Meteorological Modeling Appendix C

Assorted Graphics

2000 BPA Episodes

August 12 – 13

Bright Dornblaser, TCEQ

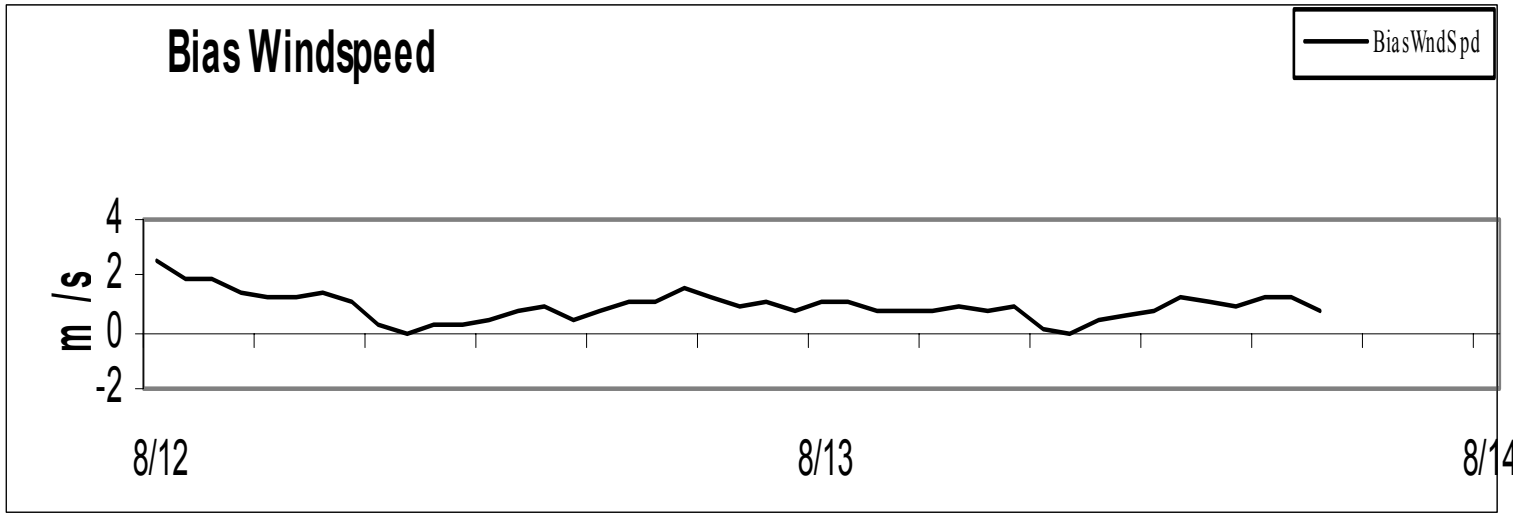
August 30 – September 1

John Nielsen-Gammon, Texas A&M

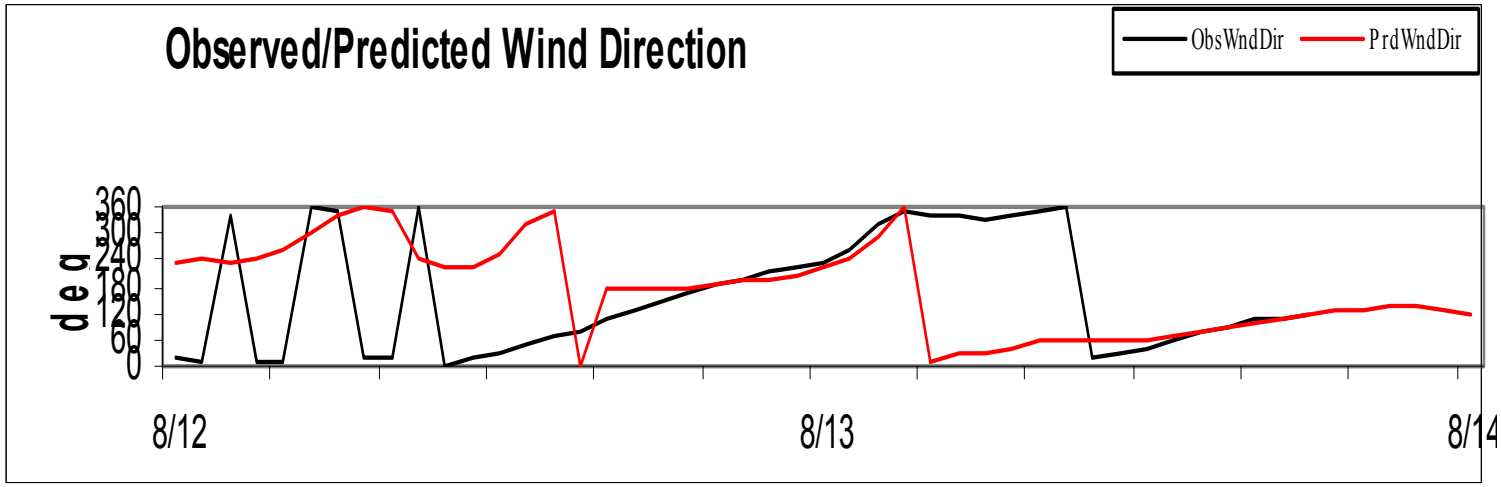
September 2, 4, 6

Craig Tremback, ATMET

TCEQ HGBPA Statistics



TCEQ HGPBA Statistics



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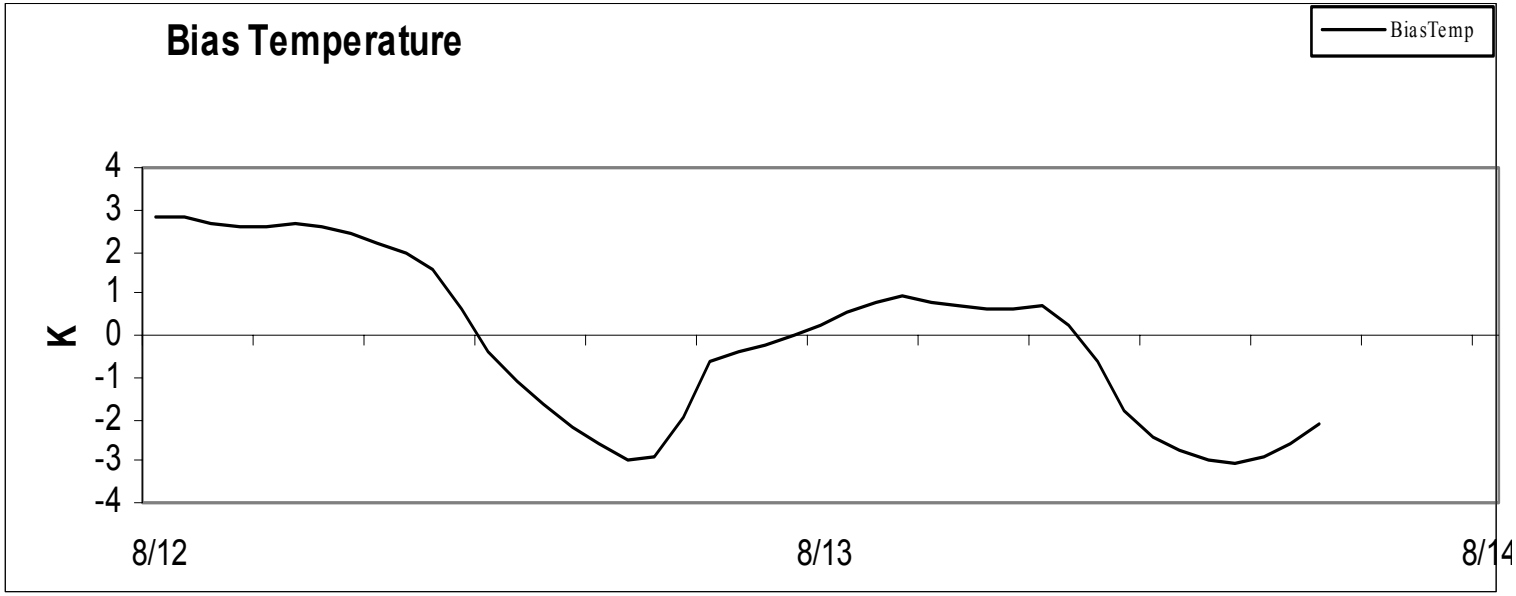
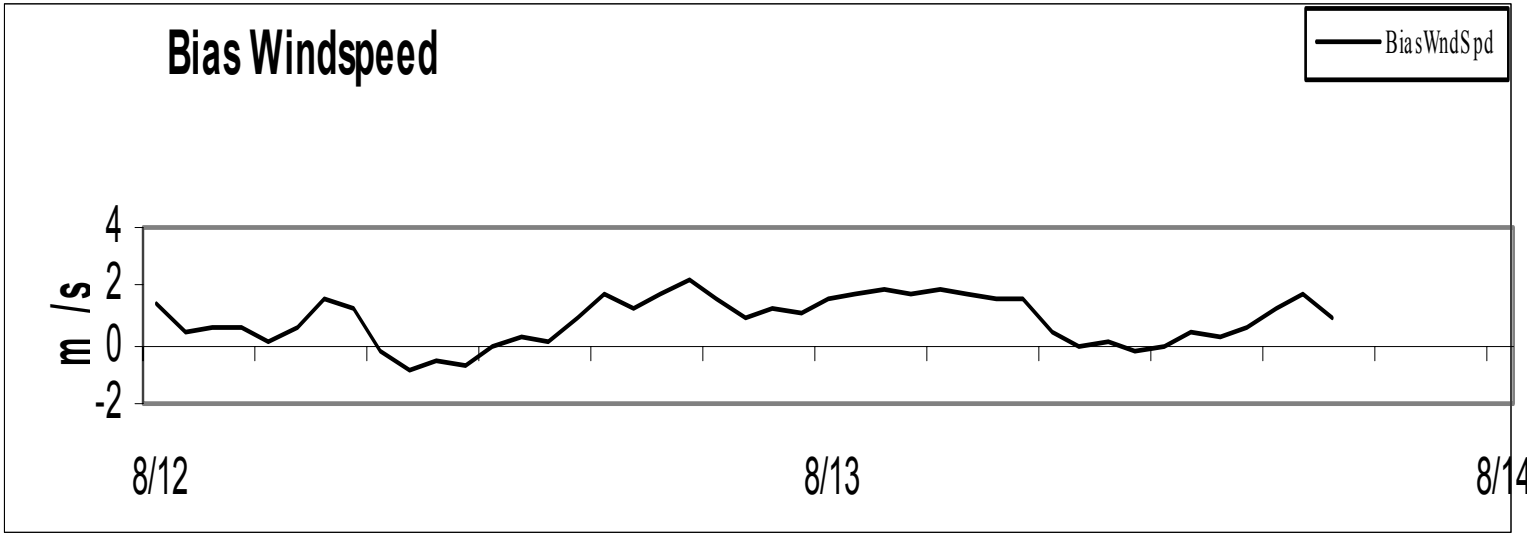
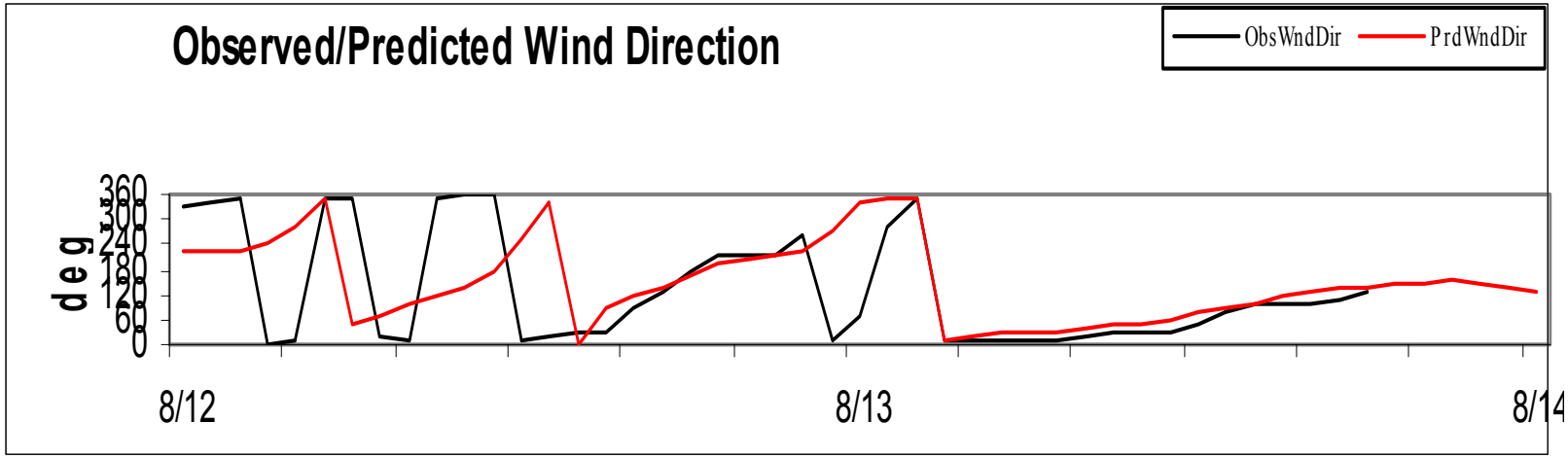


