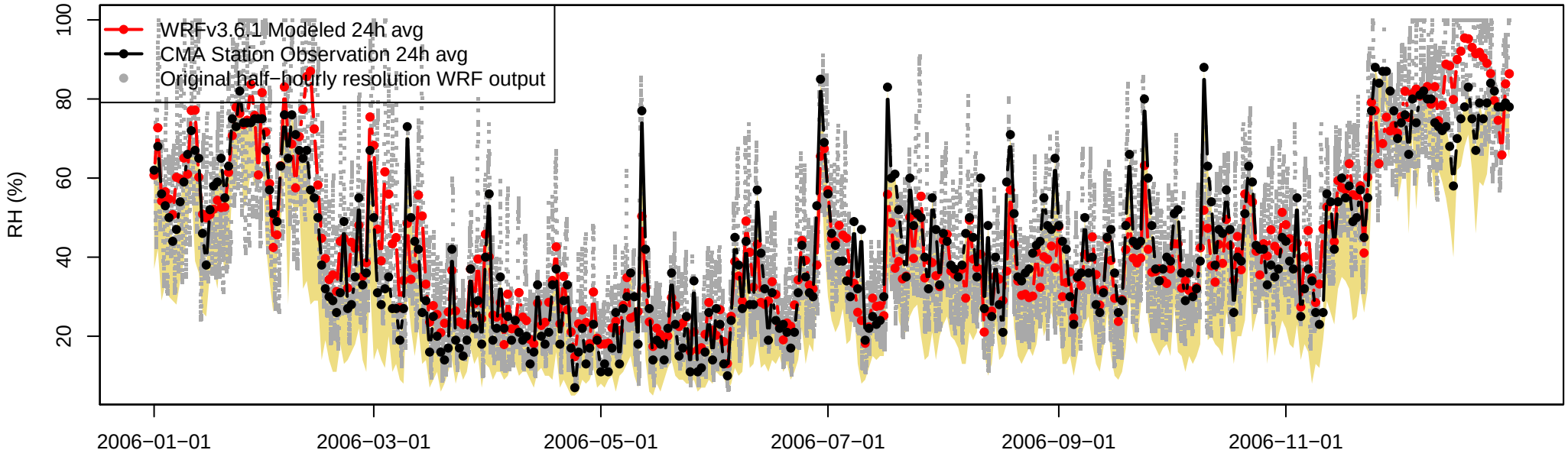
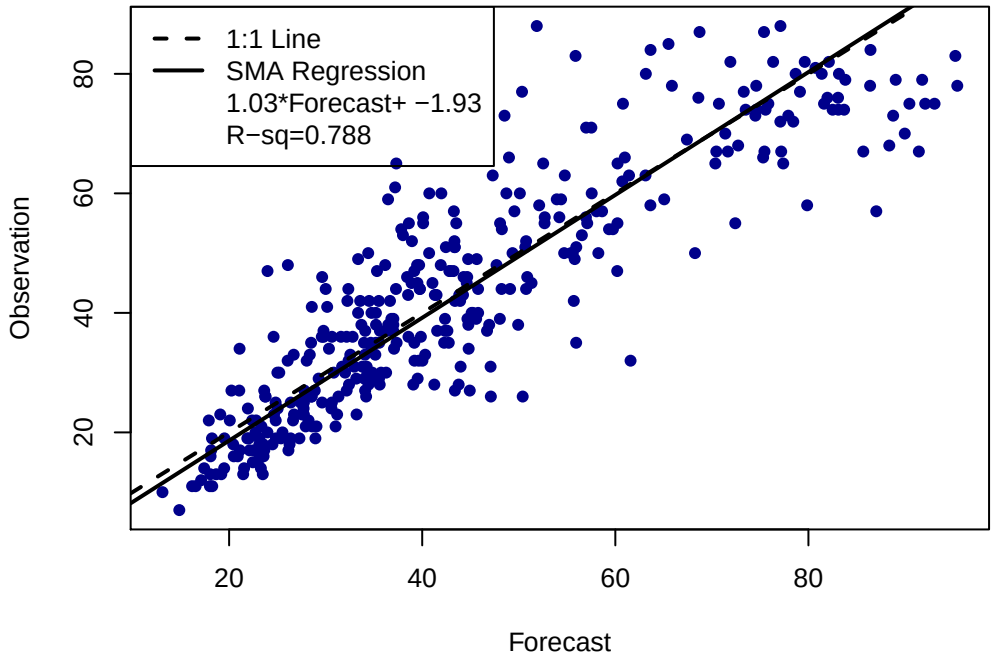
CMA Obs Station # 53068 43.65 degN 111.97 degE
vs Forecast at 43.751 degN 112.084 degE
2006, All Times Local (UTC+8)

Surface RH(%): CMA Obs Station # 53068 43.65 degN 111.97 degE vs 2m Forecast at 43.751 degN 112.084 degE
2006, All Times Local (UTC+8)

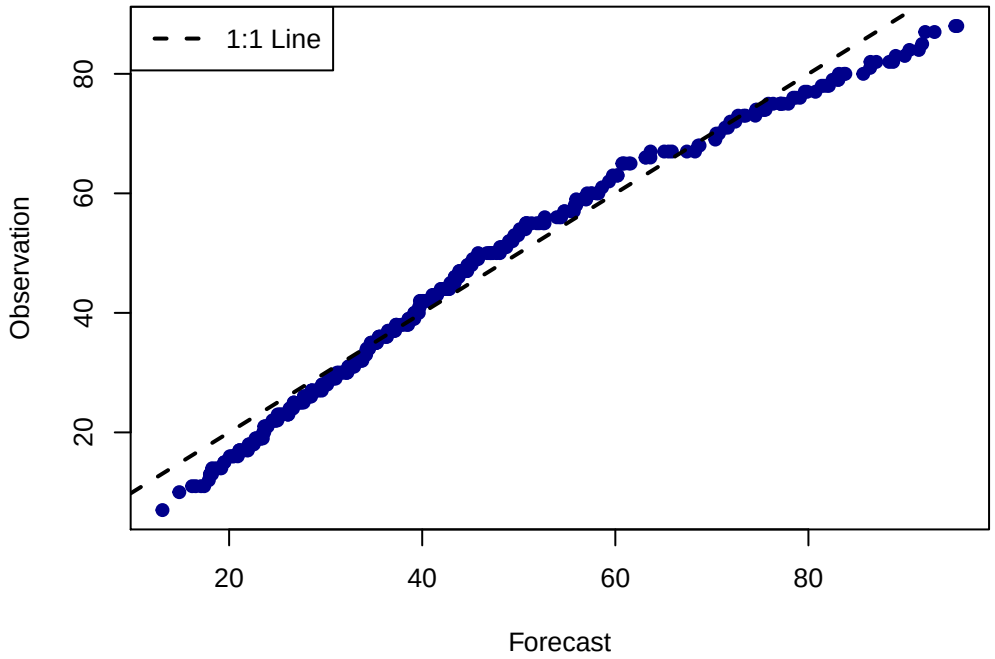


Shaded yellow region indicates daily range of CMA data. (No daily max available for RH%)

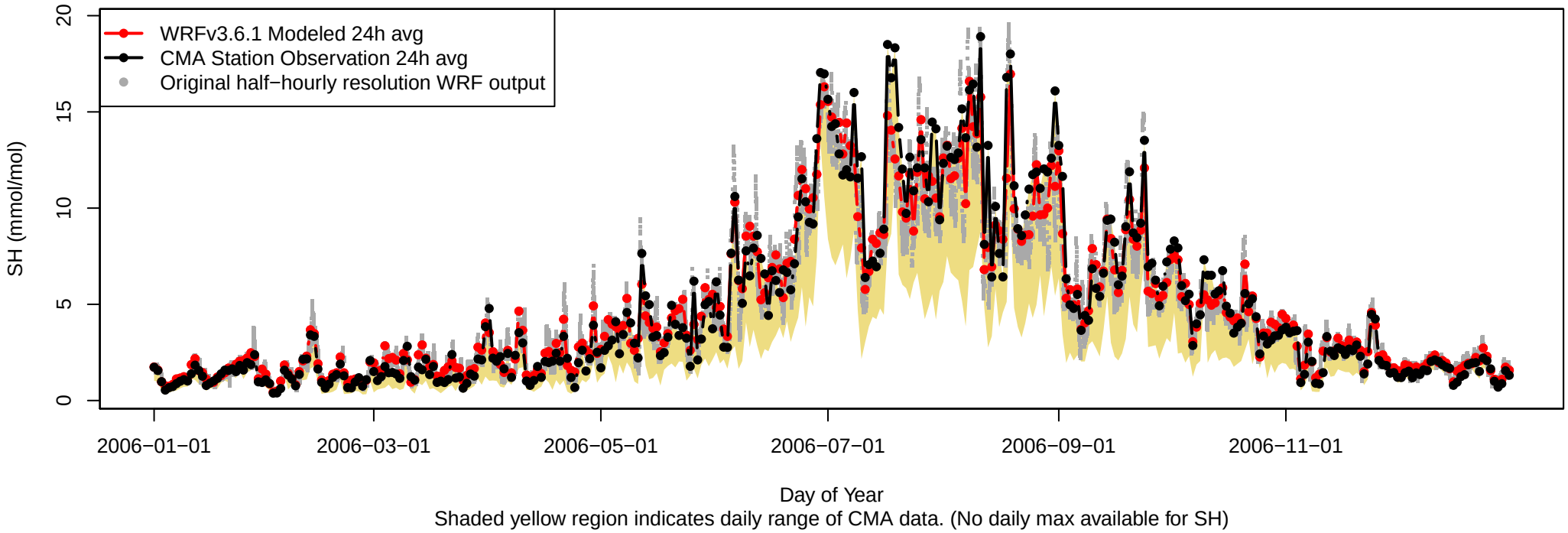
Relative Humidity (%) Scatterplot



Relative Humidity (%) QQ−Plot

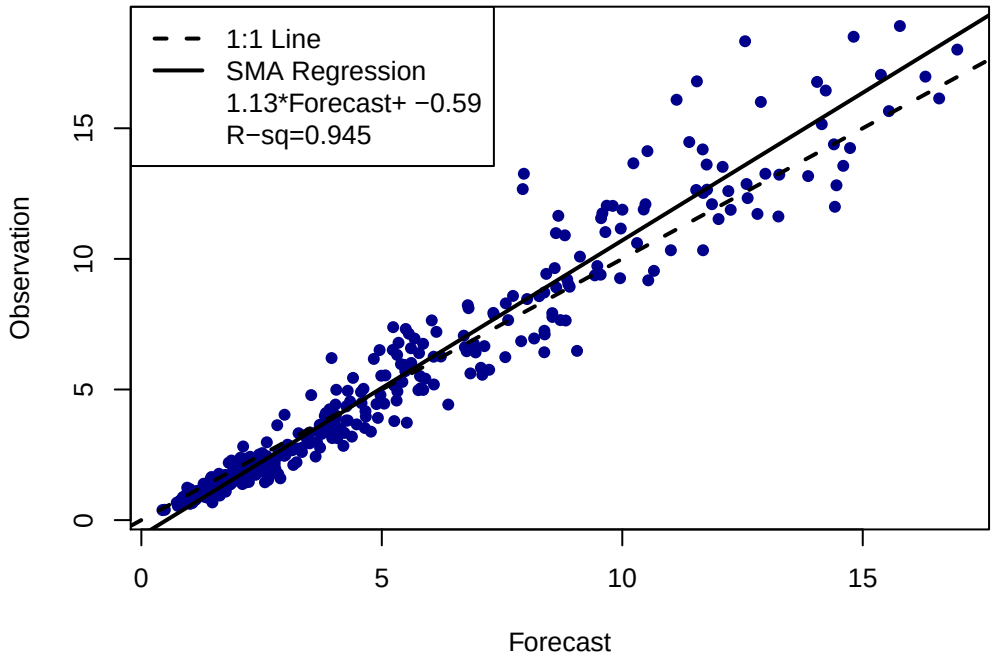


SH(mmol/mol) at 2m: CMA Obs Station # 53068 43.65 degN 111.97 degE vs Forecast at 43.751 degN 112.084 degE
2006 All Times Local (UTC+8)

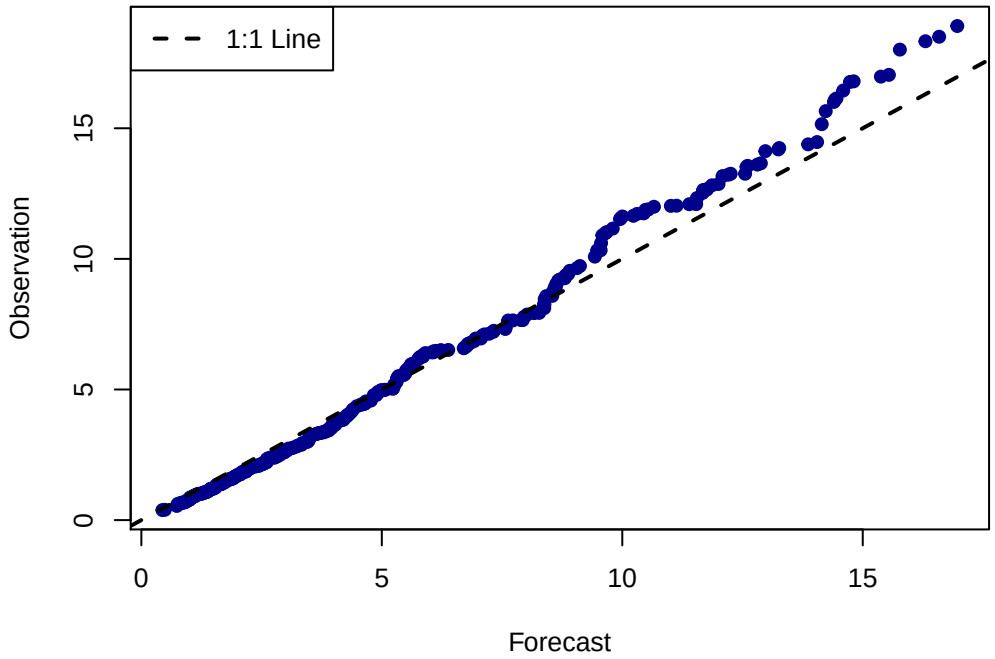


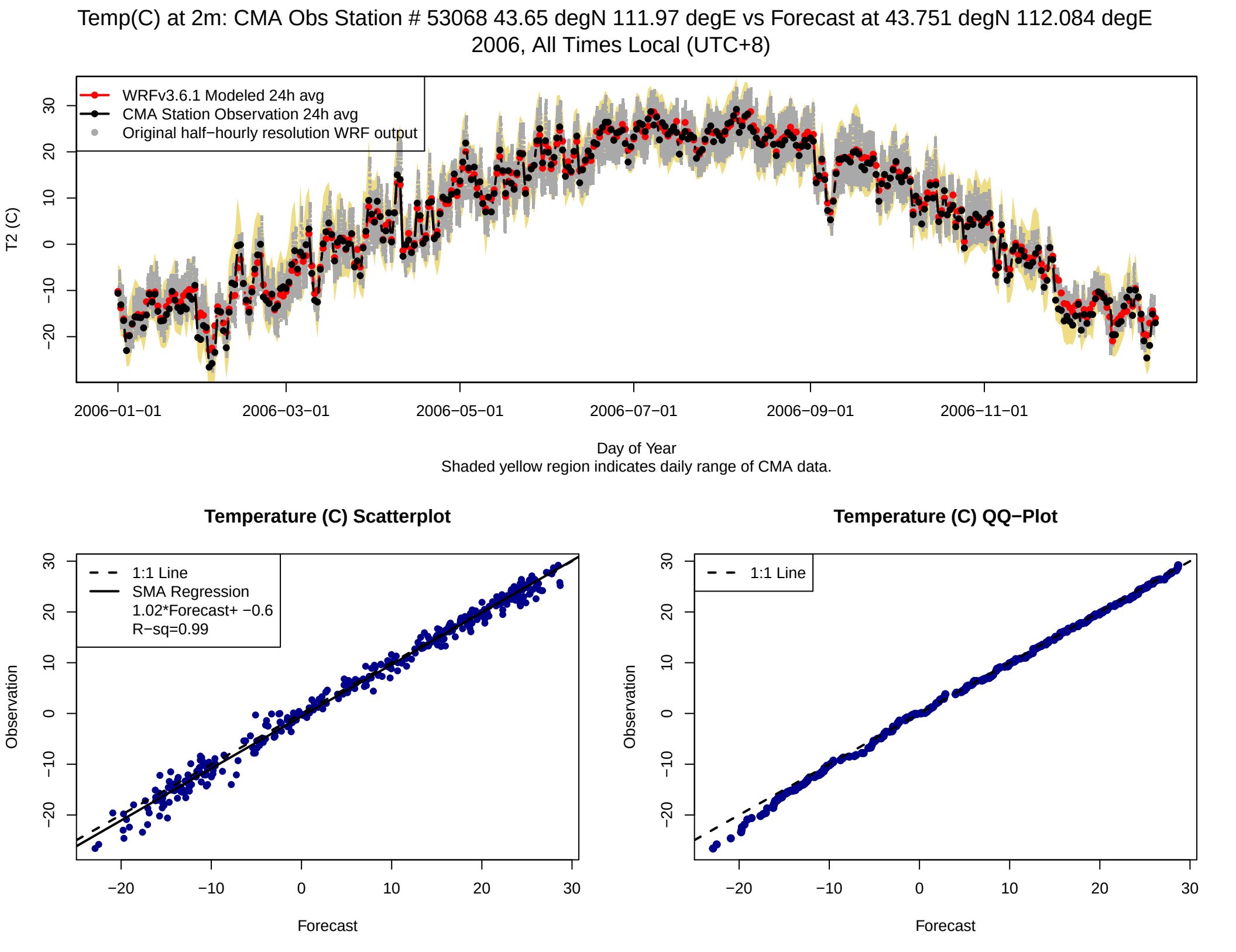
Shaded yellow region indicates daily range of CMA data. (No daily max available for SH)

Specific Humidity (mmol/mol) Scatterplot

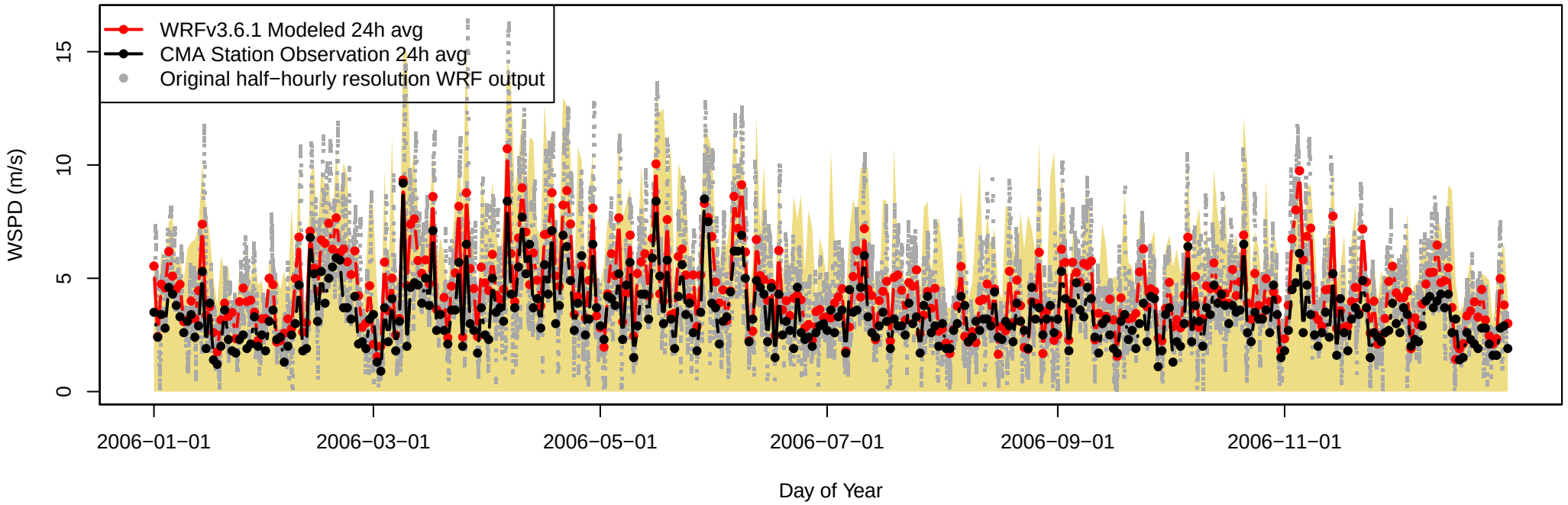


Specific Humidity (mmol/mol) QQ−Plot

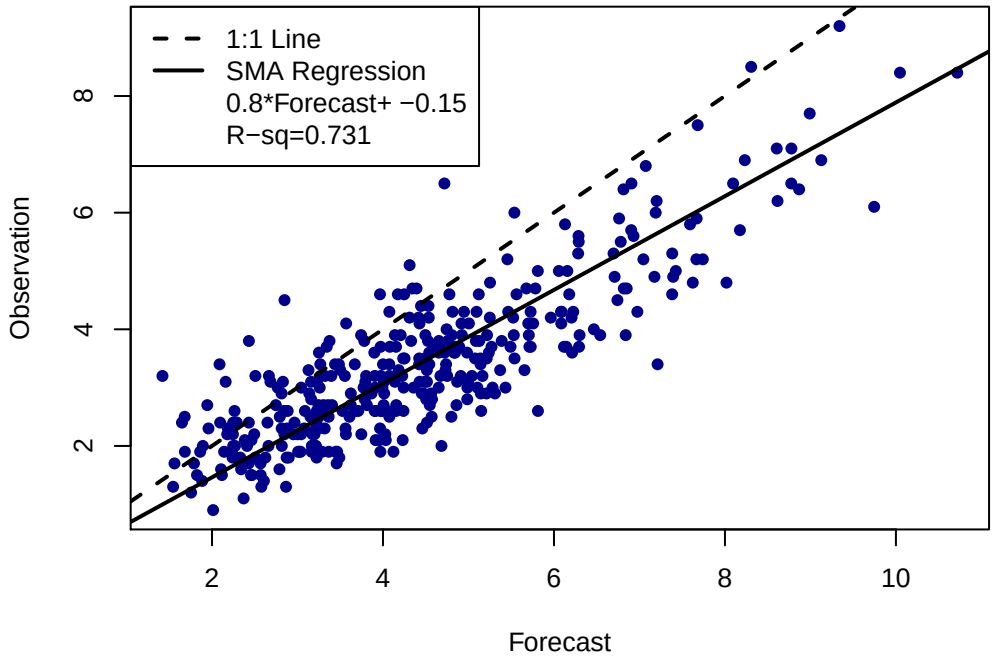


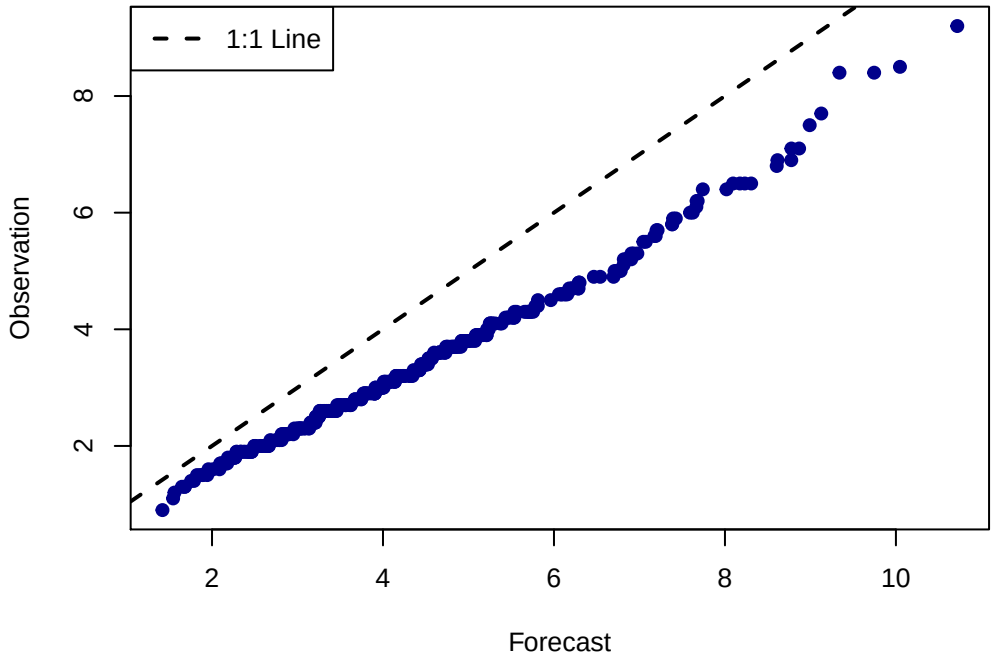

Temp(C) at 2m: CMA Obs Station # 53068 43.65 degN 111.97 degE vs Forecast at 43.751 degN 112.084 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
T2 (C)
30
20
10
0
−10
−20
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data.
Temperature (C) Scatterplot
1:1 Line
SMA Regression
1.02*Forecast+ −0.6
R−sq=0.99
Observation
Forecast
−20
−10
0
10
20
30
Temperature (C) QQ−Plot
1:1 Line
Observation
Forecast

Wind Speed (m/s) at 10m: CMA Obs Station # 53068 43.65 degN 111.97 degE vs Forecast at 43.751 degN 112.084 degE
2006, All Times Local (UTC+8)

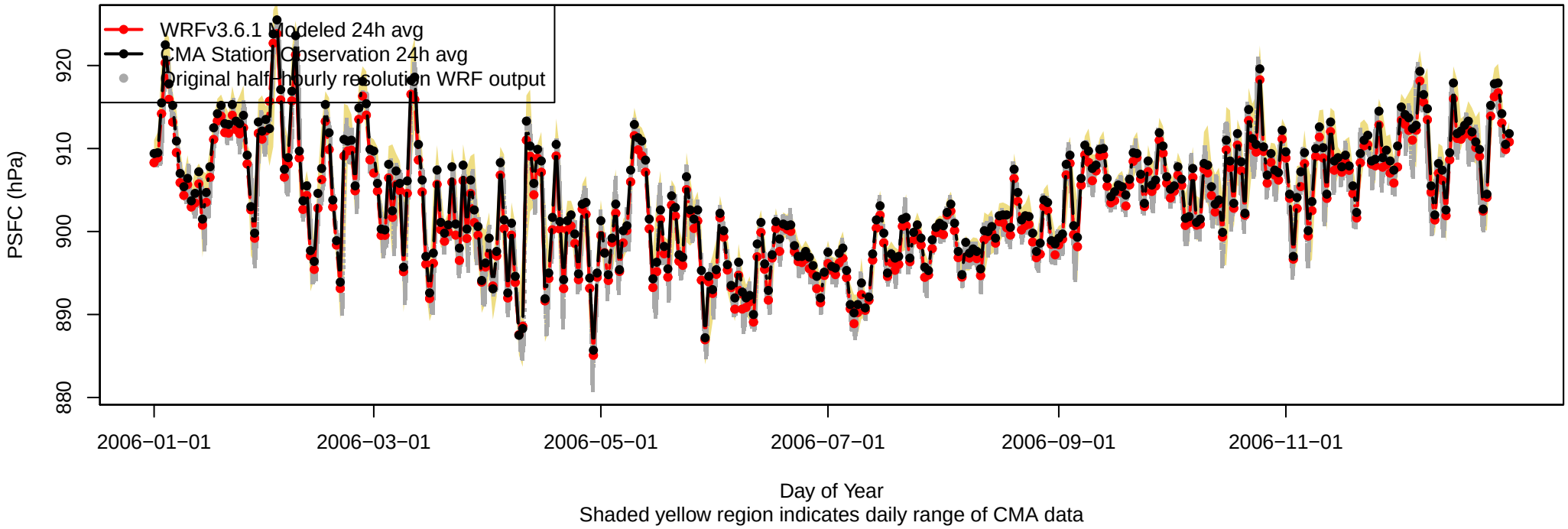


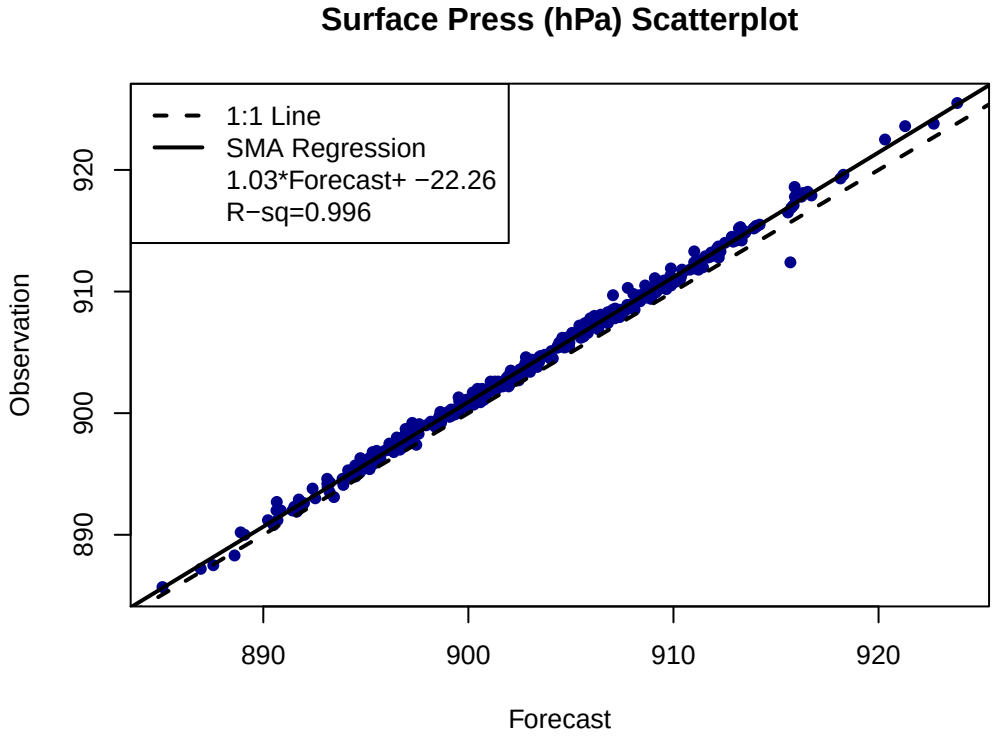
Shaded yellow region indicates daily range of CMA data. Min daily WSPD unavailable but assumed (and set at) 0.

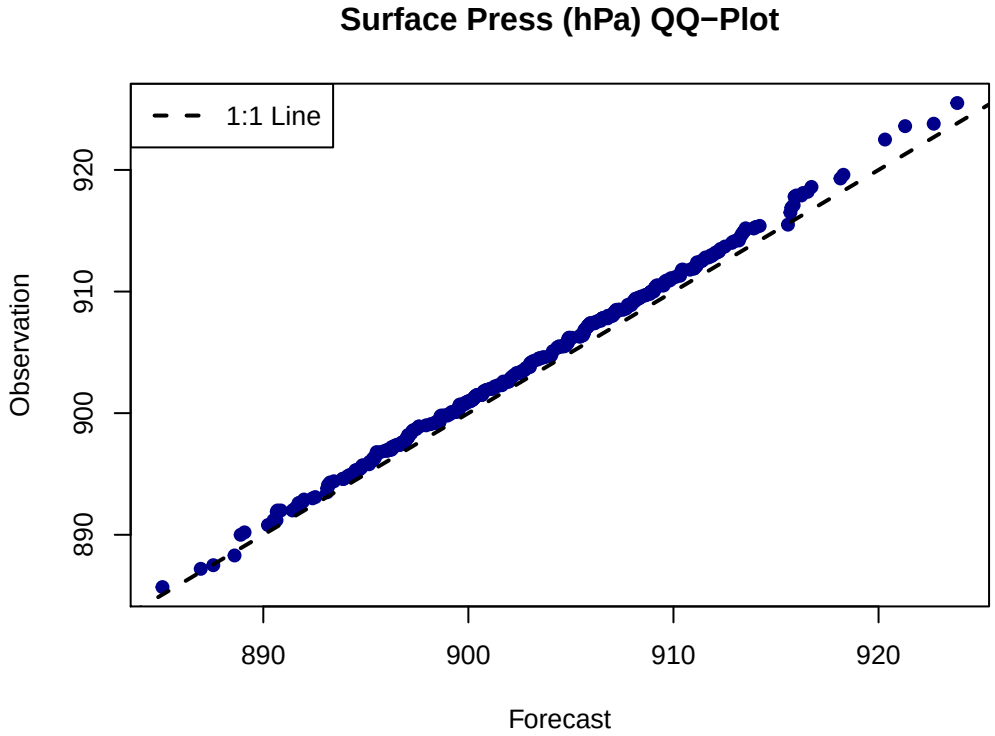




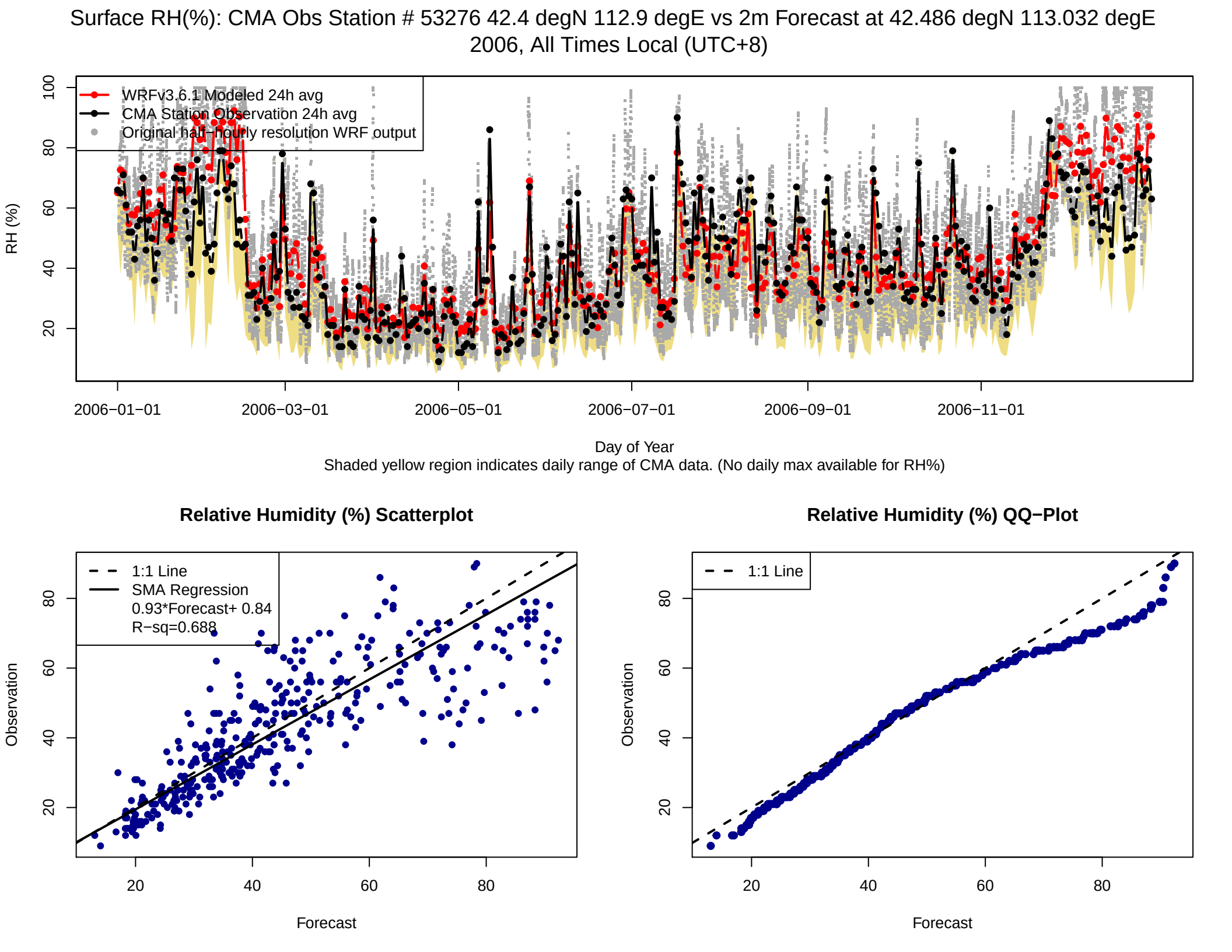
Surface Press (hPa): CMA Obs Station # 53068 43.65 degN 111.97 degE vs Forecast at 43.751 degN 112.084 degE
2006, All Times Local (UTC+8)

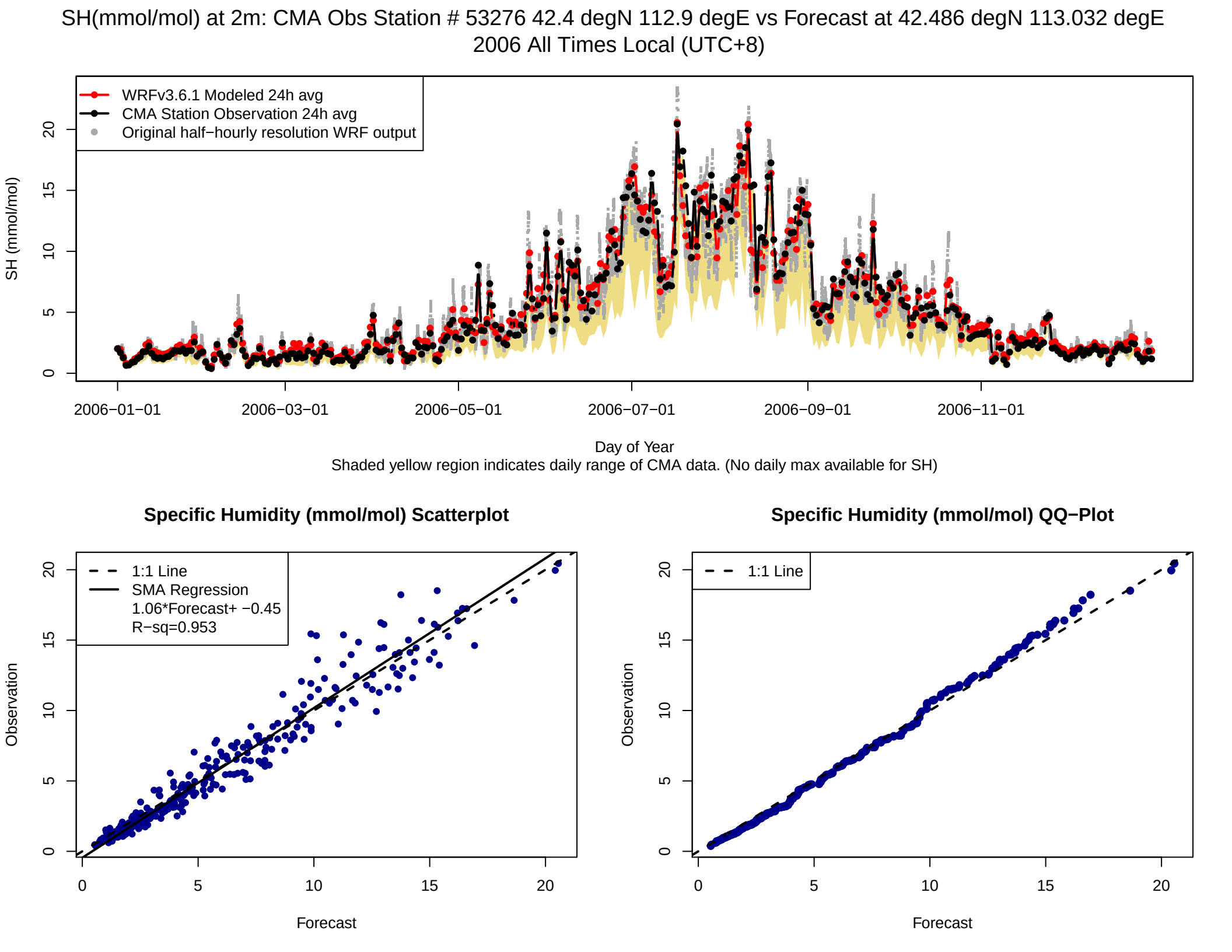


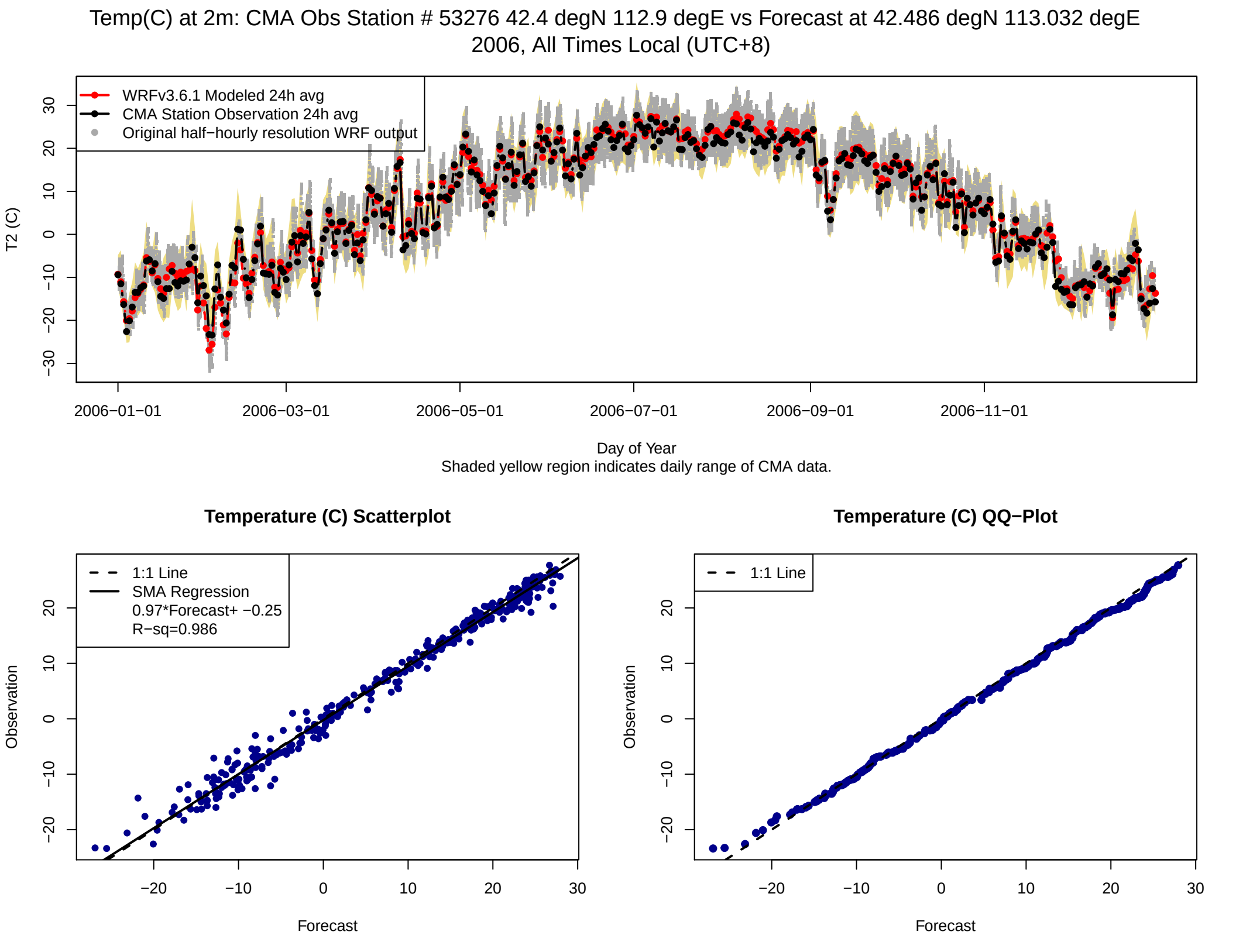




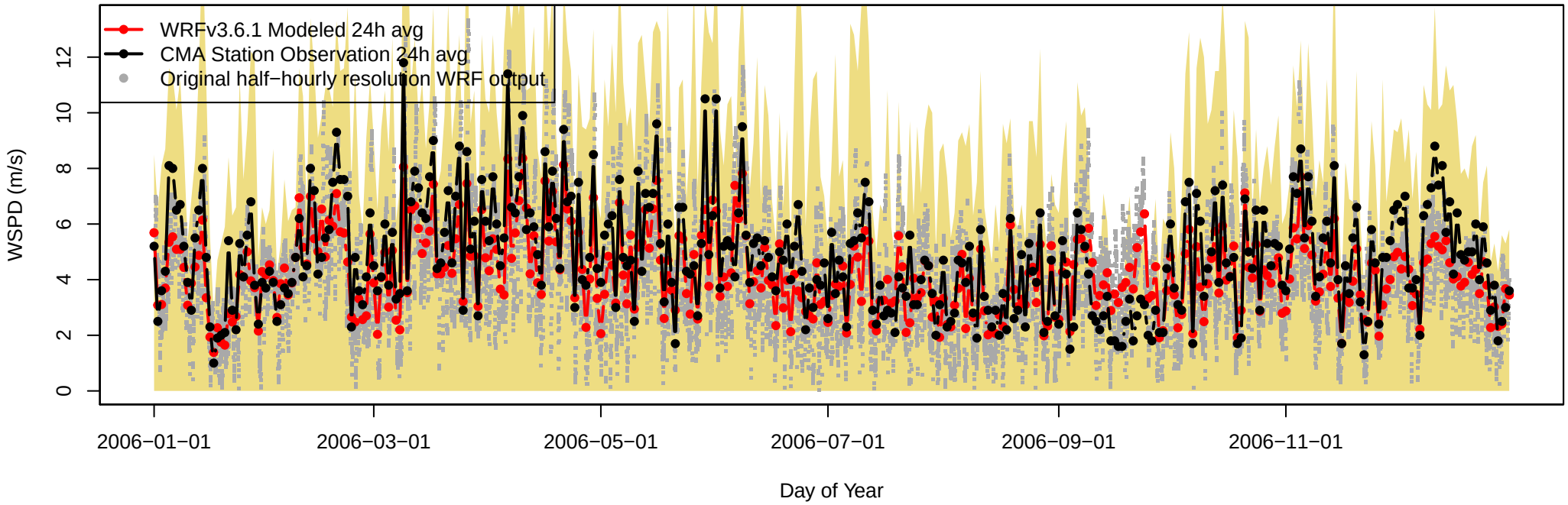
CMA Obs Station # 53276 42.4 degN 112.9 degE
vs Forecast at 42.486 degN 113.032 degE
2006, All Times Local (UTC+8)


Surface RH(%): CMA Obs Station # 53276 42.4 degN 112.9 degE vs 2m Forecast at 42.486 degN 113.032 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half-hourly resolution WRF output
RH (%)
2006-01-01
2006-03-01
2006-05-01
2006-07-01
2006-09-01
2006-11-01
Day of Year
Shaded yellow region indicates daily range of CMA data. (No daily max available for RH%)
Relative Humidity (%) Scatterplot
1:1 Line
SMA Regression
0.93*Forecast+ 0.84
R-sq=0.688
Observation
Forecast
Relative Humidity (%) QQ-Plot
1:1 Line
Observation
Forecast


SH(mmol/mol) at 2m: CMA Obs Station # 53276 42.4 degN 112.9 degE vs Forecast at 42.486 degN 113.032 degE
2006 All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
SH (mmol/mol)
0
5
10
15
20
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data. (No daily max available for SH)
Specific Humidity (mmol/mol) Scatterplot
1:1 Line
SMA Regression
1.06*Forecast+ −0.45
R−sq=0.953
Observation
Forecast
Specific Humidity (mmol/mol) QQ−Plot
1:1 Line
Observation
Forecast

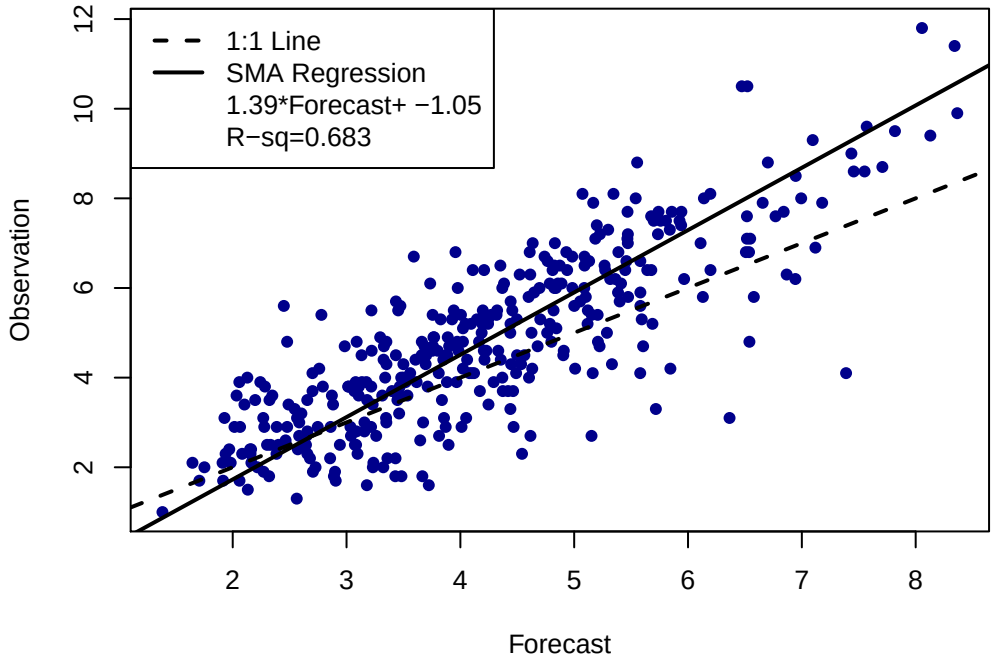

Temp(C) at 2m: CMA Obs Station # 53276 42.4 degN 112.9 degE vs Forecast at 42.486 degN 113.032 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
T2 (C)
30
20
10
0
−10
−20
−30
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data.
Temperature (C) Scatterplot
1:1 Line
SMA Regression
0.97*Forecast+ −0.25
R−sq=0.986
Observation
Forecast
−20
−10
0
10
20
30
Temperature (C) QQ−Plot
1:1 Line
Observation
Forecast

Wind Speed (m/s) at 10m: CMA Obs Station # 53276 42.4 degN 112.9 degE vs Forecast at 42.486 degN 113.032 degE
2006, All Times Local (UTC+8)

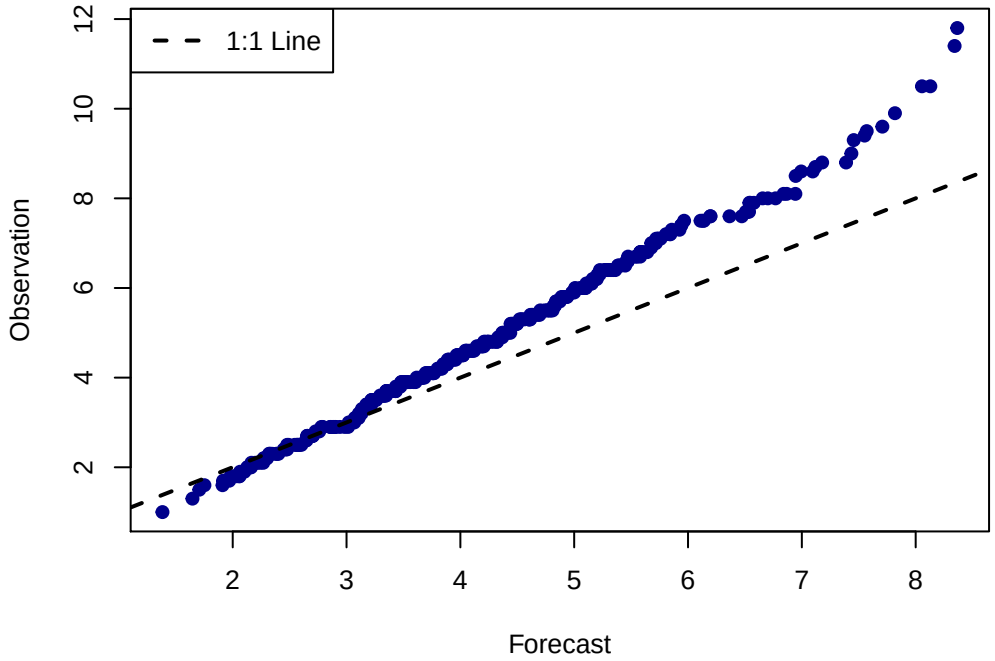


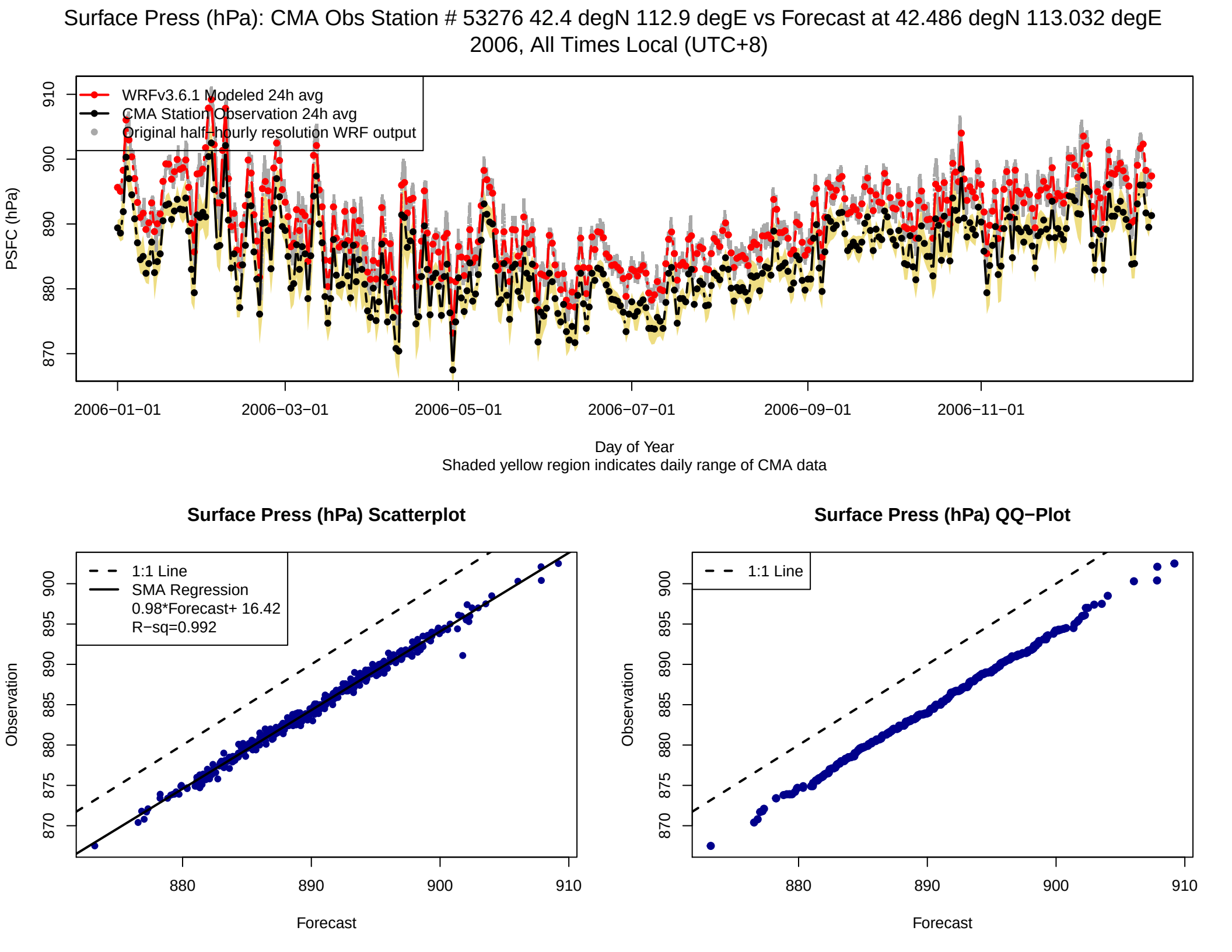
Shaded yellow region indicates daily range of CMA data. Min daily WSPD unavailable but assumed (and set at) 0.

Wind Speed (m/s) Scatterplot

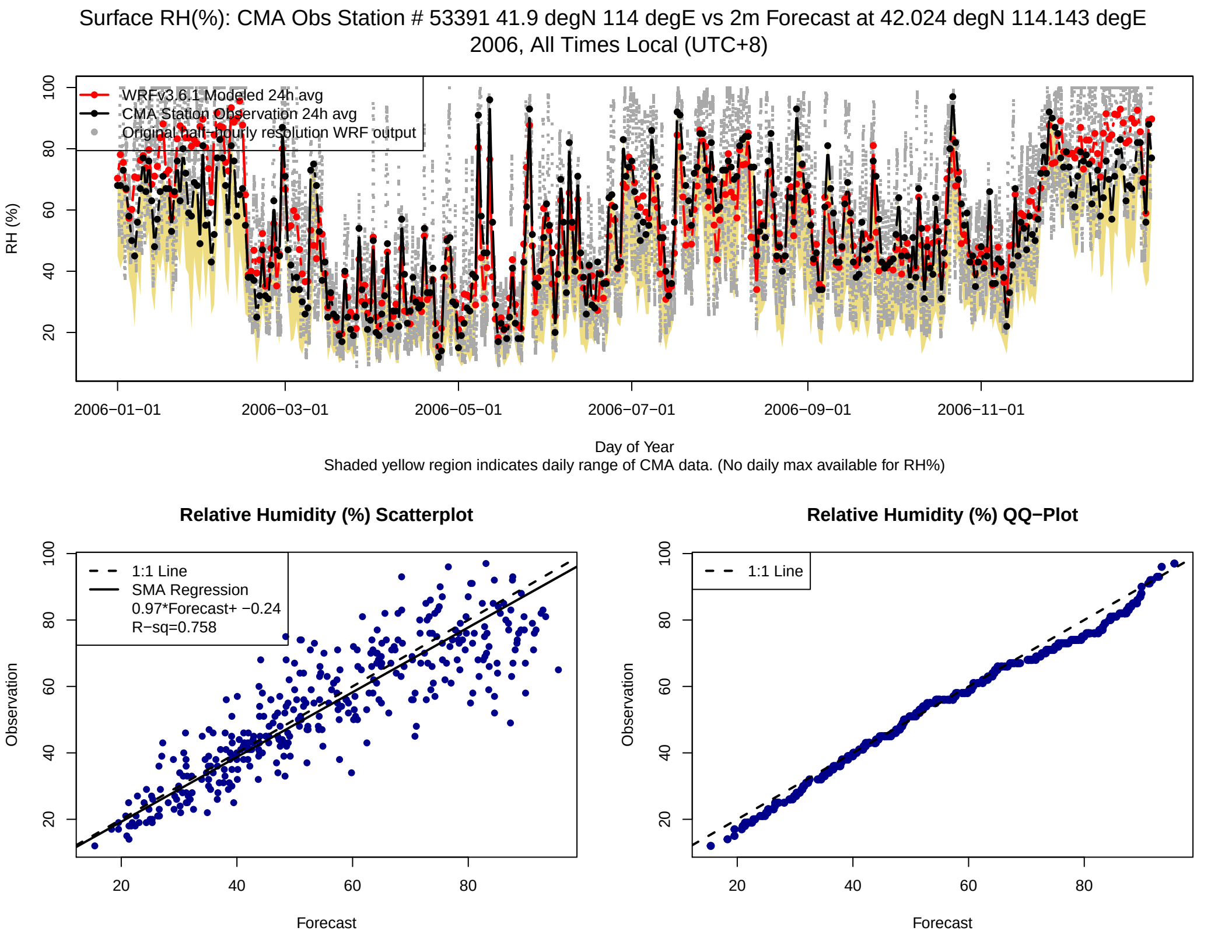


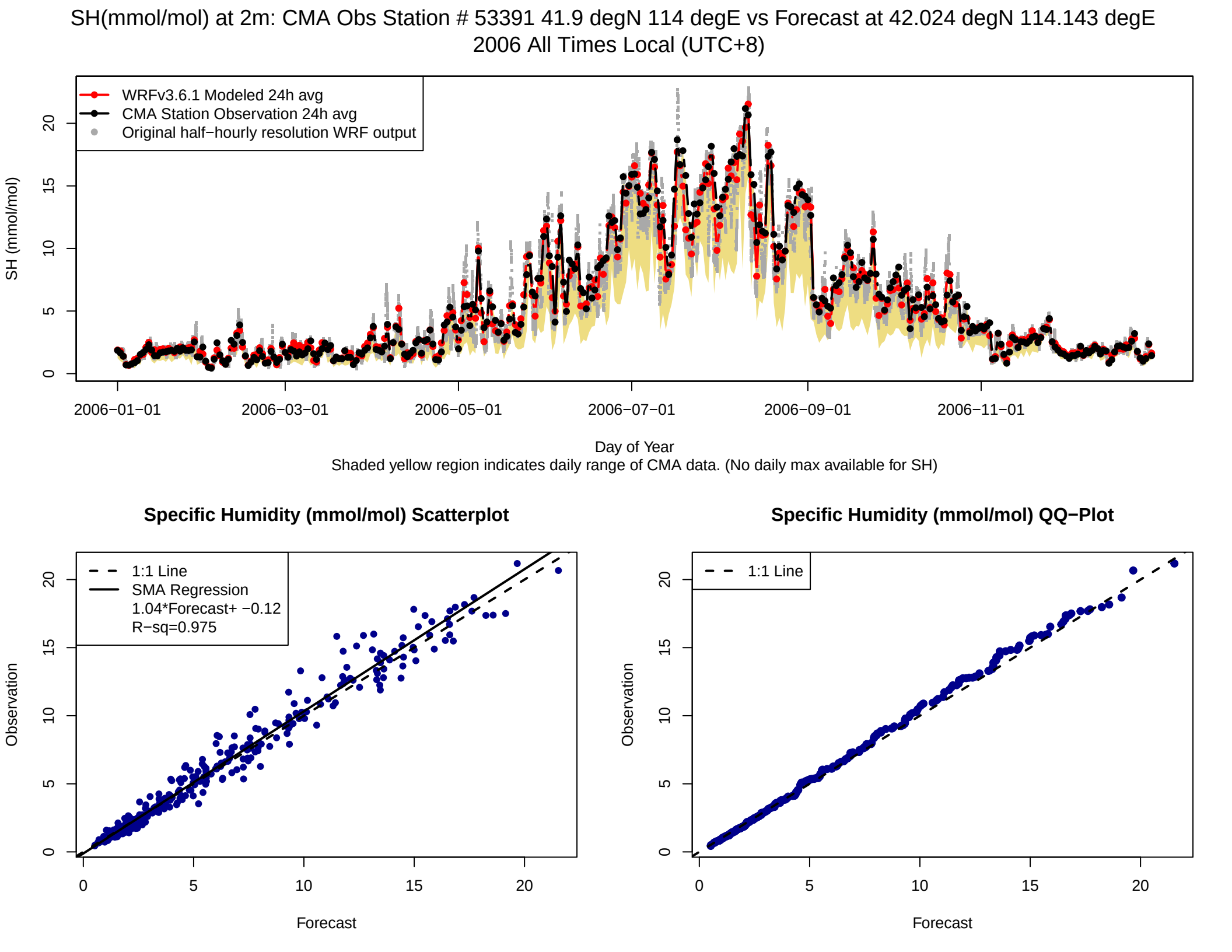
Wind Speed (m/s) QQ−Plot

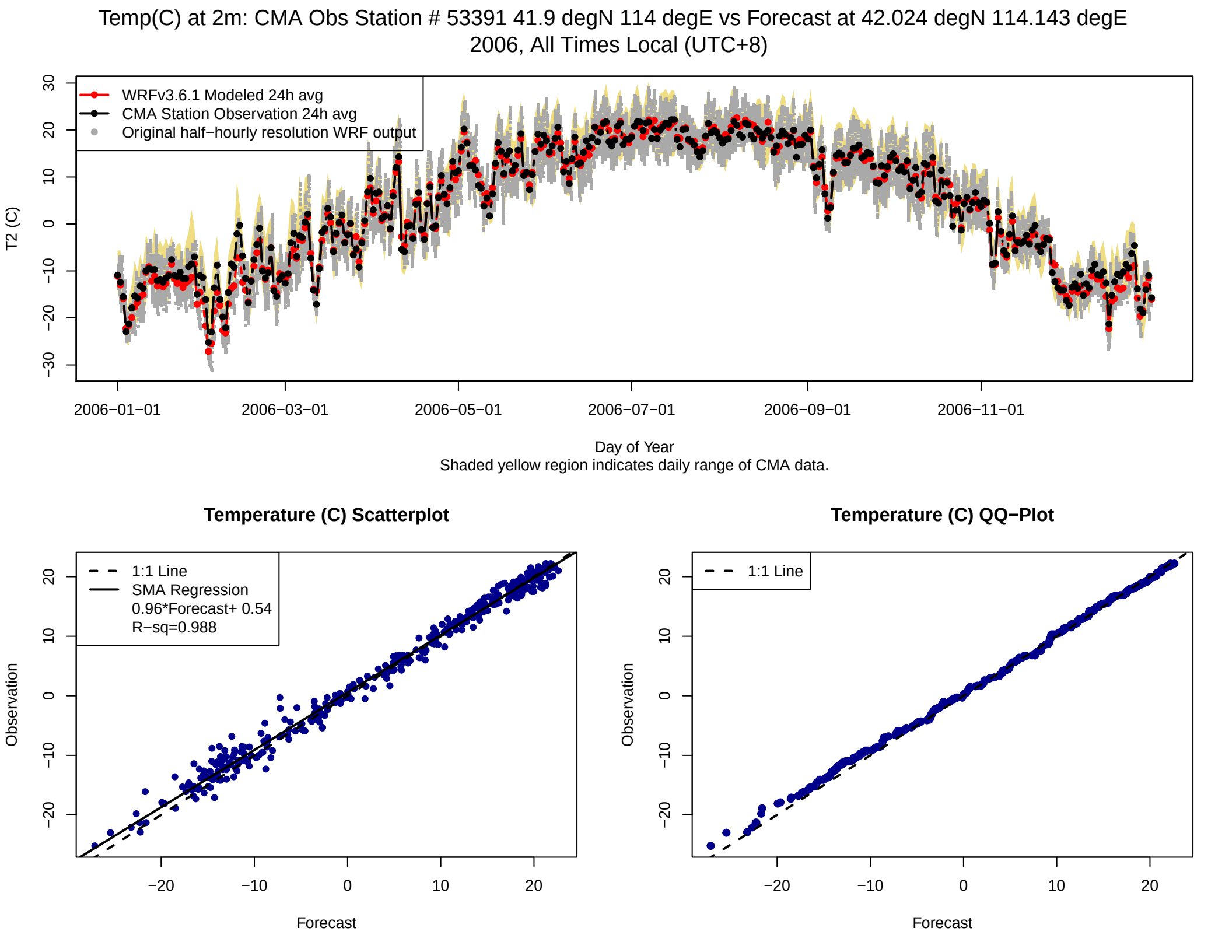


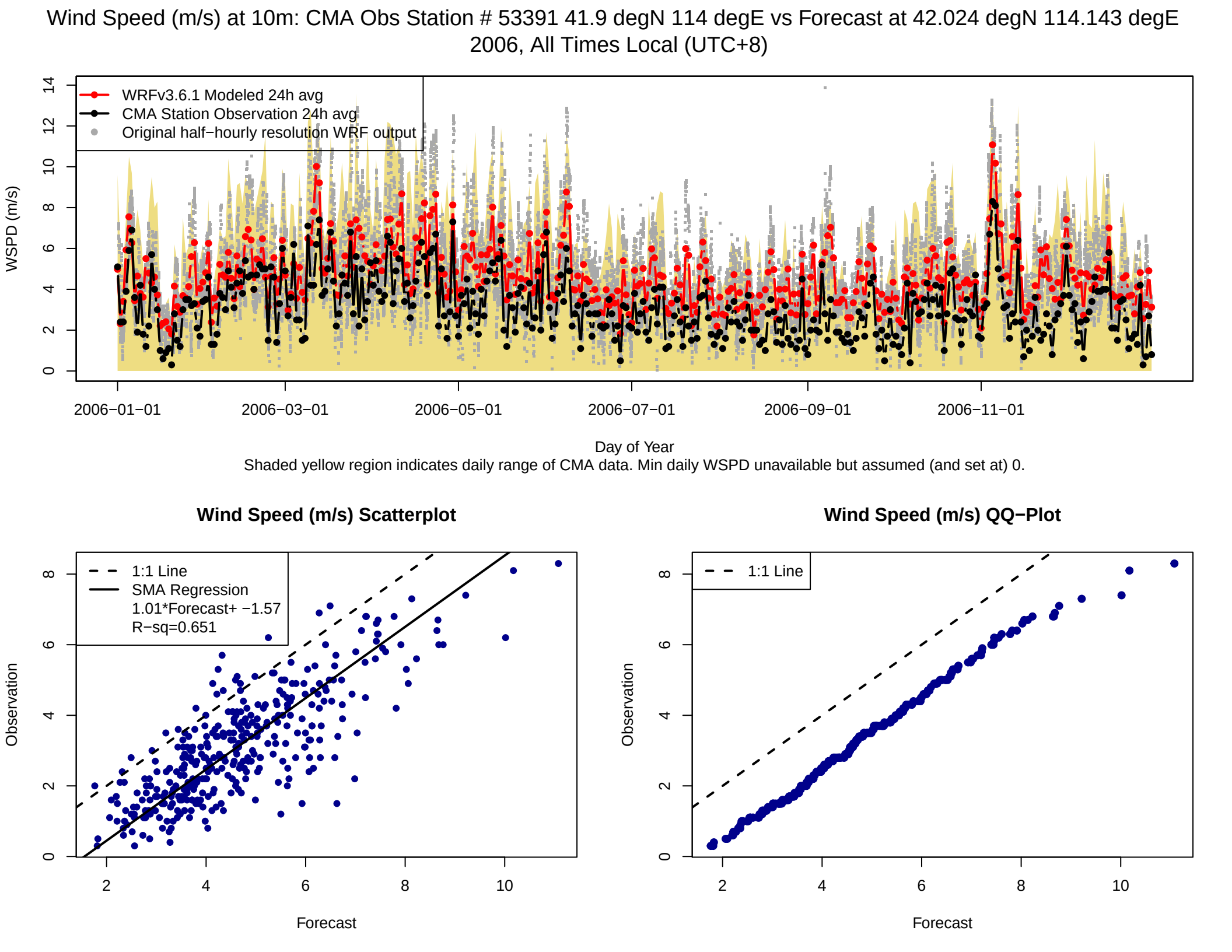

Surface Press (hPa): CMA Obs Station # 53276 42.4 degN 112.9 degE vs Forecast at 42.486 degN 113.032 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half-hourly resolution WRF output
PSFC (hPa)
910
900
890
880
870
2006-01-01
2006-03-01
2006-05-01
2006-07-01
2006-09-01
2006-11-01
Day of Year
Shaded yellow region indicates daily range of CMA data
Surface Press (hPa) Scatterplot
1:1 Line
SMA Regression
0.98*Forecast+ 16.42
R-sq=0.992
Observation
Forecast
Surface Press (hPa) QQ-Plot
1:1 Line
Observation
Forecast

CMA Obs Station # 53391 41.9 degN 114 degE
vs Forecast at 42.024 degN 114.143 degE
2006, All Times Local (UTC+8)

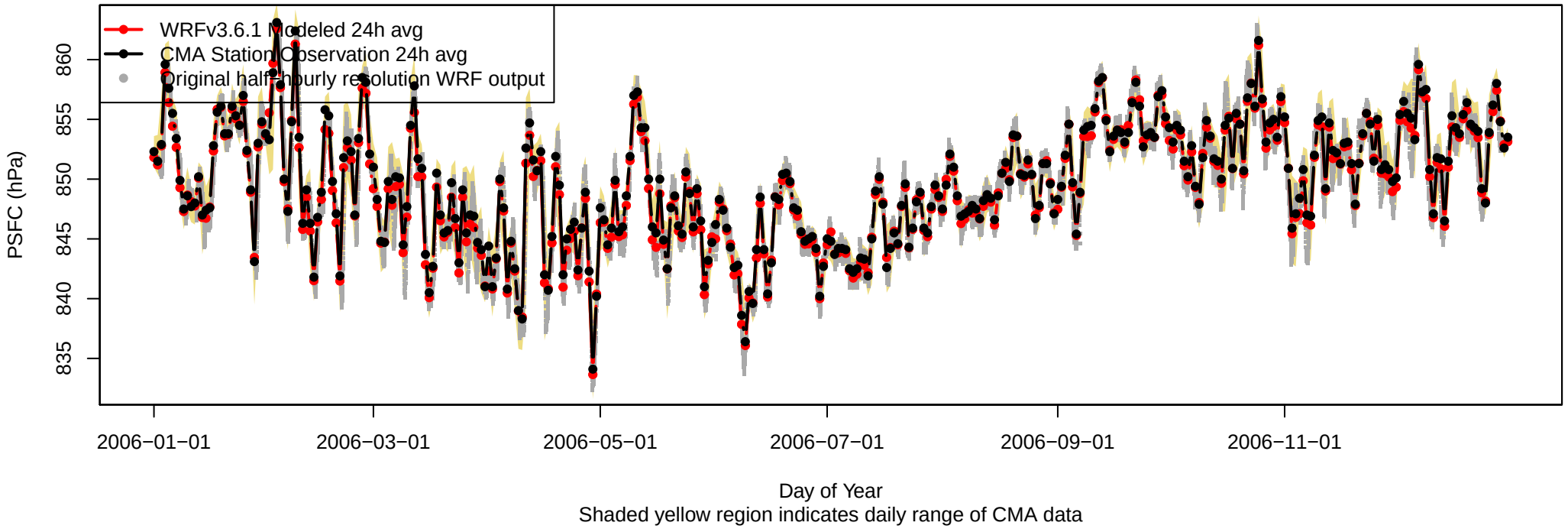

Surface RH(%): CMA Obs Station # 53391 41.9 degN 114 degE vs 2m Forecast at 42.024 degN 114.143 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half-hourly resolution WRF output
RH (%)
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data. (No daily max available for RH%)
Relative Humidity (%) Scatterplot
1:1 Line
SMA Regression
0.97*Forecast+ −0.24
R−sq=0.758
Observation
Forecast
Relative Humidity (%) QQ−Plot
1:1 Line
Observation
Forecast

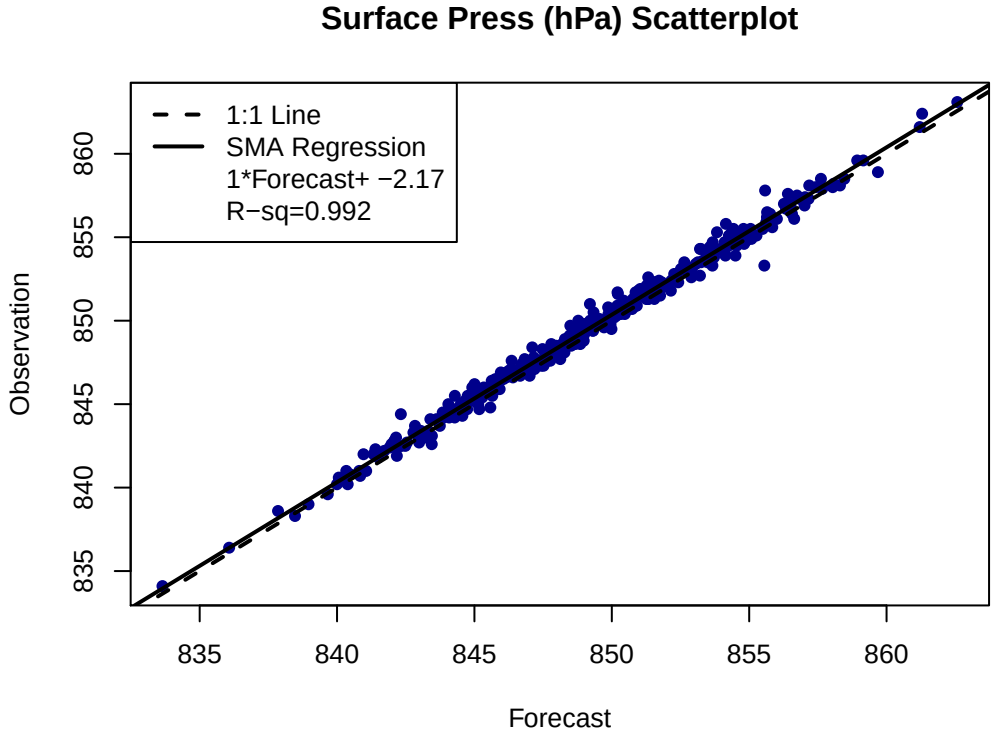

SH(mmol/mol) at 2m: CMA Obs Station # 53391 41.9 degN 114 degE vs Forecast at 42.024 degN 114.143 degE
2006 All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
SH (mmol/mol)
0
5
10
15
20
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data. (No daily max available for SH)
Specific Humidity (mmol/mol) Scatterplot
1:1 Line
SMA Regression
1.04*Forecast+ −0.12
R−sq=0.975
Observation
Forecast
Specific Humidity (mmol/mol) QQ−Plot
1:1 Line
Observation
Forecast

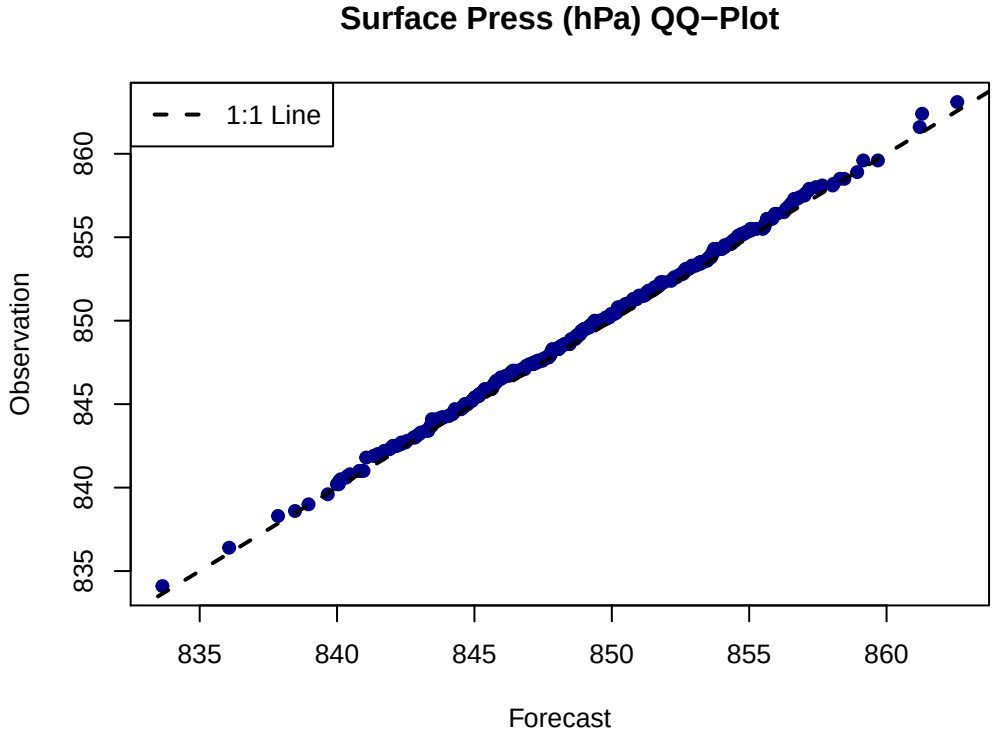

Temp(C) at 2m: CMA Obs Station # 53391 41.9 degN 114 degE vs Forecast at 42.024 degN 114.143 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
T2 (C)
30
20
10
0
−10
−20
−30
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data.
Temperature (C) Scatterplot
1:1 Line
SMA Regression
0.96*Forecast+ 0.54
R−sq=0.988
Observation
Forecast
−20
−10
0
10
20
Temperature (C) QQ−Plot
1:1 Line
Observation
Forecast


Wind Speed (m/s) at 10m: CMA Obs Station # 53391 41.9 degN 114 degE vs Forecast at 42.024 degN 114.143 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
WSPD (m/s)
0
2
4
6
8
10
12
14
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data. Min daily WSPD unavailable but assumed (and set at) 0.
Wind Speed (m/s) Scatterplot
1:1 Line
SMA Regression
1.01*Forecast+ −1.57
R−sq=0.651
Observation
Forecast
0
2
4
6
8
10
Wind Speed (m/s) QQ−Plot
1:1 Line
Observation
Forecast

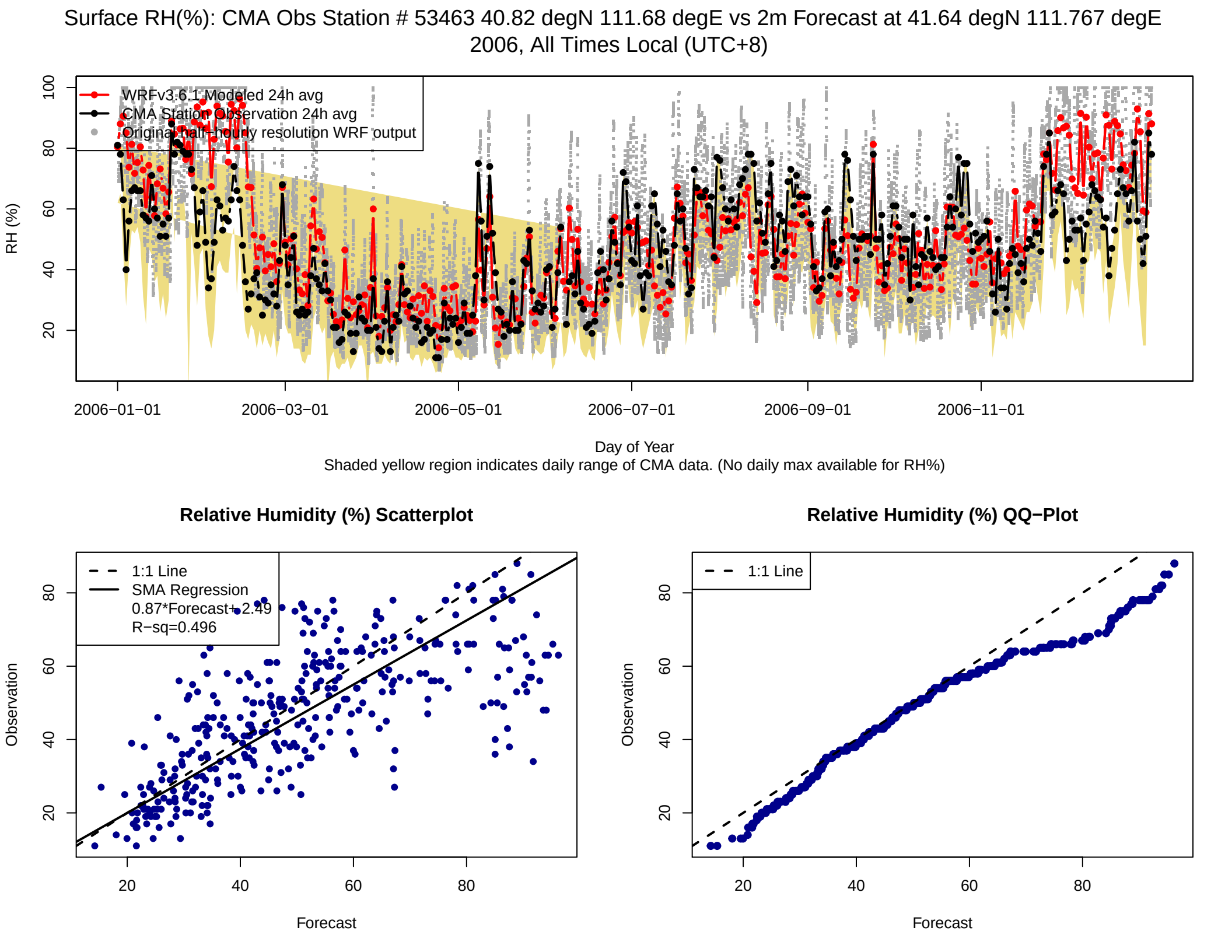
Surface Press (hPa): CMA Obs Station # 53391 41.9 degN 114 degE vs Forecast at 42.024 degN 114.143 degE
2006, All Times Local (UTC+8)



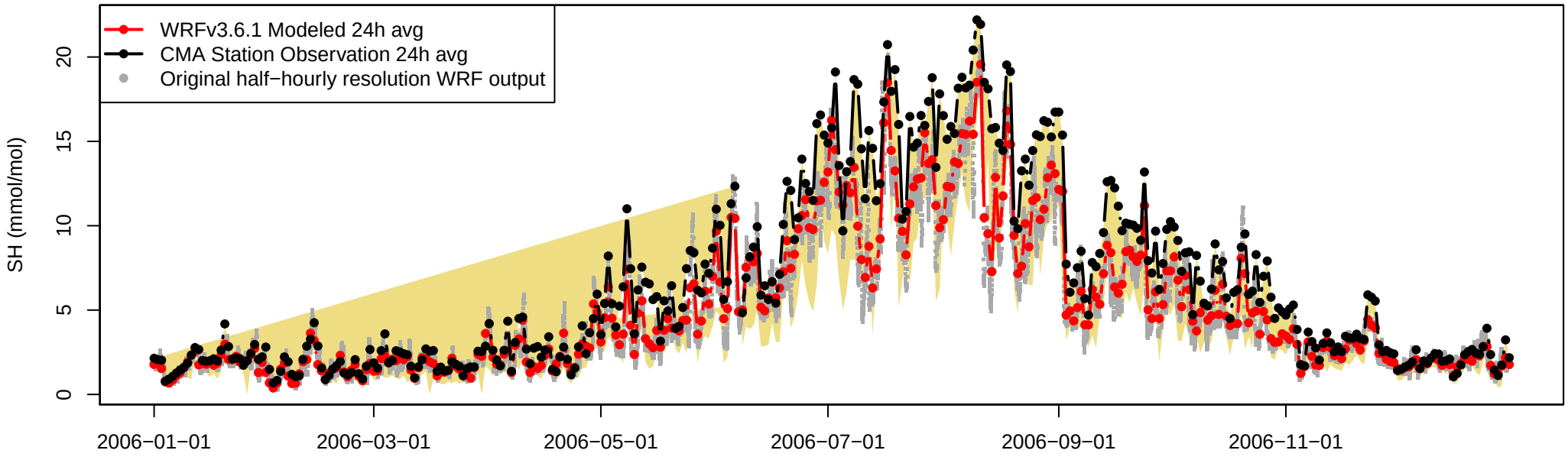




CMA Obs Station # 53463 40.82 degN 111.68 degE
vs Forecast at 41.64 degN 111.767 degE
2006, All Times Local (UTC+8)

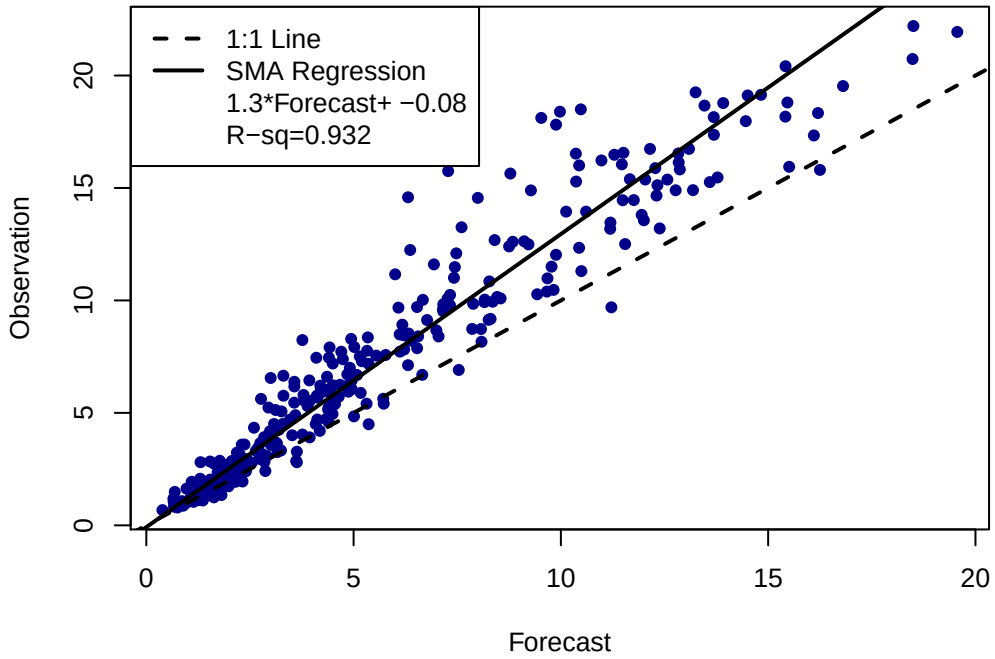

Surface RH(%): CMA Obs Station # 53463 40.82 degN 111.68 degE vs 2m Forecast at 41.64 degN 111.767 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half-hourly resolution WRF output
RH (%)
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data. (No daily max available for RH%)
Relative Humidity (%) Scatterplot
1:1 Line
SMA Regression
0.87*Forecast+2.49
R−sq=0.496
Observation
Forecast
Relative Humidity (%) QQ−Plot
1:1 Line
Observation
Forecast

SH(mmol/mol) at 2m: CMA Obs Station # 53463 40.82 degN 111.68 degE vs Forecast at 41.64 degN 111.767 degE
2006 All Times Local (UTC+8)

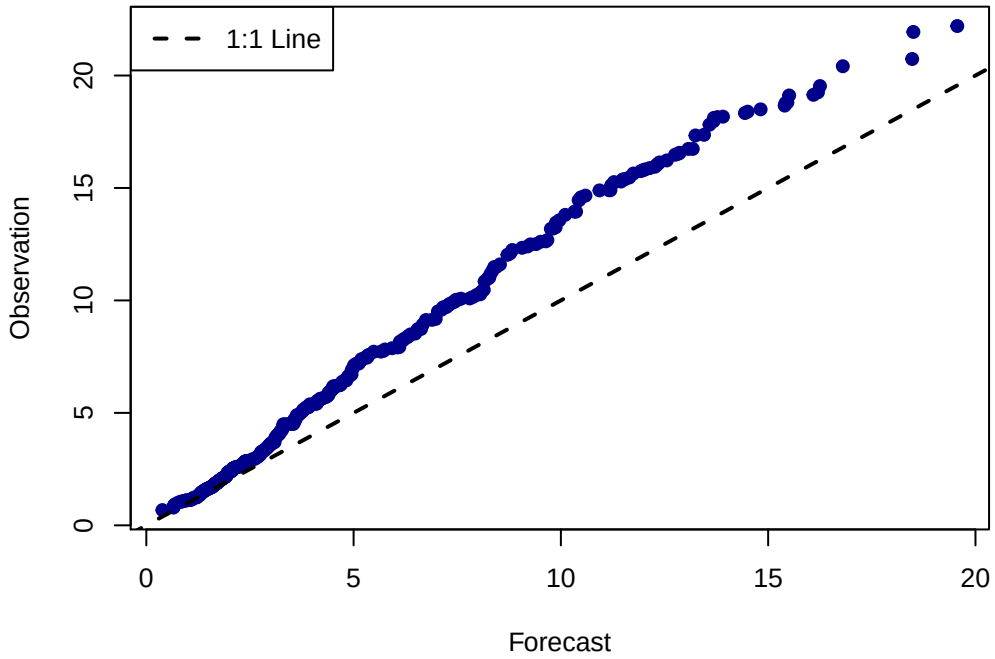


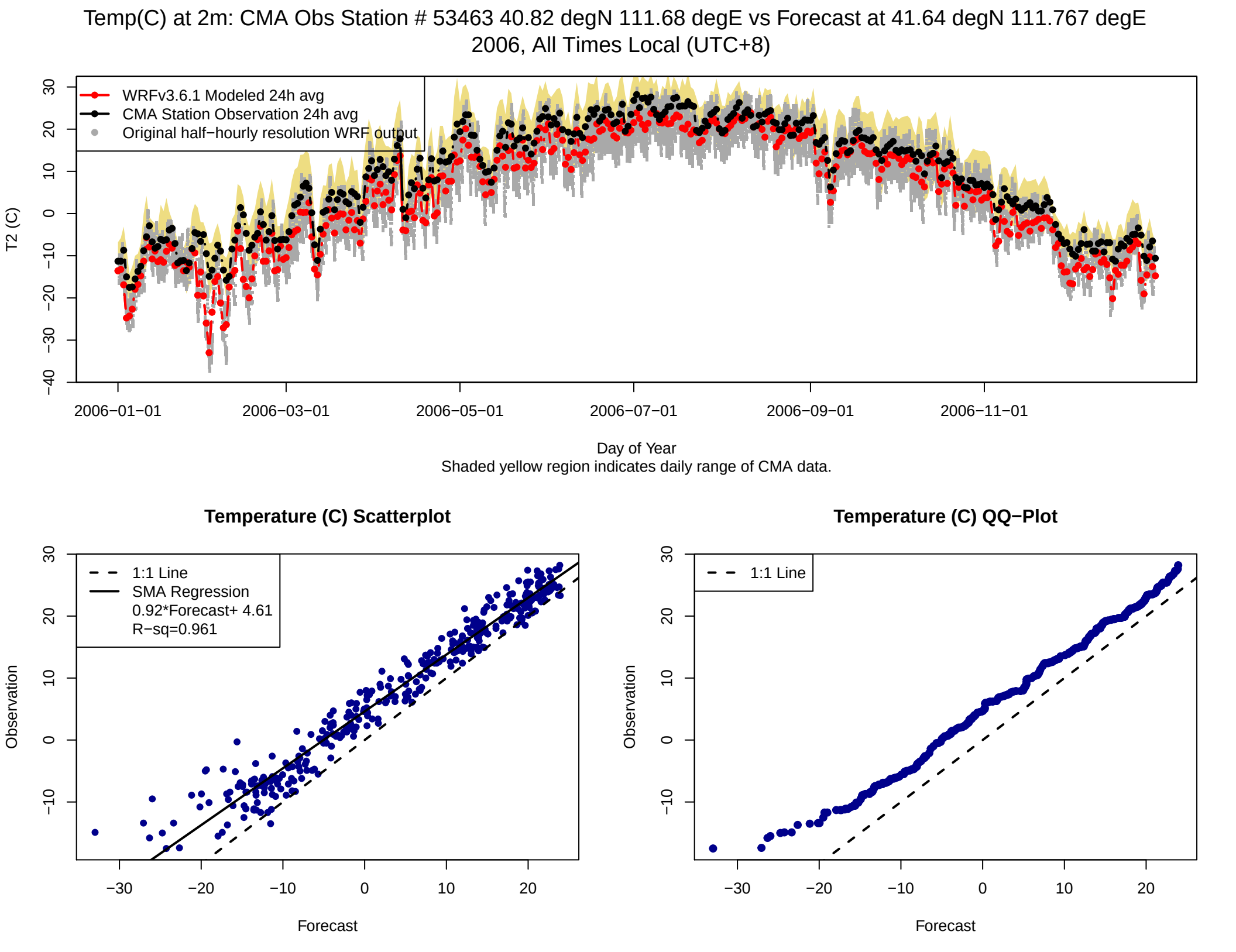
Shaded yellow region indicates daily range of CMA data. (No daily max available for SH)

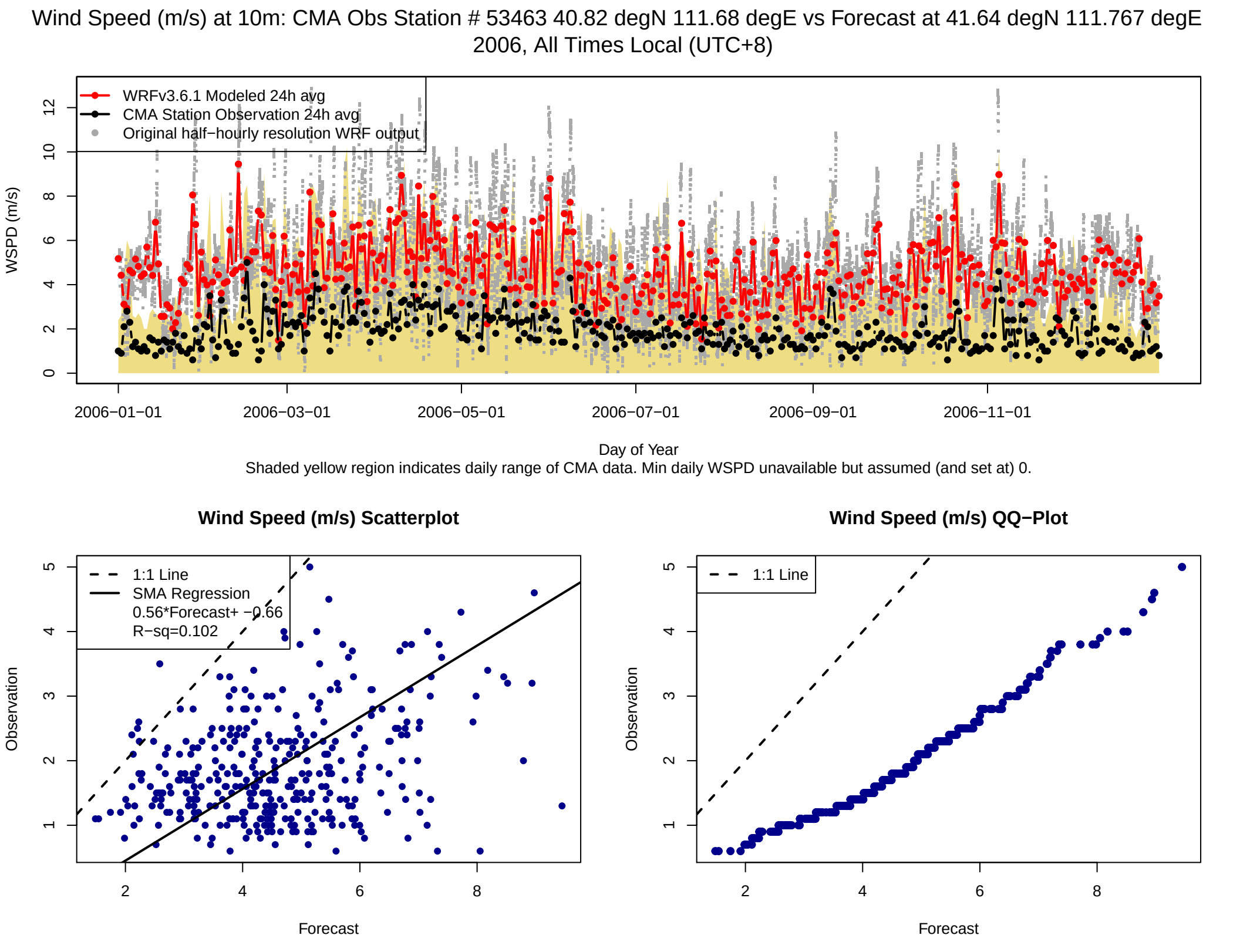
Specific Humidity (mmol/mol) Scatterplot



