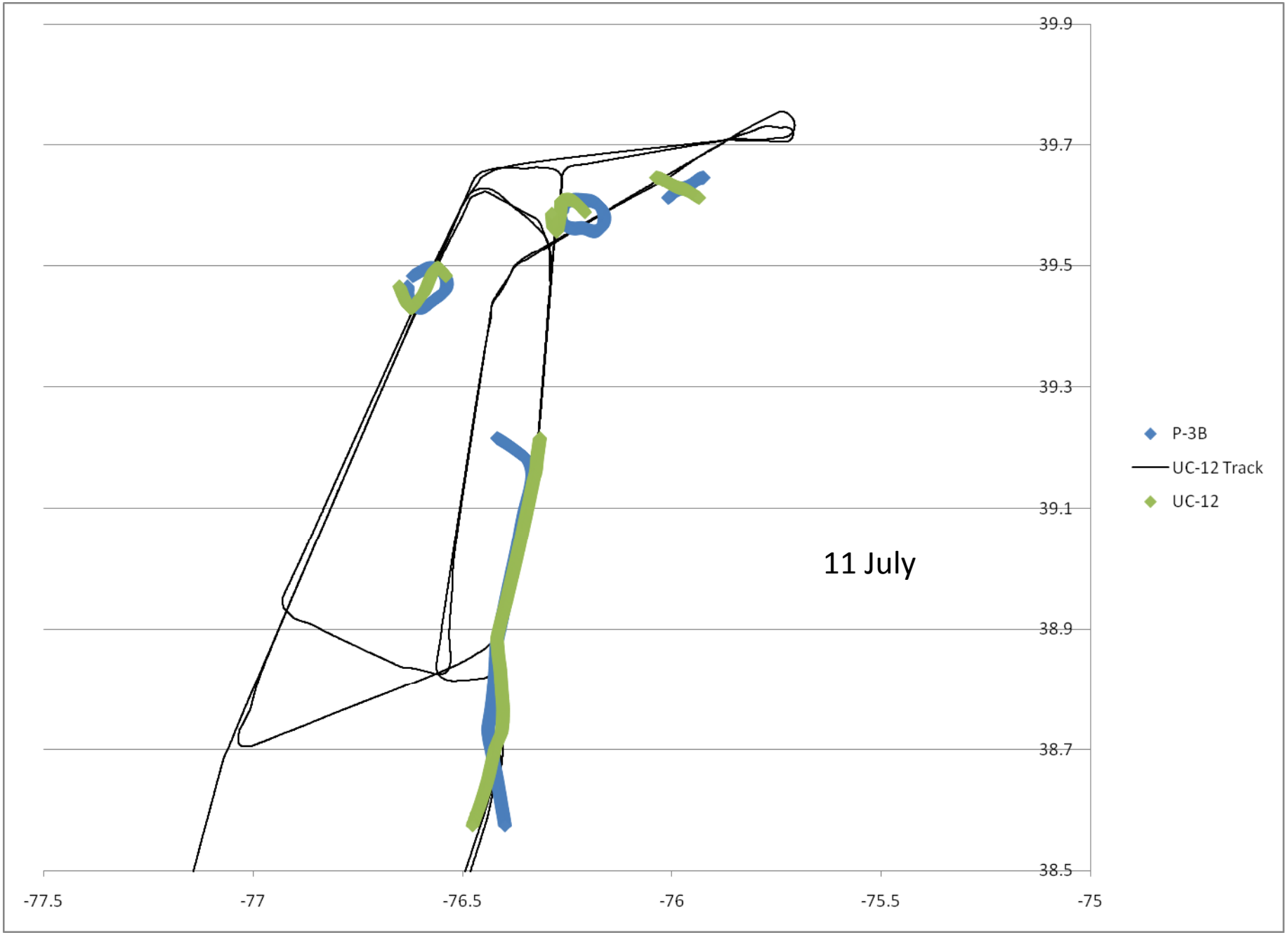
Assessment of aircraft coincidence within 10 km during flights


39.9
39.7
39.5
39.3
39.1
38.9
38.7
38.5
-77.5
-77
-76.5
-76
-75.5
-75
1 July
P-3B
UC-12
Series3


39.9
39.7
39.5
39.3
39.1
38.9
38.7
38.5
-77.5
-77
-76.5
-76
-75.5
-75
2 July
P-3B
UC-12
Series3


39.9
39.7
39.5
39.3
39.1
38.9
38.7
38.5
-77.5
-77
-76.5
-76
-75.5
-75
5 July
P-3B
UC-12
Series3

39.9
39.7
39.5
39.3
39.1
38.9
38.7
38.5
-77.5
-77
-76.5
-76
-75.5
-75
10 July
P-3B
UC-12
Series3


39.9
39.7
39.5
39.3
39.1
38.9
38.7
38.5
-77.5
-77
-76.5
-76
-75.5
-75
11 July
P-3B
UC-12 Track
UC-12