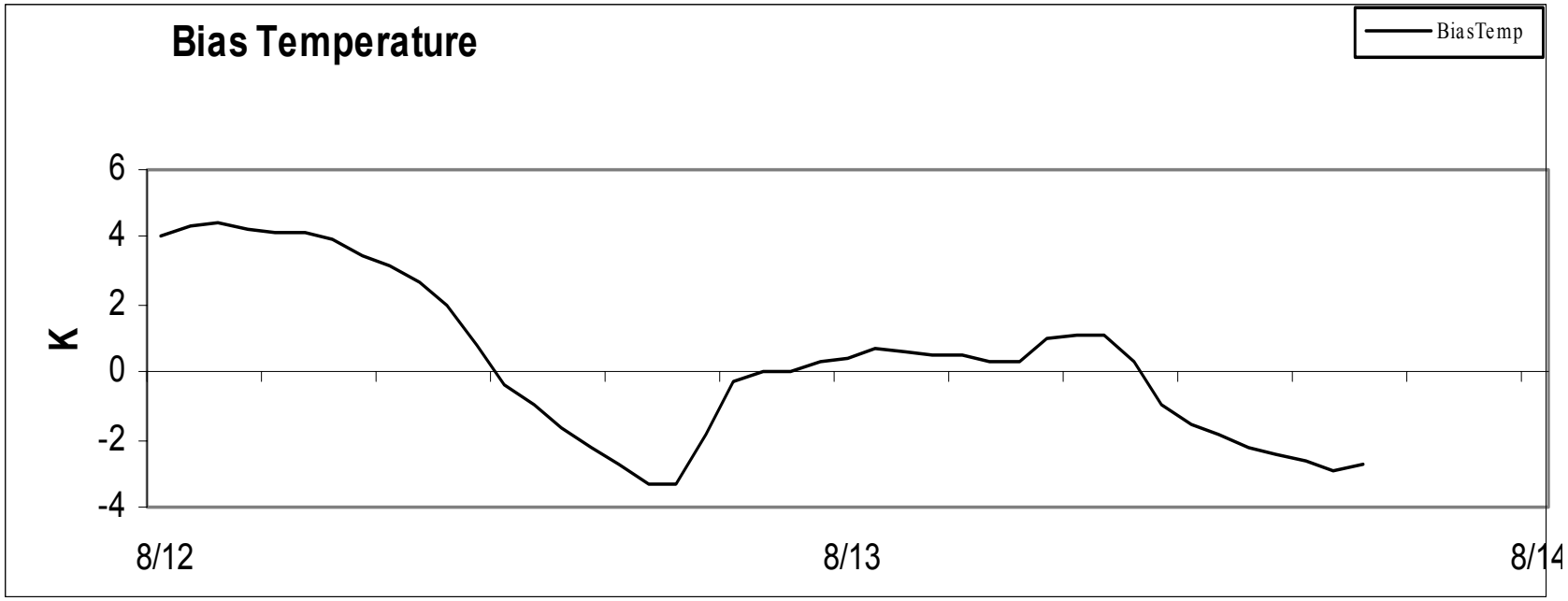
TCEQ BPA Statistics



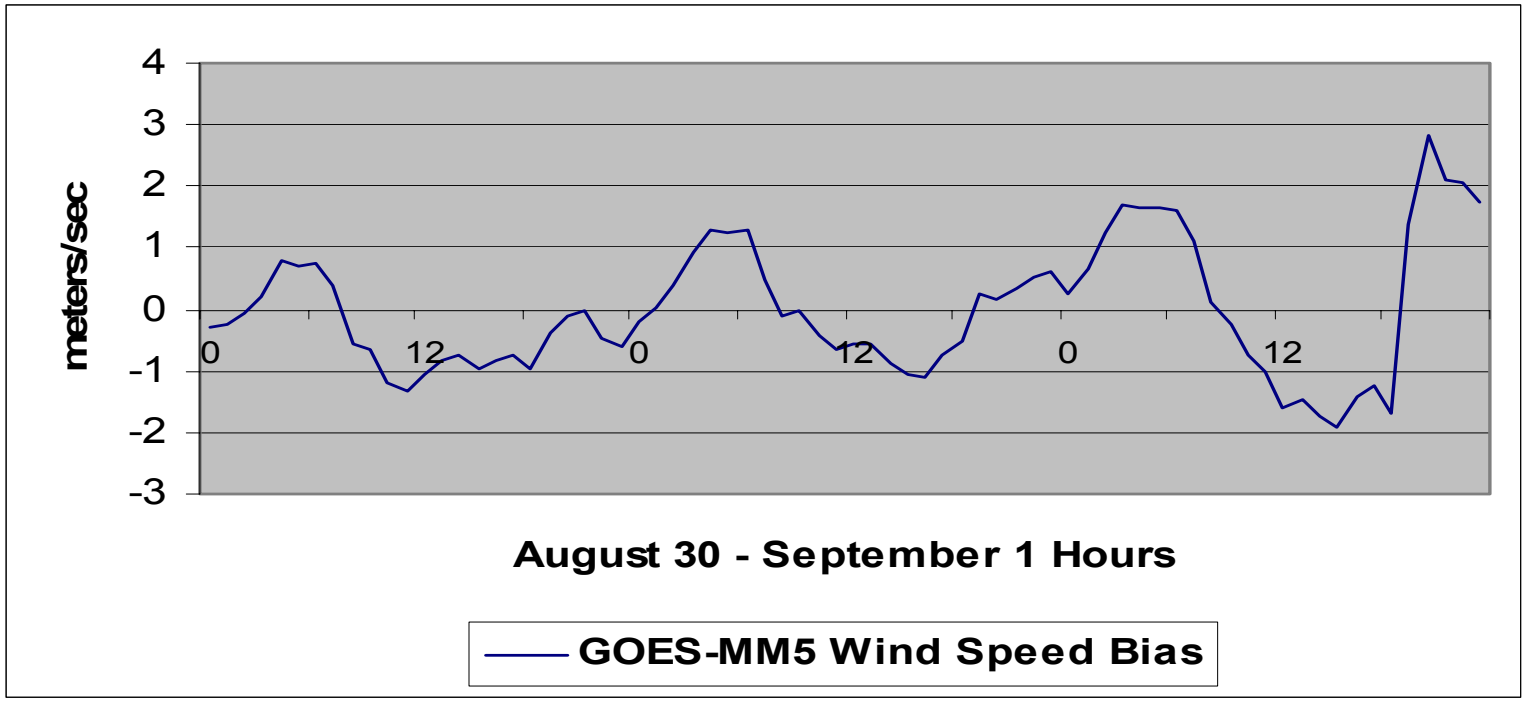
TCEQ BPA Statistics



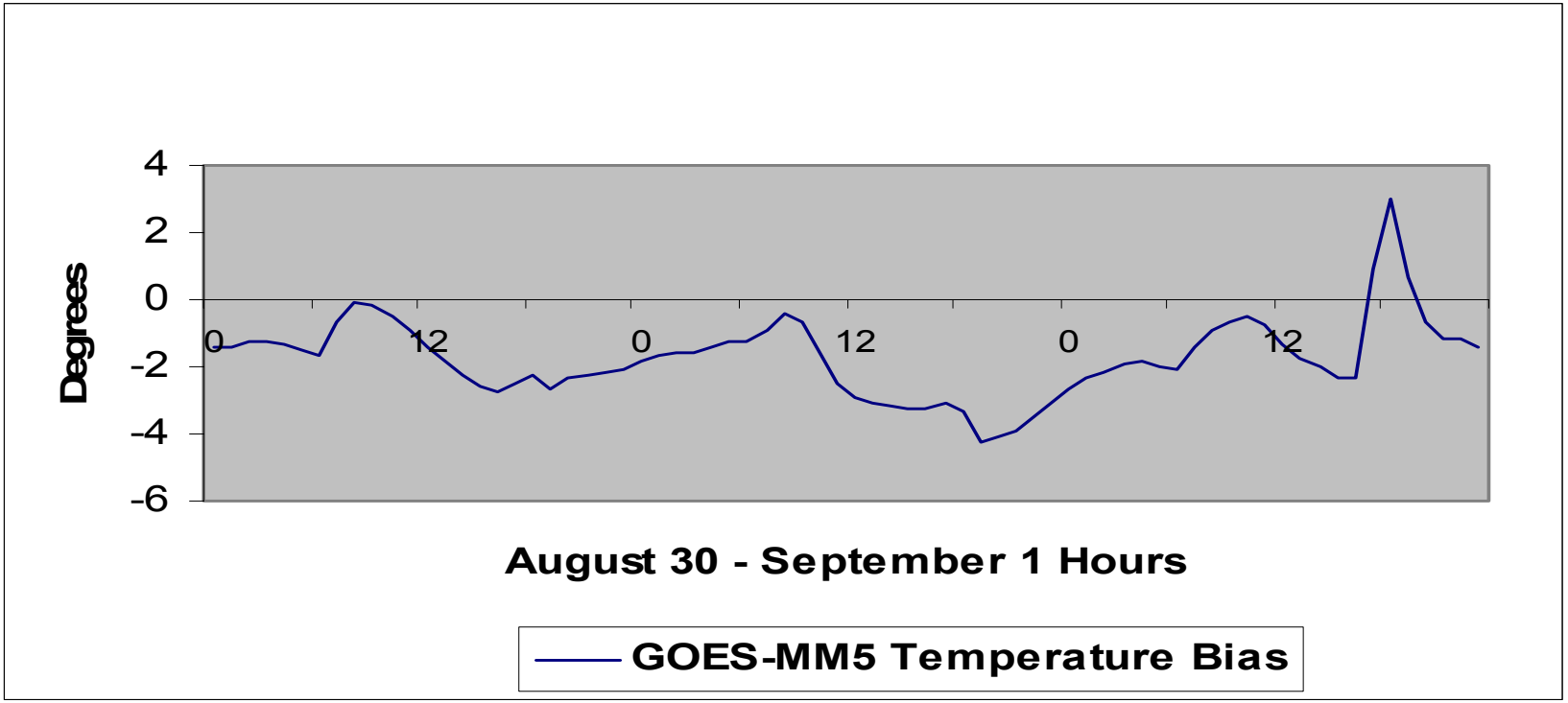
TCEQ BPA Statistics



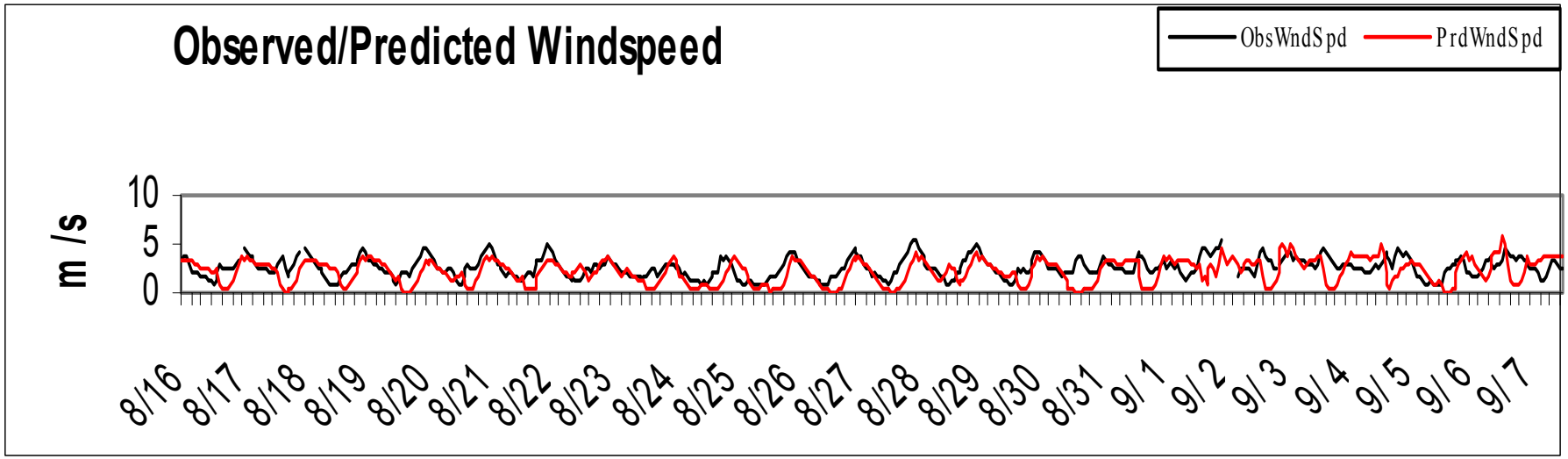
GOES METSTAT all HGBPA sites



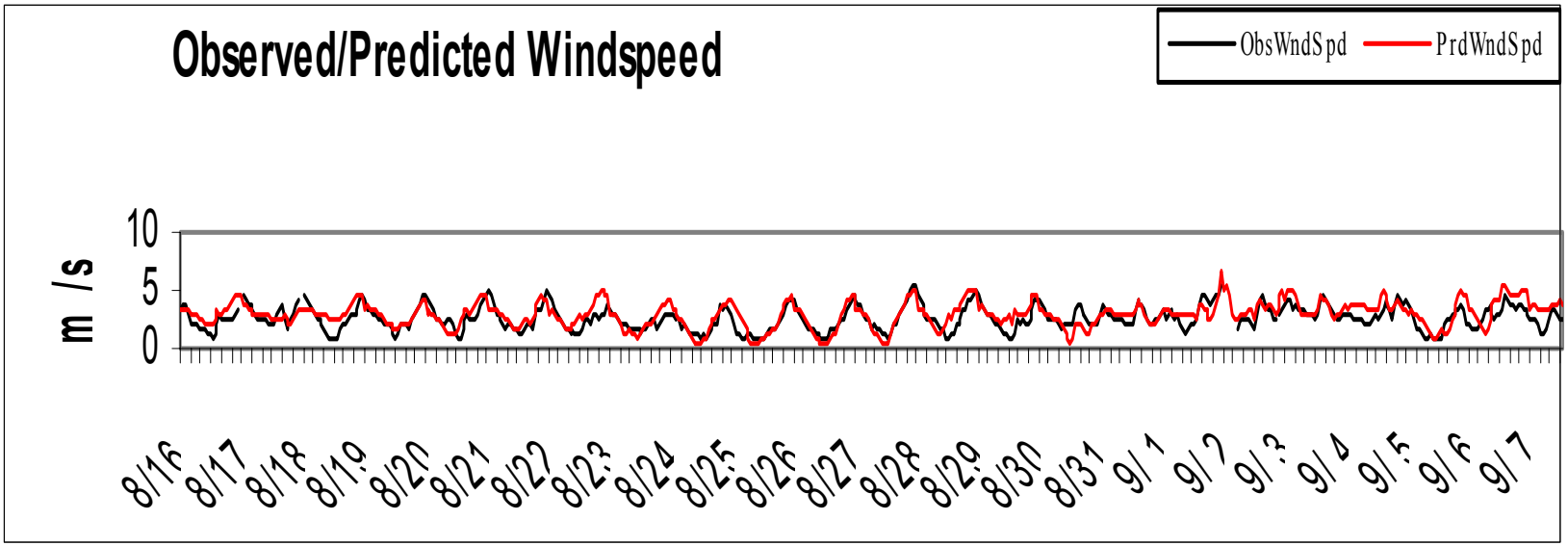
GOES METSTAT all HGBPA sites



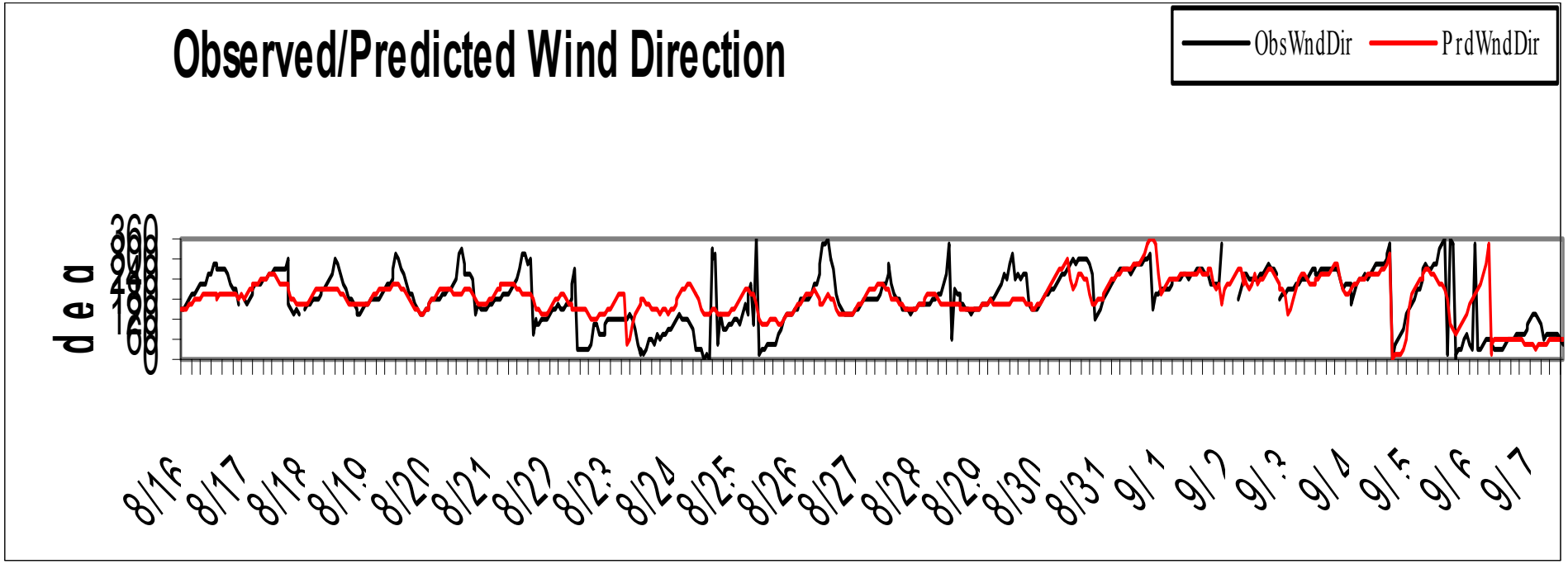
ATMET Statistics
Experiment 2



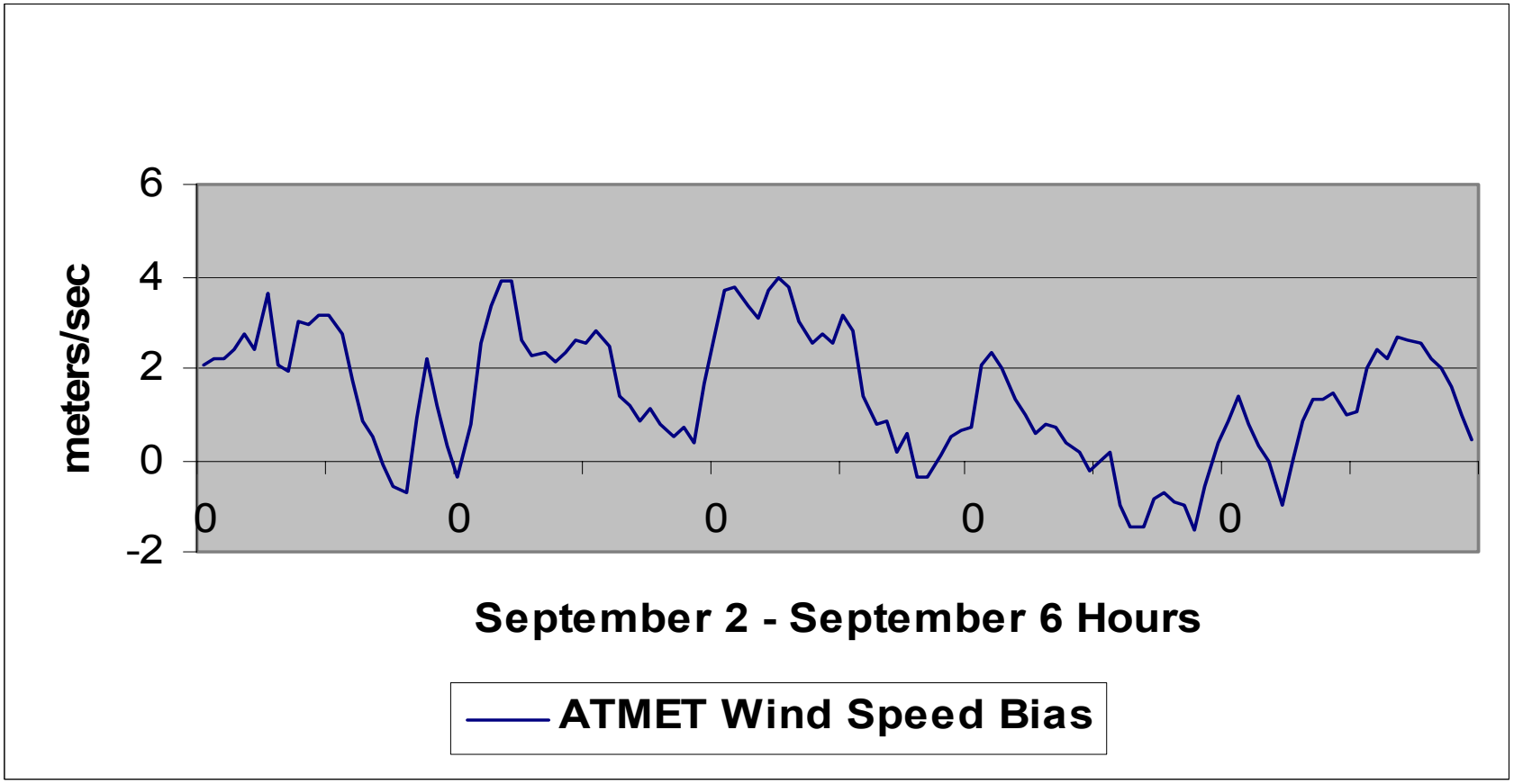
ATMET HGBPA Statistics
Experiment 3



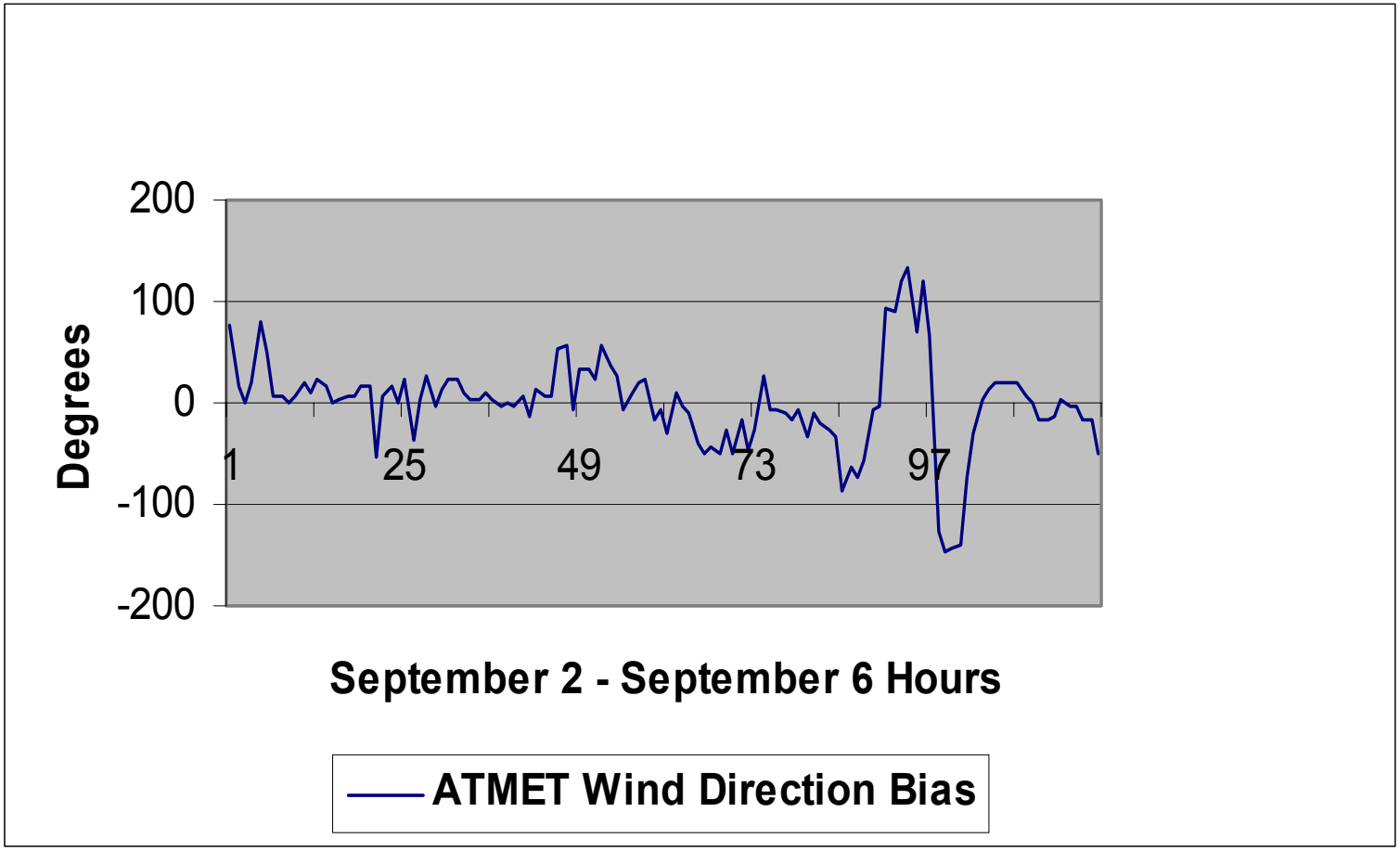