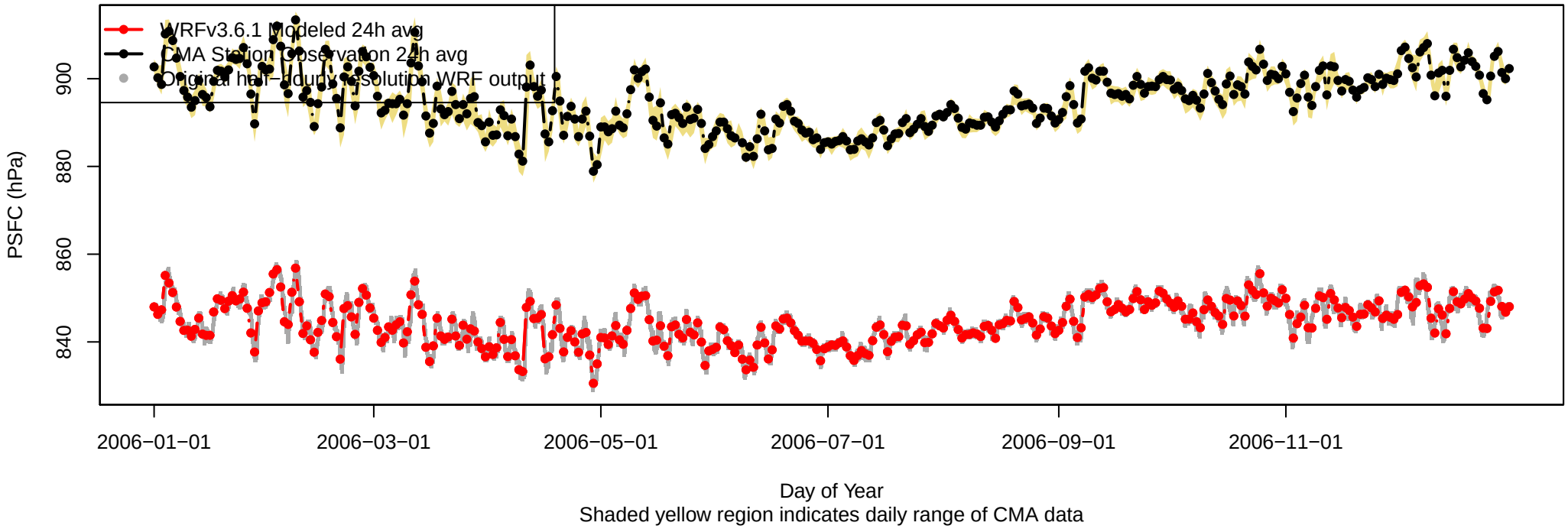
Specific Humidity (mmol/mol) QQ−Plot



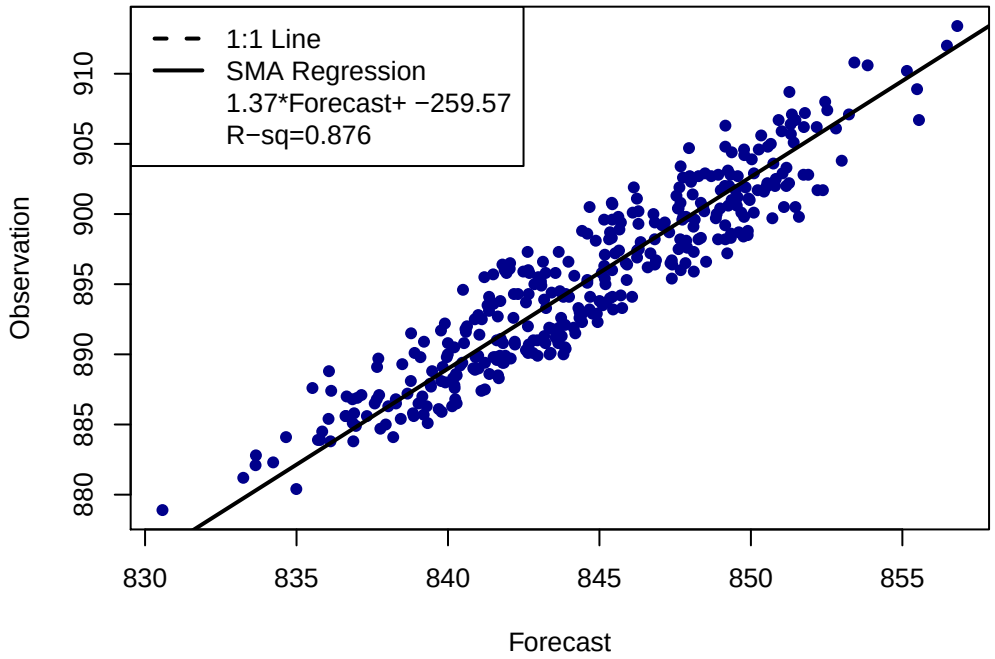

Temp(C) at 2m: CMA Obs Station # 53463 40.82 degN 111.68 degE vs Forecast at 41.64 degN 111.767 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
T2 (C)
30
20
10
0
−10
−20
−30
−40
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data.
Temperature (C) Scatterplot
1:1 Line
SMA Regression
0.92*Forecast+ 4.61
R−sq=0.961
Observation
Forecast
−30
−20
−10
0
10
20
Temperature (C) QQ−Plot
1:1 Line
Observation
Forecast


Wind Speed (m/s) at 10m: CMA Obs Station # 53463 40.82 degN 111.68 degE vs Forecast at 41.64 degN 111.767 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
WSPD (m/s)
0
2
4
6
8
10
12
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data. Min daily WSPD unavailable but assumed (and set at) 0.
Wind Speed (m/s) Scatterplot
1:1 Line
SMA Regression
0.56*Forecast+ −0.66
R−sq=0.102
Observation
Forecast
1
2
3
4
5
2
4
6
8
Wind Speed (m/s) QQ−Plot
1:1 Line
Observation
Forecast

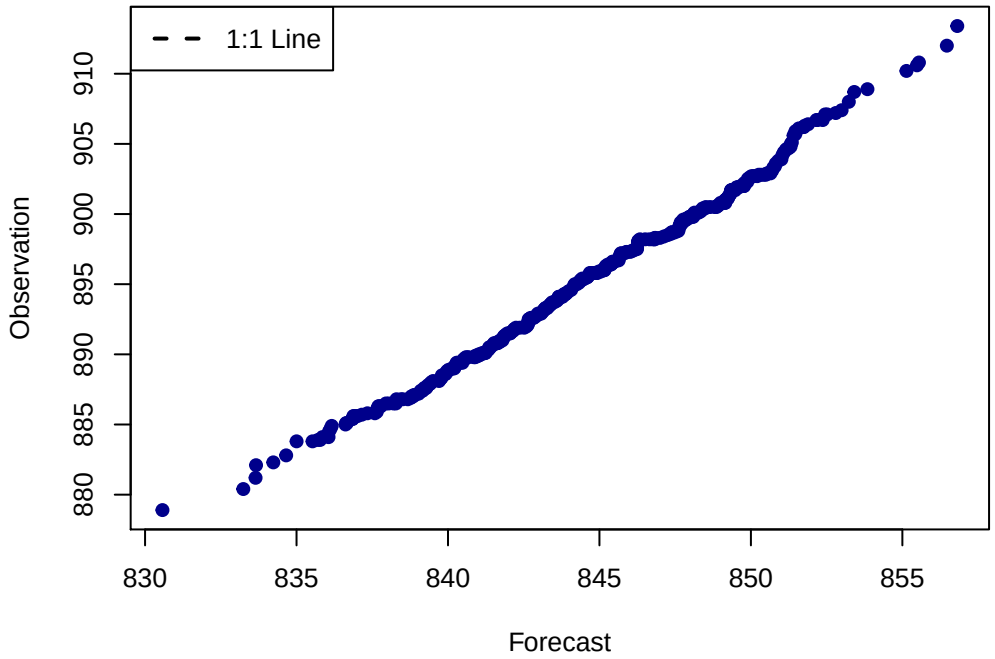
Surface Press (hPa): CMA Obs Station # 53463 40.82 degN 111.68 degE vs Forecast at 41.64 degN 111.767 degE
2006, All Times Local (UTC+8)



Surface Press (hPa) Scatterplot

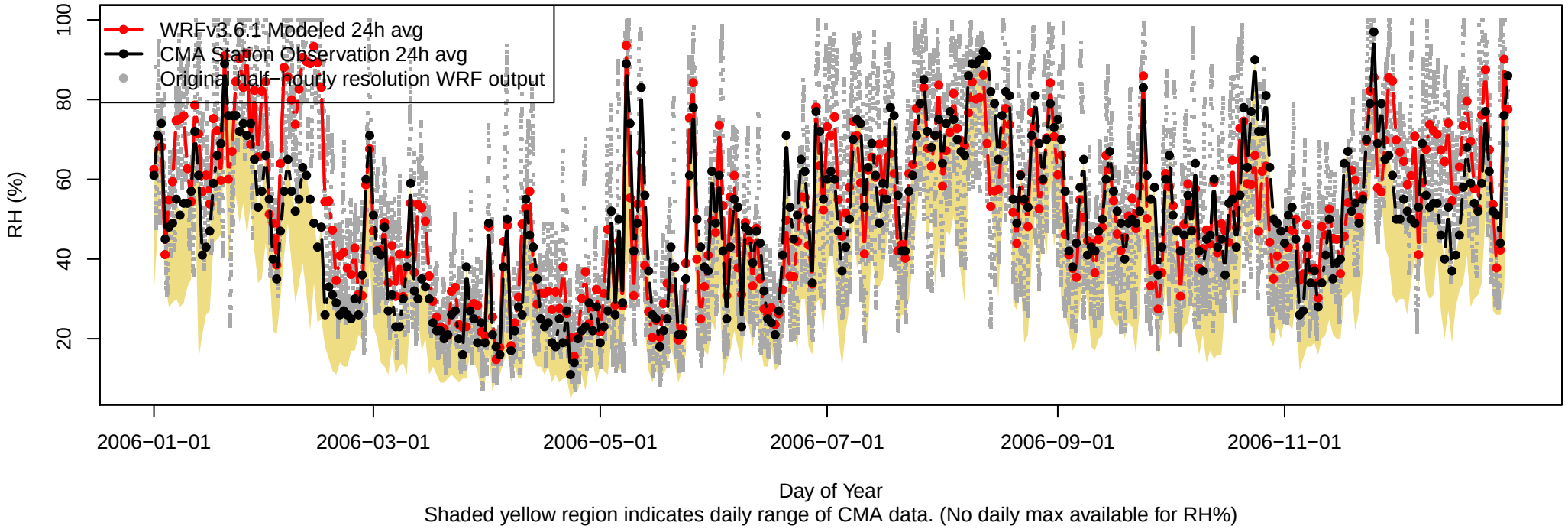


Surface Press (hPa) QQ−Plot



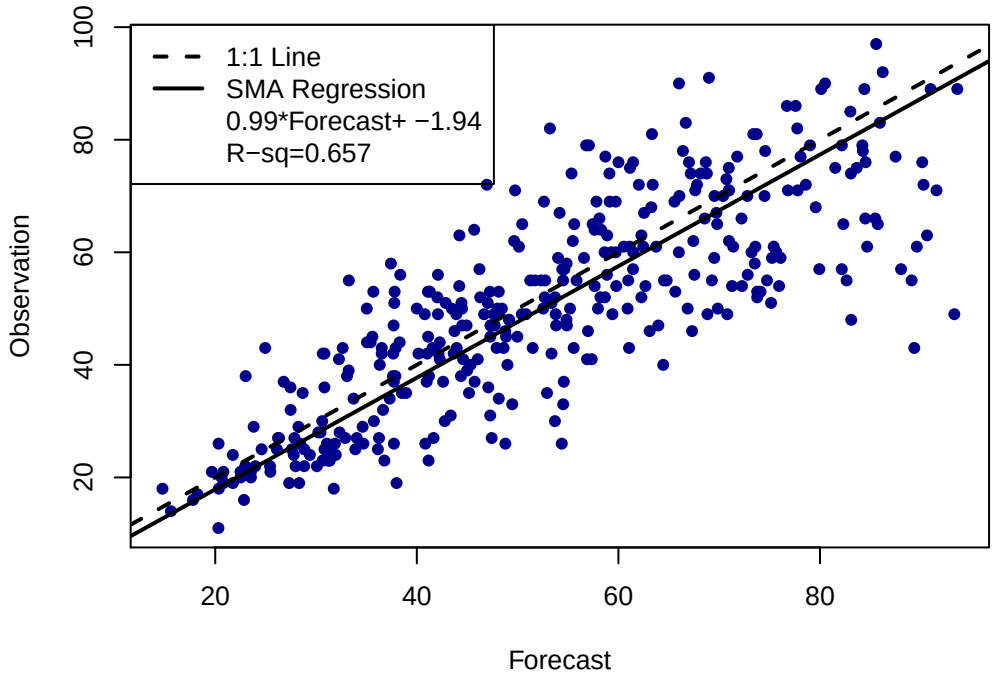
CMA Obs Station # 53487 40.1 degN 113.33 degE
vs Forecast at 40.223 degN 113.451 degE
2006, All Times Local (UTC+8)

Surface RH(%): CMA Obs Station # 53487 40.1 degN 113.33 degE vs 2m Forecast at 40.223 degN 113.451 degE
2006, All Times Local (UTC+8)

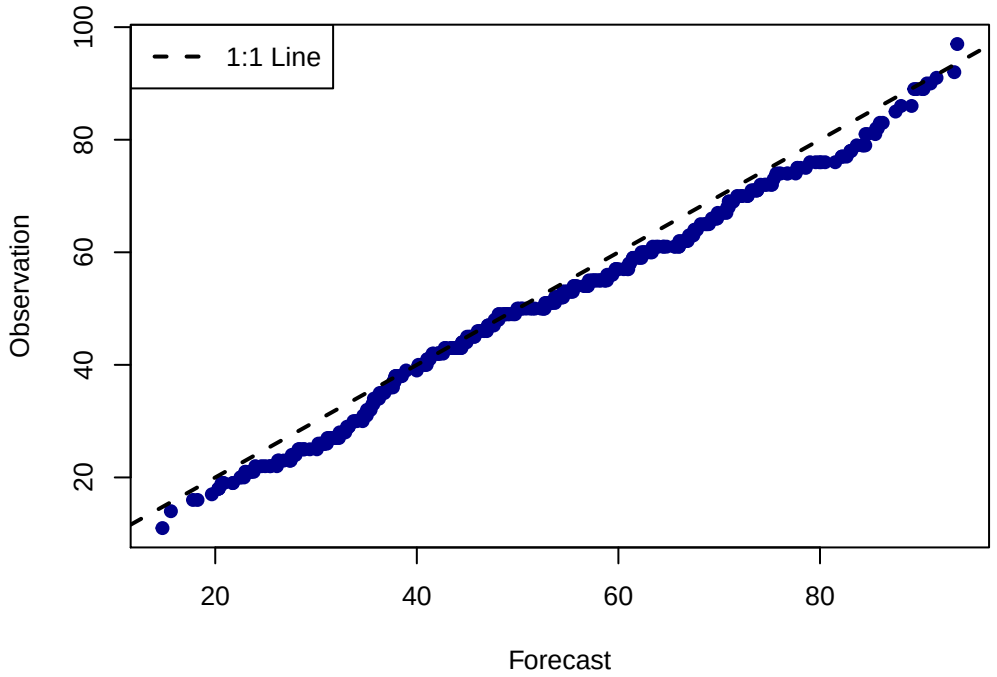


Shaded yellow region indicates daily range of CMA data. (No daily max available for RH%)

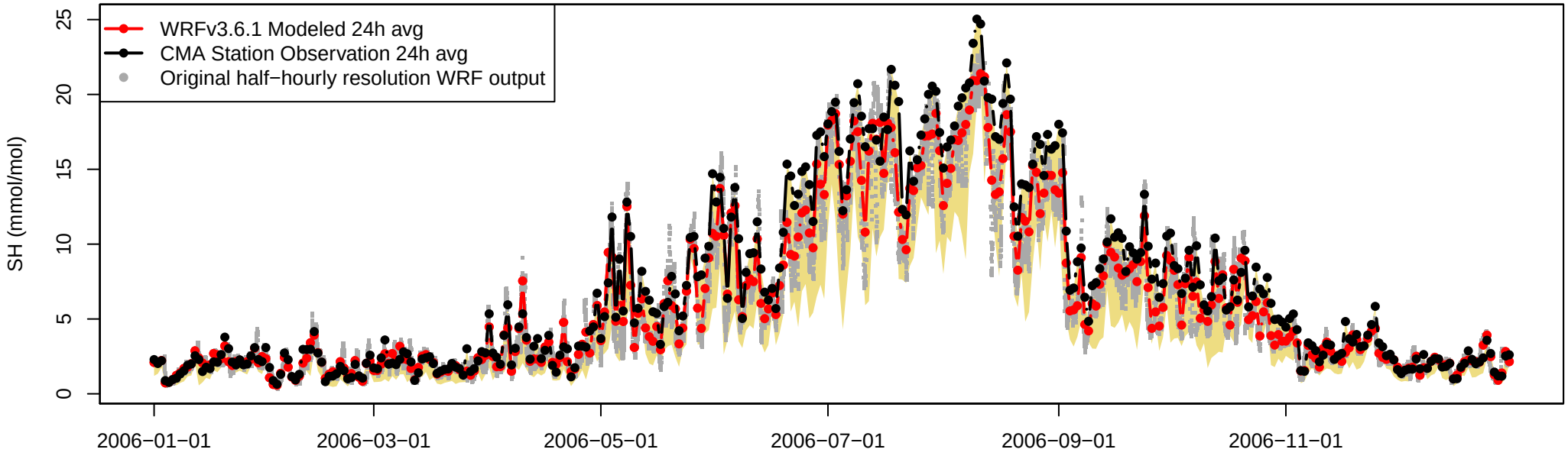
Relative Humidity (%) Scatterplot



Relative Humidity (%) QQ-Plot

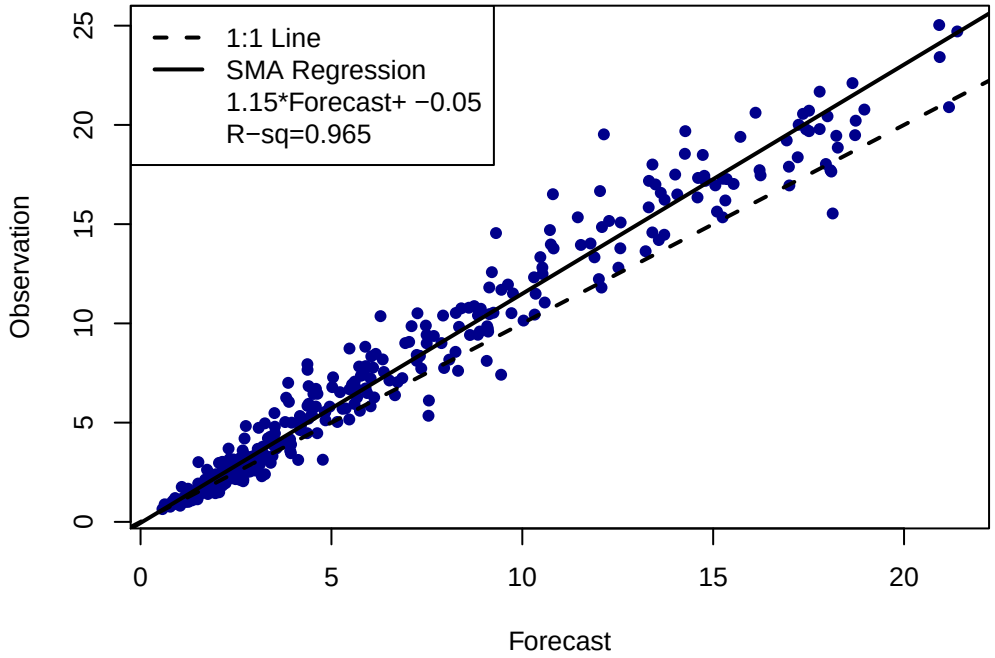


SH(mmol/mol) at 2m: CMA Obs Station # 53487 40.1 degN 113.33 degE vs Forecast at 40.223 degN 113.451 degE
2006 All Times Local (UTC+8)

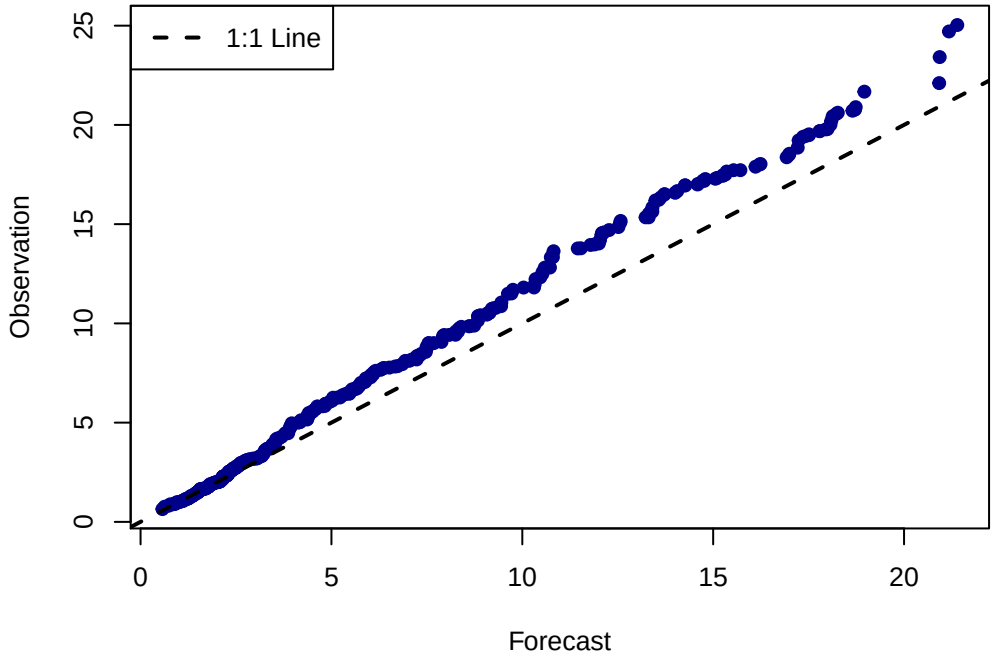


Shaded yellow region indicates daily range of CMA data. (No daily max available for SH)

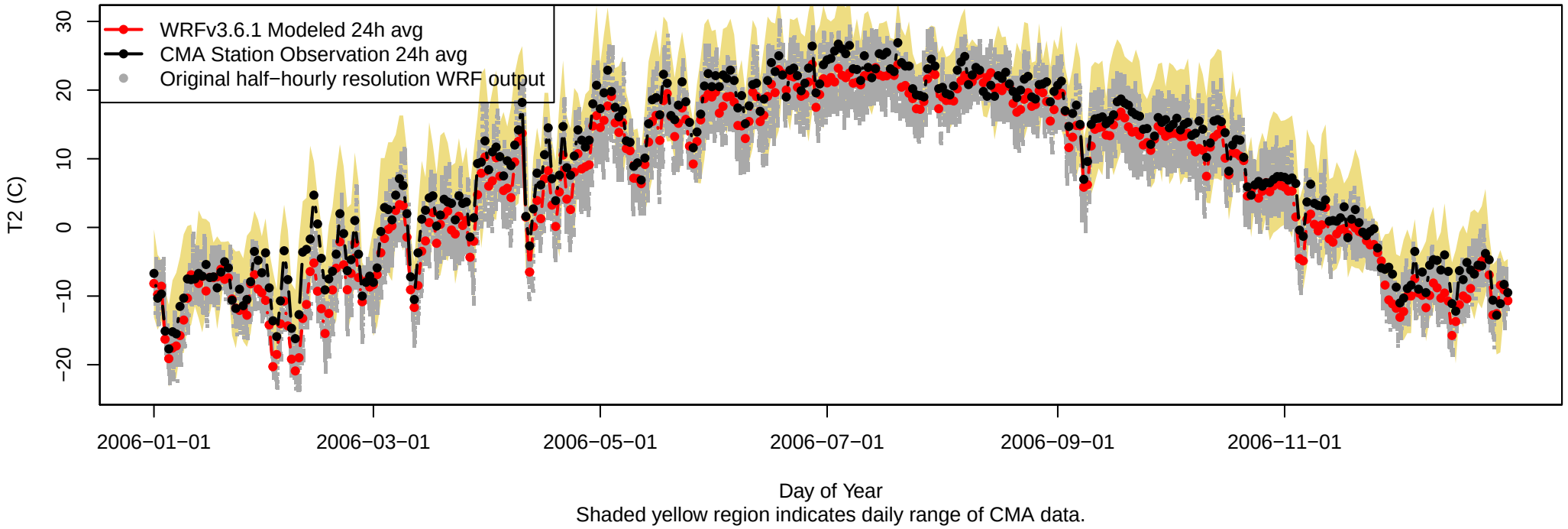
Specific Humidity (mmol/mol) Scatterplot



Specific Humidity (mmol/mol) QQ−Plot

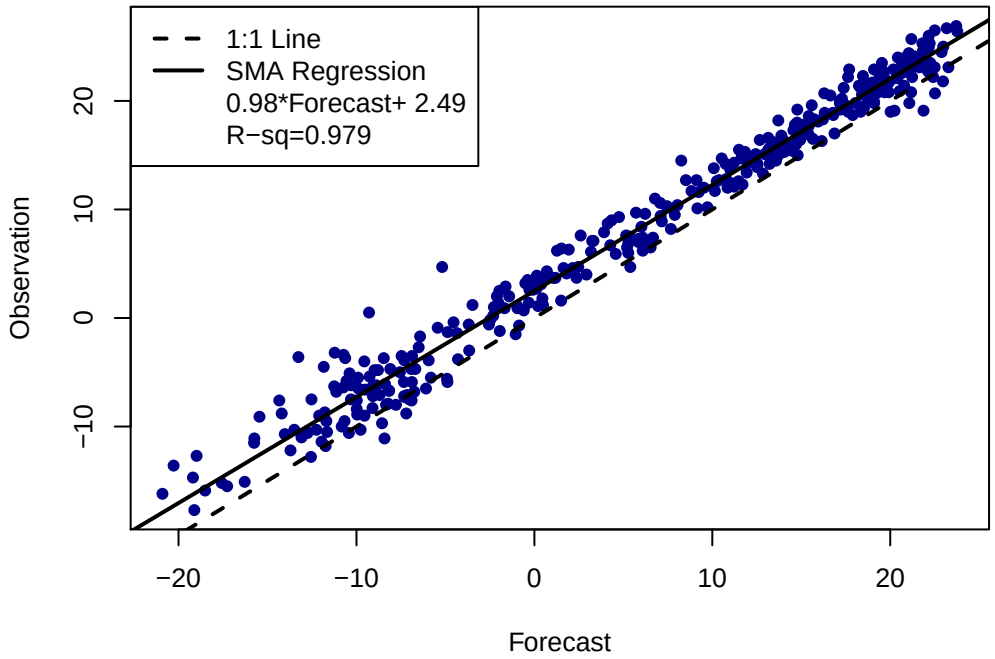


Temp(C) at 2m: CMA Obs Station # 53487 40.1 degN 113.33 degE vs Forecast at 40.223 degN 113.451 degE
2006, All Times Local (UTC+8)

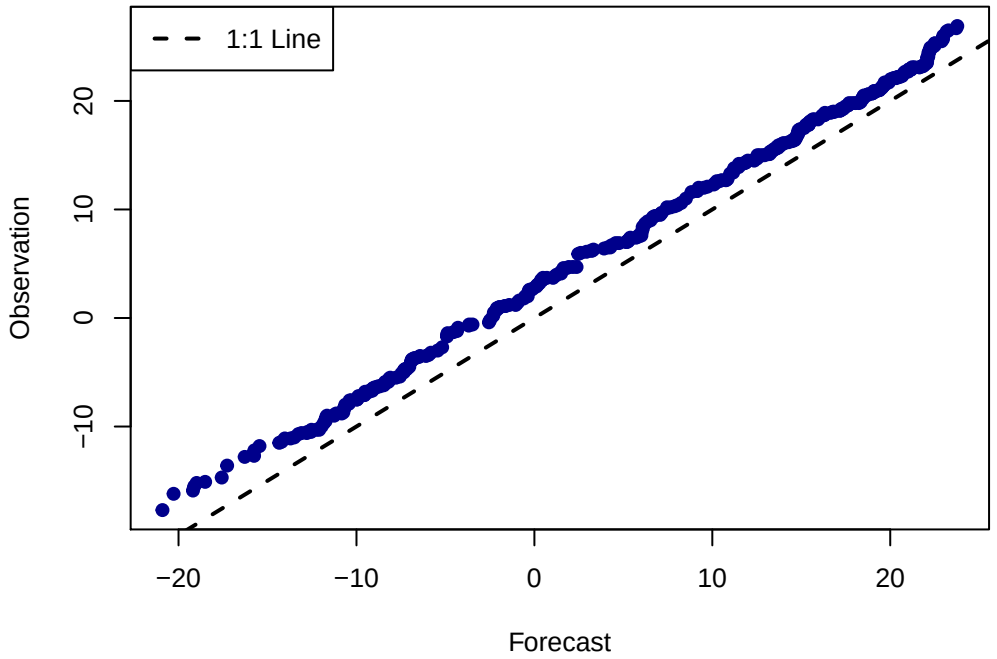


Shaded yellow region indicates daily range of CMA data.

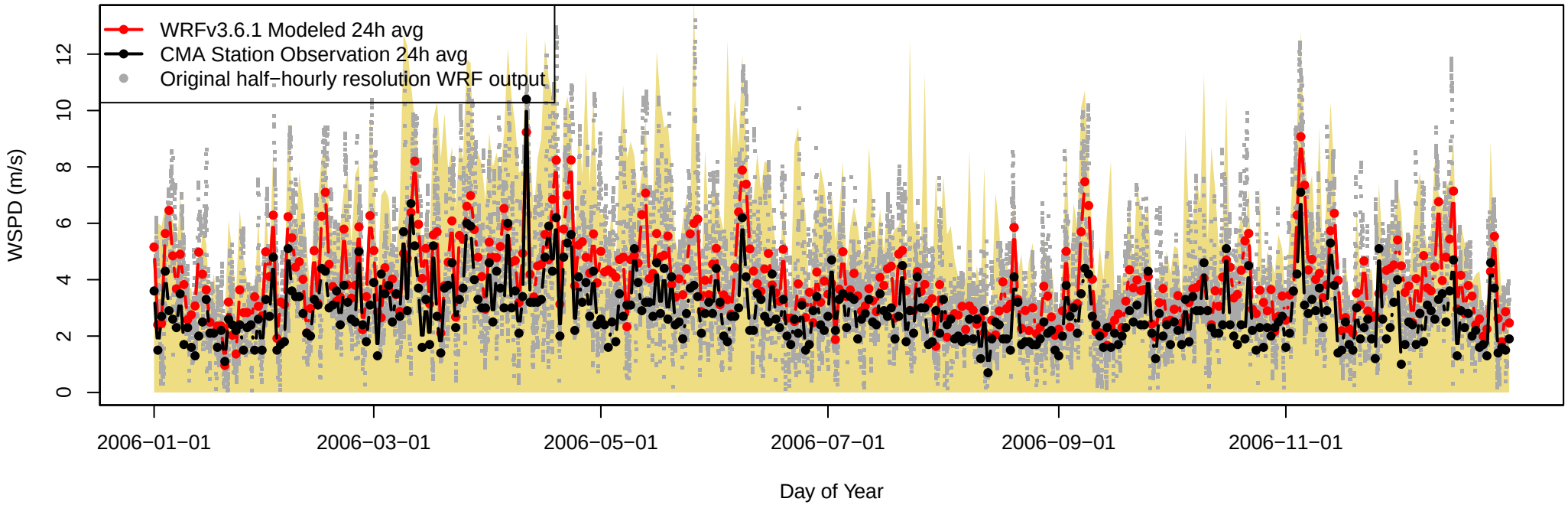
Temperature (C) Scatterplot



Temperature (C) QQ−Plot

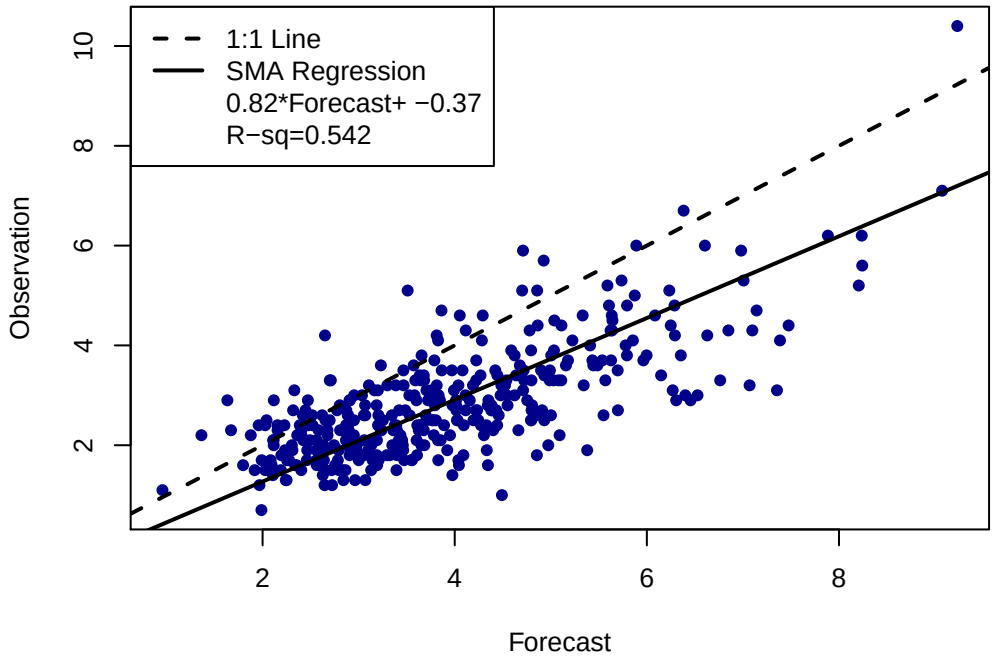


Wind Speed (m/s) at 10m: CMA Obs Station # 53487 40.1 degN 113.33 degE vs Forecast at 40.223 degN 113.451 degE
2006, All Times Local (UTC+8)

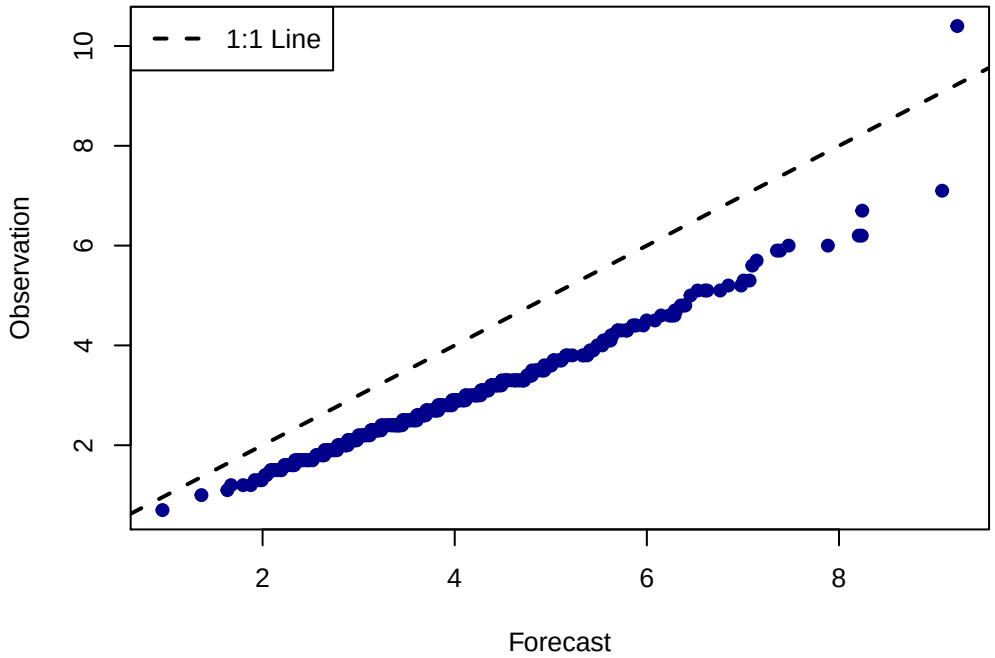


Shaded yellow region indicates daily range of CMA data. Min daily WSPD unavailable but assumed (and set at) 0.

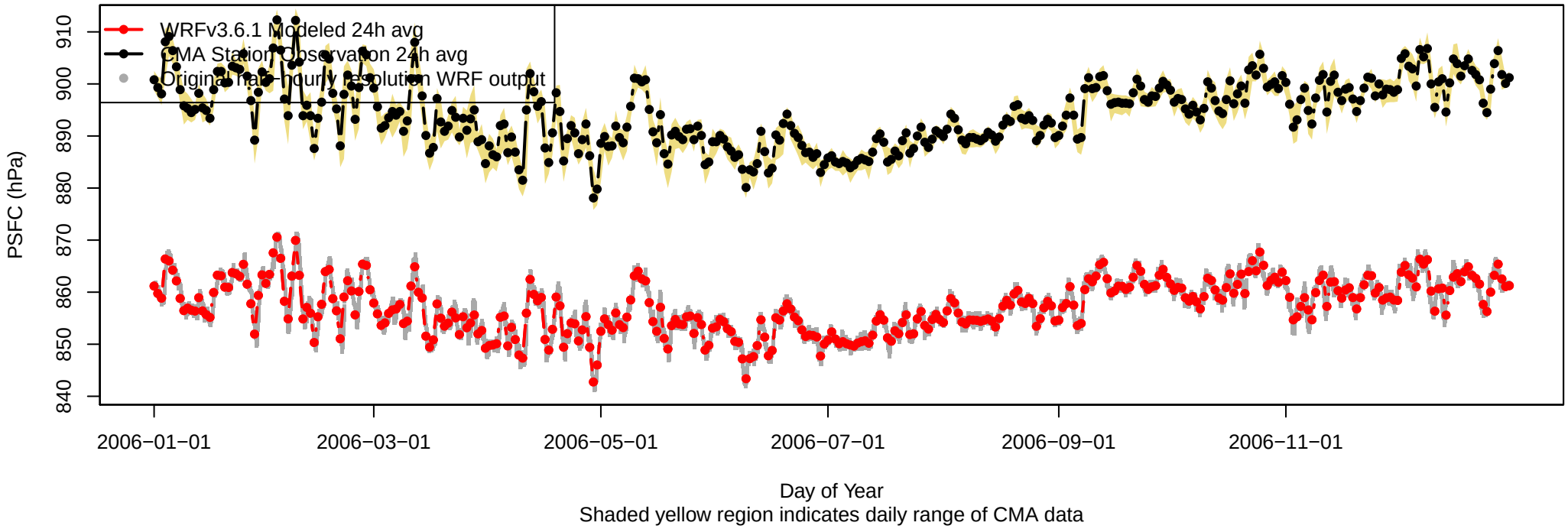
Wind Speed (m/s) Scatterplot

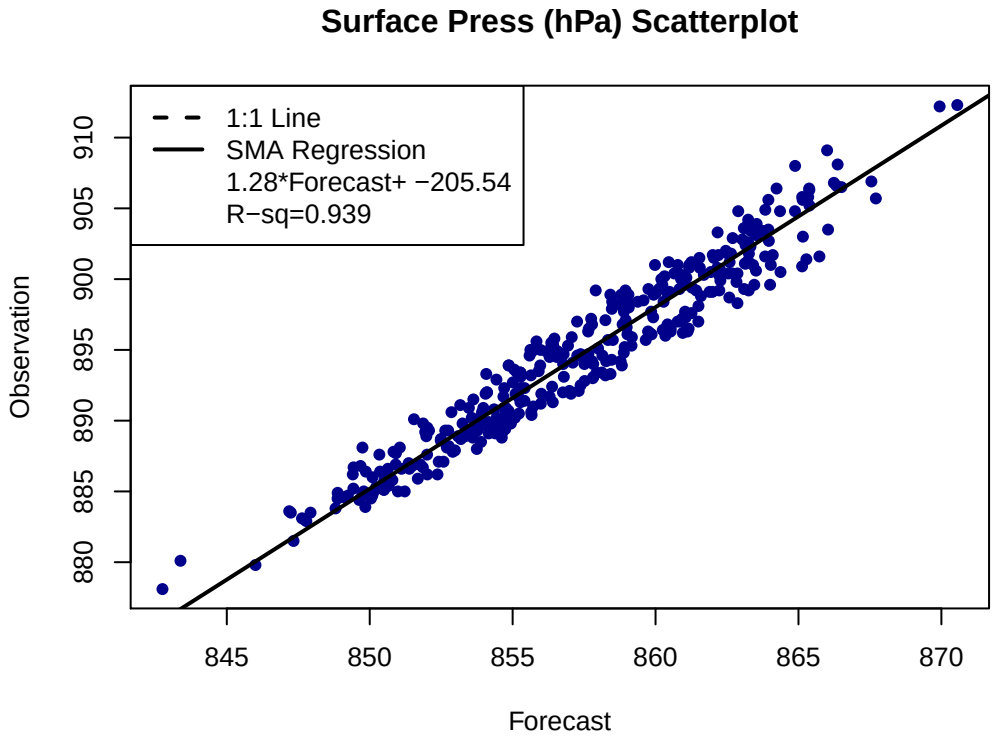


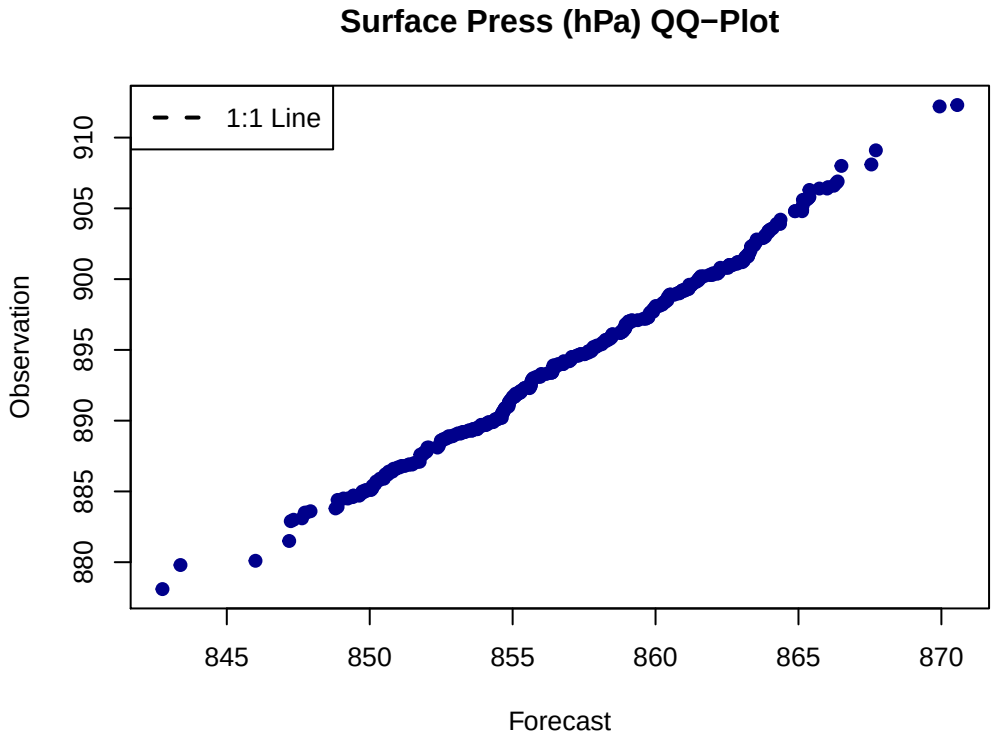
Wind Speed (m/s) QQ−Plot



Surface Press (hPa): CMA Obs Station # 53487 40.1 degN 113.33 degE vs Forecast at 40.223 degN 113.451 degE
2006, All Times Local (UTC+8)

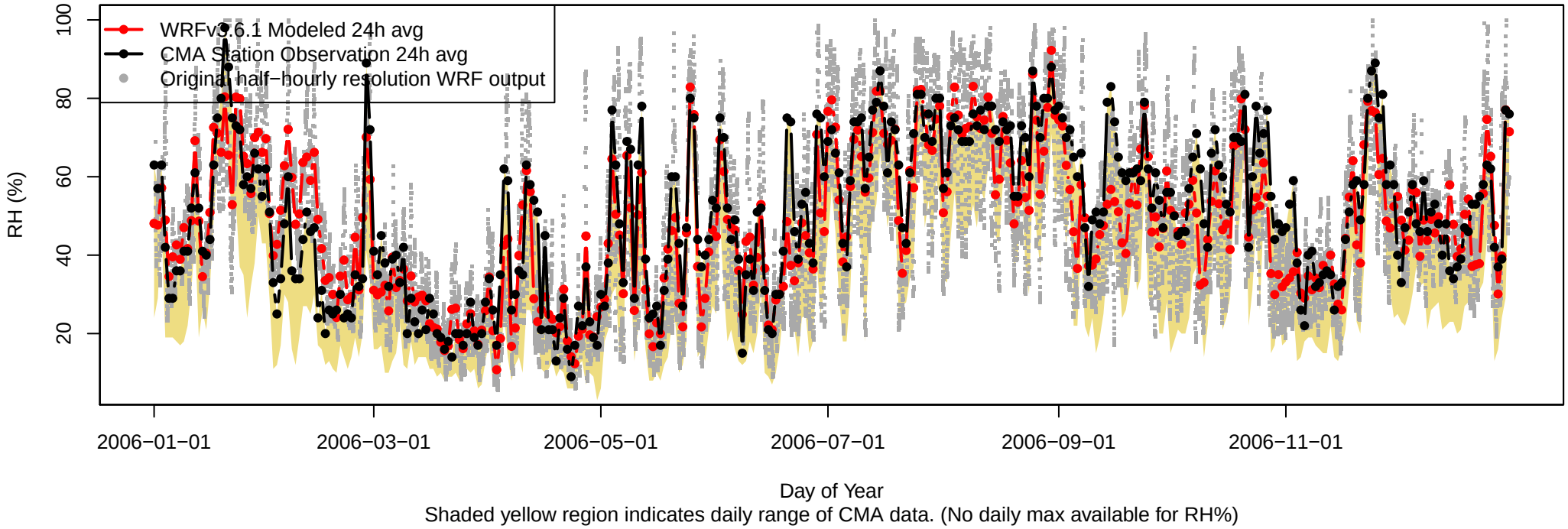






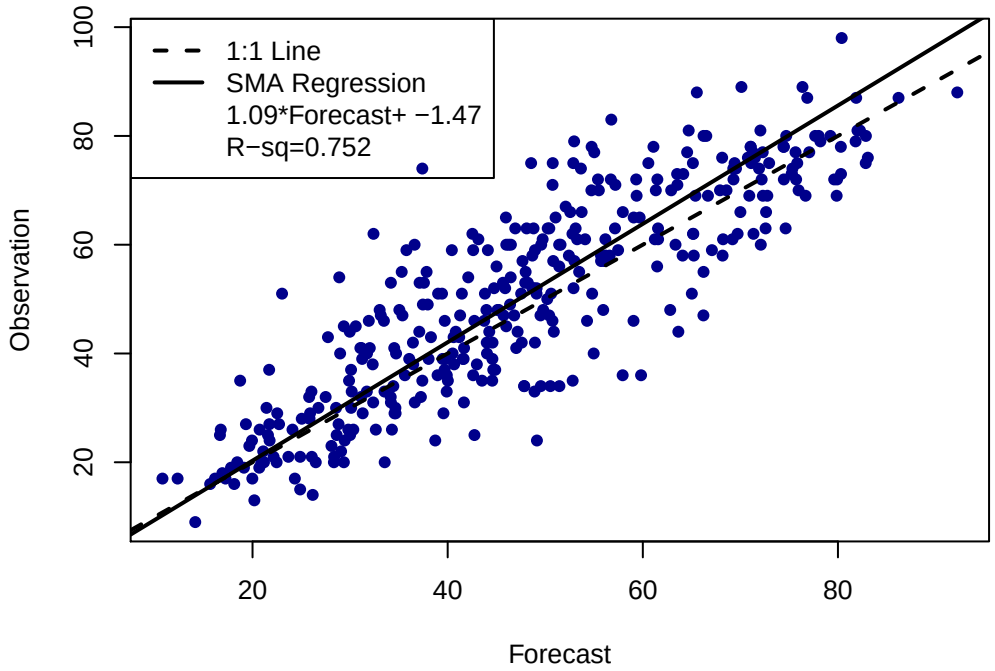
CMA Obs Station # 53673 38.73 degN 112.72 degE
vs Forecast at 38.82 degN 112.873 degE
2006, All Times Local (UTC+8)

Surface RH(%): CMA Obs Station # 53673 38.73 degN 112.72 degE vs 2m Forecast at 38.82 degN 112.873 degE
2006, All Times Local (UTC+8)

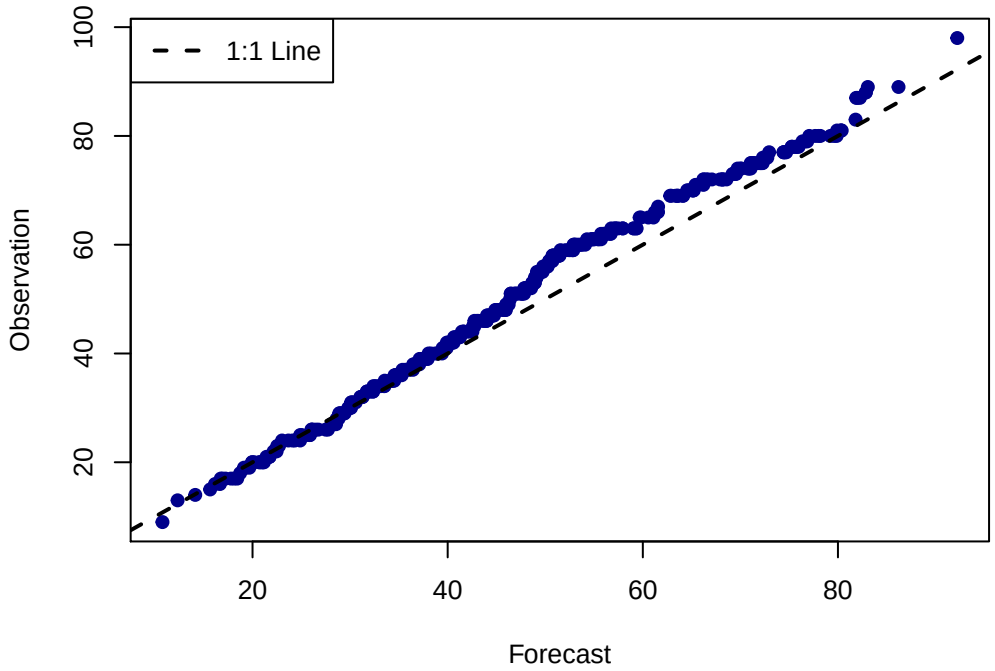


Shaded yellow region indicates daily range of CMA data. (No daily max available for RH%)

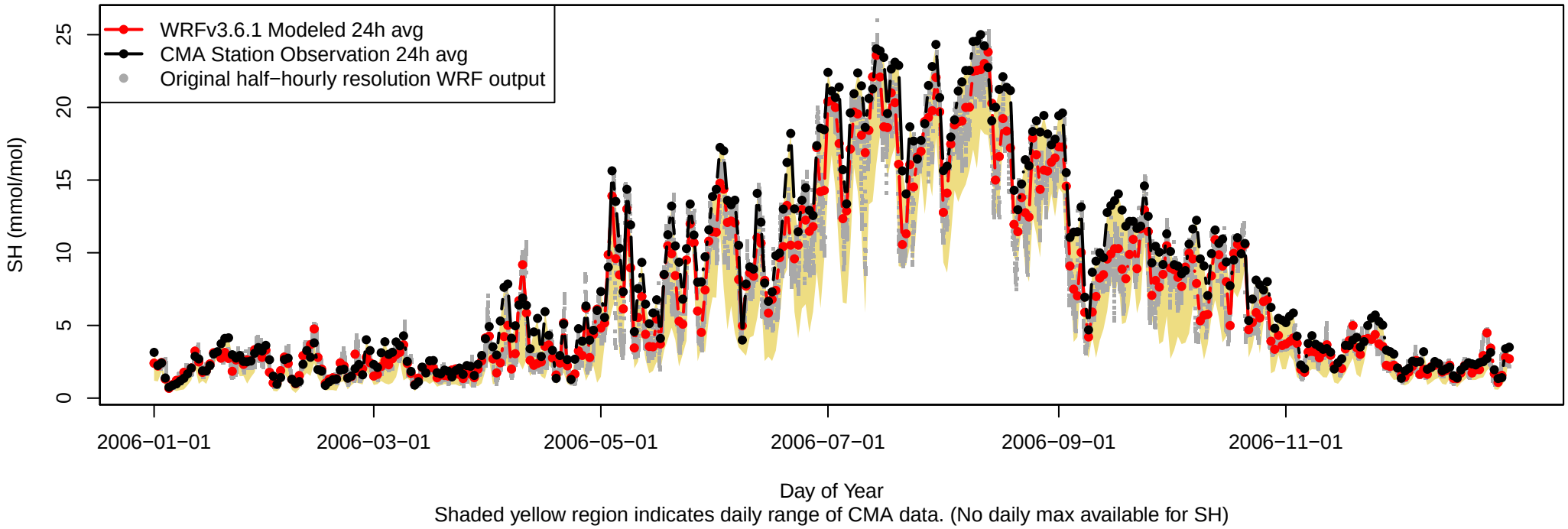
Relative Humidity (%) Scatterplot



Relative Humidity (%) QQ−Plot

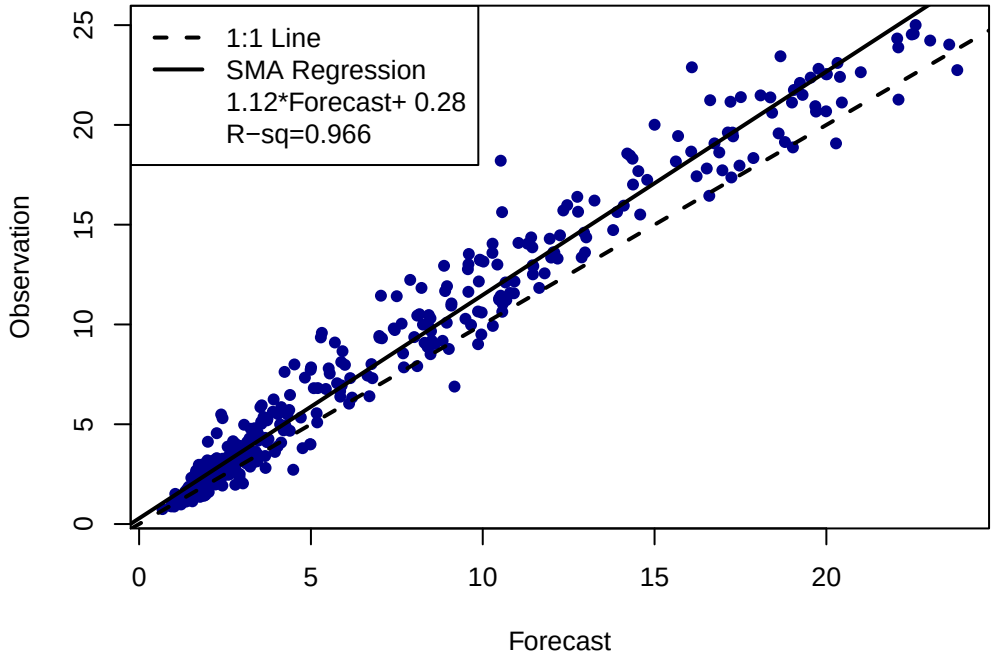


SH(mmol/mol) at 2m: CMA Obs Station # 53673 38.73 degN 112.72 degE vs Forecast at 38.82 degN 112.873 degE
2006 All Times Local (UTC+8)

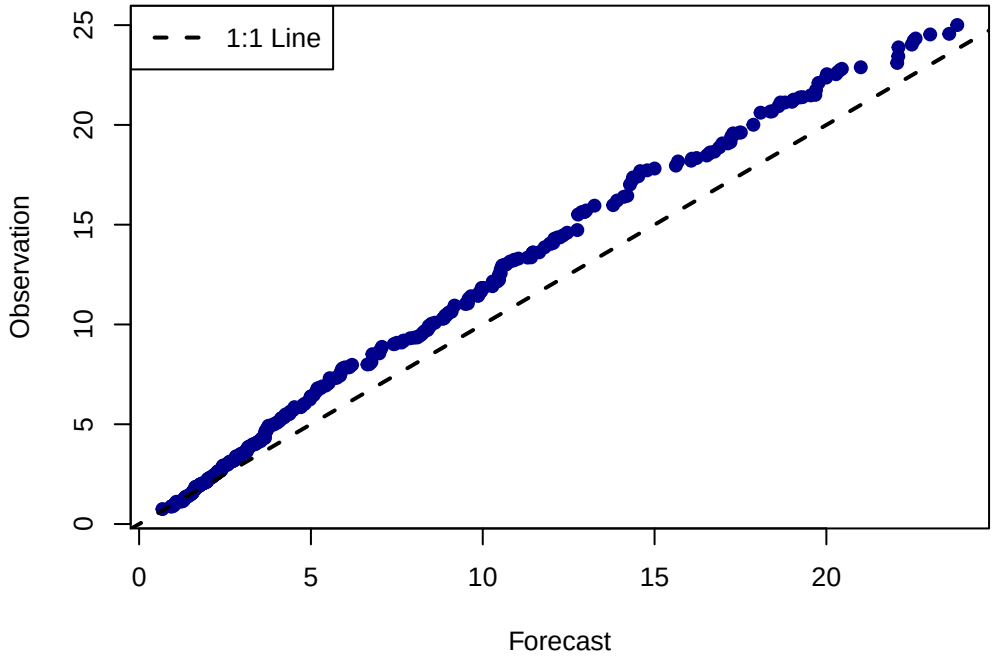


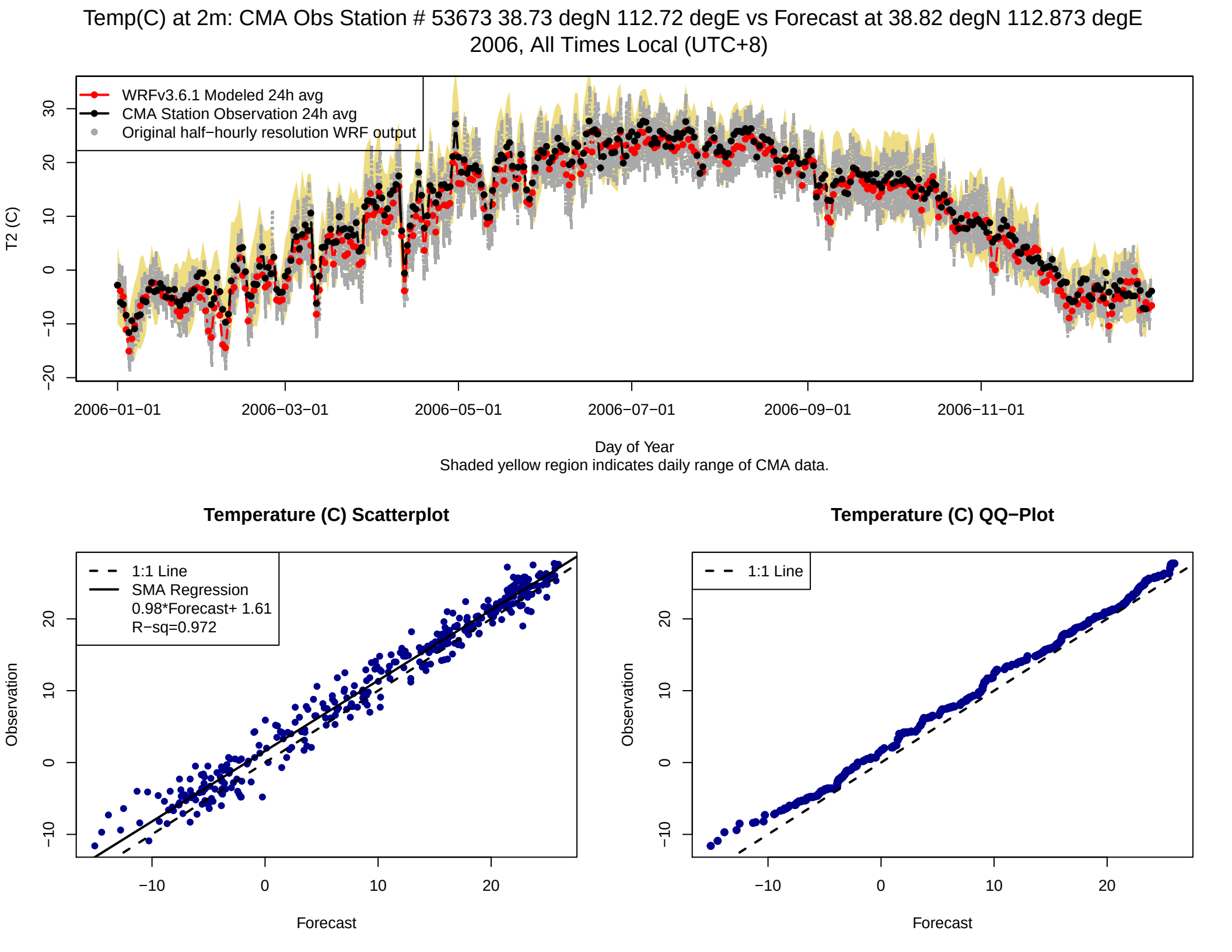
Shaded yellow region indicates daily range of CMA data. (No daily max available for SH)

Specific Humidity (mmol/mol) Scatterplot

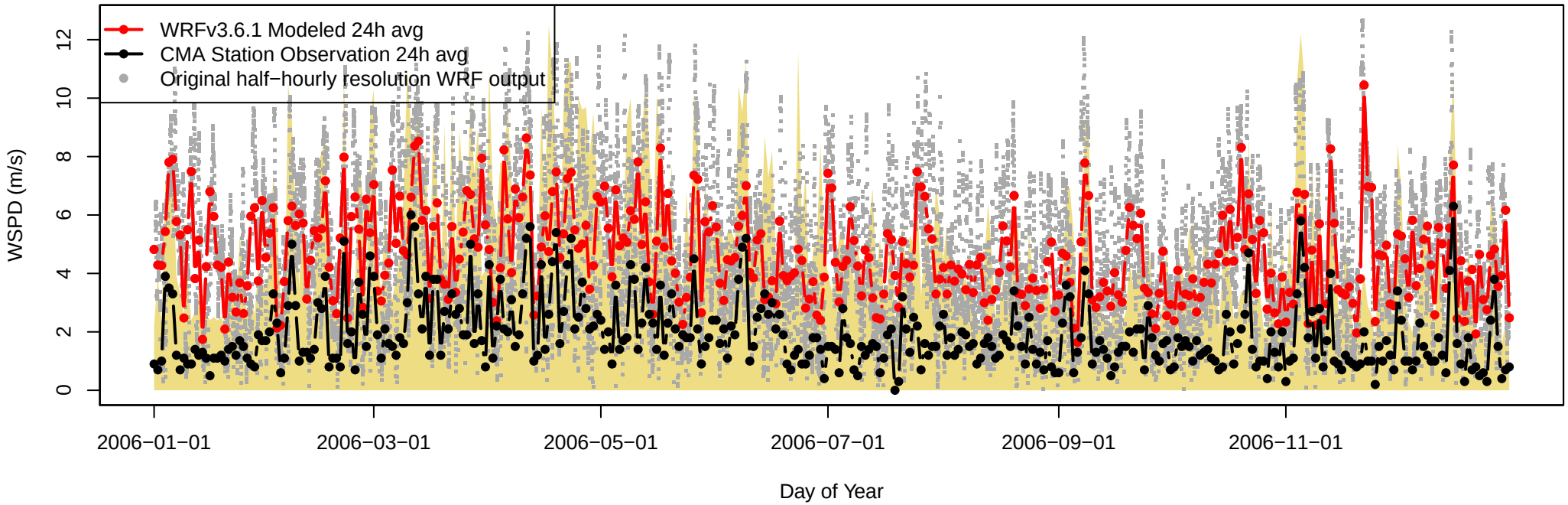


Specific Humidity (mmol/mol) QQ−Plot



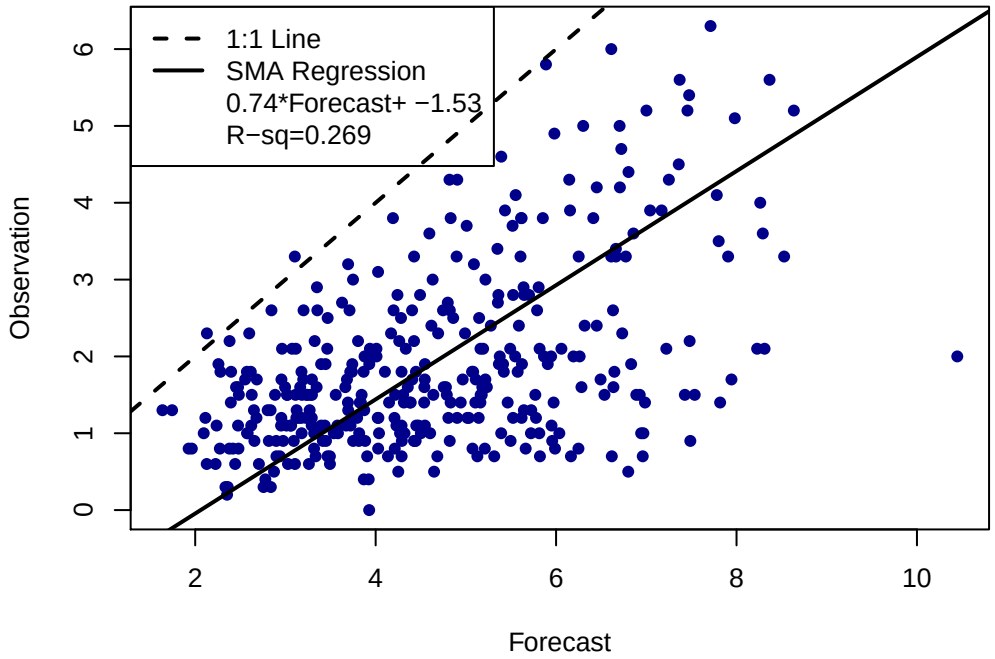

Temp(C) at 2m: CMA Obs Station # 53673 38.73 degN 112.72 degE vs Forecast at 38.82 degN 112.873 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
T2 (C)
30
20
10
0
−10
−20
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data.
Temperature (C) Scatterplot
1:1 Line
SMA Regression
0.98*Forecast+ 1.61
R−sq=0.972
Observation
Forecast
−10
0
10
20
Temperature (C) QQ−Plot
1:1 Line
Observation
Forecast

Wind Speed (m/s) at 10m: CMA Obs Station # 53673 38.73 degN 112.72 degE vs Forecast at 38.82 degN 112.873 degE
2006, All Times Local (UTC+8)

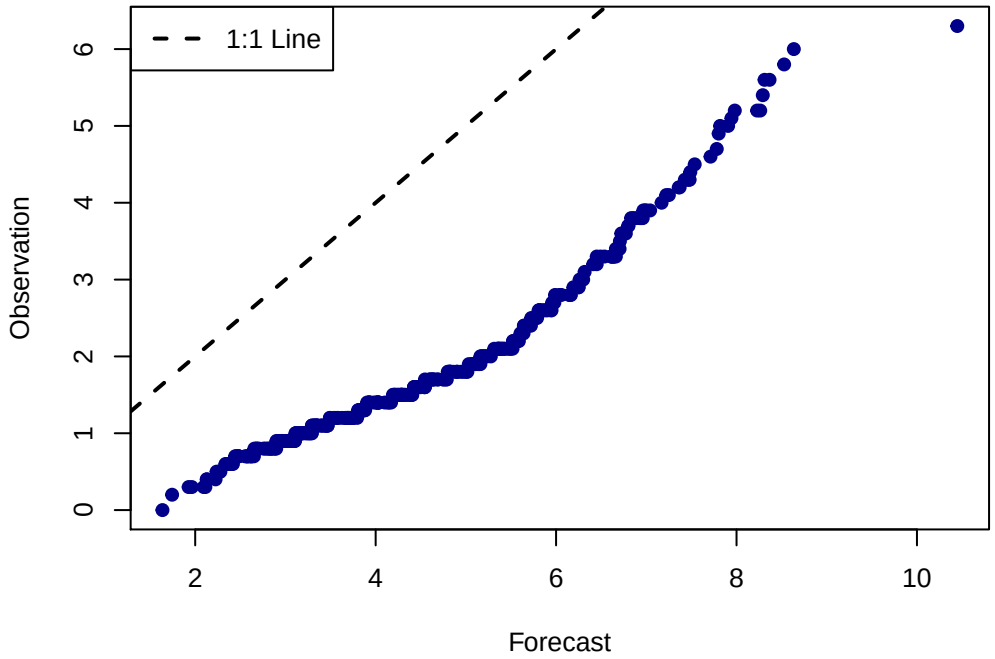


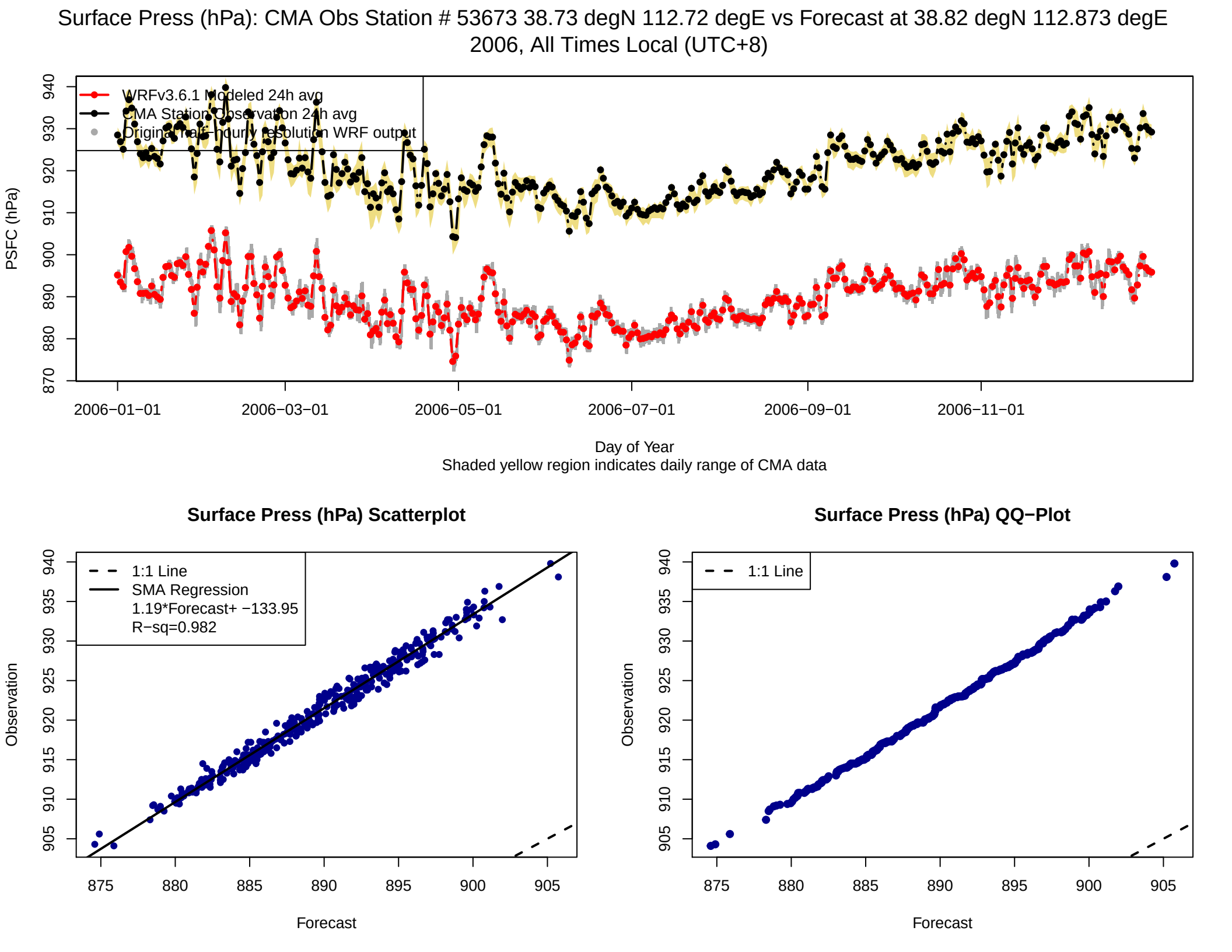
Shaded yellow region indicates daily range of CMA data. Min daily WSPD unavailable but assumed (and set at) 0.

Wind Speed (m/s) Scatterplot

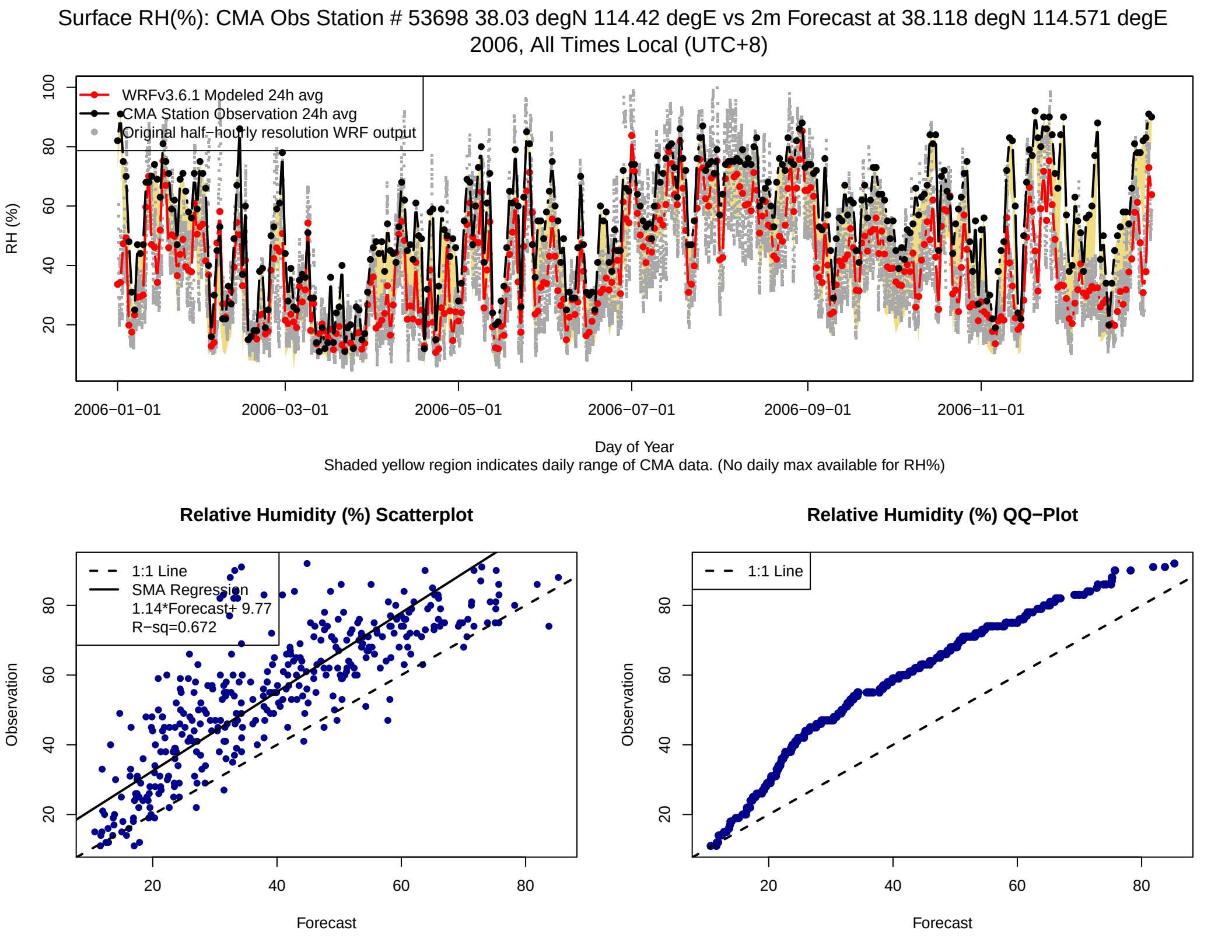


Wind Speed (m/s) QQ−Plot

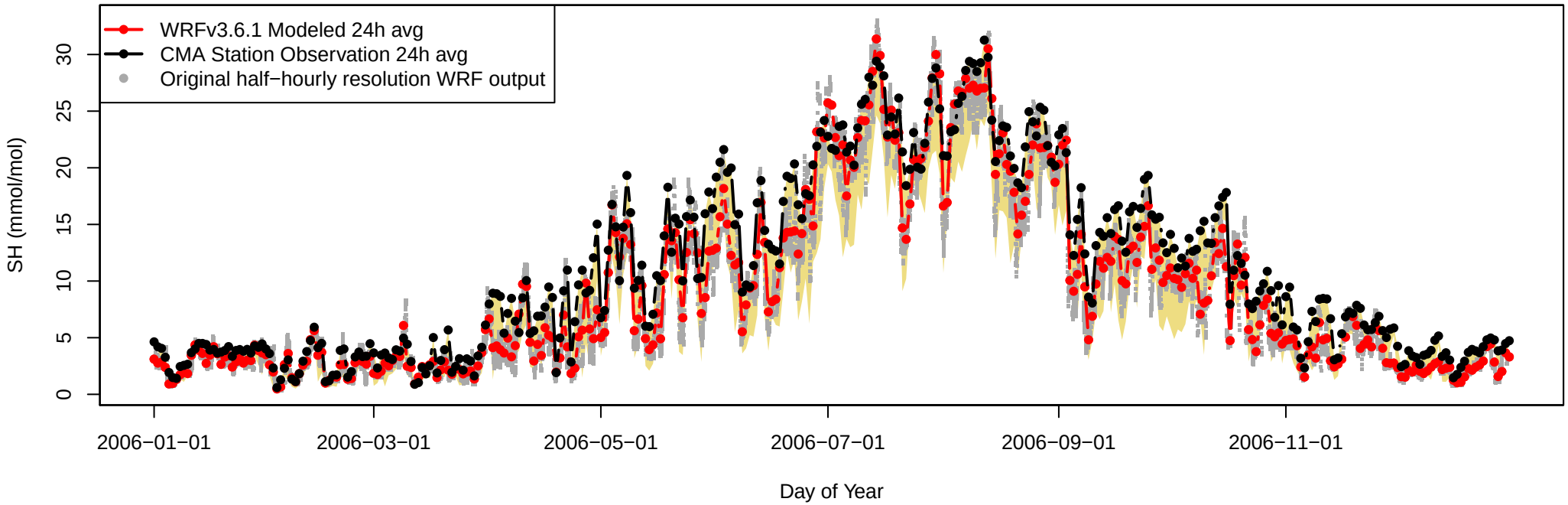



Surface Press (hPa): CMA Obs Station # 53673 38.73 degN 112.72 degE vs Forecast at 38.82 degN 112.873 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original raw hourly resolution WRF output
PSFC (hPa)
870
880
890
900
910
920
930
940
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data
Surface Press (hPa) Scatterplot
1:1 Line
SMA Regression
1.19*Forecast+ −133.95
R−sq=0.982
Observation
Forecast
905
910
915
920
925
930
935
940
875
880
885
890
895
900
905
Surface Press (hPa) QQ−Plot
1:1 Line
Observation
Forecast

CMA Obs Station # 53698 38.03 degN 114.42 degE
vs Forecast at 38.118 degN 114.571 degE
2006, All Times Local (UTC+8)

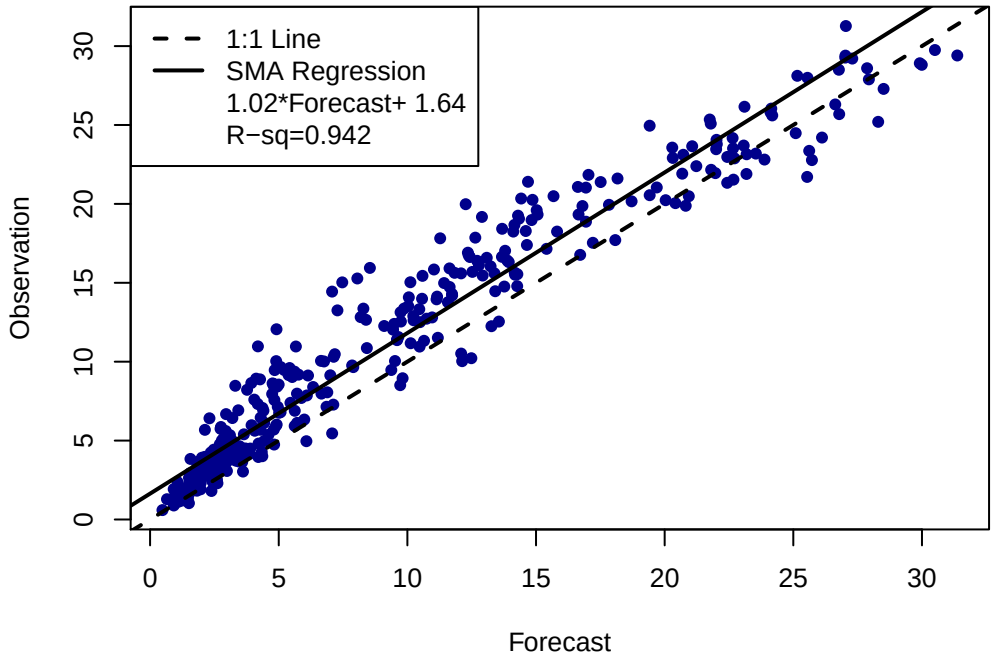

Surface RH(%): CMA Obs Station # 53698 38.03 degN 114.42 degE vs 2m Forecast at 38.118 degN 114.571 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
RH (%)
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data. (No daily max available for RH%)
Relative Humidity (%) Scatterplot
1:1 Line
SMA Regression
1.14*Forecast+ 9.77
R−sq=0.672
Observation
Forecast
Relative Humidity (%) QQ−Plot
1:1 Line
Observation
Forecast

SH(mmol/mol) at 2m: CMA Obs Station # 53698 38.03 degN 114.42 degE vs Forecast at 38.118 degN 114.571 degE
2006 All Times Local (UTC+8)

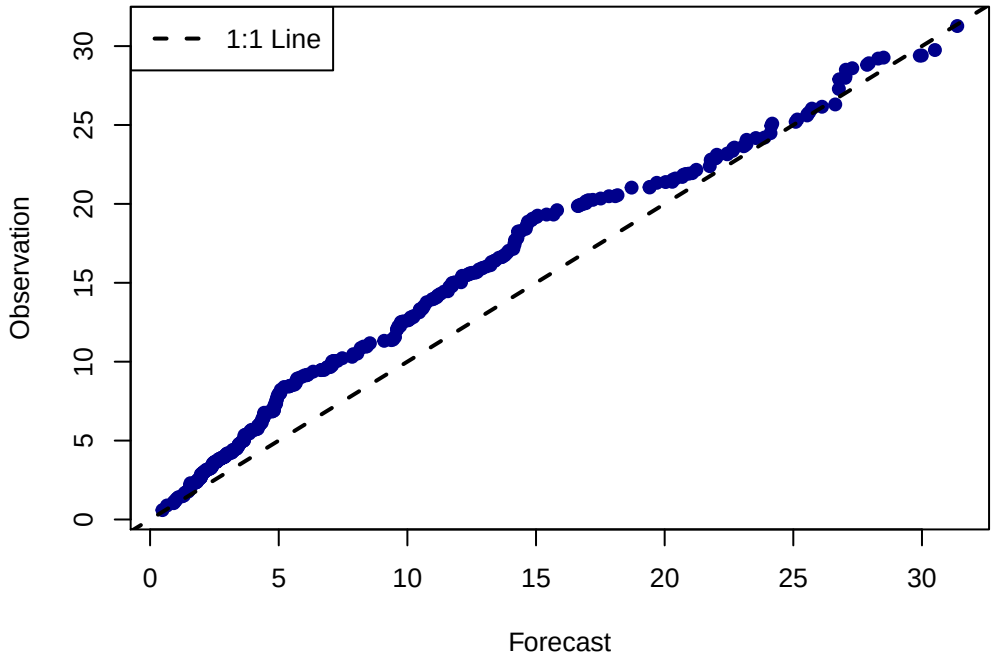


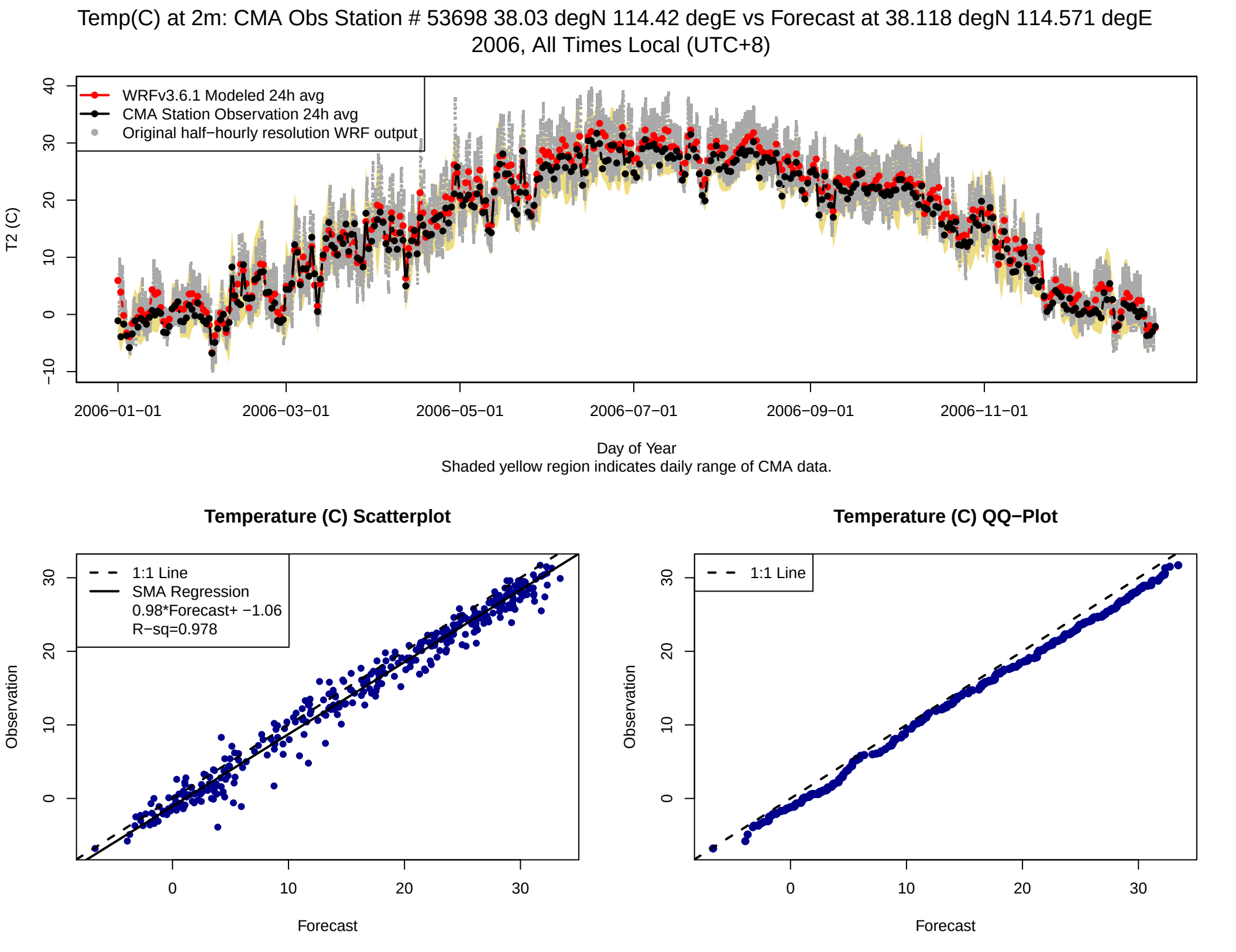
Shaded yellow region indicates daily range of CMA data. (No daily max available for SH)

Specific Humidity (mmol/mol) Scatterplot

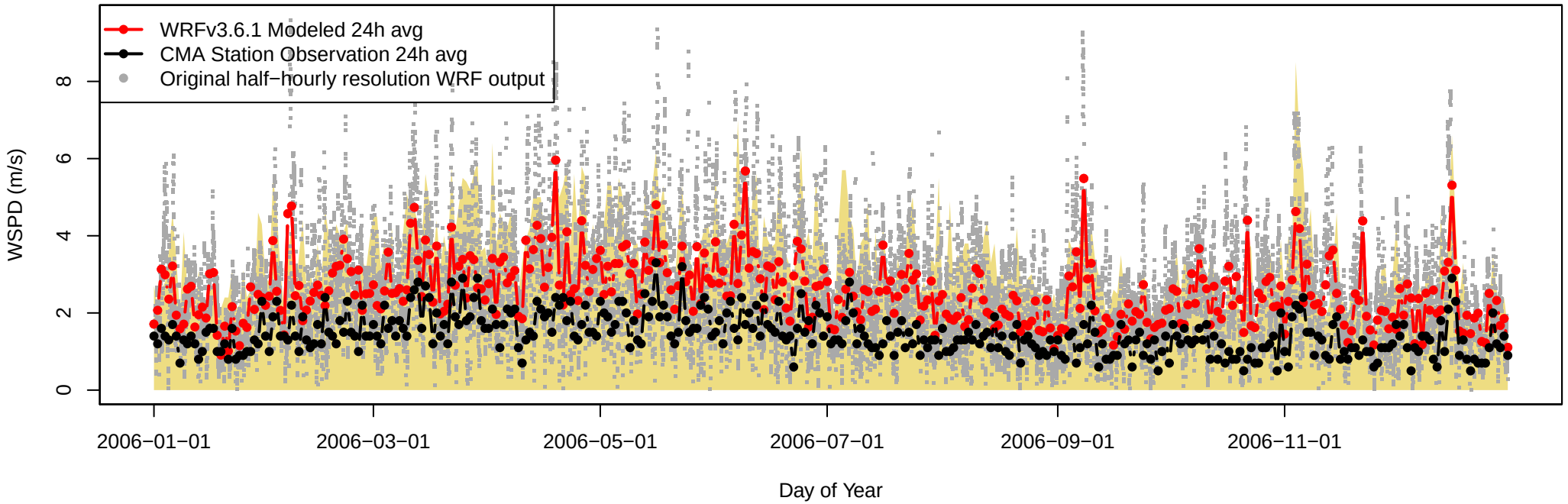


Specific Humidity (mmol/mol) QQ−Plot



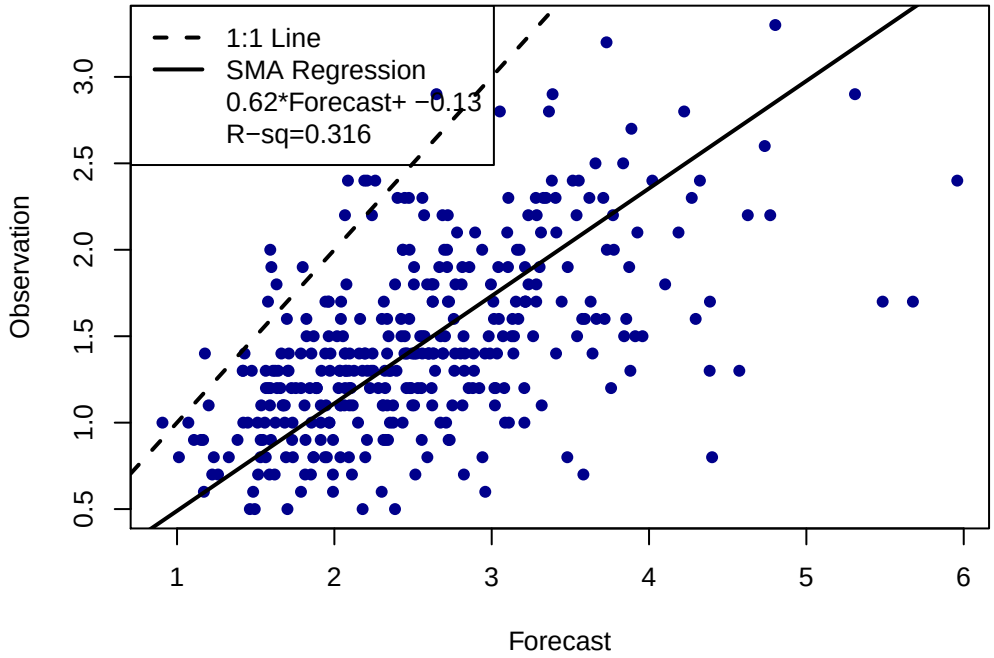

Temp(C) at 2m: CMA Obs Station # 53698 38.03 degN 114.42 degE vs Forecast at 38.118 degN 114.571 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
T2 (C)
40
30
20
10
0
−10
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data.
Temperature (C) Scatterplot
1:1 Line
SMA Regression
0.98*Forecast+ −1.06
R−sq=0.978
Observation
Forecast
0
10
20
30
Temperature (C) QQ−Plot
1:1 Line
Observation
Forecast

Wind Speed (m/s) at 10m: CMA Obs Station # 53698 38.03 degN 114.42 degE vs Forecast at 38.118 degN 114.571 degE
2006, All Times Local (UTC+8)

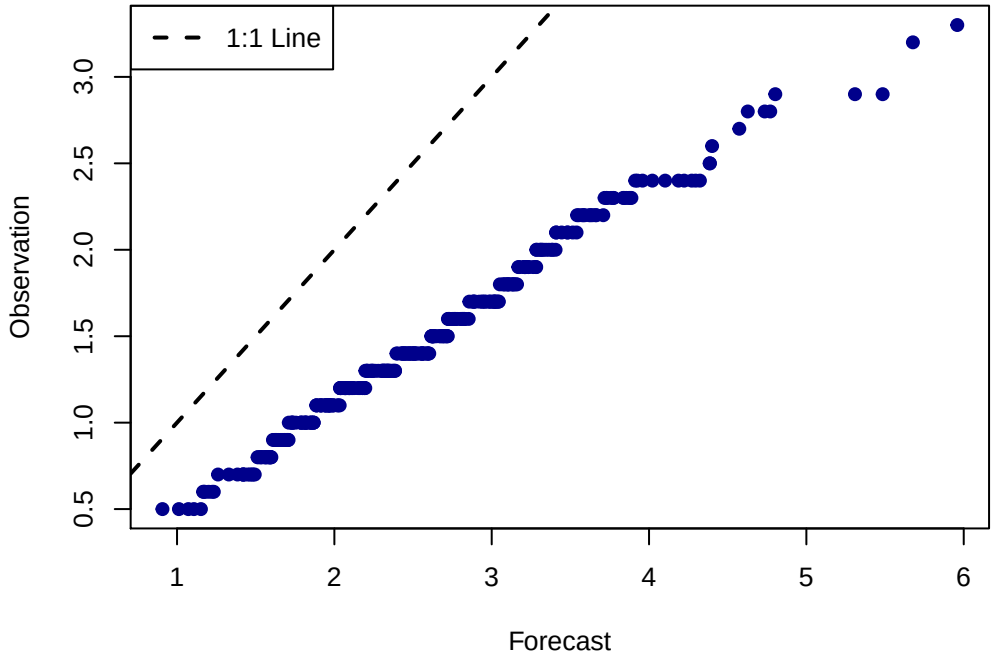


Shaded yellow region indicates daily range of CMA data. Min daily WSPD unavailable but assumed (and set at) 0.