ATMET HGBPA Statistics
Experiment 3



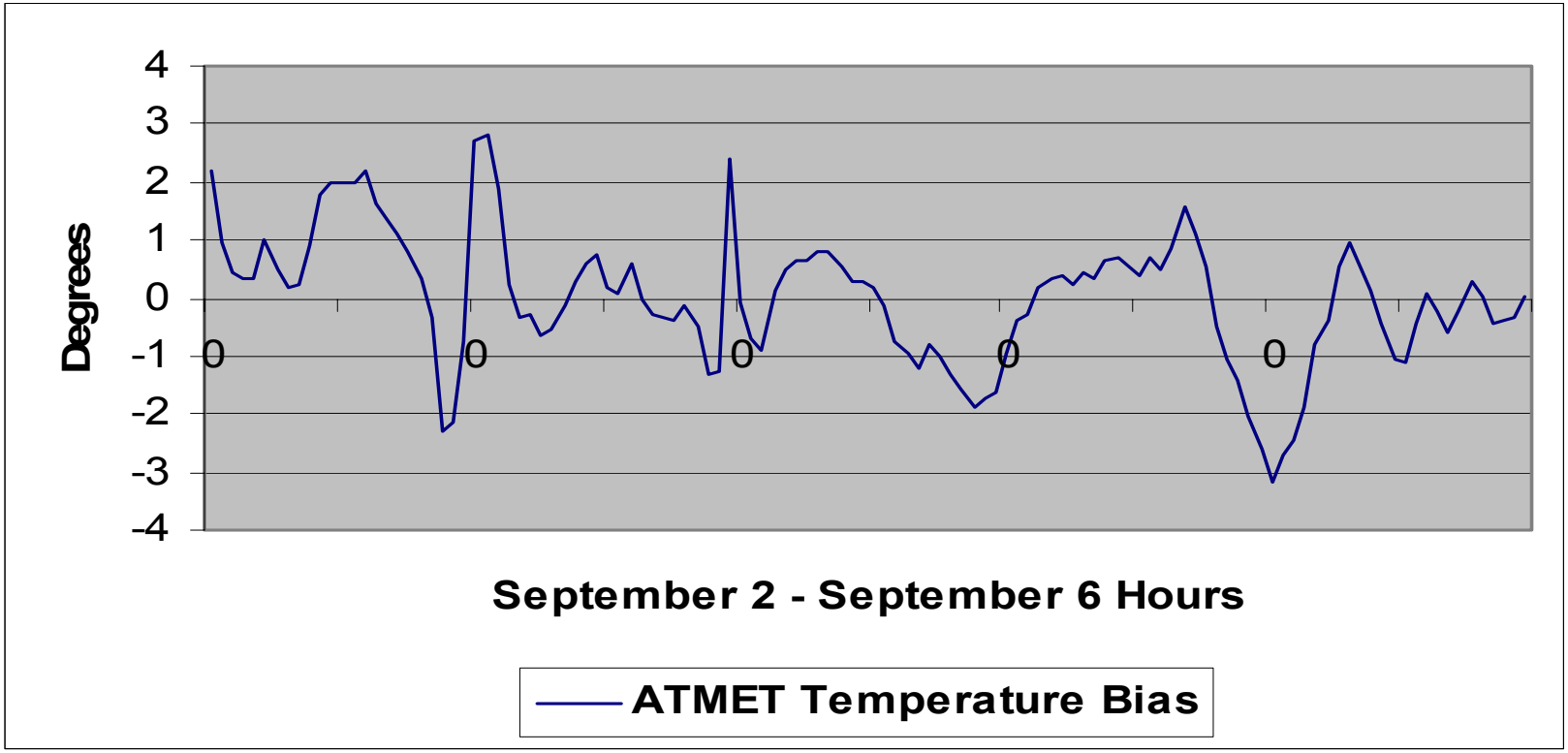
HGX Exp 3 BPA Metstat



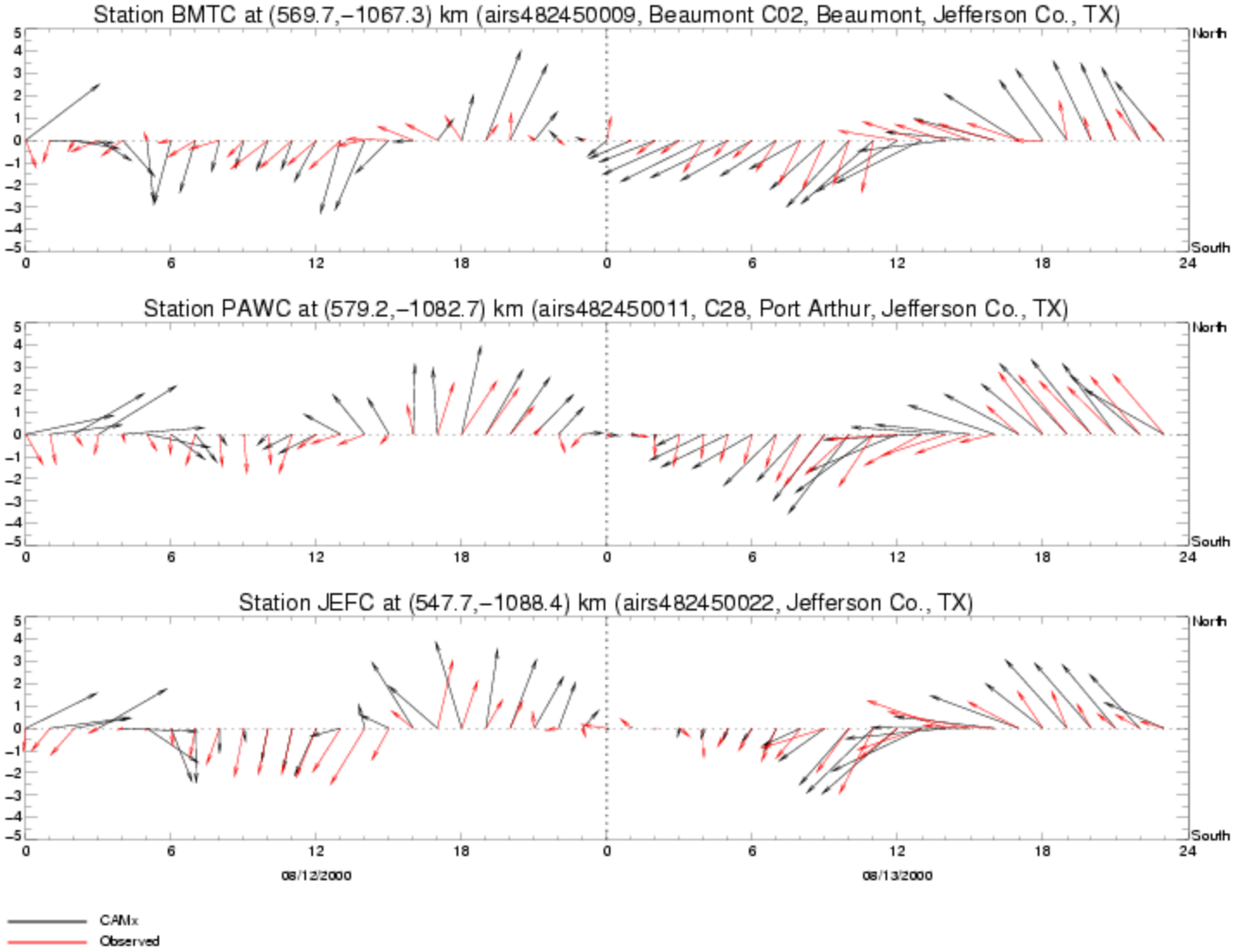
HGX Exp 3 BPA Metstat



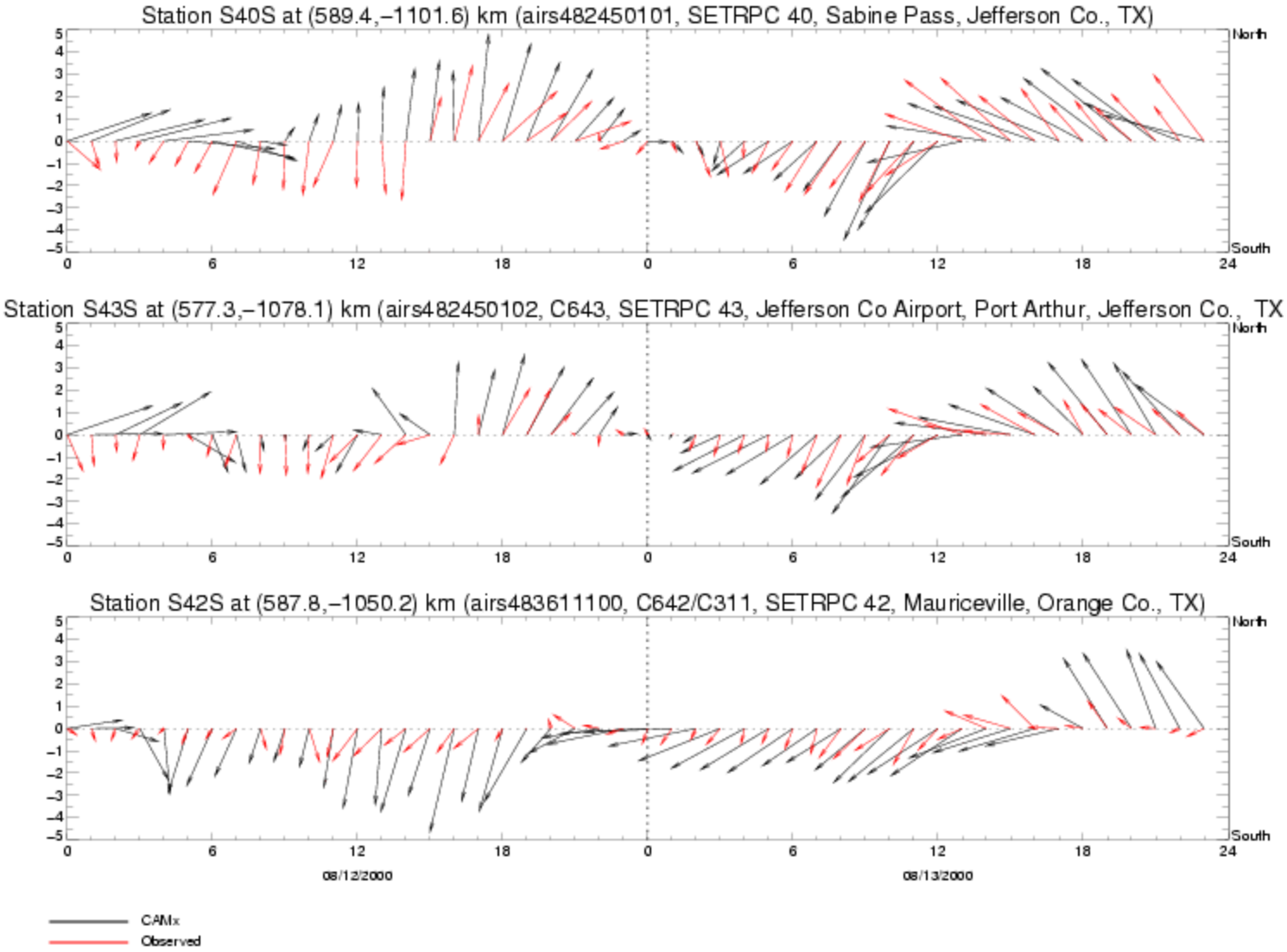
HGX Exp 3 BPA Metstat



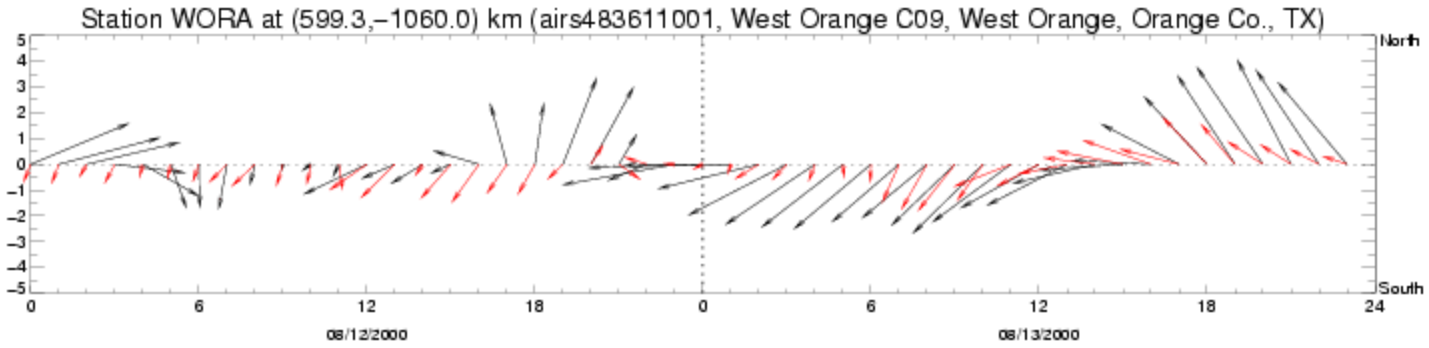
Horizontal Wind (m/s) at Layer 1 (08/12/2000–08/13/2000)
CAMx Horizontal Wind



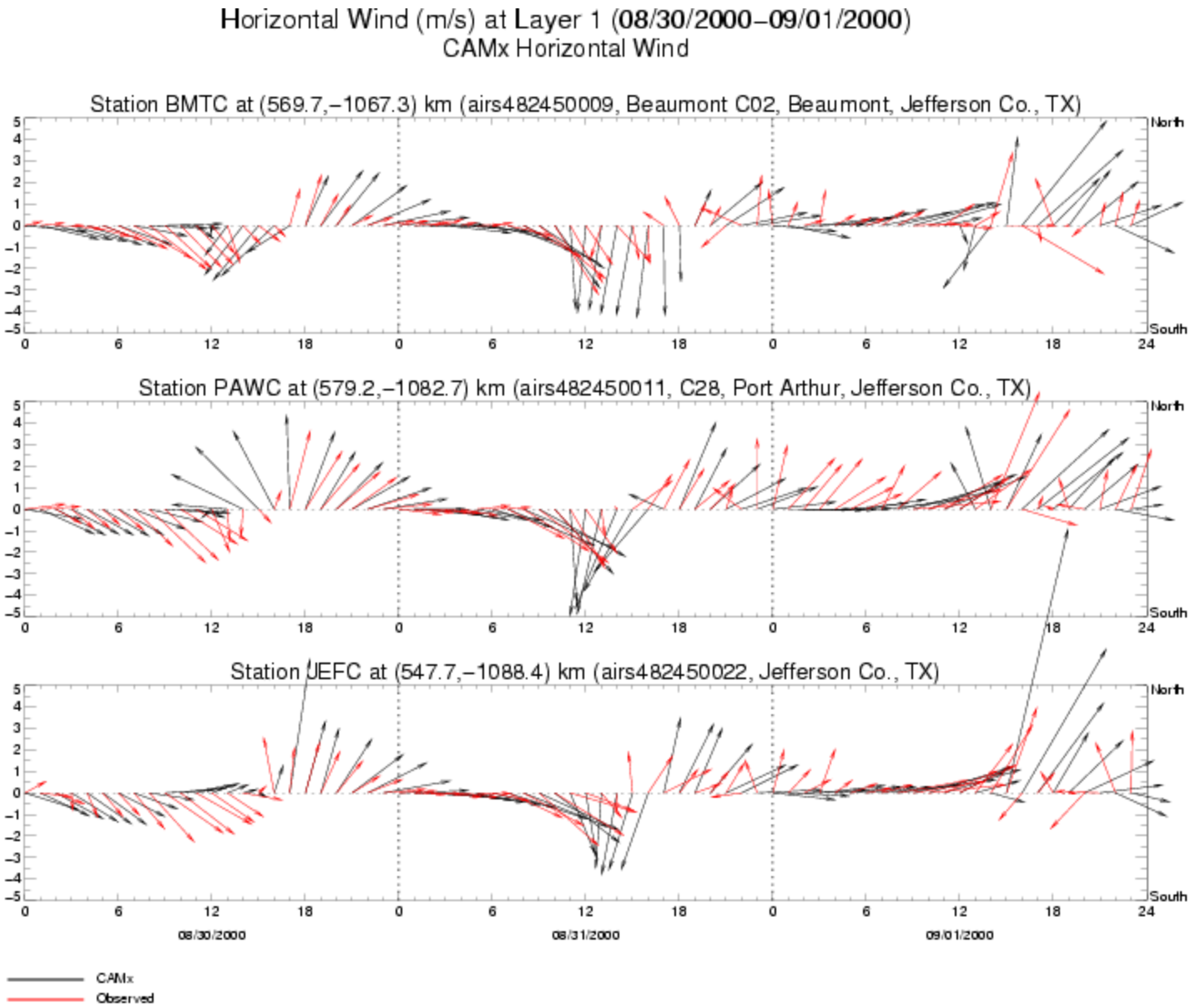
Horizontal Wind (m/s) at Layer 1 (08/12/2000–08/13/2000)
CAMx Horizontal Wind



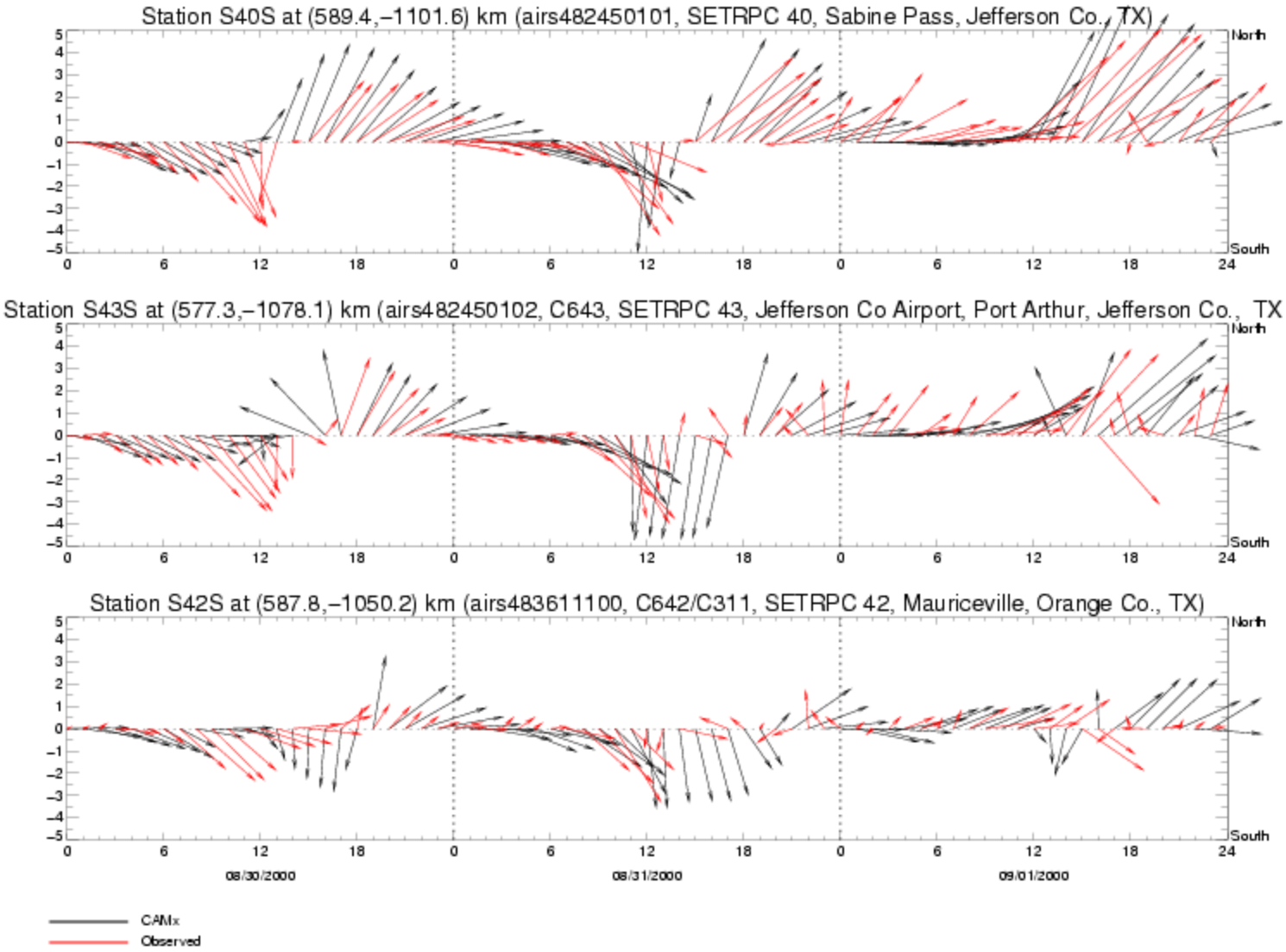