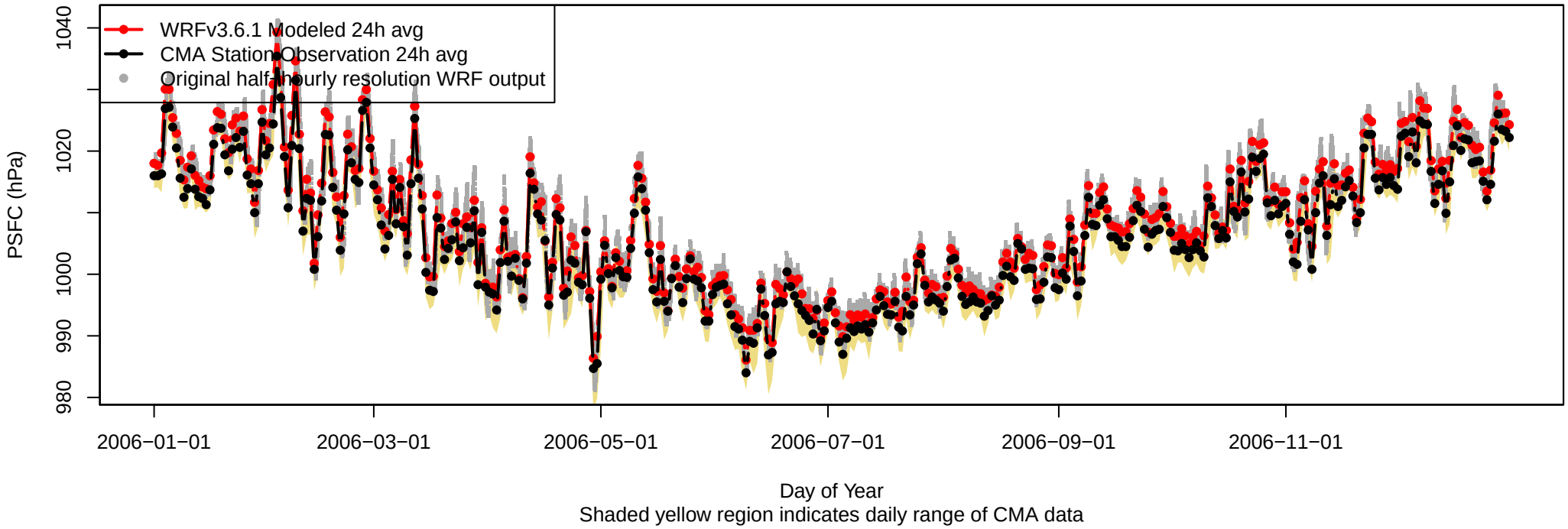
Wind Speed (m/s) Scatterplot

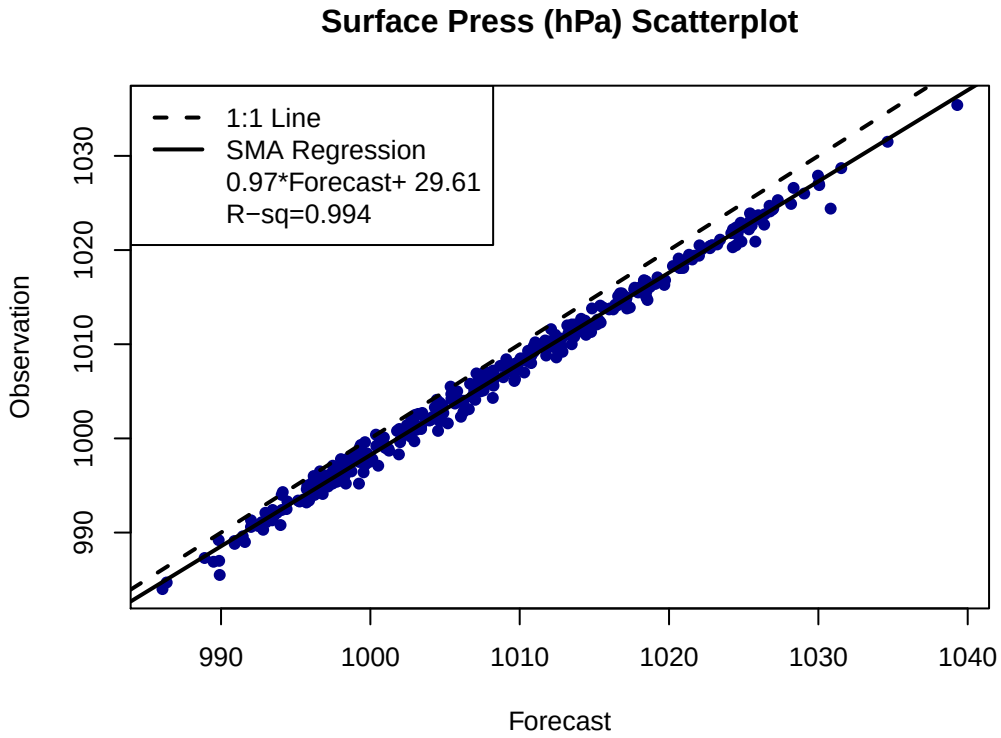


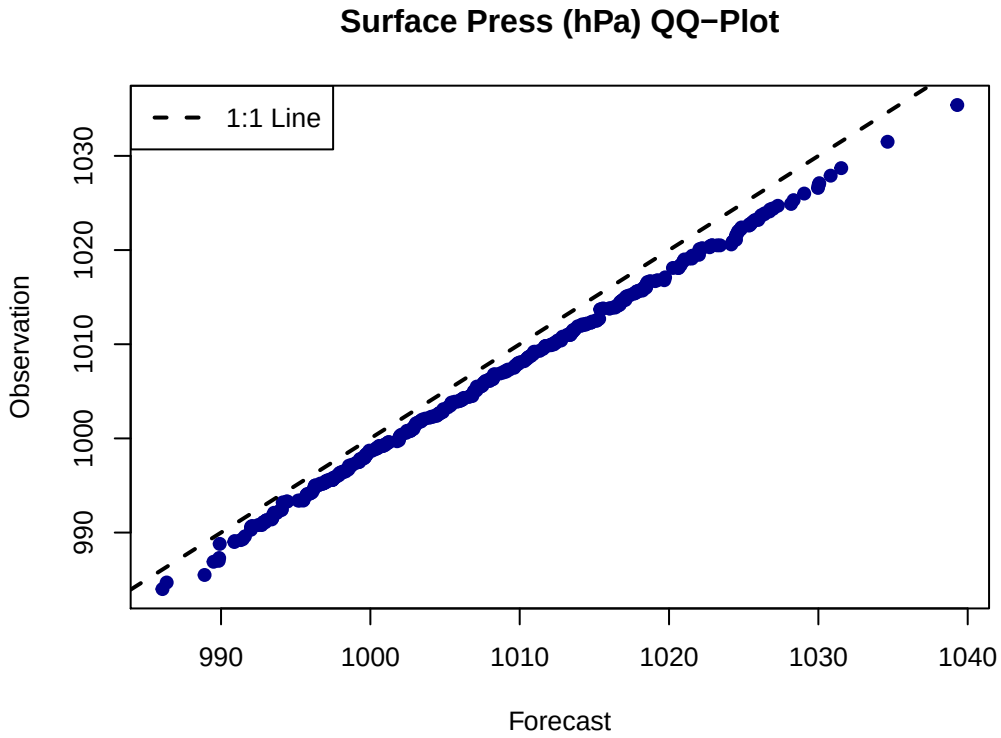
Wind Speed (m/s) QQ−Plot



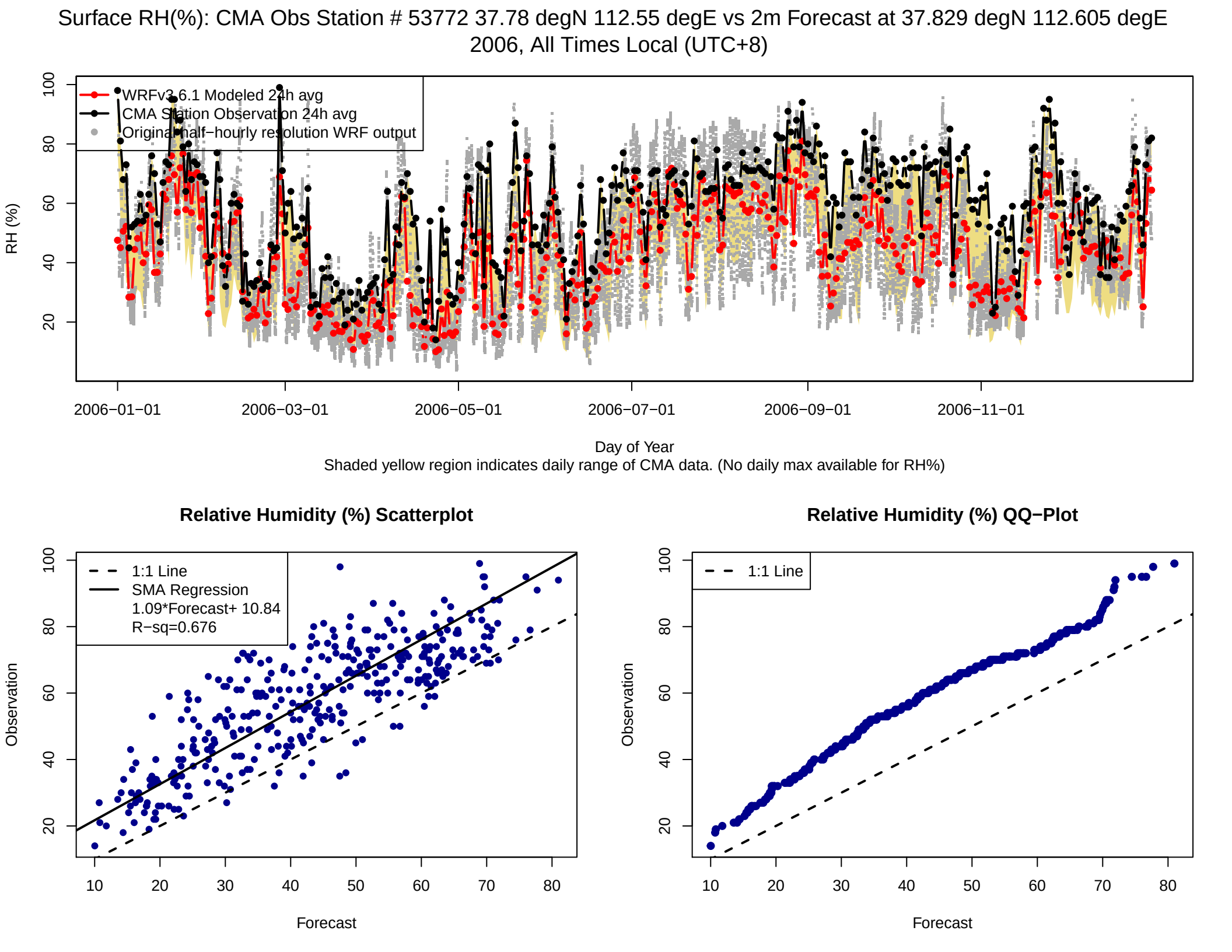
Surface Press (hPa): CMA Obs Station # 53698 38.03 degN 114.42 degE vs Forecast at 38.118 degN 114.571 degE
2006, All Times Local (UTC+8)



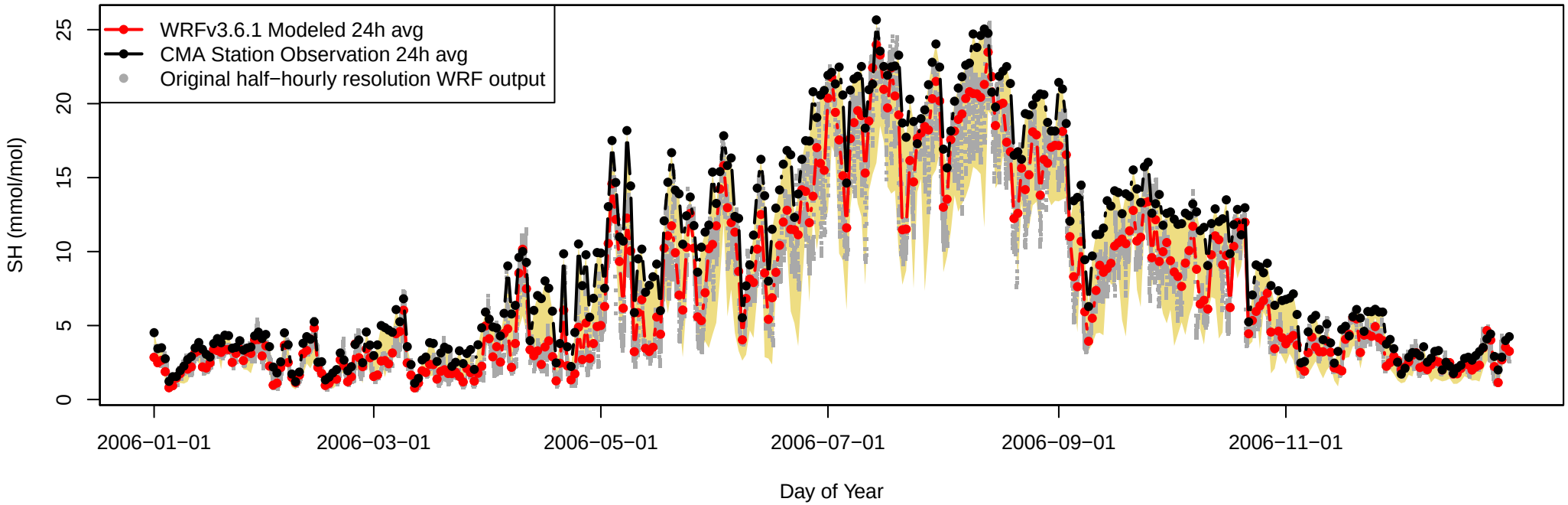




CMA Obs Station # 53772 37.78 degN 112.55 degE
vs Forecast at 37.829 degN 112.605 degE
2006, All Times Local (UTC+8)

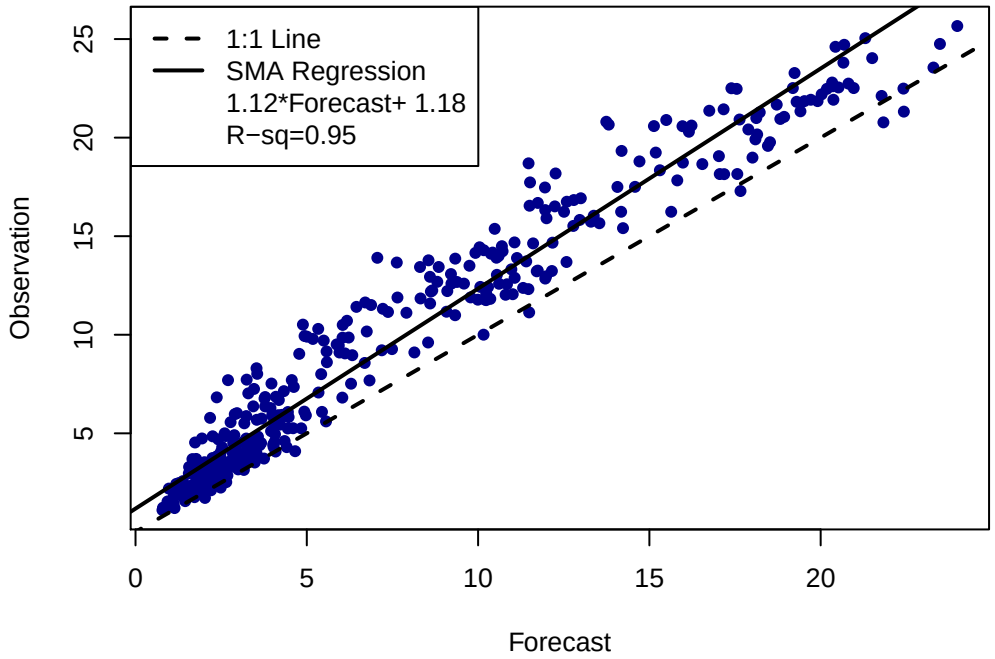

Surface RH(%): CMA Obs Station # 53772 37.78 degN 112.55 degE vs 2m Forecast at 37.829 degN 112.605 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
RH (%)
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data. (No daily max available for RH%)
Relative Humidity (%) Scatterplot
1:1 Line
SMA Regression
1.09*Forecast+ 10.84
R−sq=0.676
Observation
Forecast
Relative Humidity (%) QQ−Plot
1:1 Line
Observation
Forecast

SH(mmol/mol) at 2m: CMA Obs Station # 53772 37.78 degN 112.55 degE vs Forecast at 37.829 degN 112.605 degE
2006 All Times Local (UTC+8)

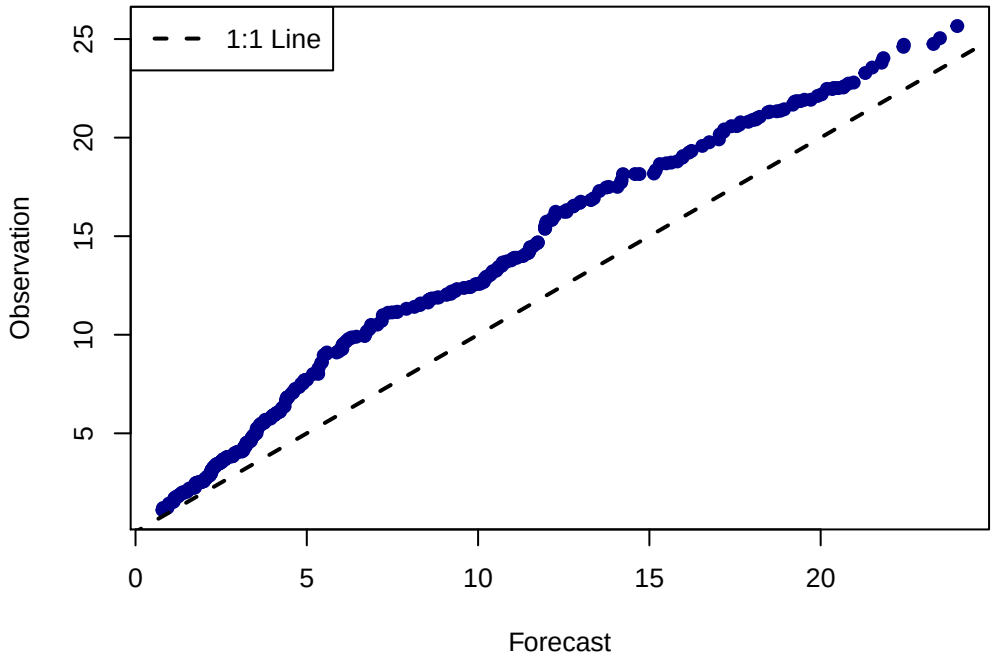


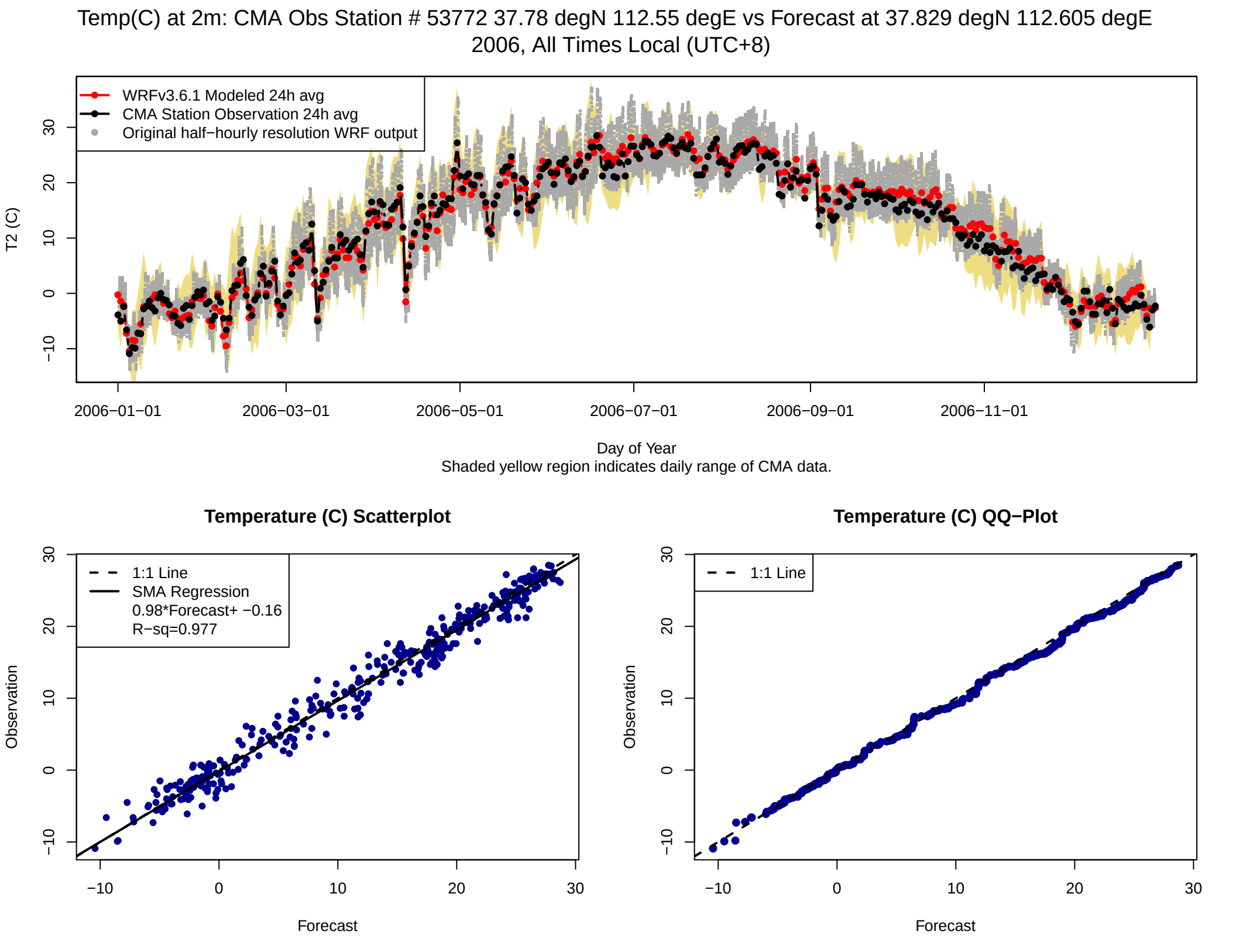
Shaded yellow region indicates daily range of CMA data. (No daily max available for SH)

Specific Humidity (mmol/mol) Scatterplot

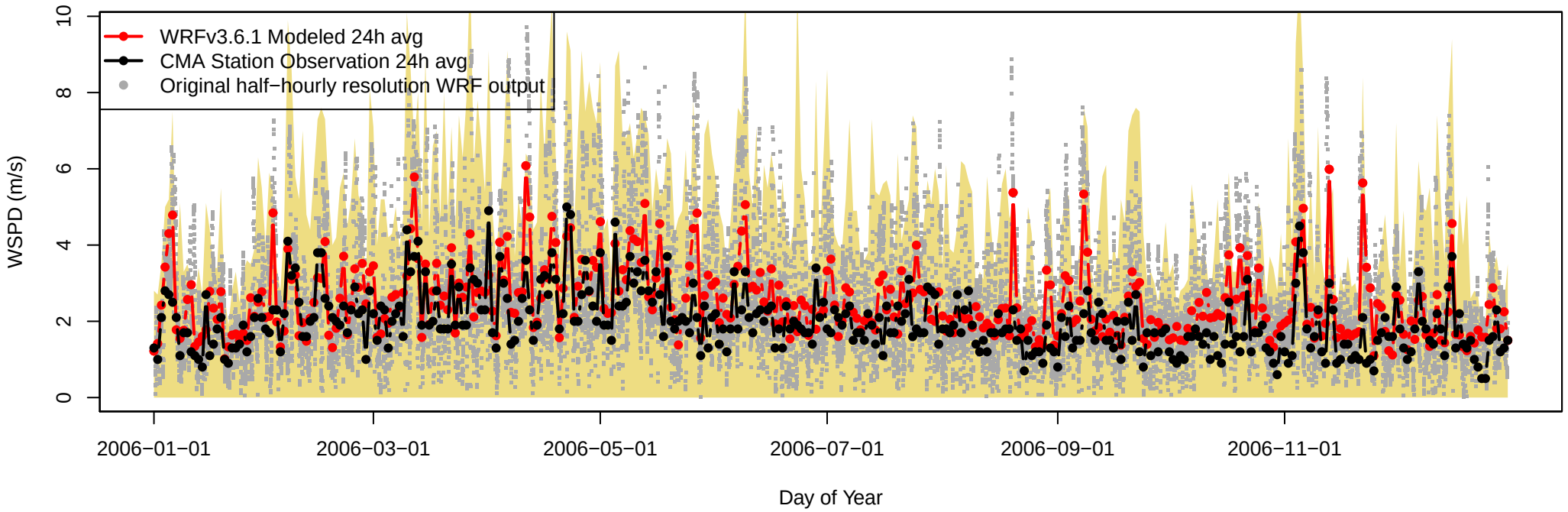


Specific Humidity (mmol/mol) QQ−Plot



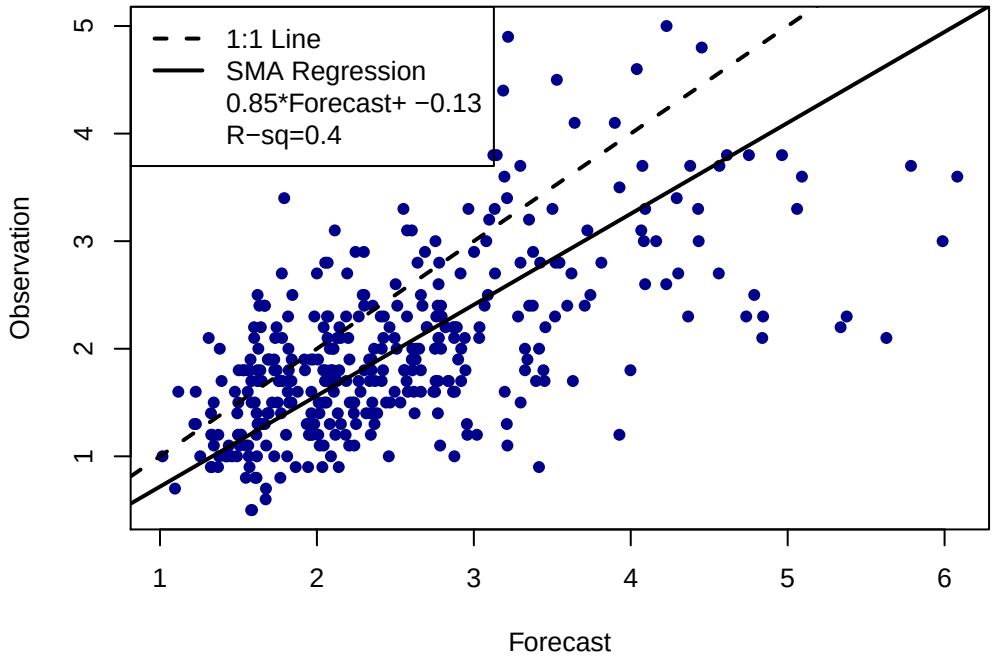

Temp(C) at 2m: CMA Obs Station # 53772 37.78 degN 112.55 degE vs Forecast at 37.829 degN 112.605 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
T2 (C)
30
20
10
0
−10
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data.
Temperature (C) Scatterplot
1:1 Line
SMA Regression
0.98*Forecast+ −0.16
R−sq=0.977
Observation
Forecast
−10
0
10
20
30
Temperature (C) QQ−Plot
1:1 Line
Observation
Forecast

Wind Speed (m/s) at 10m: CMA Obs Station # 53772 37.78 degN 112.55 degE vs Forecast at 37.829 degN 112.605 degE
2006, All Times Local (UTC+8)

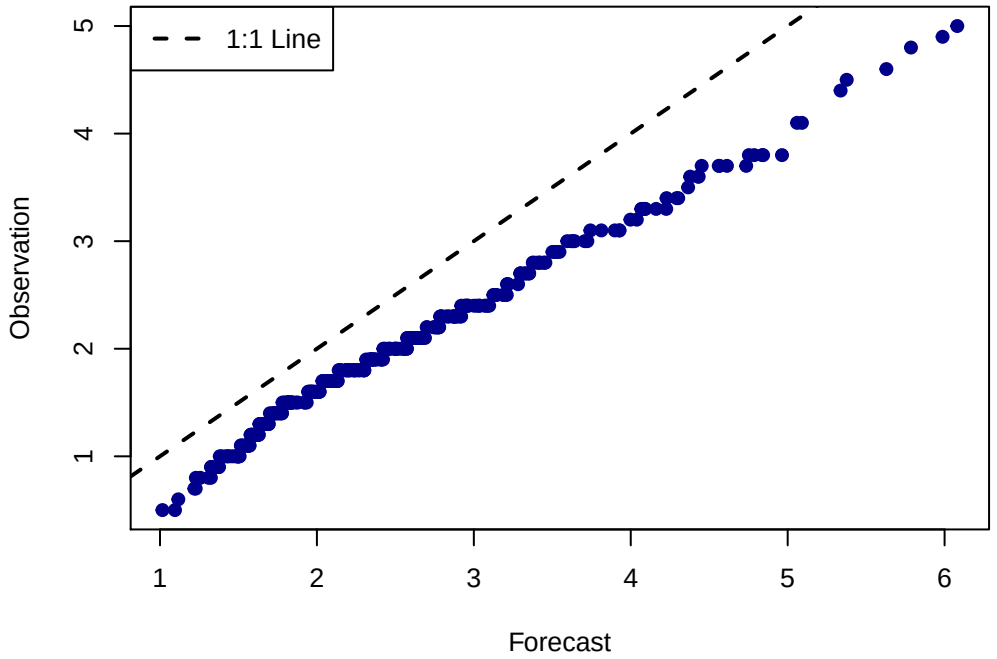


Shaded yellow region indicates daily range of CMA data. Min daily WSPD unavailable but assumed (and set at) 0.

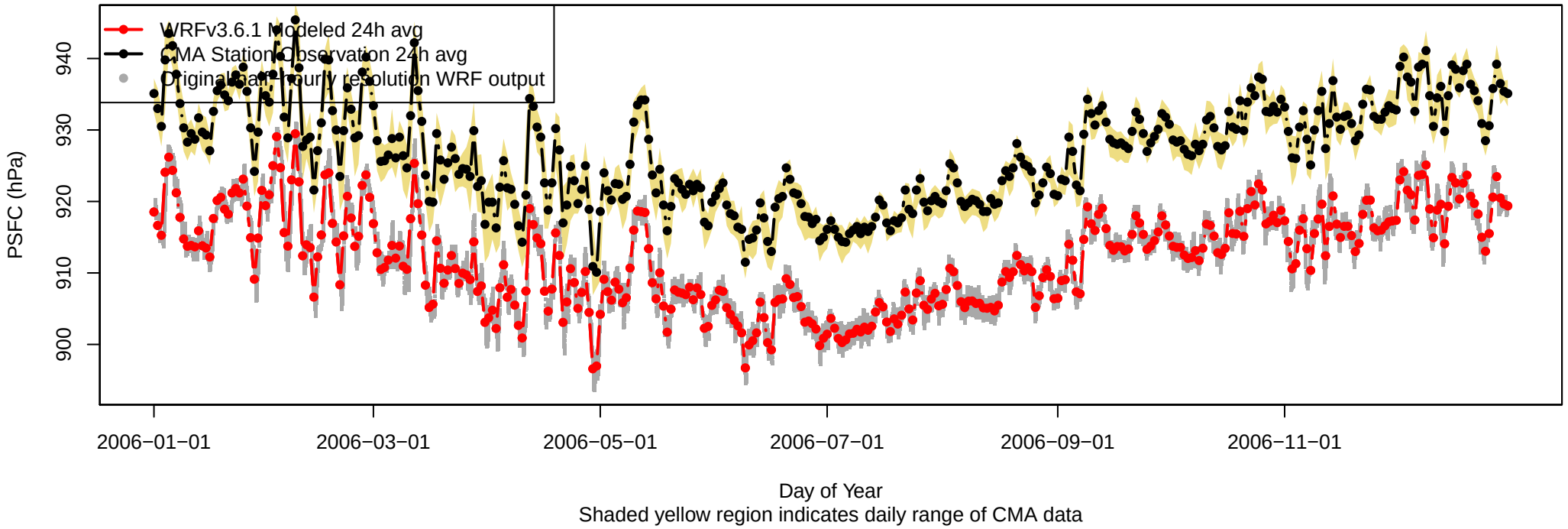
Wind Speed (m/s) Scatterplot

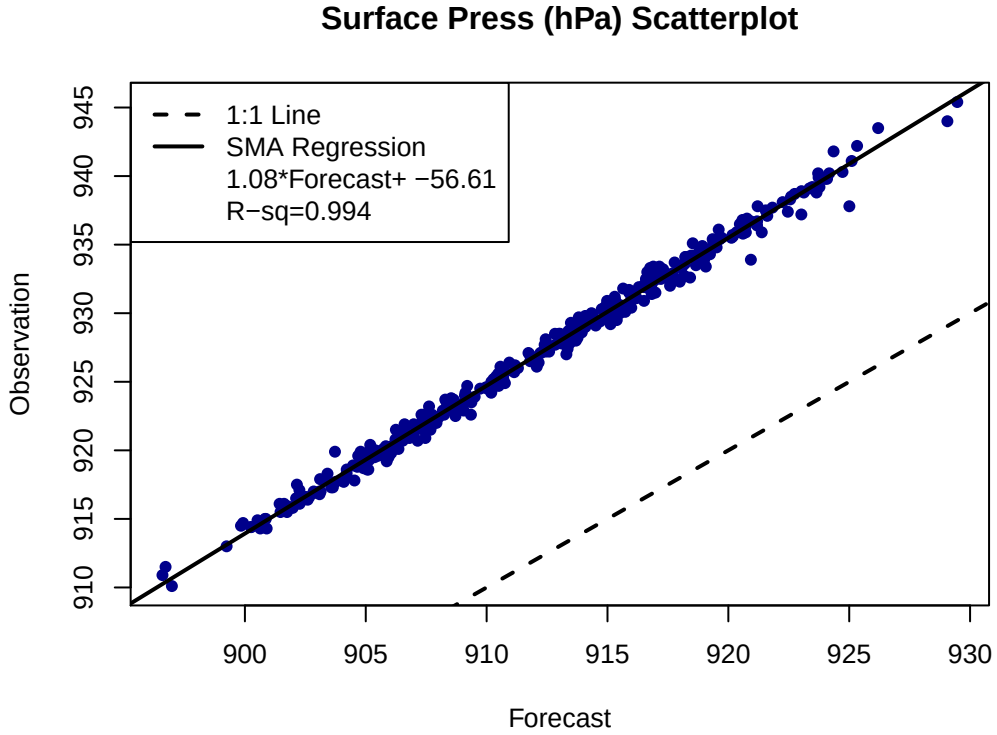


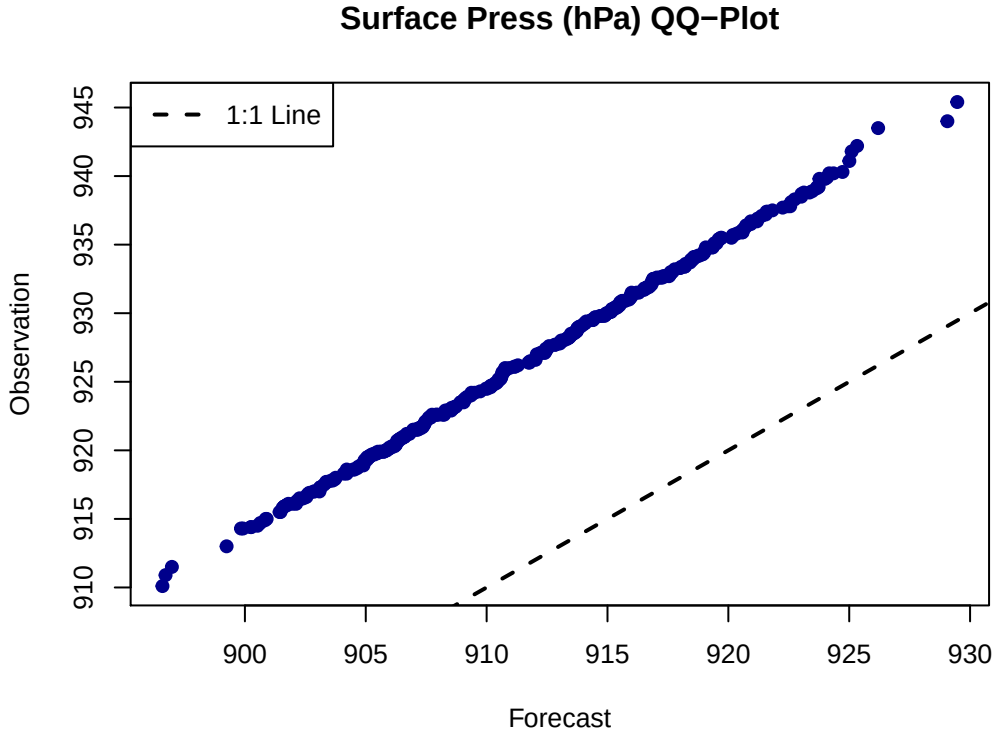
Wind Speed (m/s) QQ−Plot



Surface Press (hPa): CMA Obs Station # 53772 37.78 degN 112.55 degE vs Forecast at 37.829 degN 112.605 degE
2006, All Times Local (UTC+8)

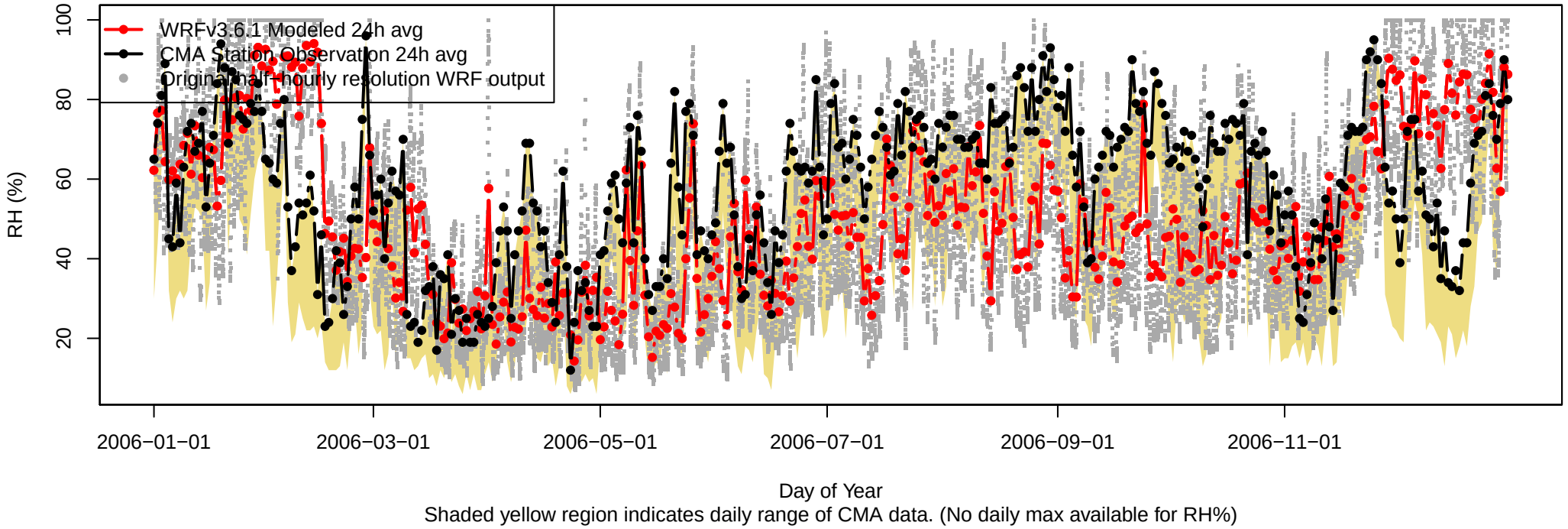






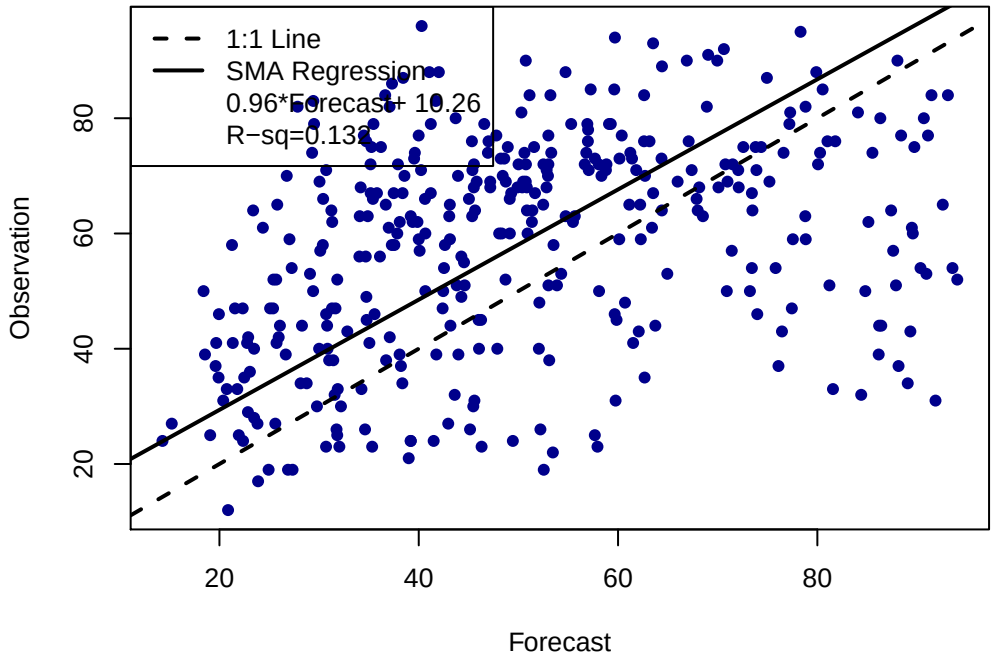
CMA Obs Station # 53863 37.03 degN 111.92 degE
vs Forecast at 41.672 degN 112.851 degE
2006, All Times Local (UTC+8)

Surface RH(%): CMA Obs Station # 53863 37.03 degN 111.92 degE vs 2m Forecast at 41.672 degN 112.851 degE
2006, All Times Local (UTC+8)

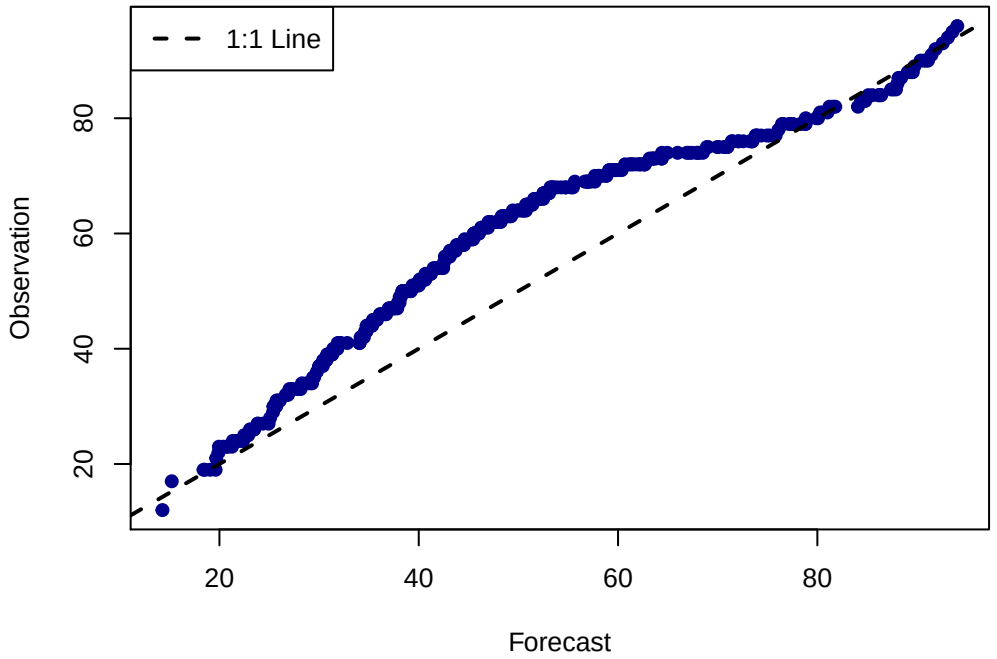


Shaded yellow region indicates daily range of CMA data. (No daily max available for RH%)

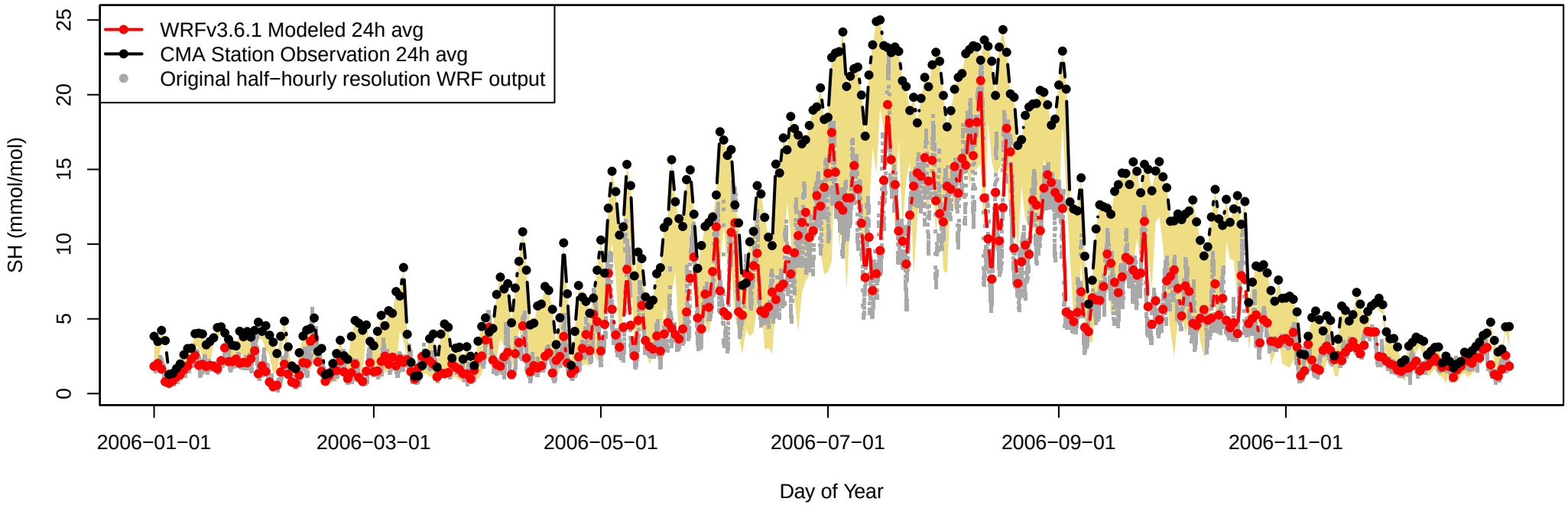
Relative Humidity (%) Scatterplot



Relative Humidity (%) QQ−Plot

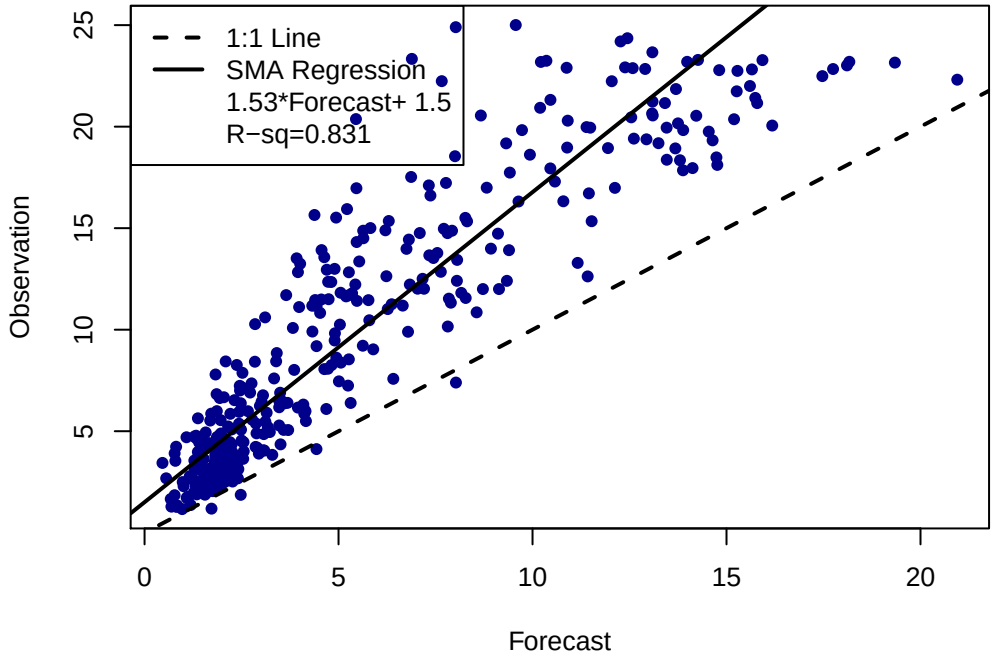


SH(mmol/mol) at 2m: CMA Obs Station # 53863 37.03 degN 111.92 degE vs Forecast at 41.672 degN 112.851 degE
2006 All Times Local (UTC+8)

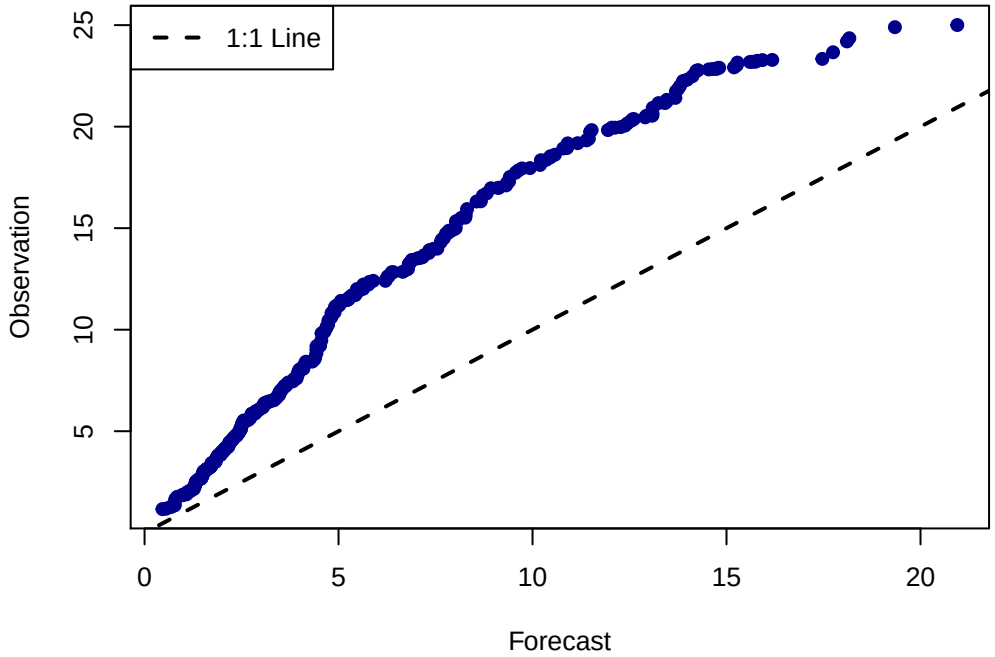


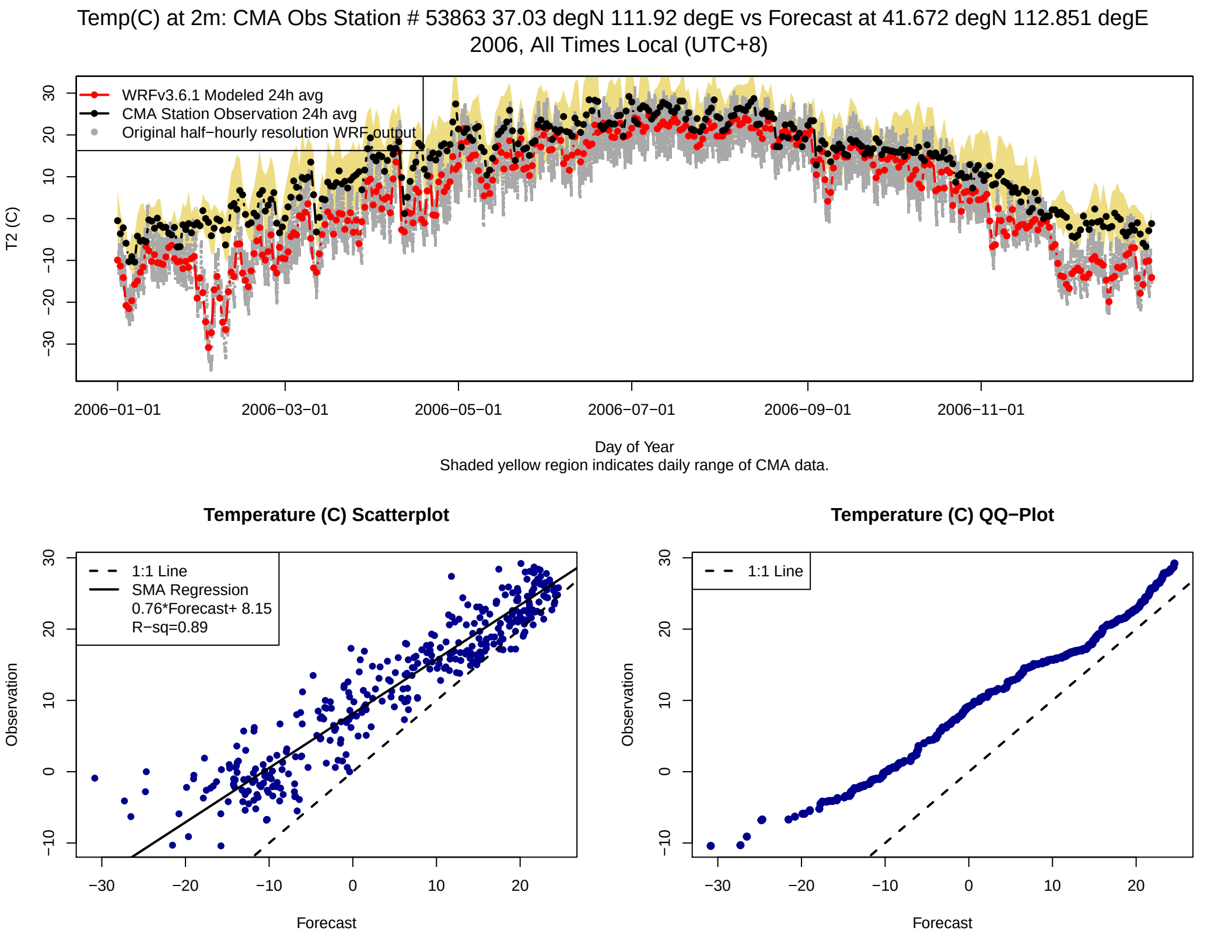
Shaded yellow region indicates daily range of CMA data. (No daily max available for SH)

Specific Humidity (mmol/mol) Scatterplot

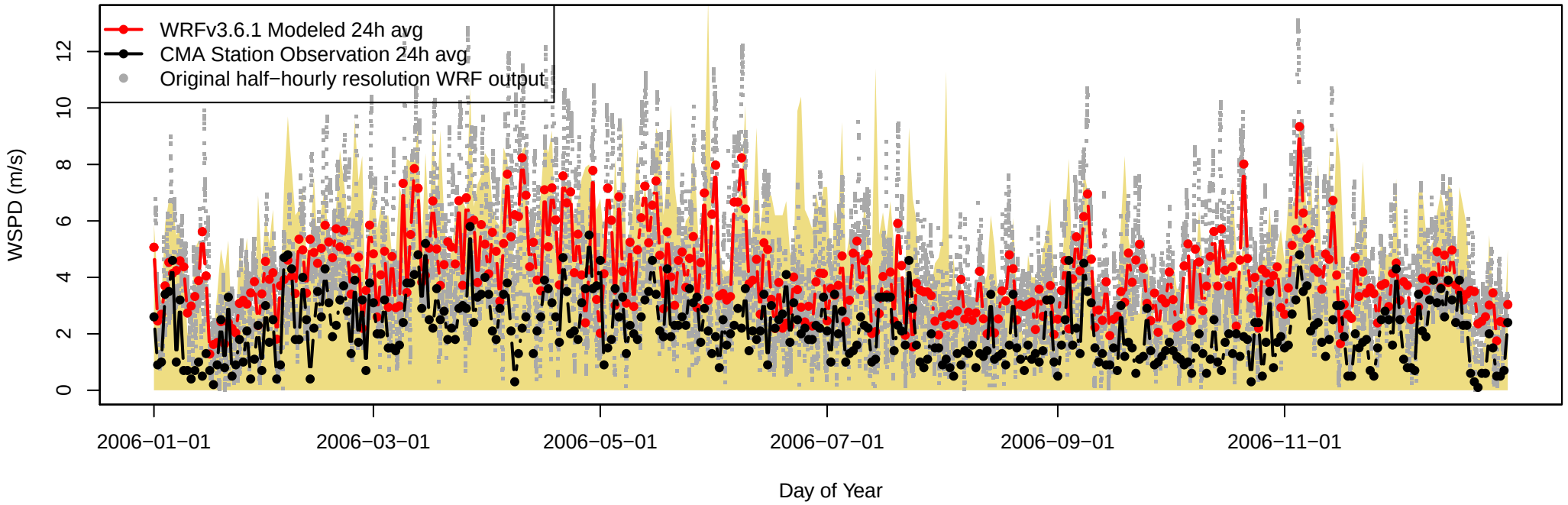


Specific Humidity (mmol/mol) QQ−Plot



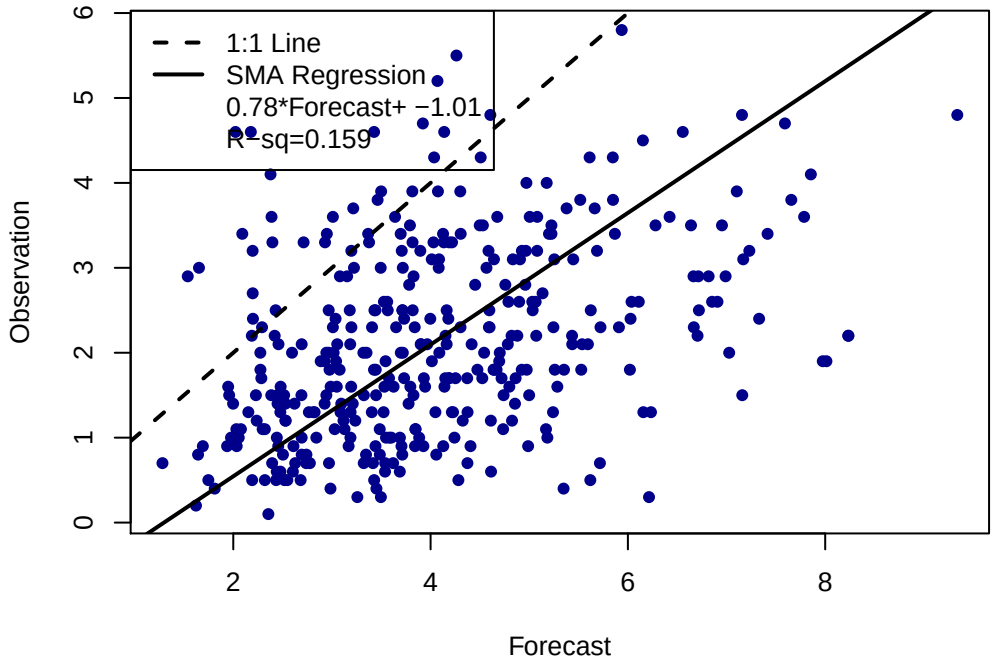

Temp(C) at 2m: CMA Obs Station # 53863 37.03 degN 111.92 degE vs Forecast at 41.672 degN 112.851 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
T2 (C)
30
20
10
0
−10
−20
−30
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data.
Temperature (C) Scatterplot
1:1 Line
SMA Regression
0.76*Forecast+ 8.15
R−sq=0.89
Observation
Forecast
−30
−20
−10
0
10
20
Temperature (C) QQ−Plot
1:1 Line
Observation
Forecast

Wind Speed (m/s) at 10m: CMA Obs Station # 53863 37.03 degN 111.92 degE vs Forecast at 41.672 degN 112.851 degE
2006, All Times Local (UTC+8)

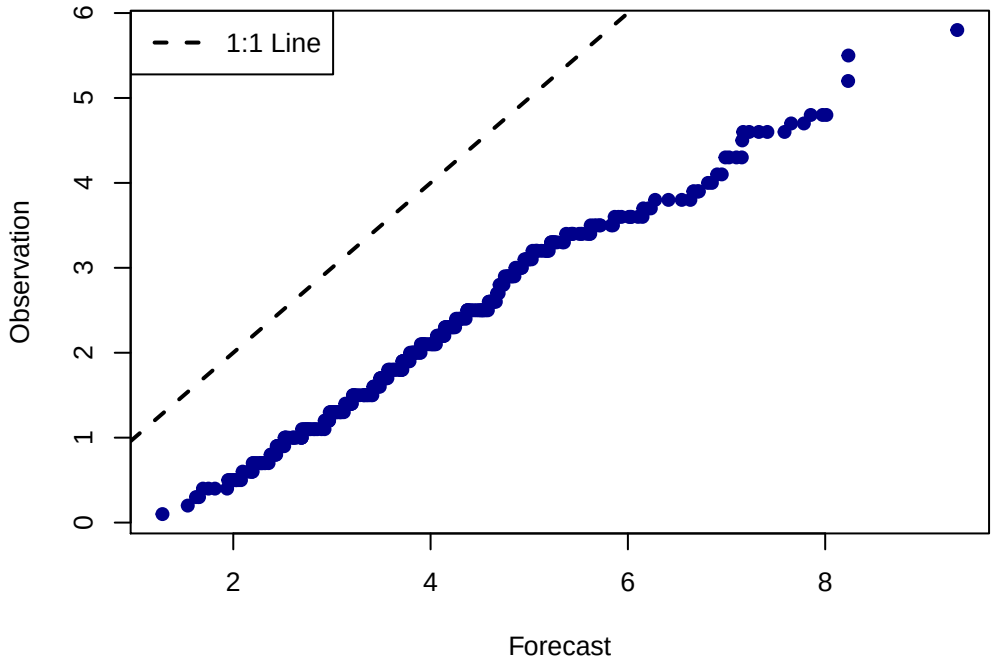


Shaded yellow region indicates daily range of CMA data. Min daily WSPD unavailable but assumed (and set at) 0.

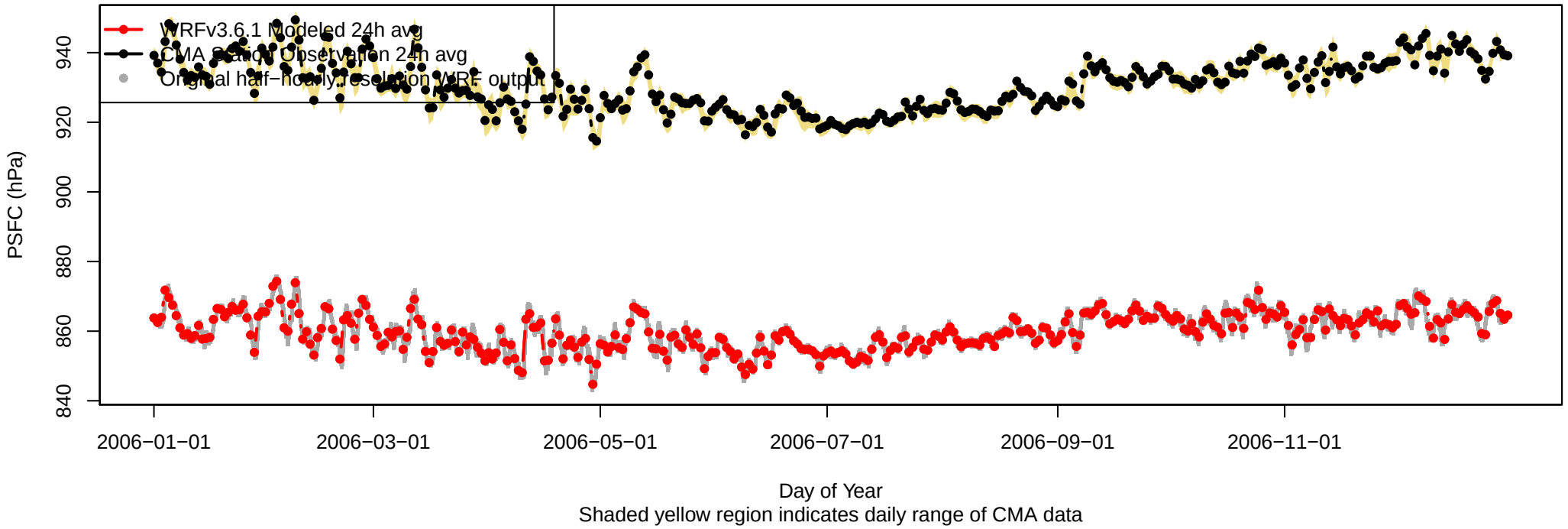
Wind Speed (m/s) Scatterplot

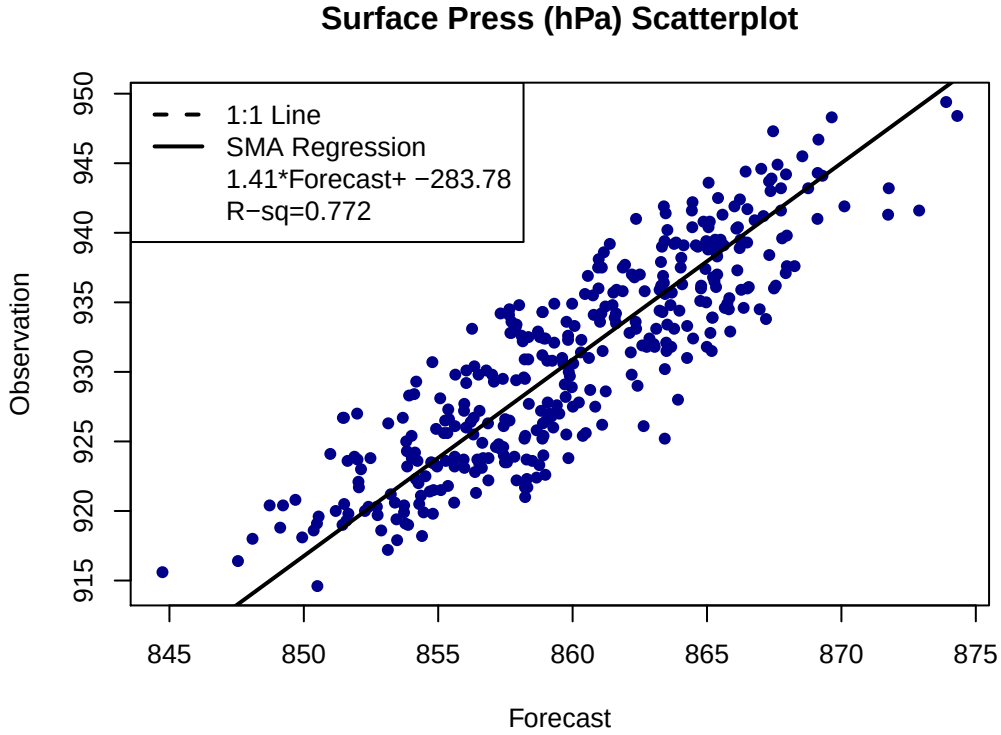


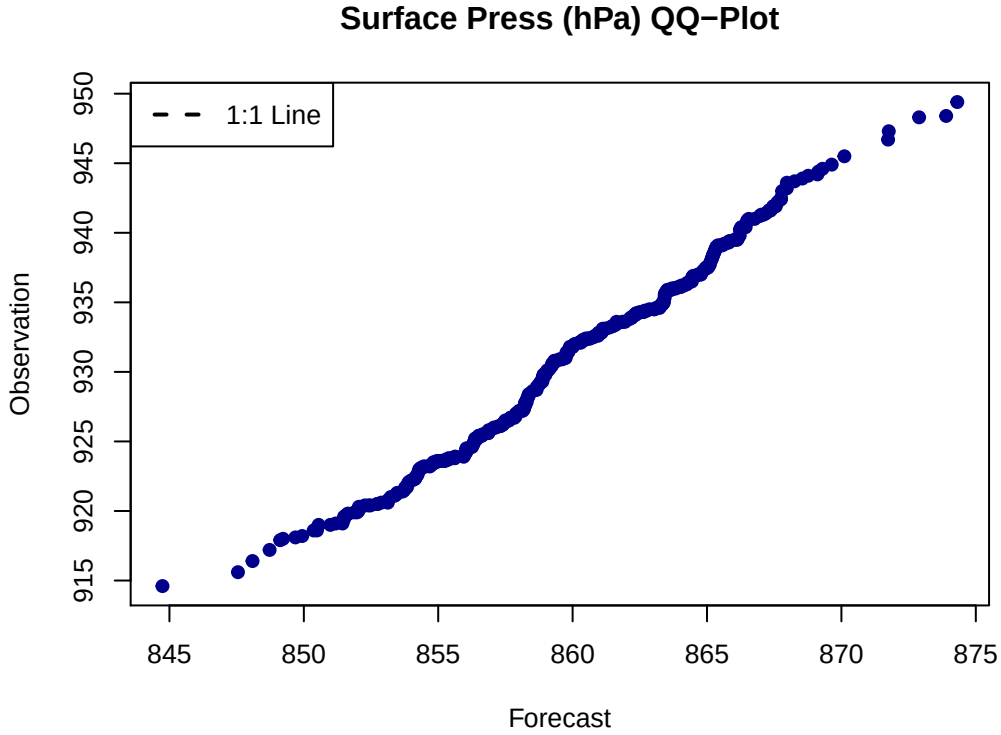
Wind Speed (m/s) QQ−Plot



Surface Press (hPa): CMA Obs Station # 53863 37.03 degN 111.92 degE vs Forecast at 41.672 degN 112.851 degE
2006, All Times Local (UTC+8)

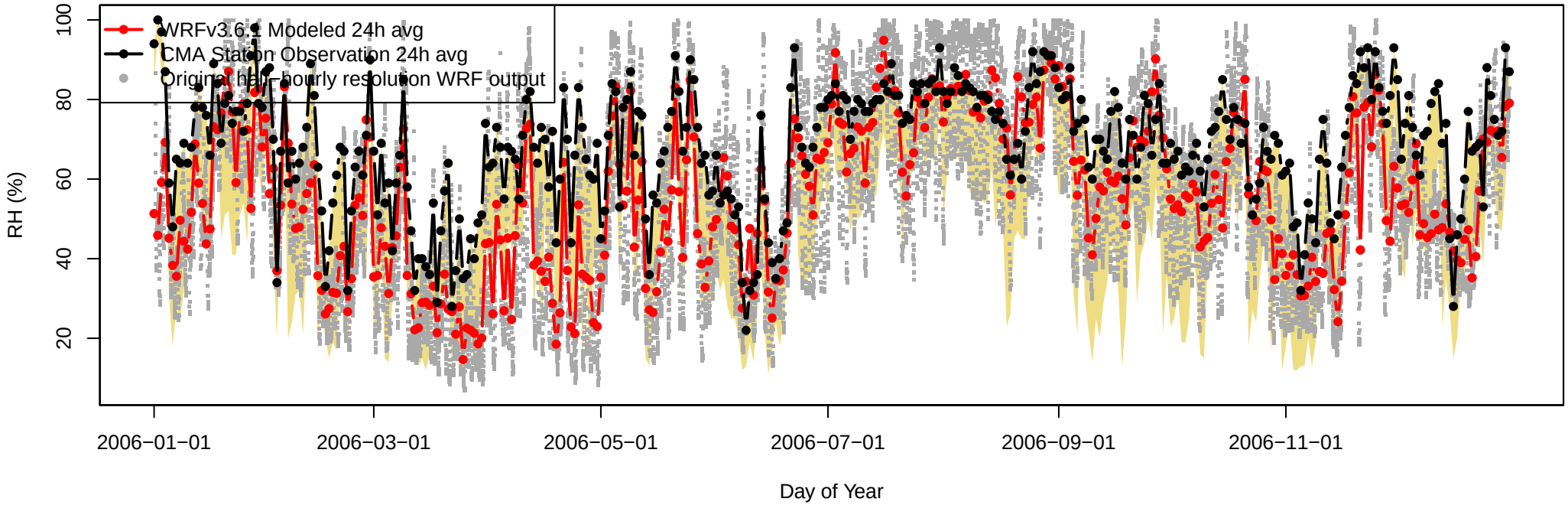






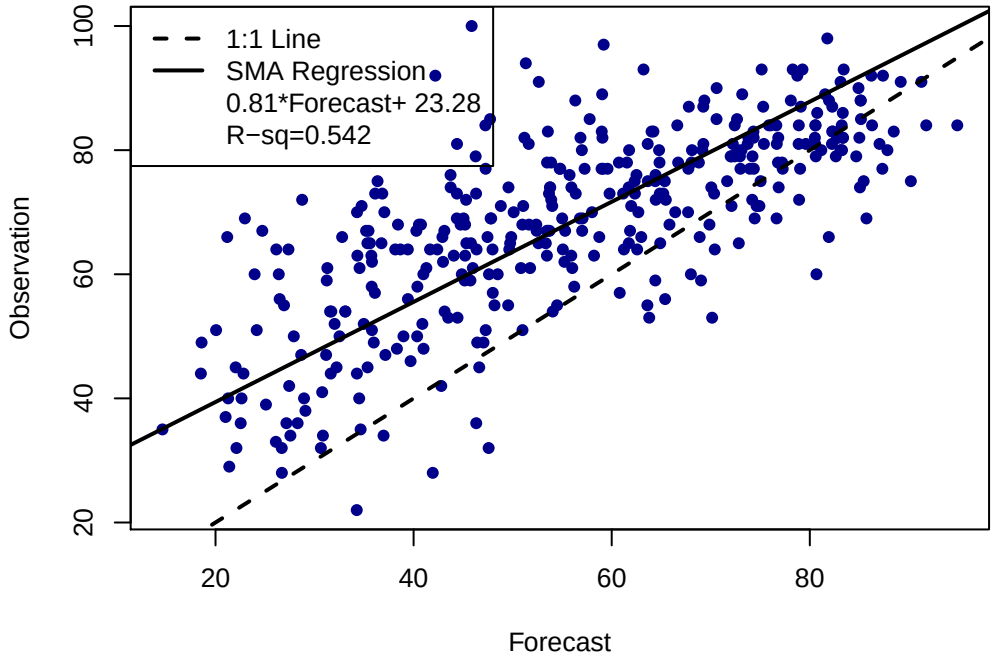
CMA Obs Station # 53898 36.05 degN 114.4 degE
vs Forecast at 36.118 degN 113.192 degE
2006, All Times Local (UTC+8)

Surface RH(%): CMA Obs Station # 53898 36.05 degN 114.4 degE vs 2m Forecast at 36.118 degN 113.192 degE
2006, All Times Local (UTC+8)

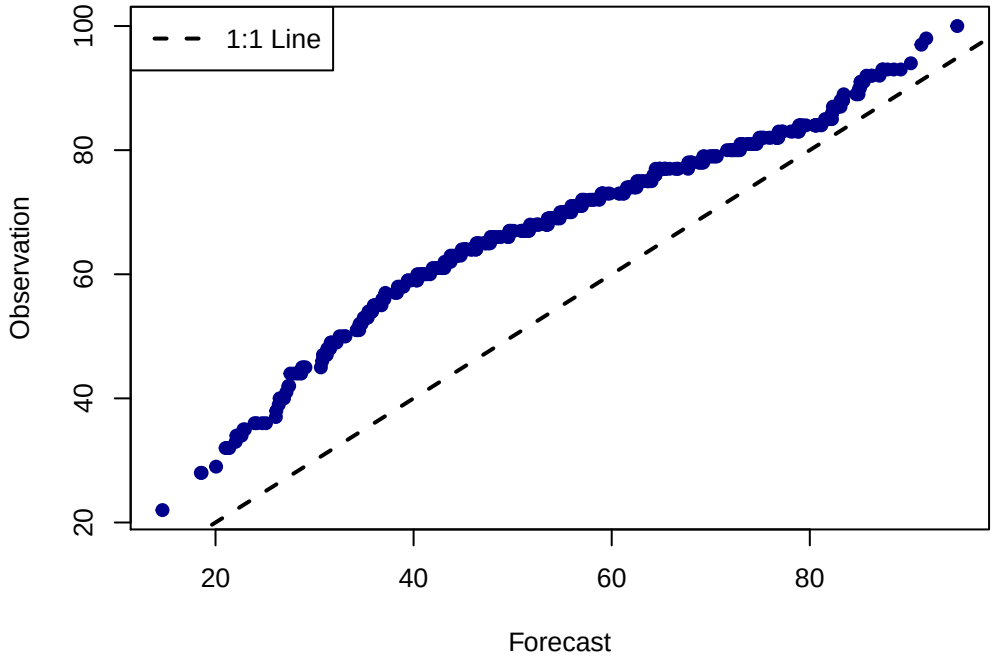


Shaded yellow region indicates daily range of CMA data. (No daily max available for RH%)

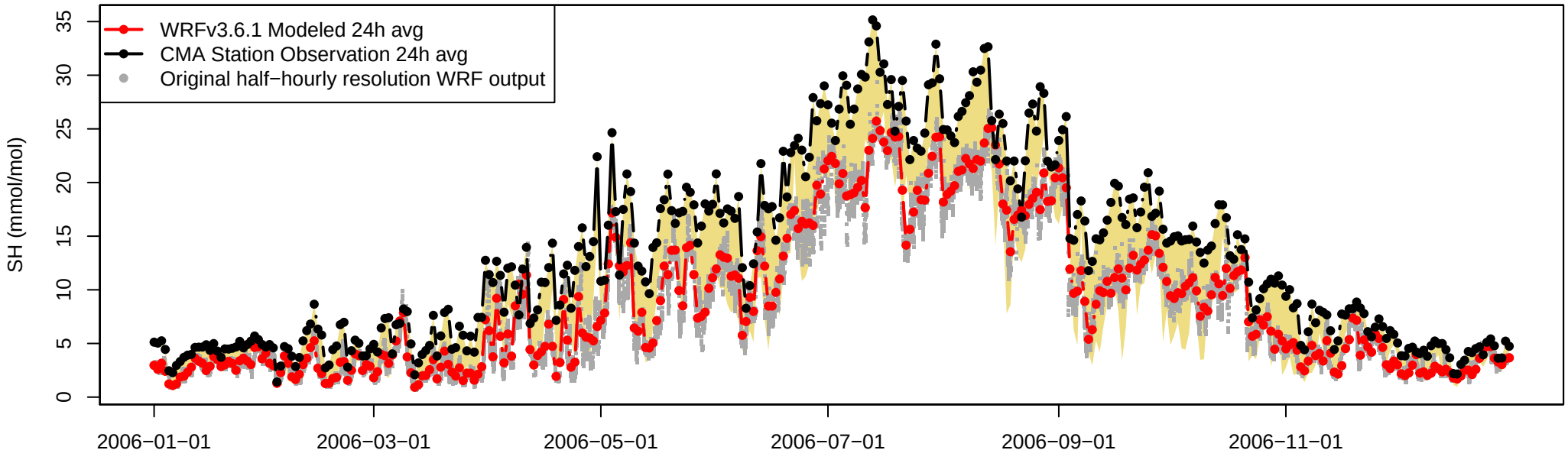
Relative Humidity (%) Scatterplot



Relative Humidity (%) QQ−Plot

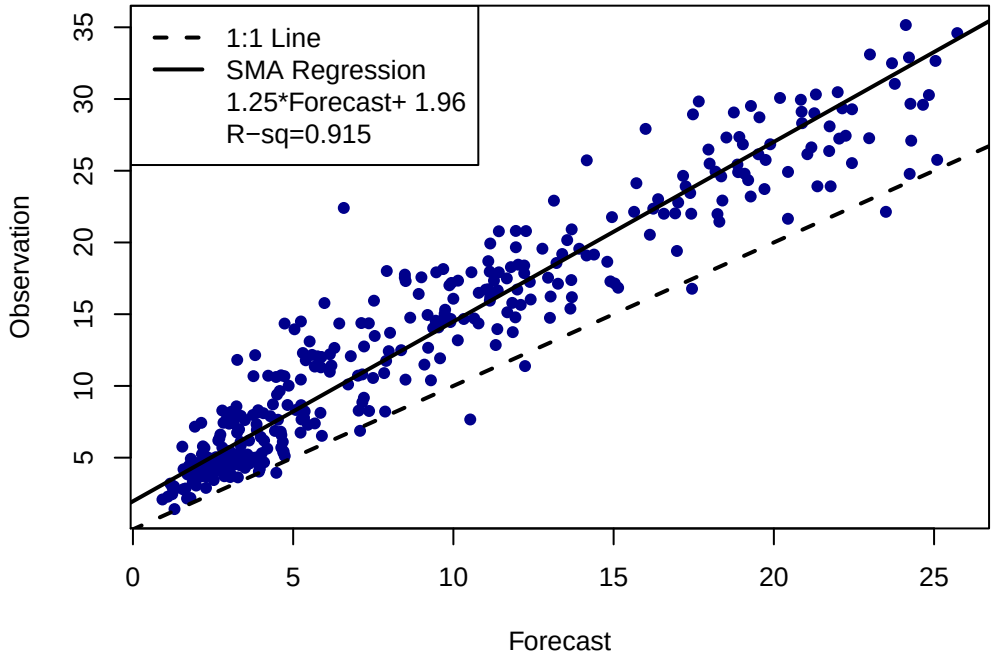


SH(mmol/mol) at 2m: CMA Obs Station # 53898 36.05 degN 114.4 degE vs Forecast at 36.118 degN 113.192 degE
2006 All Times Local (UTC+8)

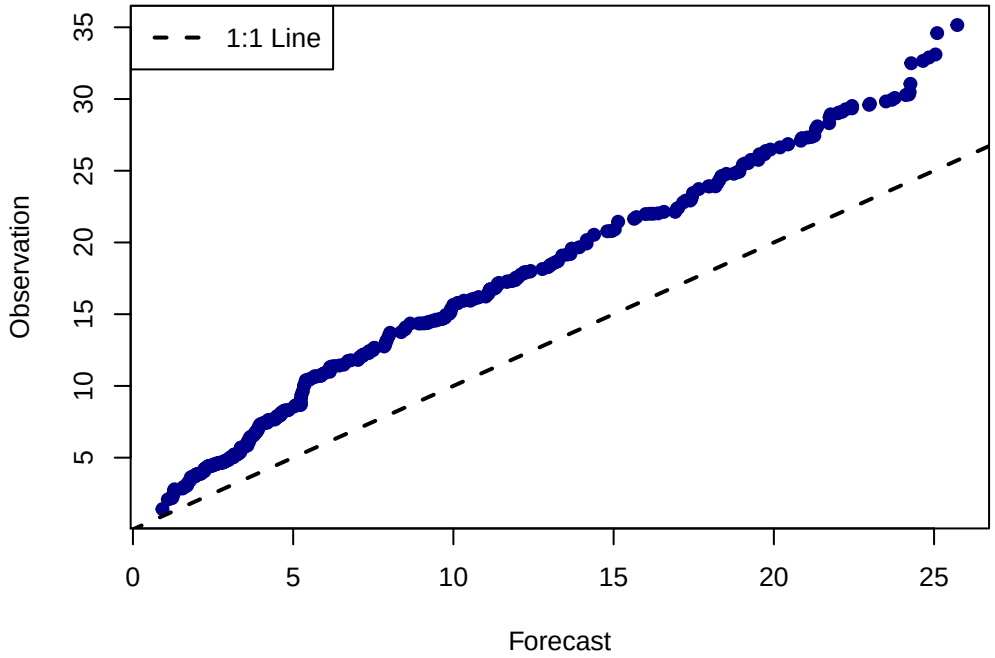


Shaded yellow region indicates daily range of CMA data. (No daily max available for SH)

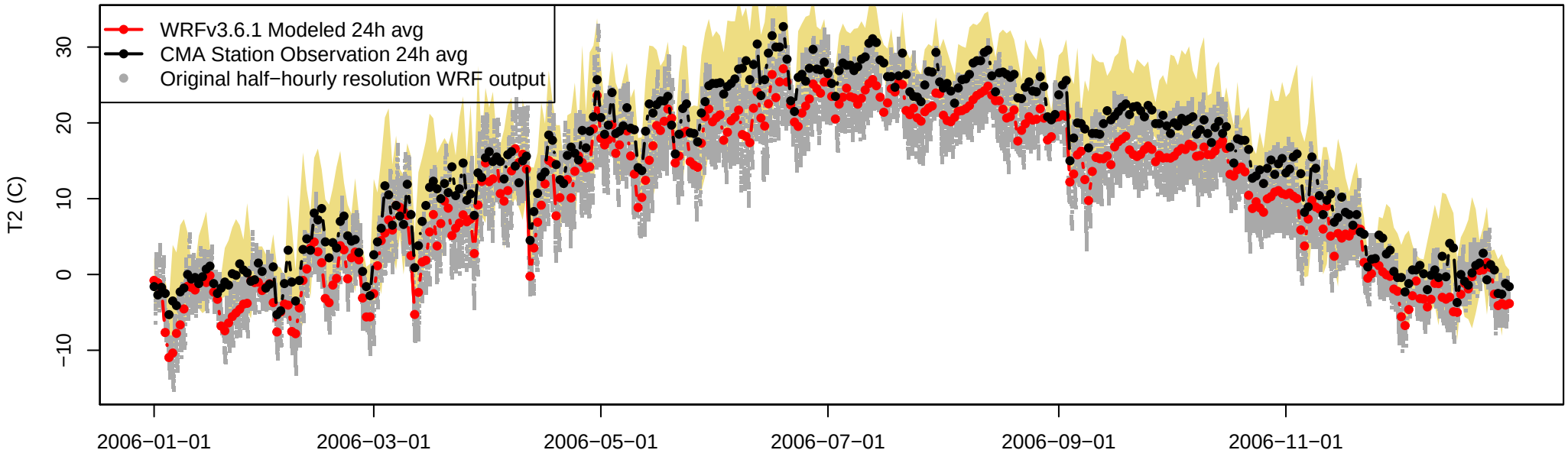
Specific Humidity (mmol/mol) Scatterplot



Specific Humidity (mmol/mol) QQ−Plot

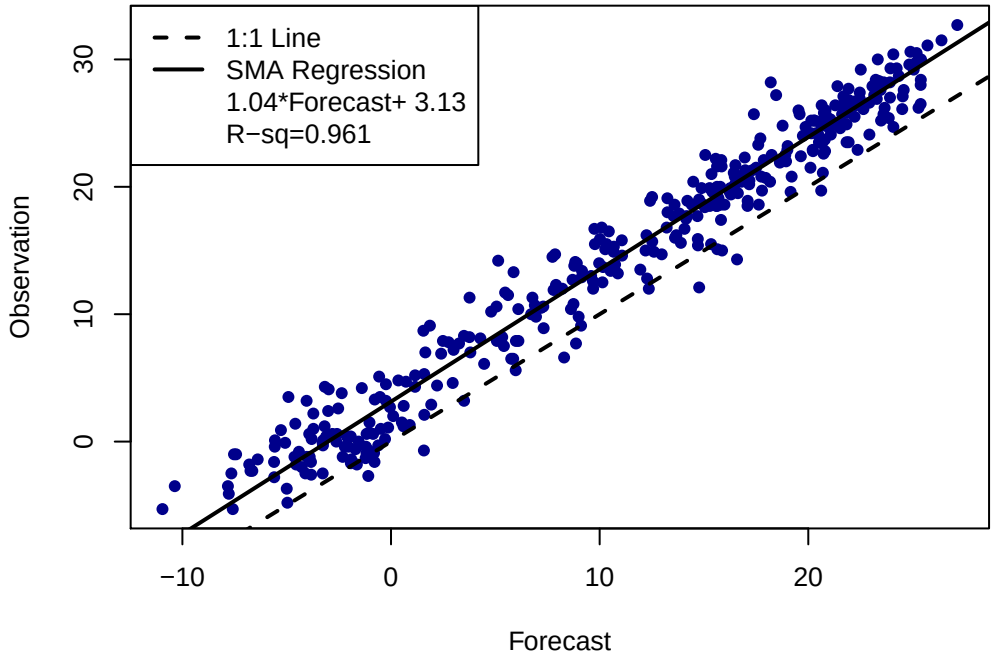


Temp(C) at 2m: CMA Obs Station # 53898 36.05 degN 114.4 degE vs Forecast at 36.118 degN 113.192 degE
2006, All Times Local (UTC+8)

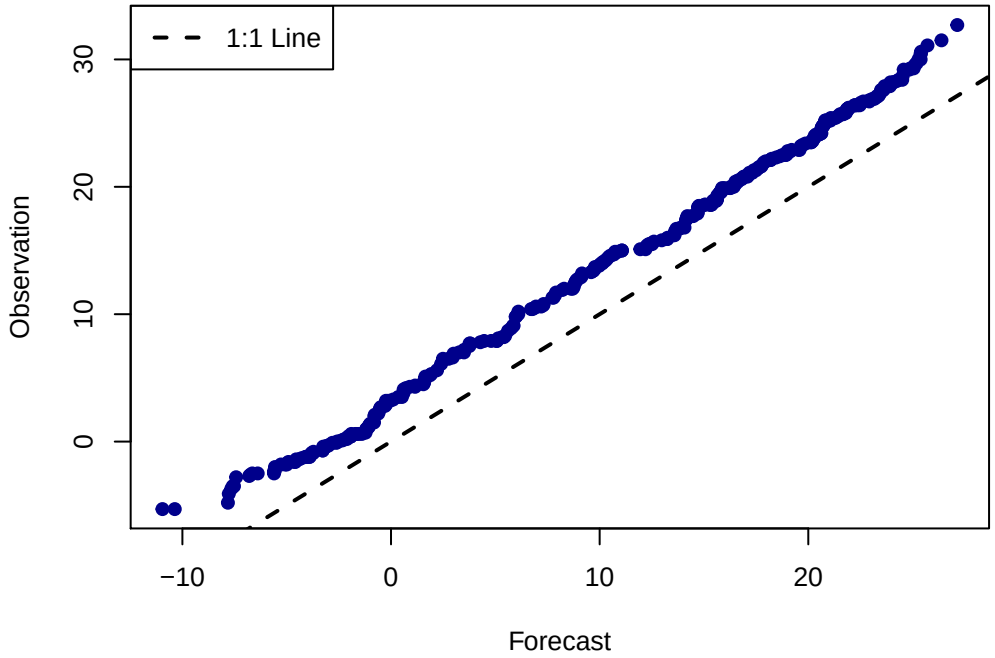


Shaded yellow region indicates daily range of CMA data.

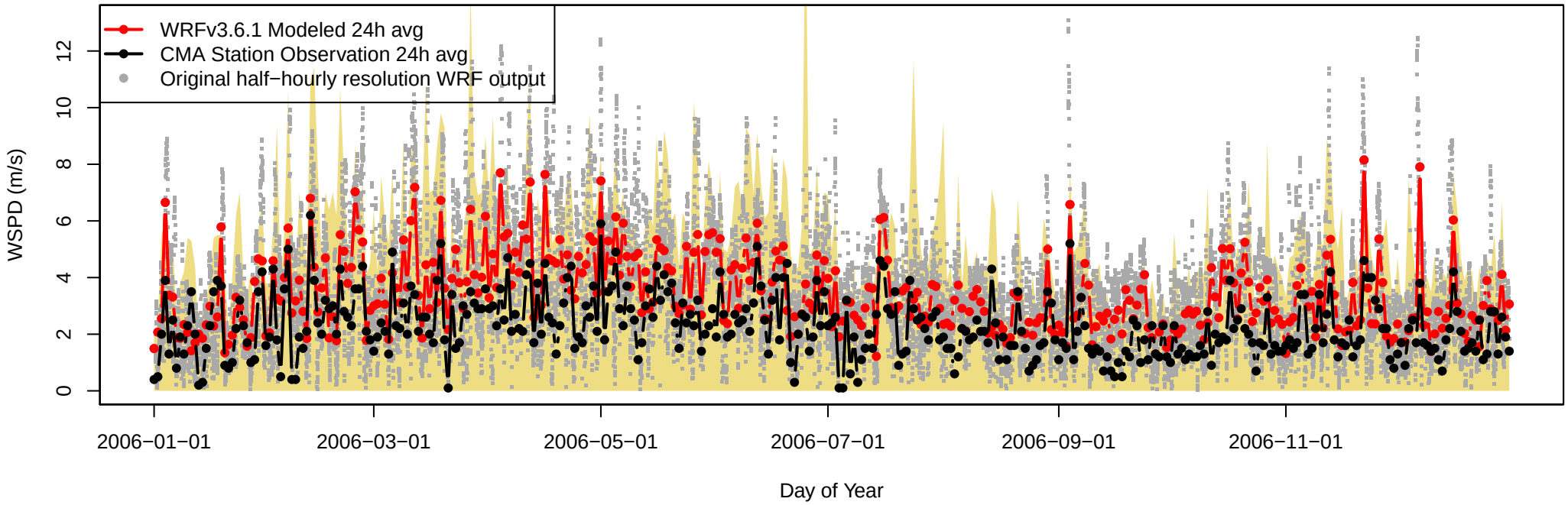
Temperature (C) Scatterplot



Temperature (C) QQ−Plot

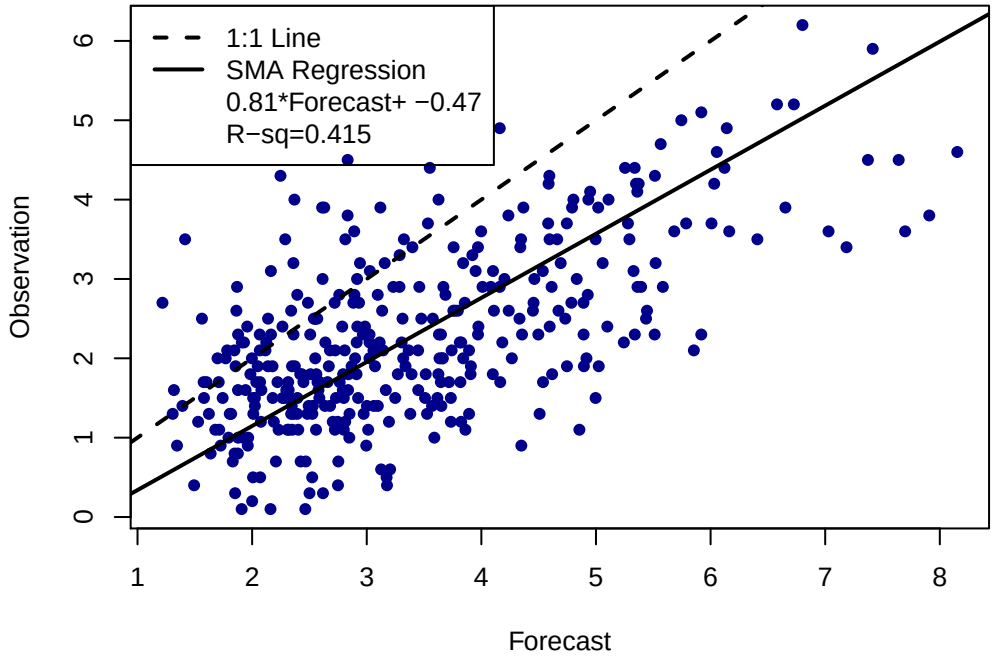


Wind Speed (m/s) at 10m: CMA Obs Station # 53898 36.05 degN 114.4 degE vs Forecast at 36.118 degN 113.192 degE
2006, All Times Local (UTC+8)

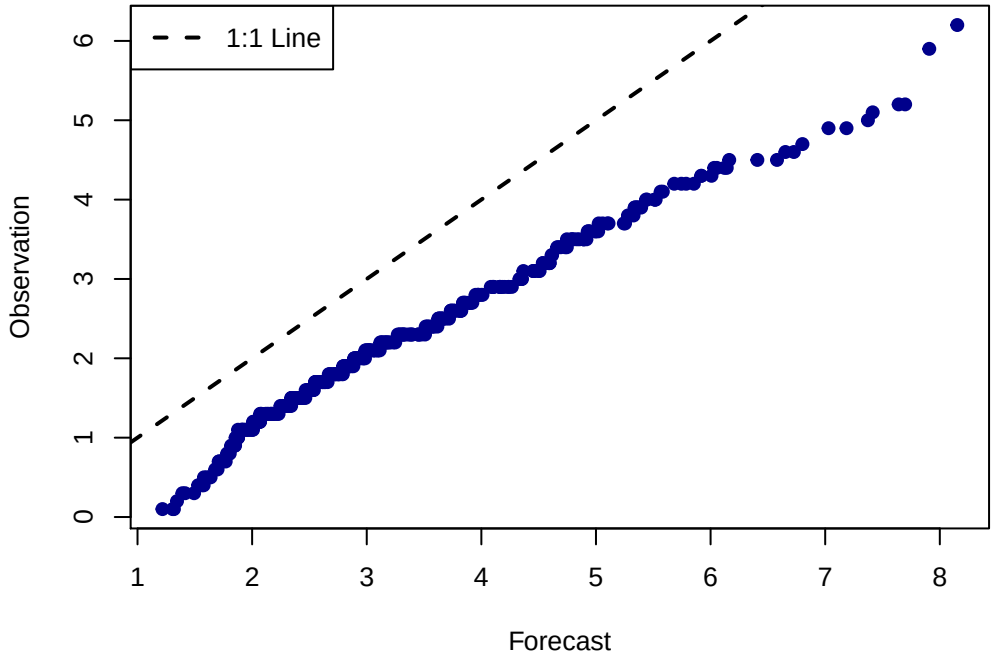


Shaded yellow region indicates daily range of CMA data. Min daily WSPD unavailable but assumed (and set at) 0.