Horizontal Wind (m/s) at Layer 1 (08/12/2000–08/13/2000)
CAMx Horizontal Wind



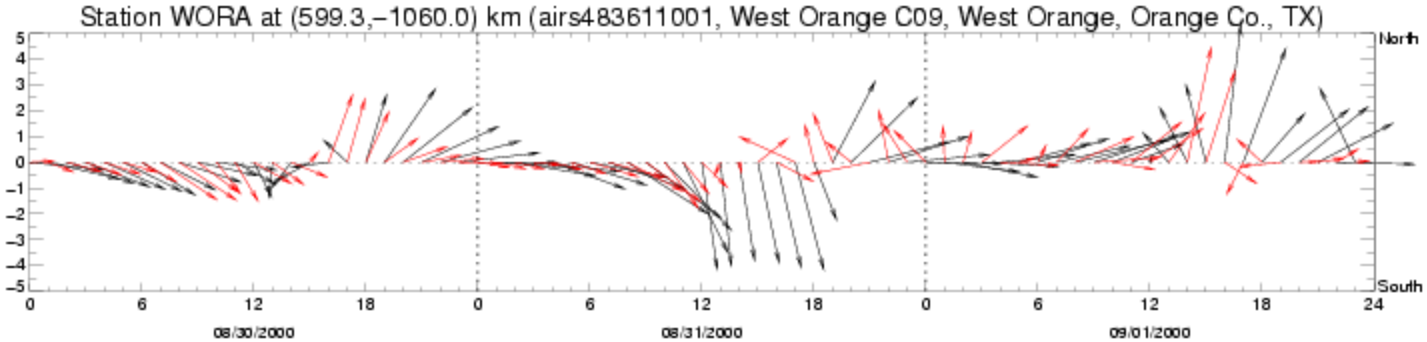
CAMx
Observed


Horizontal Wind (m/s) at Layer 1 (08/30/2000–09/01/2000)
CAMx Horizontal Wind
Station BMTC at (569.7,–1067.3) km (airs482450009, Beaumont C02, Beaumont, Jefferson Co., TX)
Station PAWC at (579.2,–1082.7) km (airs482450011, C28, Port Arthur, Jefferson Co., TX)
Station UEFC at (547.7,–1088.4) km (airs482450022, Jefferson Co., TX)
North
South
08/30/2000
08/31/2000
09/01/2000
CAMx
Observed

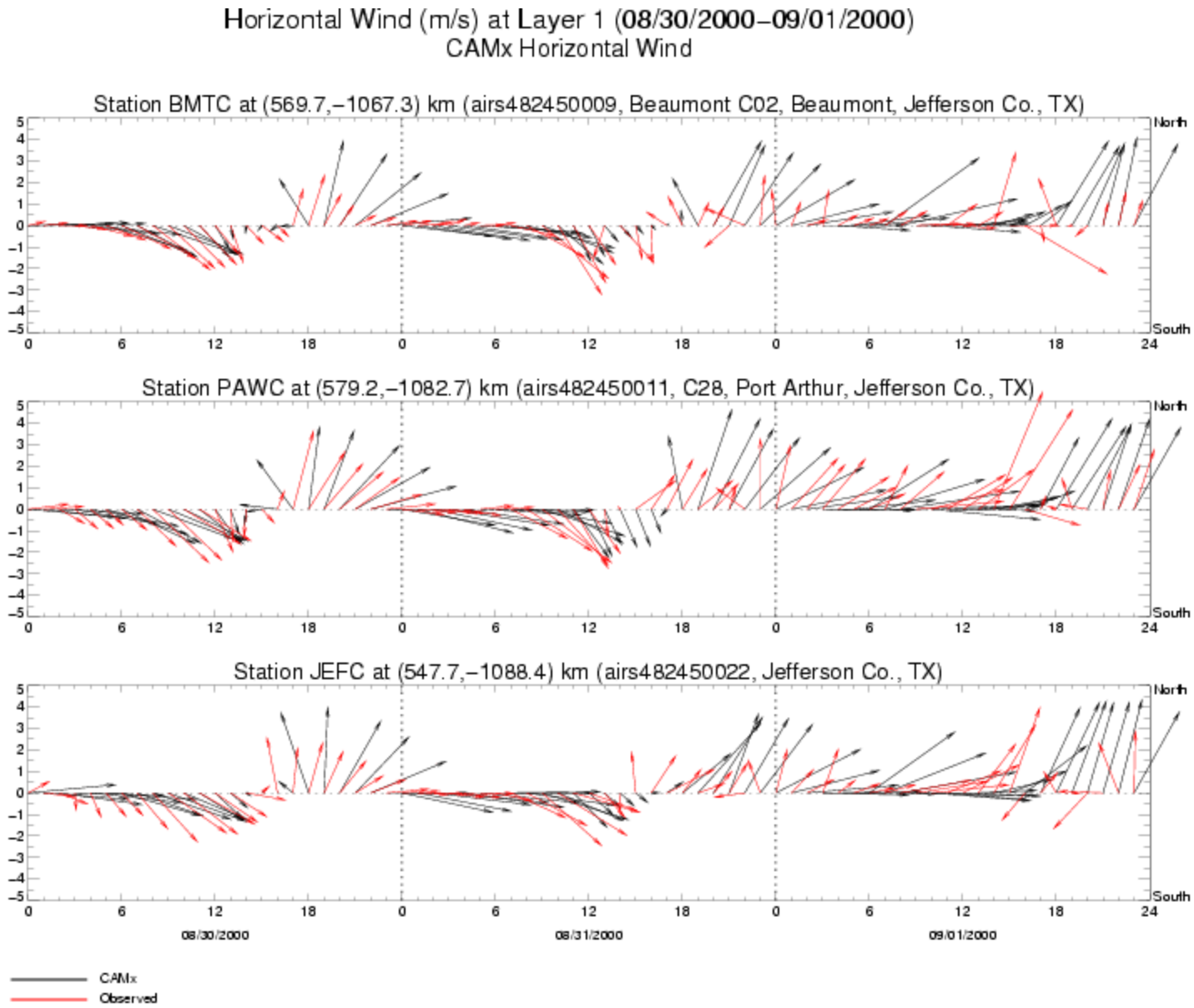
Horizontal Wind (m/s) at Layer 1 (08/30/2000–09/01/2000)
CAMx Horizontal Wind



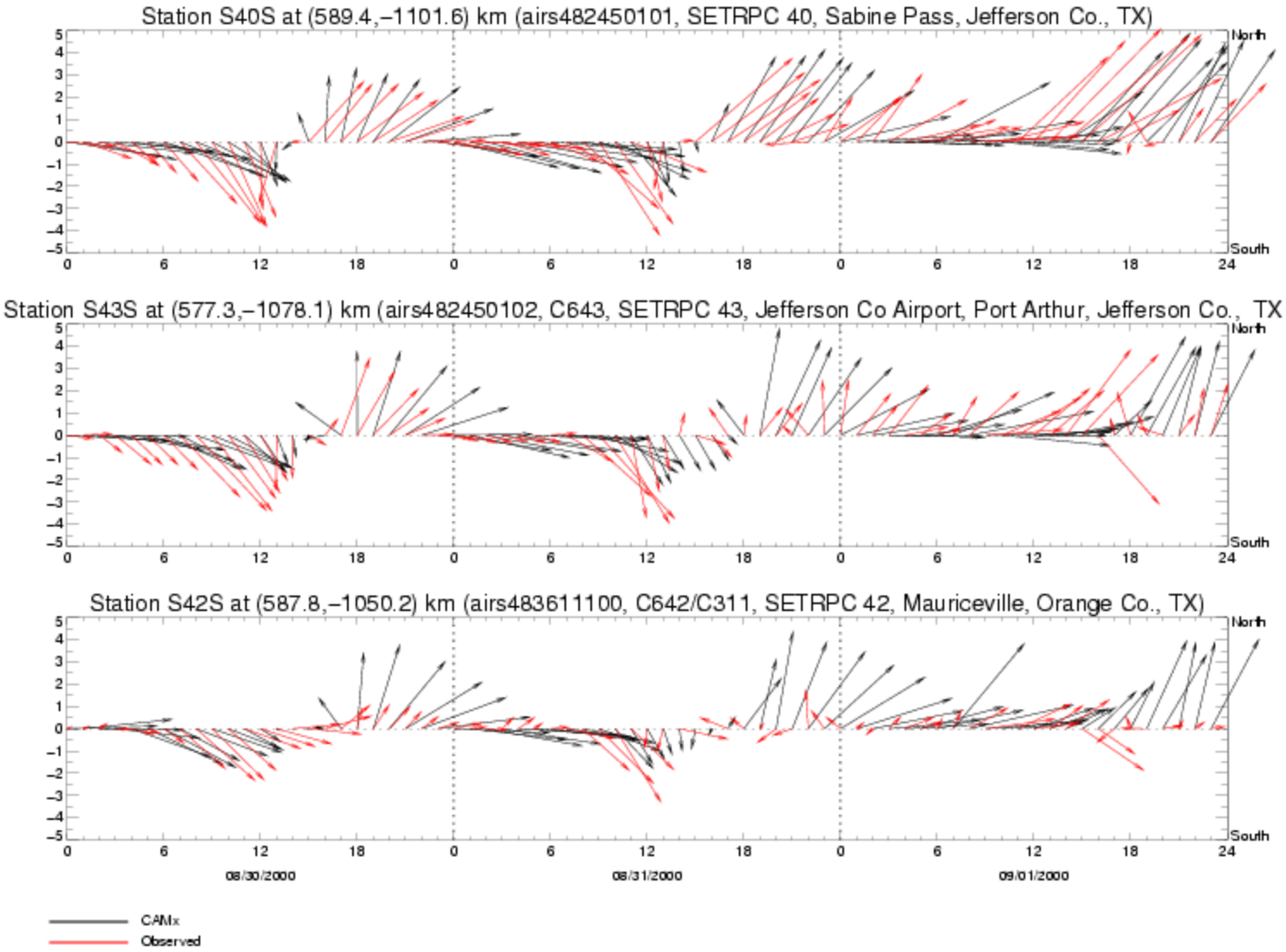
Horizontal Wind (m/s) at Layer 1 (08/30/2000–09/01/2000)
CAMx Horizontal Wind



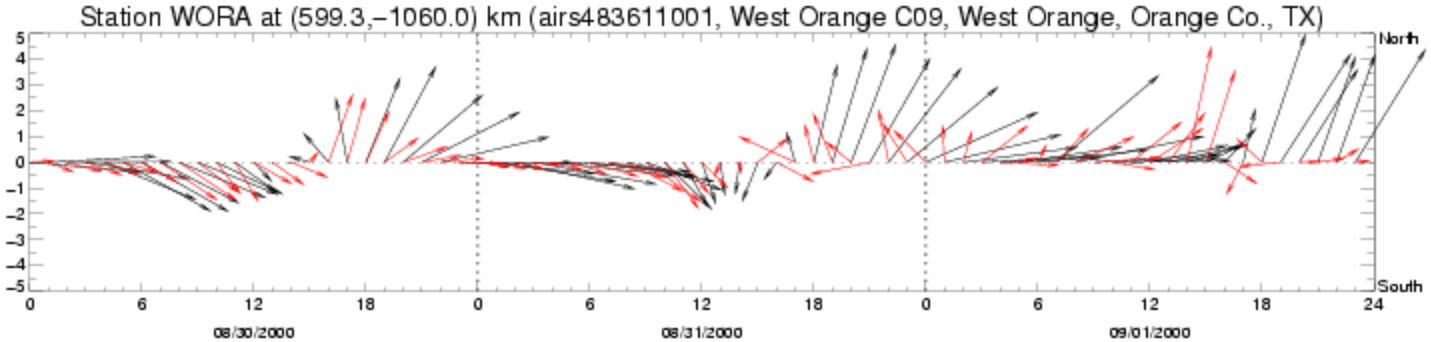
CAMx
Observed


Horizontal Wind (m/s) at Layer 1 (08/30/2000–09/01/2000)
CAMx Horizontal Wind
Station BMTC at (569.7,–1067.3) km (airs482450009, Beaumont C02, Beaumont, Jefferson Co., TX)
Station PAWC at (579.2,–1082.7) km (airs482450011, C28, Port Arthur, Jefferson Co., TX)
Station JEFC at (547.7,–1088.4) km (airs482450022, Jefferson Co., TX)
North
South
08/30/2000
08/31/2000
09/01/2000
CAMx
Observed

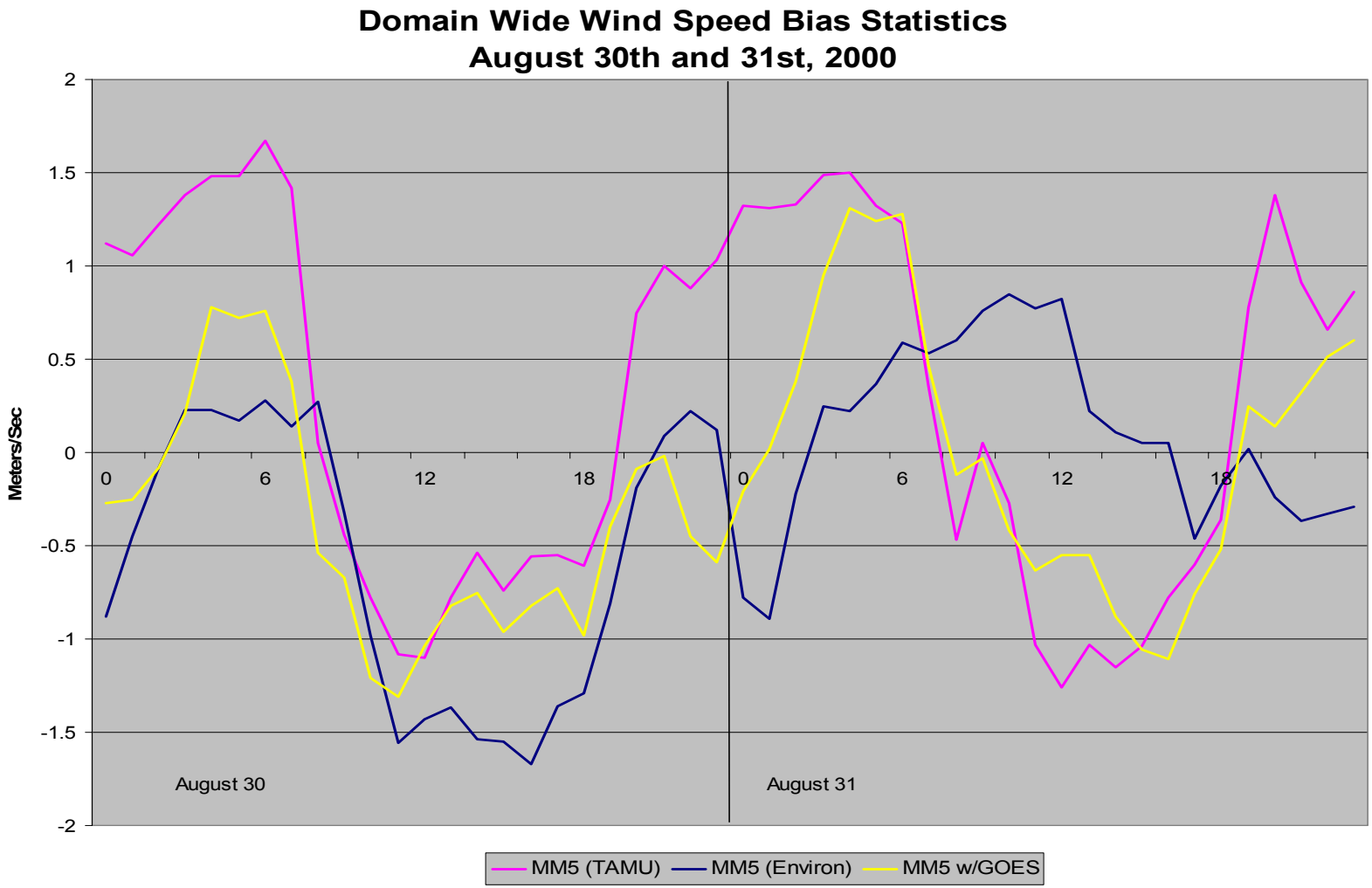
Horizontal Wind (m/s) at Layer 1 (08/30/2000–09/01/2000)
CAMx Horizontal Wind