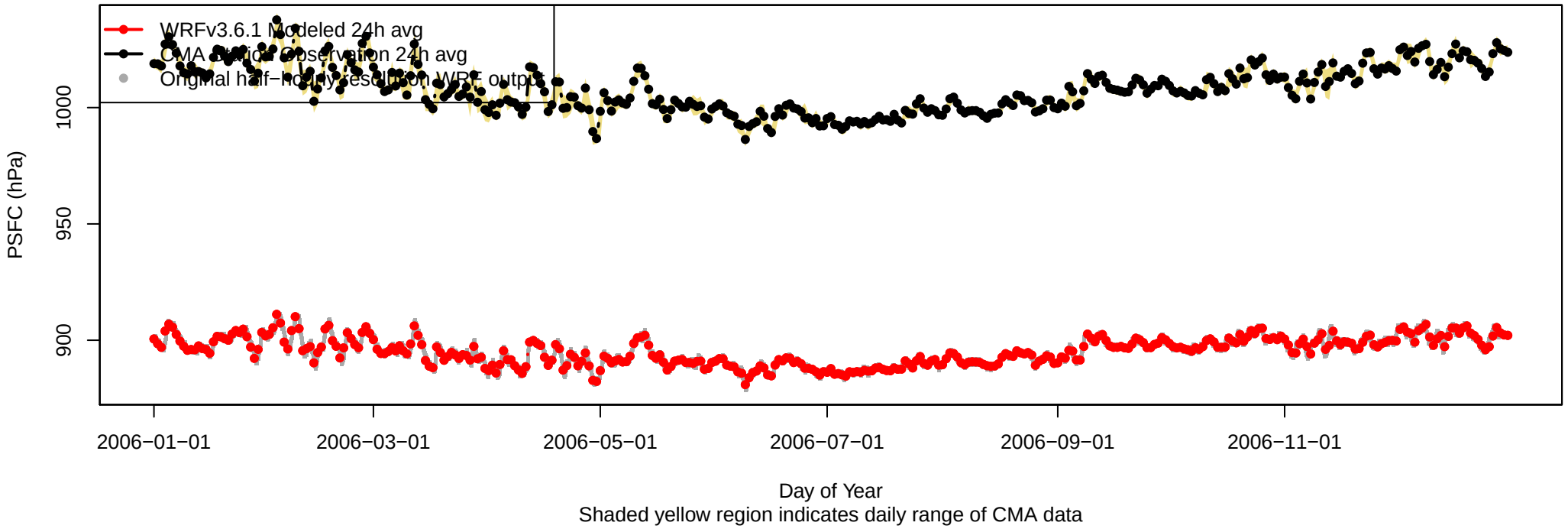
Wind Speed (m/s) Scatterplot



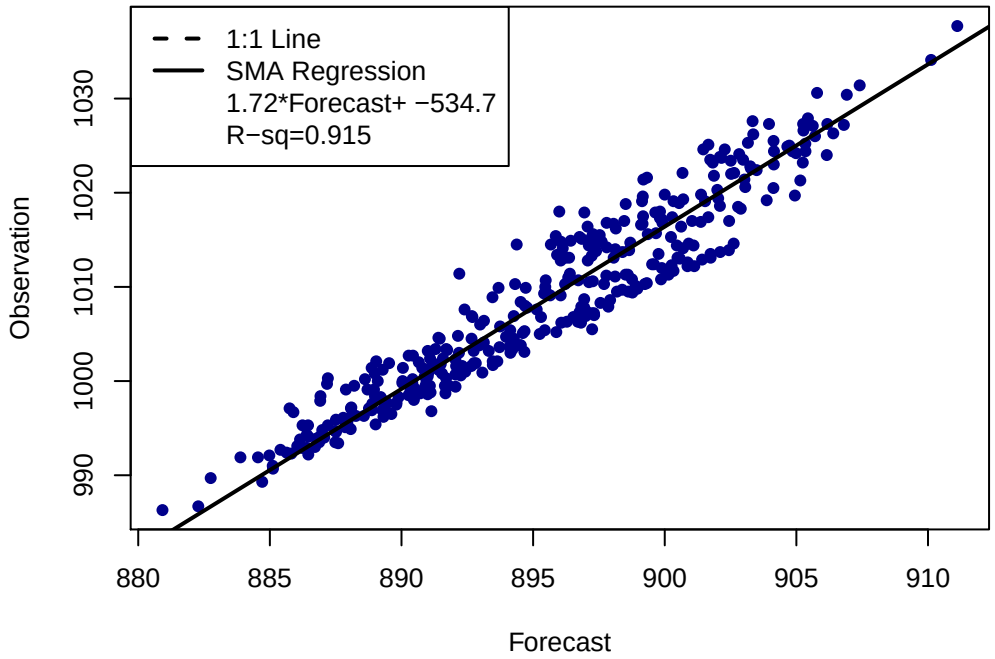
Wind Speed (m/s) QQ−Plot



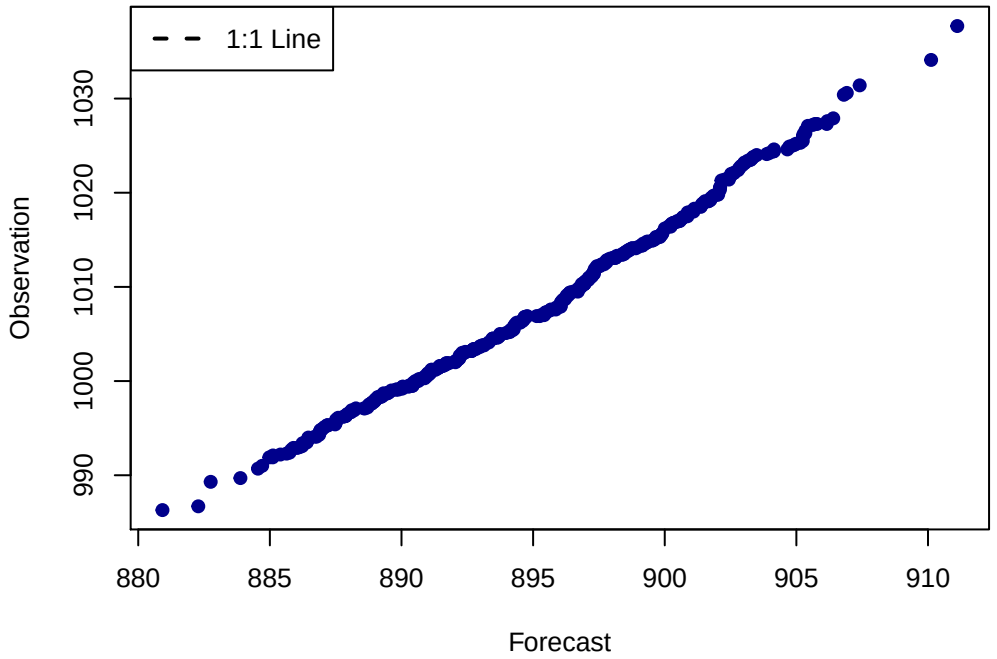
Surface Press (hPa): CMA Obs Station # 53898 36.05 degN 114.4 degE vs Forecast at 36.118 degN 113.192 degE
2006, All Times Local (UTC+8)



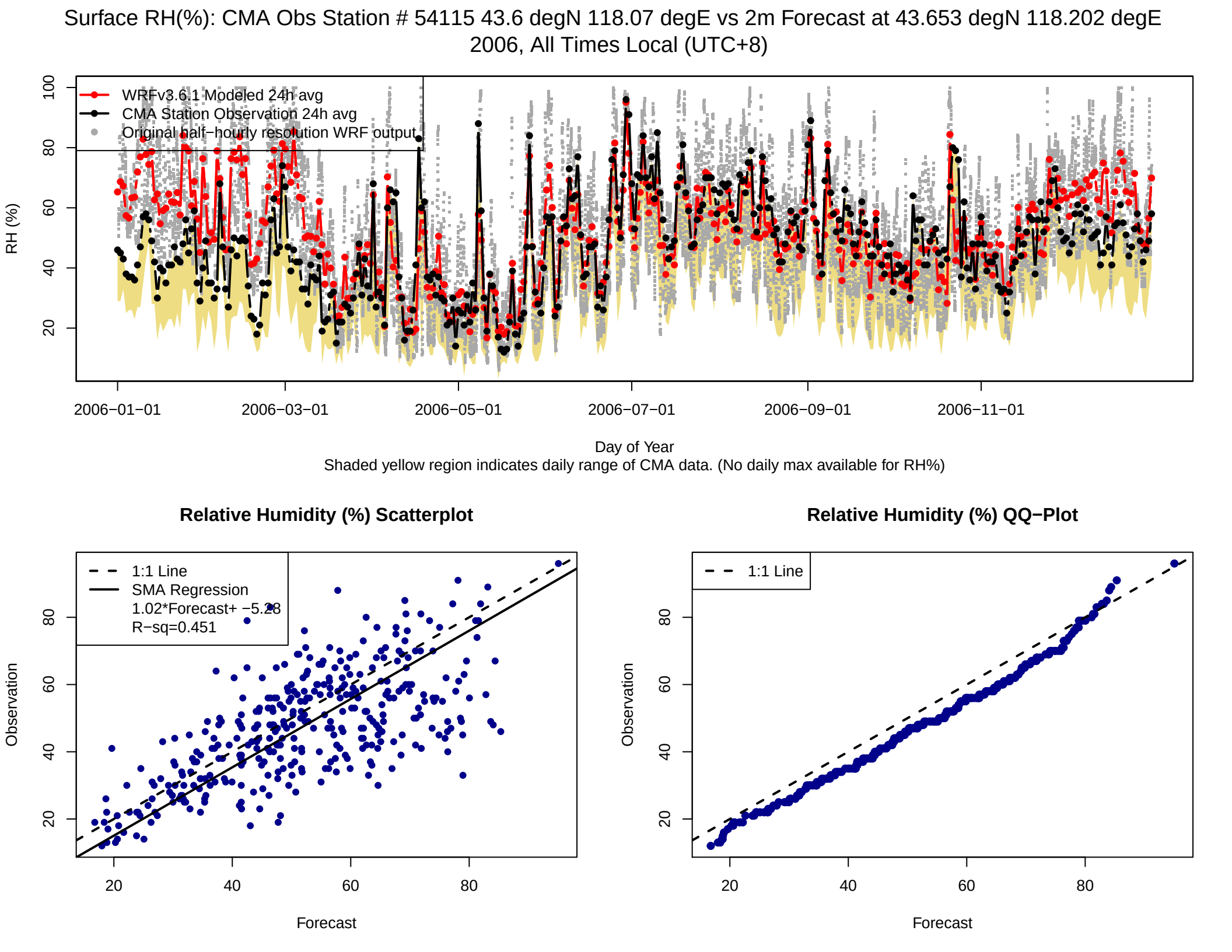
Surface Press (hPa) Scatterplot



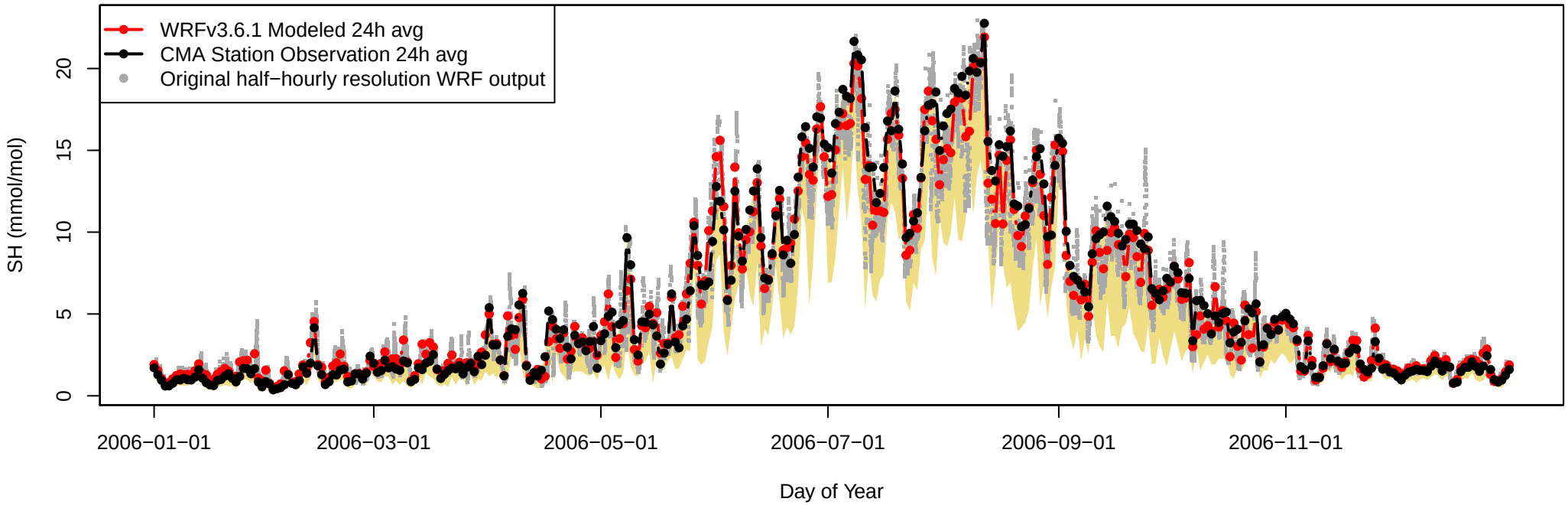
Surface Press (hPa) QQ−Plot



CMA Obs Station # 54115 43.6 degN 118.07 degE
vs Forecast at 43.653 degN 118.202 degE
2006, All Times Local (UTC+8)

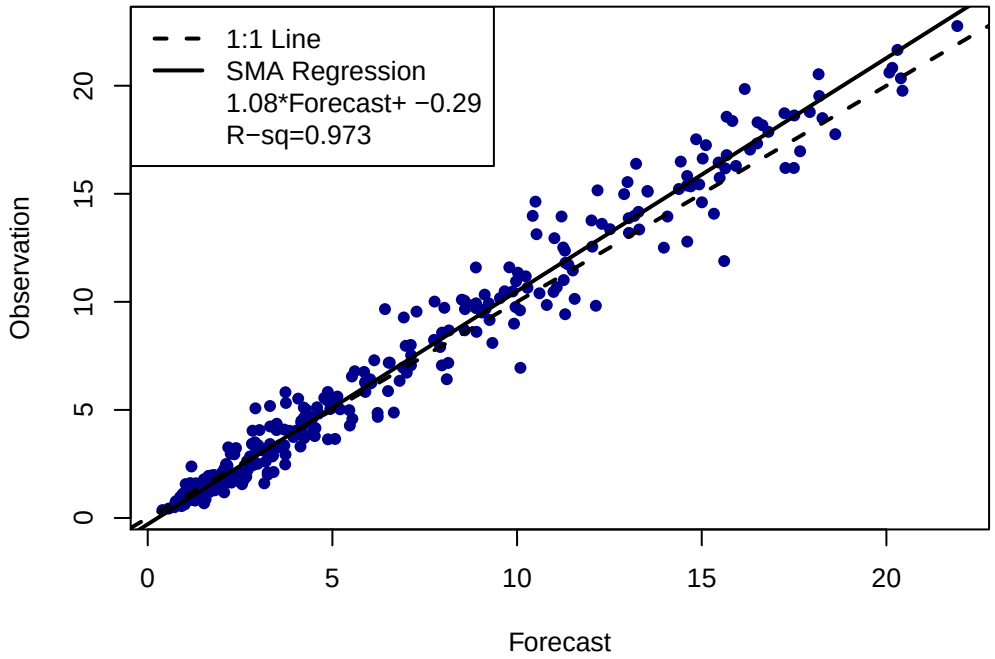

Surface RH(%): CMA Obs Station # 54115 43.6 degN 118.07 degE vs 2m Forecast at 43.653 degN 118.202 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
RH (%)
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data. (No daily max available for RH%)
Relative Humidity (%) Scatterplot
1:1 Line
SMA Regression
1.02*Forecast+ −5.28
R−sq=0.451
Observation
Forecast
Relative Humidity (%) QQ−Plot
1:1 Line
Observation
Forecast

SH(mmol/mol) at 2m: CMA Obs Station # 54115 43.6 degN 118.07 degE vs Forecast at 43.653 degN 118.202 degE
2006 All Times Local (UTC+8)

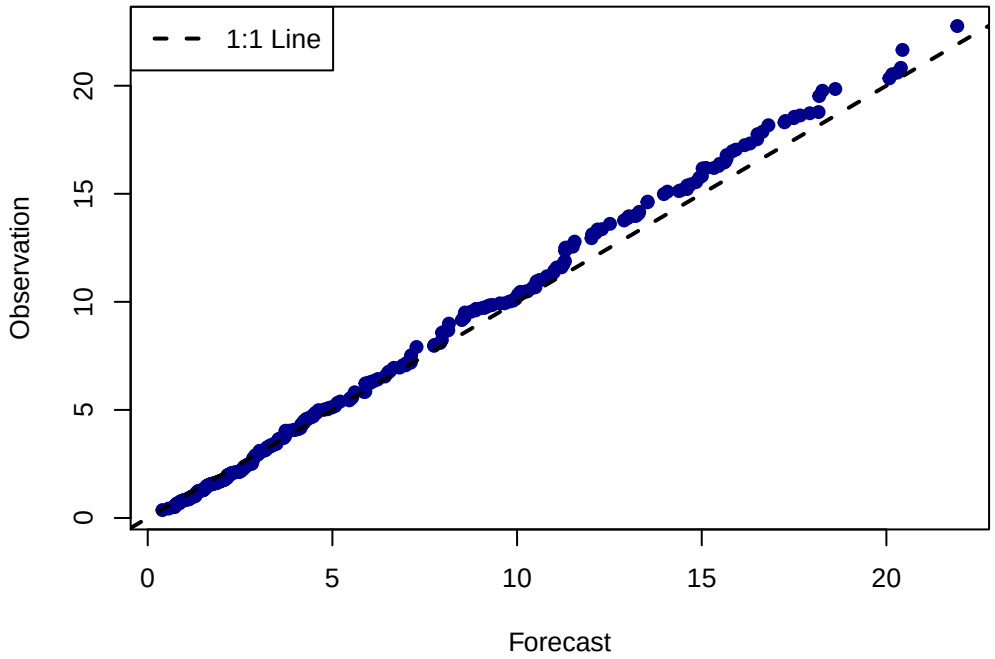


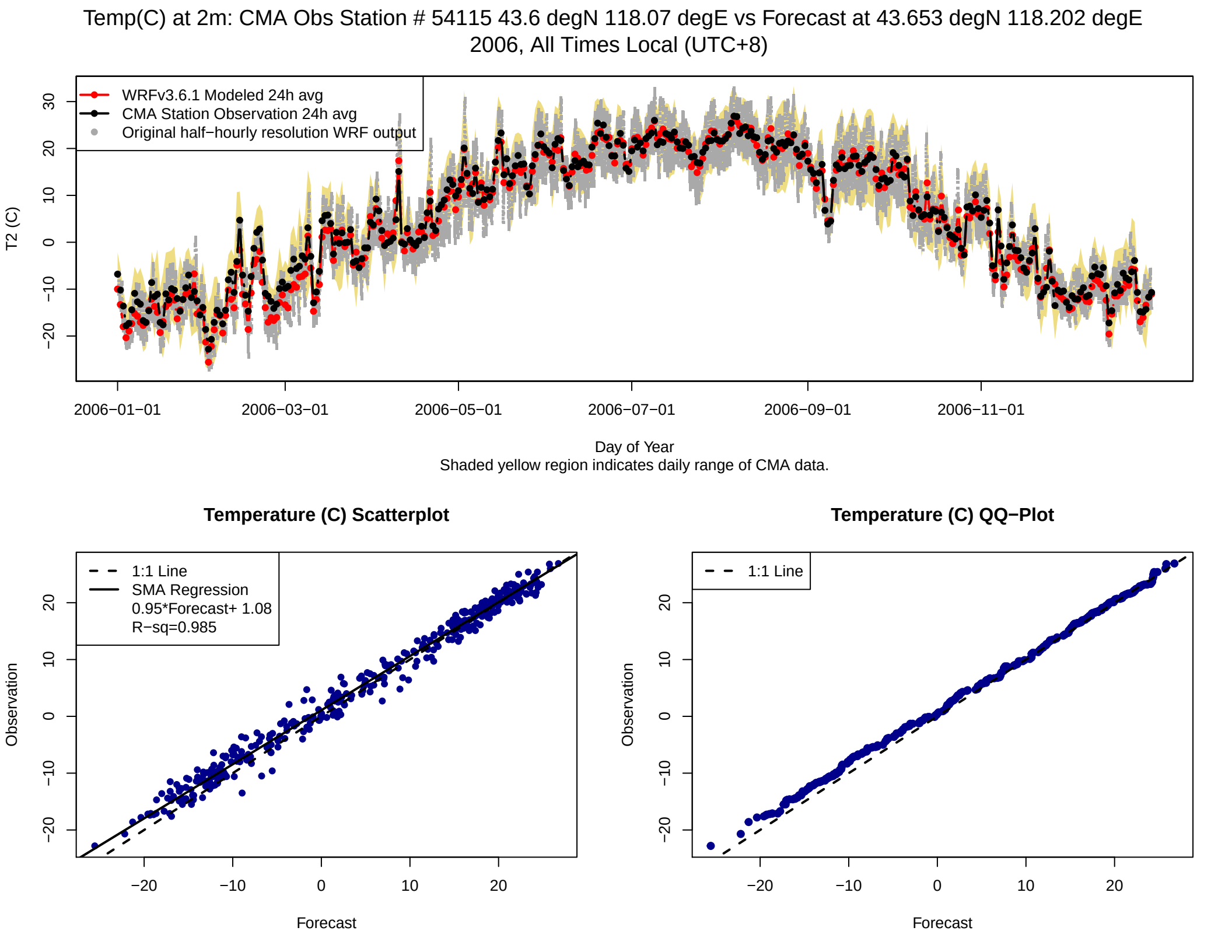
Shaded yellow region indicates daily range of CMA data. (No daily max available for SH)

Specific Humidity (mmol/mol) Scatterplot

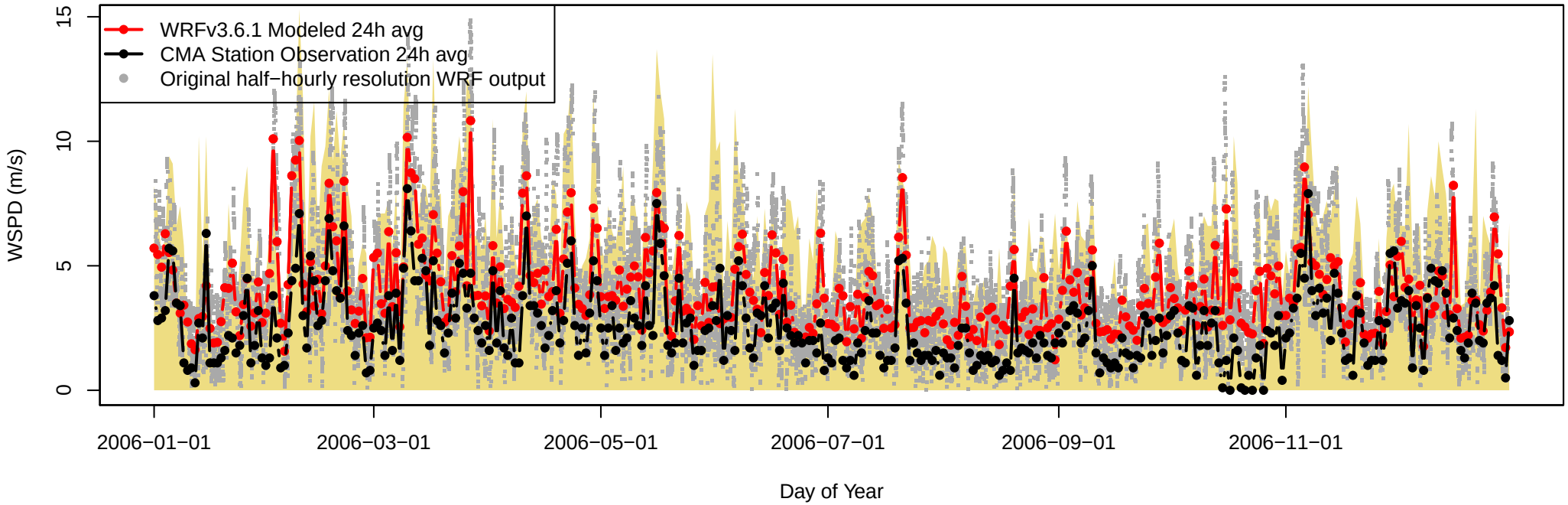


Specific Humidity (mmol/mol) QQ−Plot



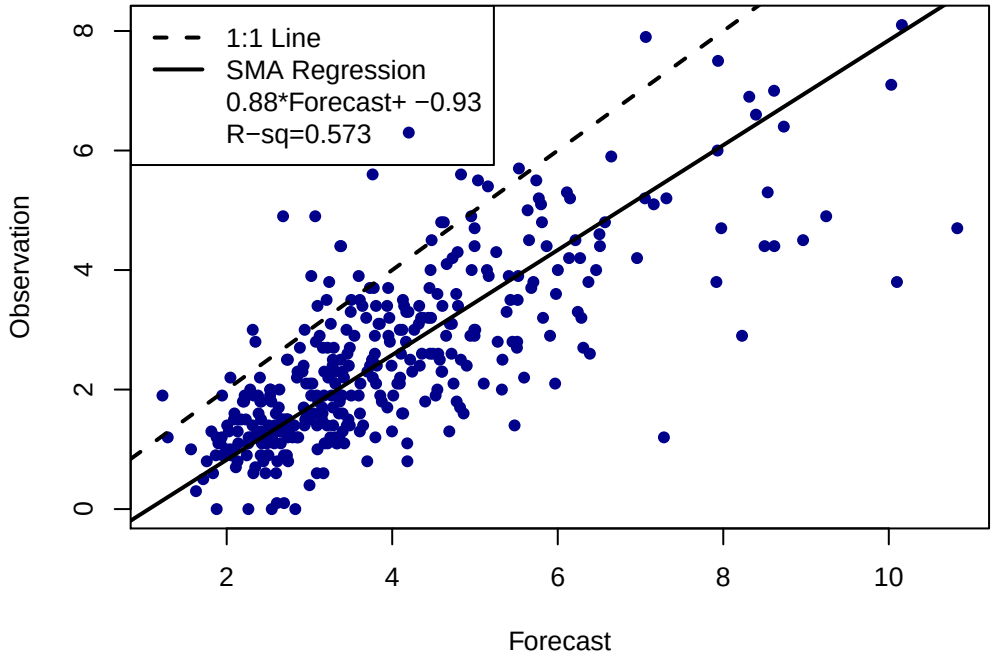

Temp(C) at 2m: CMA Obs Station # 54115 43.6 degN 118.07 degE vs Forecast at 43.653 degN 118.202 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
T2 (C)
30
20
10
0
−10
−20
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data.
Temperature (C) Scatterplot
1:1 Line
SMA Regression
0.95*Forecast+ 1.08
R−sq=0.985
Observation
Forecast
−20
−10
0
10
20
Temperature (C) QQ−Plot
1:1 Line
Observation
Forecast

Wind Speed (m/s) at 10m: CMA Obs Station # 54115 43.6 degN 118.07 degE vs Forecast at 43.653 degN 118.202 degE
2006, All Times Local (UTC+8)

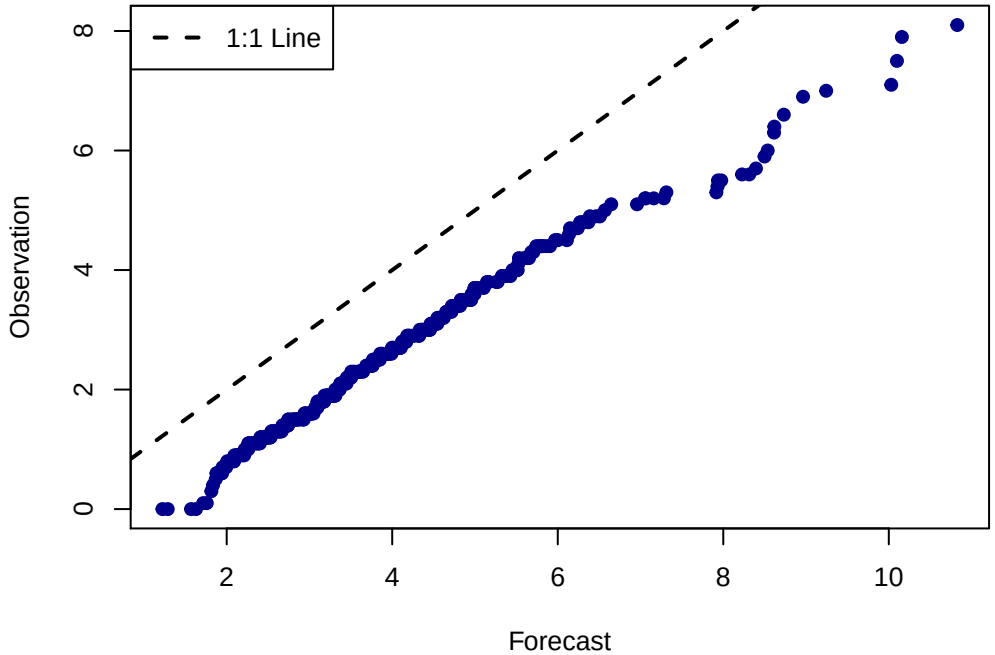


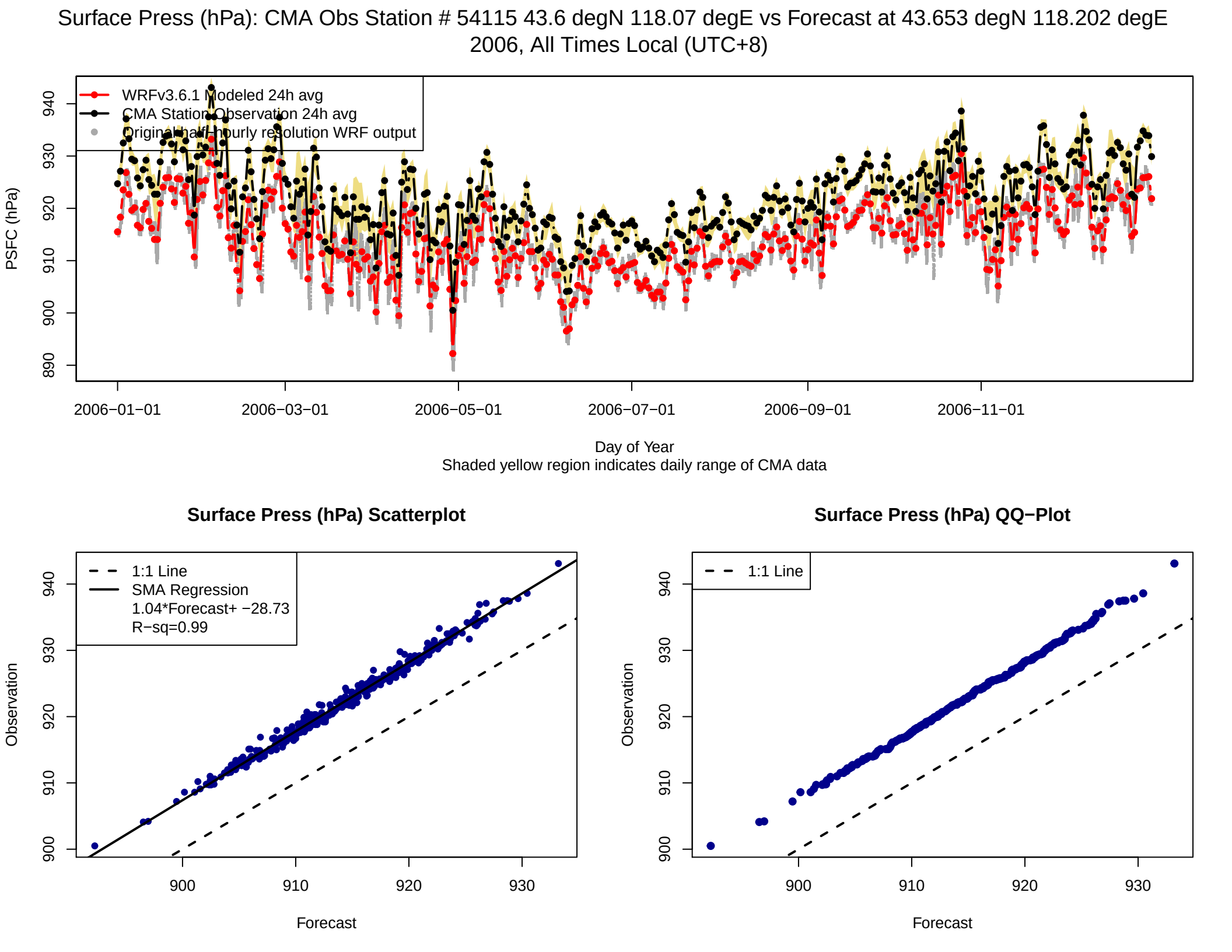
Shaded yellow region indicates daily range of CMA data. Min daily WSPD unavailable but assumed (and set at) 0.

Wind Speed (m/s) Scatterplot



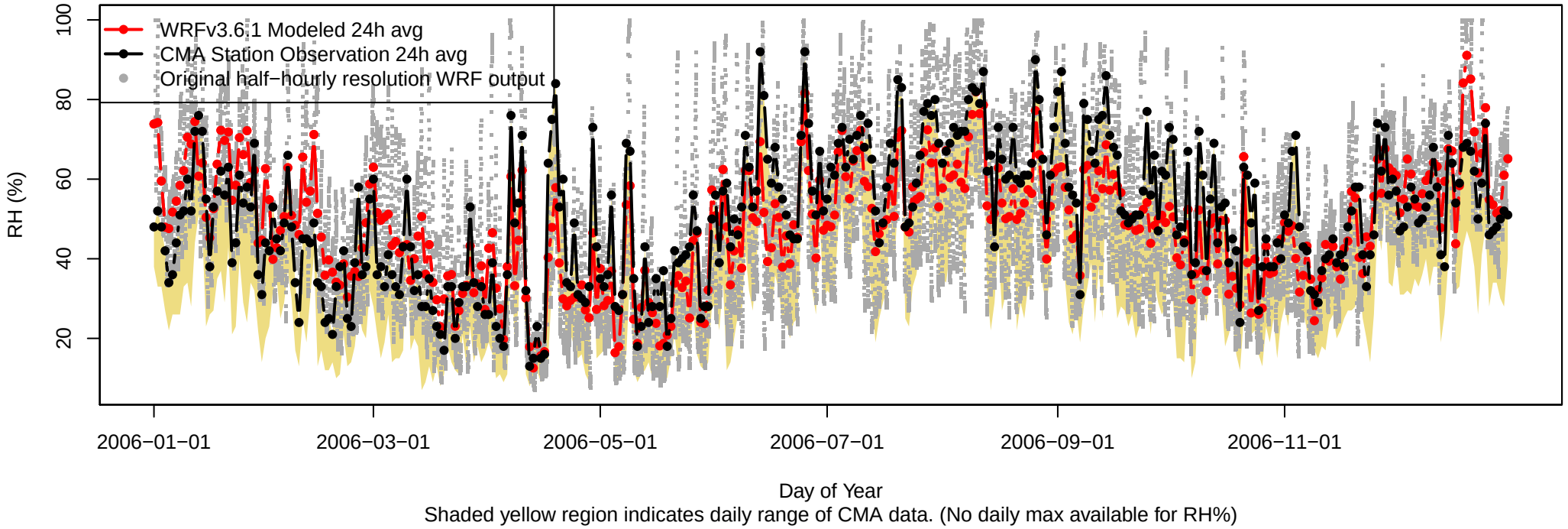
Wind Speed (m/s) QQ−Plot




Surface Press (hPa): CMA Obs Station # 54115 43.6 degN 118.07 degE vs Forecast at 43.653 degN 118.202 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half-hourly resolution WRF output
PSFC (hPa)
890
900
910
920
930
940
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data
Surface Press (hPa) Scatterplot
1:1 Line
SMA Regression
1.04*Forecast+ −28.73
R−sq=0.99
Observation
Forecast
Surface Press (hPa) QQ−Plot
1:1 Line
Observation
Forecast

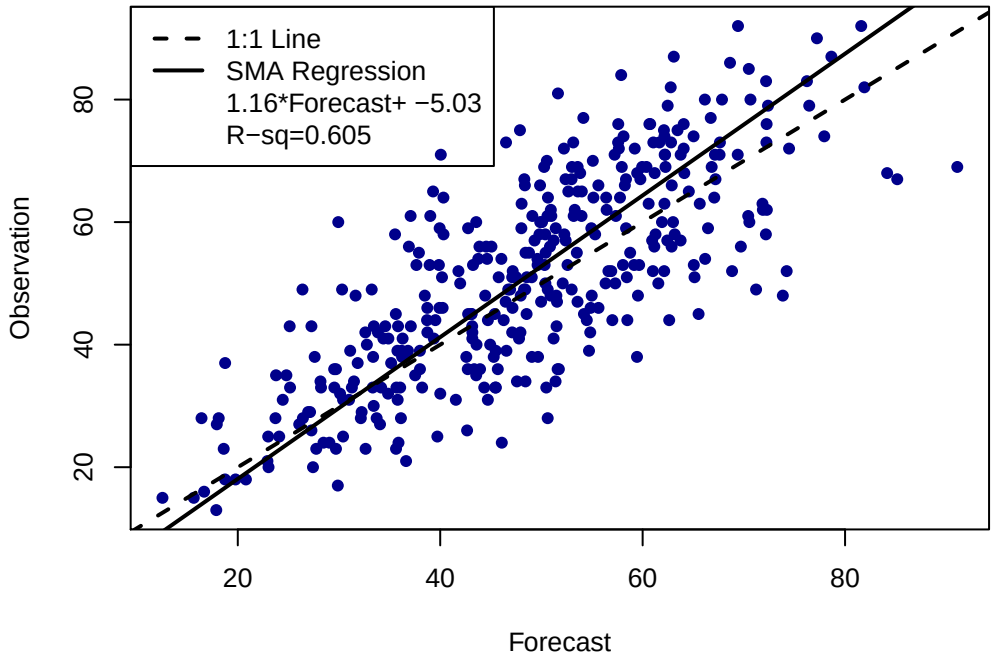
CMA Obs Station # 54135 43.6 degN 122.27 degE
vs Forecast at 43.672 degN 121.427 degE
2006, All Times Local (UTC+8)

Surface RH(%): CMA Obs Station # 54135 43.6 degN 122.27 degE vs 2m Forecast at 43.672 degN 121.427 degE
2006, All Times Local (UTC+8)

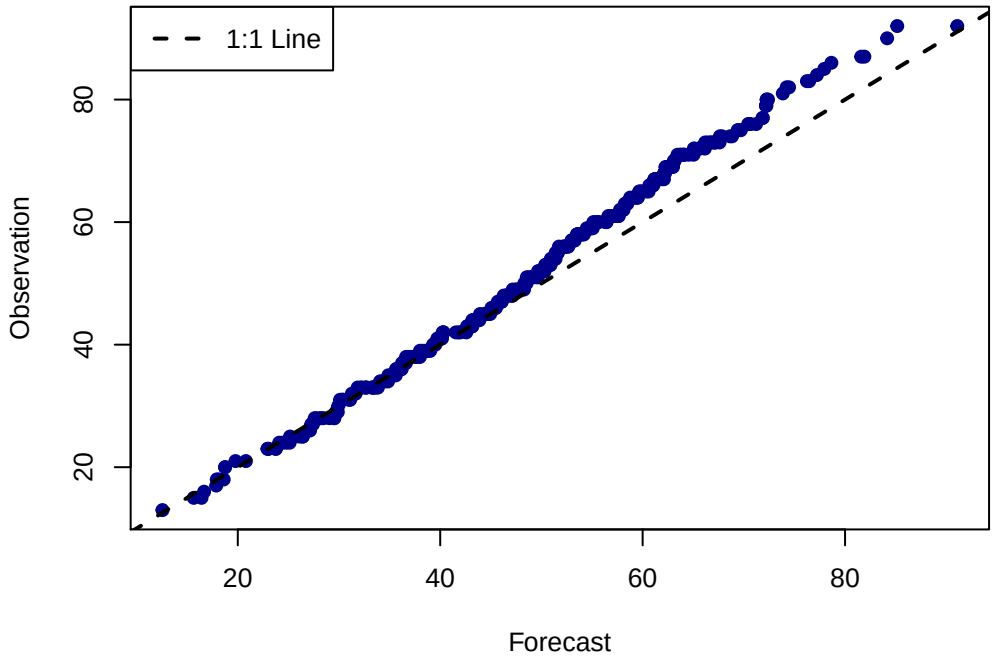


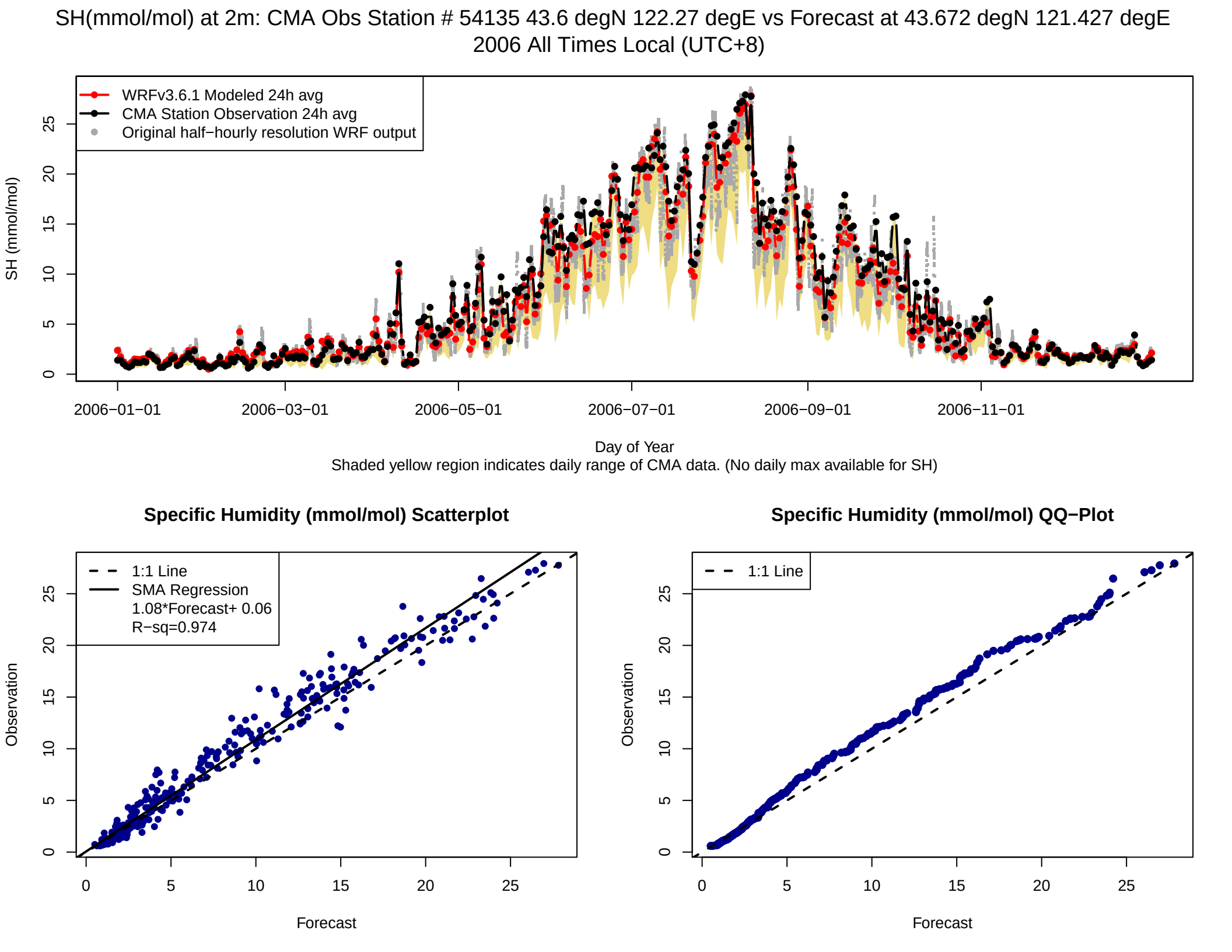
Shaded yellow region indicates daily range of CMA data. (No daily max available for RH%)

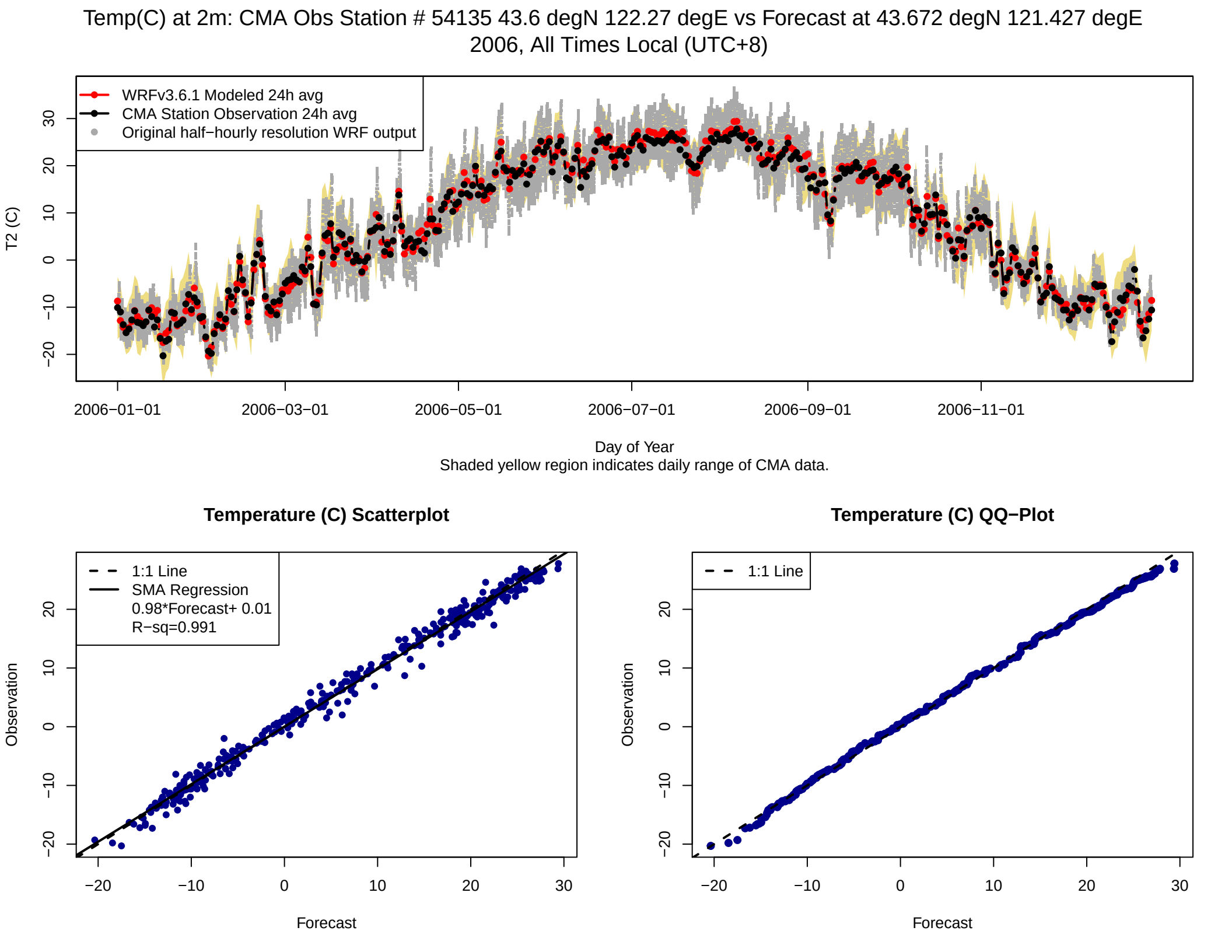
Relative Humidity (%) Scatterplot



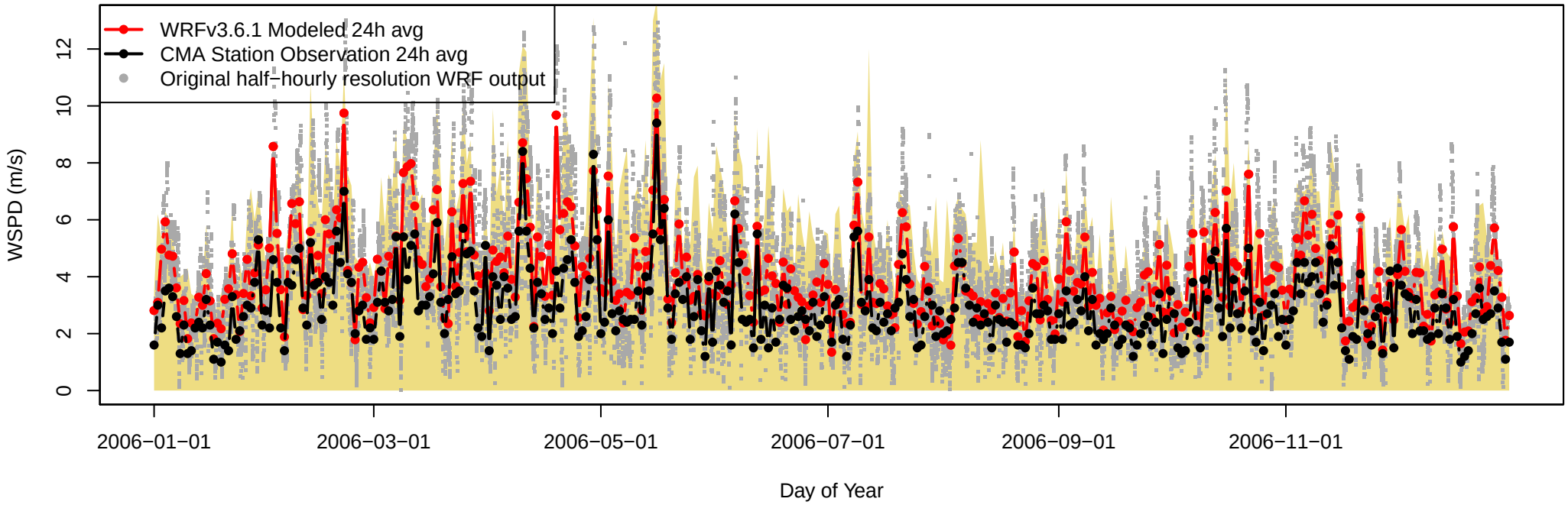
Relative Humidity (%) QQ−Plot




SH(mmol/mol) at 2m: CMA Obs Station # 54135 43.6 degN 122.27 degE vs Forecast at 43.672 degN 121.427 degE
2006 All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
SH (mmol/mol)
0
5
10
15
20
25
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data. (No daily max available for SH)
Specific Humidity (mmol/mol) Scatterplot
1:1 Line
SMA Regression
1.08*Forecast+ 0.06
R−sq=0.974
Observation
Forecast
Specific Humidity (mmol/mol) QQ−Plot
1:1 Line
Observation
Forecast

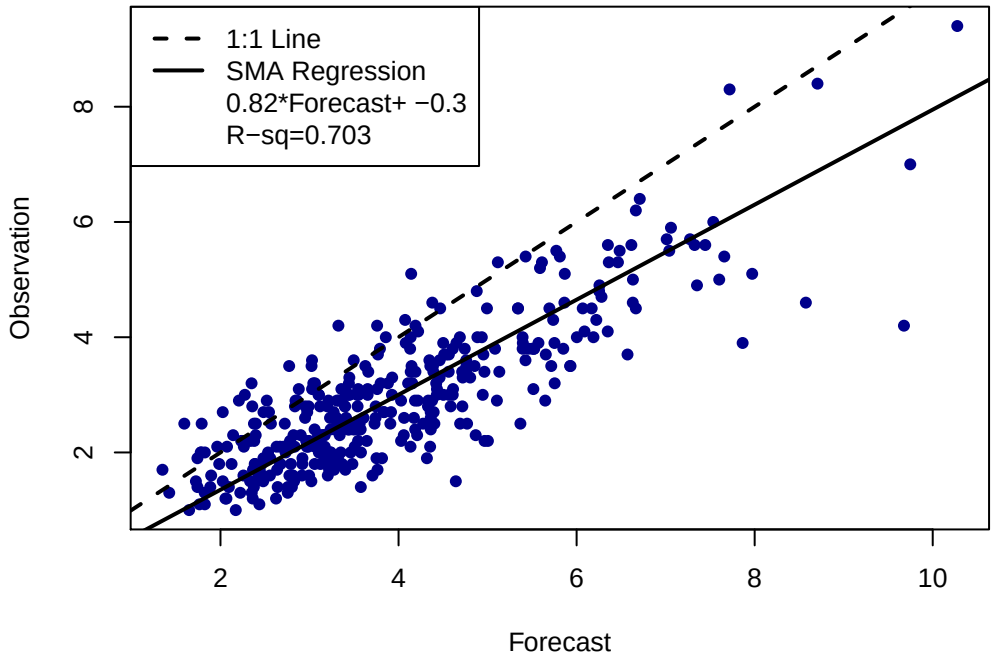

Temp(C) at 2m: CMA Obs Station # 54135 43.6 degN 122.27 degE vs Forecast at 43.672 degN 121.427 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
T2 (C)
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data.
Temperature (C) Scatterplot
1:1 Line
SMA Regression
0.98*Forecast+ 0.01
R−sq=0.991
Observation
Forecast
Temperature (C) QQ−Plot
1:1 Line
Observation
Forecast

Wind Speed (m/s) at 10m: CMA Obs Station # 54135 43.6 degN 122.27 degE vs Forecast at 43.672 degN 121.427 degE
2006, All Times Local (UTC+8)

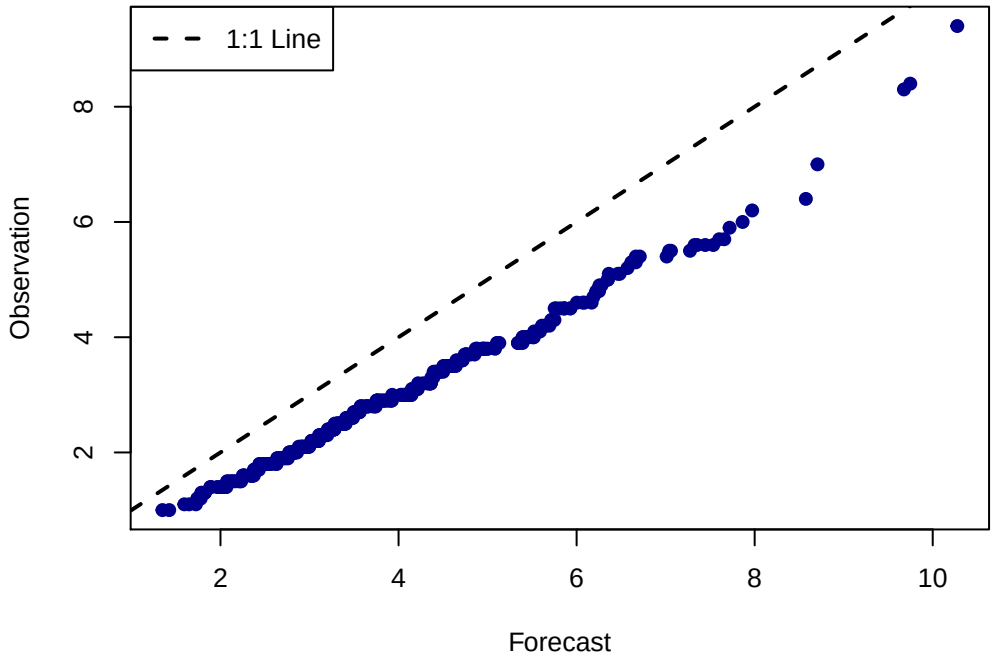


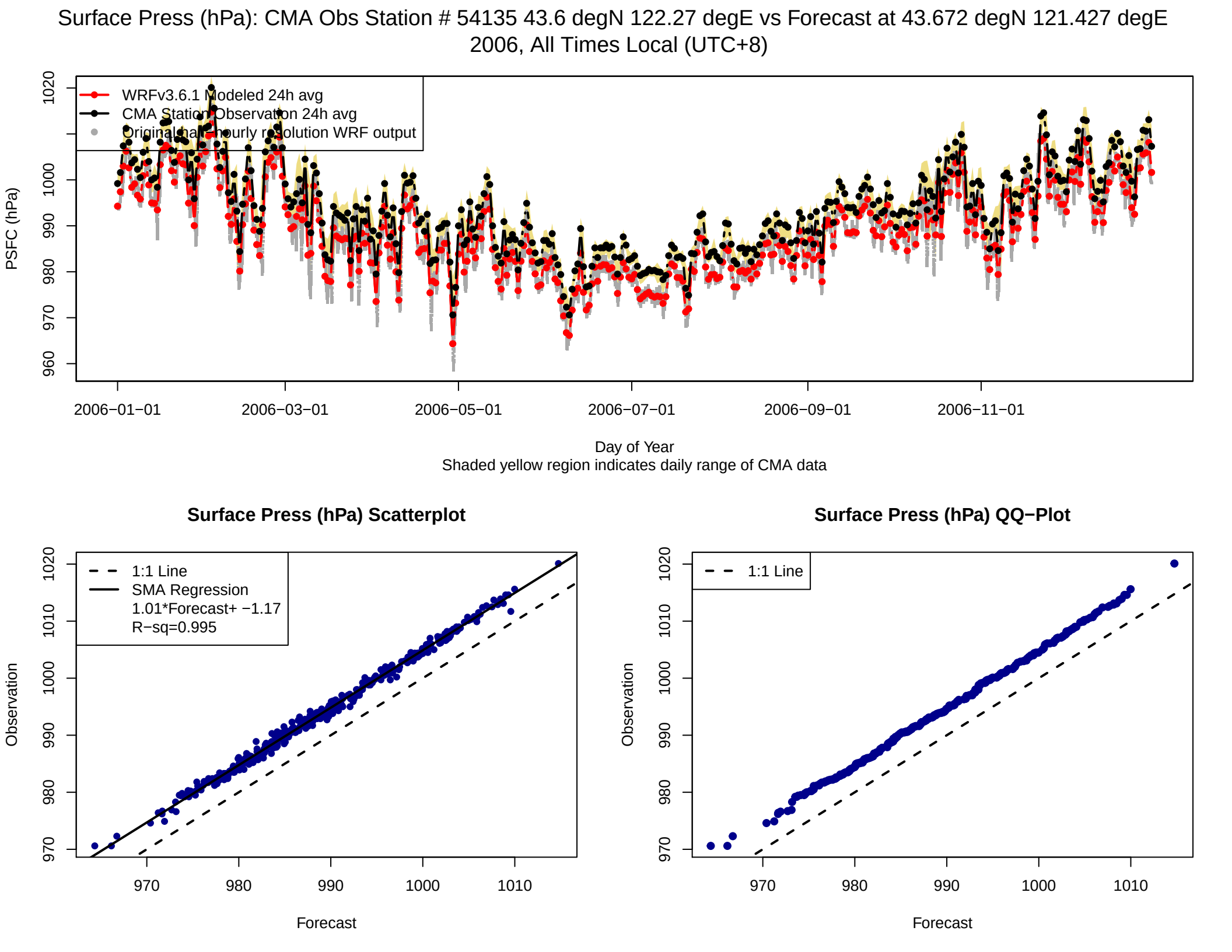
Shaded yellow region indicates daily range of CMA data. Min daily WSPD unavailable but assumed (and set at) 0.

Wind Speed (m/s) Scatterplot



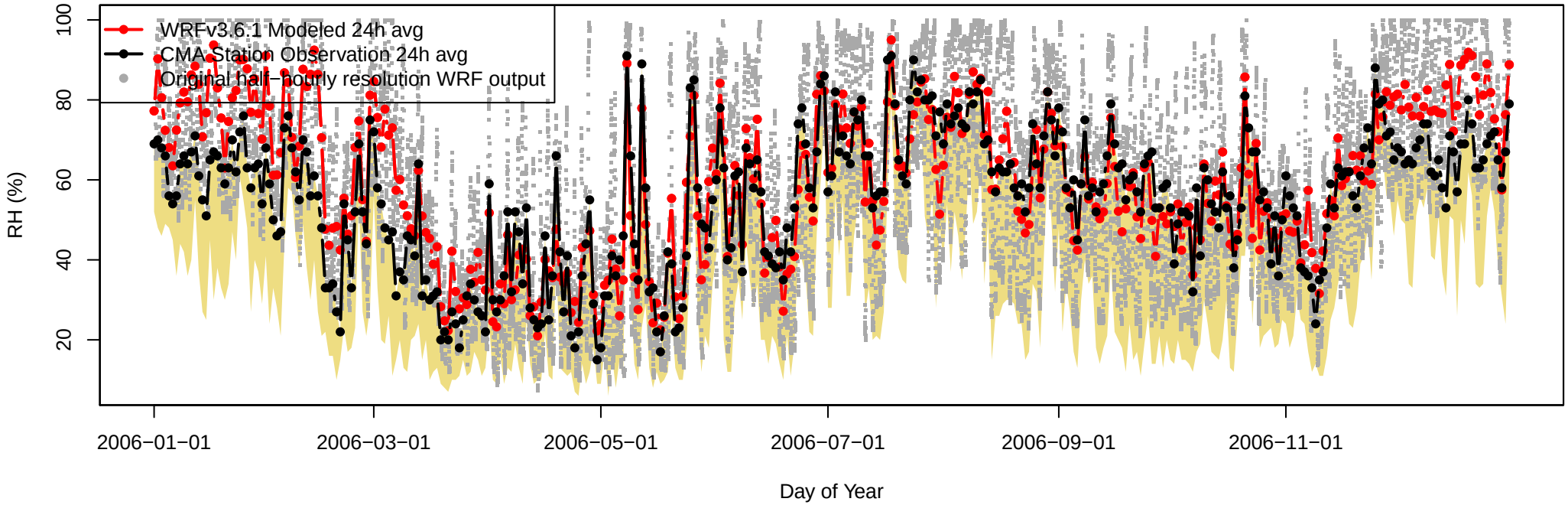
Wind Speed (m/s) QQ−Plot




Surface Press (hPa): CMA Obs Station # 54135 43.6 degN 122.27 degE vs Forecast at 43.672 degN 121.427 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half-hourly resolution WRF output
PSFC (hPa)
960
970
980
990
1000
1020
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data
Surface Press (hPa) Scatterplot
1:1 Line
SMA Regression
1.01*Forecast+ −1.17
R−sq=0.995
Observation
Forecast
970
980
990
1000
1010
1020
Surface Press (hPa) QQ−Plot
1:1 Line
Observation
Forecast

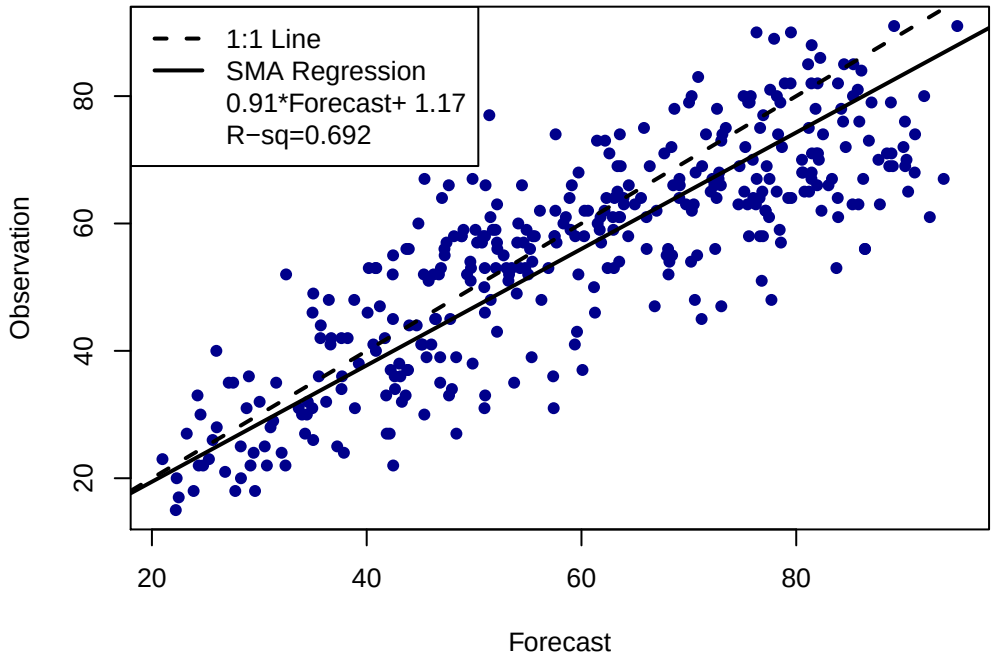
CMA Obs Station # 54208 42.18 degN 116.47 degE
vs Forecast at 42.289 degN 116.54 degE
2006, All Times Local (UTC+8)

Surface RH(%): CMA Obs Station # 54208 42.18 degN 116.47 degE vs 2m Forecast at 42.289 degN 116.54 degE
2006, All Times Local (UTC+8)

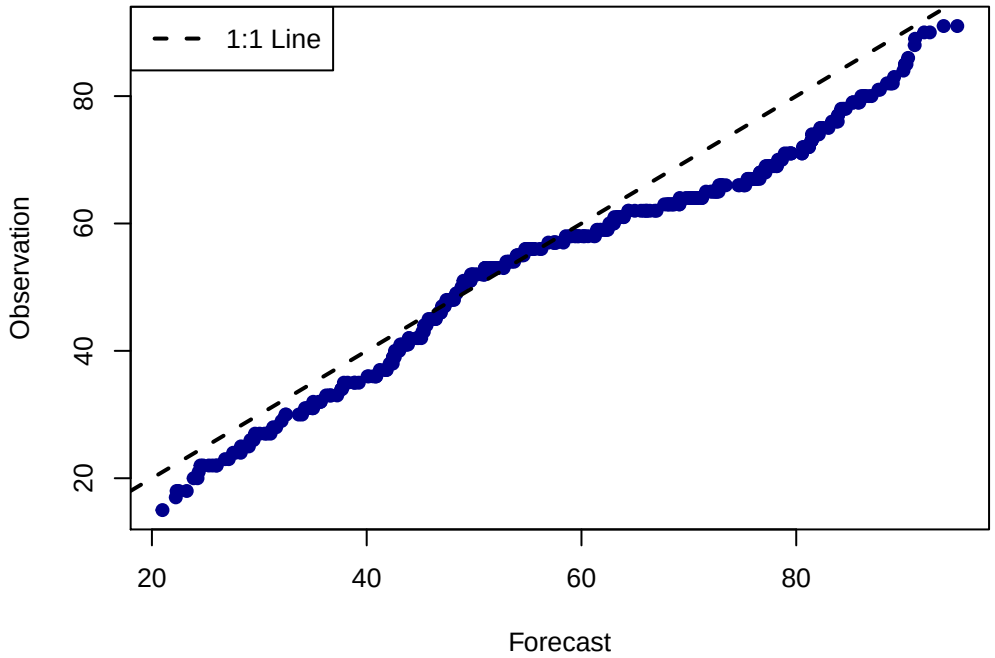


Shaded yellow region indicates daily range of CMA data. (No daily max available for RH%)

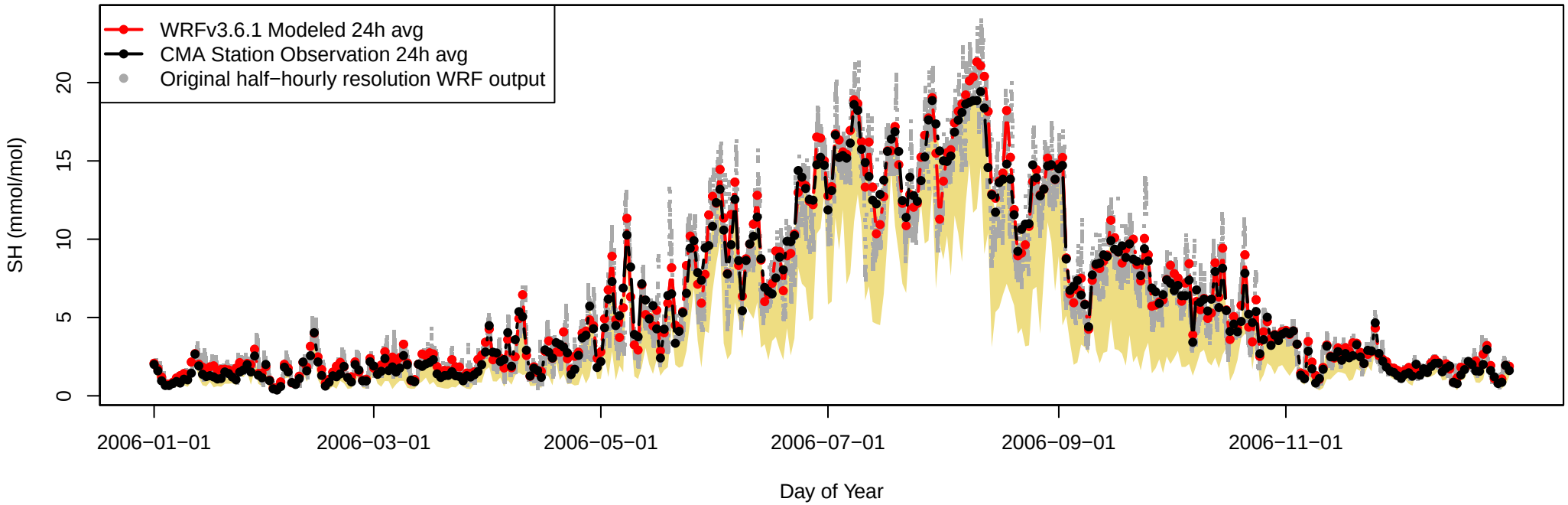
Relative Humidity (%) Scatterplot



Relative Humidity (%) QQ−Plot

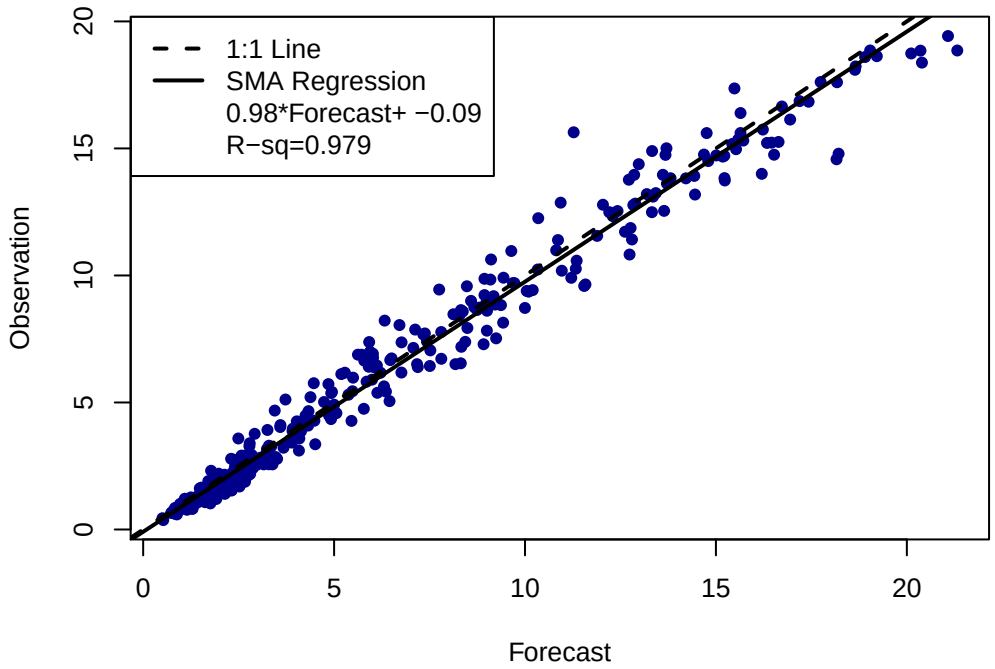


SH(mmol/mol) at 2m: CMA Obs Station # 54208 42.18 degN 116.47 degE vs Forecast at 42.289 degN 116.54 degE
2006 All Times Local (UTC+8)

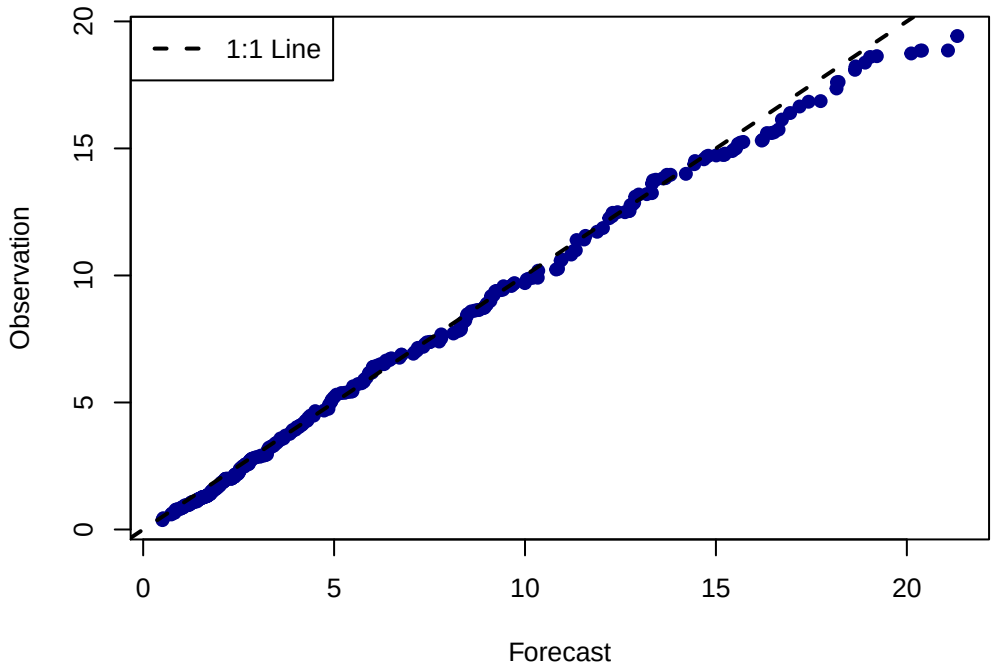


Shaded yellow region indicates daily range of CMA data. (No daily max available for SH)

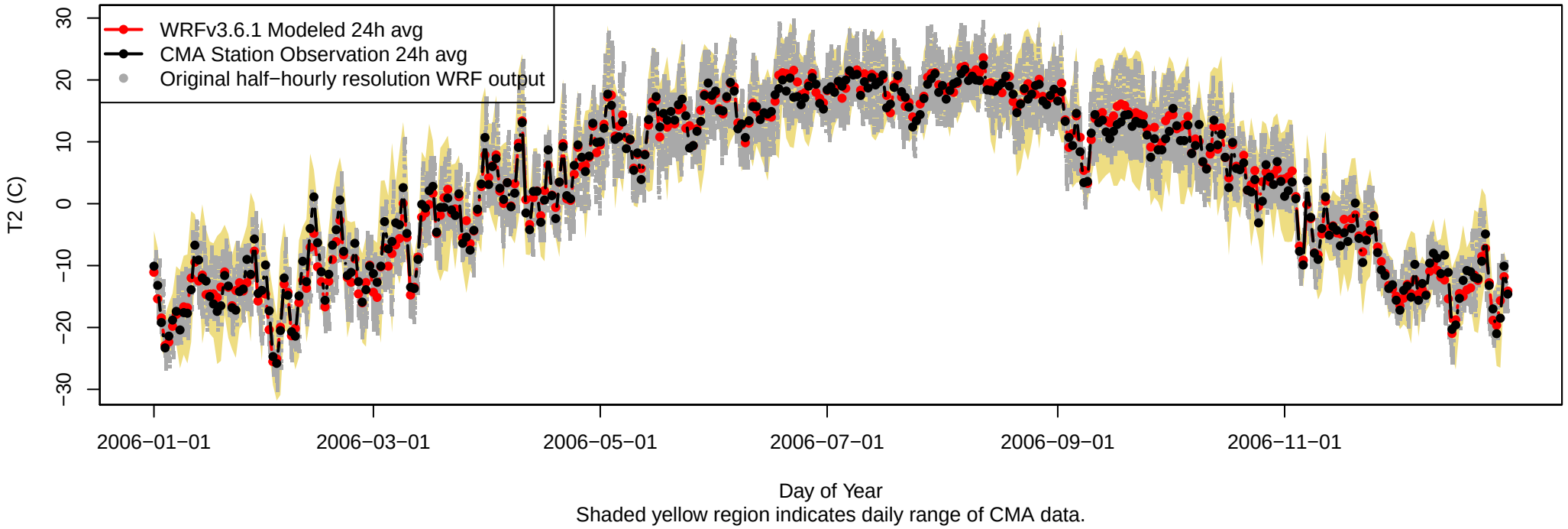
Specific Humidity (mmol/mol) Scatterplot



Specific Humidity (mmol/mol) QQ−Plot

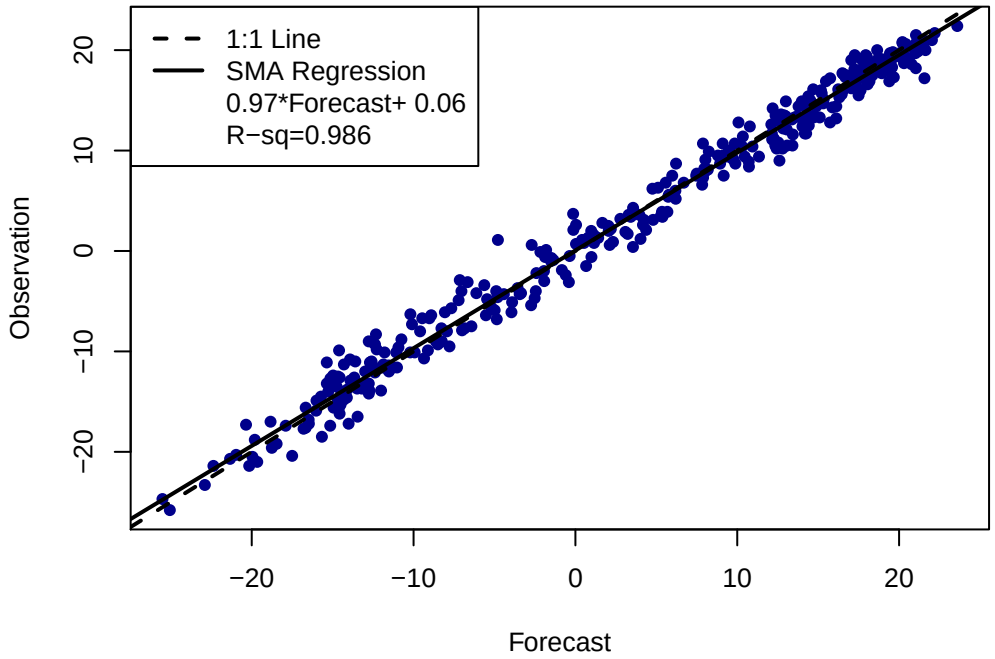


Temp(C) at 2m: CMA Obs Station # 54208 42.18 degN 116.47 degE vs Forecast at 42.289 degN 116.54 degE
2006, All Times Local (UTC+8)

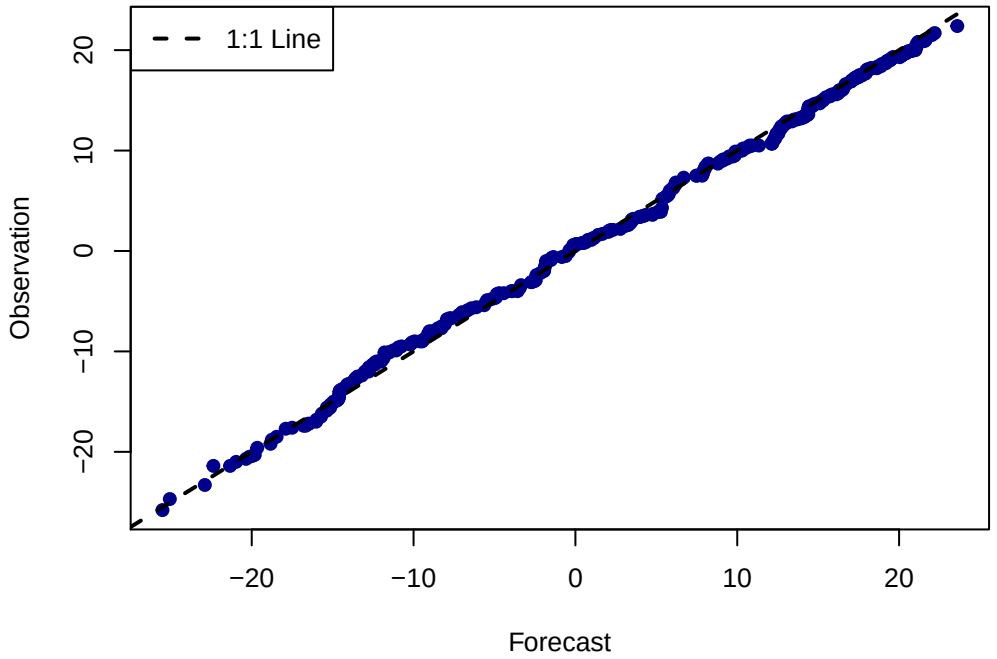


Shaded yellow region indicates daily range of CMA data.

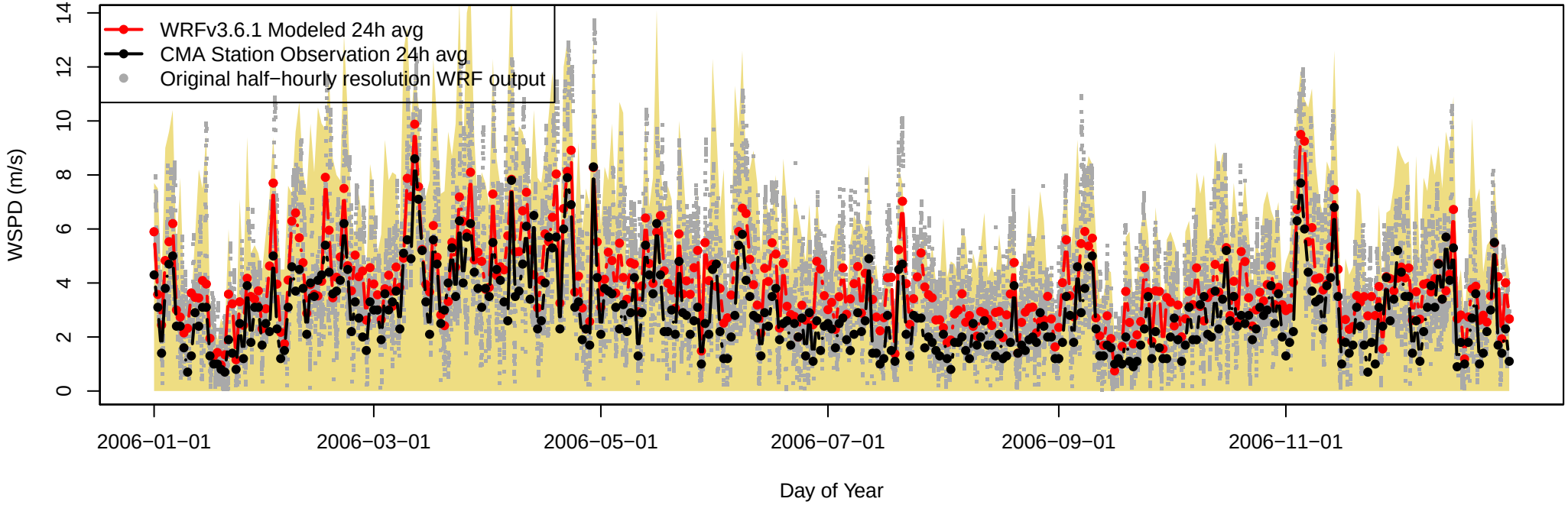
Temperature (C) Scatterplot



Temperature (C) QQ−Plot

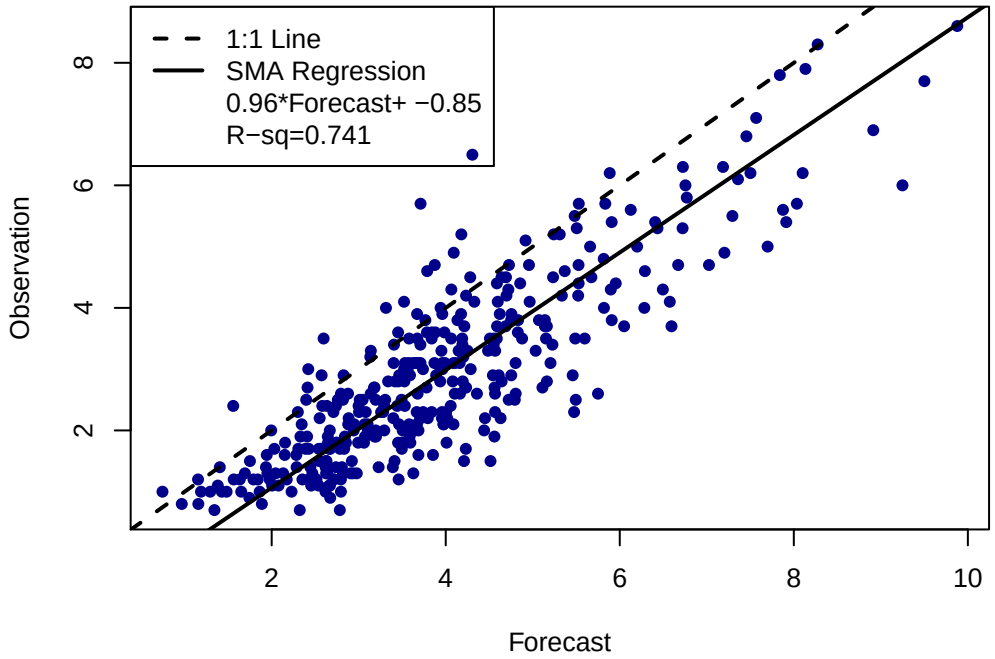


Wind Speed (m/s) at 10m: CMA Obs Station # 54208 42.18 degN 116.47 degE vs Forecast at 42.289 degN 116.54 degE
2006, All Times Local (UTC+8)

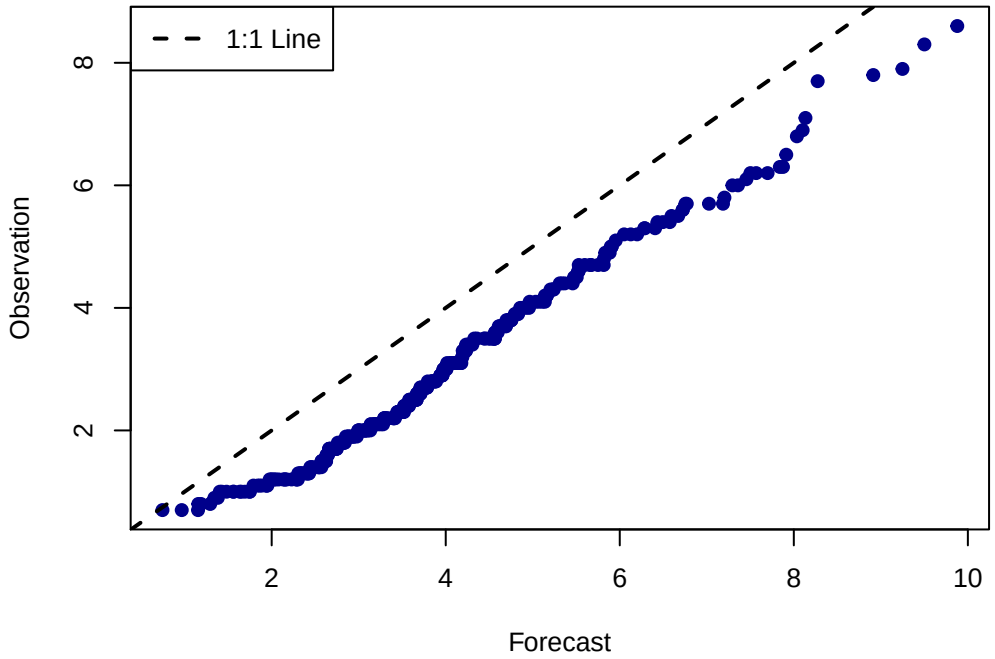


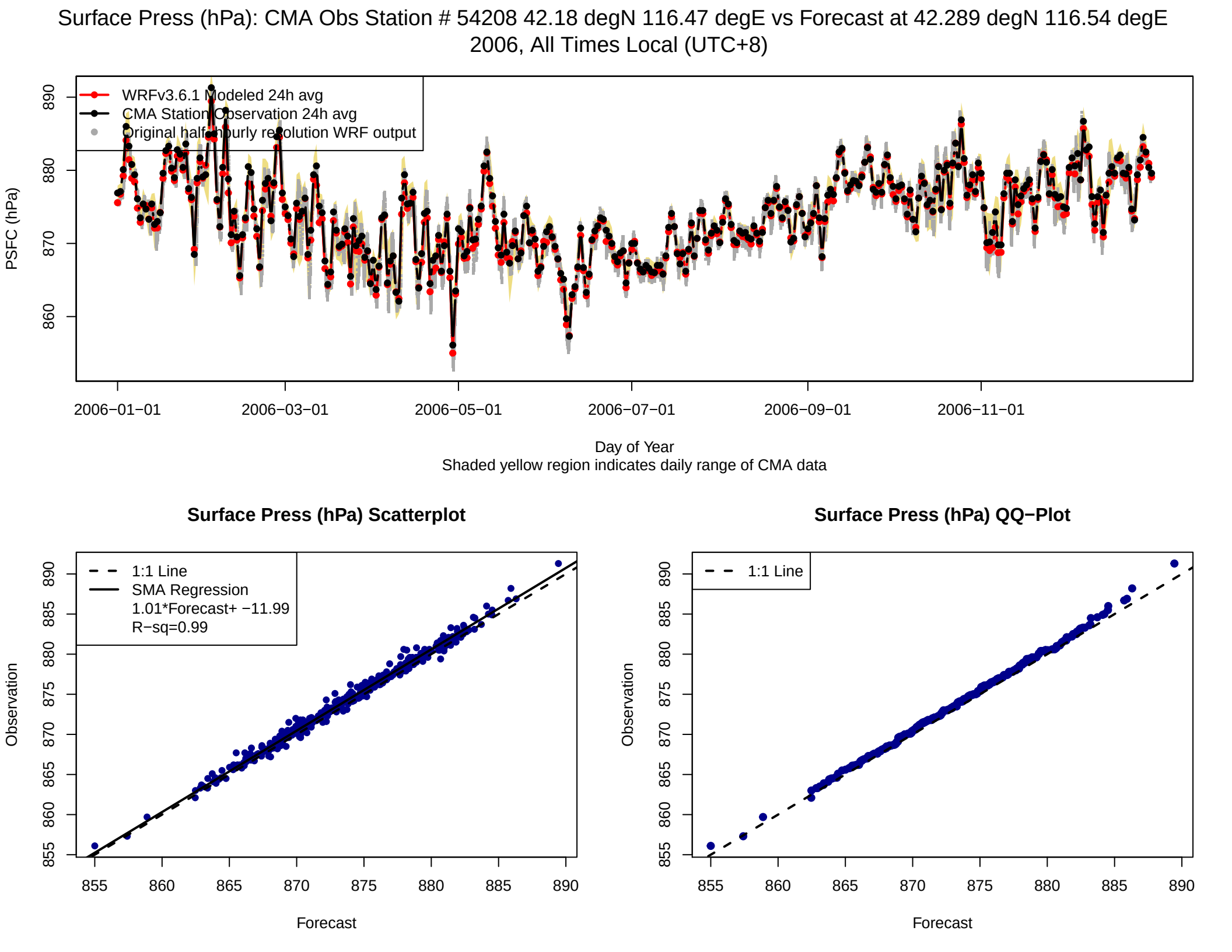
Shaded yellow region indicates daily range of CMA data. Min daily WSPD unavailable but assumed (and set at) 0.

Wind Speed (m/s) Scatterplot

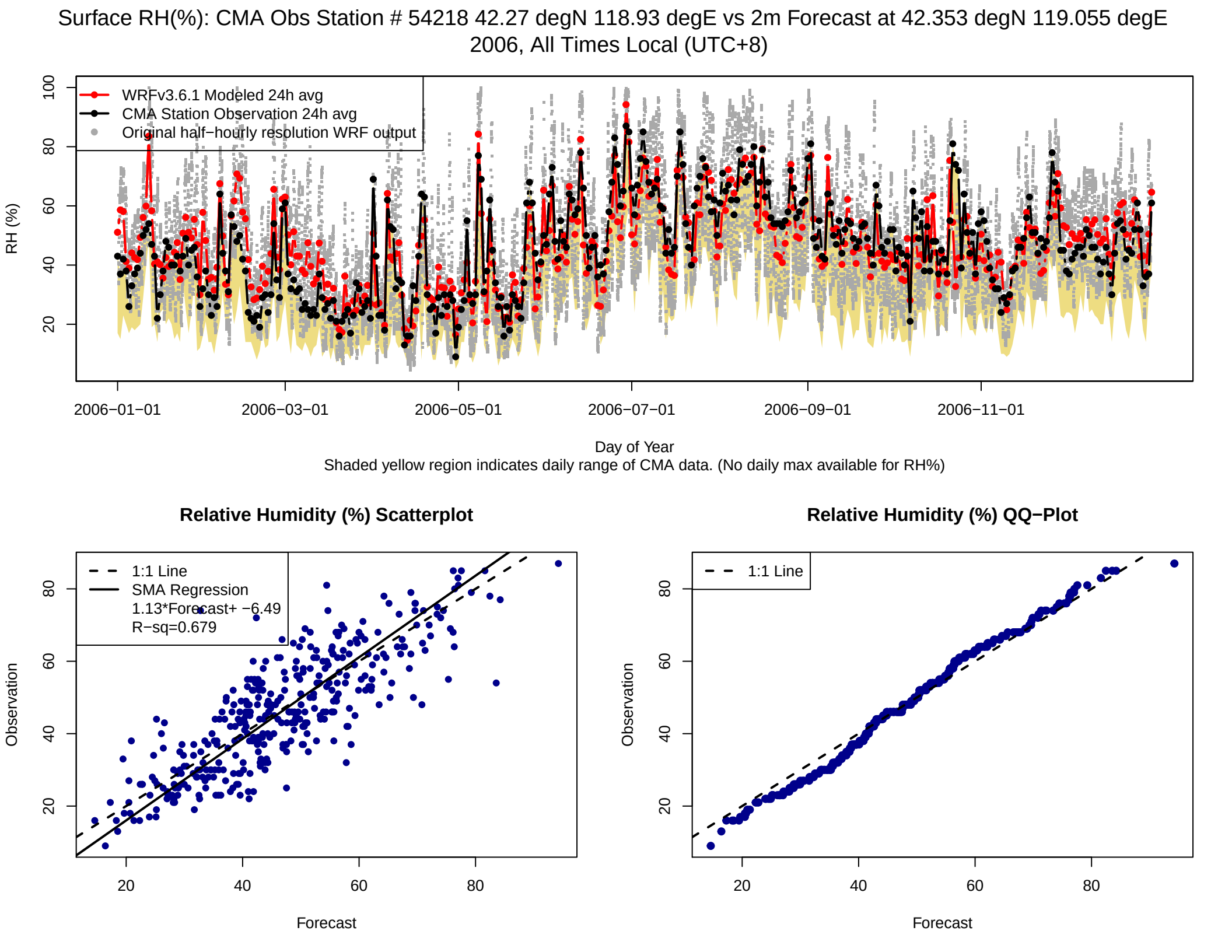


Wind Speed (m/s) QQ−Plot

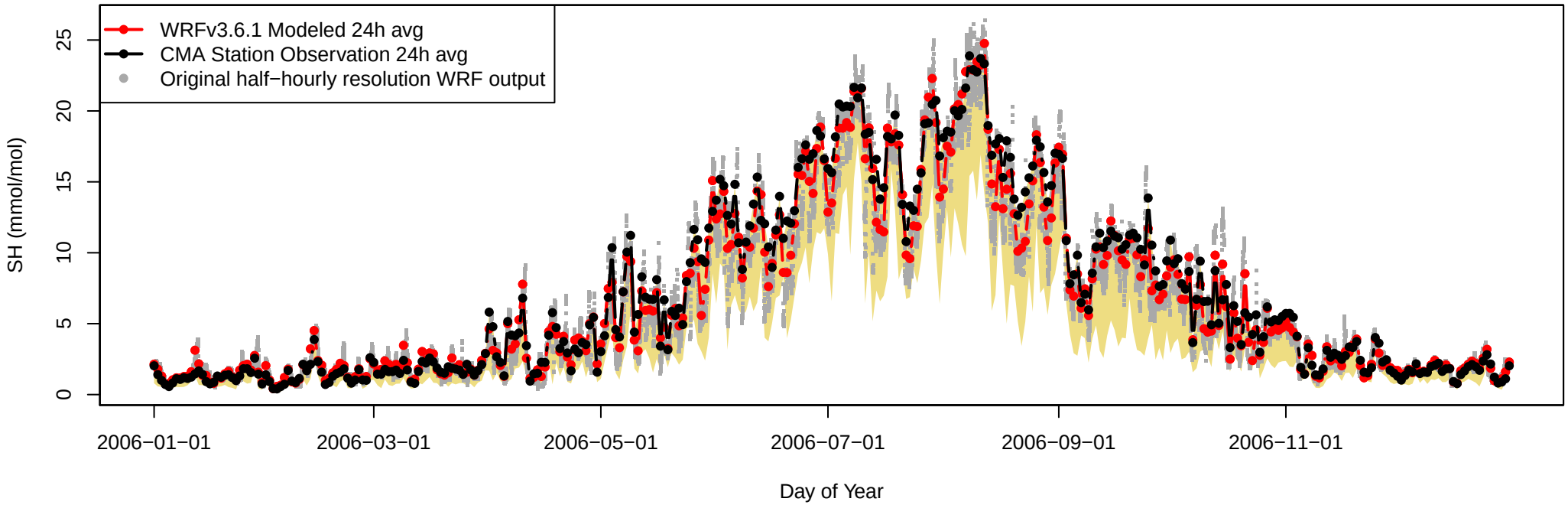



Surface Press (hPa): CMA Obs Station # 54208 42.18 degN 116.47 degE vs Forecast at 42.289 degN 116.54 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half-hourly resolution WRF output
PSFC (hPa)
890
880
870
860
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data
Surface Press (hPa) Scatterplot
1:1 Line
SMA Regression
1.01*Forecast+ −11.99
R−sq=0.99
Observation
Forecast
855
860
865
870
875
880
885
890
Surface Press (hPa) QQ−Plot
1:1 Line
Observation
Forecast

CMA Obs Station # 54218 42.27 degN 118.93 degE
vs Forecast at 42.353 degN 119.055 degE
2006, All Times Local (UTC+8)

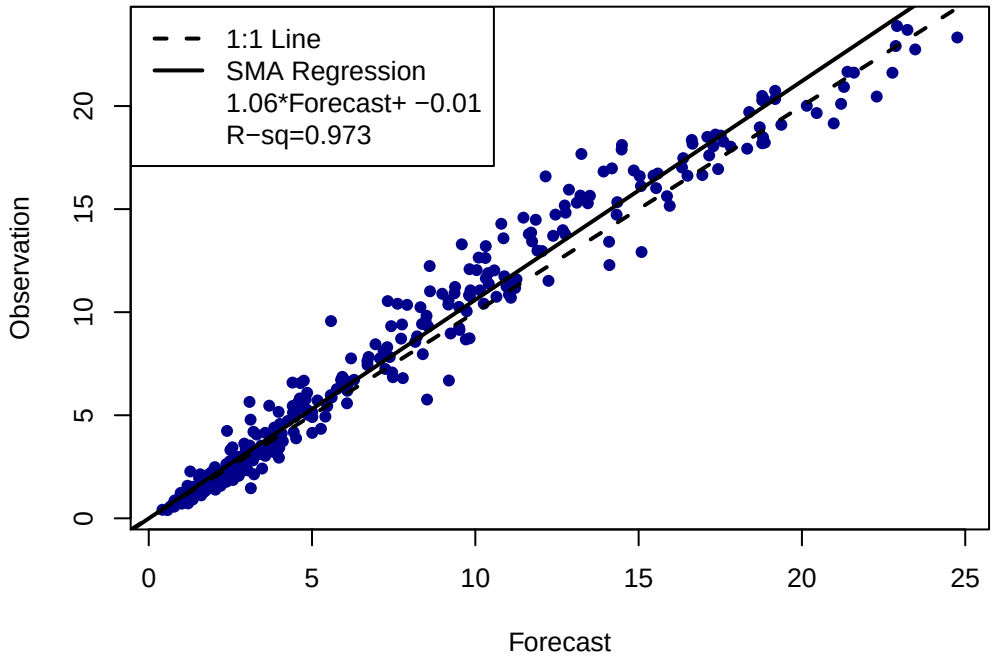

Surface RH(%): CMA Obs Station # 54218 42.27 degN 118.93 degE vs 2m Forecast at 42.353 degN 119.055 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
RH (%)
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data. (No daily max available for RH%)
Relative Humidity (%) Scatterplot
1:1 Line
SMA Regression
1.13*Forecast+ −6.49
R−sq=0.679
Observation
Forecast
Relative Humidity (%) QQ−Plot
1:1 Line
Observation
Forecast

SH(mmol/mol) at 2m: CMA Obs Station # 54218 42.27 degN 118.93 degE vs Forecast at 42.353 degN 119.055 degE
2006 All Times Local (UTC+8)

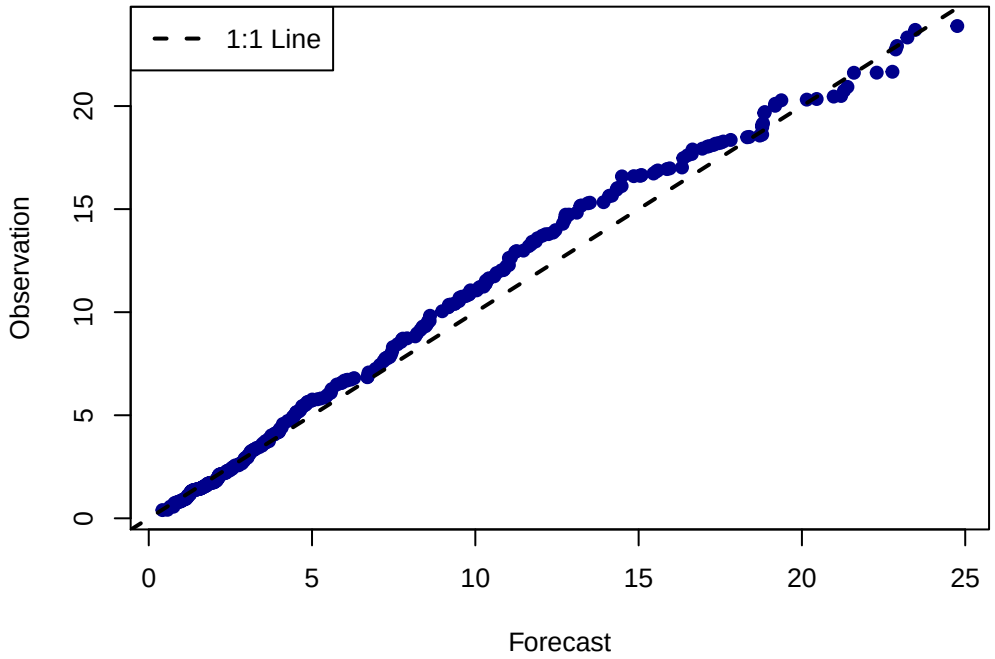


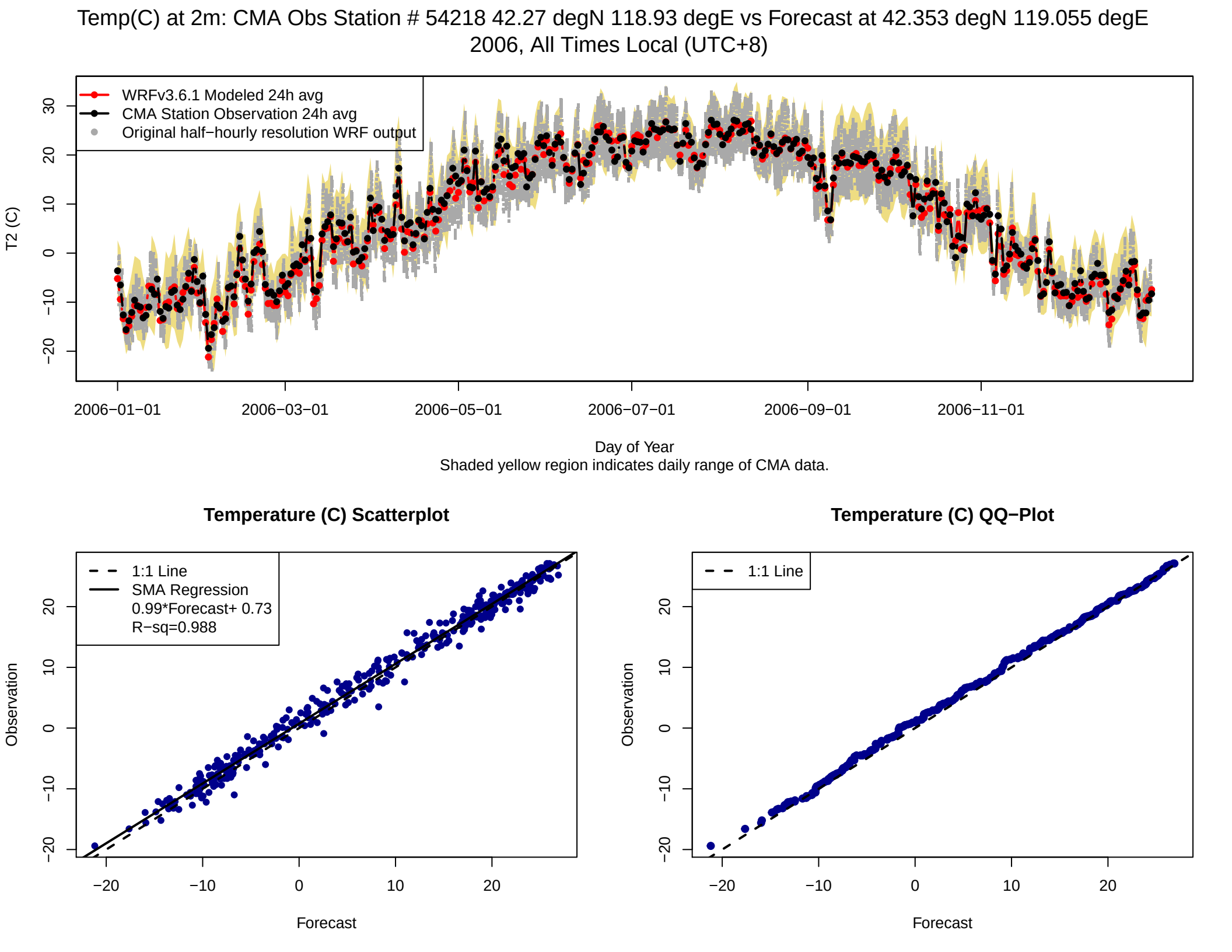
Shaded yellow region indicates daily range of CMA data. (No daily max available for SH)

Specific Humidity (mmol/mol) Scatterplot

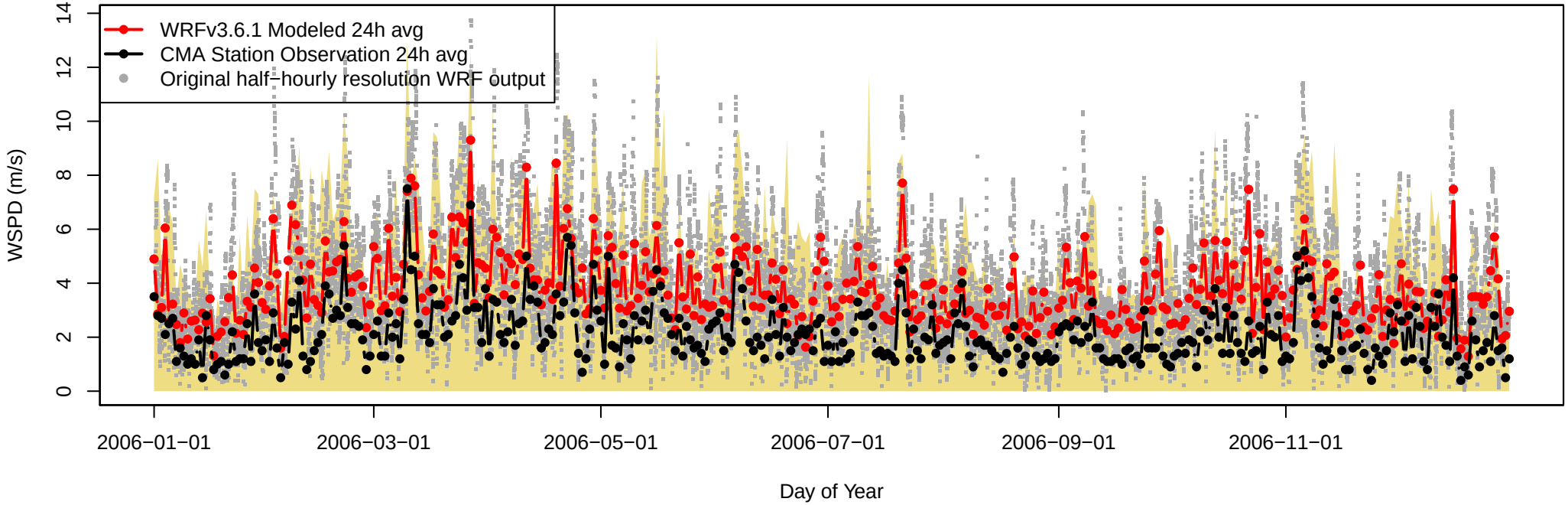


Specific Humidity (mmol/mol) QQ−Plot



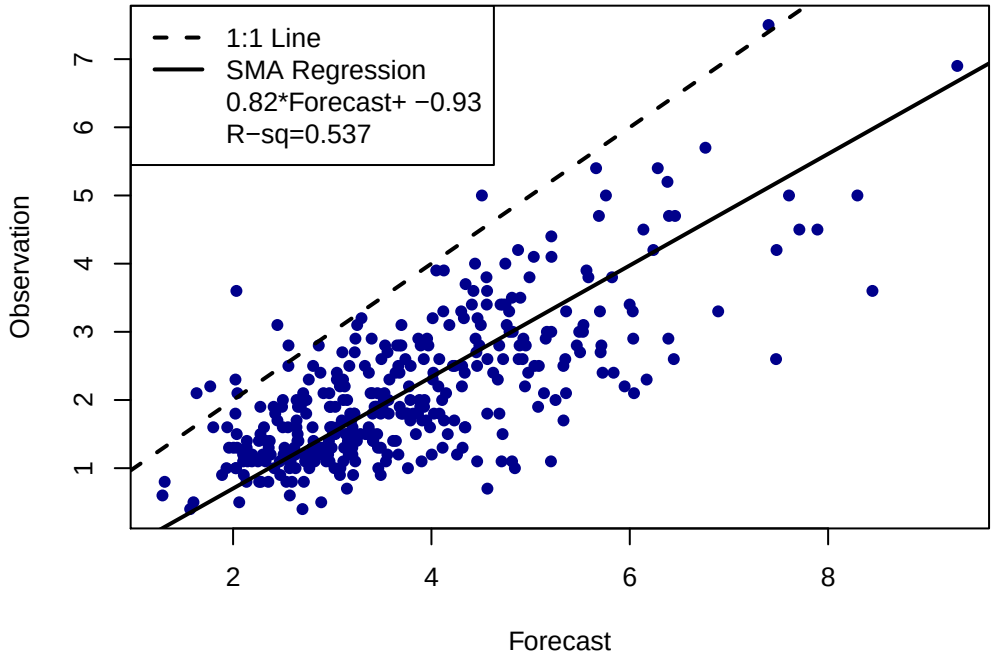

Temp(C) at 2m: CMA Obs Station # 54218 42.27 degN 118.93 degE vs Forecast at 42.353 degN 119.055 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
T2 (C)
30
20
10
0
−10
−20
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data.
Temperature (C) Scatterplot
1:1 Line
SMA Regression
0.99*Forecast+ 0.73
R−sq=0.988
Observation
Forecast
−20
−10
0
10
20
Temperature (C) QQ−Plot
1:1 Line
Observation
Forecast

Wind Speed (m/s) at 10m: CMA Obs Station # 54218 42.27 degN 118.93 degE vs Forecast at 42.353 degN 119.055 degE
2006, All Times Local (UTC+8)

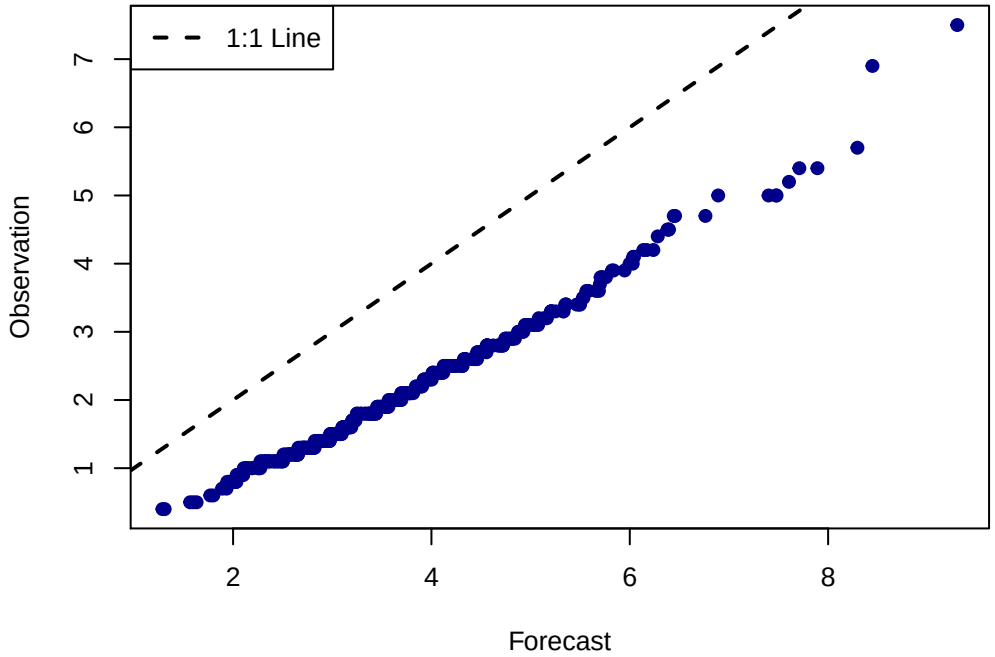


Shaded yellow region indicates daily range of CMA data. Min daily WSPD unavailable but assumed (and set at) 0.

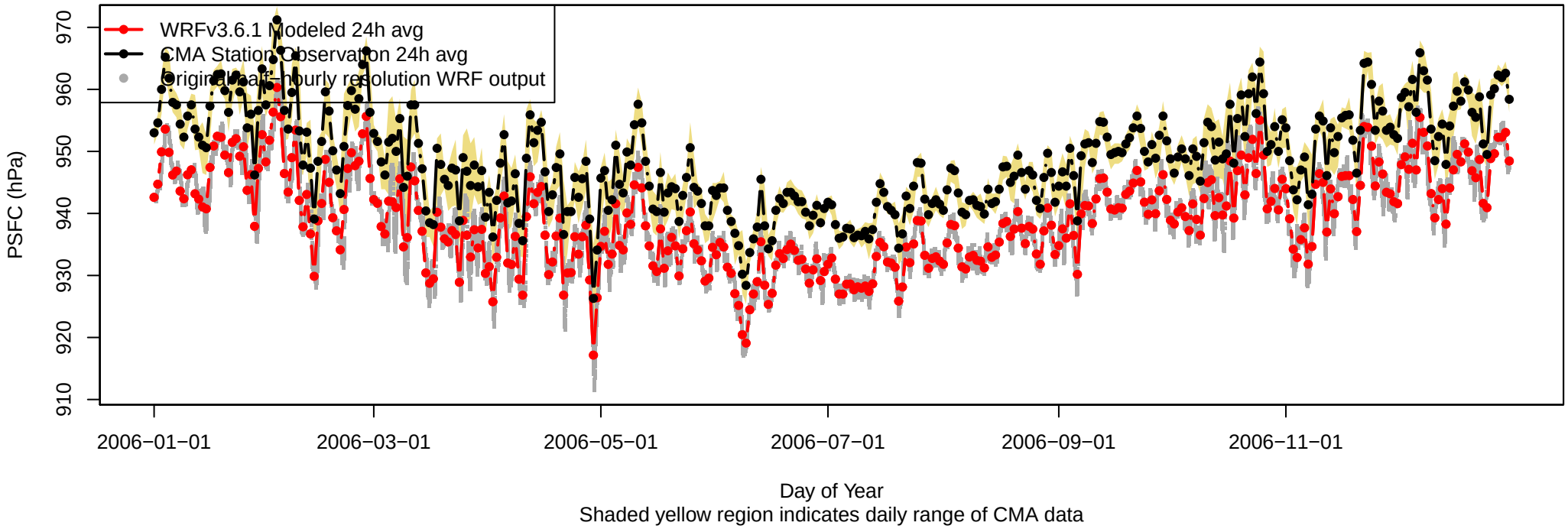
Wind Speed (m/s) Scatterplot

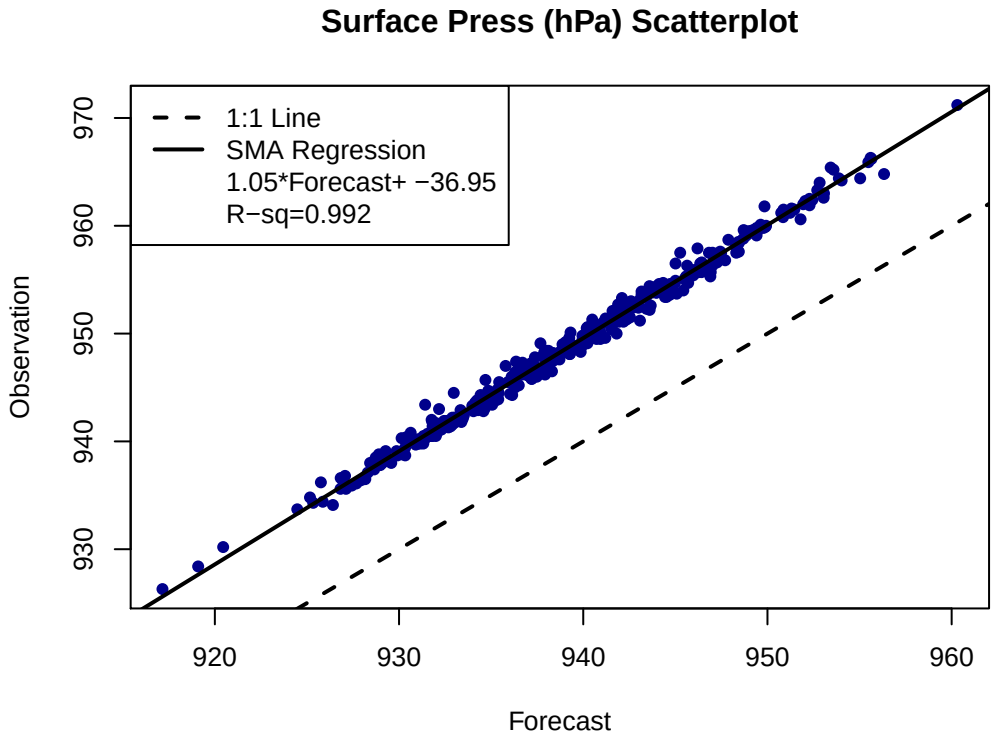


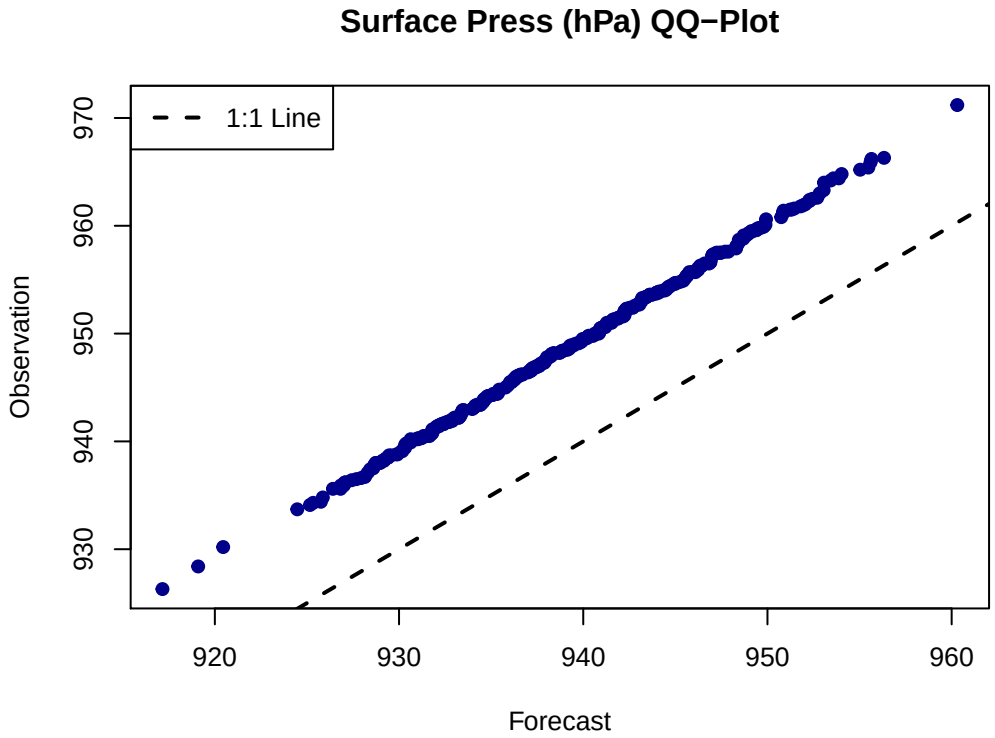
Wind Speed (m/s) QQ−Plot



Surface Press (hPa): CMA Obs Station # 54218 42.27 degN 118.93 degE vs Forecast at 42.353 degN 119.055 degE
2006, All Times Local (UTC+8)

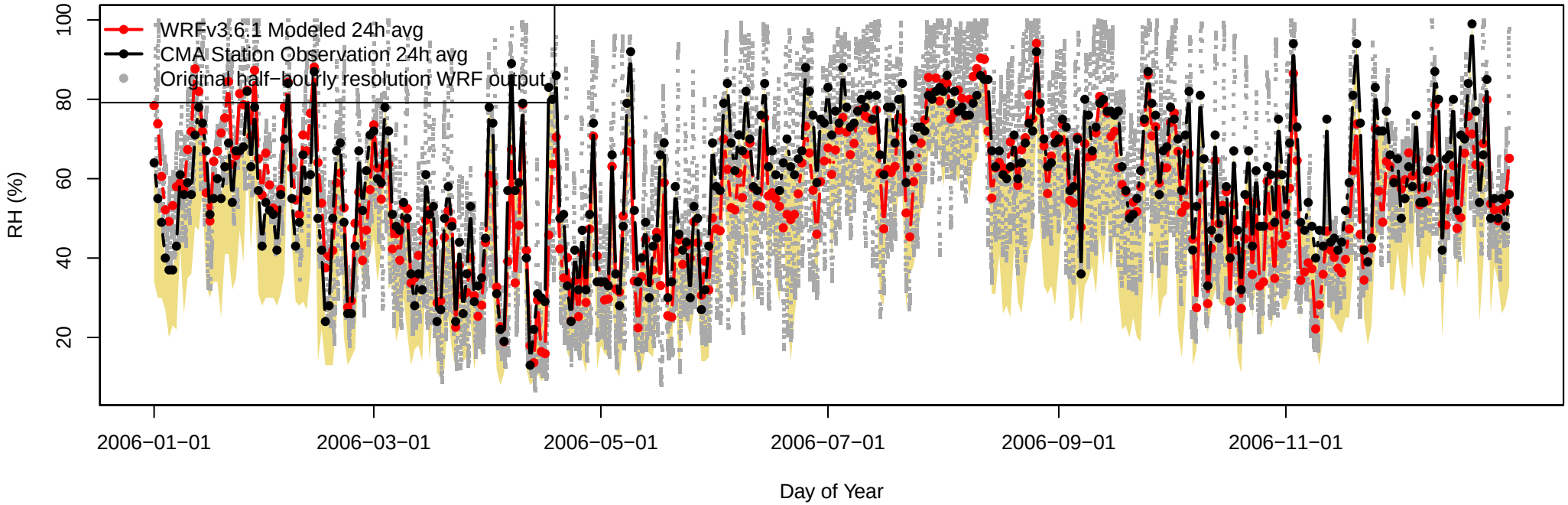






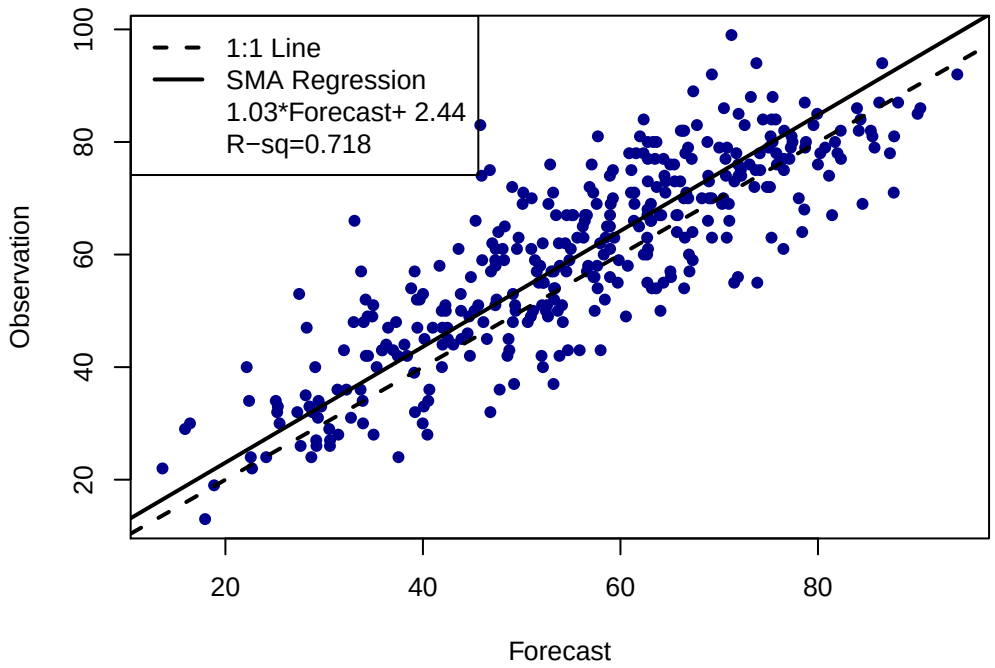
CMA Obs Station # 54236 42.42 degN 122.53 degE
vs Forecast at 42.5 degN 122.678 degE
2006, All Times Local (UTC+8)

Surface RH(%): CMA Obs Station # 54236 42.42 degN 122.53 degE vs 2m Forecast at 42.5 degN 122.678 degE
2006, All Times Local (UTC+8)

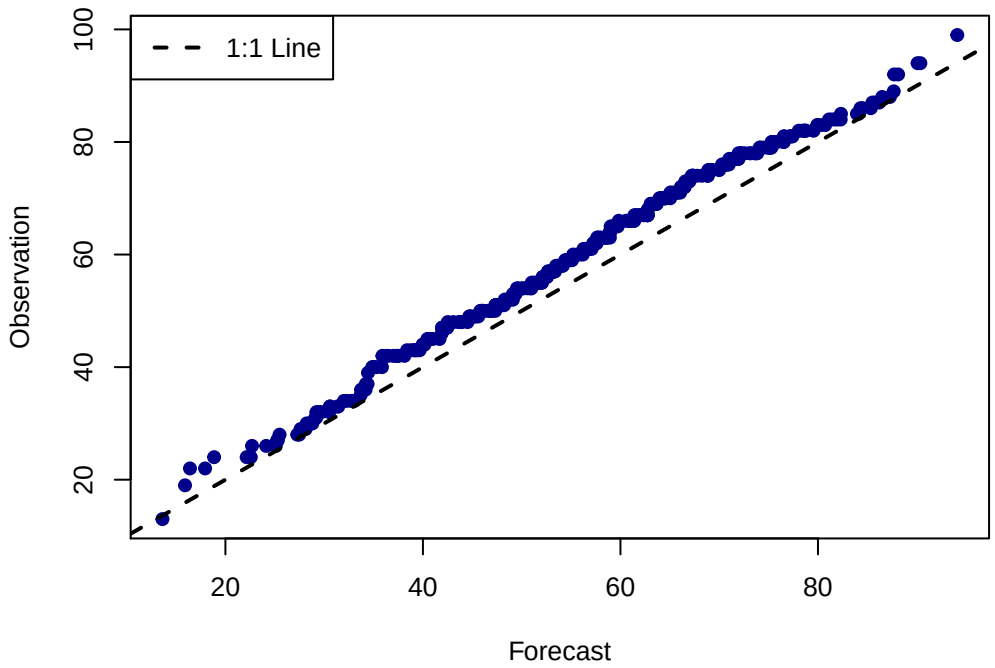


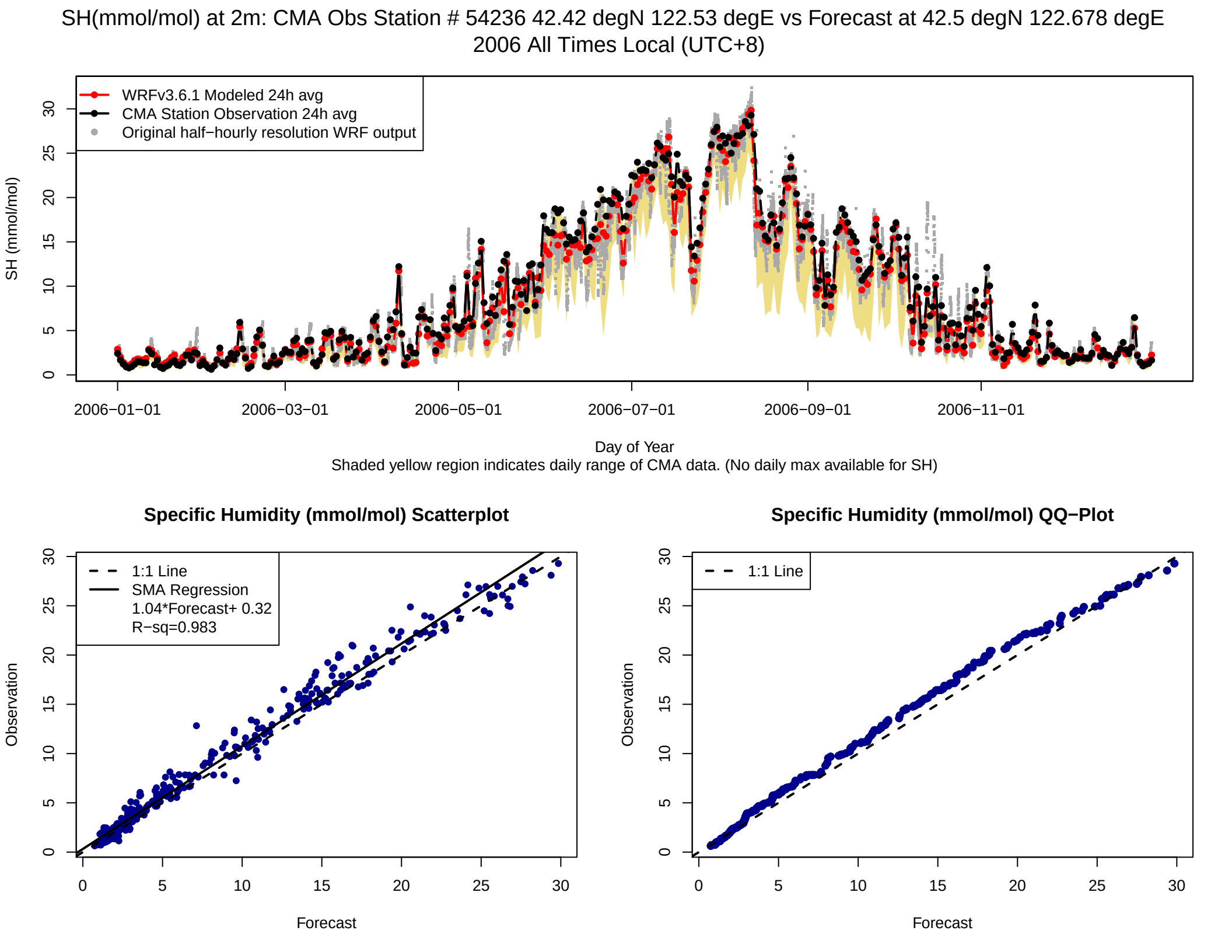
Shaded yellow region indicates daily range of CMA data. (No daily max available for RH%)

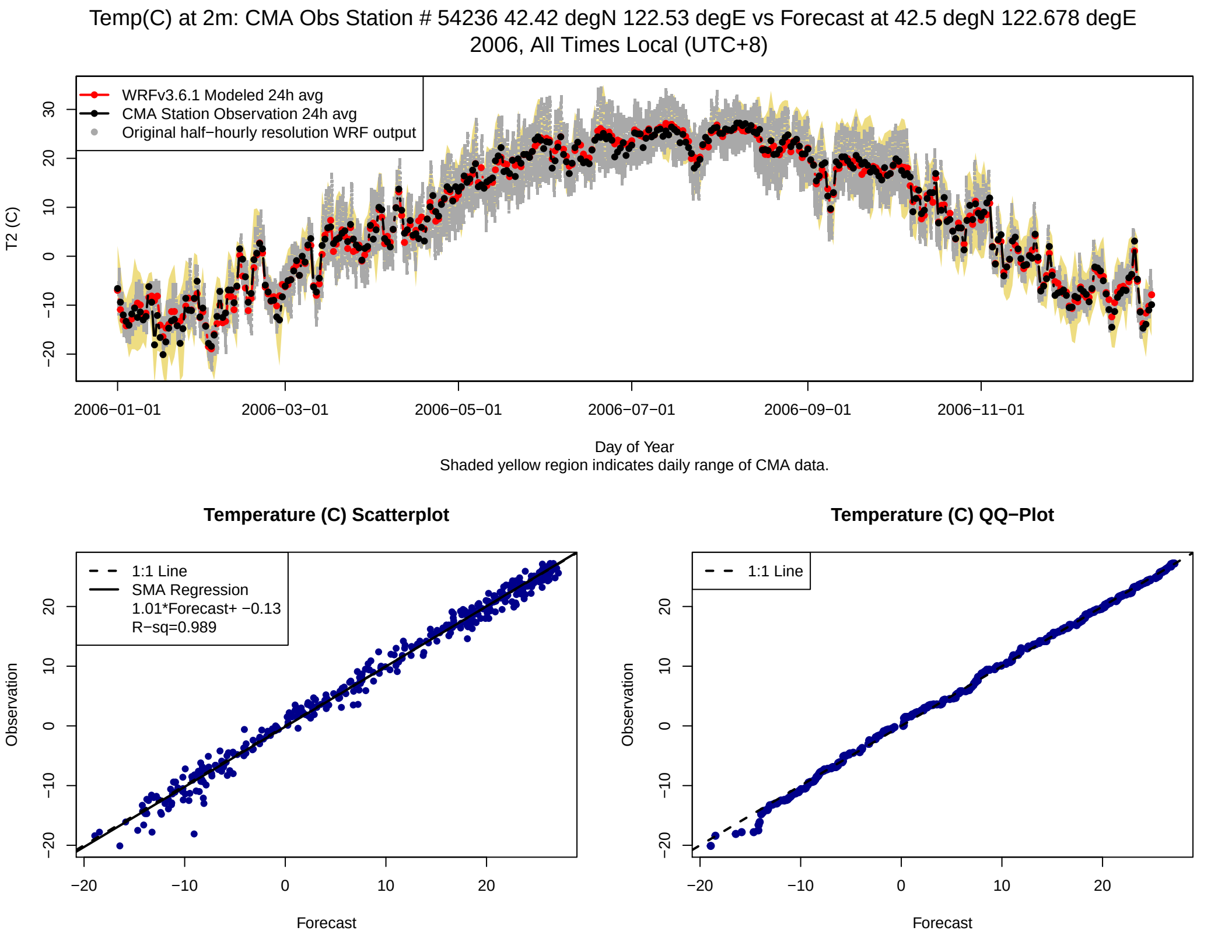
Relative Humidity (%) Scatterplot

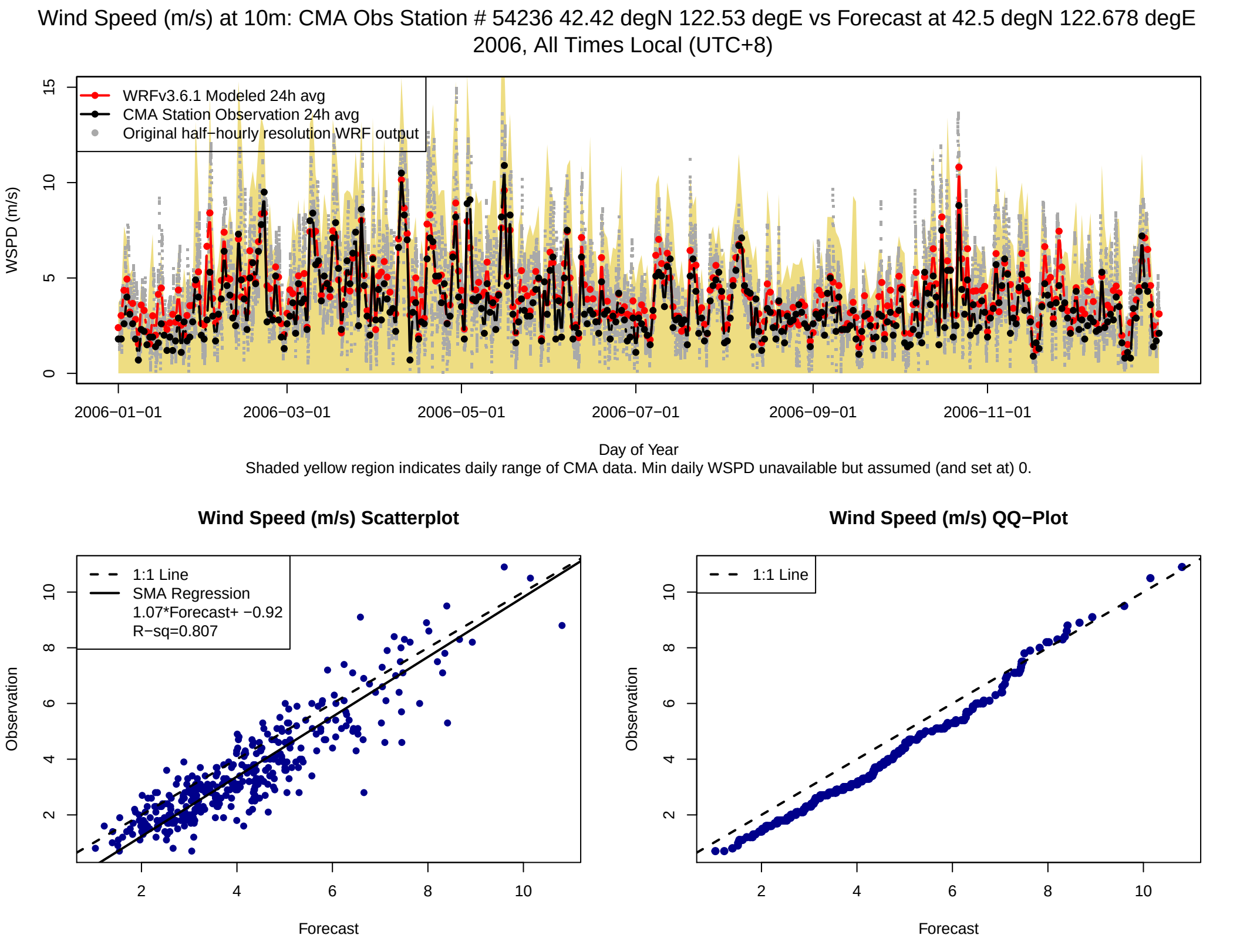


Relative Humidity (%) QQ−Plot

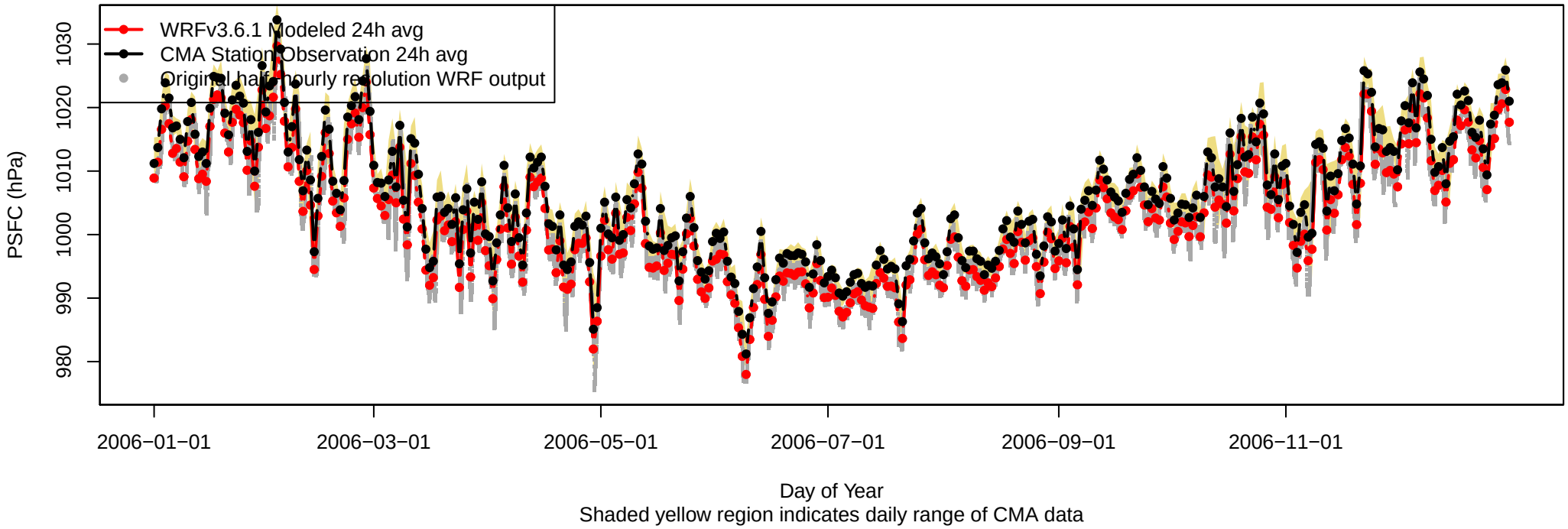



SH(mmol/mol) at 2m: CMA Obs Station # 54236 42.42 degN 122.53 degE vs Forecast at 42.5 degN 122.678 degE
2006 All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
SH (mmol/mol)
0
5
10
15
20
25
30
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data. (No daily max available for SH)
Specific Humidity (mmol/mol) Scatterplot
1:1 Line
SMA Regression
1.04*Forecast+ 0.32
R−sq=0.983
Observation
Forecast
Specific Humidity (mmol/mol) QQ−Plot
1:1 Line
Observation
Forecast

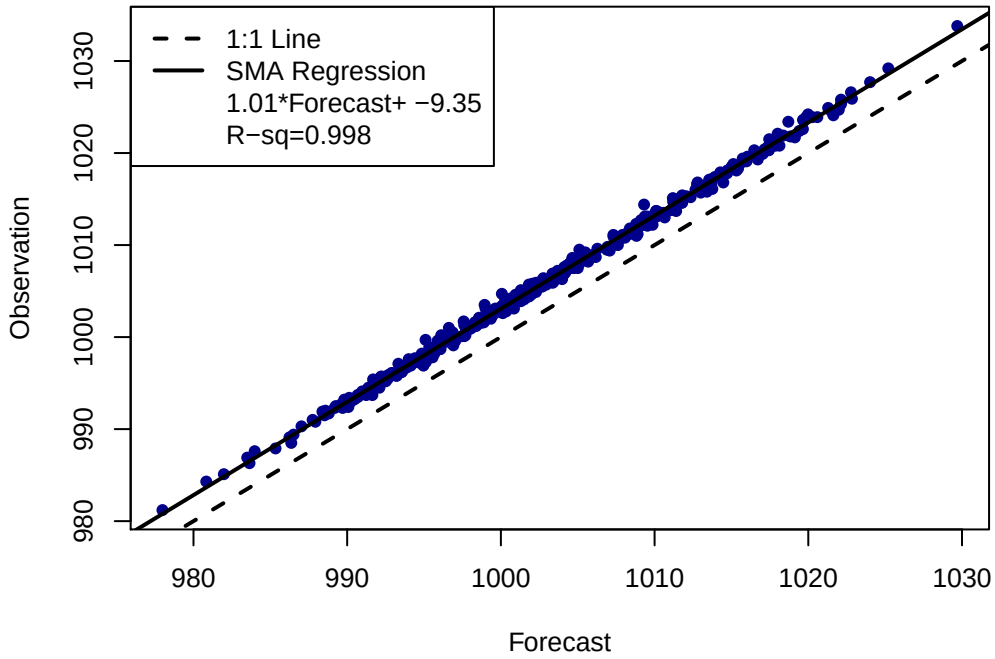

Temp(C) at 2m: CMA Obs Station # 54236 42.42 degN 122.53 degE vs Forecast at 42.5 degN 122.678 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
T2 (C)
30
20
10
0
−10
−20
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data.
Temperature (C) Scatterplot
1:1 Line
SMA Regression
1.01*Forecast+ −0.13
R−sq=0.989
Observation
Forecast
Temperature (C) QQ−Plot
1:1 Line
Observation
Forecast


Wind Speed (m/s) at 10m: CMA Obs Station # 54236 42.42 degN 122.53 degE vs Forecast at 42.5 degN 122.678 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
WSPD (m/s)
0
5
10
15
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data. Min daily WSPD unavailable but assumed (and set at) 0.
Wind Speed (m/s) Scatterplot
1:1 Line
SMA Regression
1.07*Forecast+ −0.92
R−sq=0.807
Observation
Forecast
2
4
6
8
10
Wind Speed (m/s) QQ−Plot
1:1 Line
Observation
Forecast

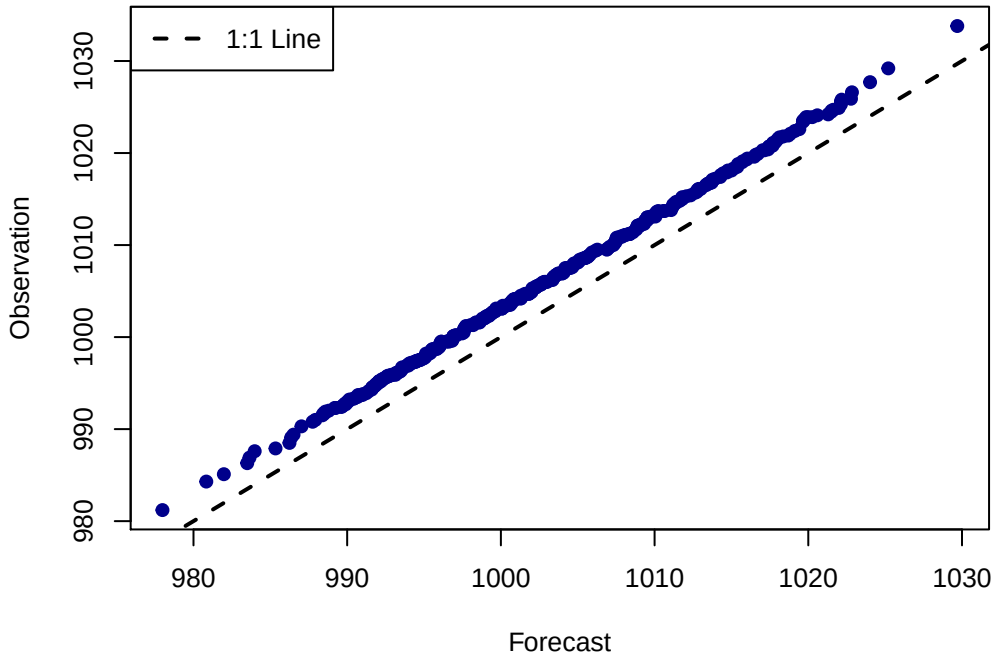
Surface Press (hPa): CMA Obs Station # 54236 42.42 degN 122.53 degE vs Forecast at 42.5 degN 122.678 degE
2006, All Times Local (UTC+8)



Surface Press (hPa) Scatterplot

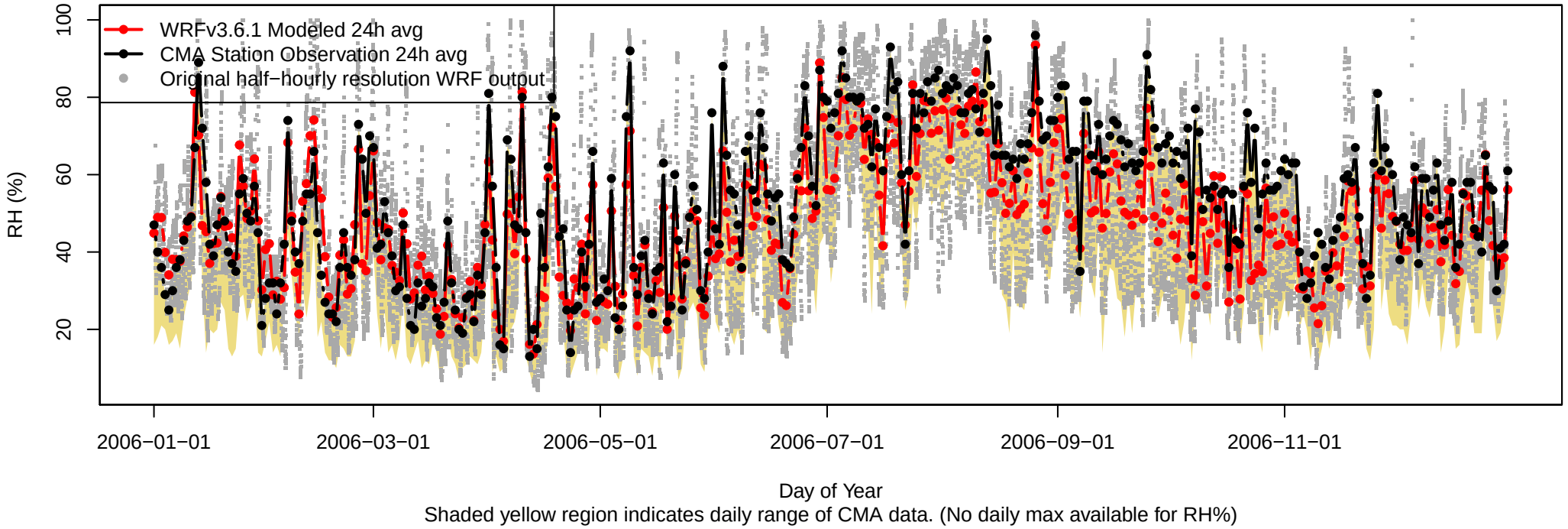


Surface Press (hPa) QQ−Plot



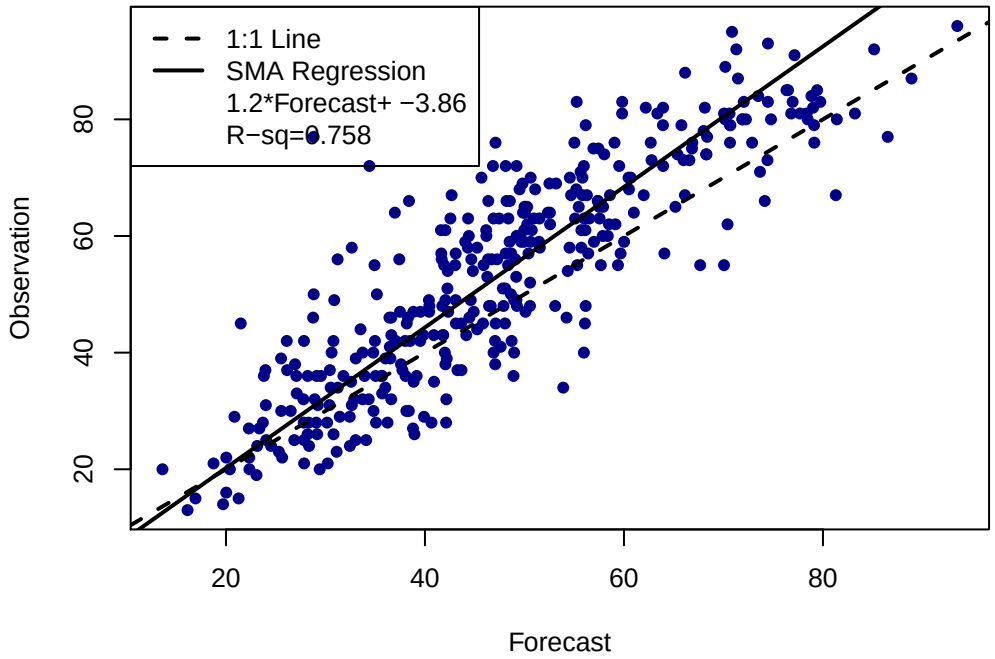
CMA Obs Station # 54324 41.55 degN 120.45 degE
vs Forecast at 41.595 degN 120.553 degE
2006, All Times Local (UTC+8)

Surface RH(%): CMA Obs Station # 54324 41.55 degN 120.45 degE vs 2m Forecast at 41.595 degN 120.553 degE
2006, All Times Local (UTC+8)

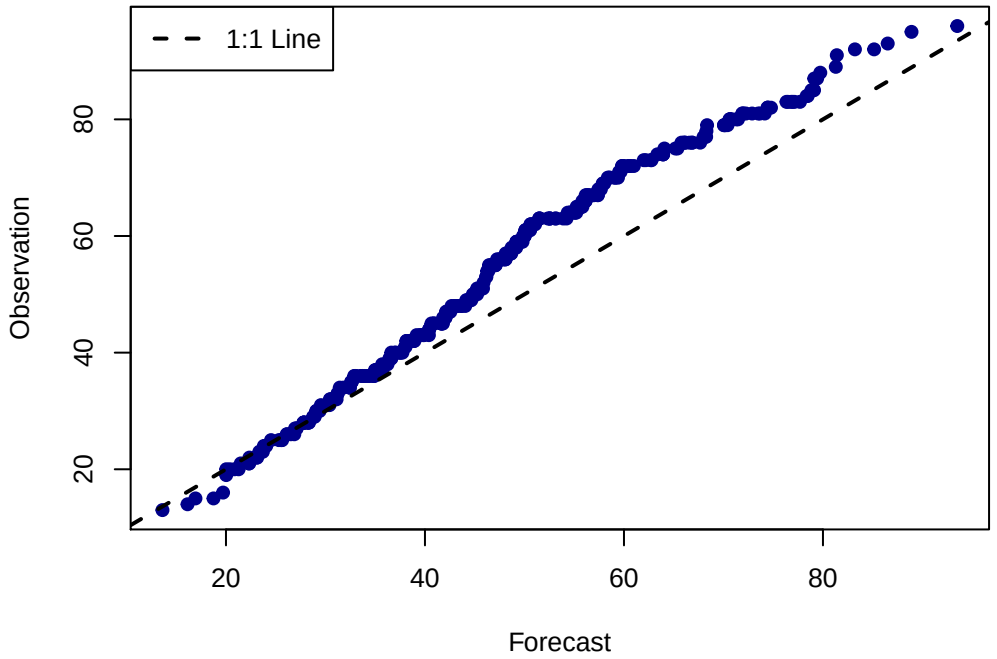


Shaded yellow region indicates daily range of CMA data. (No daily max available for RH%)

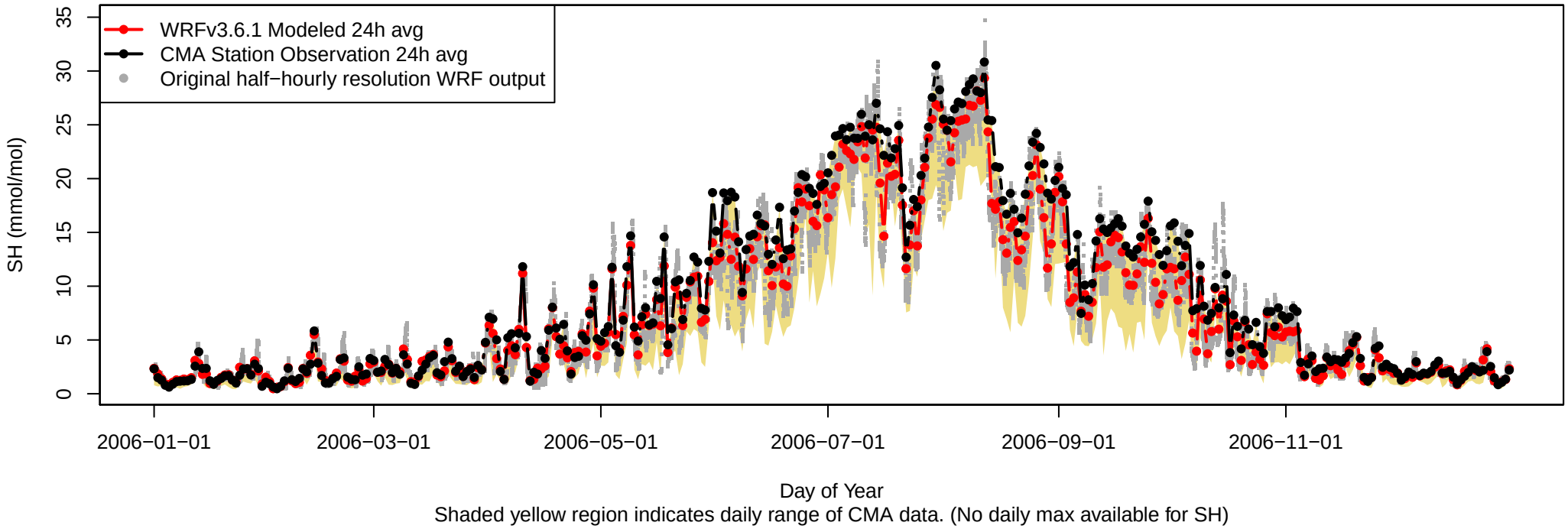
Relative Humidity (%) Scatterplot



Relative Humidity (%) QQ−Plot

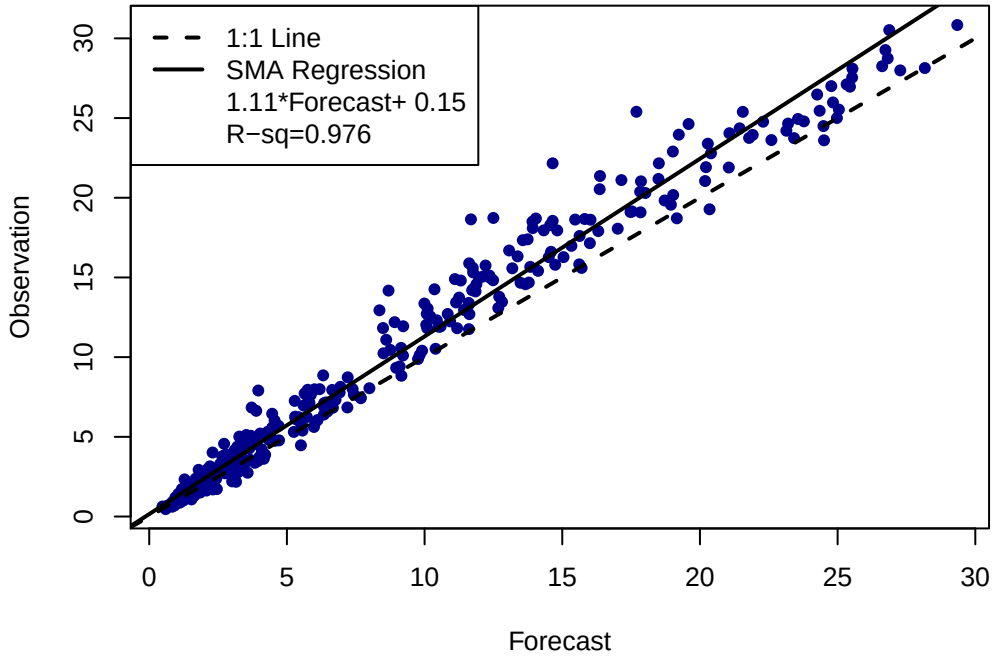


SH(mmol/mol) at 2m: CMA Obs Station # 54324 41.55 degN 120.45 degE vs Forecast at 41.595 degN 120.553 degE
2006 All Times Local (UTC+8)

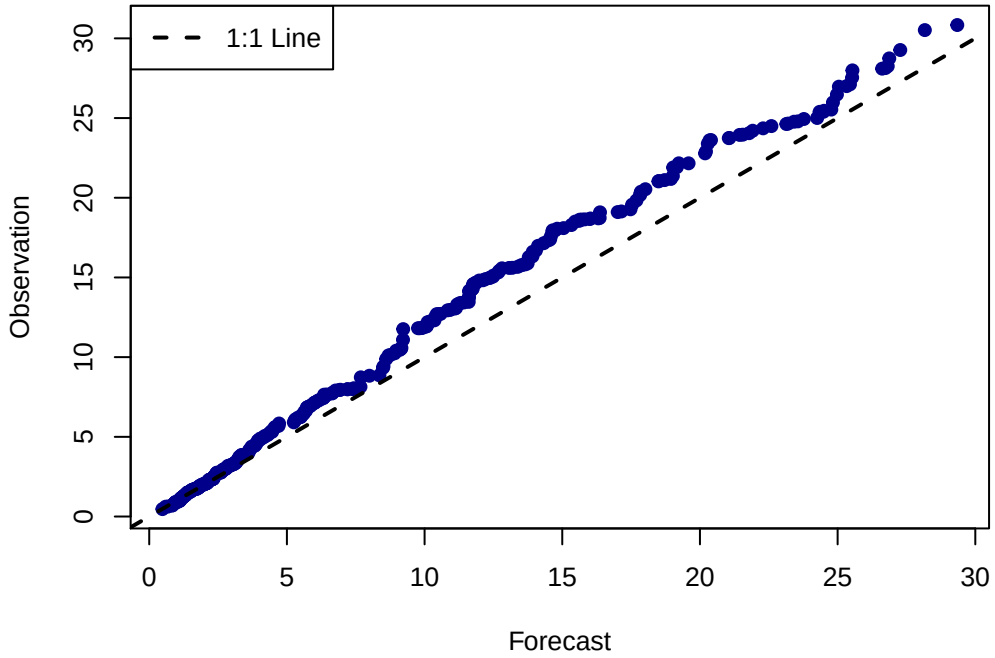


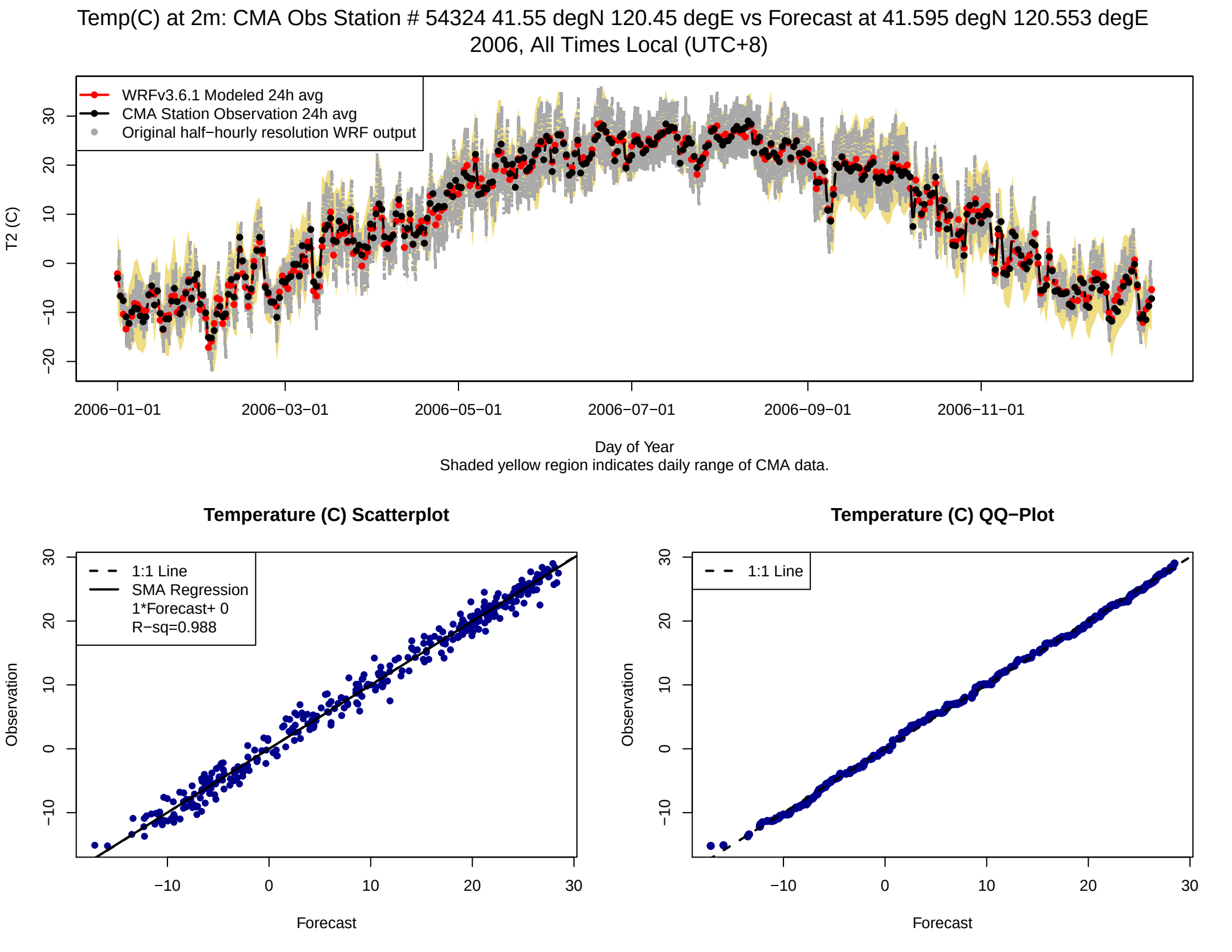
Shaded yellow region indicates daily range of CMA data. (No daily max available for SH)

Specific Humidity (mmol/mol) Scatterplot

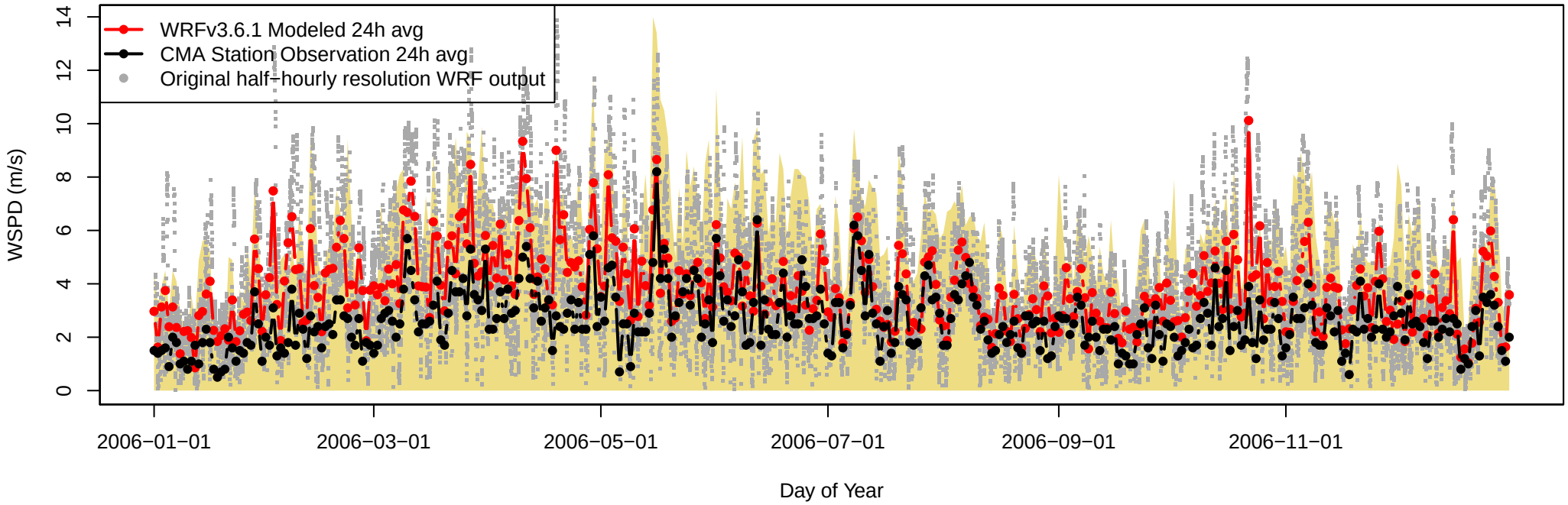


Specific Humidity (mmol/mol) QQ−Plot

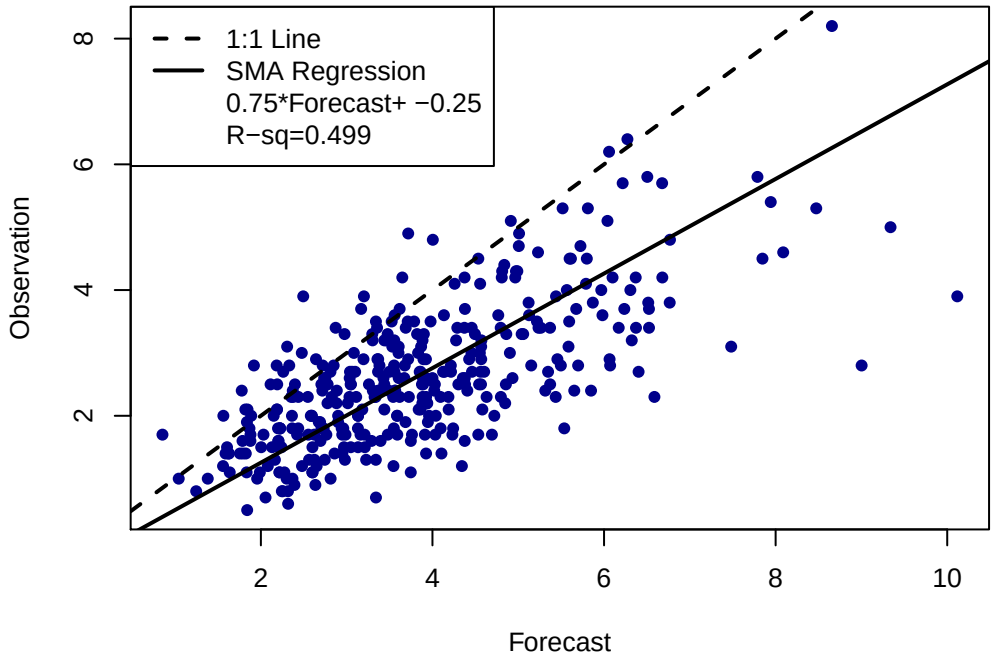


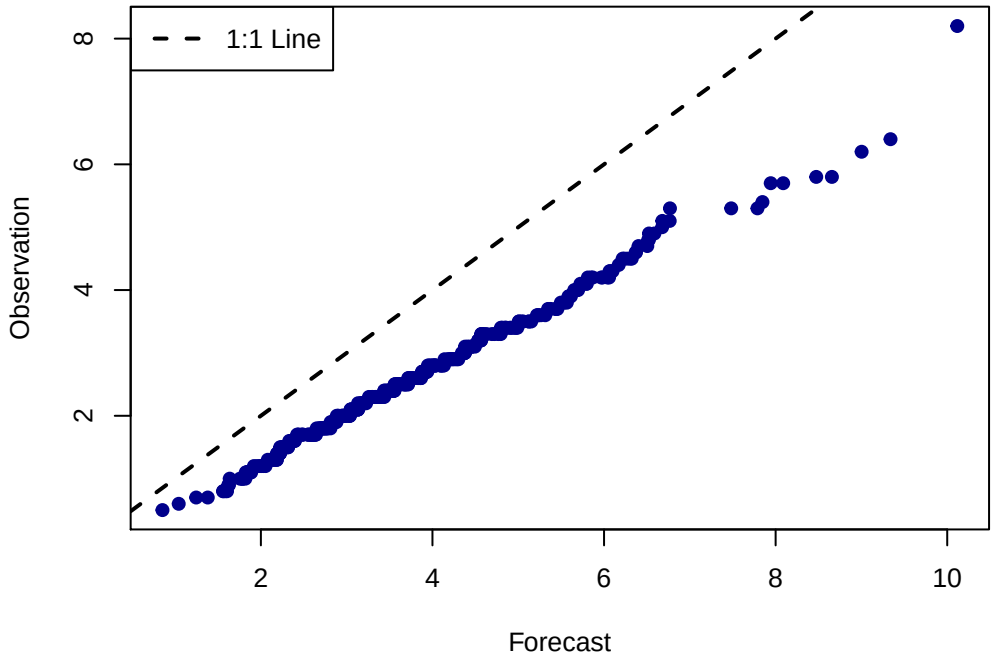

Temp(C) at 2m: CMA Obs Station # 54324 41.55 degN 120.45 degE vs Forecast at 41.595 degN 120.553 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
T2 (C)
30
20
10
0
−10
−20
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data.
Temperature (C) Scatterplot
1:1 Line
SMA Regression
1*Forecast+ 0
R−sq=0.988
Observation
Forecast
−10
0
10
20
30
Temperature (C) QQ−Plot
1:1 Line
Observation
Forecast

Wind Speed (m/s) at 10m: CMA Obs Station # 54324 41.55 degN 120.45 degE vs Forecast at 41.595 degN 120.553 degE
2006, All Times Local (UTC+8)

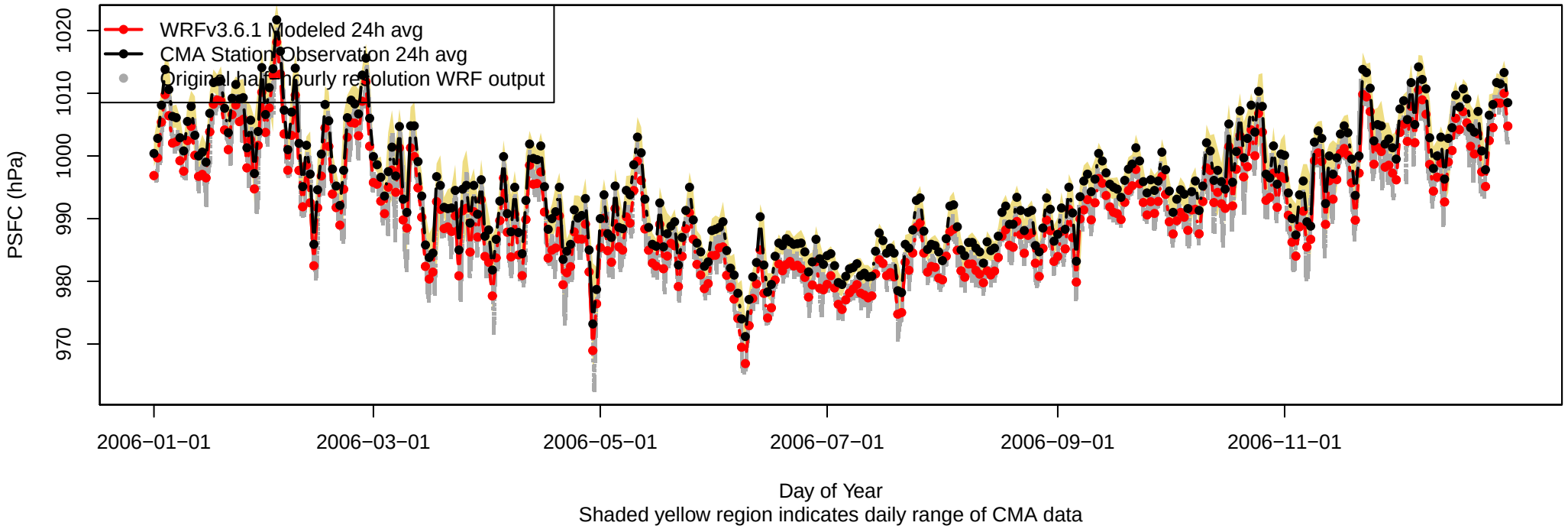


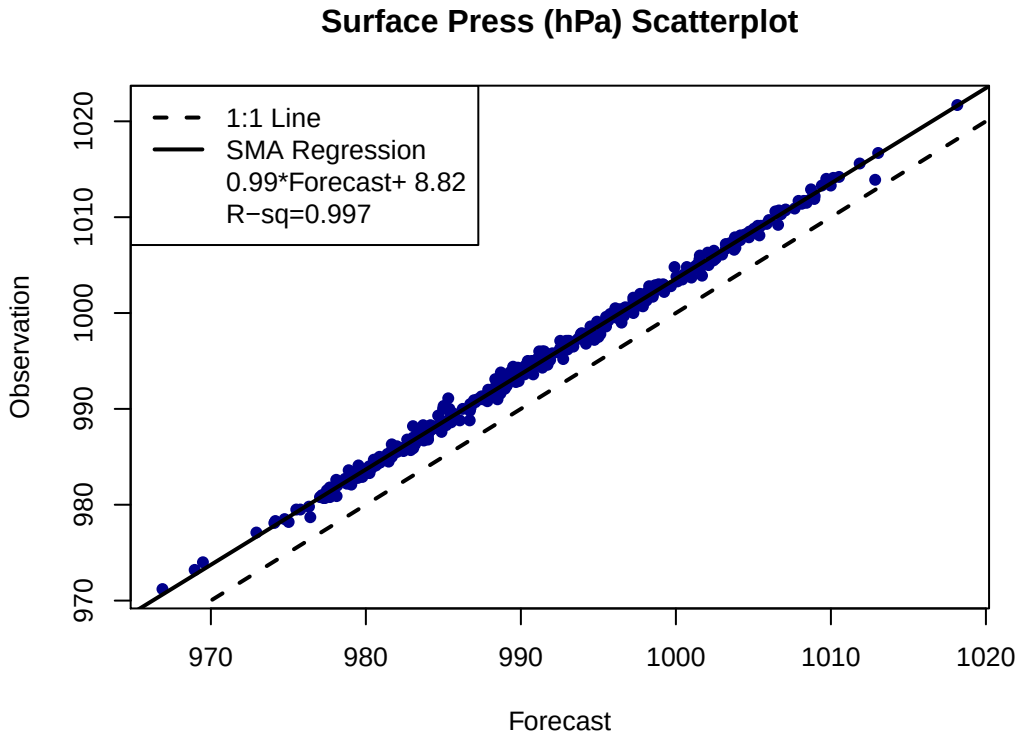
Shaded yellow region indicates daily range of CMA data. Min daily WSPD unavailable but assumed (and set at) 0.

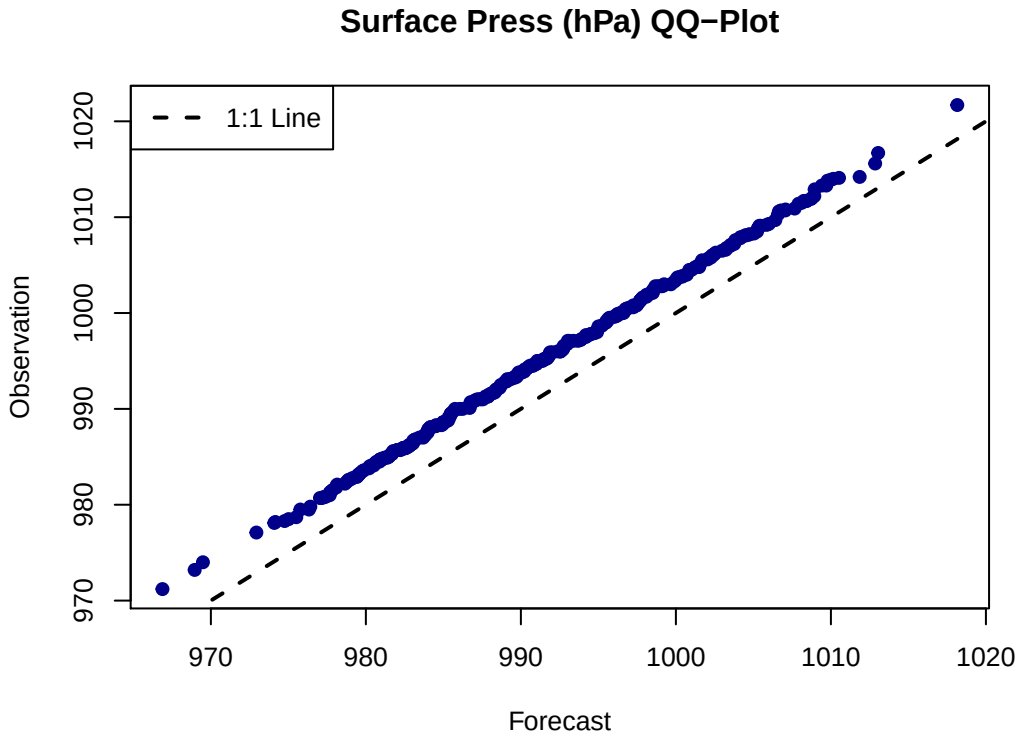




Surface Press (hPa): CMA Obs Station # 54324 41.55 degN 120.45 degE vs Forecast at 41.595 degN 120.553 degE
2006, All Times Local (UTC+8)

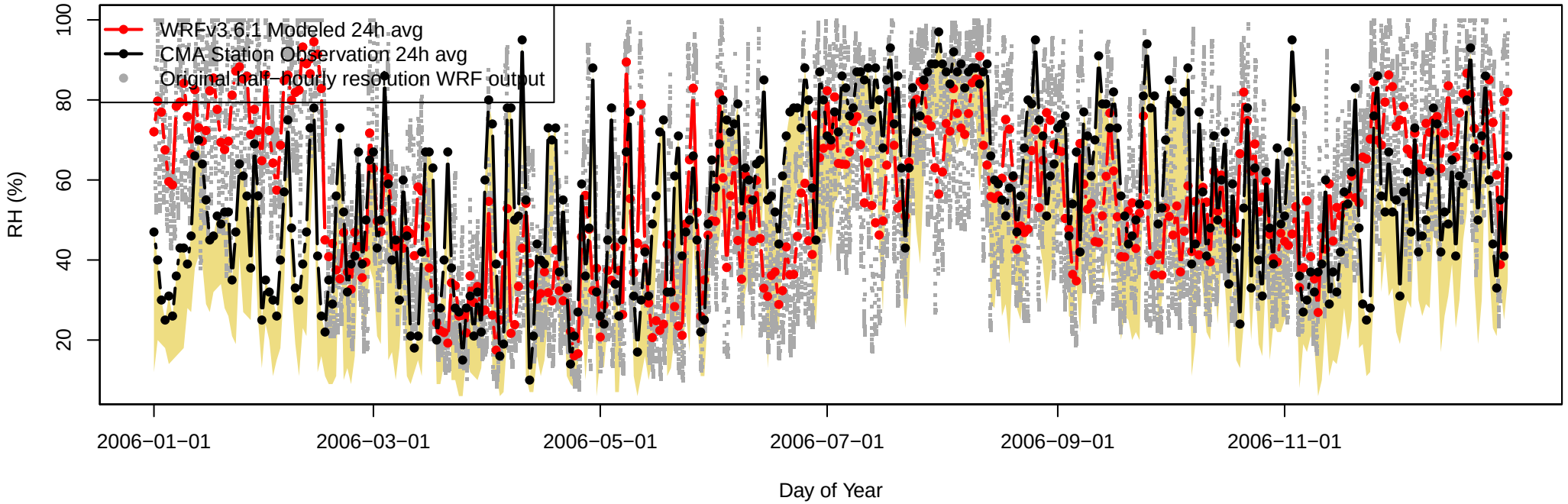






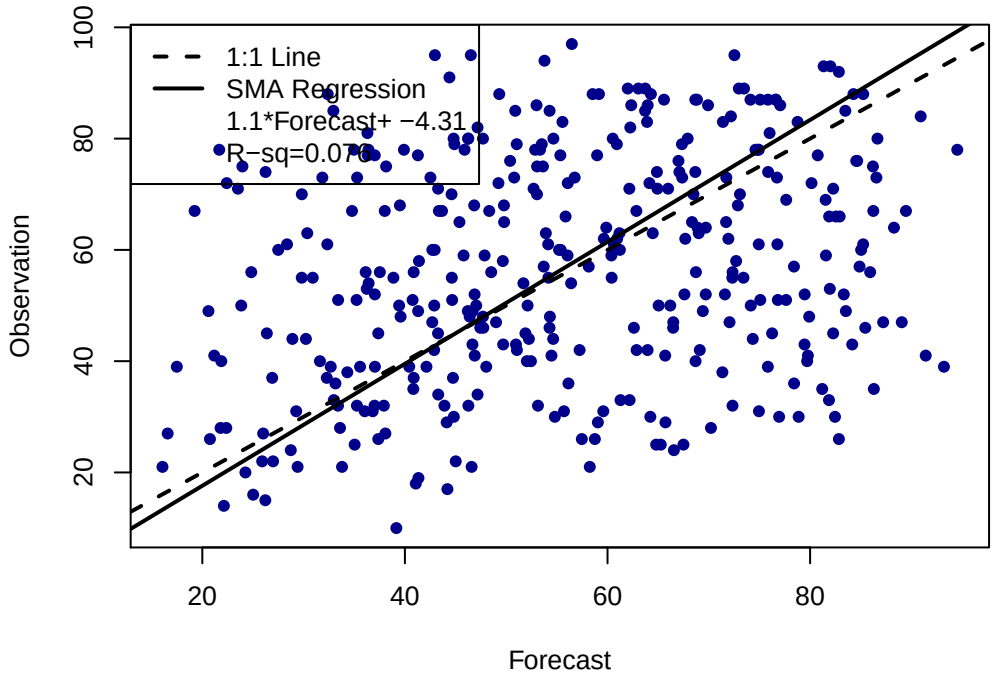
CMA Obs Station # 54337 41.13 degN 121.12 degE
vs Forecast at 41.223 degN 114.815 degE
2006, All Times Local (UTC+8)

Surface RH(%): CMA Obs Station # 54337 41.13 degN 121.12 degE vs 2m Forecast at 41.223 degN 114.815 degE
2006, All Times Local (UTC+8)

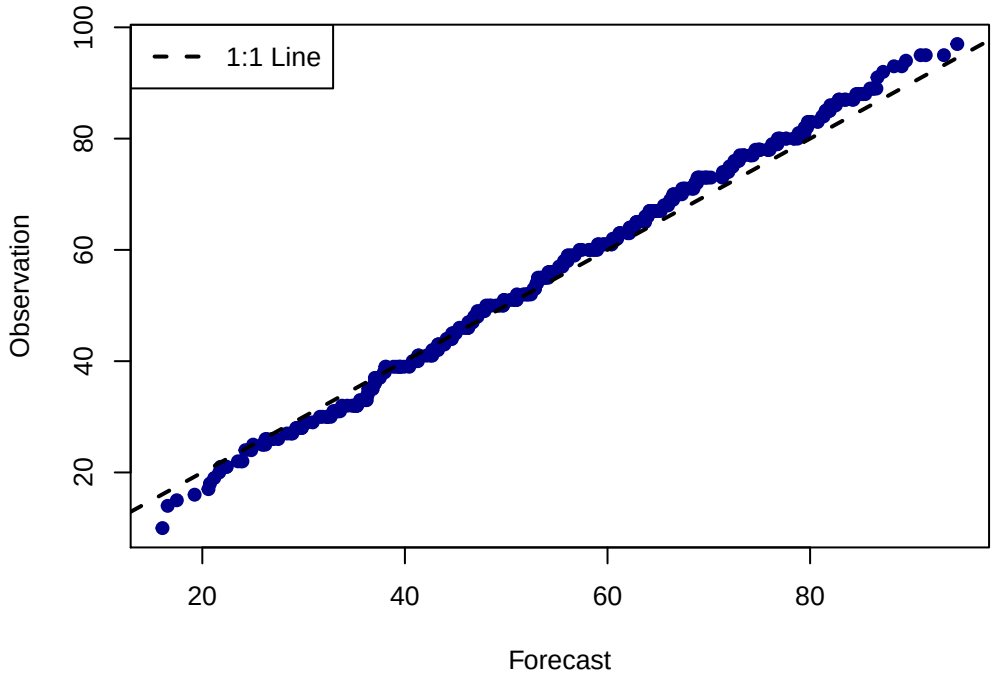


Shaded yellow region indicates daily range of CMA data. (No daily max available for RH%)

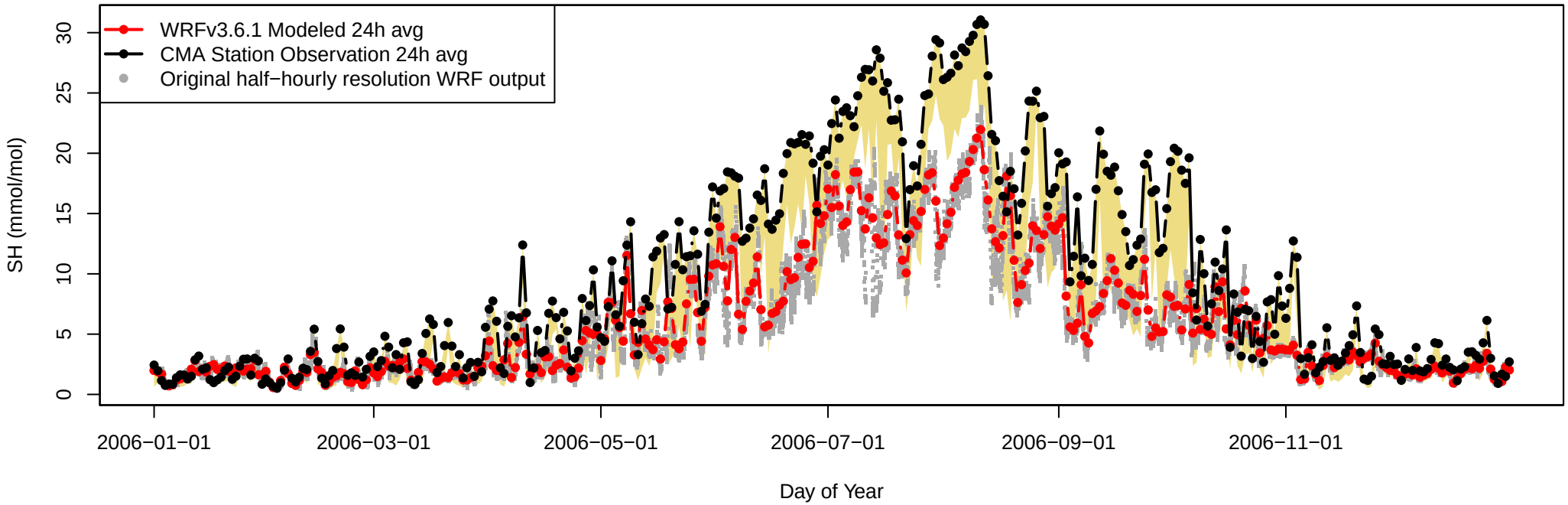
Relative Humidity (%) Scatterplot



Relative Humidity (%) QQ−Plot

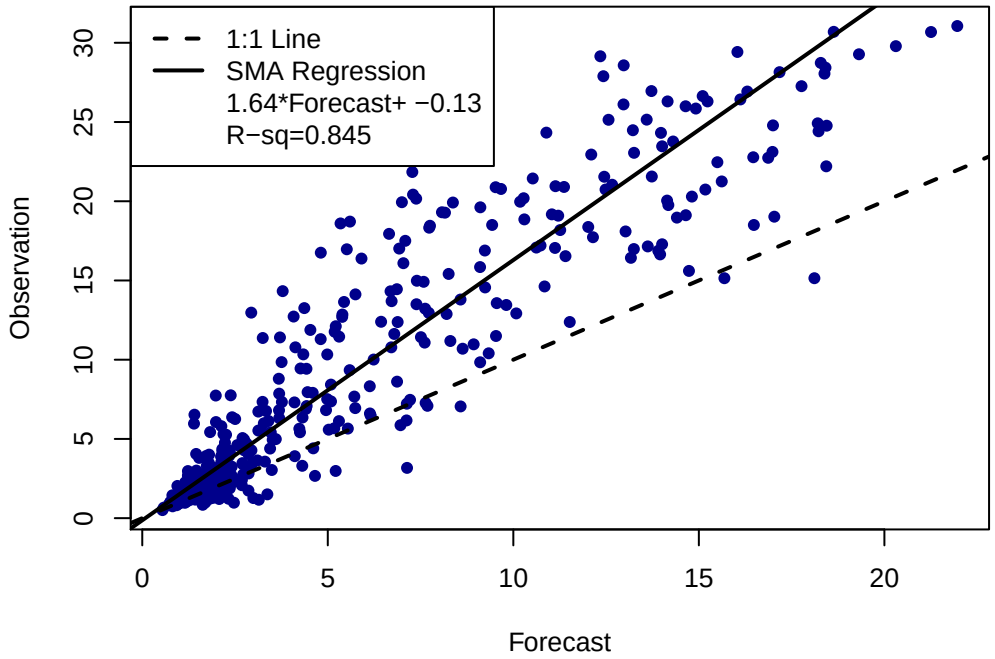


SH(mmol/mol) at 2m: CMA Obs Station # 54337 41.13 degN 121.12 degE vs Forecast at 41.223 degN 114.815 degE
2006 All Times Local (UTC+8)

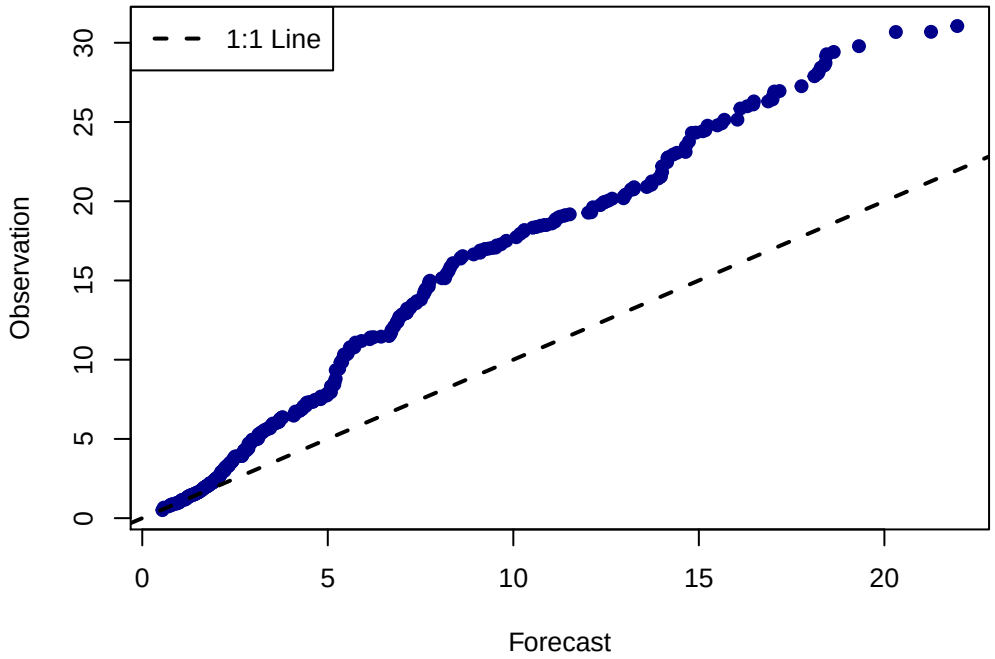


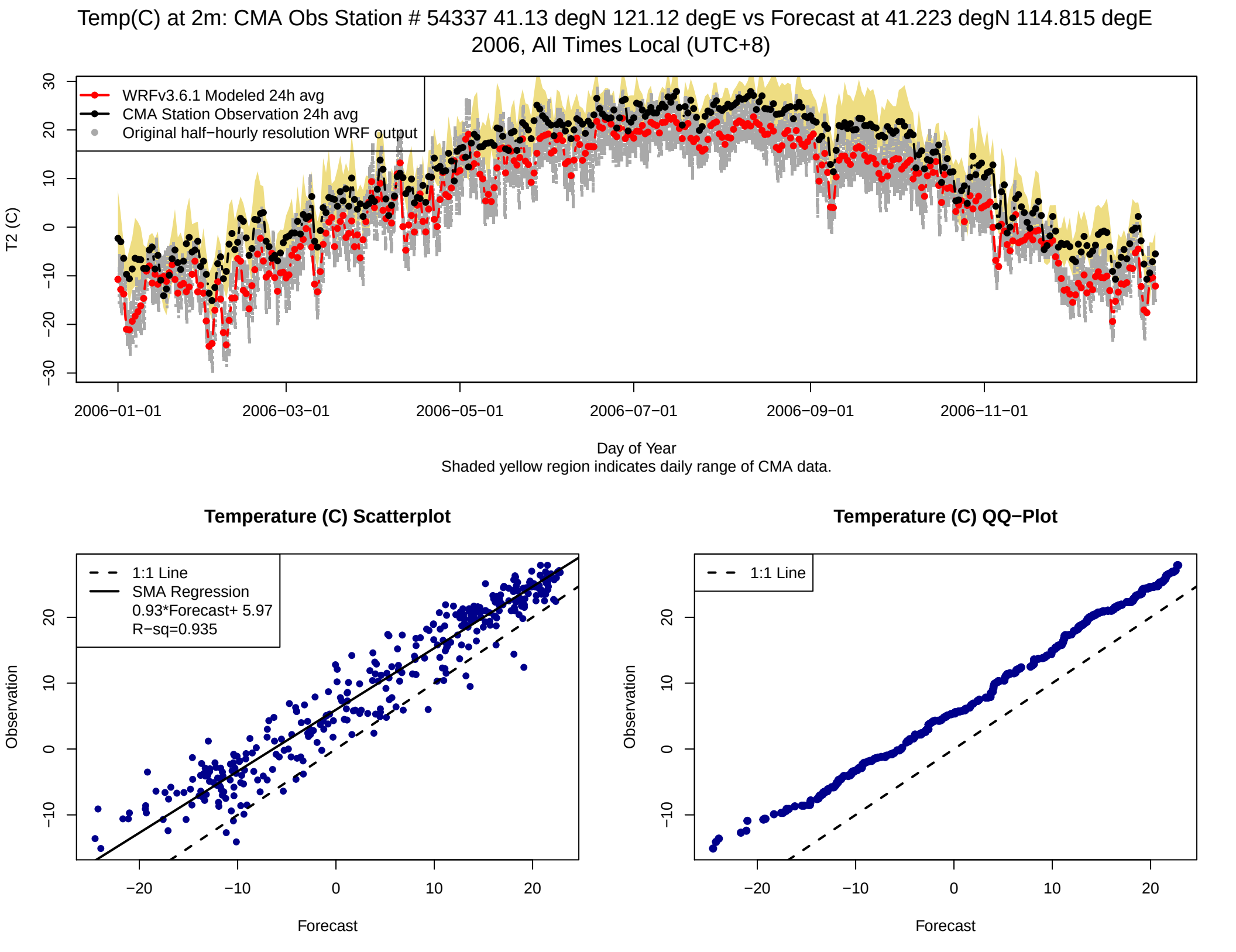
Shaded yellow region indicates daily range of CMA data. (No daily max available for SH)

Specific Humidity (mmol/mol) Scatterplot

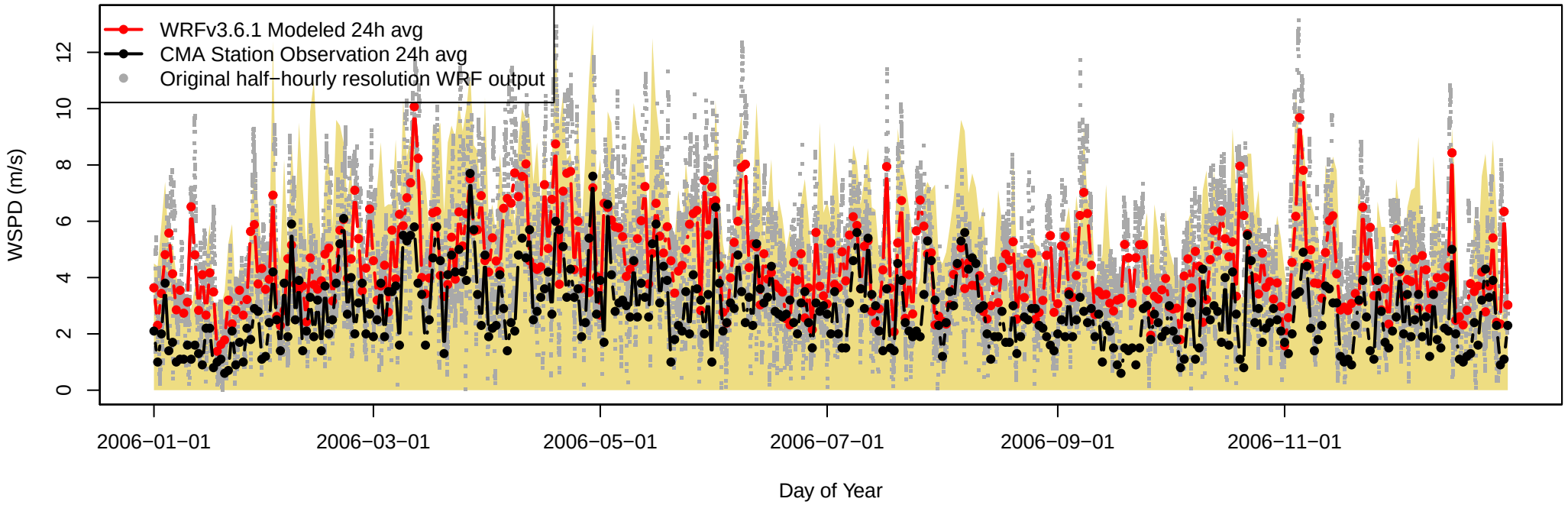


Specific Humidity (mmol/mol) QQ−Plot



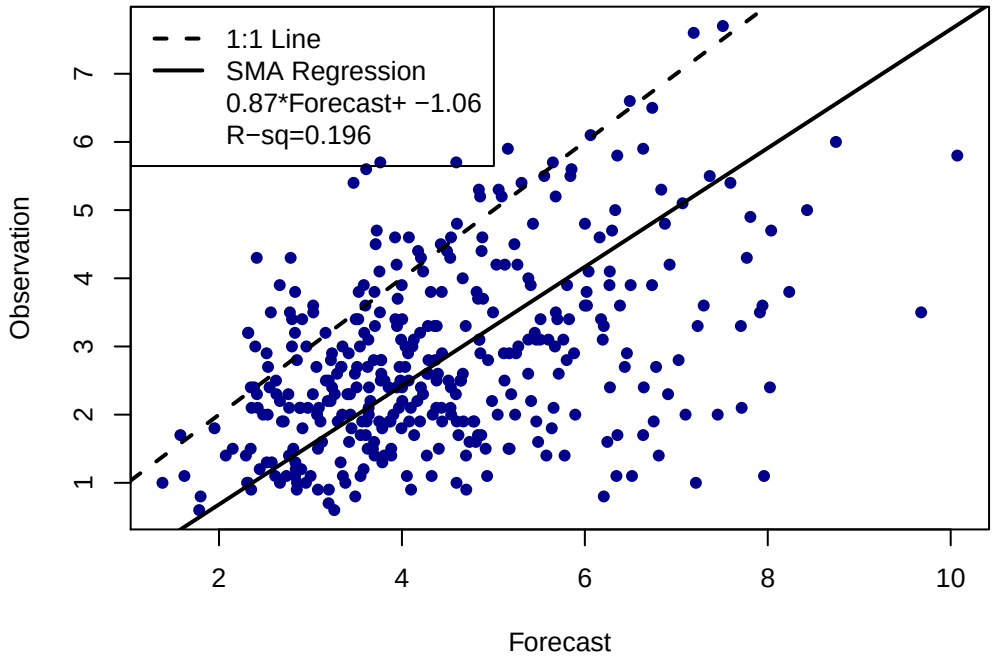

Temp(C) at 2m: CMA Obs Station # 54337 41.13 degN 121.12 degE vs Forecast at 41.223 degN 114.815 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
T2 (C)
30
20
10
0
−10
−20
−30
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data.
Temperature (C) Scatterplot
1:1 Line
SMA Regression
0.93*Forecast+ 5.97
R−sq=0.935
Observation
Forecast
−20
−10
0
10
20
Temperature (C) QQ−Plot
1:1 Line
Observation
Forecast

Wind Speed (m/s) at 10m: CMA Obs Station # 54337 41.13 degN 121.12 degE vs Forecast at 41.223 degN 114.815 degE
2006, All Times Local (UTC+8)

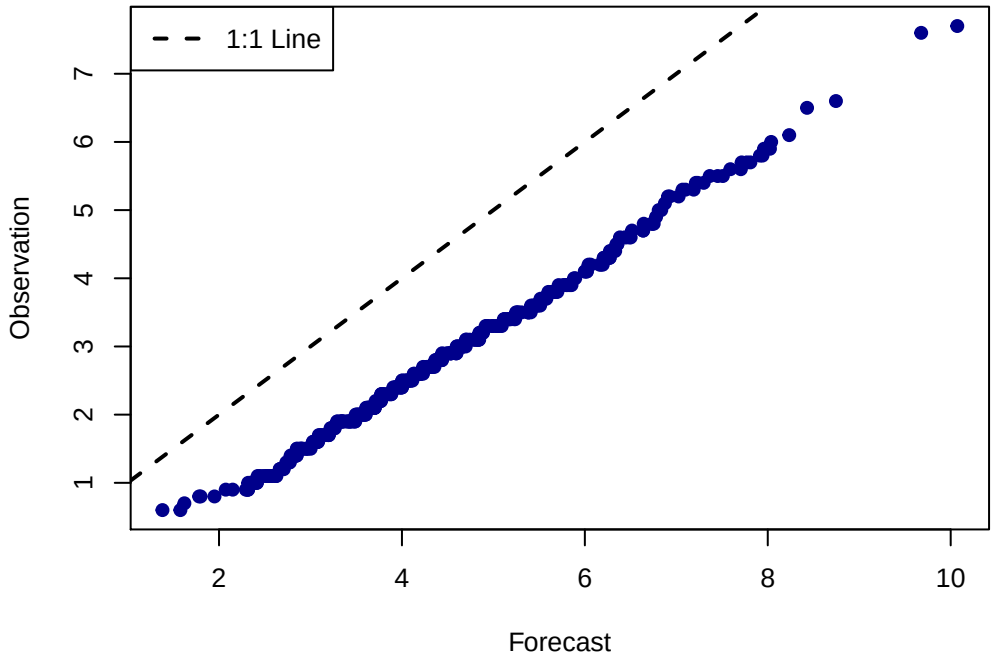


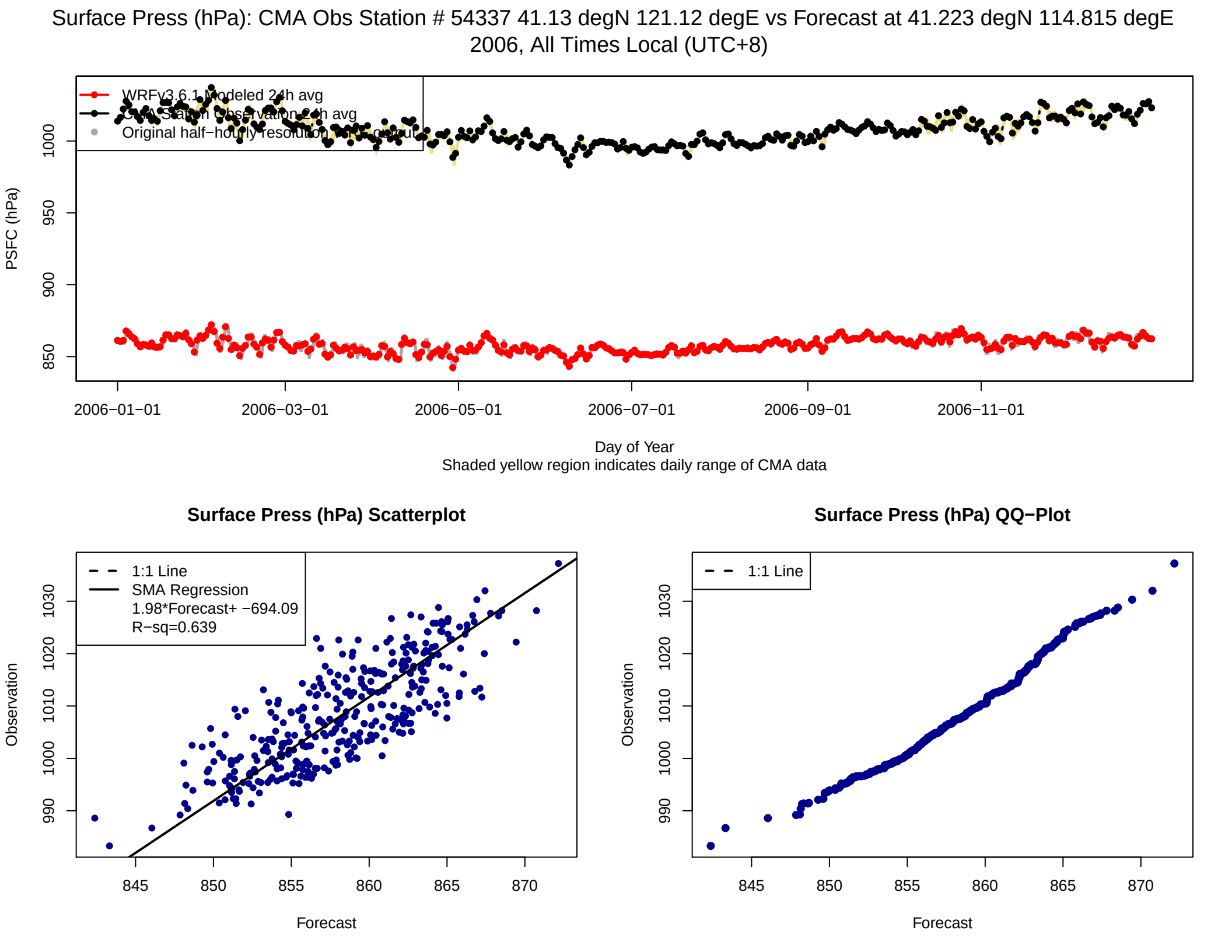
Shaded yellow region indicates daily range of CMA data. Min daily WSPD unavailable but assumed (and set at) 0.