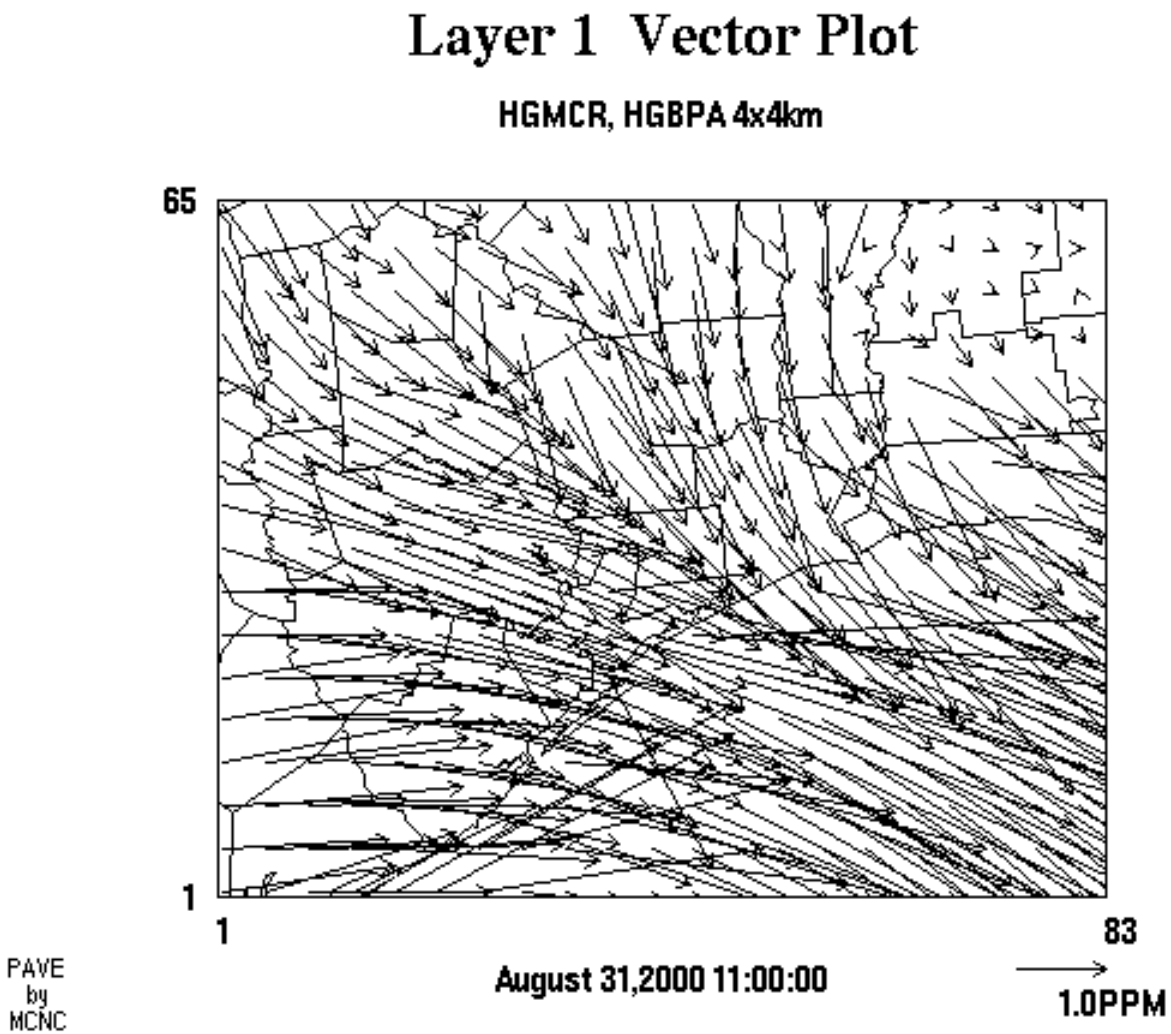
Horizontal Wind (m/s) at Layer 1 (08/30/2000–09/01/2000)
CAMx Horizontal Wind



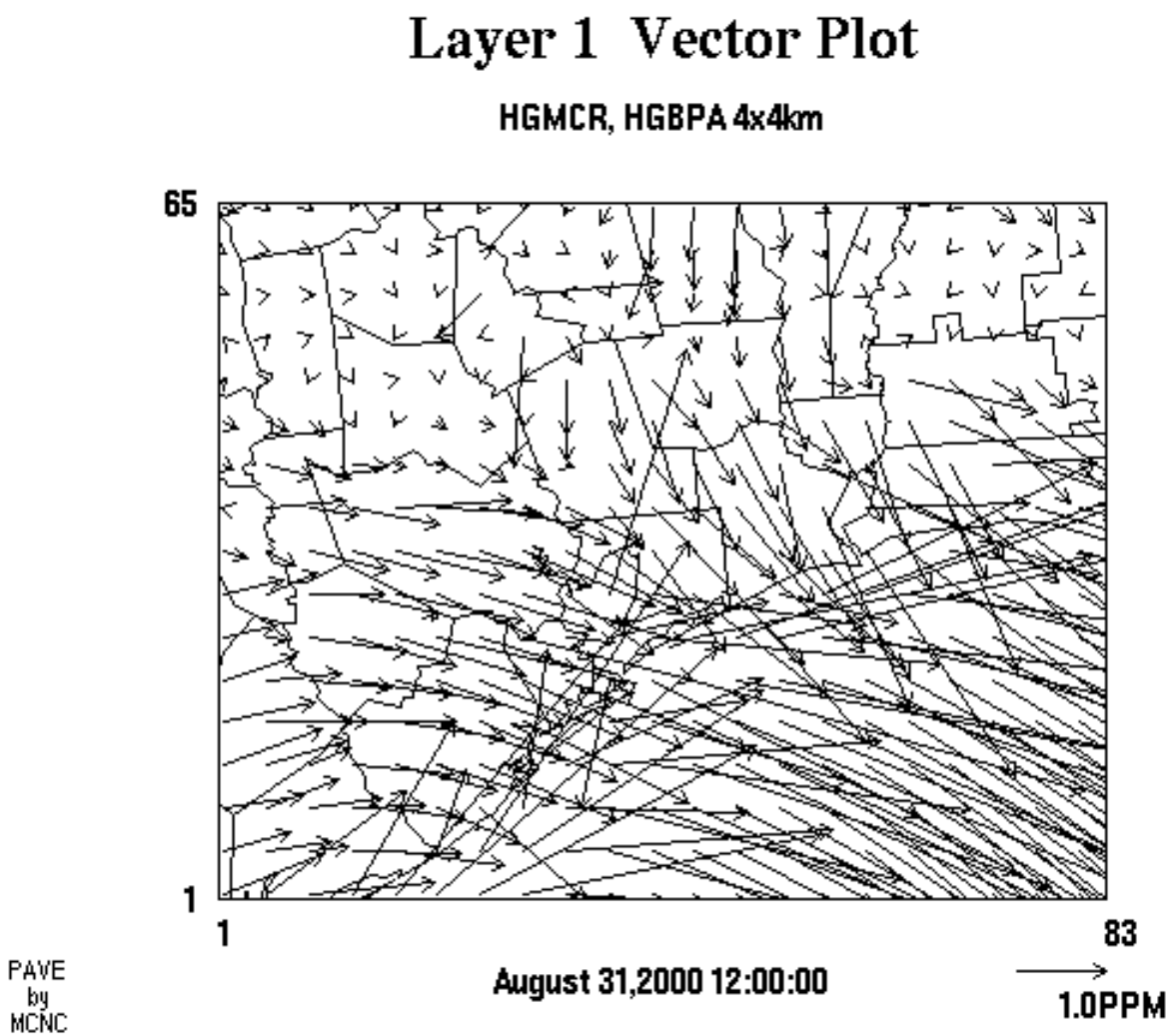
CAMx
Observed


Domain Wide Wind Speed Bias Statistics
August 30th and 31st, 2000
Meters/Sec
2
1.5
1
0.5
0
-0.5
-1
-1.5
-2
0
6
12
18
0
6
12
18
August 30
August 31
MM5 (TAMU)
MM5 (Environ)
MM5 w/GOES