Wind Speed (m/s) Scatterplot

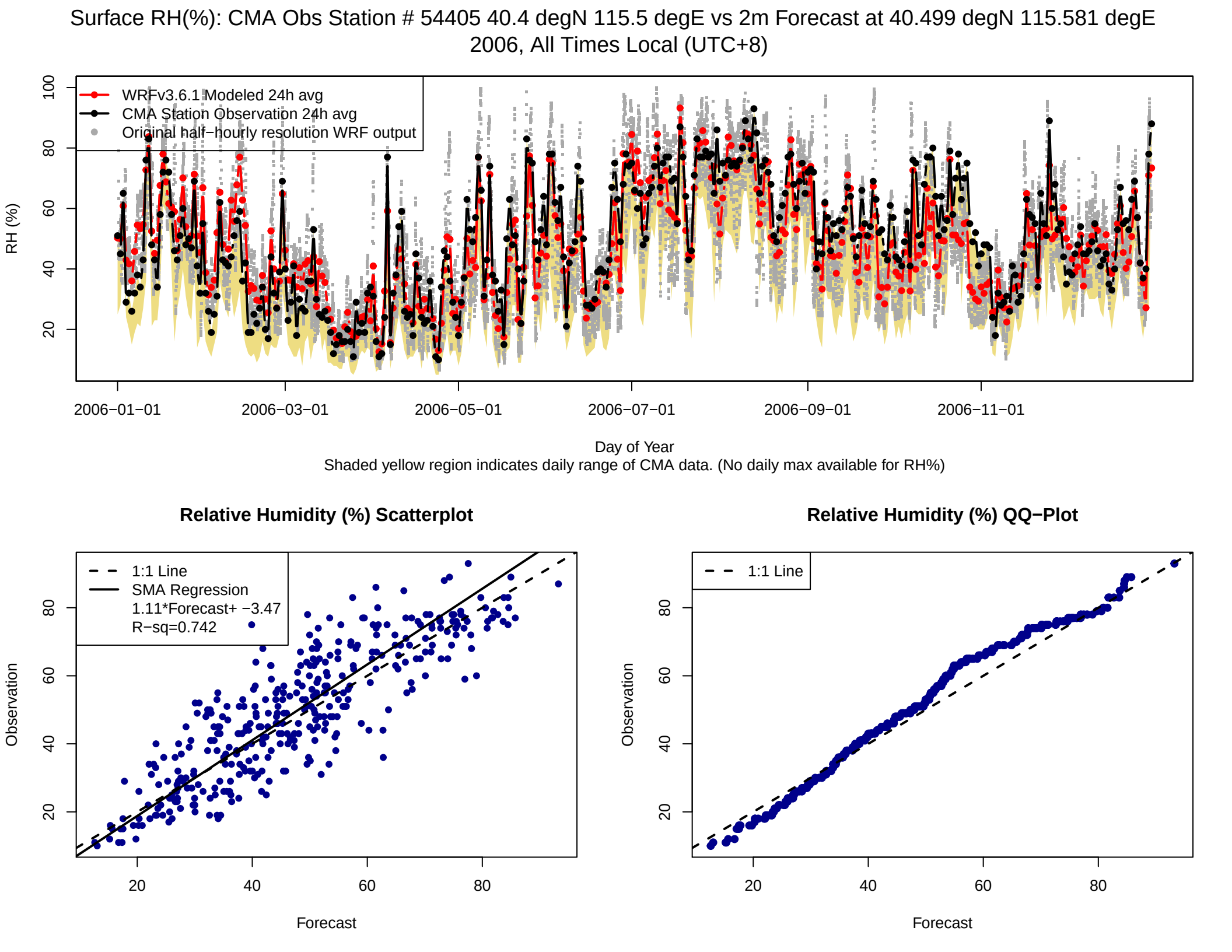


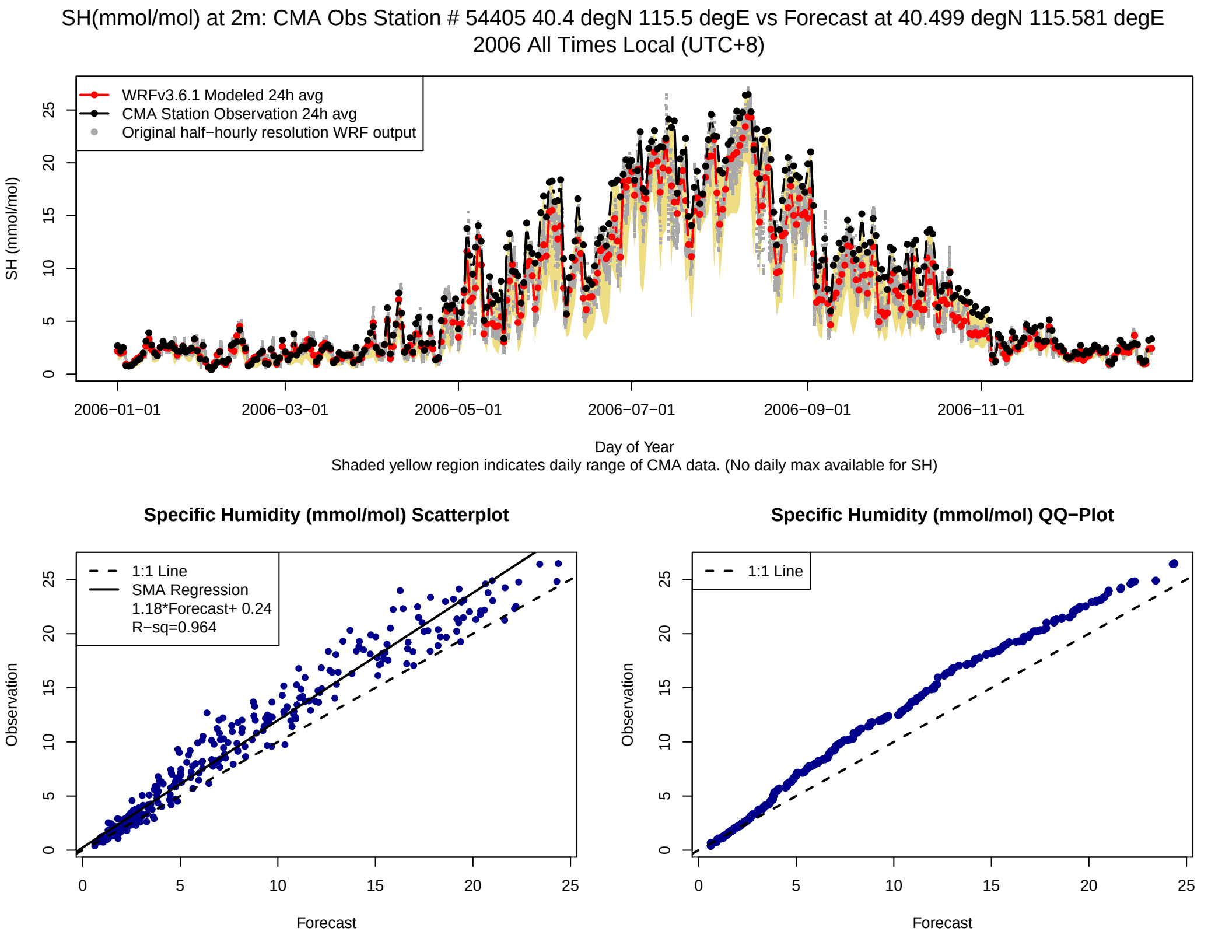
Wind Speed (m/s) QQ−Plot

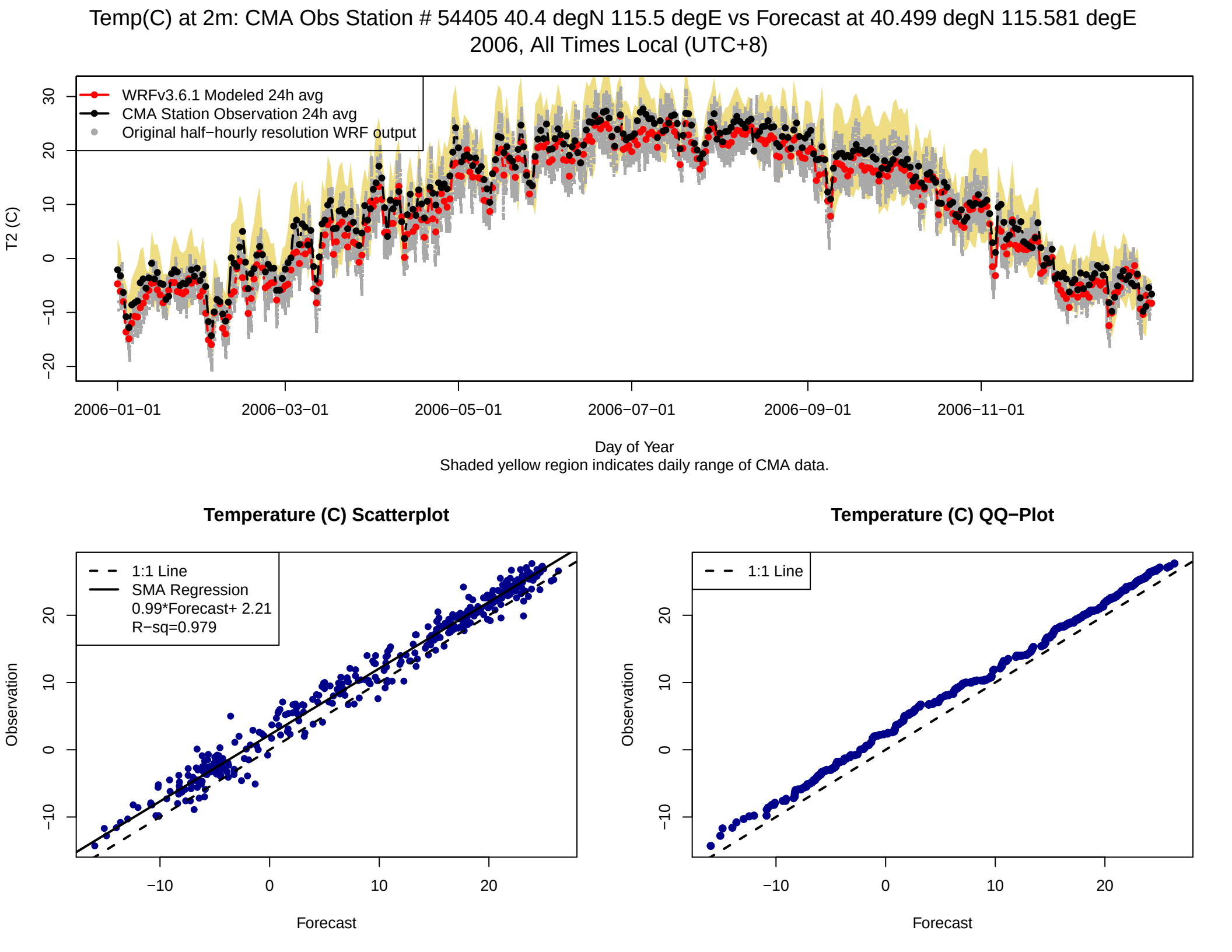



Surface Press (hPa): CMA Obs Station # 54337 41.13 degN 121.12 degE vs Forecast at 41.223 degN 114.815 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half-hourly resolution from dataset
PSFC (hPa)
1000
950
900
850
2006-01-01
2006-03-01
2006-05-01
2006-07-01
2006-09-01
2006-11-01
Day of Year
Shaded yellow region indicates daily range of CMA data
Surface Press (hPa) Scatterplot
1:1 Line
SMA Regression
1.98*Forecast+ -694.09
R-sq=0.639
Observation
1030
1020
1010
1000
990
845
850
855
860
865
870
Forecast
Surface Press (hPa) QQ-Plot
1:1 Line
Observation
1030
1020
1010
1000
990
845
850
855
860
865
870
Forecast

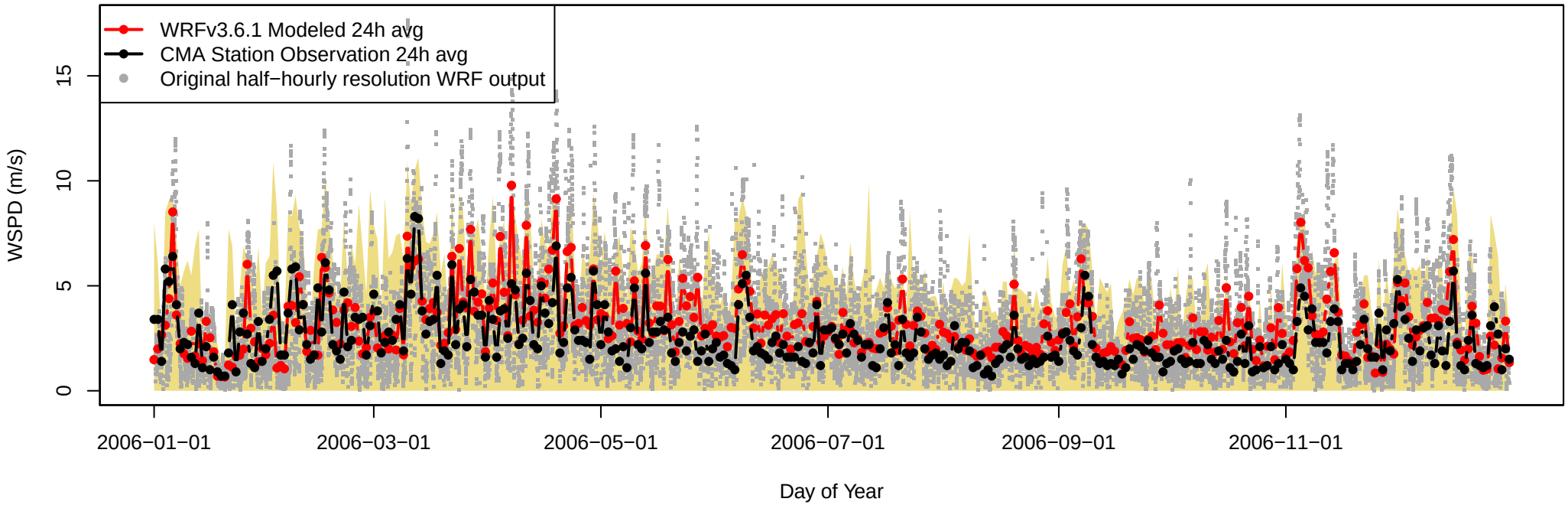
CMA Obs Station # 54405 40.4 degN 115.5 degE
vs Forecast at 40.499 degN 115.581 degE
2006, All Times Local (UTC+8)


Surface RH(%): CMA Obs Station # 54405 40.4 degN 115.5 degE vs 2m Forecast at 40.499 degN 115.581 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
RH (%)
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data. (No daily max available for RH%)
Relative Humidity (%) Scatterplot
1:1 Line
SMA Regression
1.11*Forecast+ −3.47
R−sq=0.742
Observation
Forecast
Relative Humidity (%) QQ−Plot
1:1 Line
Observation
Forecast


SH(mmol/mol) at 2m: CMA Obs Station # 54405 40.4 degN 115.5 degE vs Forecast at 40.499 degN 115.581 degE
2006 All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
SH (mmol/mol)
0
5
10
15
20
25
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data. (No daily max available for SH)
Specific Humidity (mmol/mol) Scatterplot
1:1 Line
SMA Regression
1.18*Forecast+ 0.24
R−sq=0.964
Observation
Forecast
Specific Humidity (mmol/mol) QQ−Plot
1:1 Line
Observation
Forecast

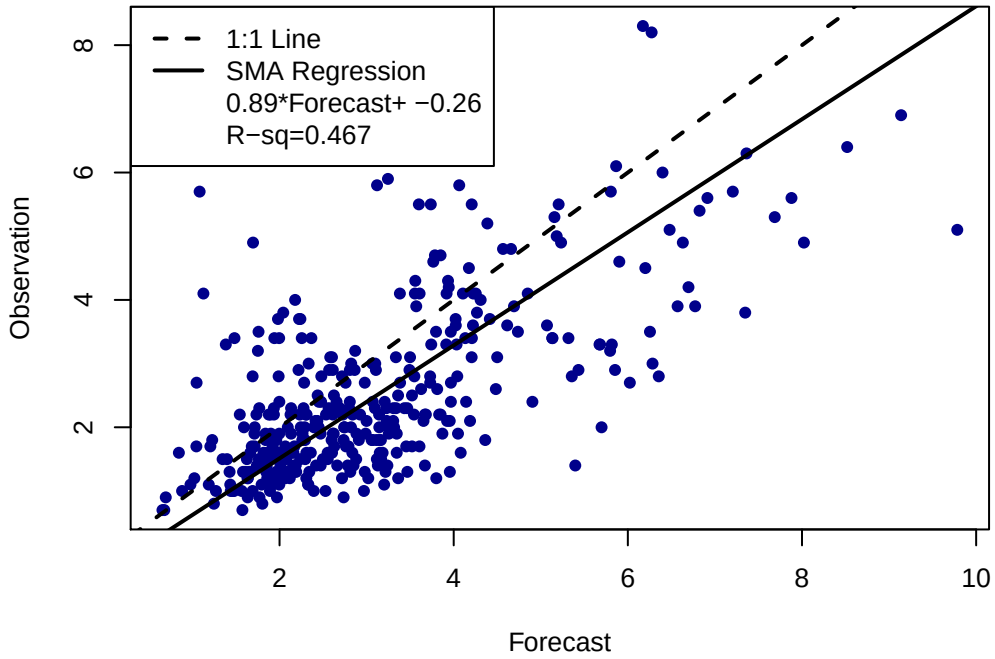

Temp(C) at 2m: CMA Obs Station # 54405 40.4 degN 115.5 degE vs Forecast at 40.499 degN 115.581 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
T2 (C)
30
20
10
0
−10
−20
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data.
Temperature (C) Scatterplot
1:1 Line
SMA Regression
0.99*Forecast+ 2.21
R−sq=0.979
Observation
Forecast
−10
0
10
20
Temperature (C) QQ−Plot
1:1 Line
Observation
Forecast

Wind Speed (m/s) at 10m: CMA Obs Station # 54405 40.4 degN 115.5 degE vs Forecast at 40.499 degN 115.581 degE
2006, All Times Local (UTC+8)

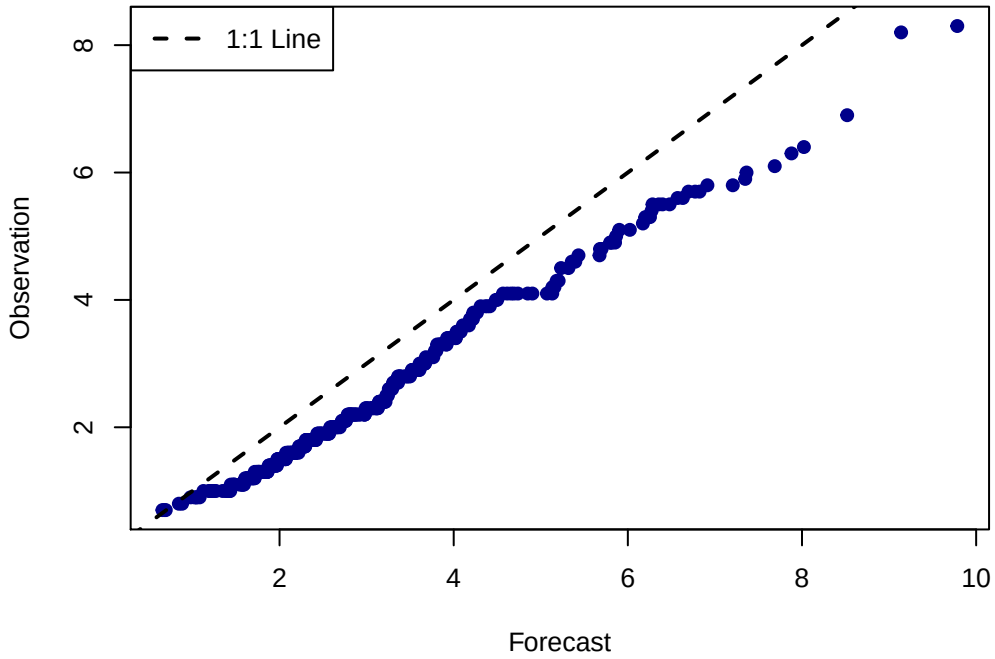


Shaded yellow region indicates daily range of CMA data. Min daily WSPD unavailable but assumed (and set at) 0.

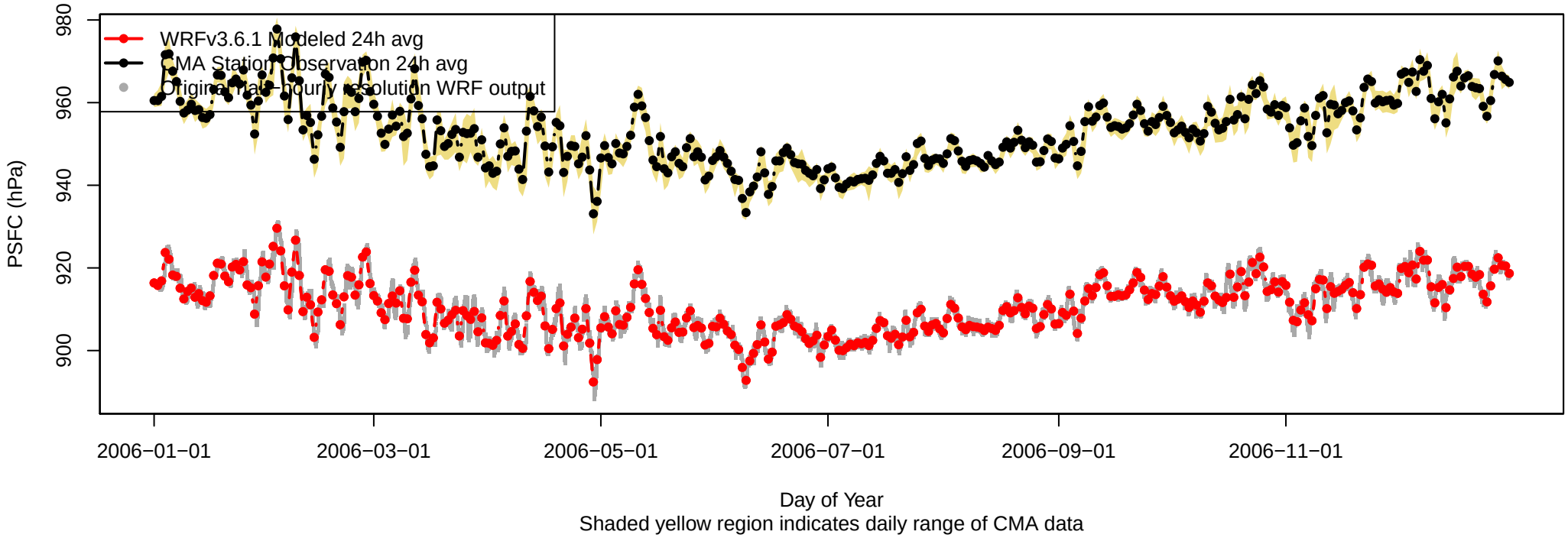
Wind Speed (m/s) Scatterplot



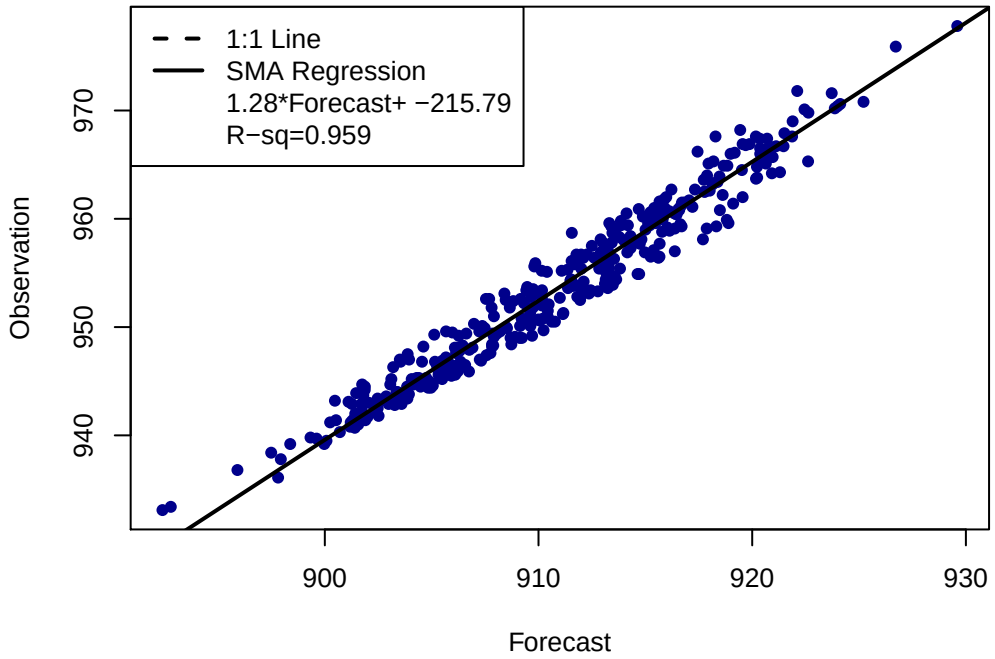
Wind Speed (m/s) QQ−Plot



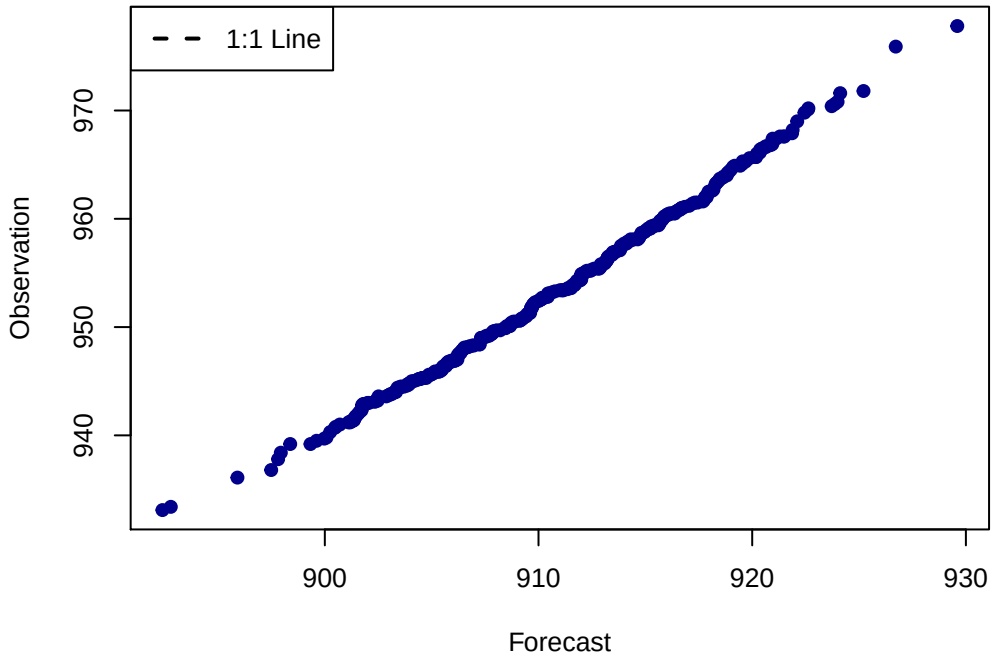
Surface Press (hPa): CMA Obs Station # 54405 40.4 degN 115.5 degE vs Forecast at 40.499 degN 115.581 degE
2006, All Times Local (UTC+8)



Surface Press (hPa) Scatterplot

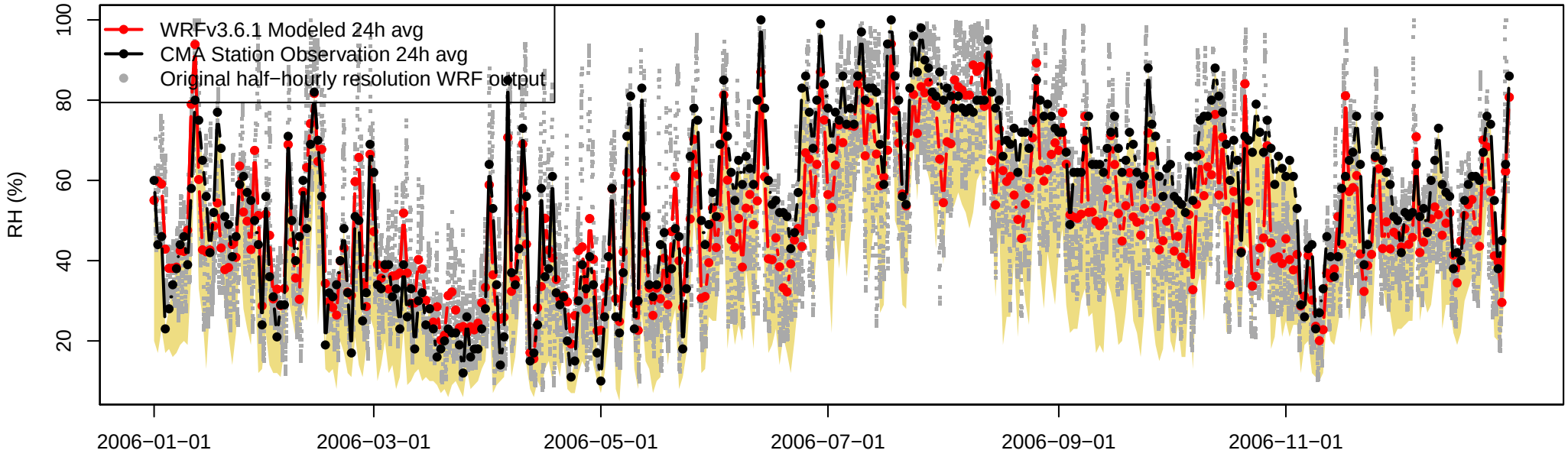


Surface Press (hPa) QQ−Plot



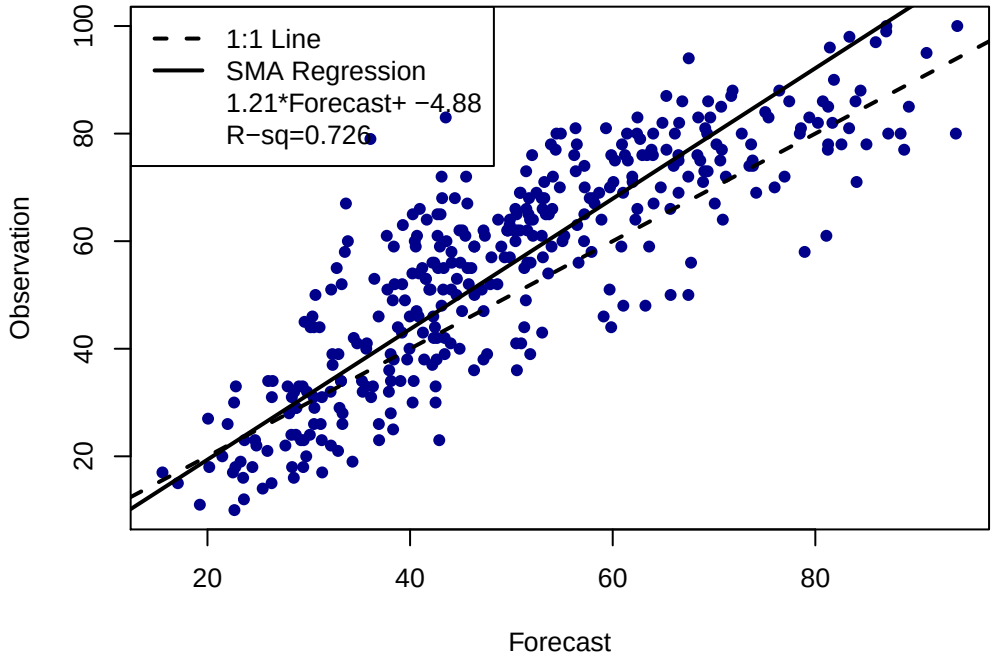
CMA Obs Station # 54423 40.98 degN 117.95 degE
vs Forecast at 41.068 degN 118.051 degE
2006, All Times Local (UTC+8)

Surface RH(%): CMA Obs Station # 54423 40.98 degN 117.95 degE vs 2m Forecast at 41.068 degN 118.051 degE
2006, All Times Local (UTC+8)

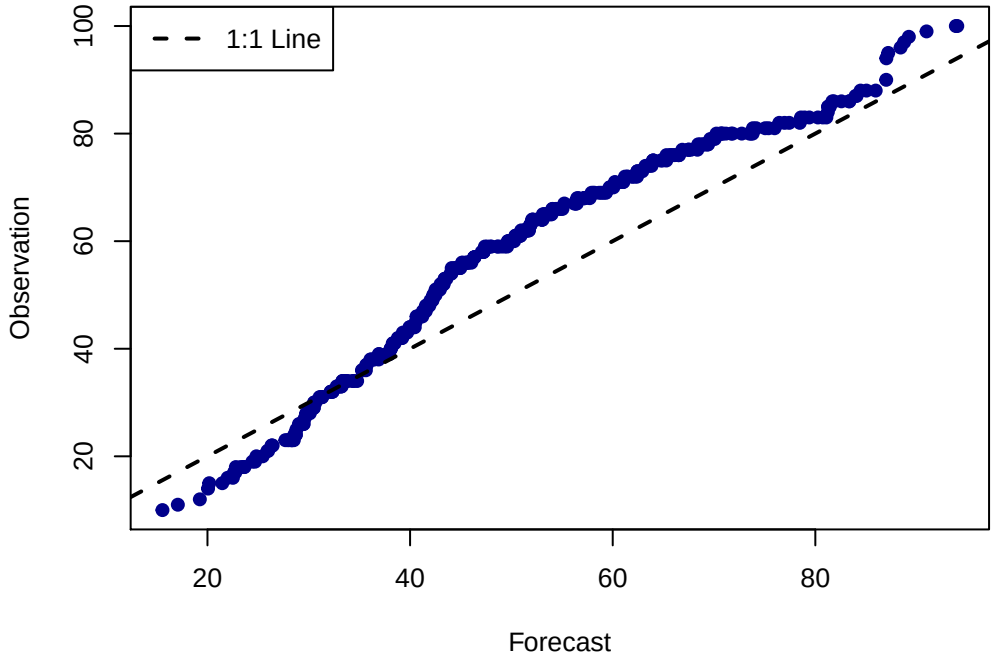


Shaded yellow region indicates daily range of CMA data. (No daily max available for RH%)

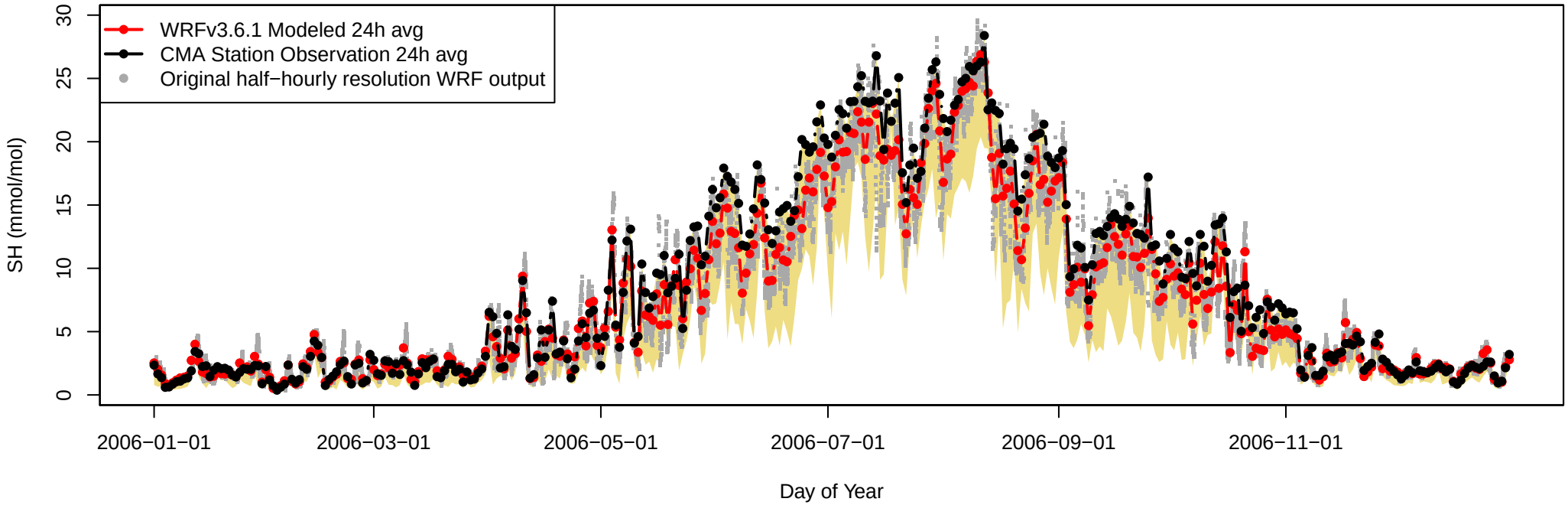
Relative Humidity (%) Scatterplot



Relative Humidity (%) QQ−Plot

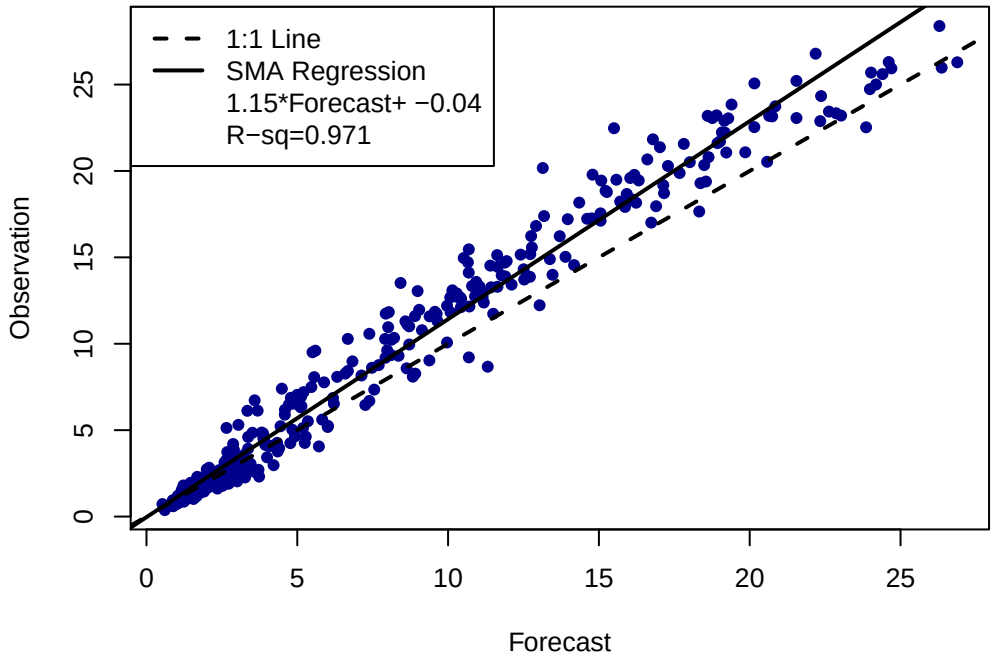


SH(mmol/mol) at 2m: CMA Obs Station # 54423 40.98 degN 117.95 degE vs Forecast at 41.068 degN 118.051 degE
2006 All Times Local (UTC+8)

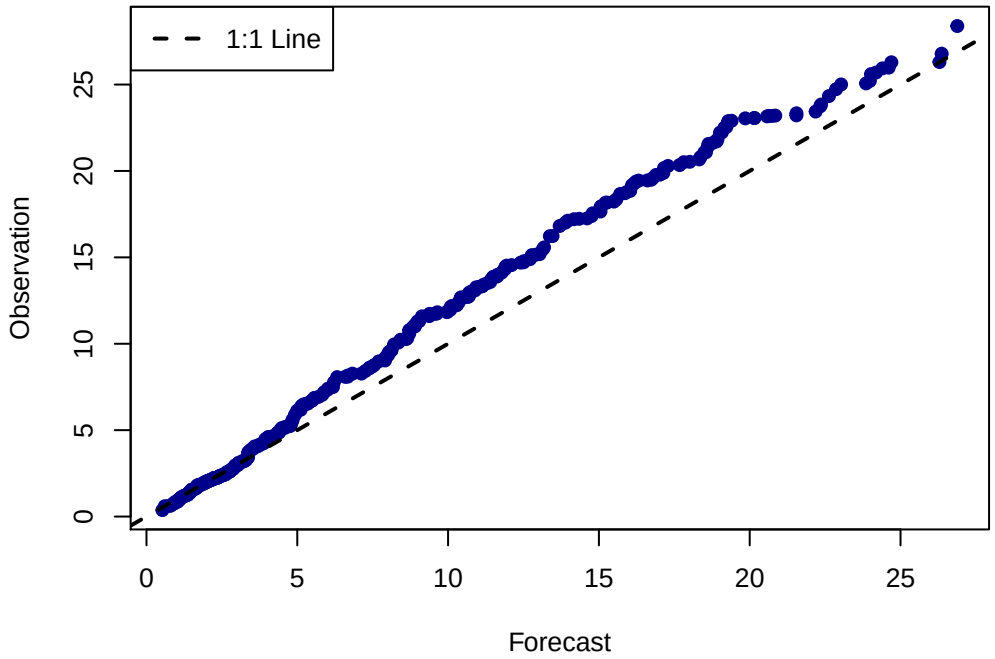


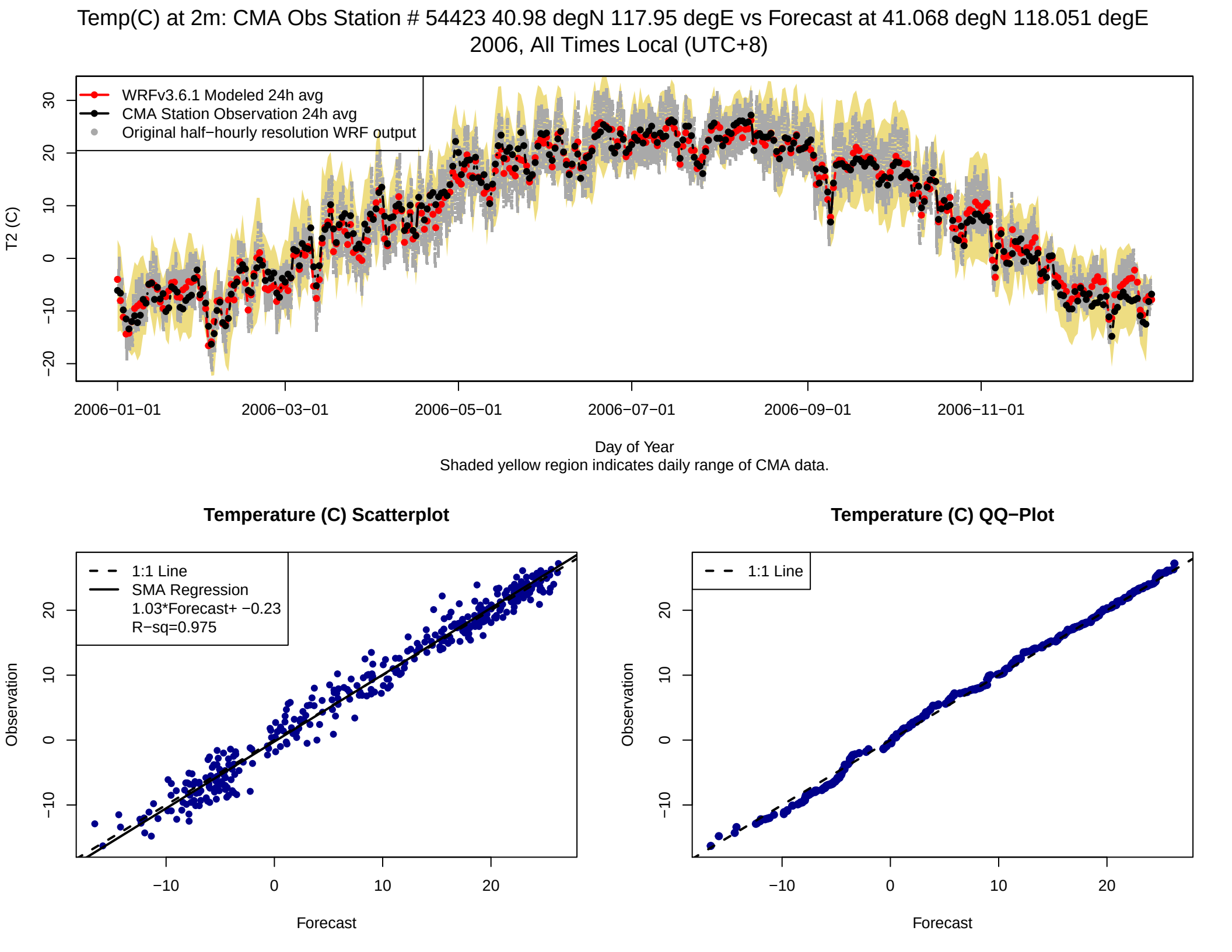
Shaded yellow region indicates daily range of CMA data. (No daily max available for SH)

Specific Humidity (mmol/mol) Scatterplot

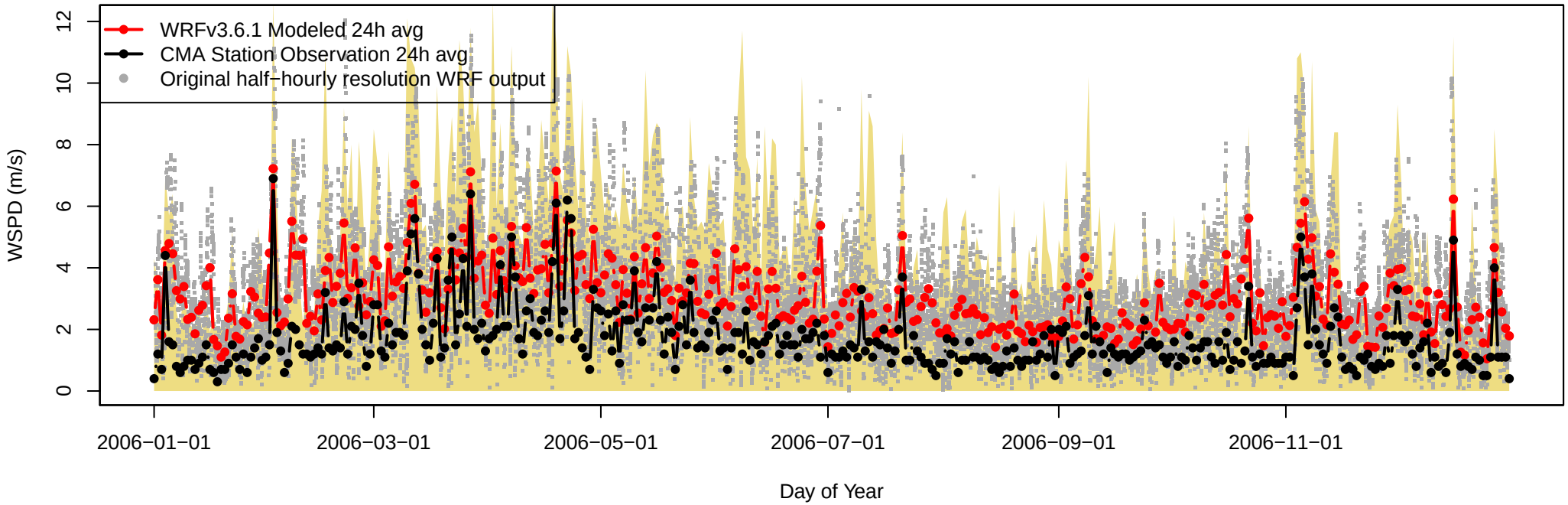


Specific Humidity (mmol/mol) QQ−Plot



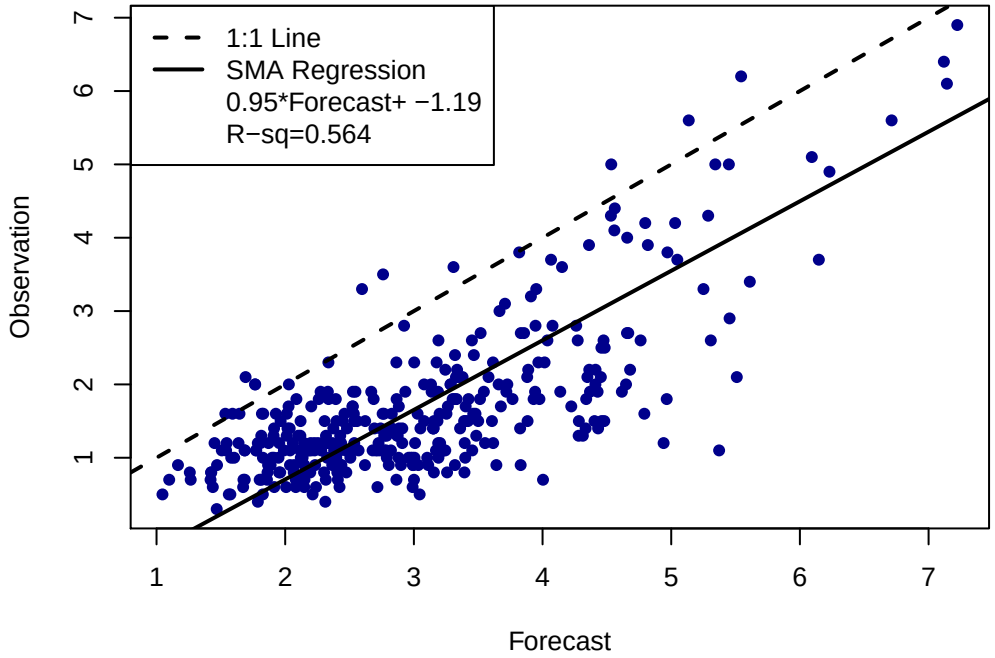

Temp(C) at 2m: CMA Obs Station # 54423 40.98 degN 117.95 degE vs Forecast at 41.068 degN 118.051 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
T2 (C)
30
20
10
0
−10
−20
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data.
Temperature (C) Scatterplot
1:1 Line
SMA Regression
1.03*Forecast+ −0.23
R−sq=0.975
Observation
Forecast
Temperature (C) QQ−Plot
1:1 Line
Observation
Forecast

Wind Speed (m/s) at 10m: CMA Obs Station # 54423 40.98 degN 117.95 degE vs Forecast at 41.068 degN 118.051 degE
2006, All Times Local (UTC+8)

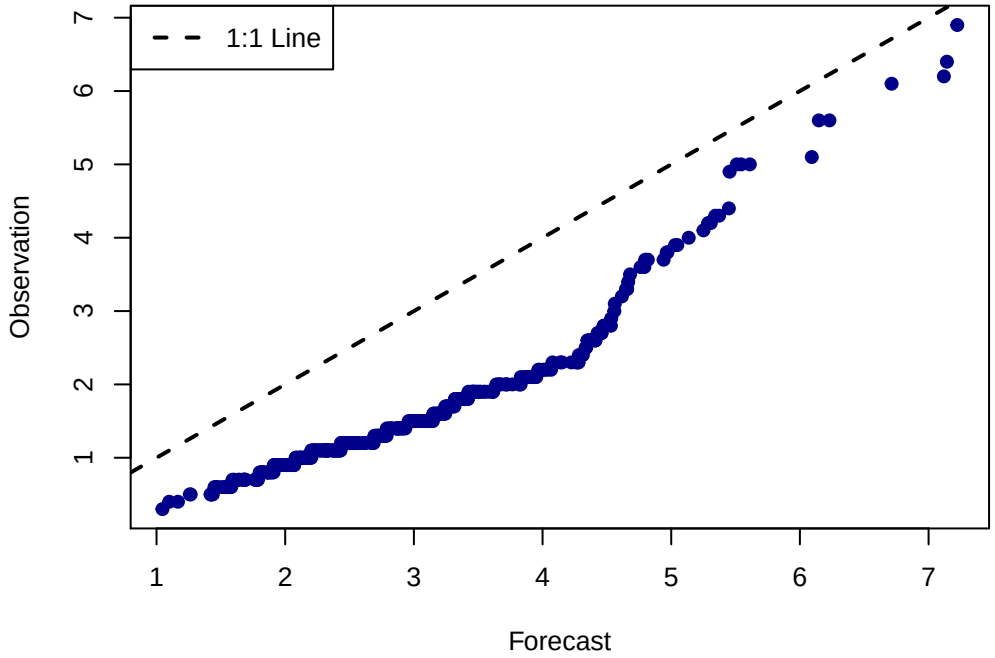


Shaded yellow region indicates daily range of CMA data. Min daily WSPD unavailable but assumed (and set at) 0.

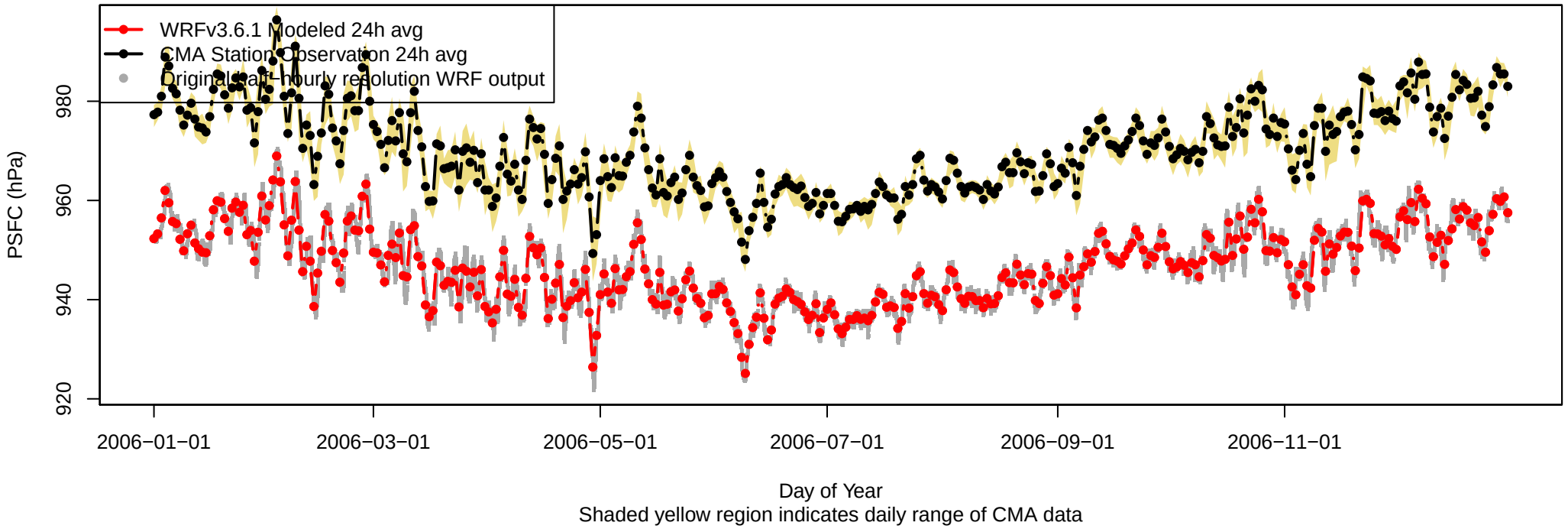
Wind Speed (m/s) Scatterplot

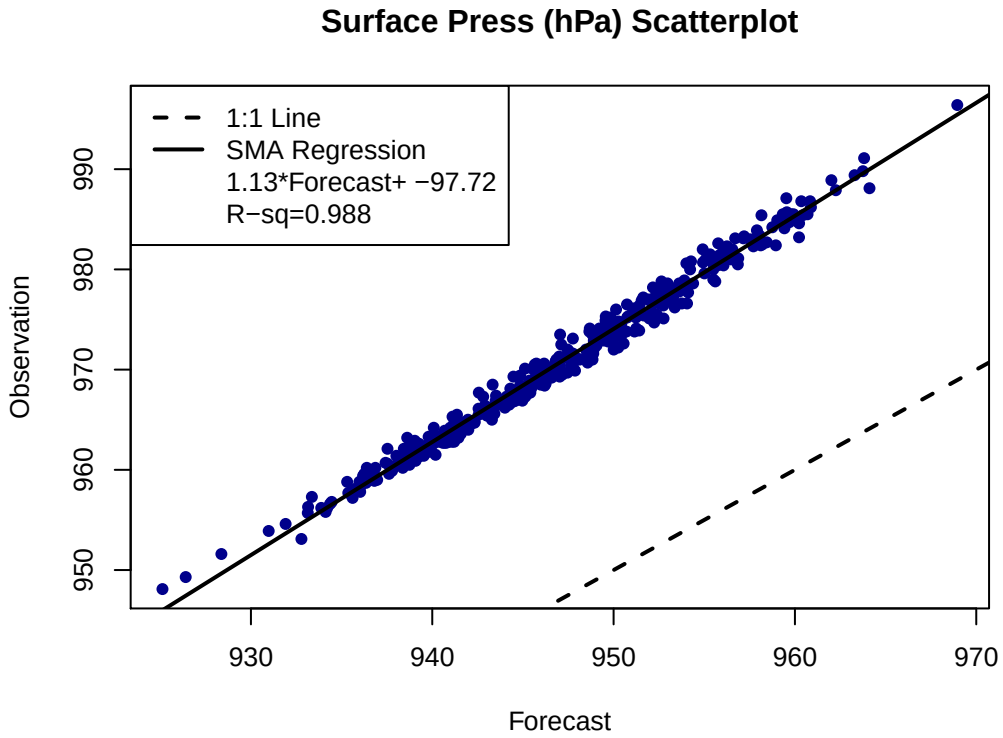


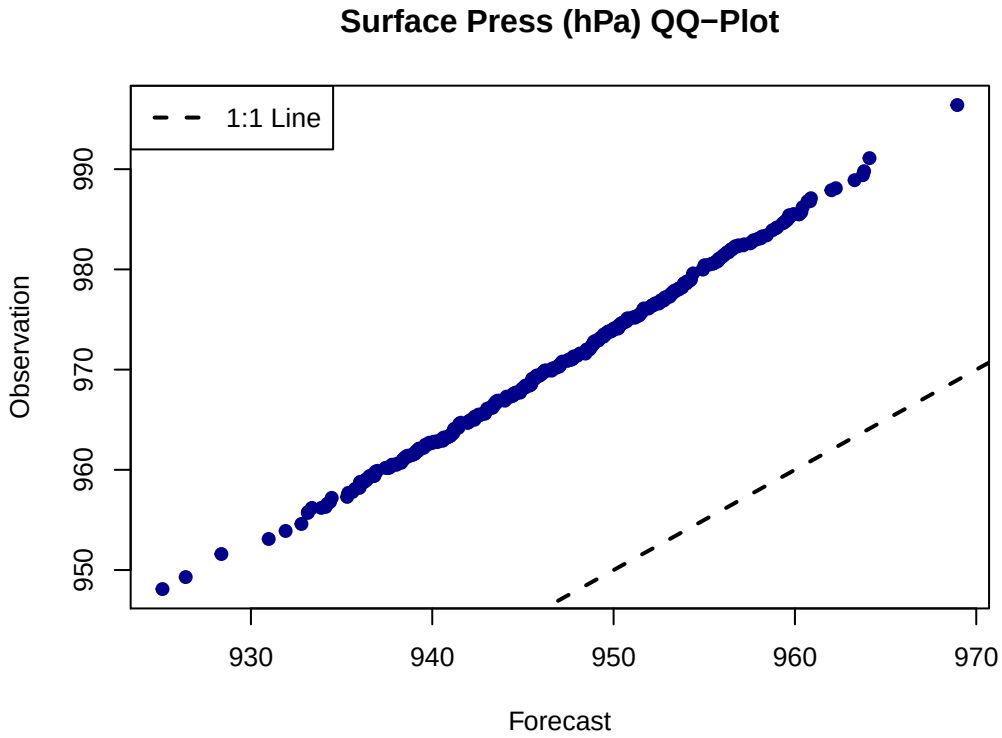
Wind Speed (m/s) QQ−Plot



Surface Press (hPa): CMA Obs Station # 54423 40.98 degN 117.95 degE vs Forecast at 41.068 degN 118.051 degE
2006, All Times Local (UTC+8)

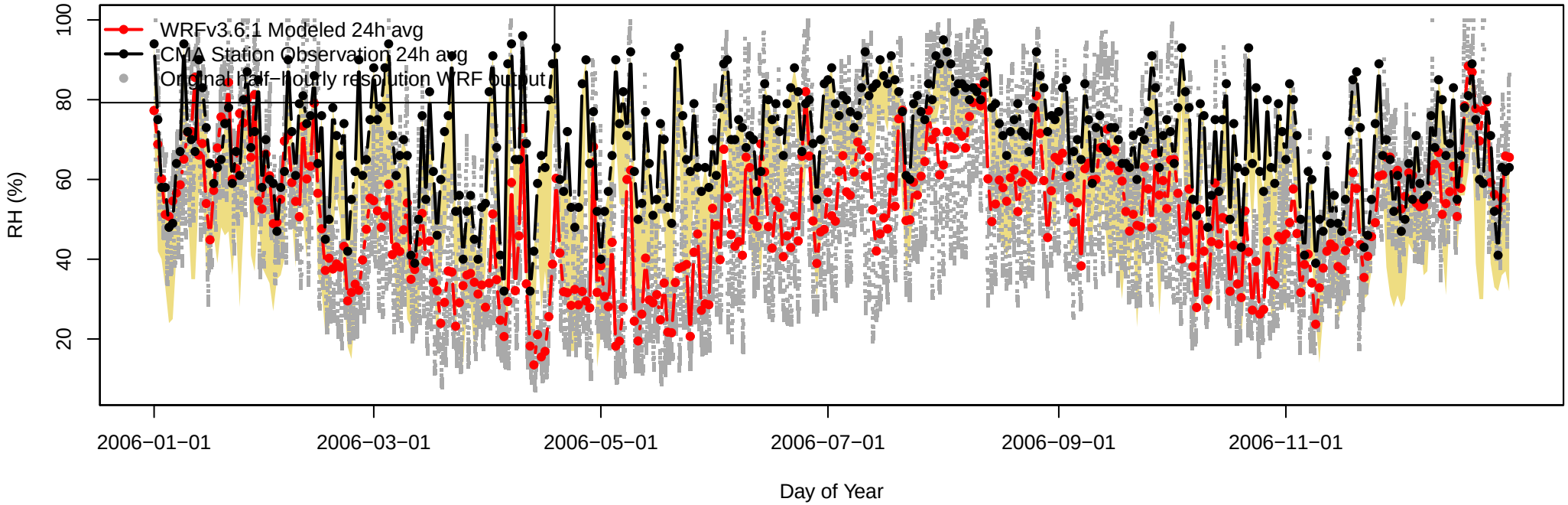






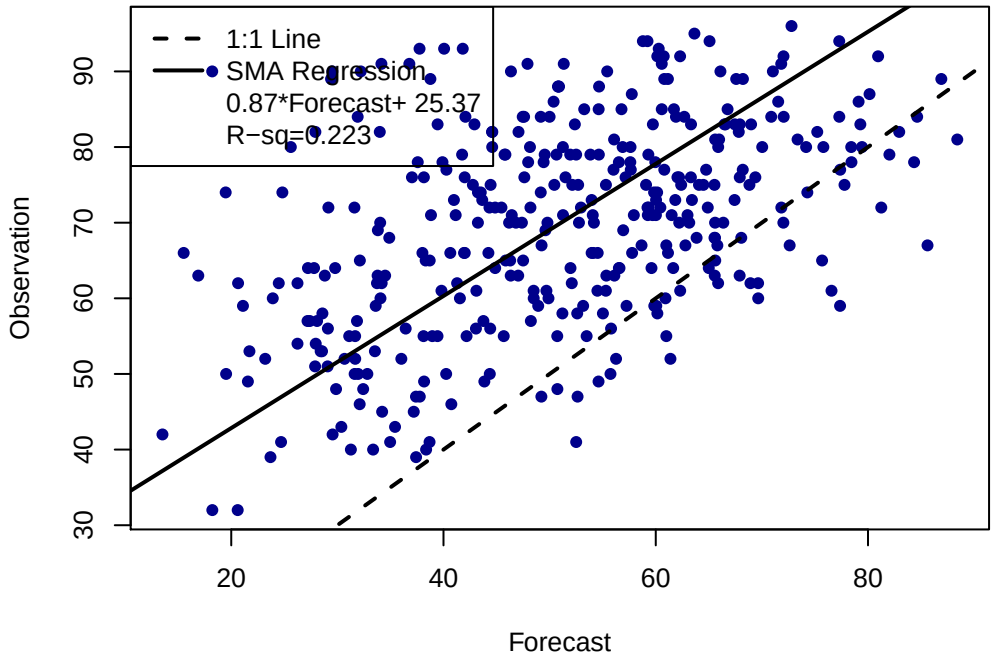
CMA Obs Station # 54471 40.65 degN 122.17 degE
vs Forecast at 43.639 degN 122.426 degE
2006, All Times Local (UTC+8)

Surface RH(%): CMA Obs Station # 54471 40.65 degN 122.17 degE vs 2m Forecast at 43.639 degN 122.426 degE
2006, All Times Local (UTC+8)

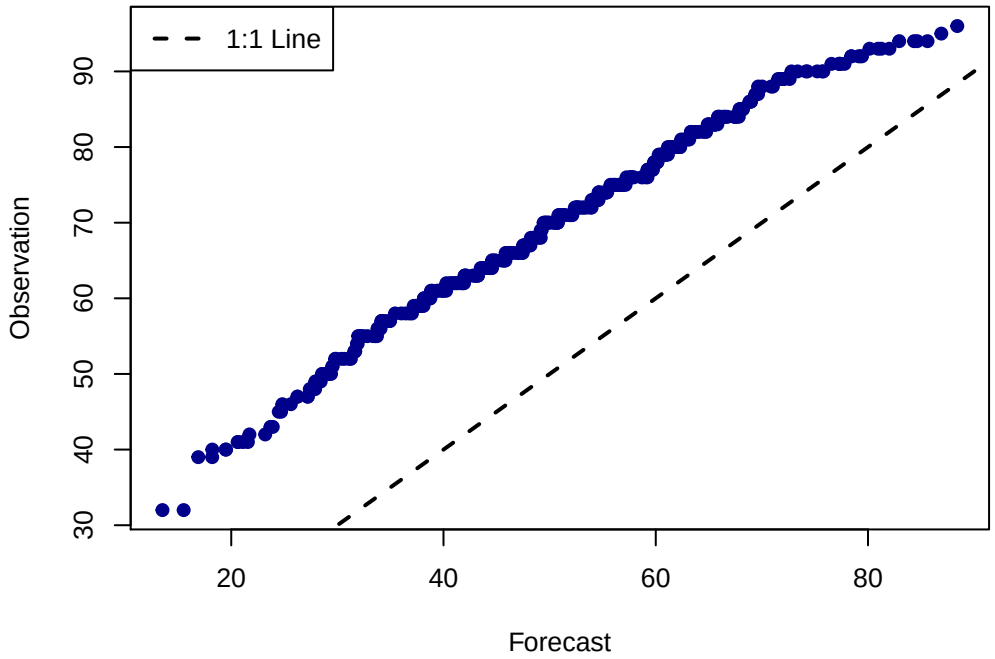


Shaded yellow region indicates daily range of CMA data. (No daily max available for RH%)

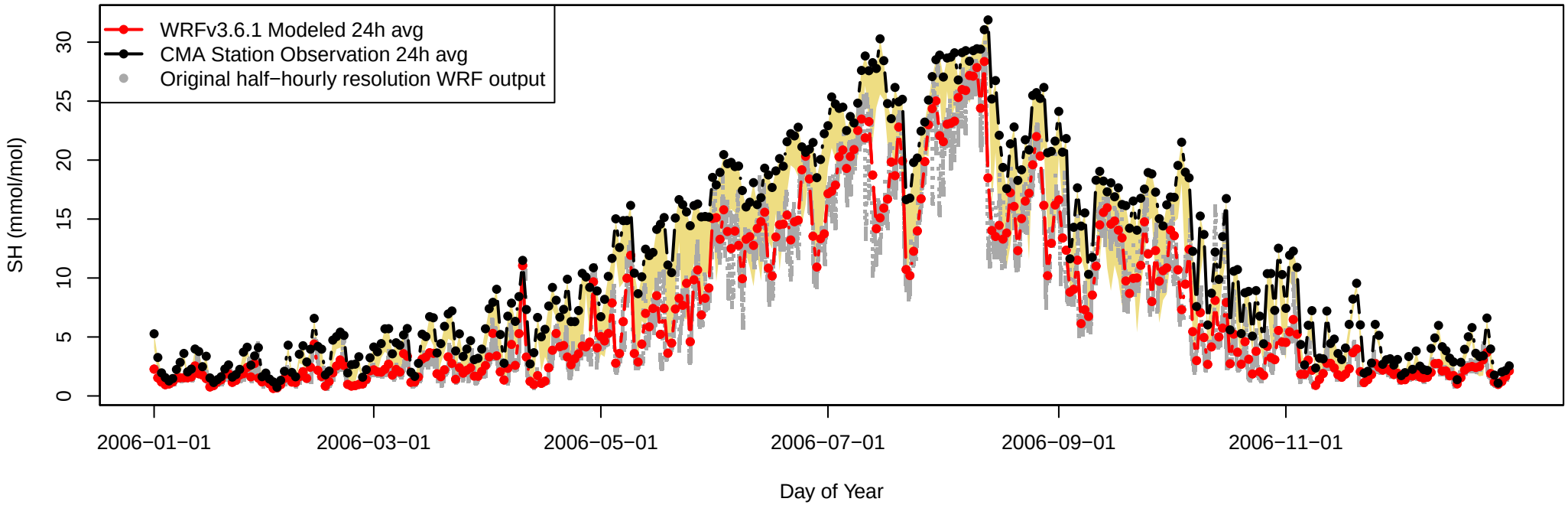
Relative Humidity (%) Scatterplot



Relative Humidity (%) QQ−Plot

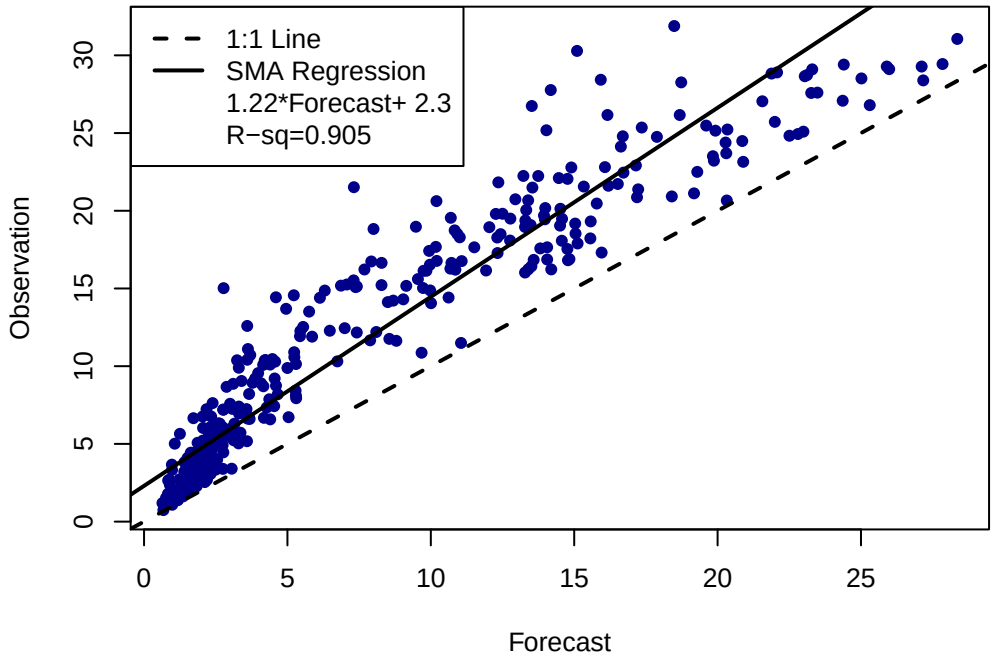


SH(mmol/mol) at 2m: CMA Obs Station # 54471 40.65 degN 122.17 degE vs Forecast at 43.639 degN 122.426 degE
2006 All Times Local (UTC+8)

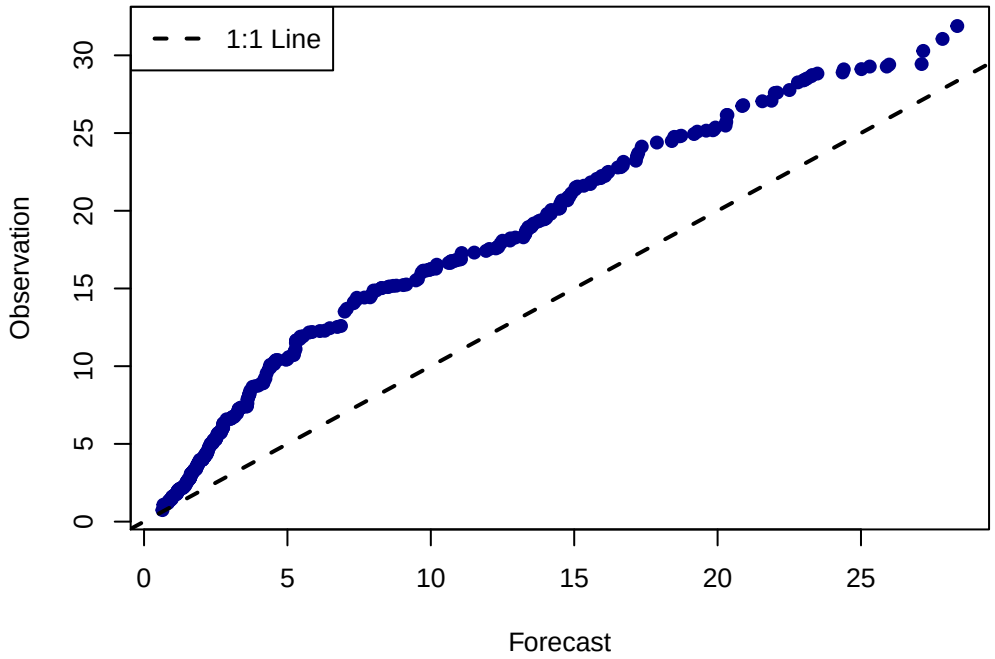


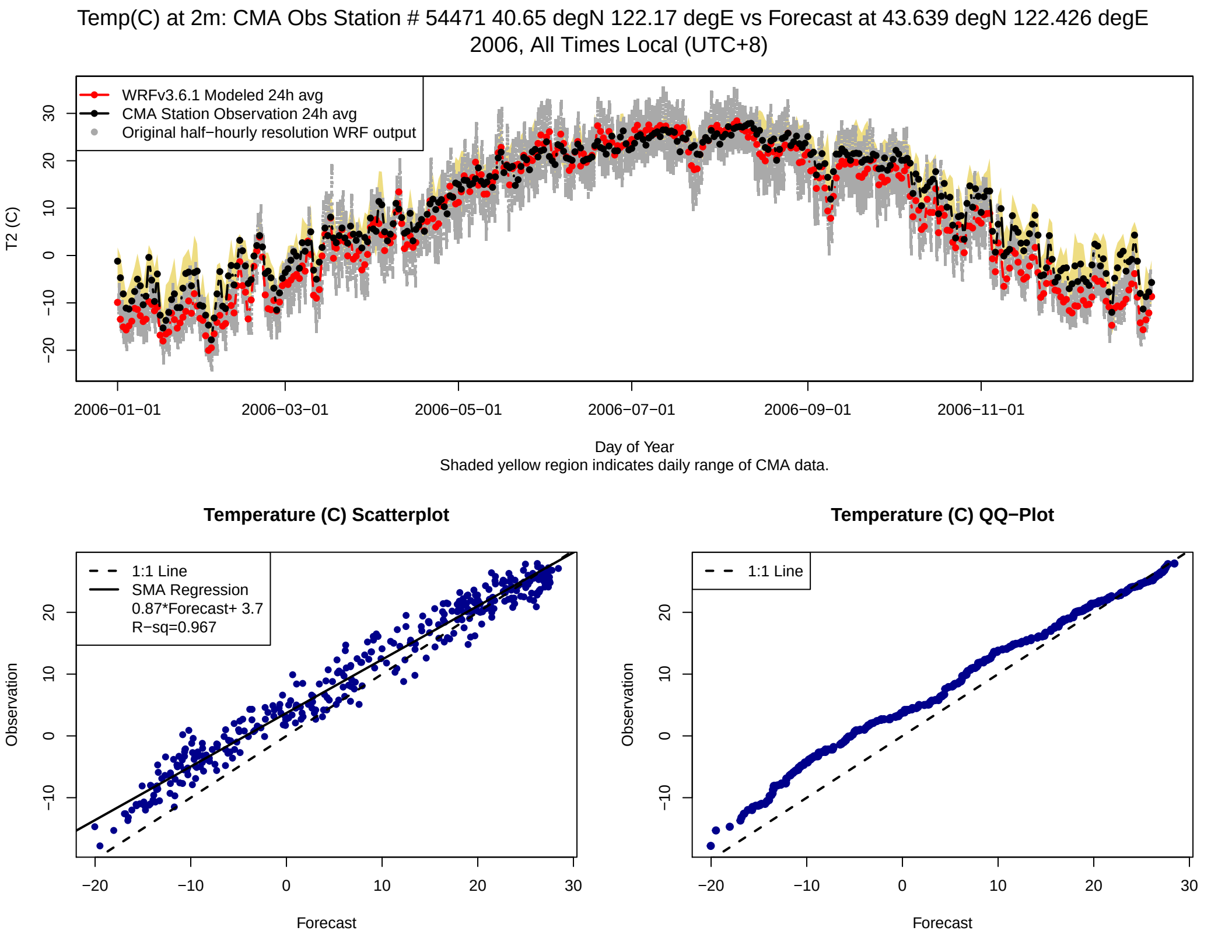
Shaded yellow region indicates daily range of CMA data. (No daily max available for SH)

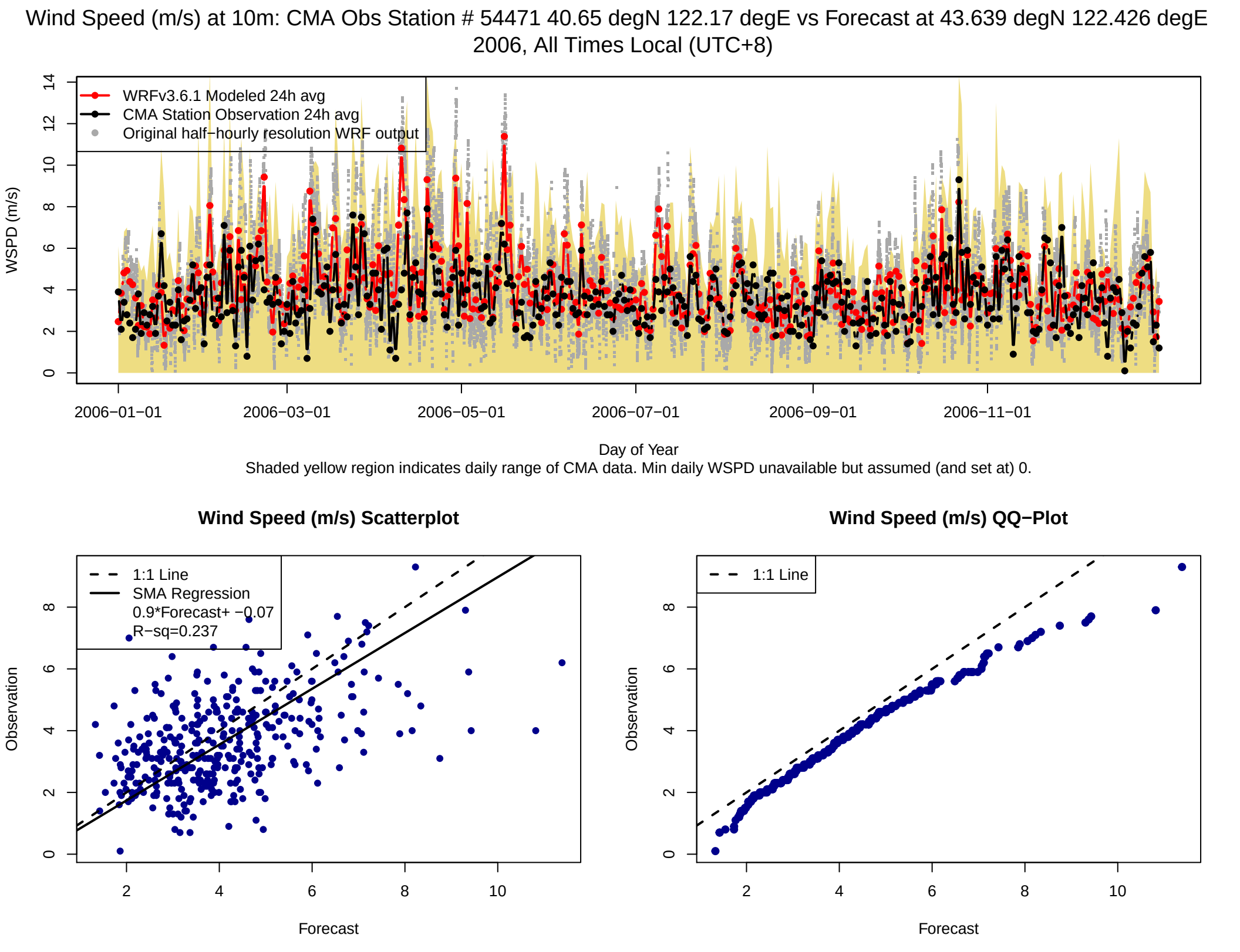
Specific Humidity (mmol/mol) Scatterplot

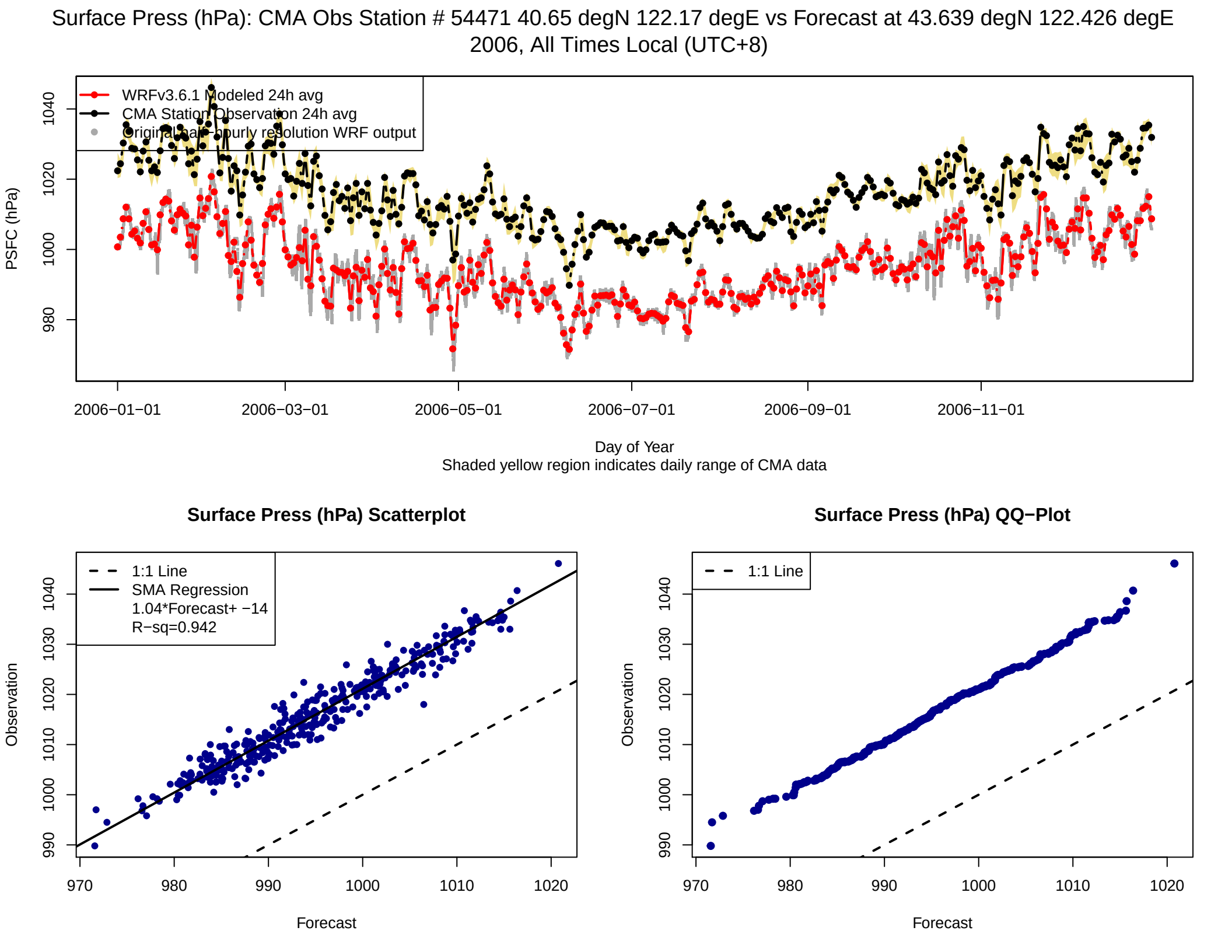


Specific Humidity (mmol/mol) QQ−Plot

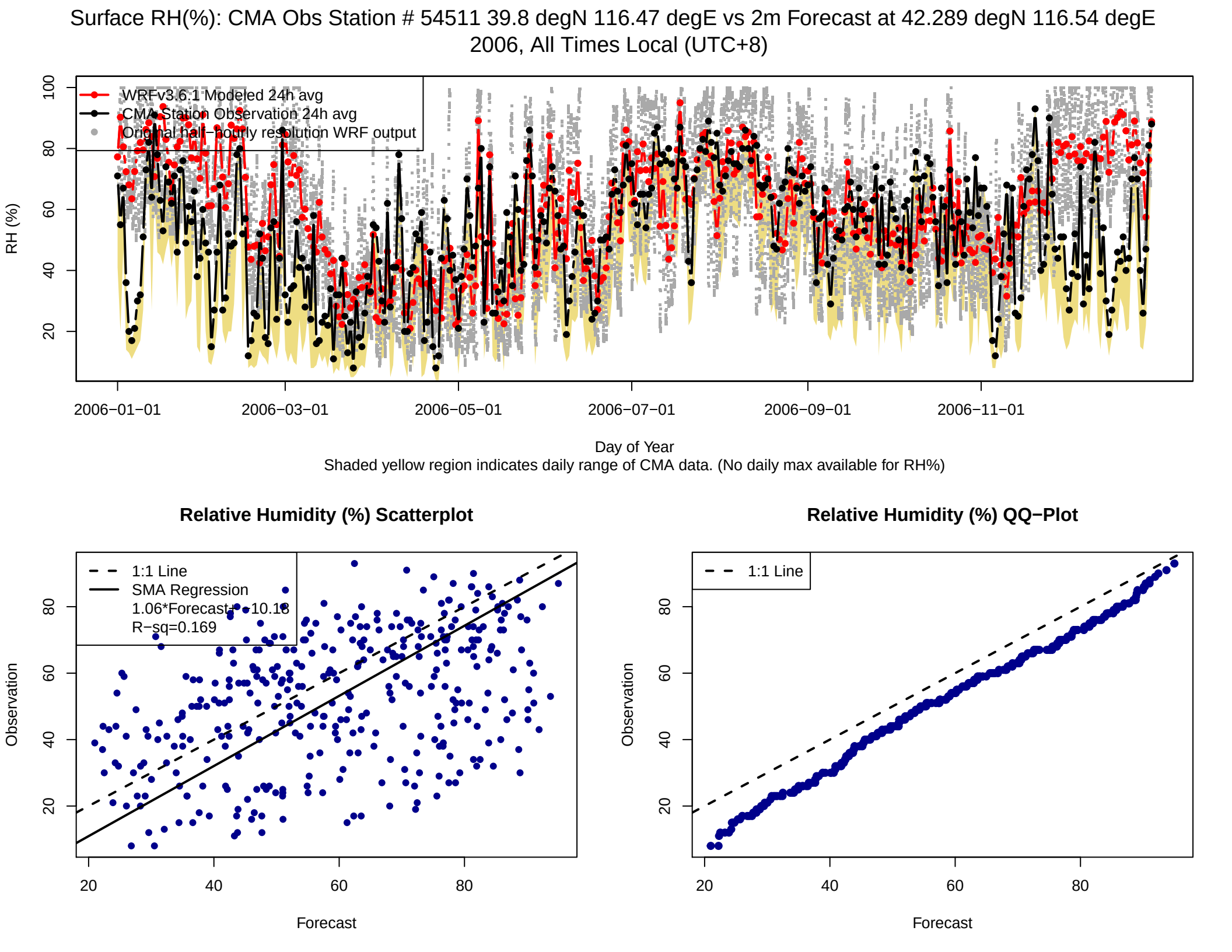


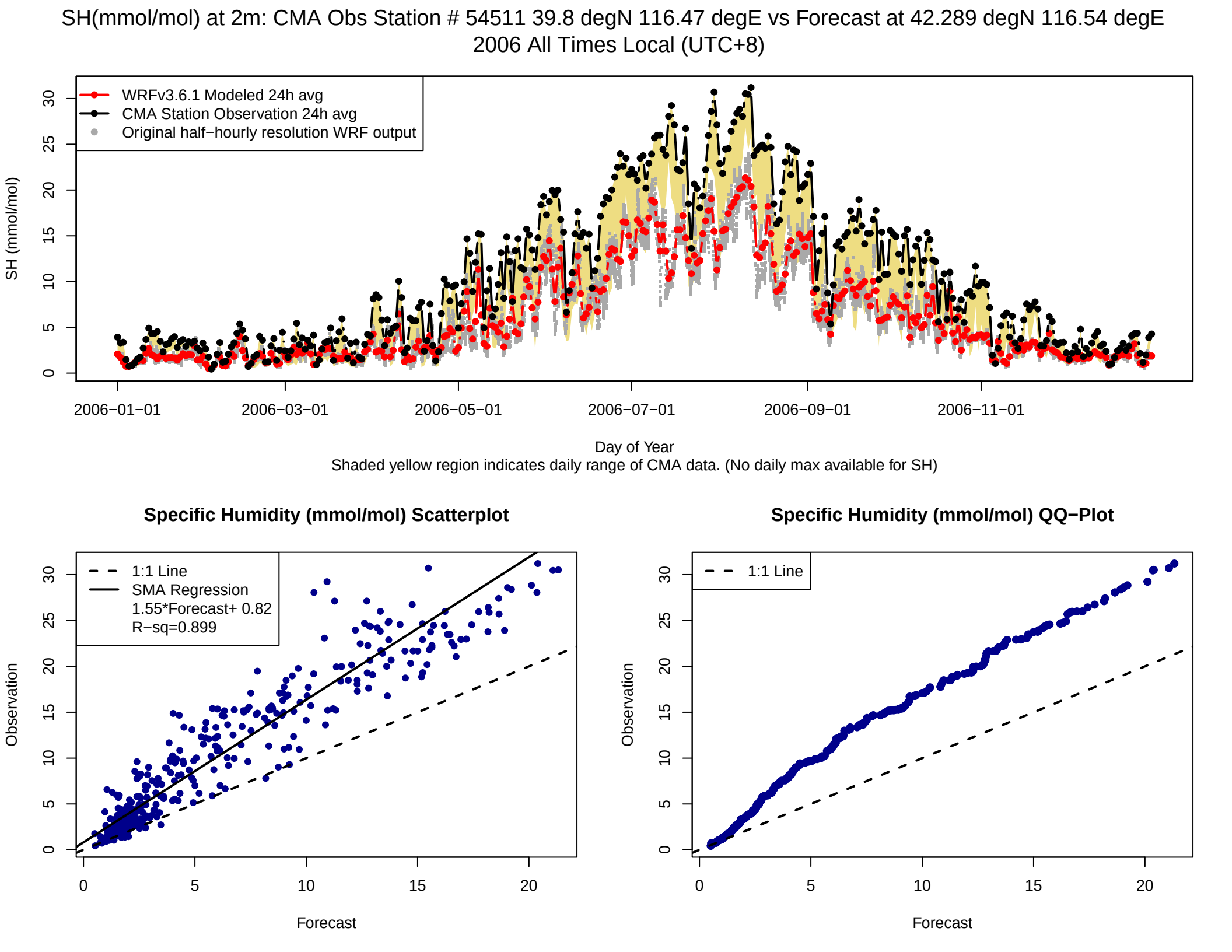

Temp(C) at 2m: CMA Obs Station # 54471 40.65 degN 122.17 degE vs Forecast at 43.639 degN 122.426 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
T2 (C)
30
20
10
0
−10
−20
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data.
Temperature (C) Scatterplot
1:1 Line
SMA Regression
0.87*Forecast+ 3.7
R−sq=0.967
Observation
Forecast
−20
−10
0
10
20
30
Temperature (C) QQ−Plot
1:1 Line
Observation
Forecast


Wind Speed (m/s) at 10m: CMA Obs Station # 54471 40.65 degN 122.17 degE vs Forecast at 43.639 degN 122.426 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
WSPD (m/s)
0
2
4
6
8
10
12
14
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data. Min daily WSPD unavailable but assumed (and set at) 0.
Wind Speed (m/s) Scatterplot
1:1 Line
SMA Regression
0.9*Forecast+ −0.07
R−sq=0.237
Observation
Forecast
Wind Speed (m/s) QQ−Plot
1:1 Line
Observation
Forecast

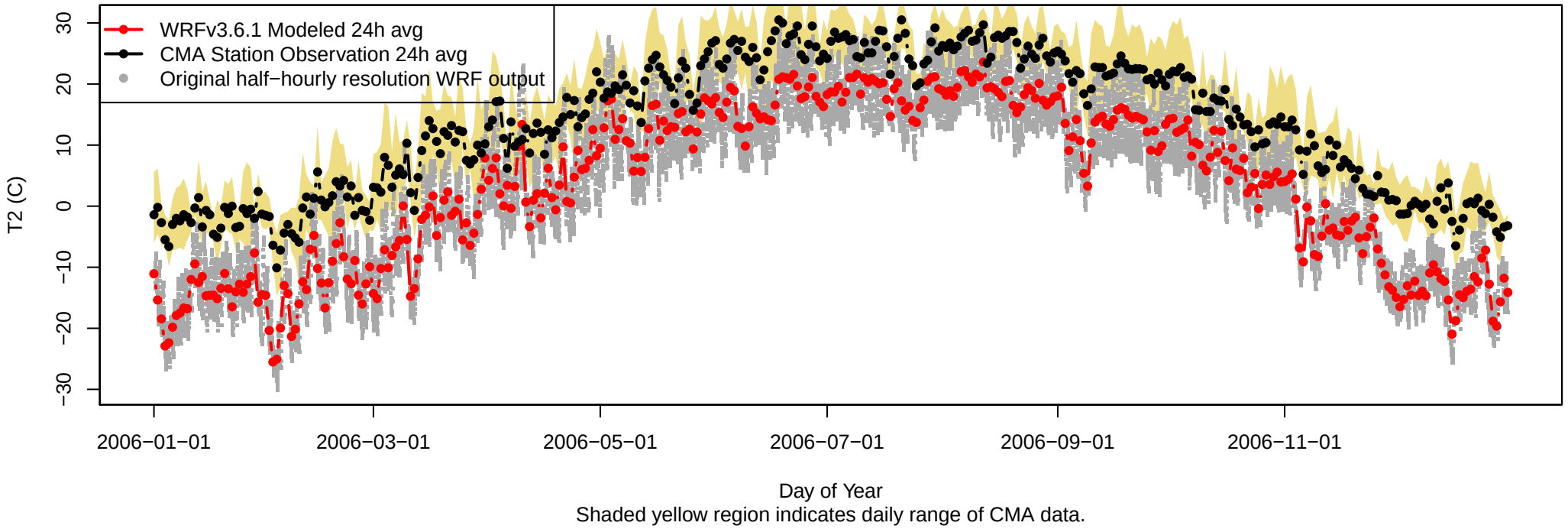

Surface Press (hPa): CMA Obs Station # 54471 40.65 degN 122.17 degE vs Forecast at 43.639 degN 122.426 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half-hourly resolution WRF output
PSFC (hPa)
1040
1020
1000
980
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data
Surface Press (hPa) Scatterplot
1:1 Line
SMA Regression
1.04*Forecast+ −14
R−sq=0.942
Observation
1040
1030
1020
1010
1000
990
970
980
990
1000
1010
1020
Forecast
Surface Press (hPa) QQ−Plot
1:1 Line
Observation
1040
1030
1020
1010
1000
990
970
980
990
1000
1010
1020
Forecast

CMA Obs Station # 54511 39.8 degN 116.47 degE
vs Forecast at 42.289 degN 116.54 degE
2006, All Times Local (UTC+8)


Surface RH(%): CMA Obs Station # 54511 39.8 degN 116.47 degE vs 2m Forecast at 42.289 degN 116.54 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
RH (%)
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data. (No daily max available for RH%)
Relative Humidity (%) Scatterplot
1:1 Line
SMA Regression
1.06*Forecast+−10.18
R−sq=0.169
Observation
Forecast
Relative Humidity (%) QQ−Plot
1:1 Line
Observation
Forecast

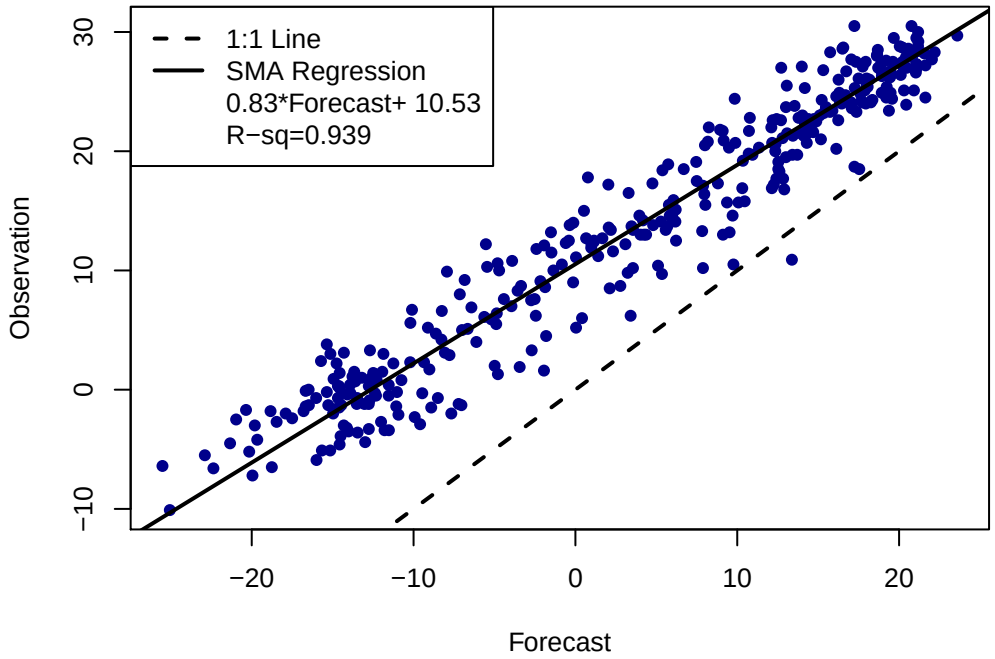

SH(mmol/mol) at 2m: CMA Obs Station # 54511 39.8 degN 116.47 degE vs Forecast at 42.289 degN 116.54 degE
2006 All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
SH (mmol/mol)
0
5
10
15
20
25
30
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data. (No daily max available for SH)
Specific Humidity (mmol/mol) Scatterplot
1:1 Line
SMA Regression
1.55*Forecast+ 0.82
R−sq=0.899
Observation
Forecast
0
5
10
15
20
Specific Humidity (mmol/mol) QQ−Plot
1:1 Line
Observation
Forecast

Temp(C) at 2m: CMA Obs Station # 54511 39.8 degN 116.47 degE vs Forecast at 42.289 degN 116.54 degE
2006, All Times Local (UTC+8)

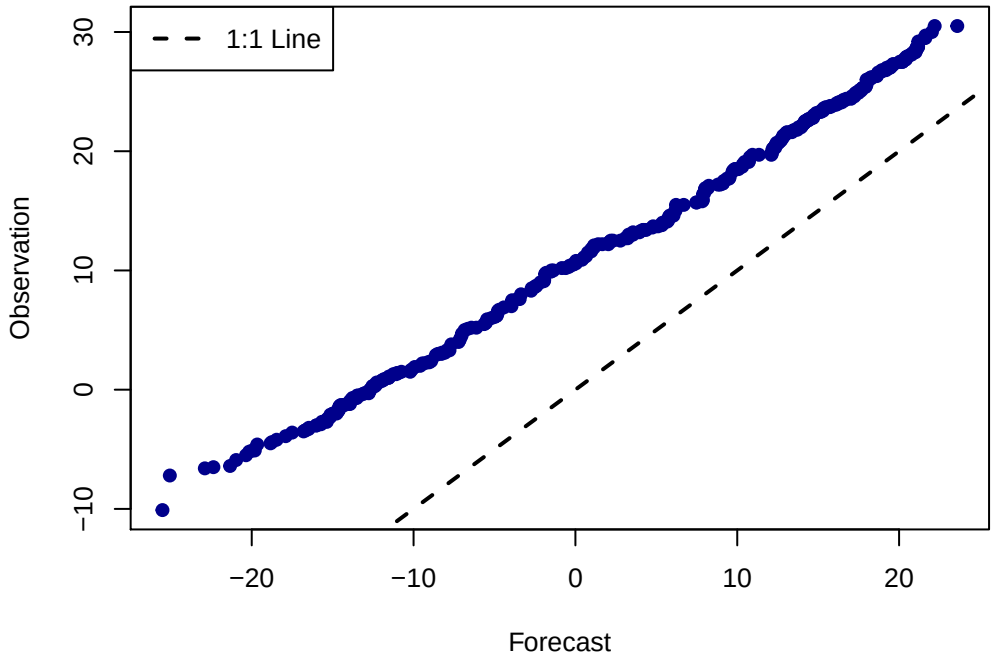


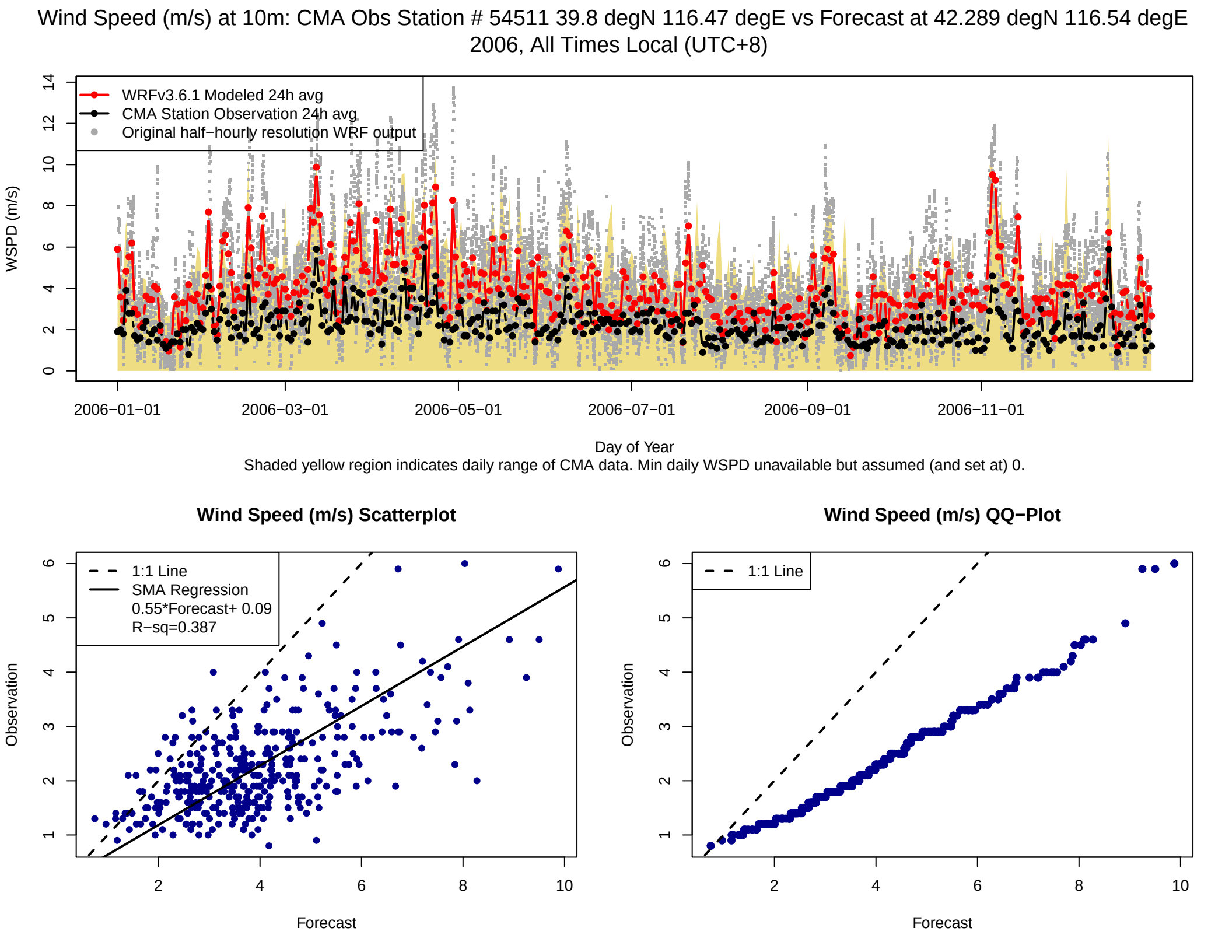
Shaded yellow region indicates daily range of CMA data.

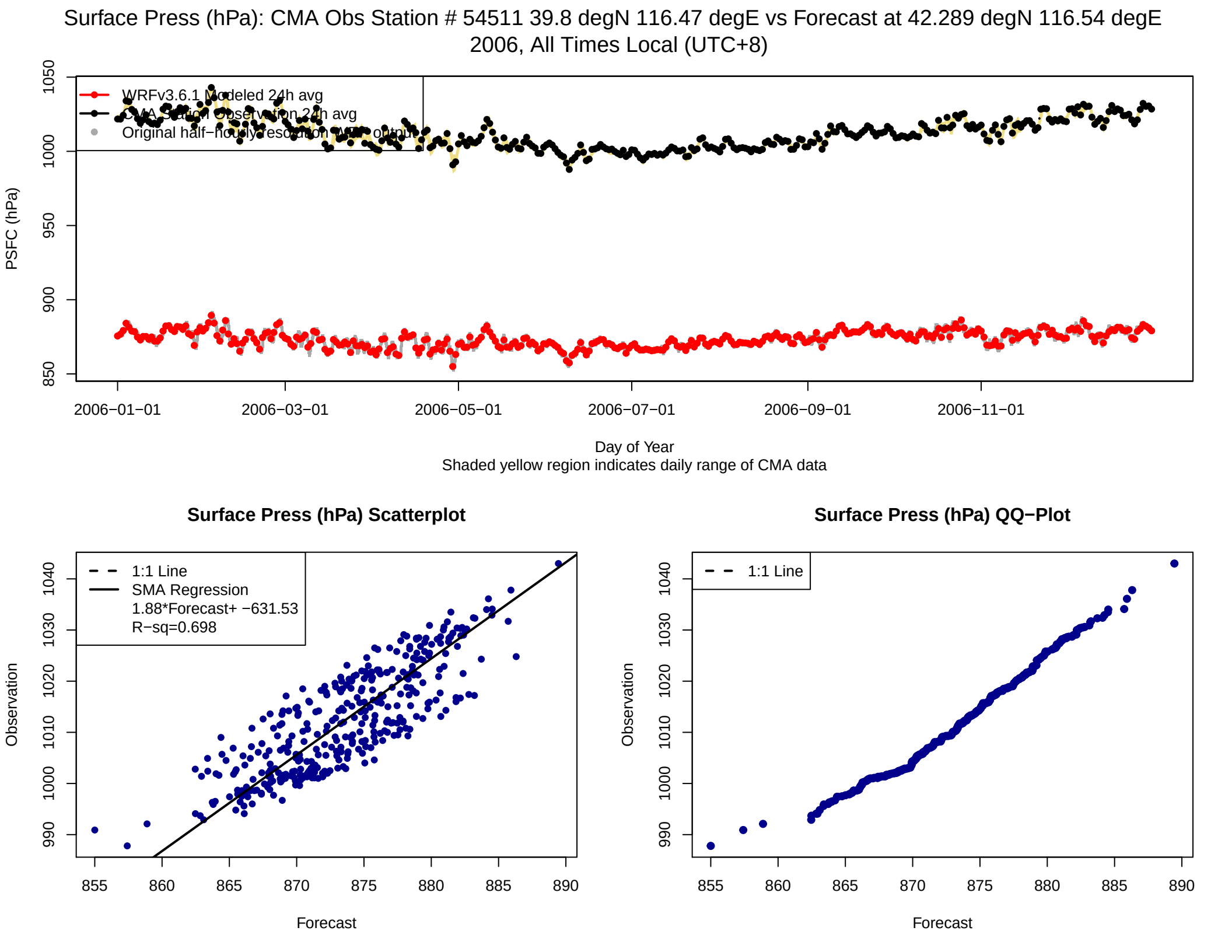
Temperature (C) Scatterplot



Temperature (C) QQ−Plot

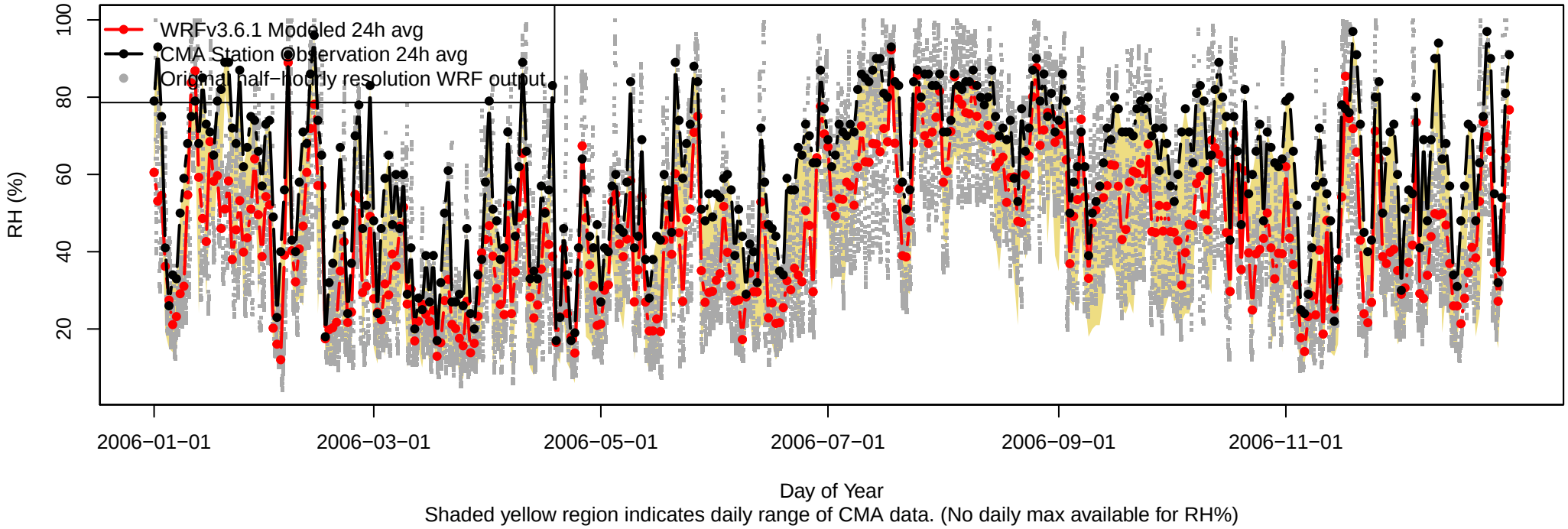



Wind Speed (m/s) at 10m: CMA Obs Station # 54511 39.8 degN 116.47 degE vs Forecast at 42.289 degN 116.54 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
WSPD (m/s)
0
2
4
6
8
10
12
14
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data. Min daily WSPD unavailable but assumed (and set at) 0.
Wind Speed (m/s) Scatterplot
1:1 Line
SMA Regression
0.55*Forecast+ 0.09
R−sq=0.387
Observation
Forecast
1
2
3
4
5
6
2
4
6
8
10
Wind Speed (m/s) QQ−Plot
1:1 Line
Observation
Forecast


Surface Press (hPa): CMA Obs Station # 54511 39.8 degN 116.47 degE vs Forecast at 42.289 degN 116.54 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half-hourly resolution WRF output
PSFC (hPa)
1050
1000
950
900
850
2006-01-01
2006-03-01
2006-05-01
2006-07-01
2006-09-01
2006-11-01
Day of Year
Shaded yellow region indicates daily range of CMA data
Surface Press (hPa) Scatterplot
1:1 Line
SMA Regression
1.88*Forecast+ -631.53
R-sq=0.698
Observation
Forecast
1040
1030
1020
1010
1000
990
855
860
865
870
875
880
885
890
Surface Press (hPa) QQ-Plot
1:1 Line
Observation
Forecast

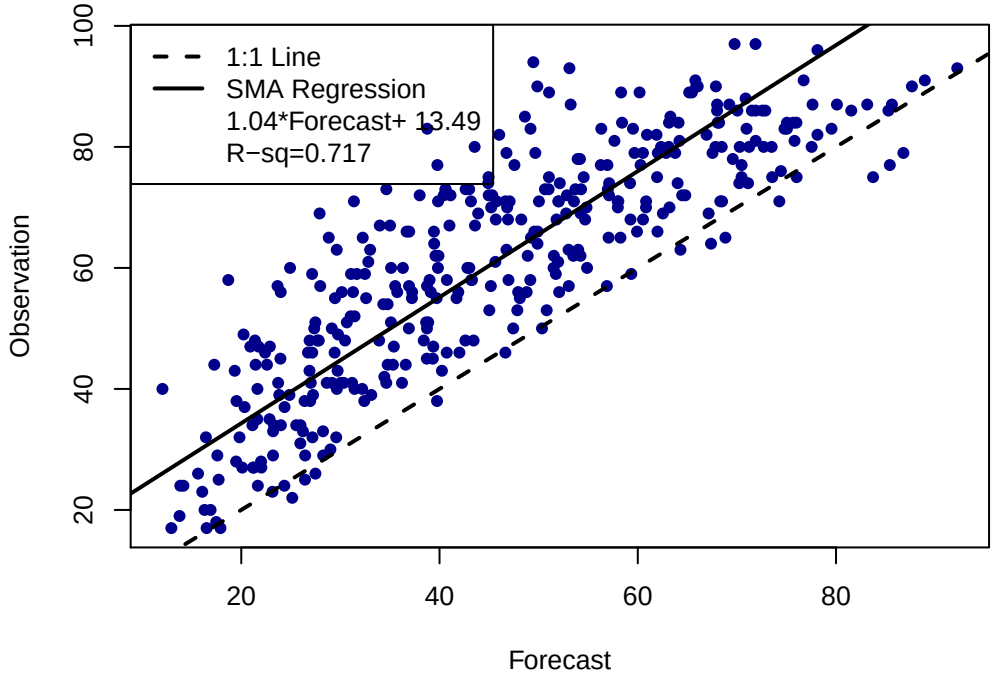
CMA Obs Station # 54527 39.08 degN 117.07 degE
vs Forecast at 39.199 degN 116.443 degE
2006, All Times Local (UTC+8)

Surface RH(%): CMA Obs Station # 54527 39.08 degN 117.07 degE vs 2m Forecast at 39.199 degN 116.443 degE
2006, All Times Local (UTC+8)

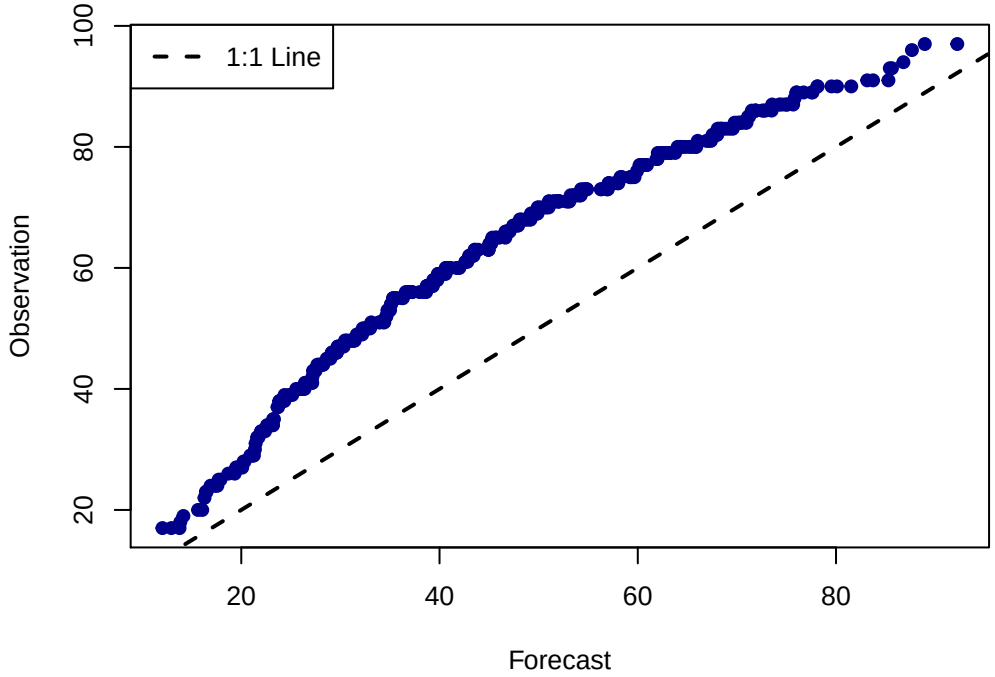


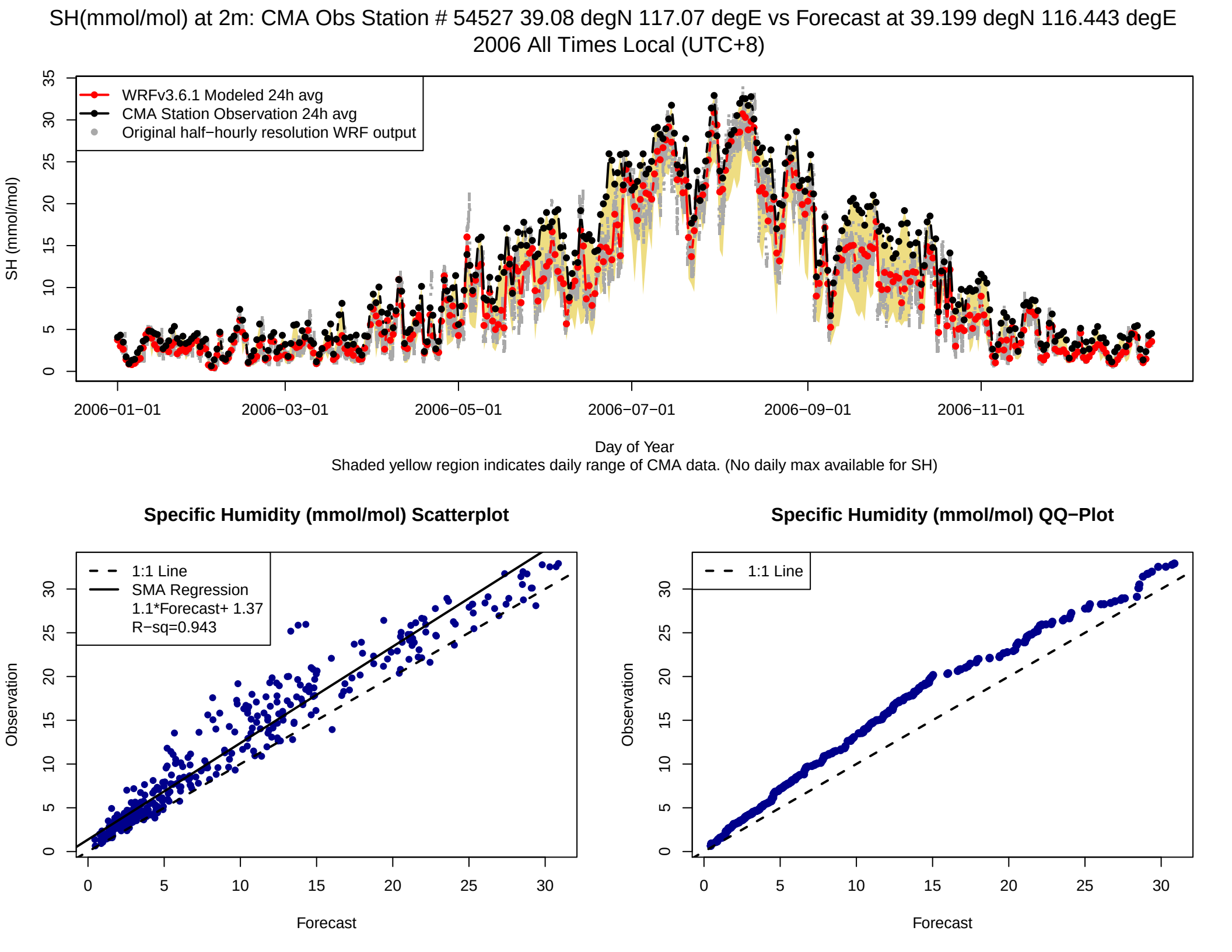
Shaded yellow region indicates daily range of CMA data. (No daily max available for RH%)

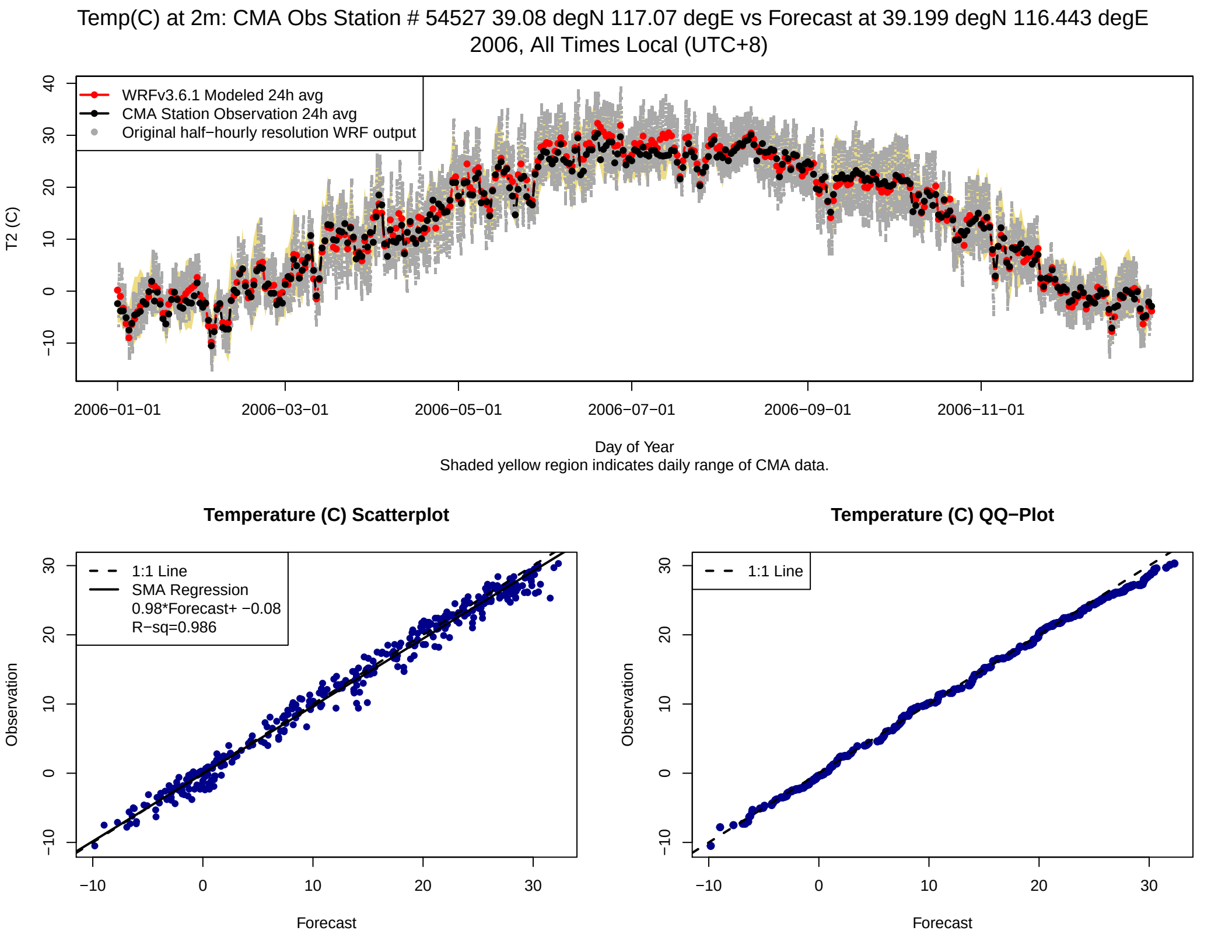
Relative Humidity (%) Scatterplot



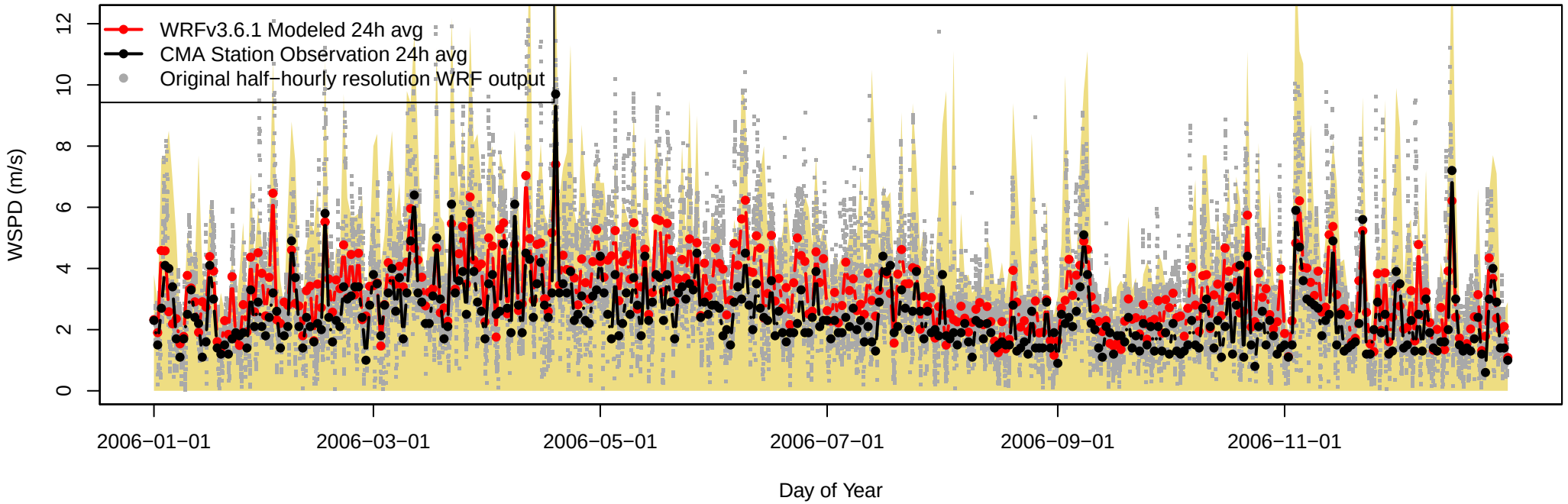
Relative Humidity (%) QQ−Plot




SH(mmol/mol) at 2m: CMA Obs Station # 54527 39.08 degN 117.07 degE vs Forecast at 39.199 degN 116.443 degE
2006 All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
SH (mmol/mol)
0
5
10
15
20
25
30
35
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data. (No daily max available for SH)
Specific Humidity (mmol/mol) Scatterplot
1:1 Line
SMA Regression
1.1*Forecast+ 1.37
R−sq=0.943
Observation
Forecast
Specific Humidity (mmol/mol) QQ−Plot
1:1 Line
Observation
Forecast

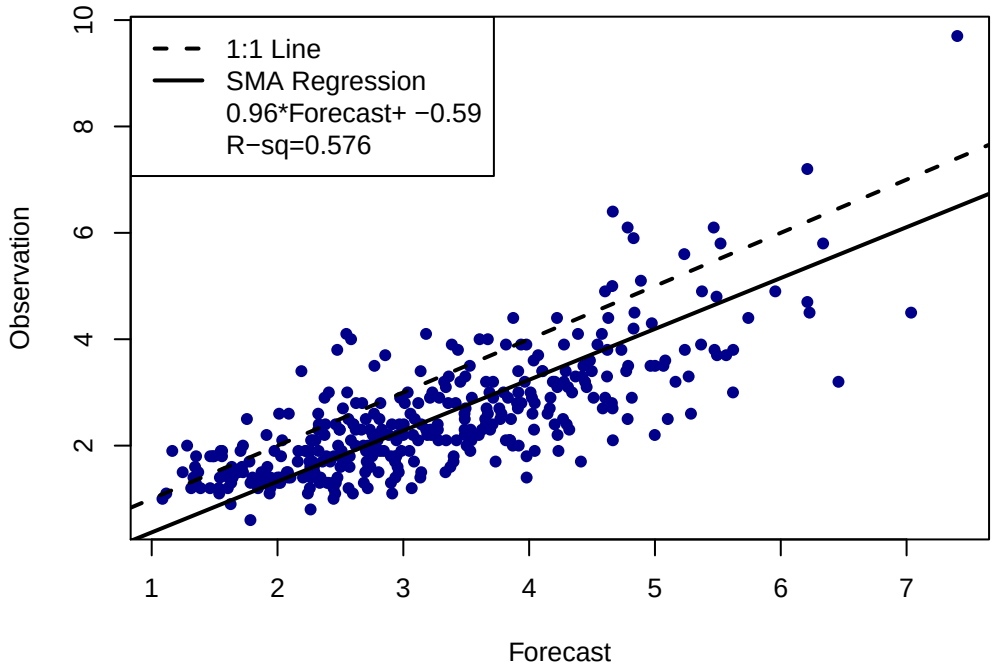

Temp(C) at 2m: CMA Obs Station # 54527 39.08 degN 117.07 degE vs Forecast at 39.199 degN 116.443 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
T2 (C)
40
30
20
10
0
−10
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data.
Temperature (C) Scatterplot
1:1 Line
SMA Regression
0.98*Forecast+ −0.08
R−sq=0.986
Observation
Forecast
−10
0
10
20
30
Temperature (C) QQ−Plot
1:1 Line
Observation
Forecast

Wind Speed (m/s) at 10m: CMA Obs Station # 54527 39.08 degN 117.07 degE vs Forecast at 39.199 degN 116.443 degE
2006, All Times Local (UTC+8)

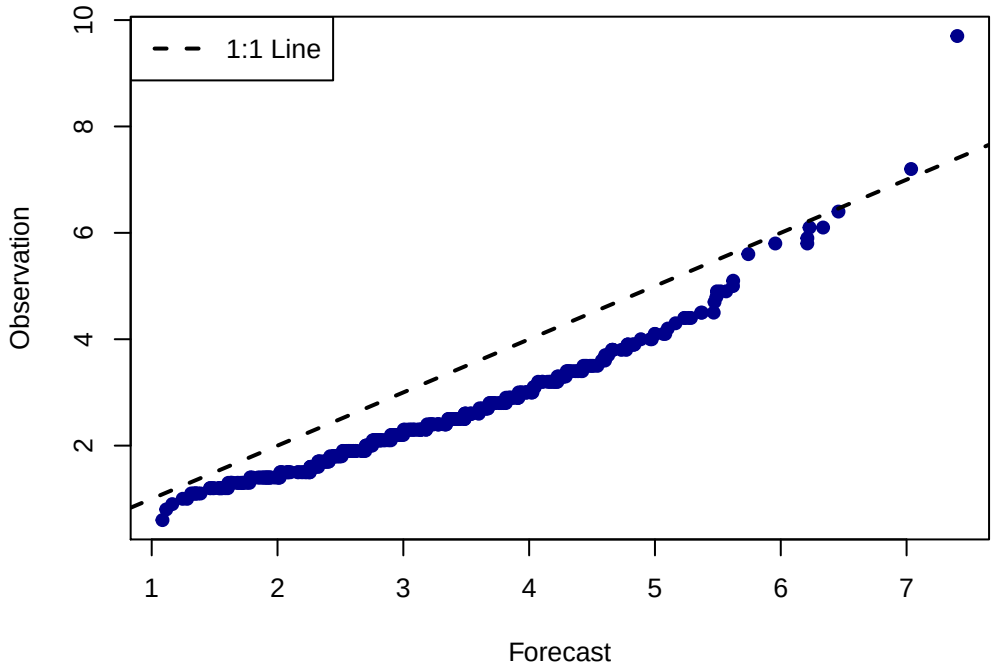


Shaded yellow region indicates daily range of CMA data. Min daily WSPD unavailable but assumed (and set at) 0.

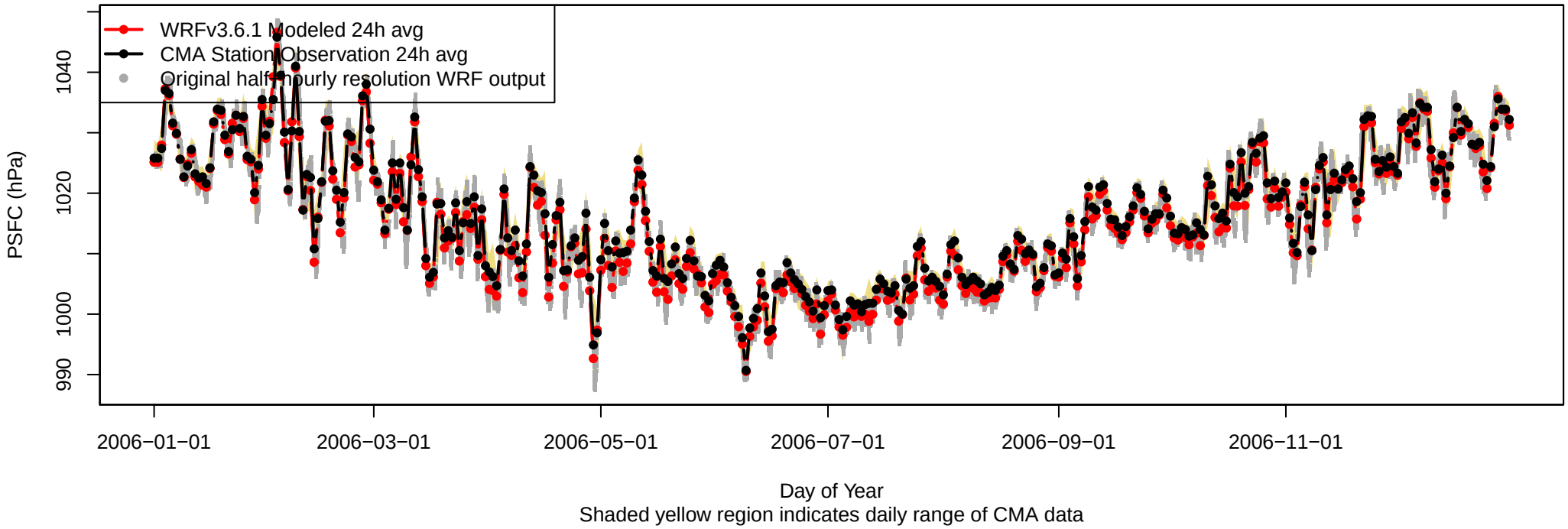
Wind Speed (m/s) Scatterplot

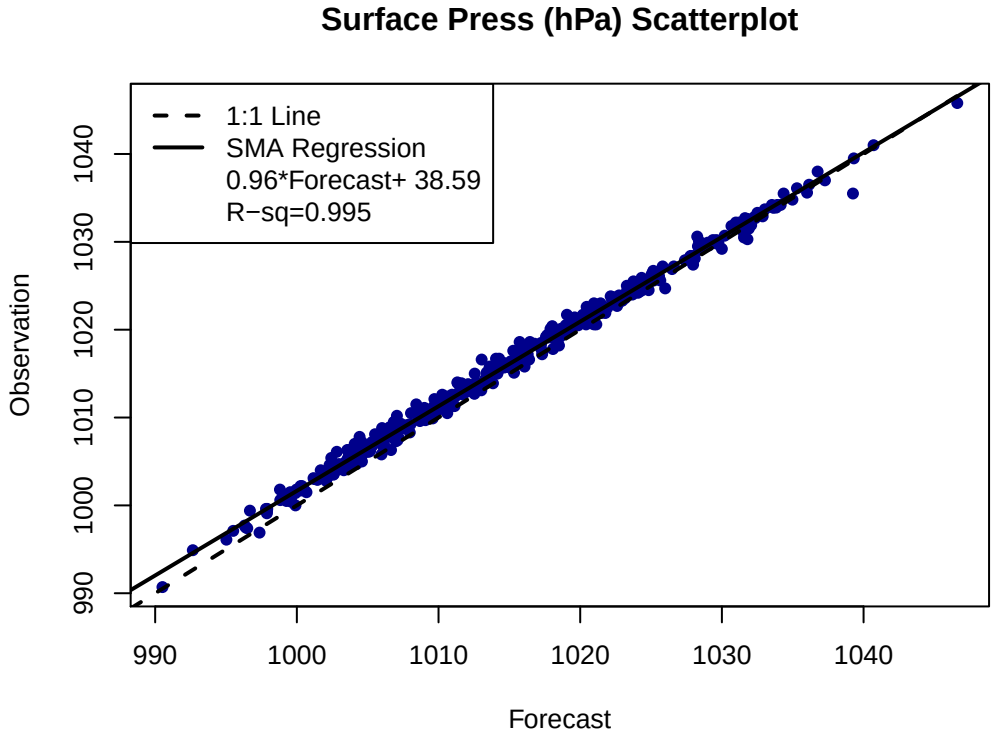


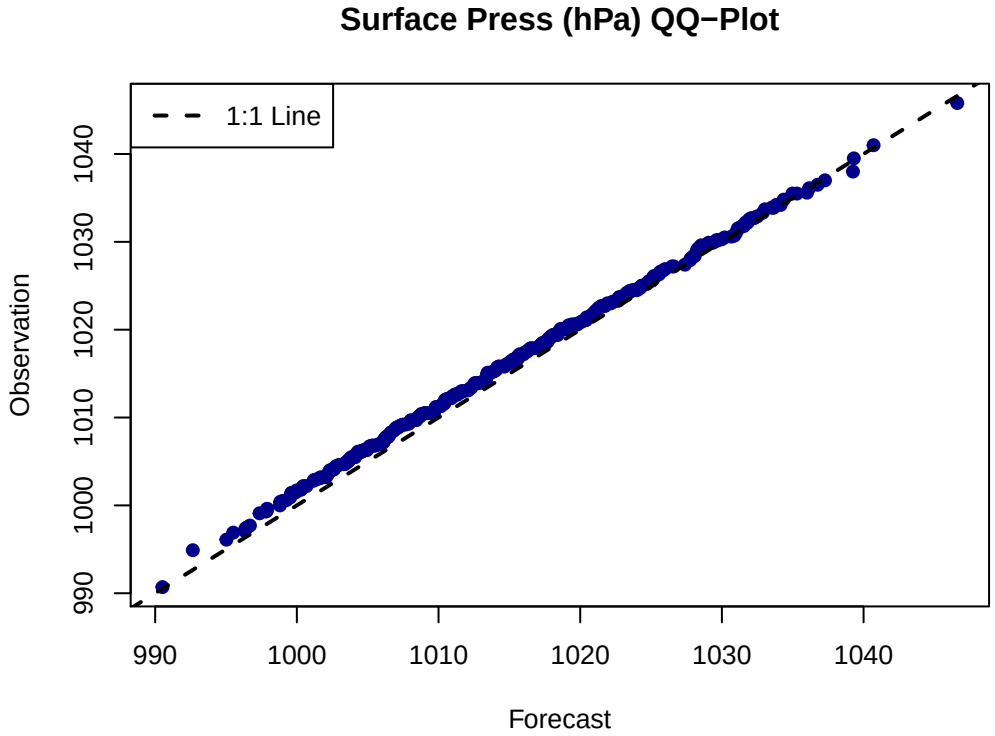
Wind Speed (m/s) QQ−Plot



Surface Press (hPa): CMA Obs Station # 54527 39.08 degN 117.07 degE vs Forecast at 39.199 degN 116.443 degE
2006, All Times Local (UTC+8)

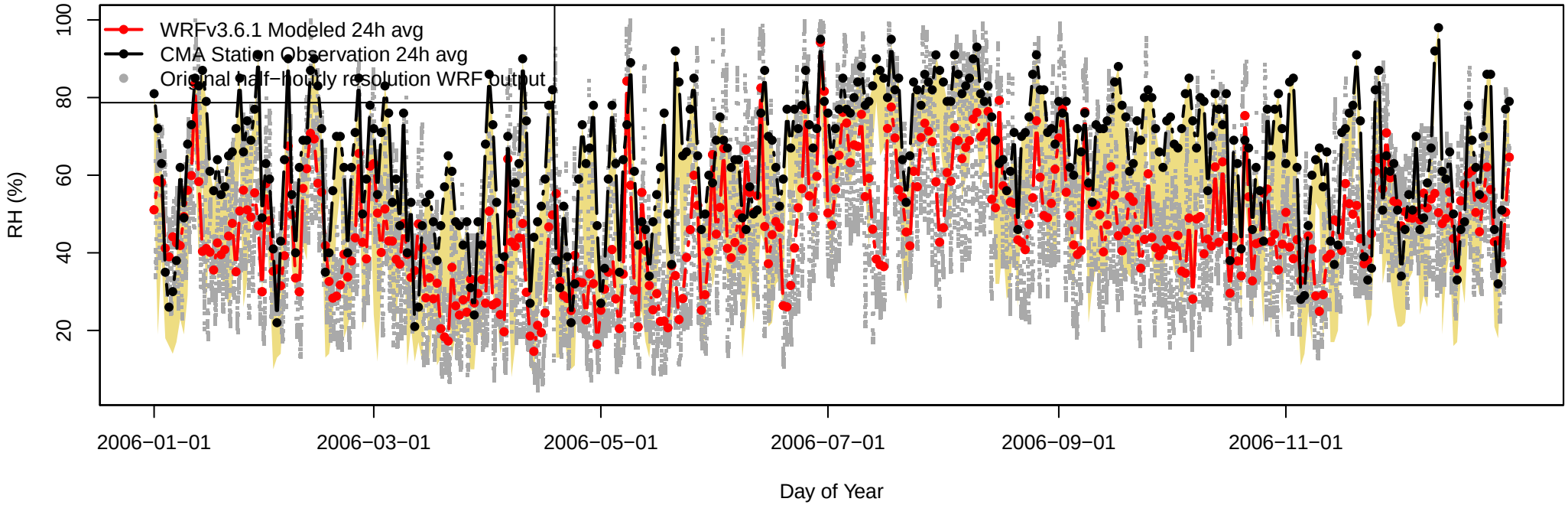






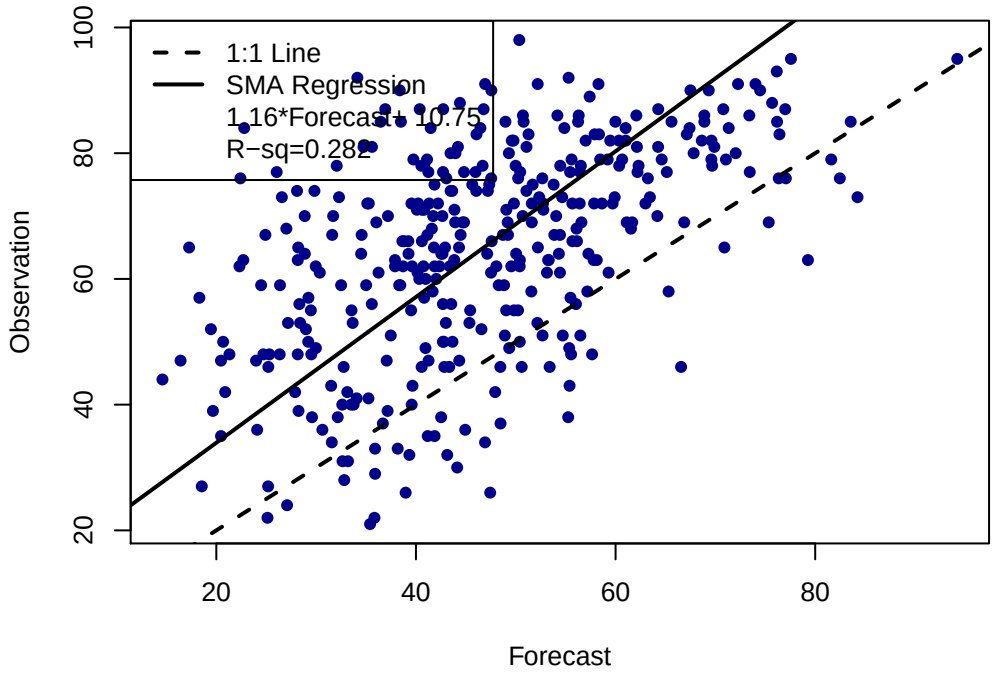
CMA Obs Station # 54539 39.43 degN 118.88 degE
vs Forecast at 42.353 degN 119.055 degE
2006, All Times Local (UTC+8)

Surface RH(%): CMA Obs Station # 54539 39.43 degN 118.88 degE vs 2m Forecast at 42.353 degN 119.055 degE
2006, All Times Local (UTC+8)

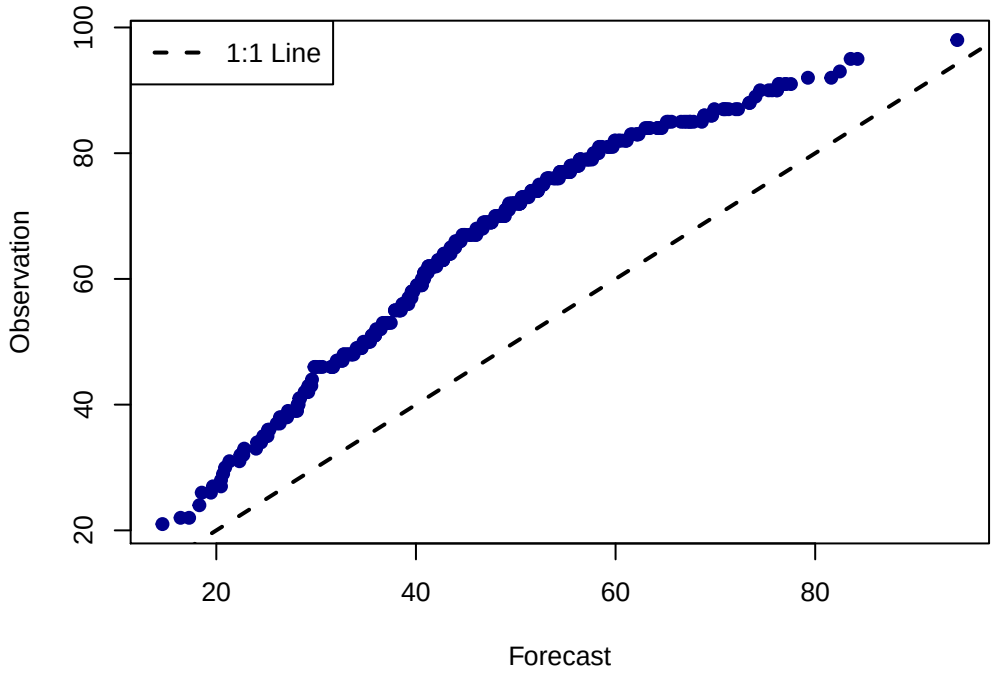


Shaded yellow region indicates daily range of CMA data. (No daily max available for RH%)

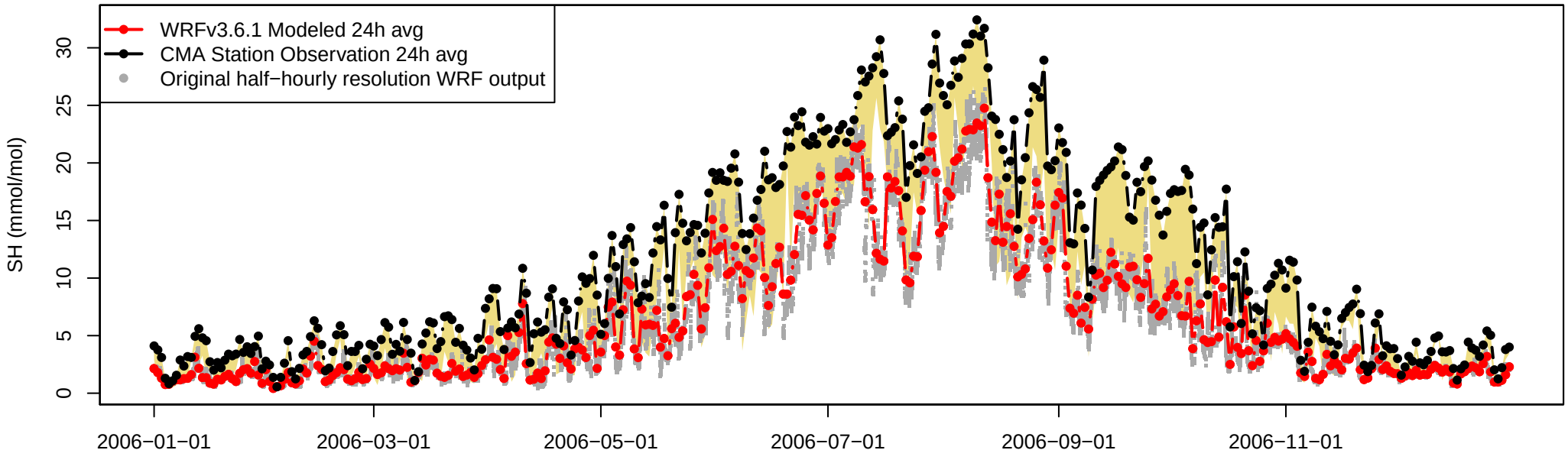
Relative Humidity (%) Scatterplot



Relative Humidity (%) QQ−Plot

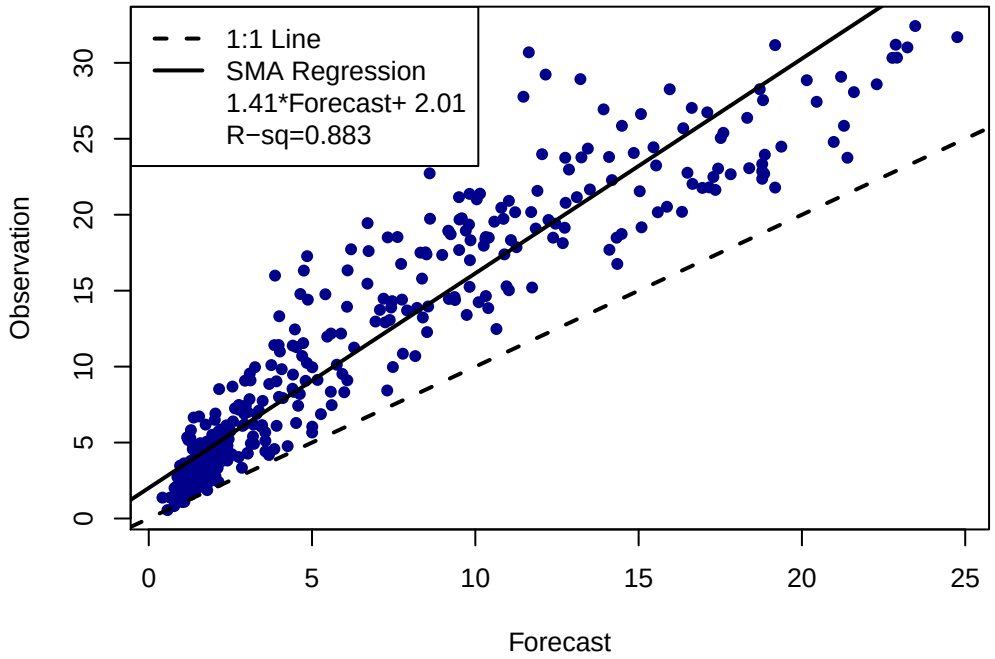


SH(mmol/mol) at 2m: CMA Obs Station # 54539 39.43 degN 118.88 degE vs Forecast at 42.353 degN 119.055 degE
2006 All Times Local (UTC+8)

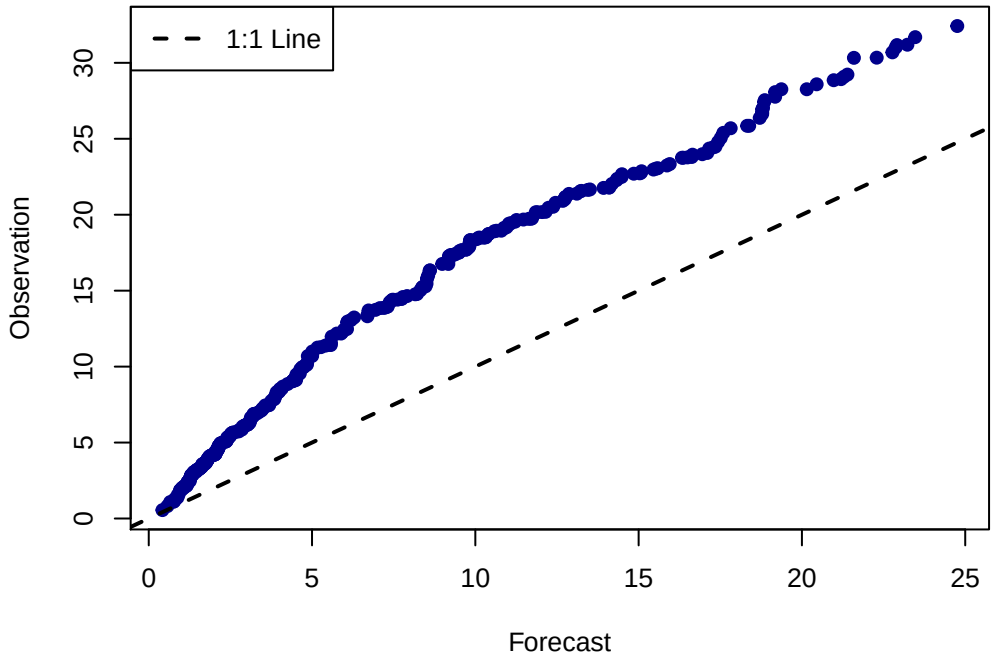


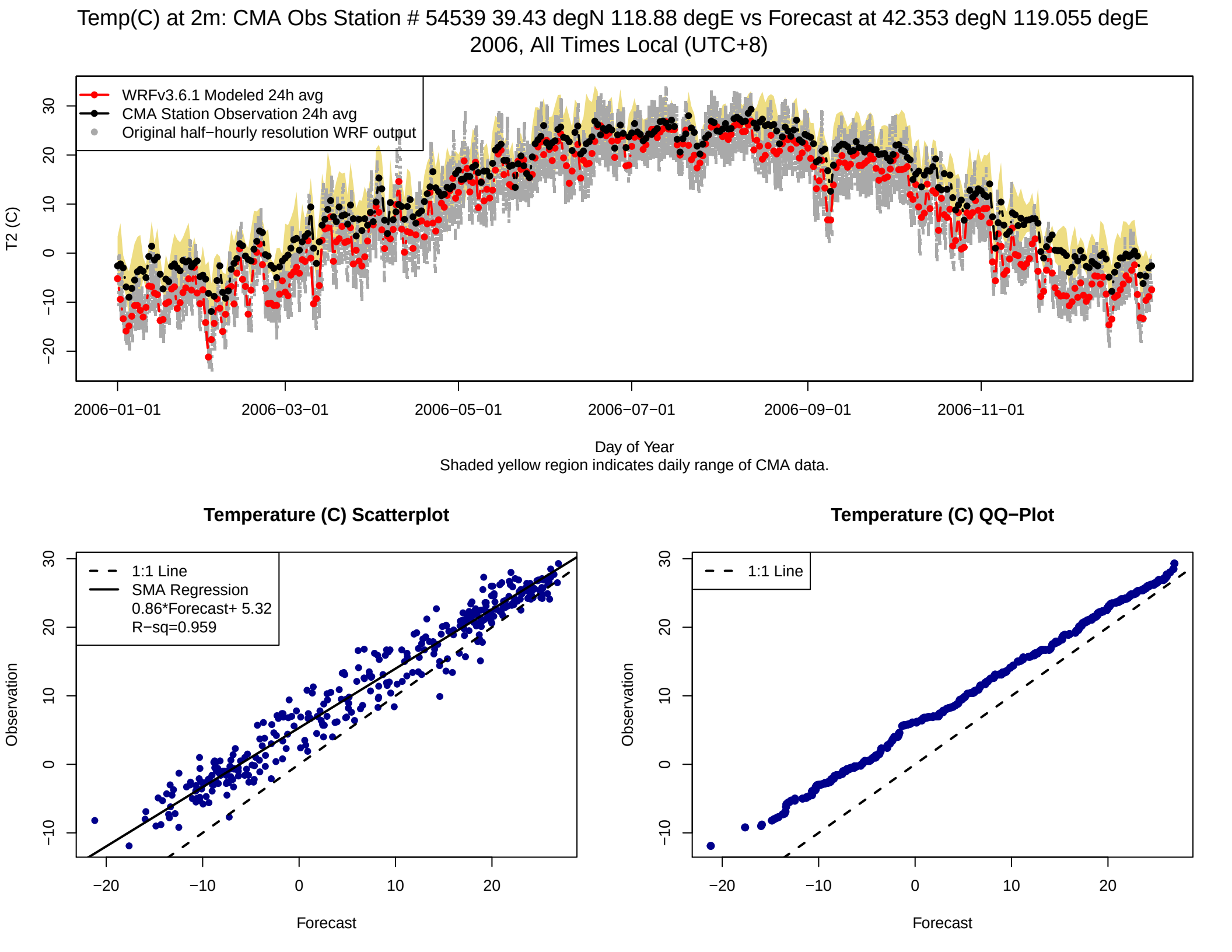
Shaded yellow region indicates daily range of CMA data. (No daily max available for SH)

Specific Humidity (mmol/mol) Scatterplot

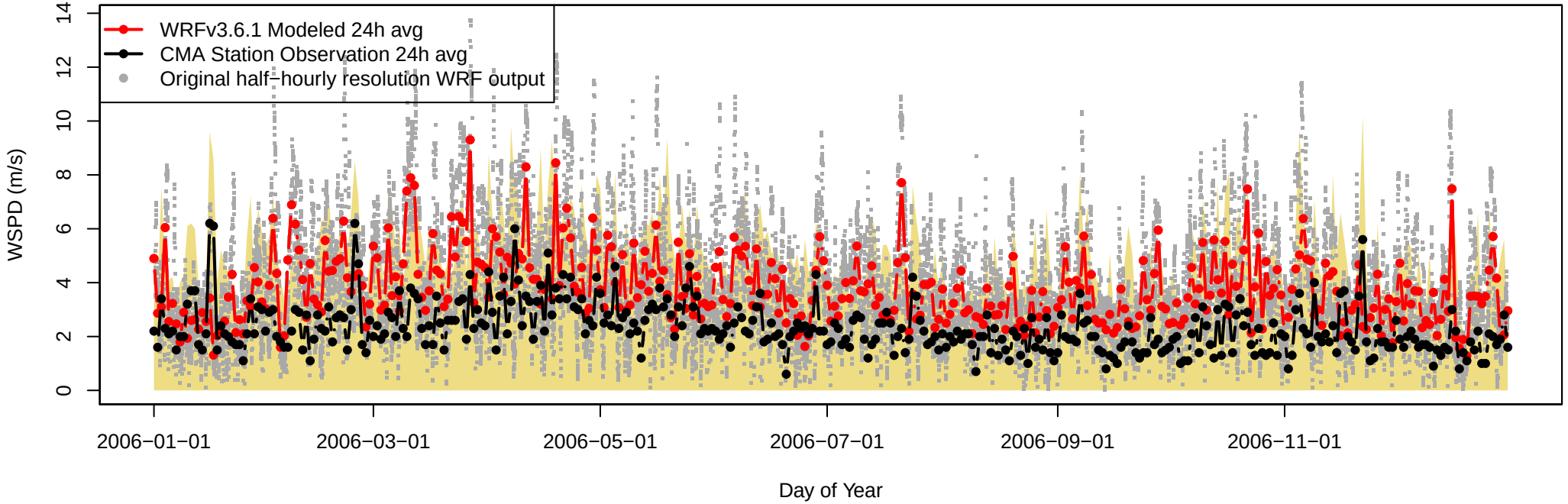


Specific Humidity (mmol/mol) QQ−Plot

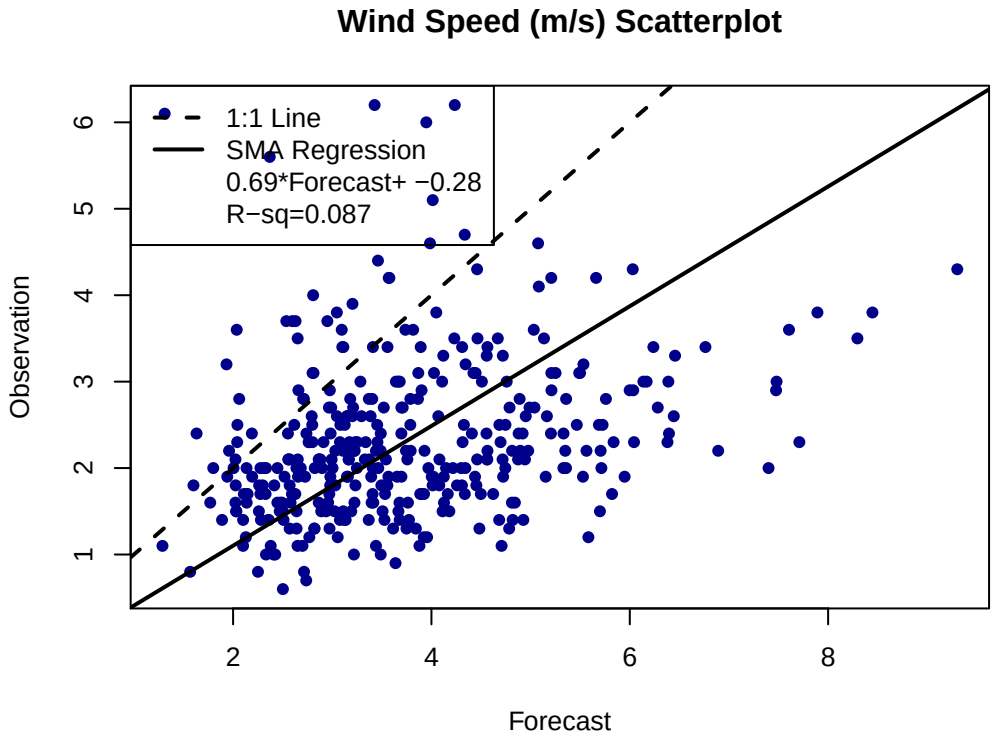


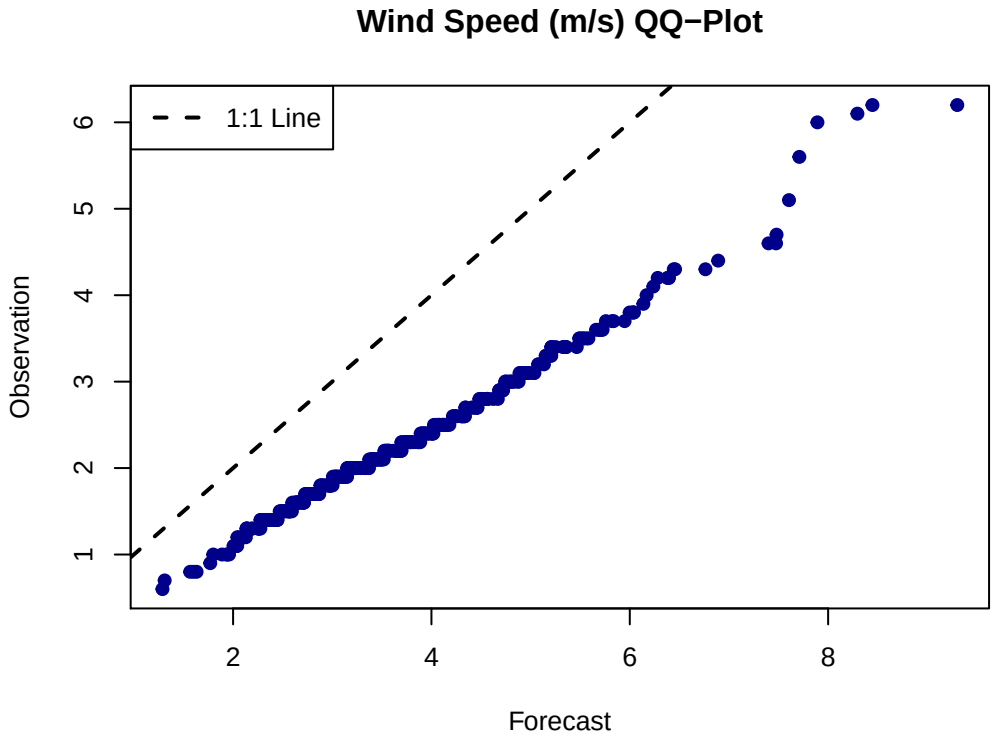

Temp(C) at 2m: CMA Obs Station # 54539 39.43 degN 118.88 degE vs Forecast at 42.353 degN 119.055 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
T2 (C)
30
20
10
0
−10
−20
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data.
Temperature (C) Scatterplot
1:1 Line
SMA Regression
0.86*Forecast+ 5.32
R−sq=0.959
Observation
Forecast
−20
−10
0
10
20
Temperature (C) QQ−Plot
1:1 Line
Observation
Forecast

Wind Speed (m/s) at 10m: CMA Obs Station # 54539 39.43 degN 118.88 degE vs Forecast at 42.353 degN 119.055 degE
2006, All Times Local (UTC+8)

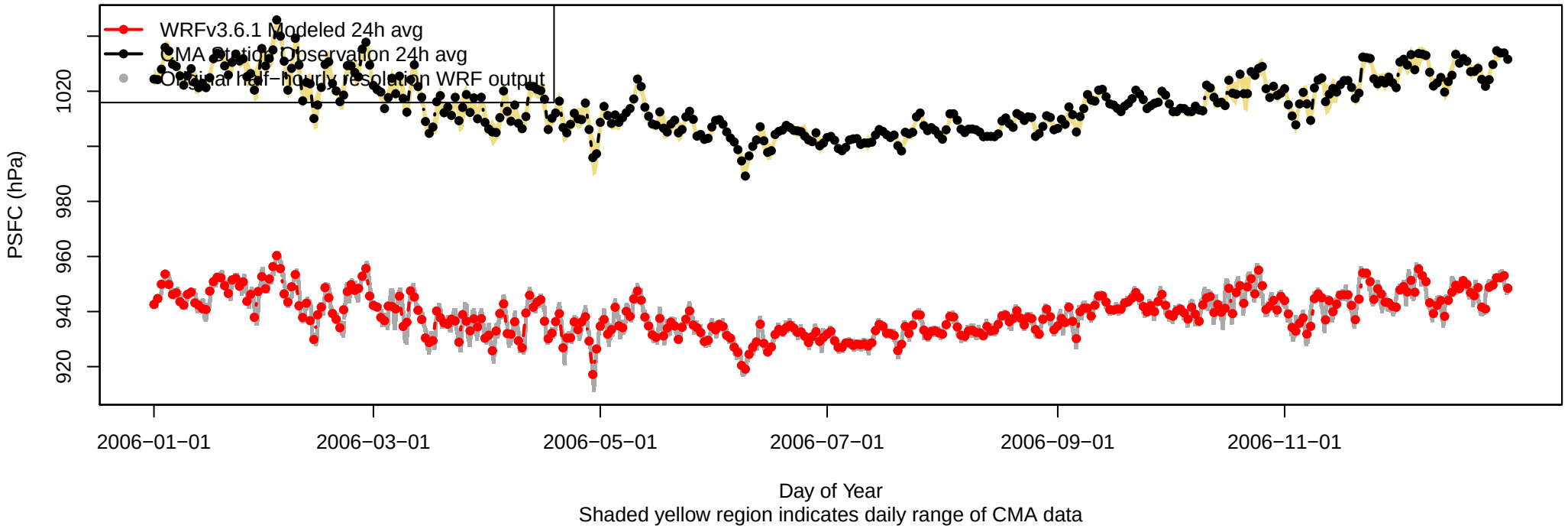


Shaded yellow region indicates daily range of CMA data. Min daily WSPD unavailable but assumed (and set at) 0.

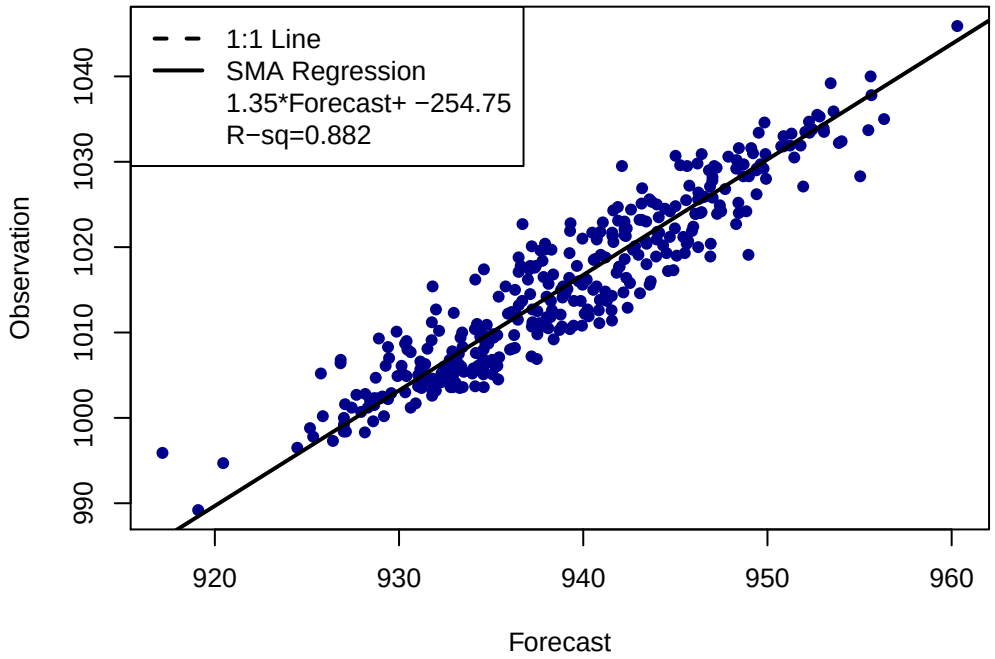




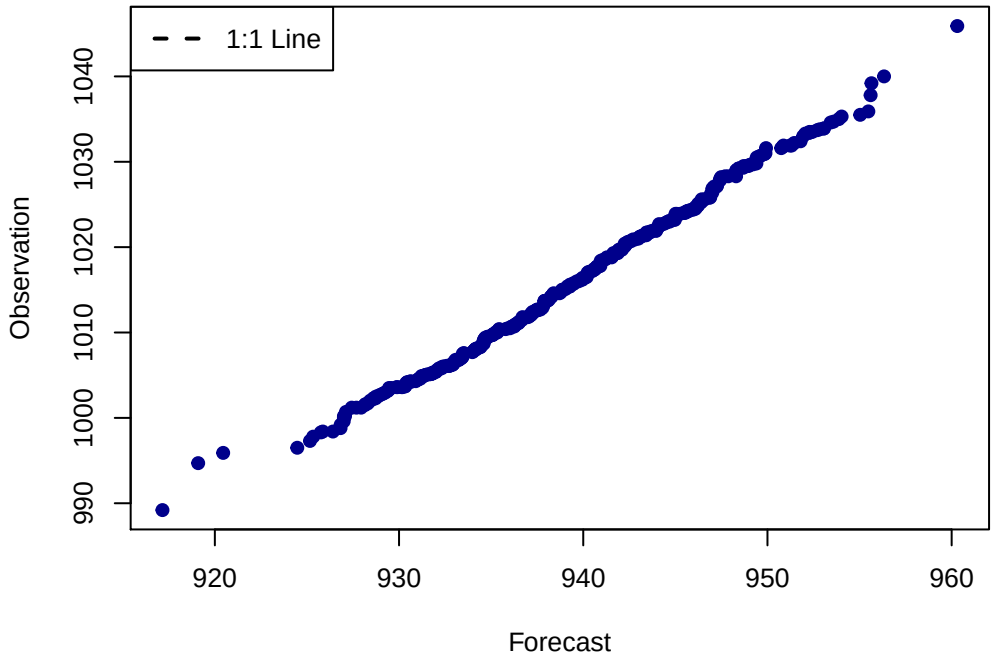
Surface Press (hPa): CMA Obs Station # 54539 39.43 degN 118.88 degE vs Forecast at 42.353 degN 119.055 degE
2006, All Times Local (UTC+8)



Surface Press (hPa) Scatterplot

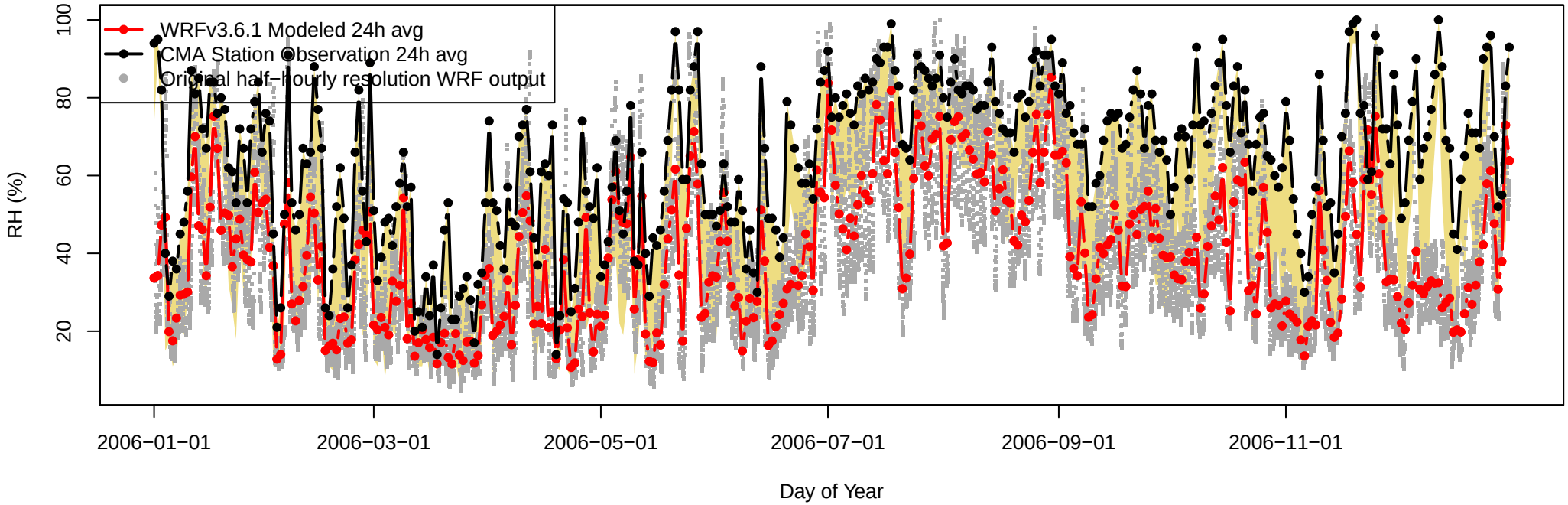


Surface Press (hPa) QQ−Plot



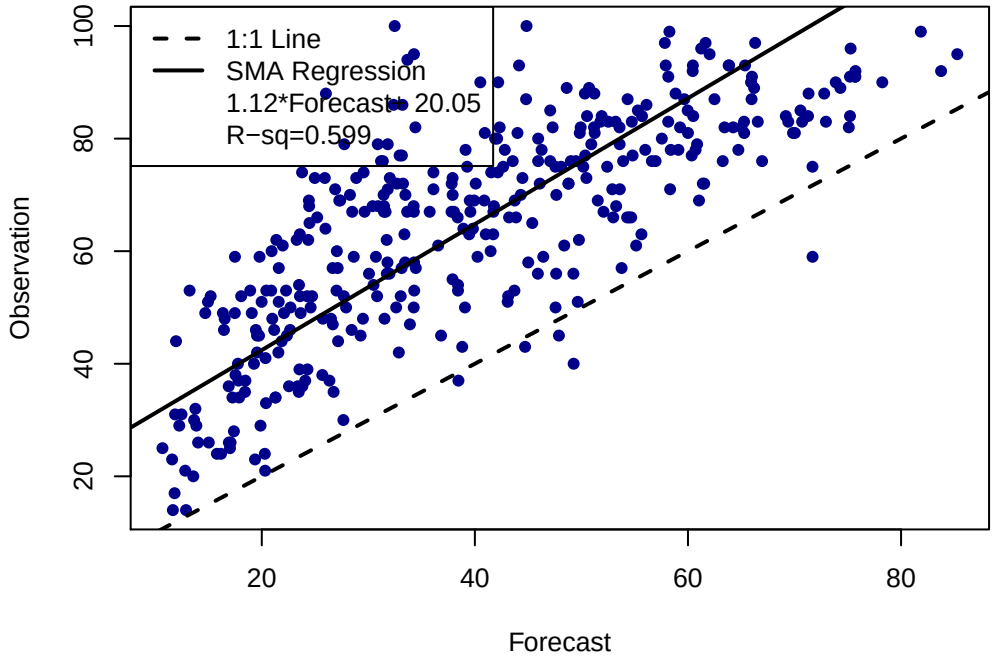
CMA Obs Station # 54618 38.08 degN 116.55 degE
vs Forecast at 38.118 degN 114.571 degE
2006, All Times Local (UTC+8)

Surface RH(%): CMA Obs Station # 54618 38.08 degN 116.55 degE vs 2m Forecast at 38.118 degN 114.571 degE
2006, All Times Local (UTC+8)

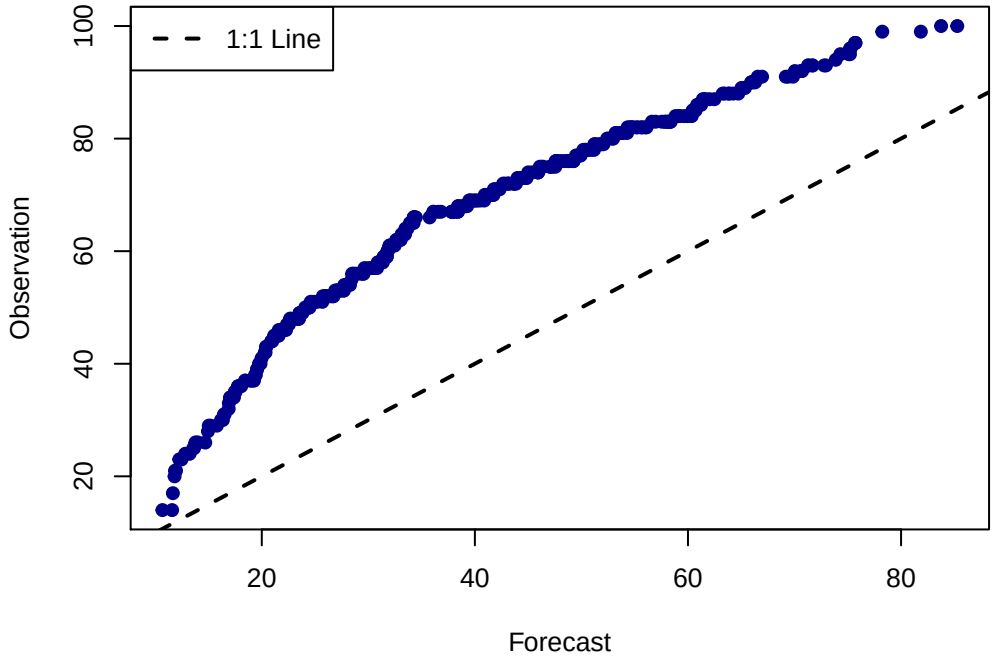


Shaded yellow region indicates daily range of CMA data. (No daily max available for RH%)

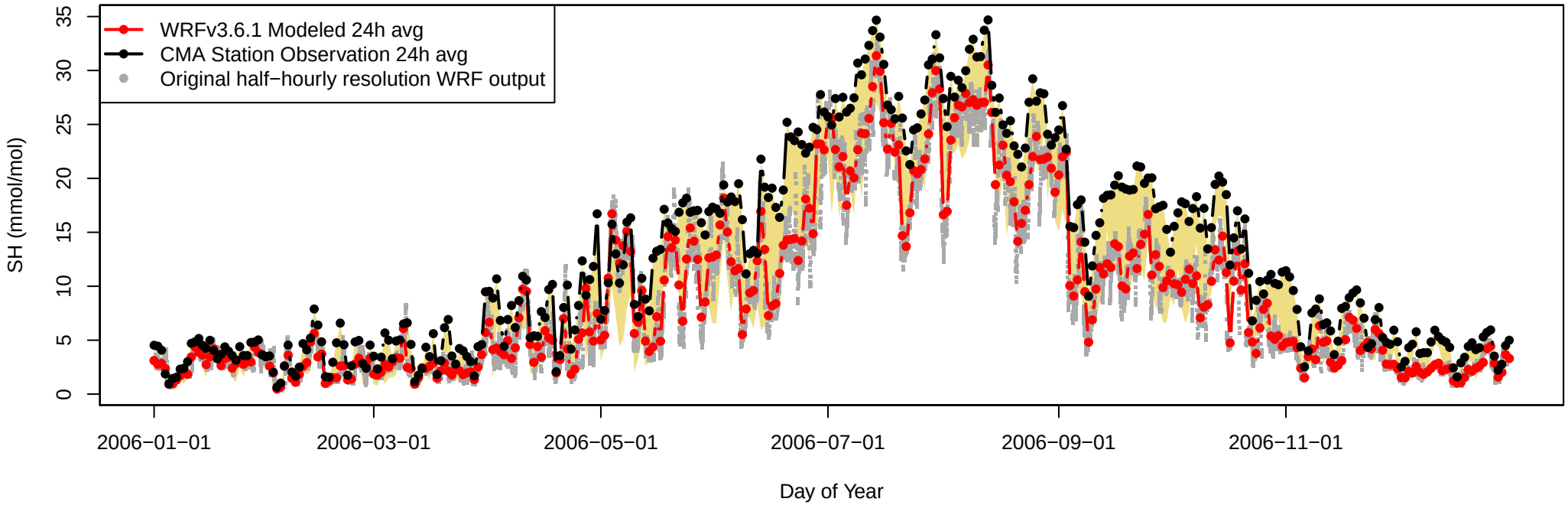
Relative Humidity (%) Scatterplot



Relative Humidity (%) QQ−Plot

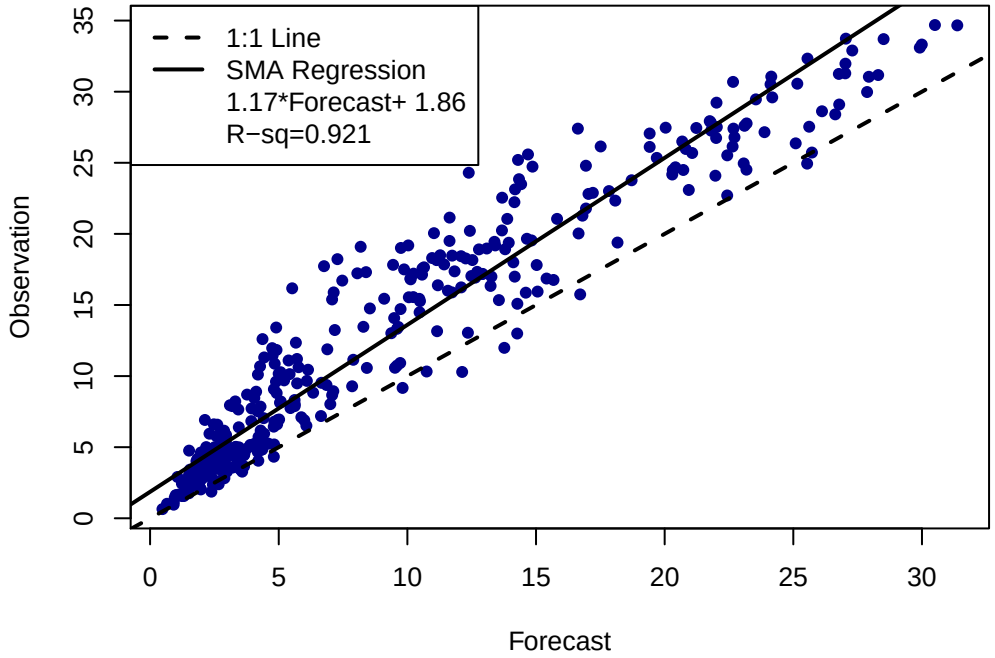


SH(mmol/mol) at 2m: CMA Obs Station # 54618 38.08 degN 116.55 degE vs Forecast at 38.118 degN 114.571 degE
2006 All Times Local (UTC+8)

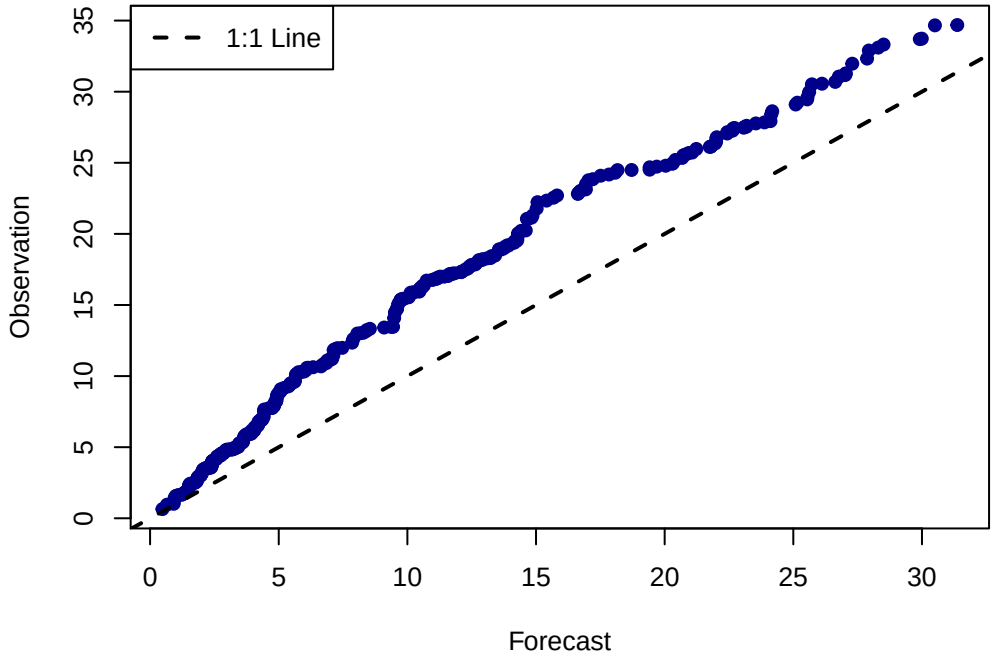


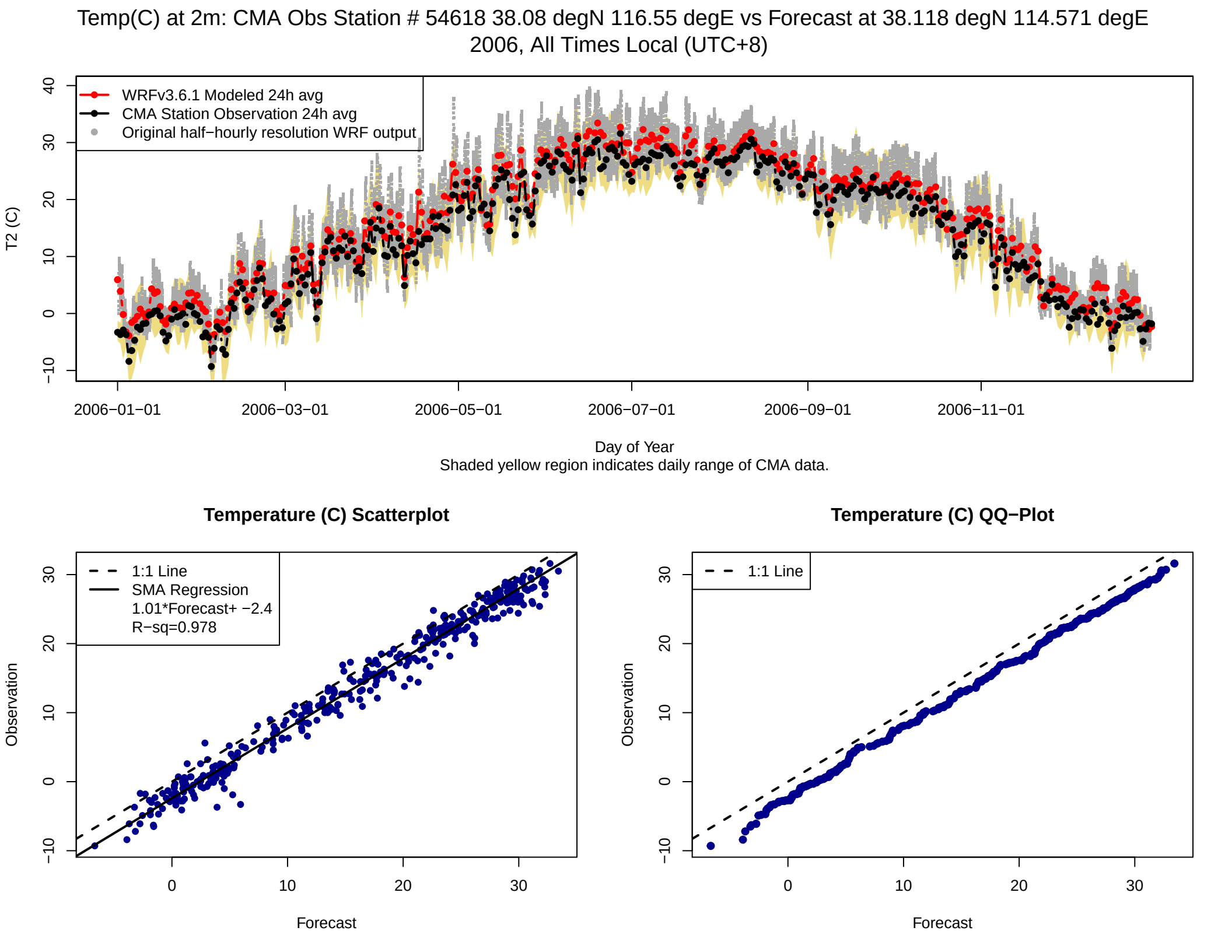
Shaded yellow region indicates daily range of CMA data. (No daily max available for SH)

Specific Humidity (mmol/mol) Scatterplot

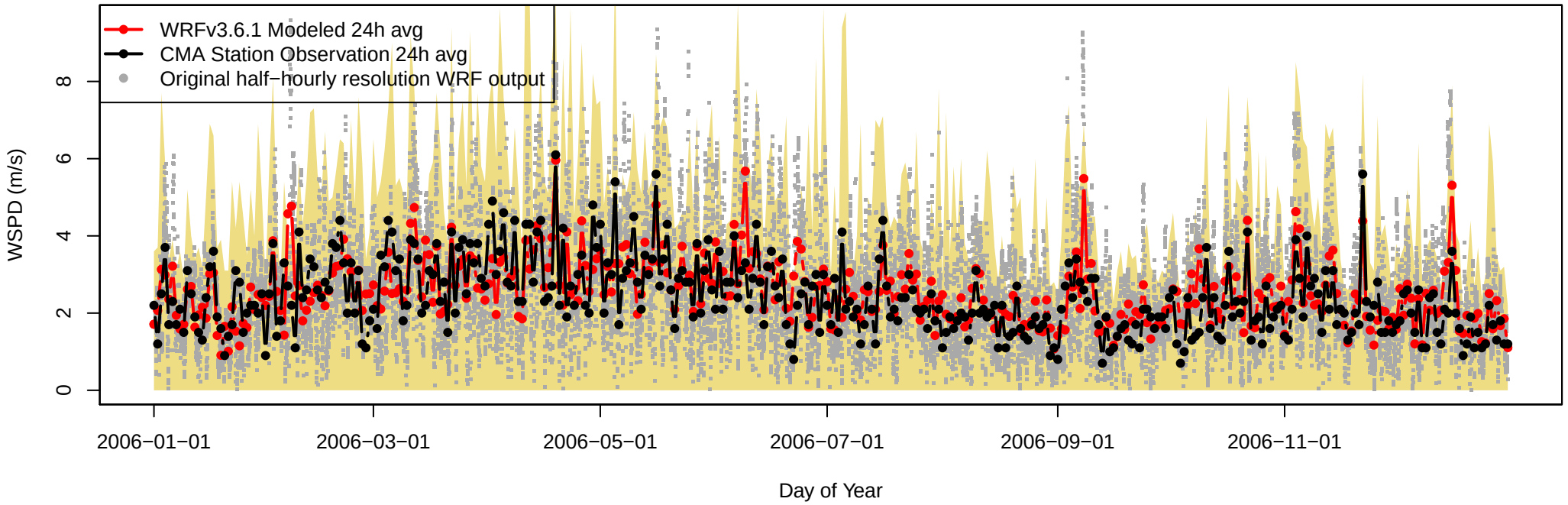


Specific Humidity (mmol/mol) QQ−Plot



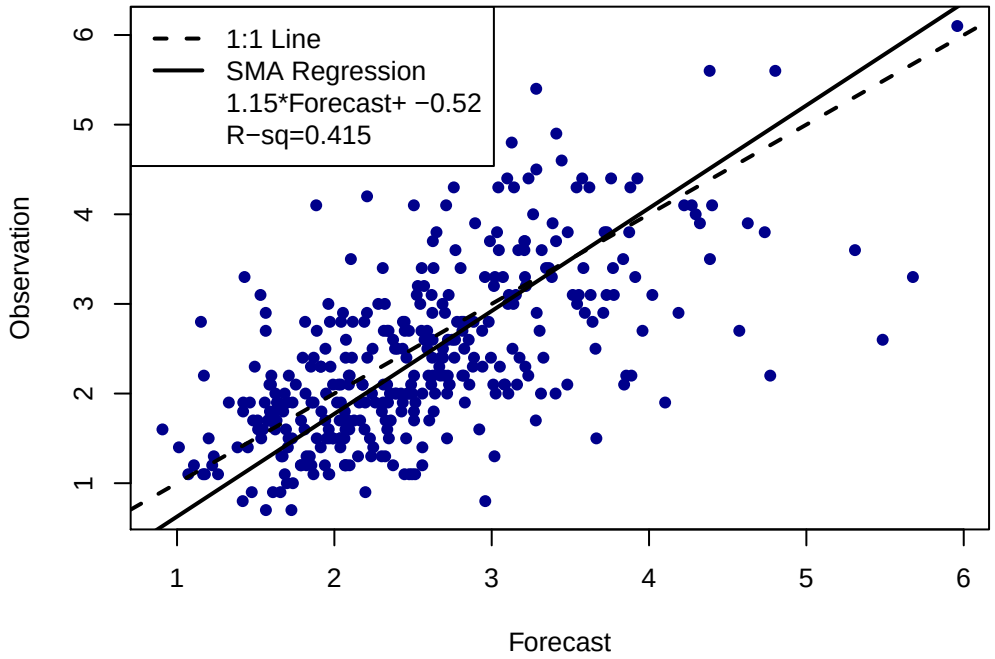

Temp(C) at 2m: CMA Obs Station # 54618 38.08 degN 116.55 degE vs Forecast at 38.118 degN 114.571 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
T2 (C)
40
30
20
10
0
−10
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data.
Temperature (C) Scatterplot
1:1 Line
SMA Regression
1.01*Forecast+ −2.4
R−sq=0.978
Observation
Forecast
0
10
20
30
−10
Temperature (C) QQ−Plot
1:1 Line
Observation
Forecast

Wind Speed (m/s) at 10m: CMA Obs Station # 54618 38.08 degN 116.55 degE vs Forecast at 38.118 degN 114.571 degE
2006, All Times Local (UTC+8)

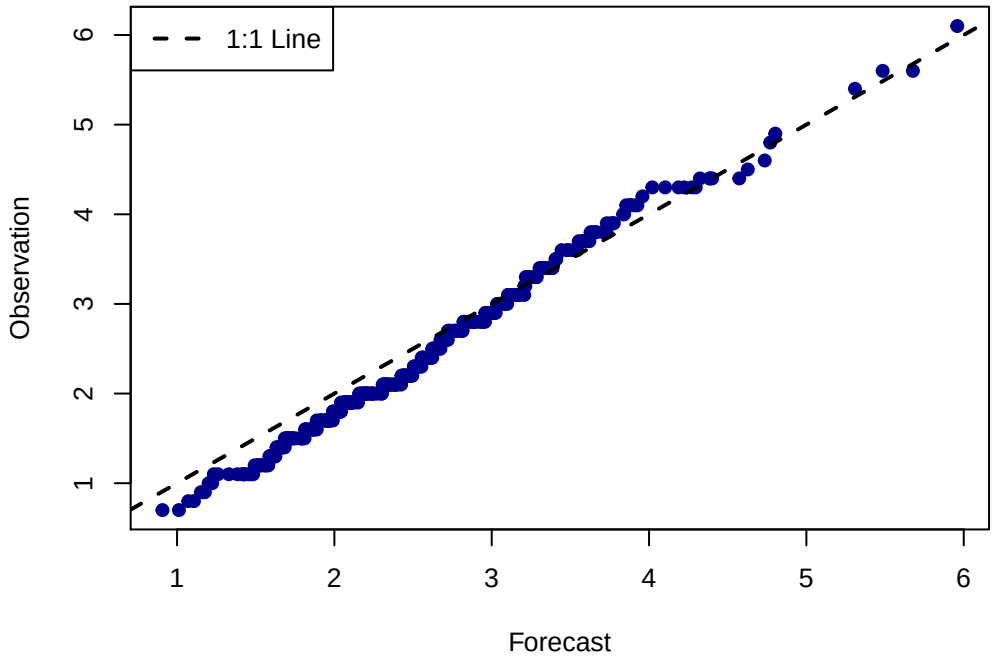


Shaded yellow region indicates daily range of CMA data. Min daily WSPD unavailable but assumed (and set at) 0.