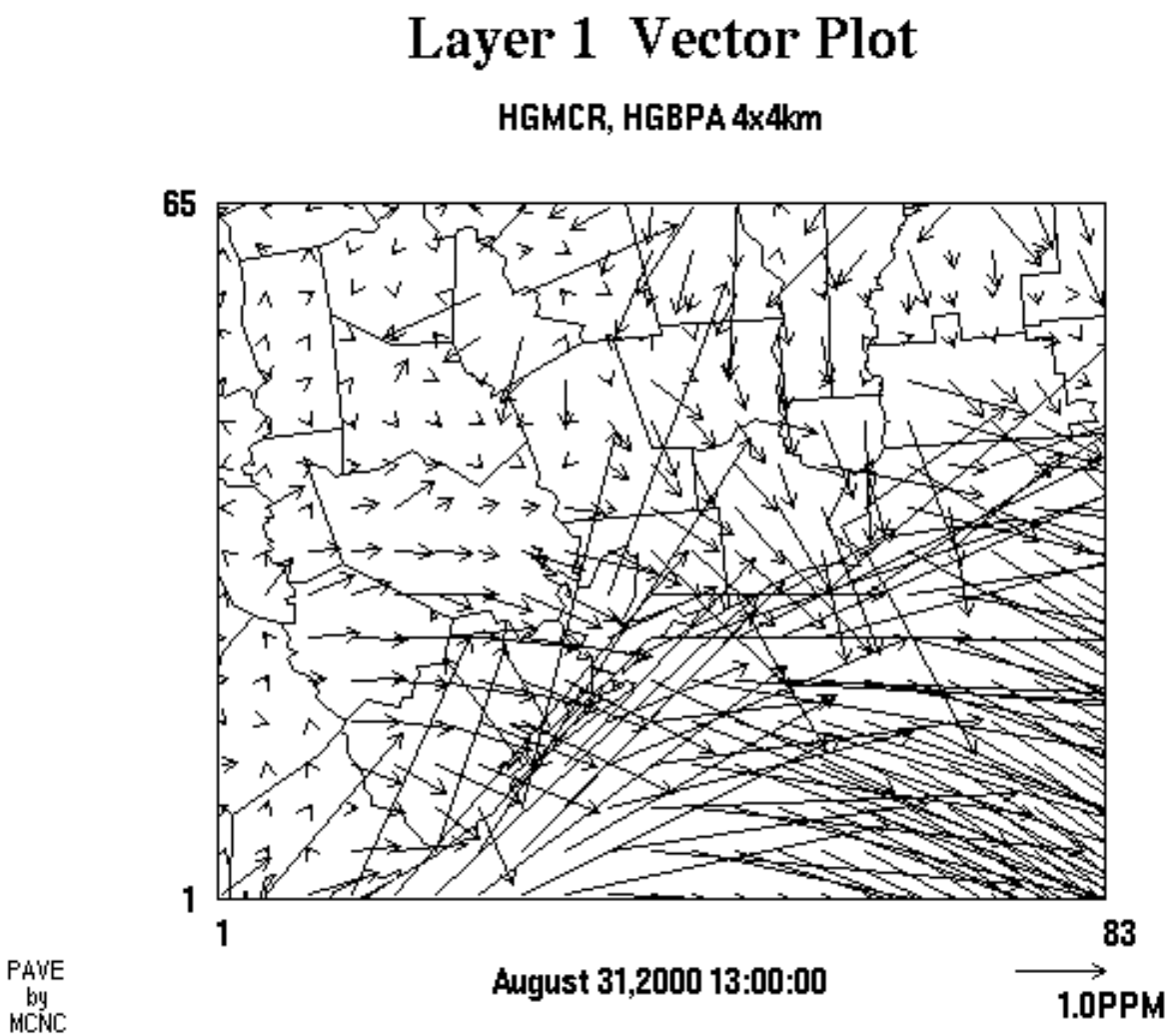
TAMU GOES MM5

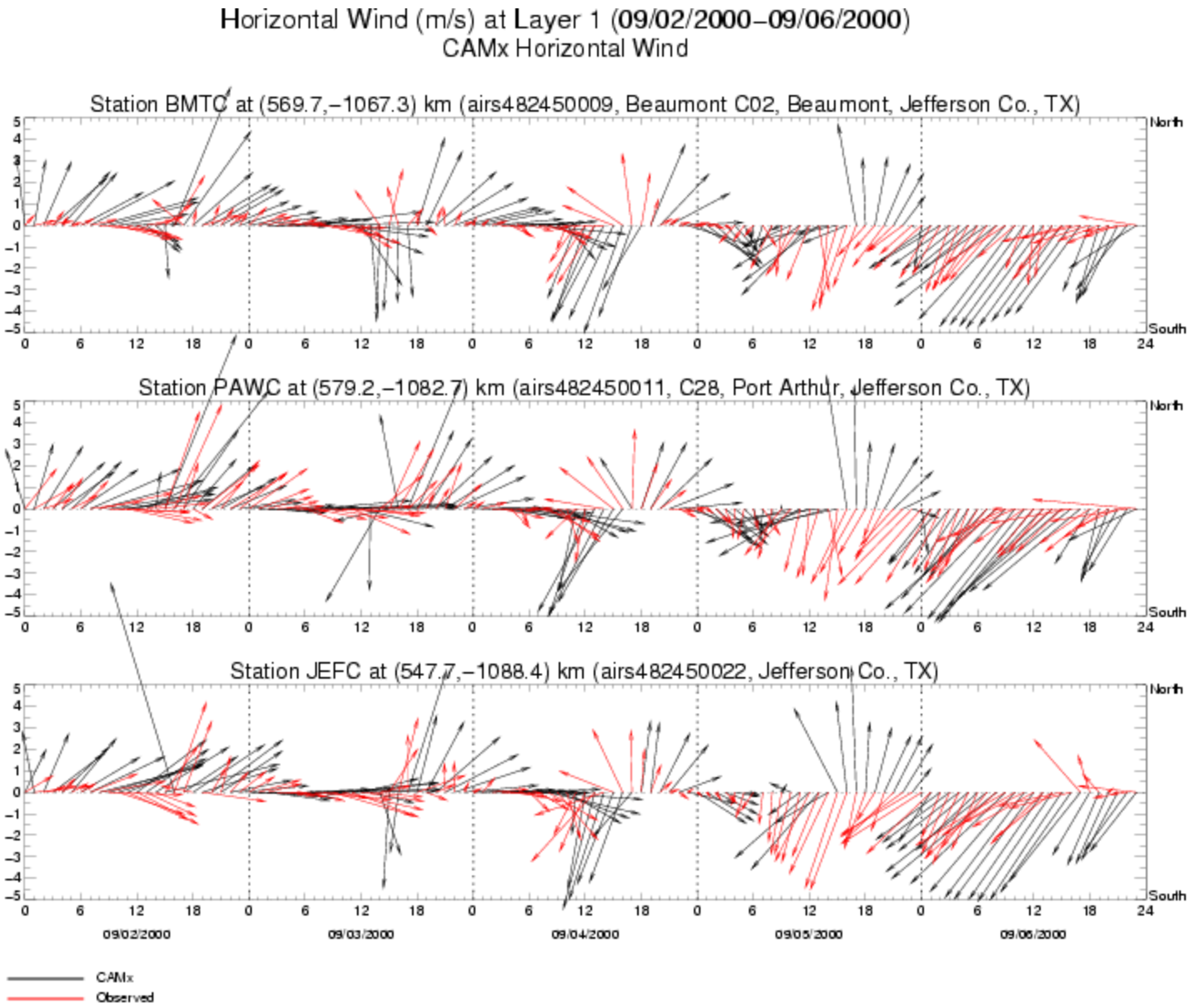


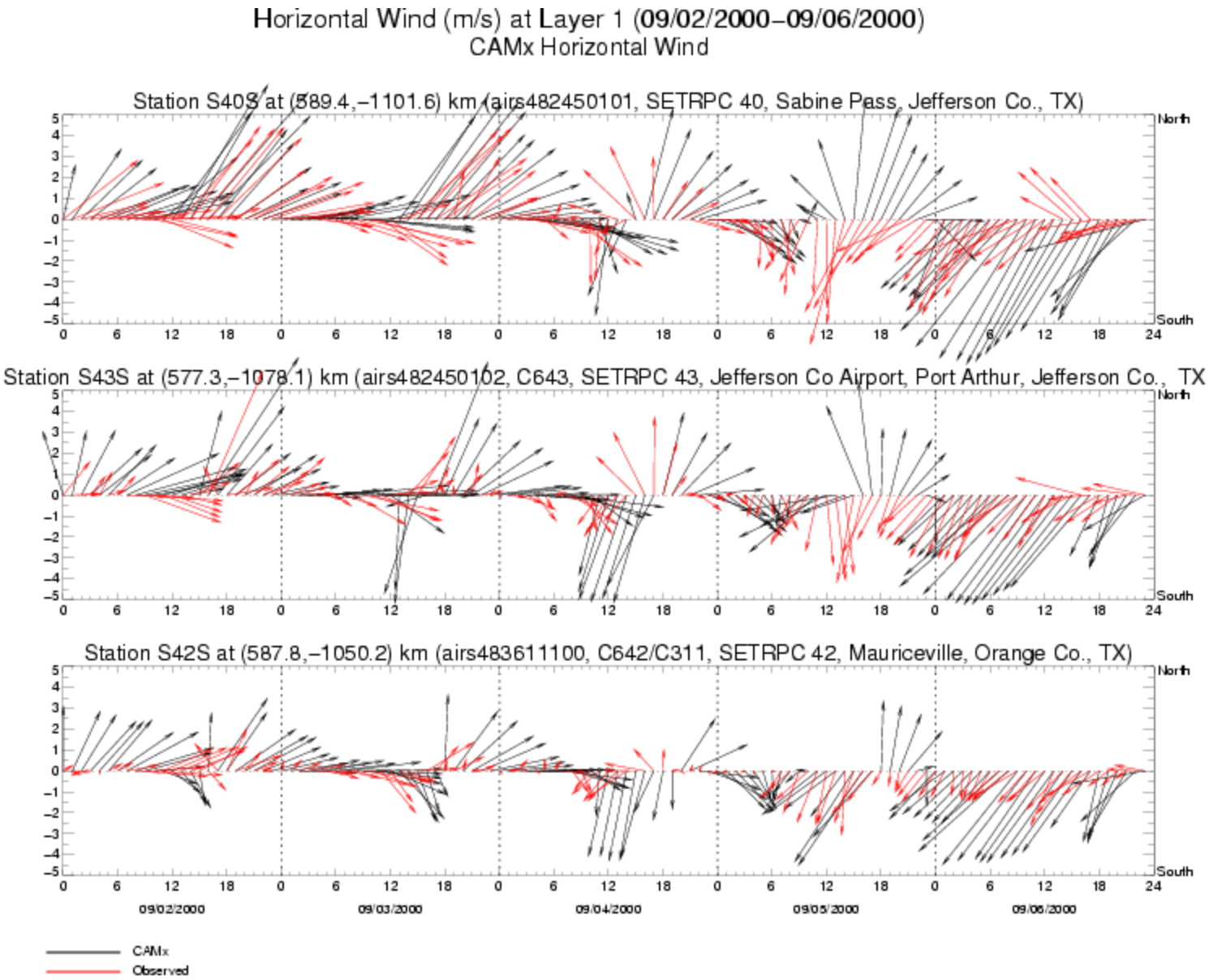
TAMU GOES MM5

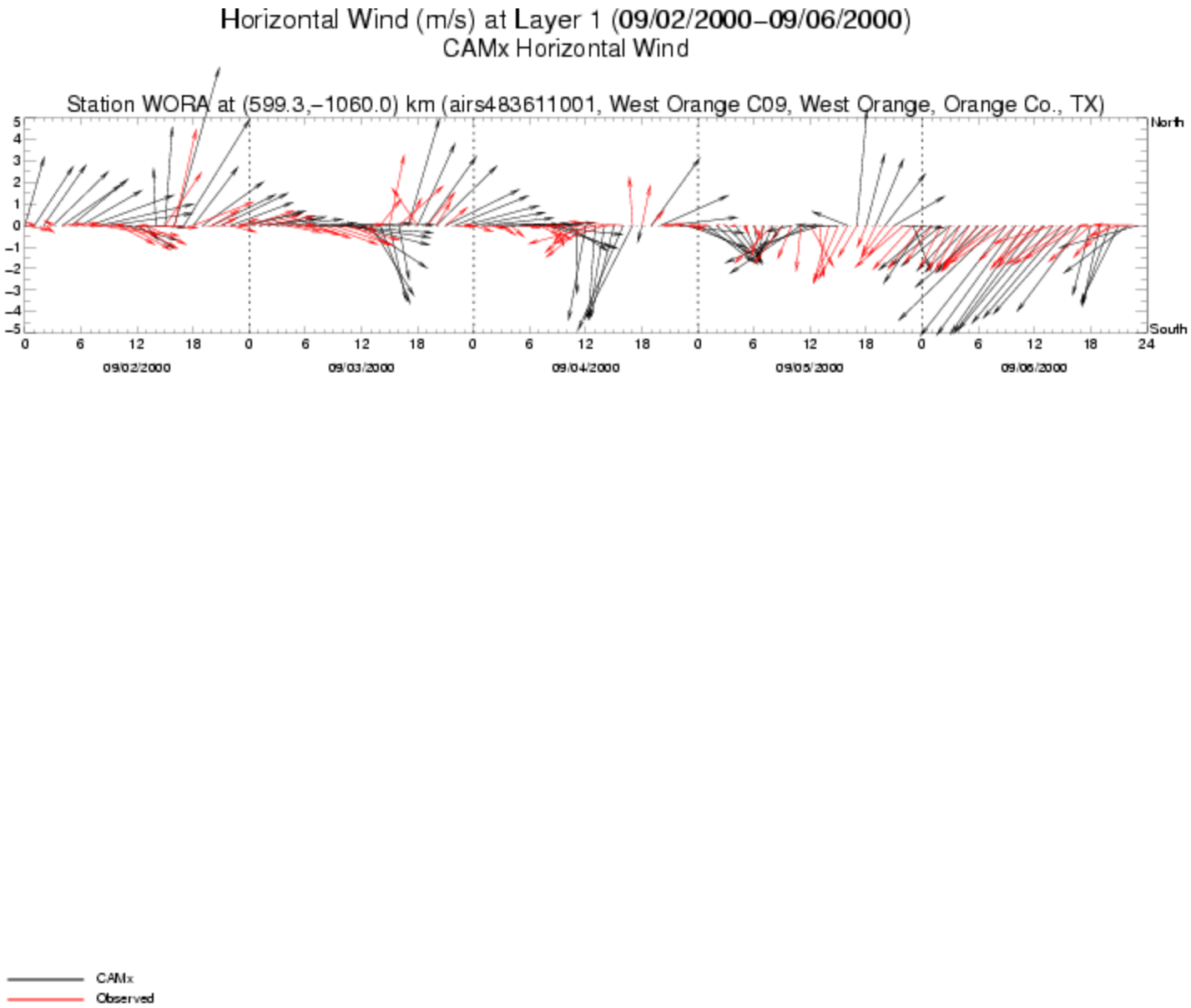


TAMU GOES MM5

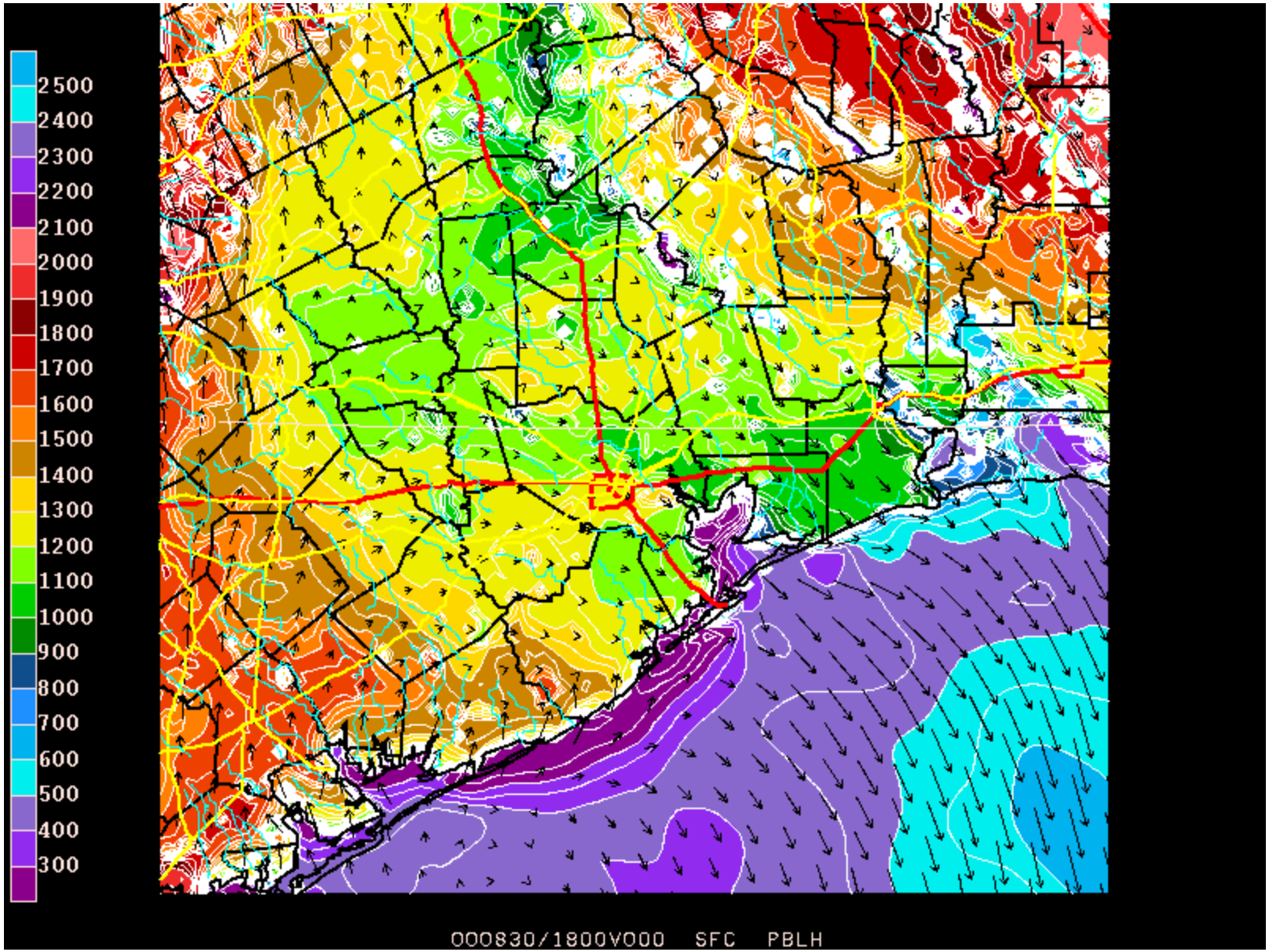



Horizontal Wind (m/s) at Layer 1 (09/02/2000–09/06/2000)
CAMx Horizontal Wind
Station BMTC at (569.7,–1067.3) km (airs482450009, Beaumont C02, Beaumont, Jefferson Co., TX)
Station PAWC at (579.2,–1082.7) km (airs482450011, C28, Port Arthur, Jefferson Co., TX)
Station JEFC at (547.7,–1088.4) km (airs482450022, Jefferson Co., TX)
North
South
09/02/2000
09/03/2000
09/04/2000
09/05/2000
09/06/2000
CAMx
Observed

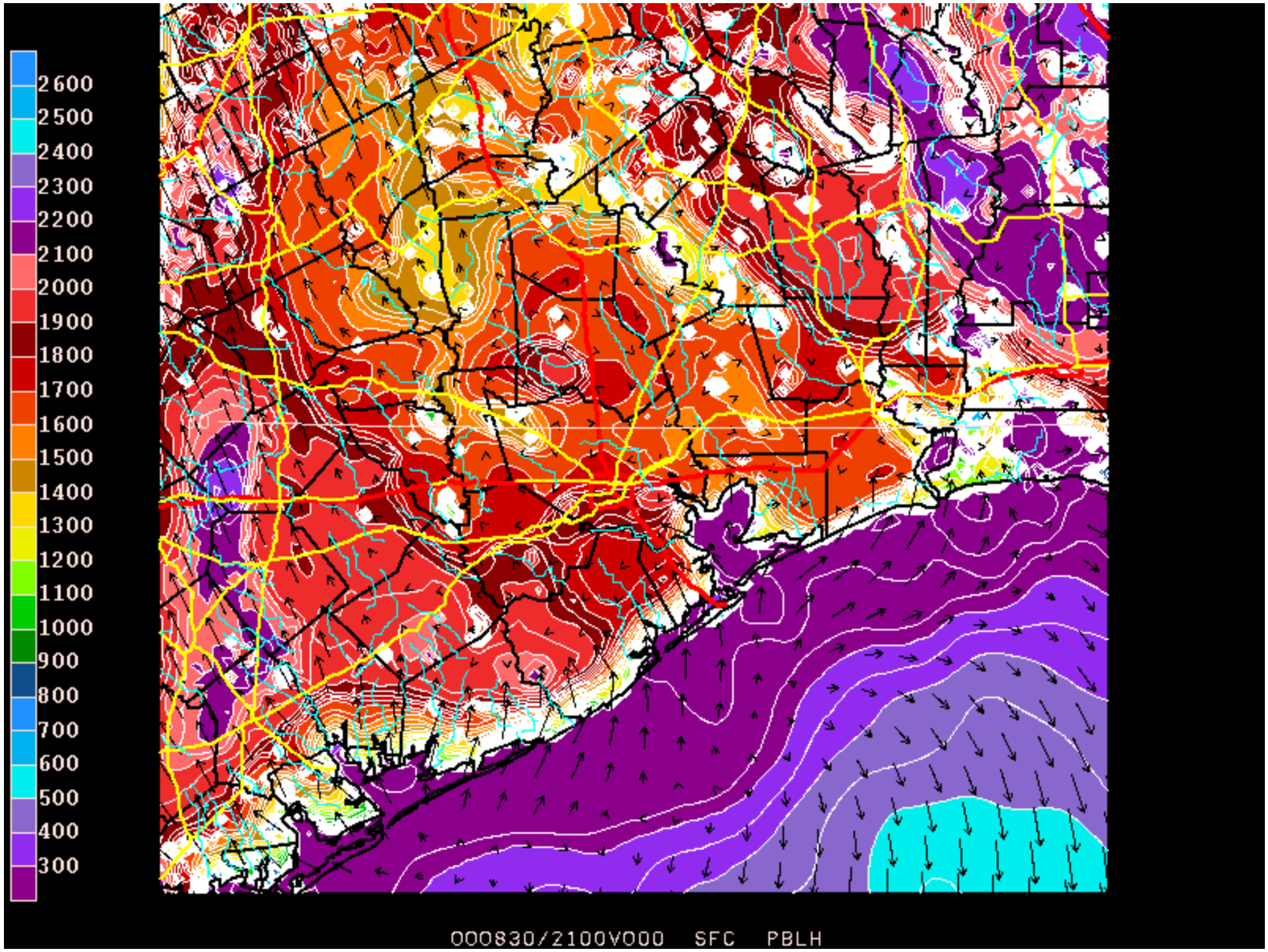

Horizontal Wind (m/s) at Layer 1 (09/02/2000–09/06/2000)
CAMx Horizontal Wind
Station S40S at (589.4,–1101.6) km (airs482450101, SETRPC 40, Sabine Pass, Jefferson Co., TX)
Station S43S at (577.3,–1078.1) km (airs482450102, C643, SETRPC 43, Jefferson Co Airport, Port Arthur, Jefferson Co., TX
Station S42S at (587.8,–1050.2) km (airs483611100, C642/C311, SETRPC 42, Mauriceville, Orange Co., TX)
North
South
09/02/2000
09/03/2000
09/04/2000
09/05/2000
09/06/2000
CAMx
Observed


Horizontal Wind (m/s) at Layer 1 (09/02/2000–09/06/2000)
CAMx Horizontal Wind
Station WORA at (599.3,–1060.0) km (airs483611001, West Orange C09, West Orange, Orange Co., TX)
North
South
09/02/2000
09/03/2000
09/04/2000
09/05/2000
09/06/2000
CAMx
Observed

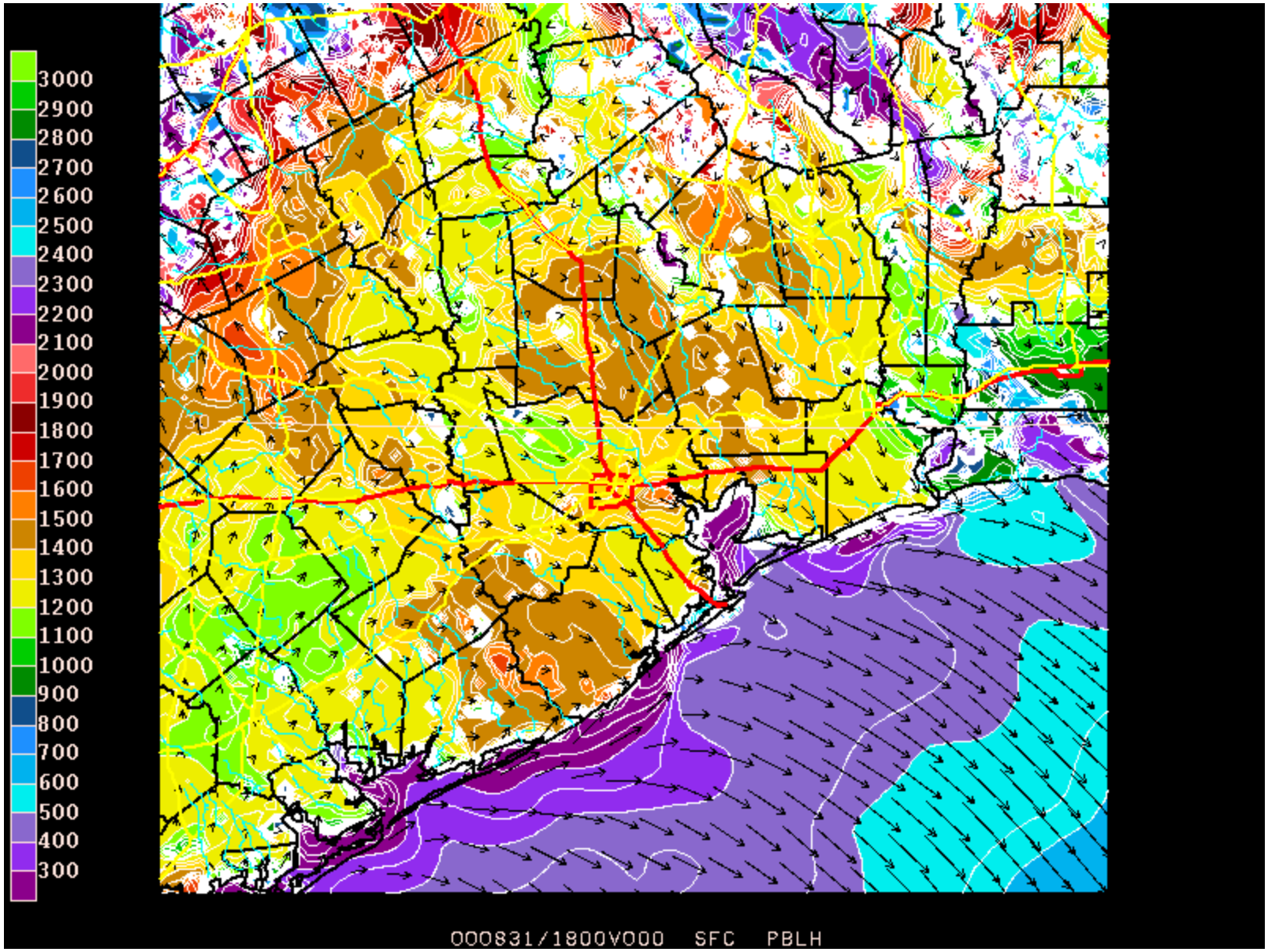
GOES MM5 PBL Height
August 30 12 PM CST



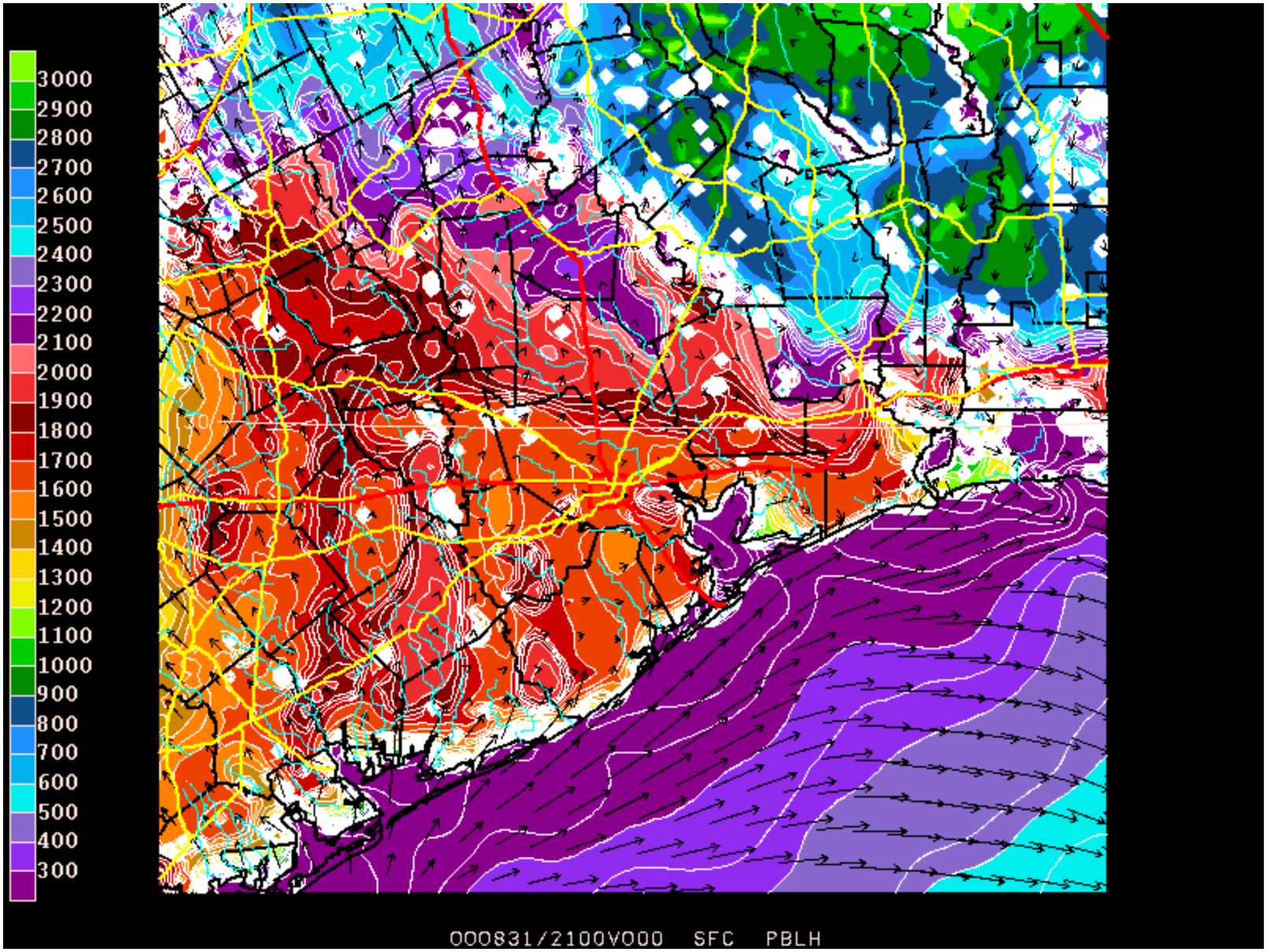
GOES MM5 PBL Height
August 30 3 PM CST



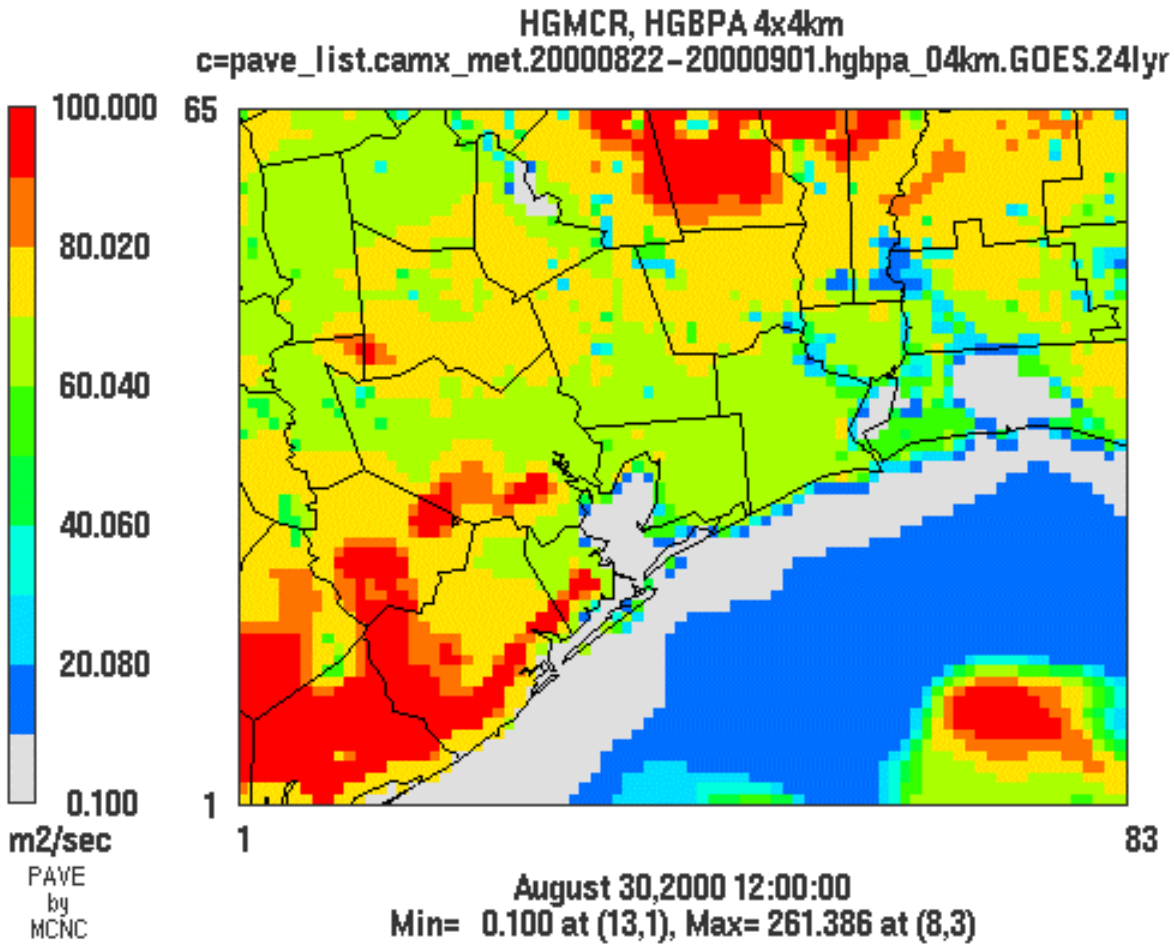
GOES MM5 PBL Height
August 31 12 PM CST



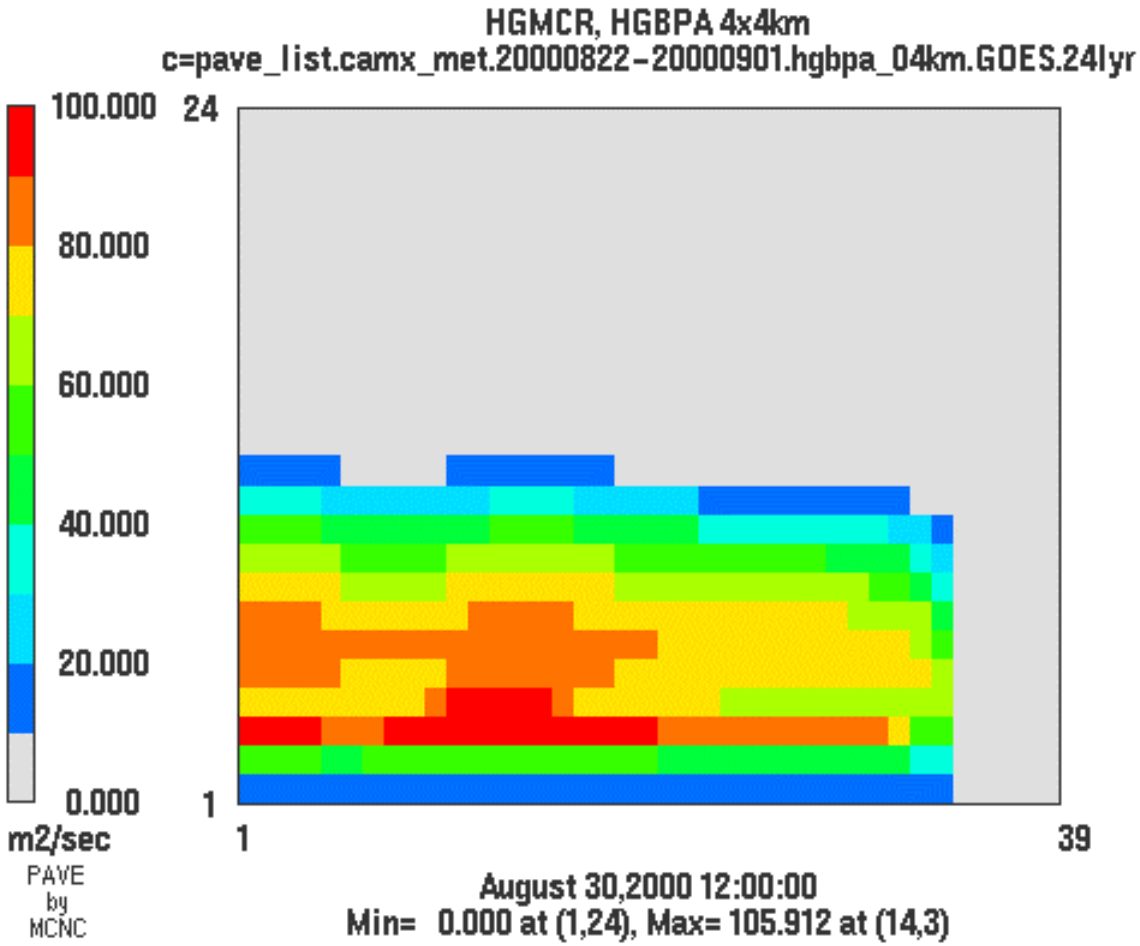
GOES MM5 PBL Height
August 31 3 PM CST



Layer 4 KVc


HGMCR, HGBPA 4x4km
c=pave_list.camx_met.20000822-20000901.hgbpa_04km.GOES.24lyr
100.000
80.020
60.040
40.060
20.080
0.100
m2/sec
65
1
1
83
PAVE
by
MCNC
August 30,2000 12:00:00
Min= 0.100 at (13,1), Max= 261.386 at (8,3)

Row 24 KVc


HGMCR, HGBPA 4x4km
c=pave_list.camx_met.20000822-20000901.hgbpa_04km.GOES.24lyr
100.000
80.000
60.000
40.000
20.000
0.000
m2/sec
24
1
1
39
PAVE
by
MCNC
August 30,2000 12:00:00
Min= 0.000 at (1,24), Max= 105.912 at (14,3)