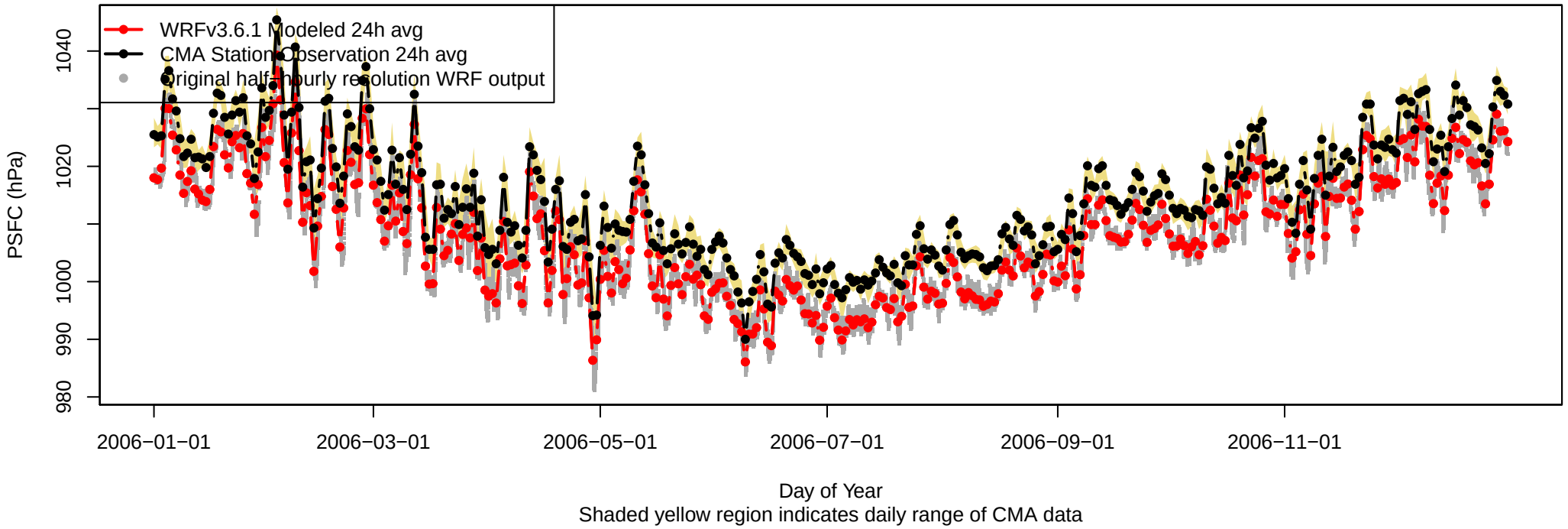
Wind Speed (m/s) Scatterplot

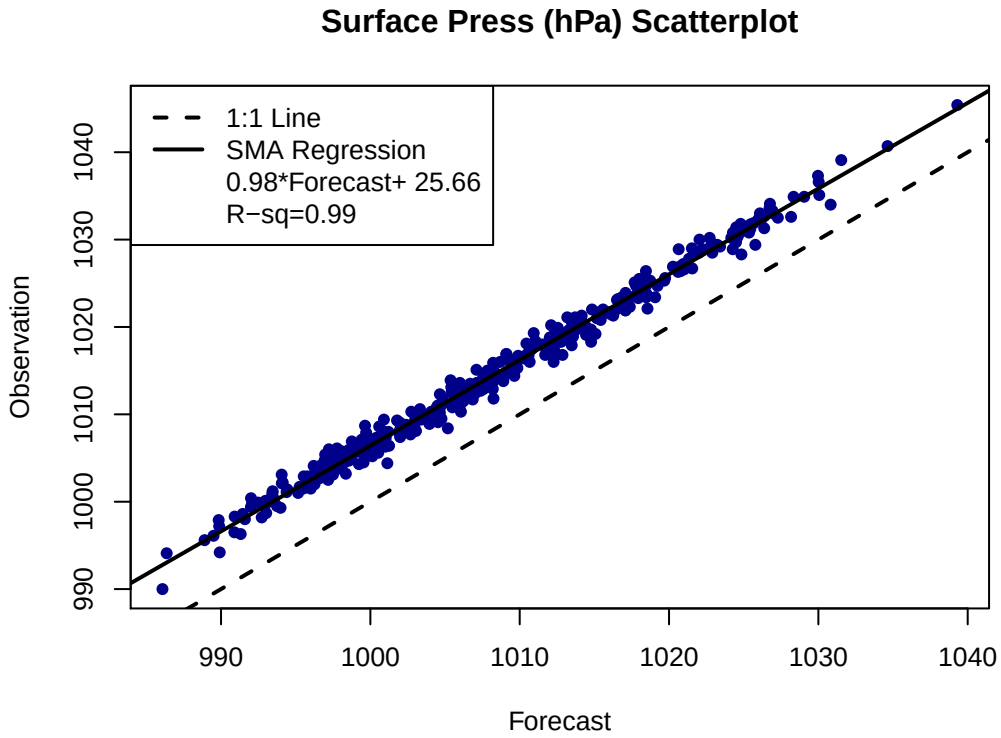


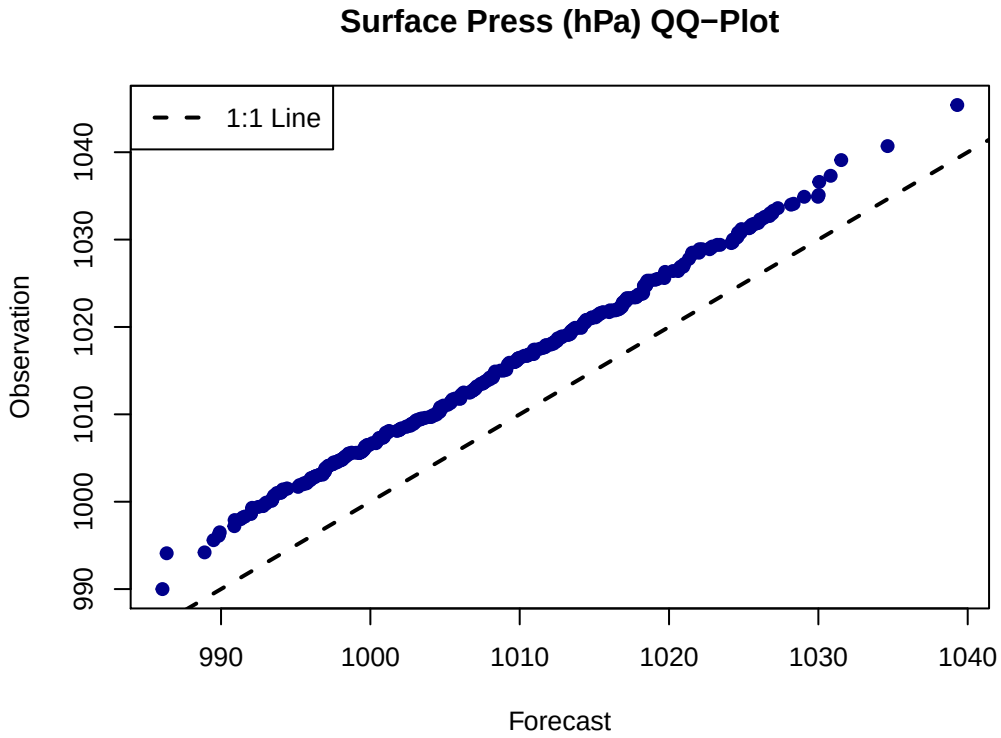
Wind Speed (m/s) QQ−Plot



Surface Press (hPa): CMA Obs Station # 54618 38.08 degN 116.55 degE vs Forecast at 38.118 degN 114.571 degE
2006, All Times Local (UTC+8)

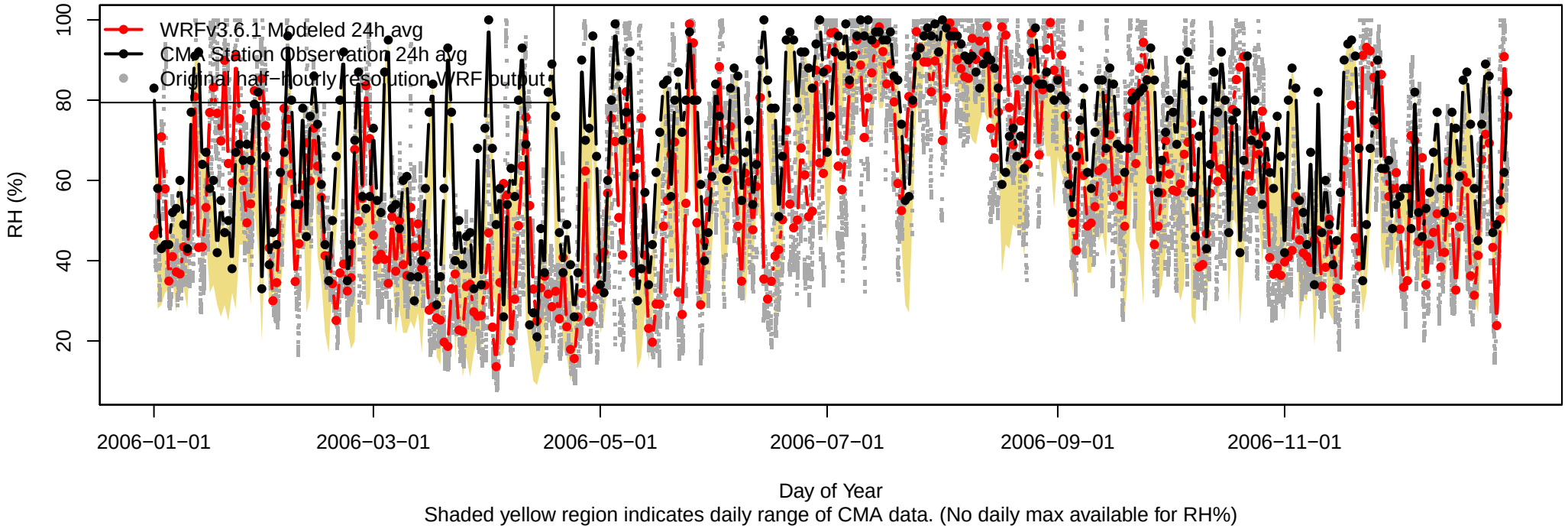






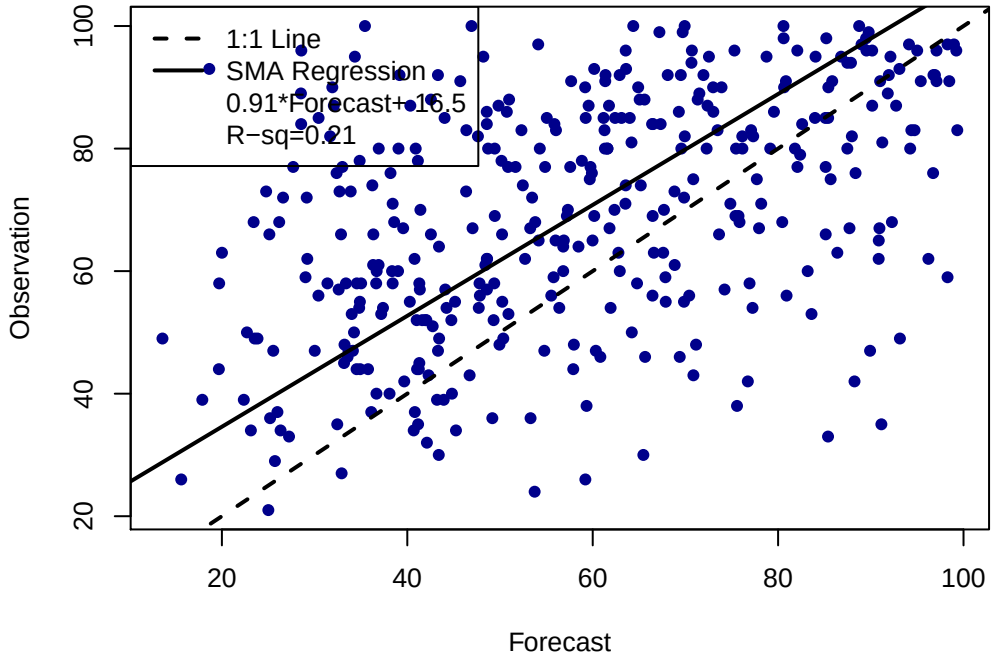
CMA Obs Station # 54662 38.9 degN 121.63 degE
vs Forecast at 39.001 degN 113.602 degE
2006, All Times Local (UTC+8)

Surface RH(%): CMA Obs Station # 54662 38.9 degN 121.63 degE vs 2m Forecast at 39.001 degN 113.602 degE
2006, All Times Local (UTC+8)

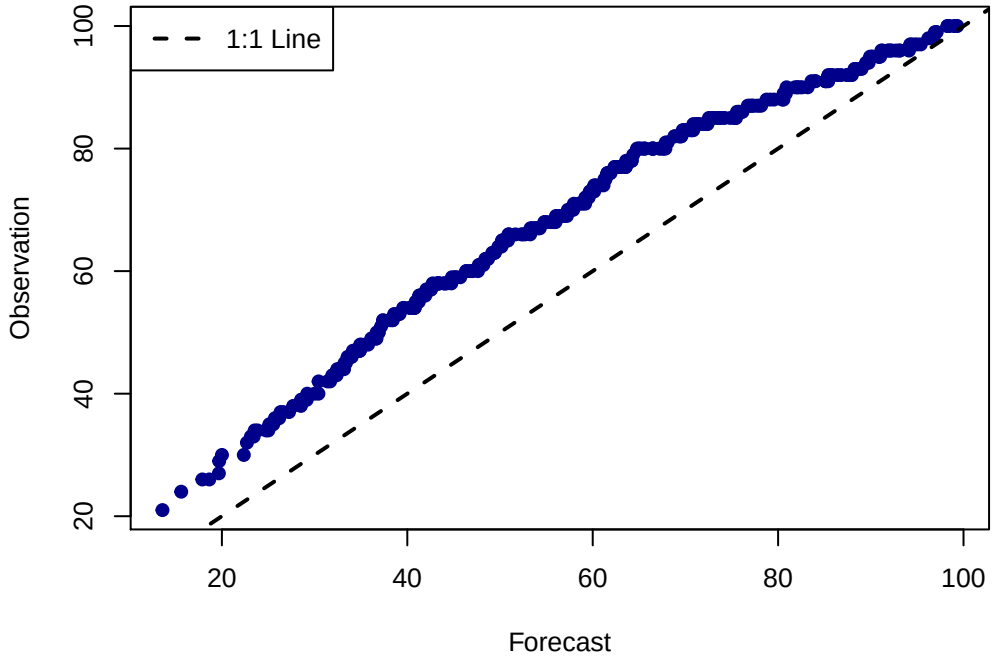


Shaded yellow region indicates daily range of CMA data. (No daily max available for RH%)

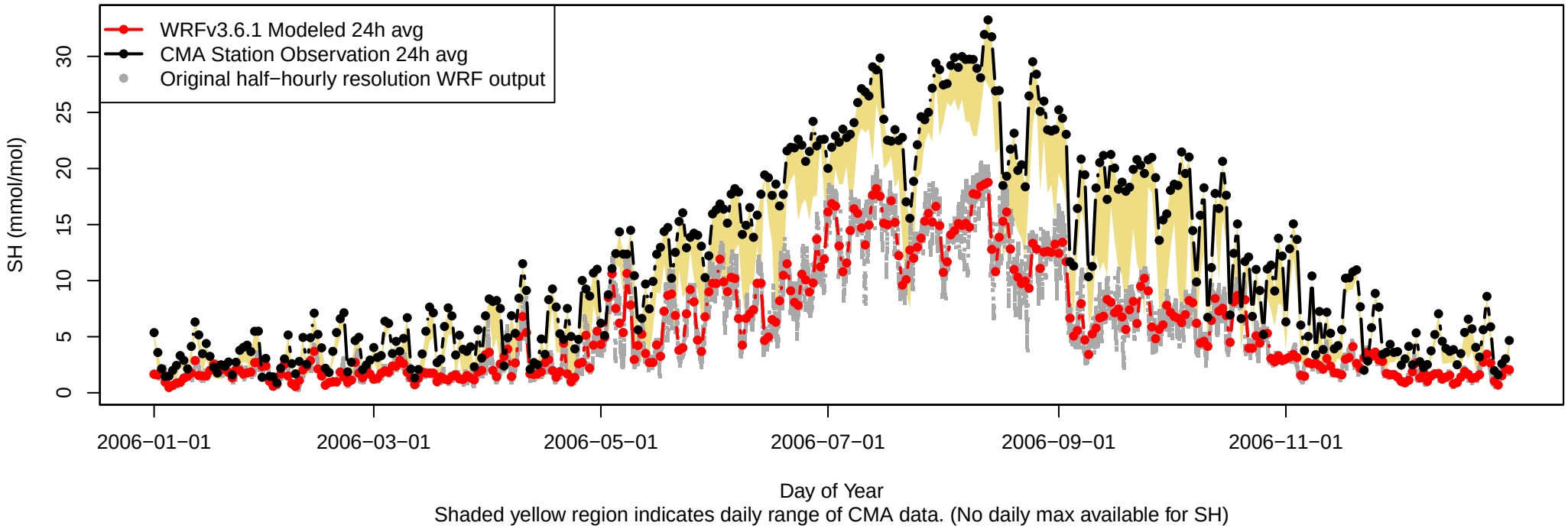
Relative Humidity (%) Scatterplot



Relative Humidity (%) QQ−Plot

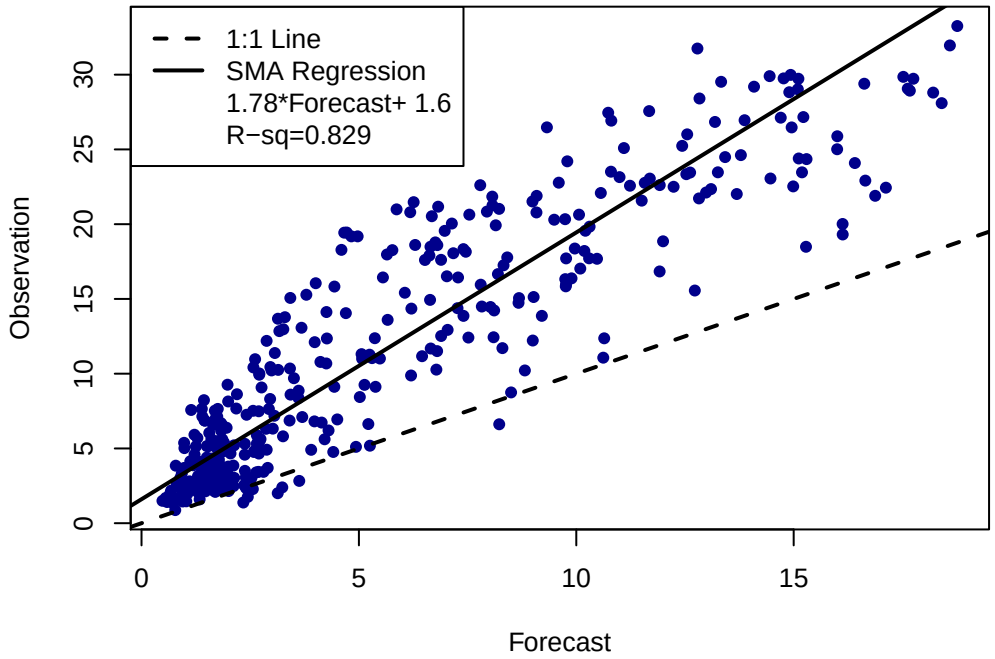


SH(mmol/mol) at 2m: CMA Obs Station # 54662 38.9 degN 121.63 degE vs Forecast at 39.001 degN 113.602 degE
2006 All Times Local (UTC+8)

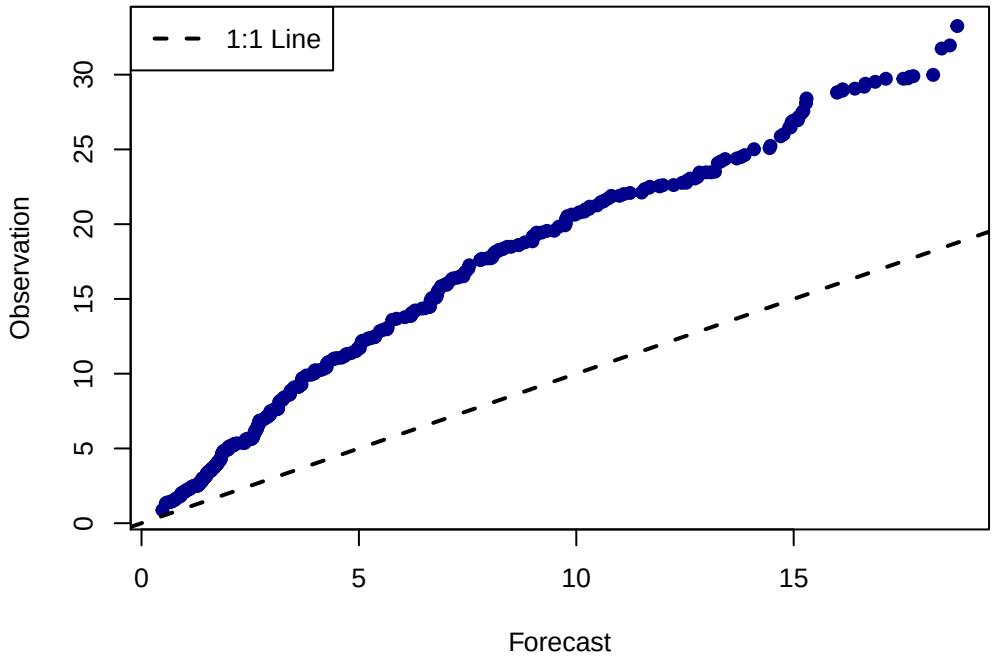


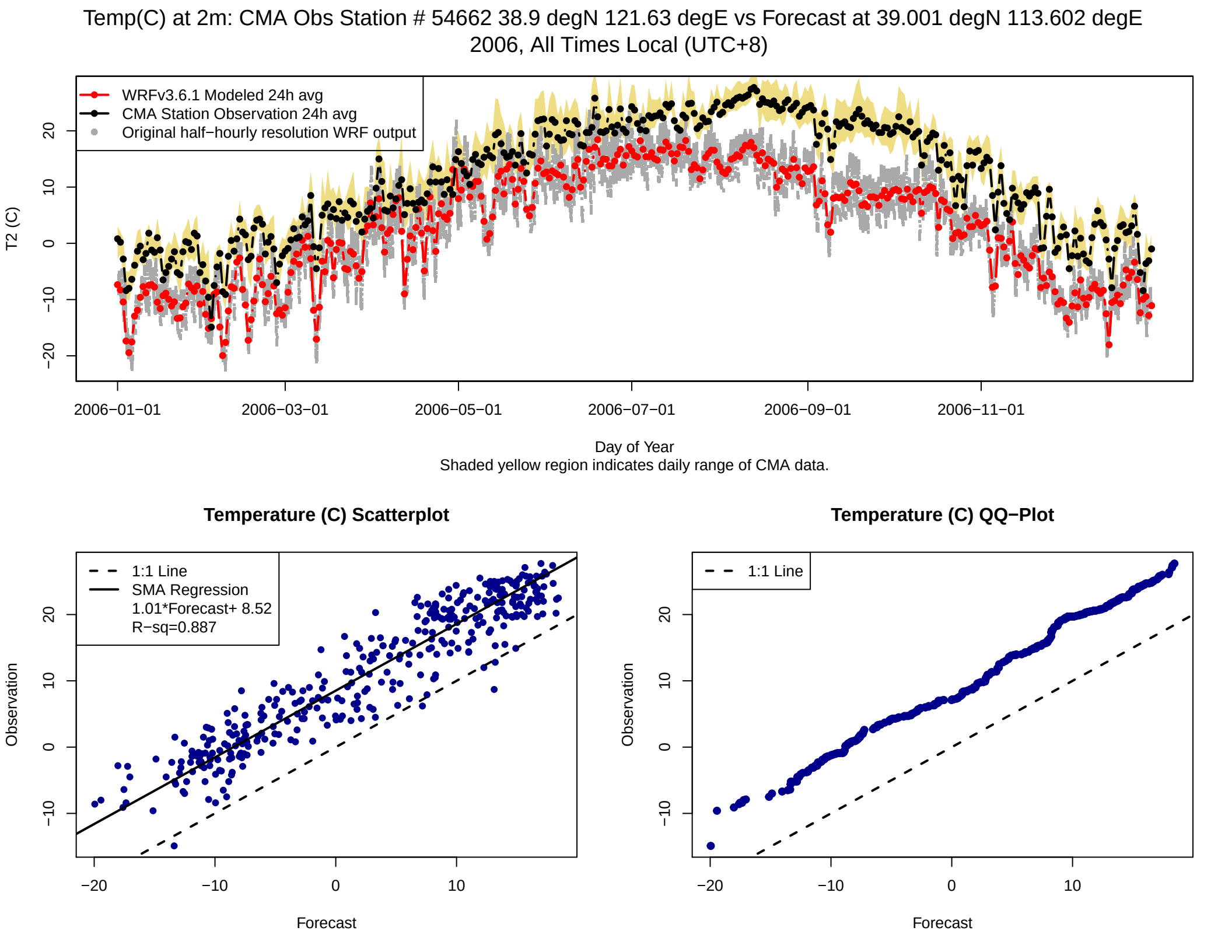
Shaded yellow region indicates daily range of CMA data. (No daily max available for SH)

Specific Humidity (mmol/mol) Scatterplot

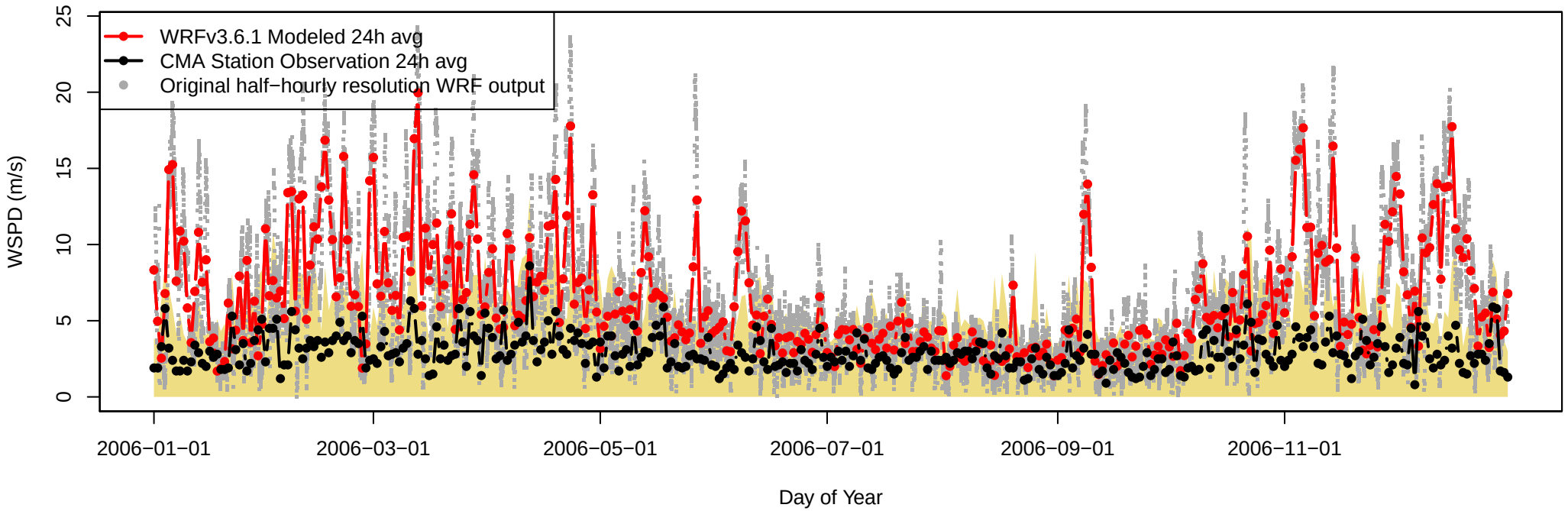


Specific Humidity (mmol/mol) QQ−Plot



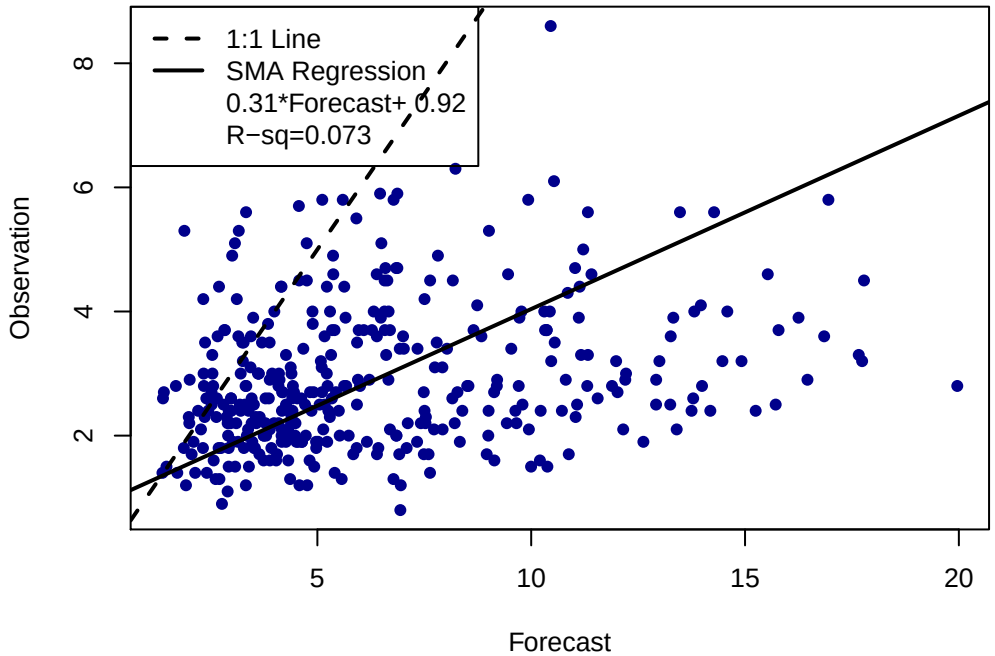

Temp(C) at 2m: CMA Obs Station # 54662 38.9 degN 121.63 degE vs Forecast at 39.001 degN 113.602 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
T2 (C)
20
10
0
−10
−20
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data.
Temperature (C) Scatterplot
1:1 Line
SMA Regression
1.01*Forecast+ 8.52
R−sq=0.887
Observation
Forecast
−20
−10
0
10
20
Temperature (C) QQ−Plot
1:1 Line
Observation
Forecast

Wind Speed (m/s) at 10m: CMA Obs Station # 54662 38.9 degN 121.63 degE vs Forecast at 39.001 degN 113.602 degE
2006, All Times Local (UTC+8)

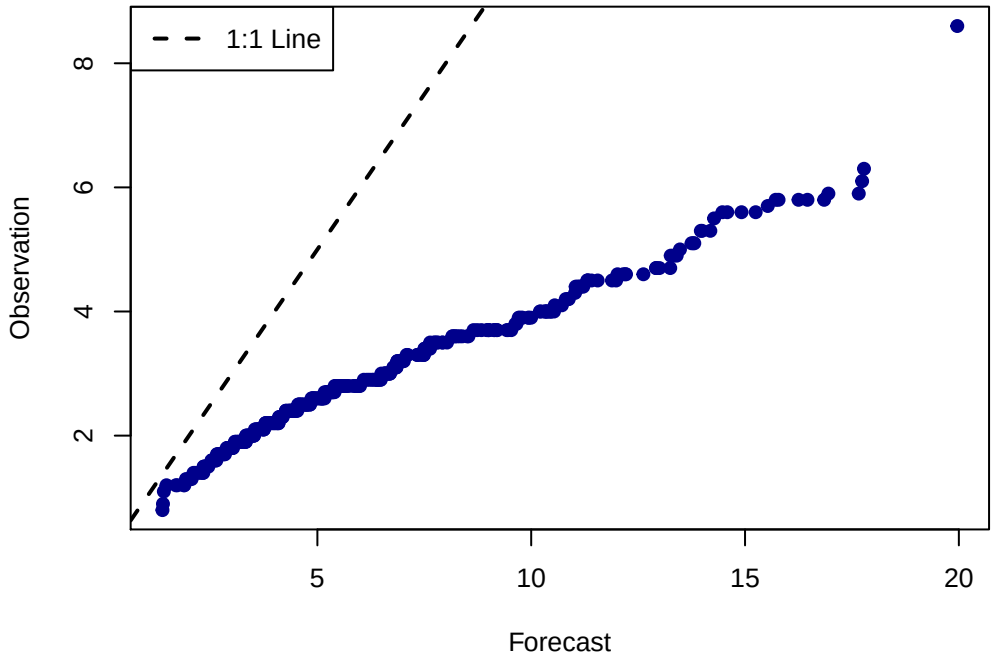


Shaded yellow region indicates daily range of CMA data. Min daily WSPD unavailable but assumed (and set at) 0.

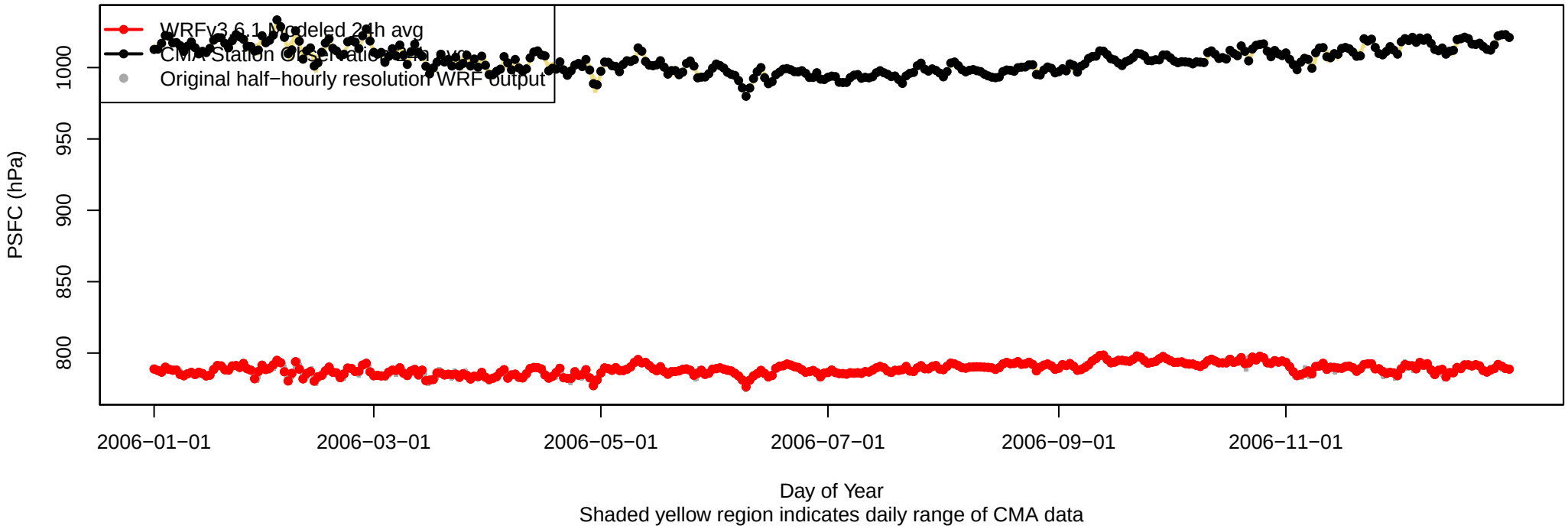
Wind Speed (m/s) Scatterplot



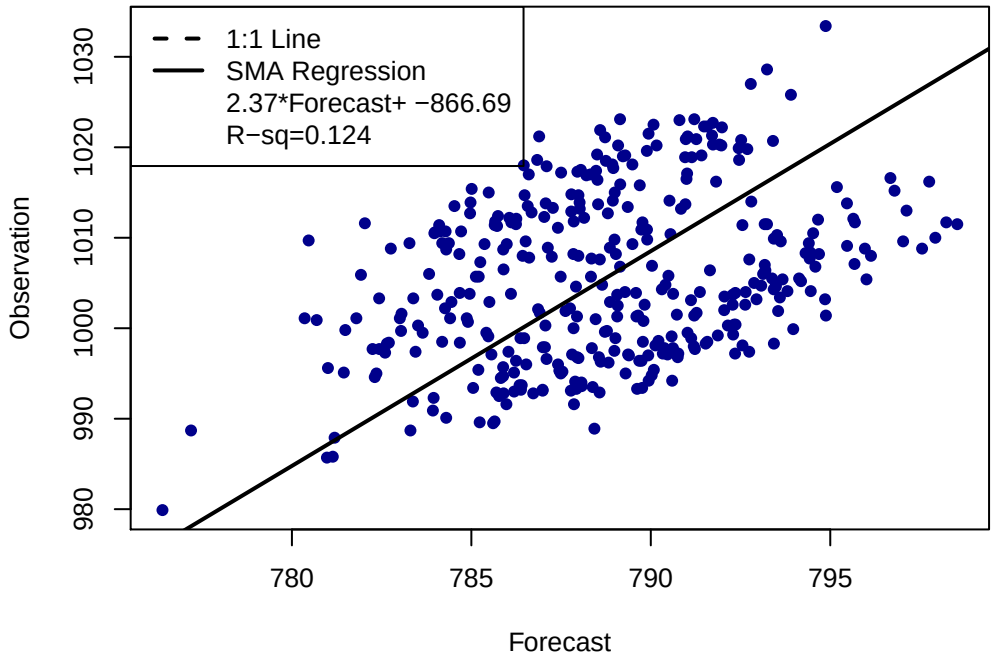
Wind Speed (m/s) QQ−Plot



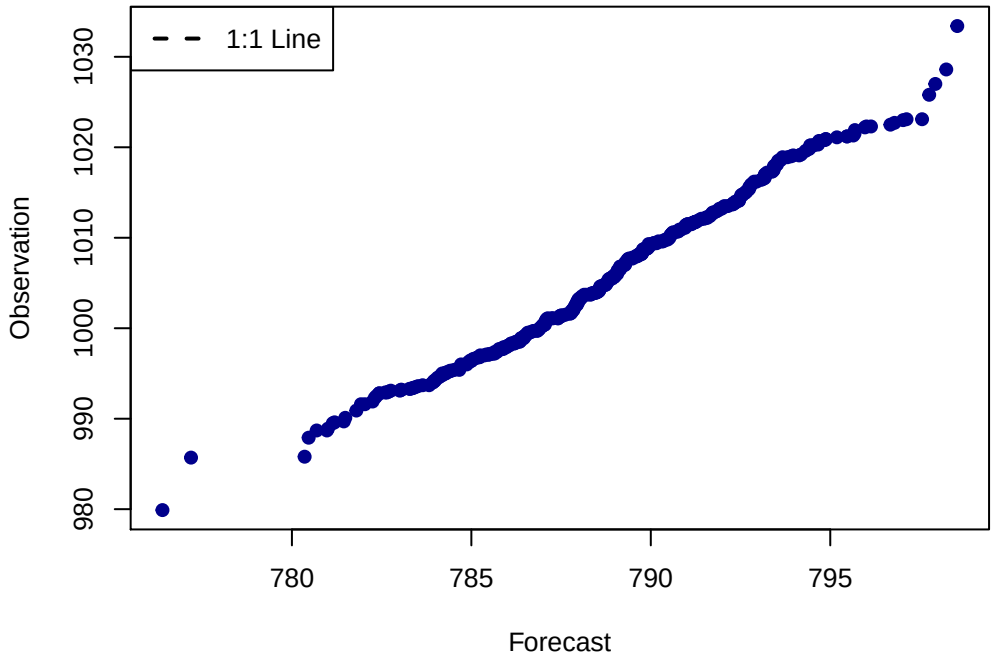
Surface Press (hPa): CMA Obs Station # 54662 38.9 degN 121.63 degE vs Forecast at 39.001 degN 113.602 degE
2006, All Times Local (UTC+8)



Surface Press (hPa) Scatterplot

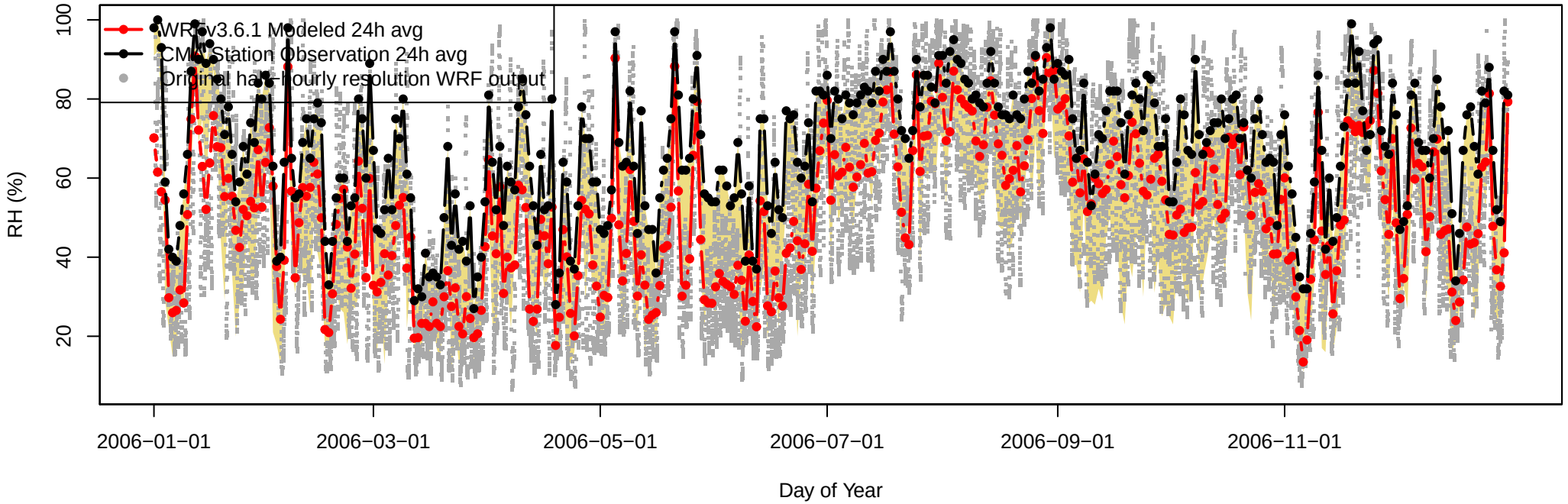


Surface Press (hPa) QQ−Plot



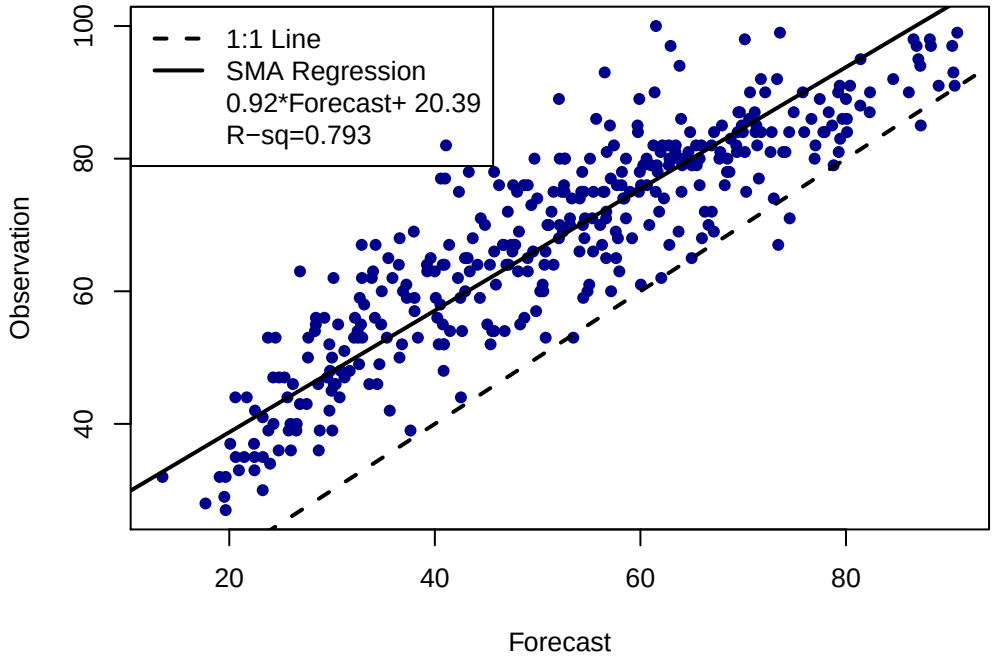
CMA Obs Station # 54725 37.48 degN 117.53 degE
vs Forecast at 37.559 degN 117.588 degE
2006, All Times Local (UTC+8)

Surface RH(%): CMA Obs Station # 54725 37.48 degN 117.53 degE vs 2m Forecast at 37.559 degN 117.588 degE
2006, All Times Local (UTC+8)

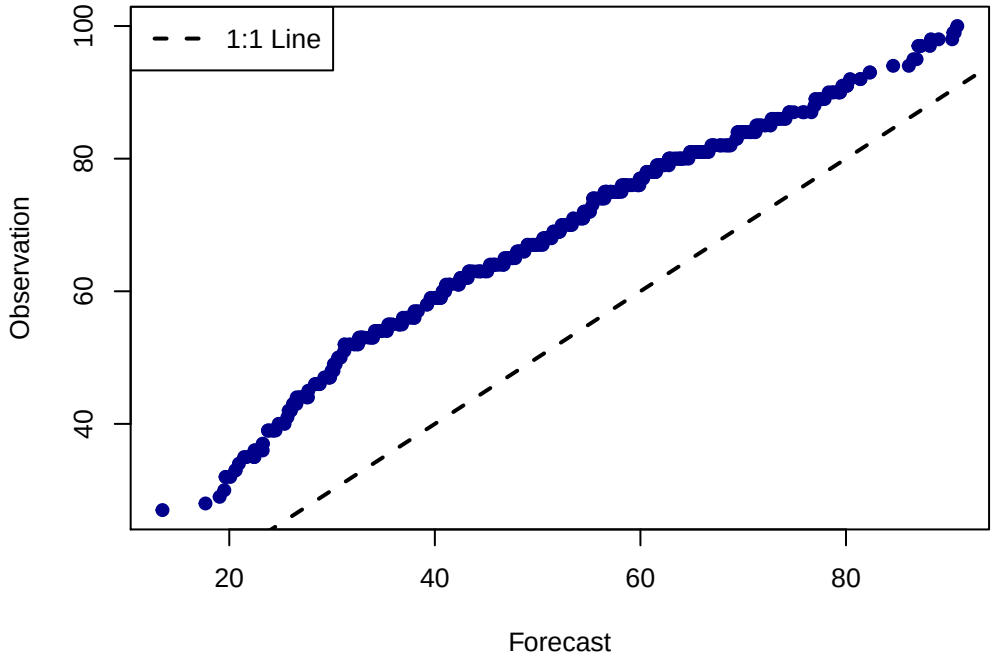


Shaded yellow region indicates daily range of CMA data. (No daily max available for RH%)

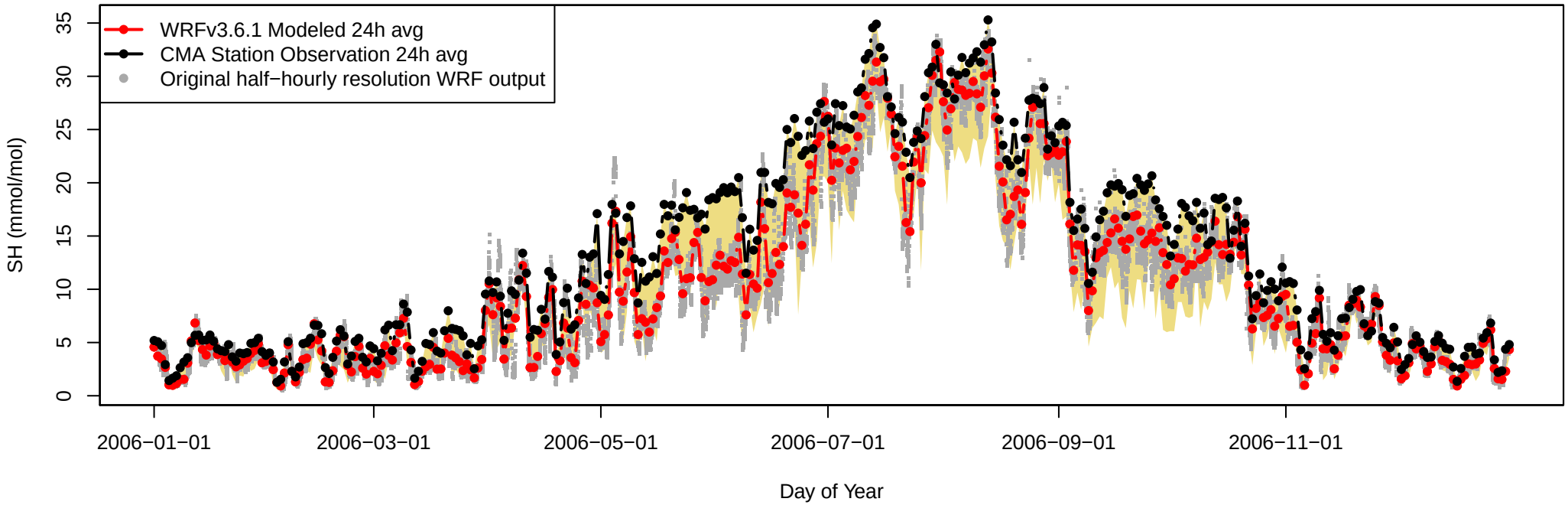
Relative Humidity (%) Scatterplot



Relative Humidity (%) QQ−Plot

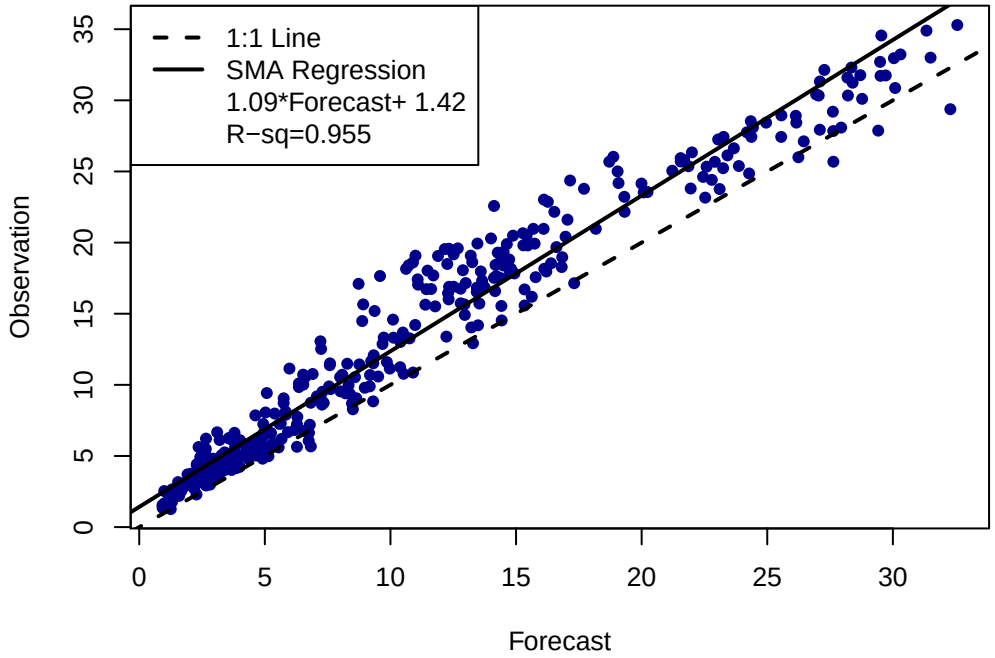


SH(mmol/mol) at 2m: CMA Obs Station # 54725 37.48 degN 117.53 degE vs Forecast at 37.559 degN 117.588 degE
2006 All Times Local (UTC+8)

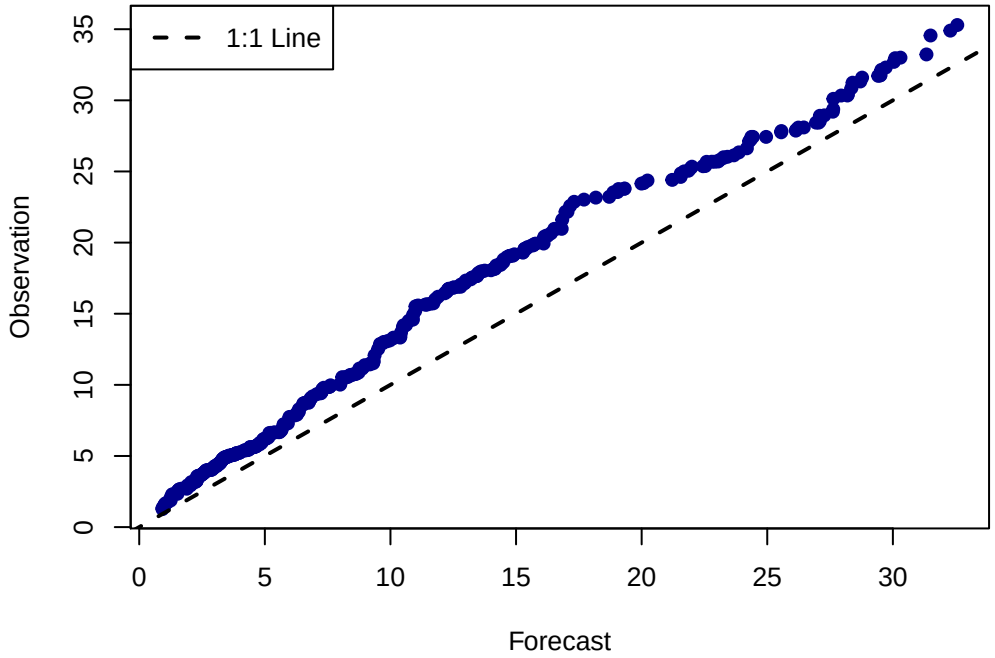


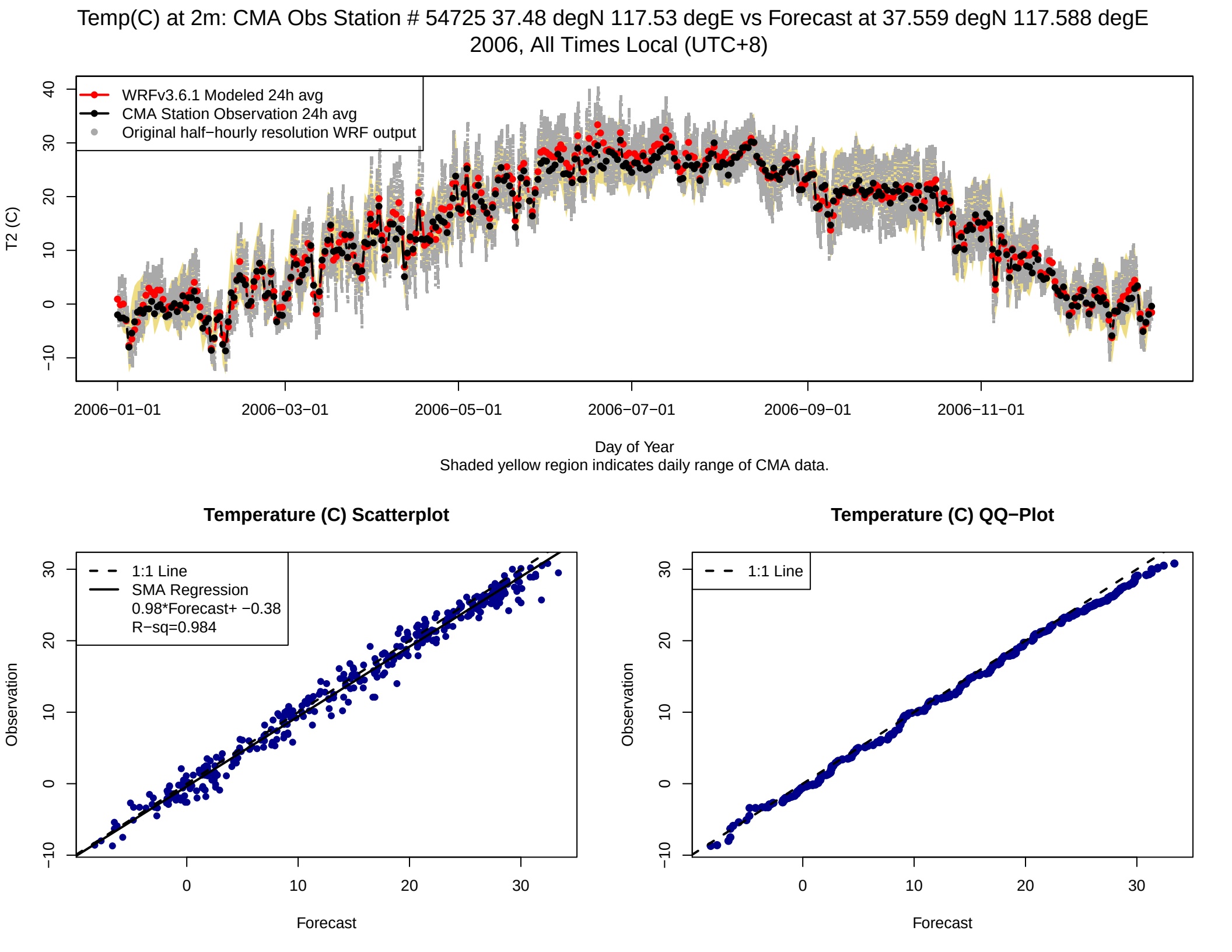
Shaded yellow region indicates daily range of CMA data. (No daily max available for SH)

Specific Humidity (mmol/mol) Scatterplot

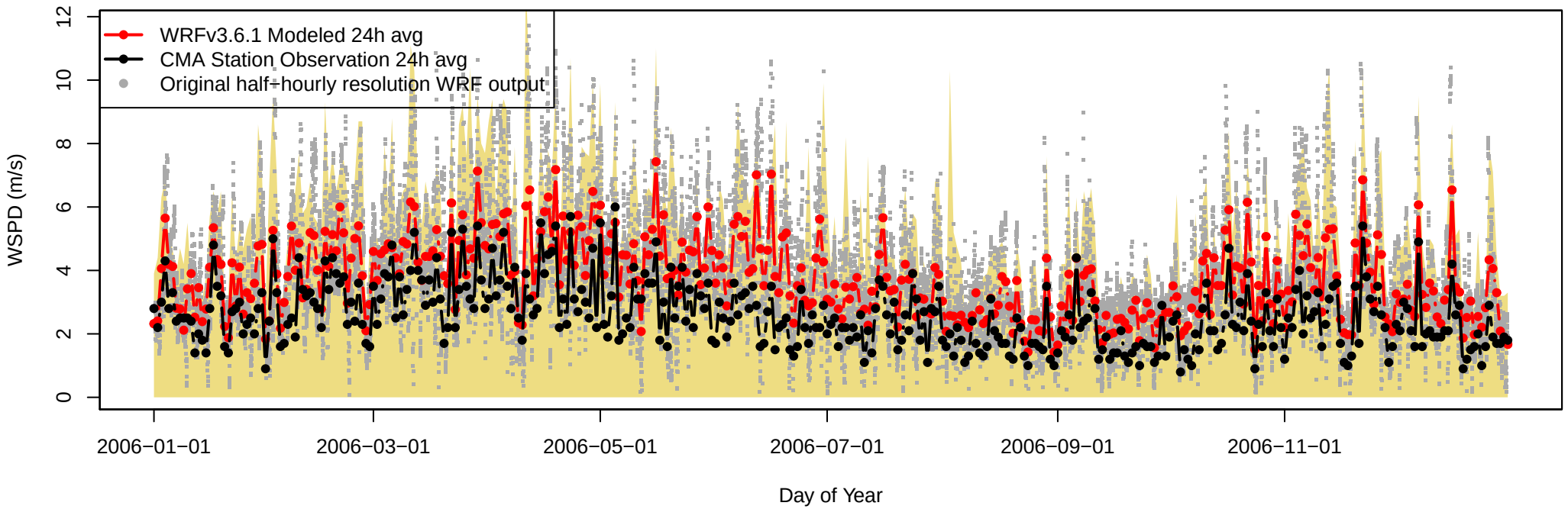


Specific Humidity (mmol/mol) QQ−Plot



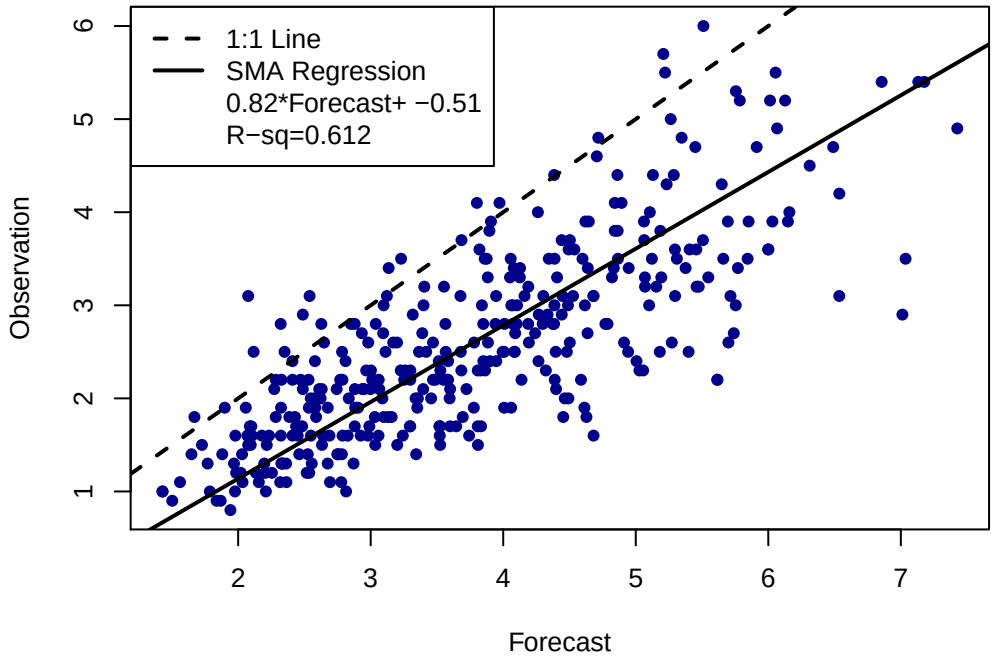

Temp(C) at 2m: CMA Obs Station # 54725 37.48 degN 117.53 degE vs Forecast at 37.559 degN 117.588 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
T2 (C)
40
30
20
10
0
−10
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data.
Temperature (C) Scatterplot
1:1 Line
SMA Regression
0.98*Forecast+ −0.38
R−sq=0.984
Observation
Forecast
Temperature (C) QQ−Plot
1:1 Line
Observation
Forecast

Wind Speed (m/s) at 10m: CMA Obs Station # 54725 37.48 degN 117.53 degE vs Forecast at 37.559 degN 117.588 degE
2006, All Times Local (UTC+8)

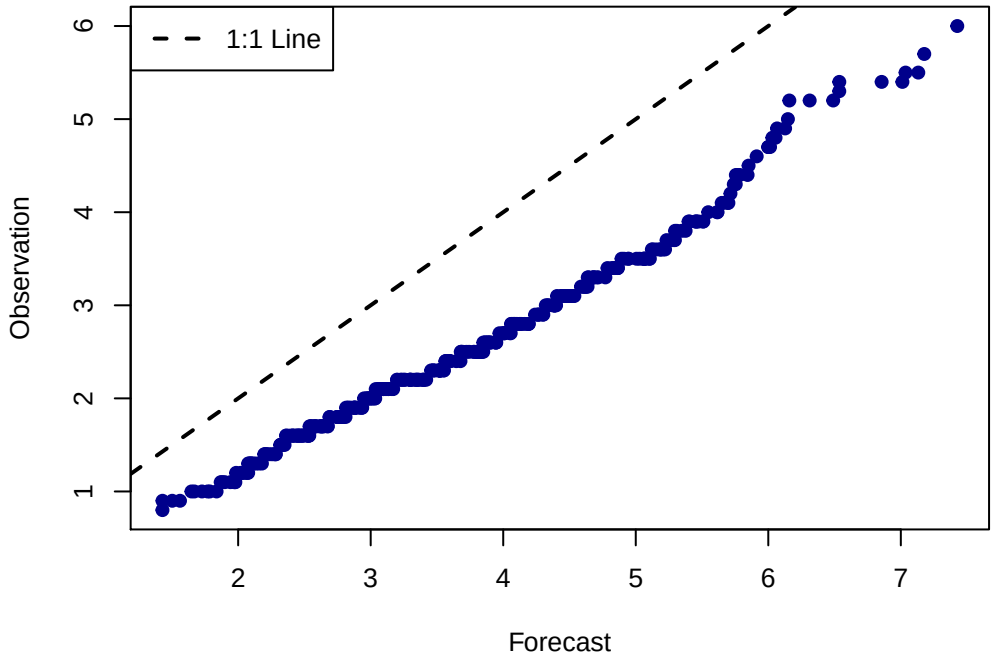


Shaded yellow region indicates daily range of CMA data. Min daily WSPD unavailable but assumed (and set at) 0.

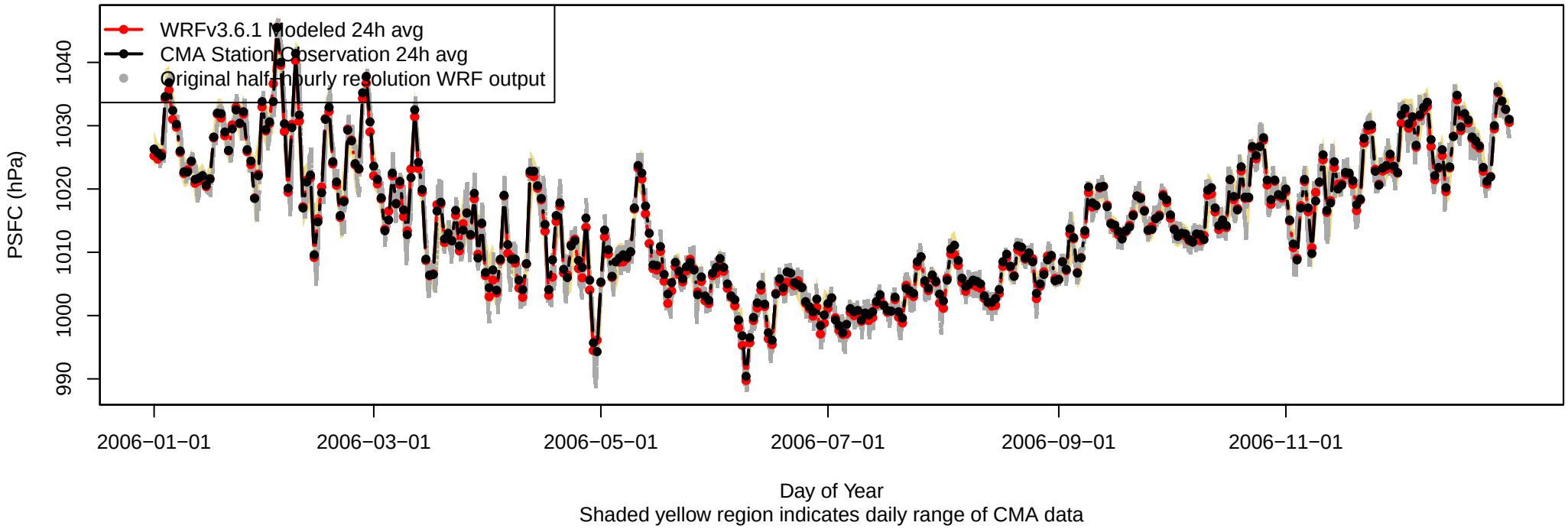
Wind Speed (m/s) Scatterplot

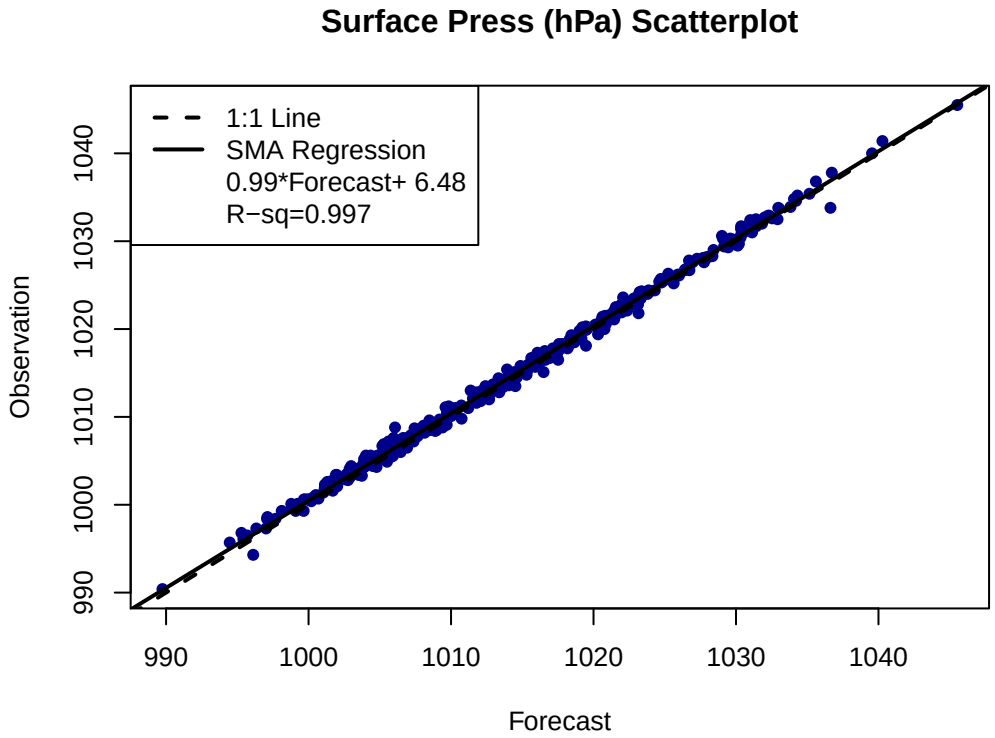


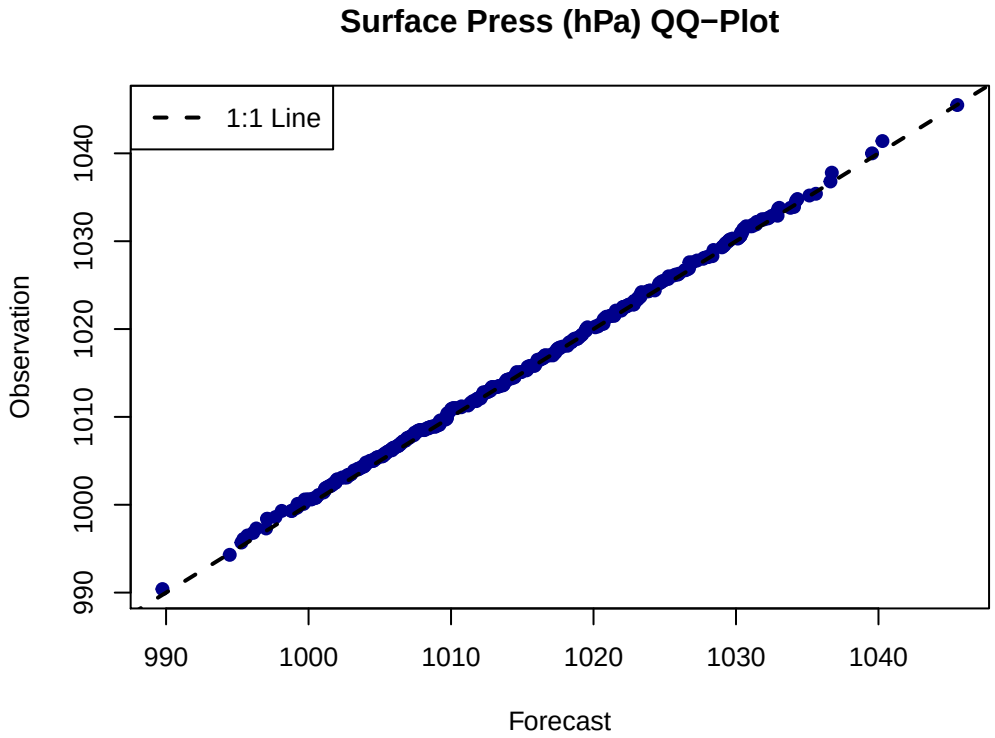
Wind Speed (m/s) QQ−Plot



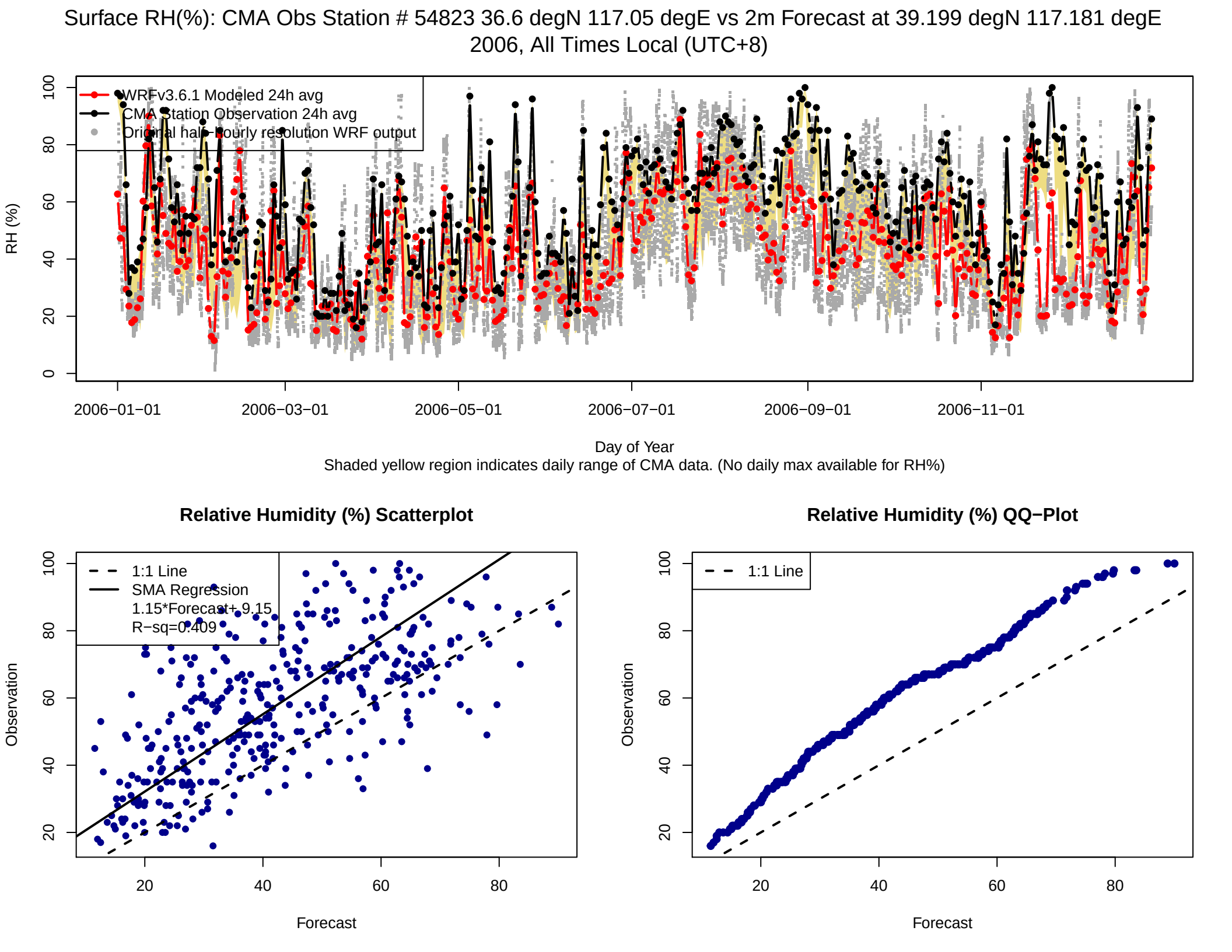
Surface Press (hPa): CMA Obs Station # 54725 37.48 degN 117.53 degE vs Forecast at 37.559 degN 117.588 degE
2006, All Times Local (UTC+8)



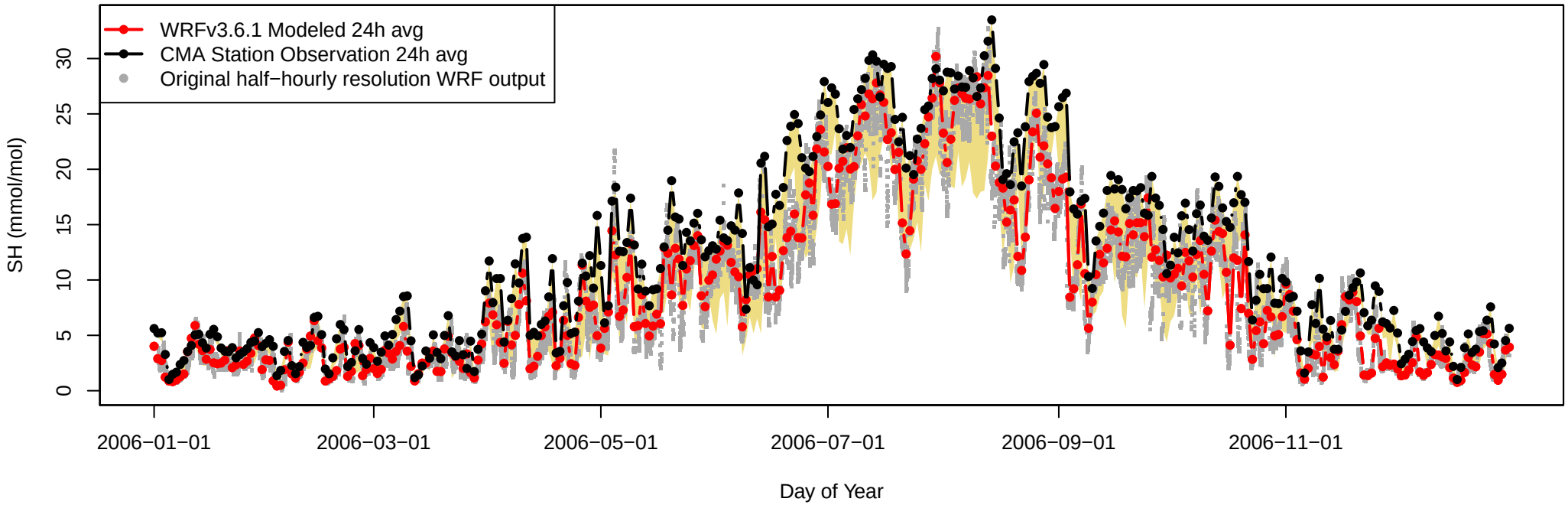




CMA Obs Station # 54823 36.6 degN 117.05 degE
vs Forecast at 39.199 degN 117.181 degE
2006, All Times Local (UTC+8)

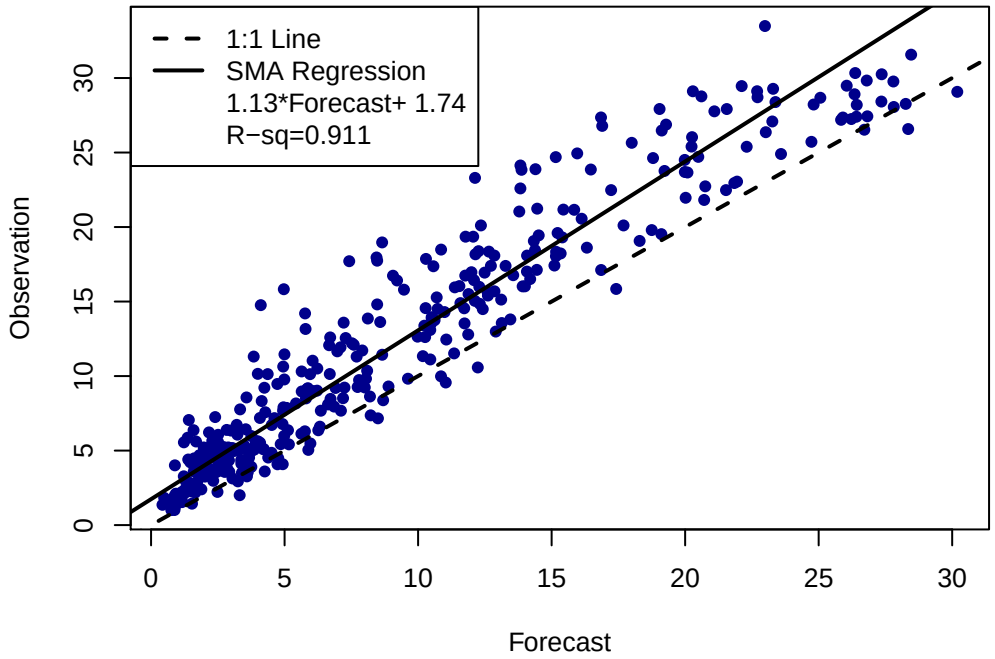

Surface RH(%): CMA Obs Station # 54823 36.6 degN 117.05 degE vs 2m Forecast at 39.199 degN 117.181 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half-hourly resolution WRF output
RH (%)
0
20
40
60
80
100
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data. (No daily max available for RH%)
Relative Humidity (%) Scatterplot
1:1 Line
SMA Regression
1.15*Forecast+ 9.15
R−sq=0.409
Observation
Forecast
20
40
60
80
Relative Humidity (%) QQ−Plot
1:1 Line
Observation
Forecast

SH(mmol/mol) at 2m: CMA Obs Station # 54823 36.6 degN 117.05 degE vs Forecast at 39.199 degN 117.181 degE
2006 All Times Local (UTC+8)

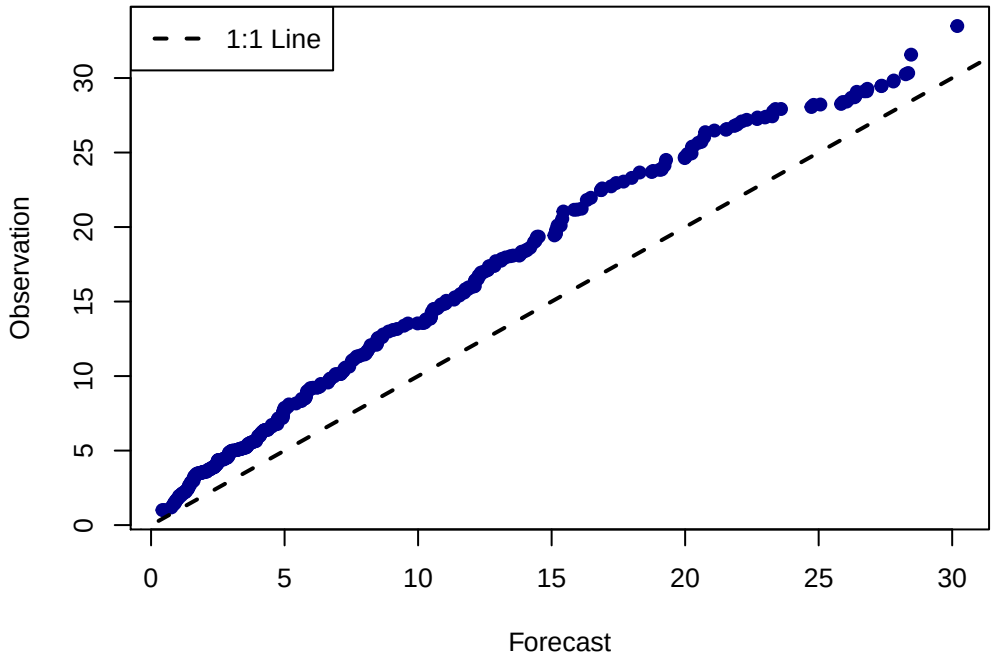


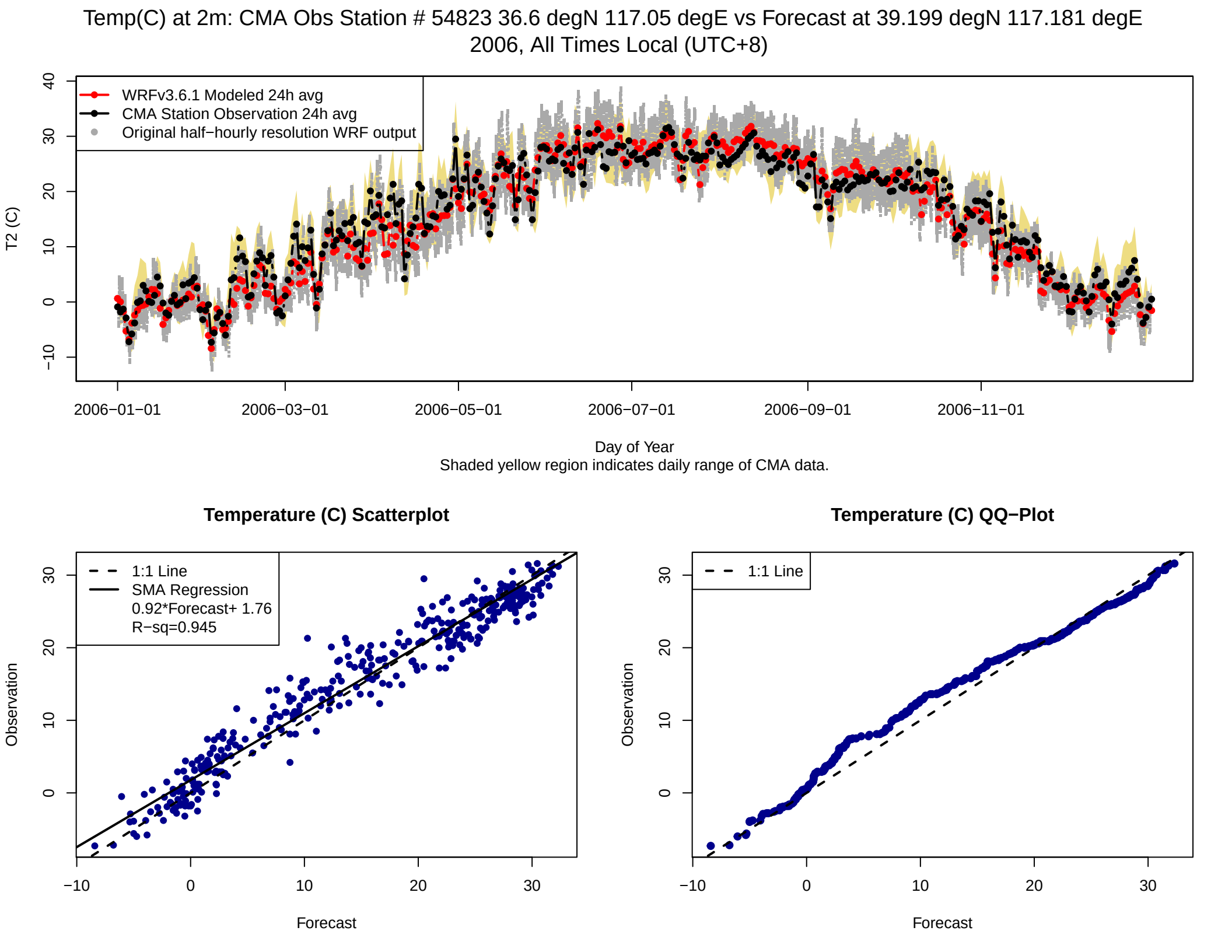
Shaded yellow region indicates daily range of CMA data. (No daily max available for SH)

Specific Humidity (mmol/mol) Scatterplot

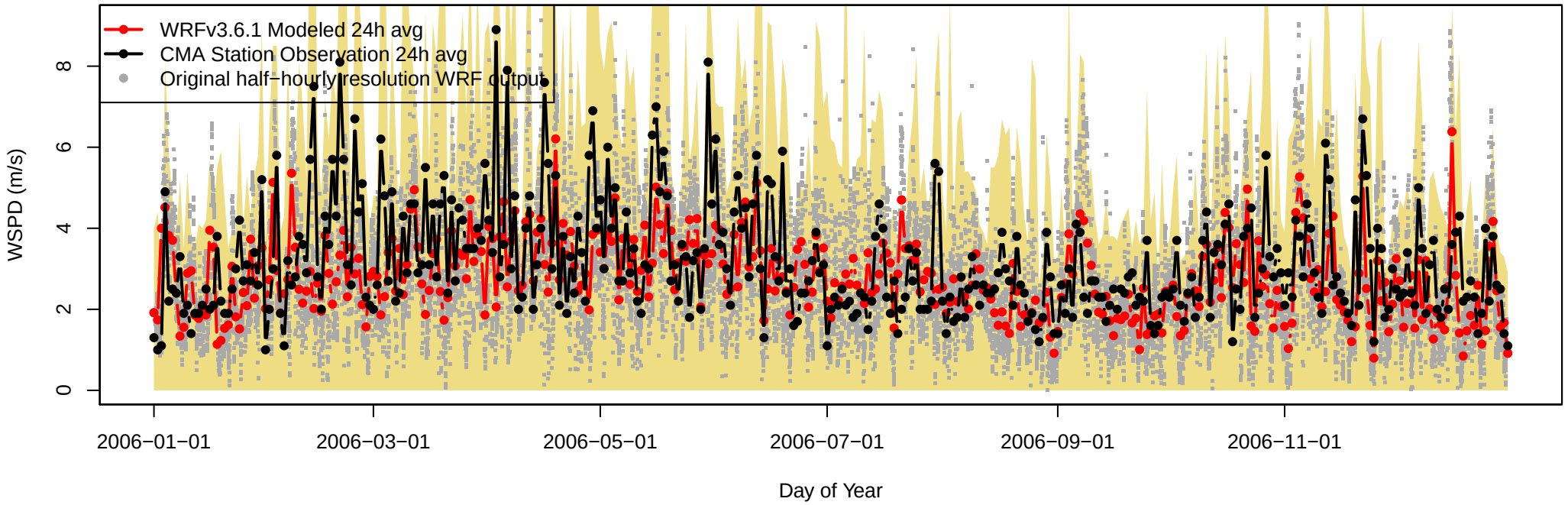


Specific Humidity (mmol/mol) QQ−Plot



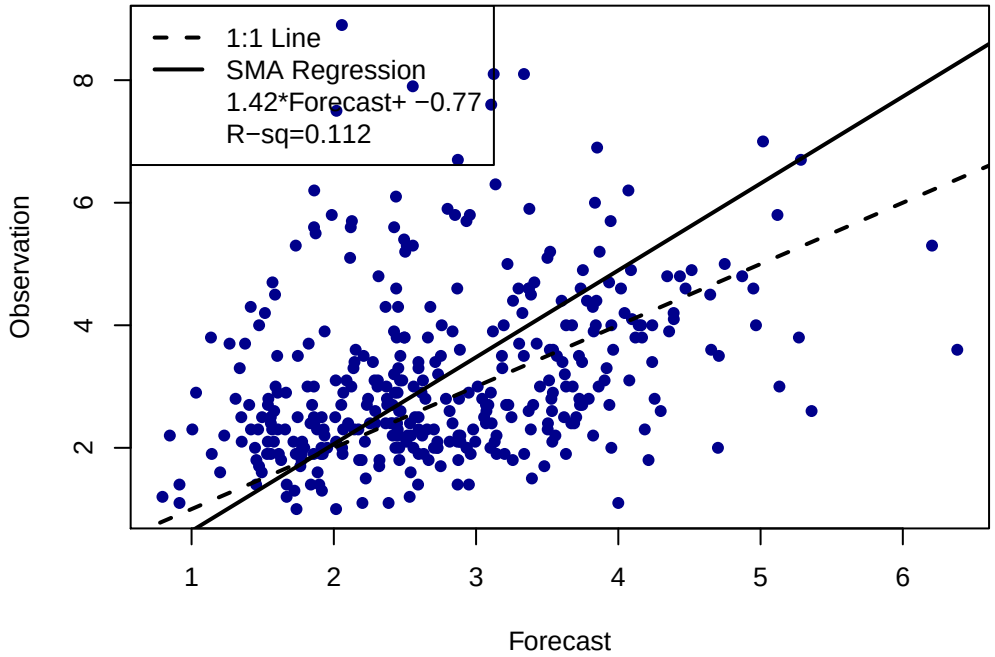

Temp(C) at 2m: CMA Obs Station # 54823 36.6 degN 117.05 degE vs Forecast at 39.199 degN 117.181 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
T2 (C)
40
30
20
10
0
−10
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data.
Temperature (C) Scatterplot
1:1 Line
SMA Regression
0.92*Forecast+ 1.76
R−sq=0.945
Observation
Forecast
−10
0
10
20
30
Temperature (C) QQ−Plot
1:1 Line
Observation
Forecast

Wind Speed (m/s) at 10m: CMA Obs Station # 54823 36.6 degN 117.05 degE vs Forecast at 39.199 degN 117.181 degE
2006, All Times Local (UTC+8)

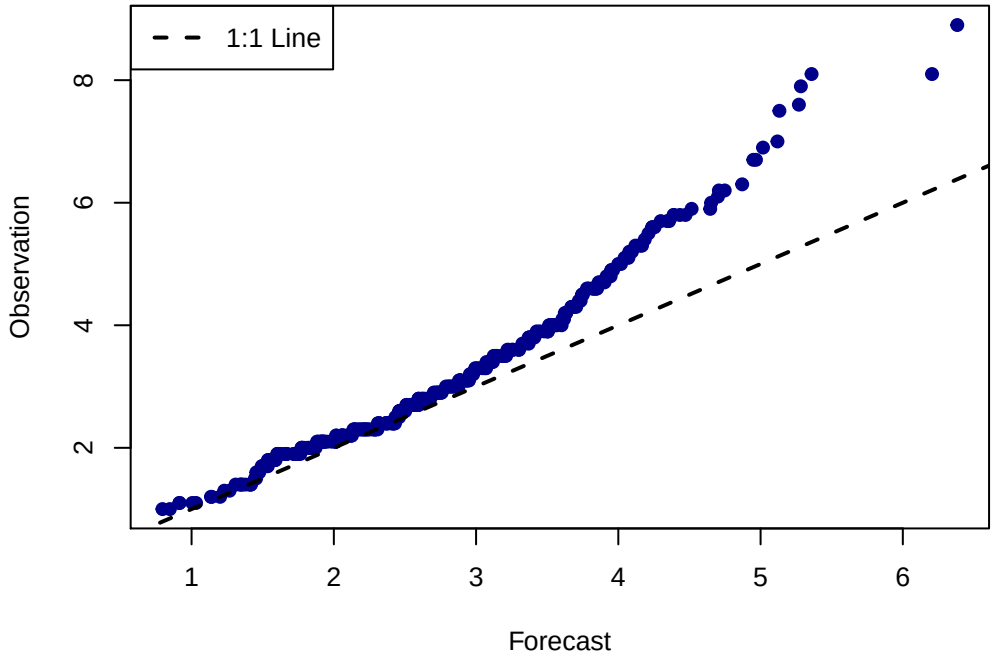


Shaded yellow region indicates daily range of CMA data. Min daily WSPD unavailable but assumed (and set at) 0.

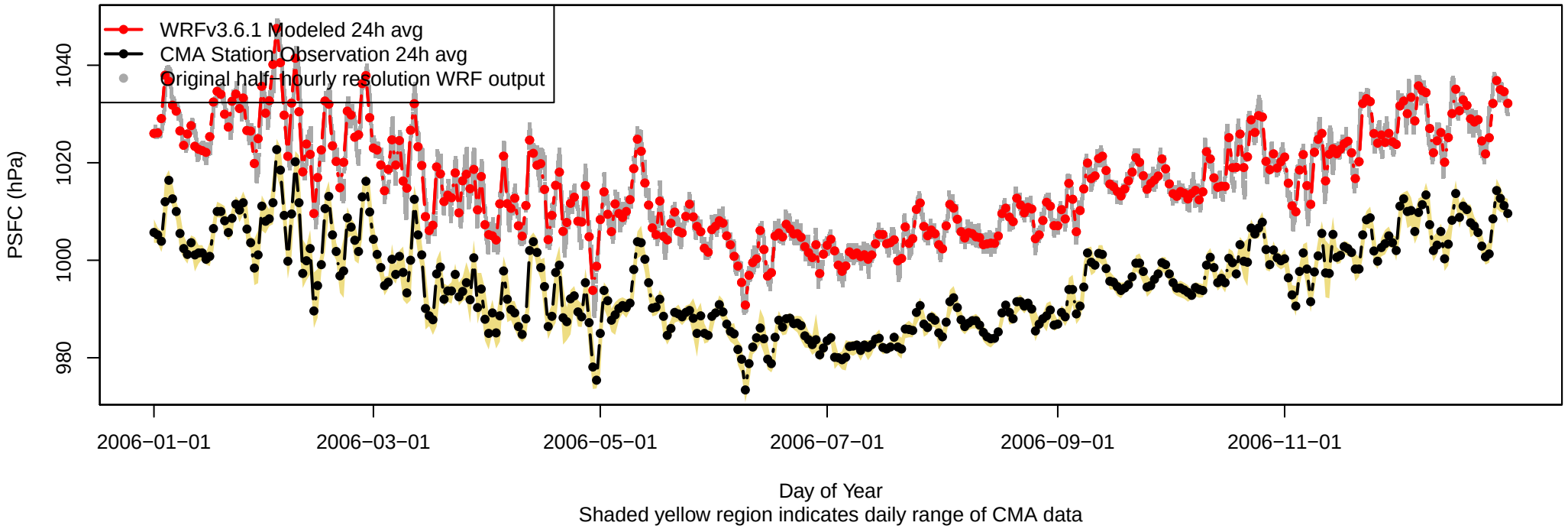
Wind Speed (m/s) Scatterplot

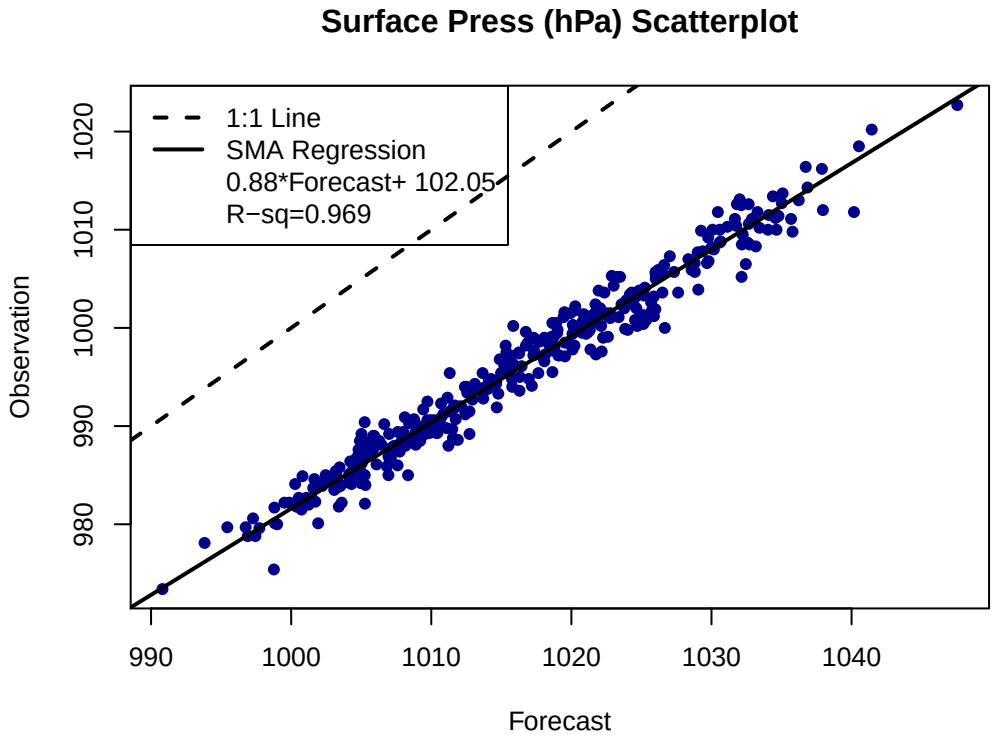


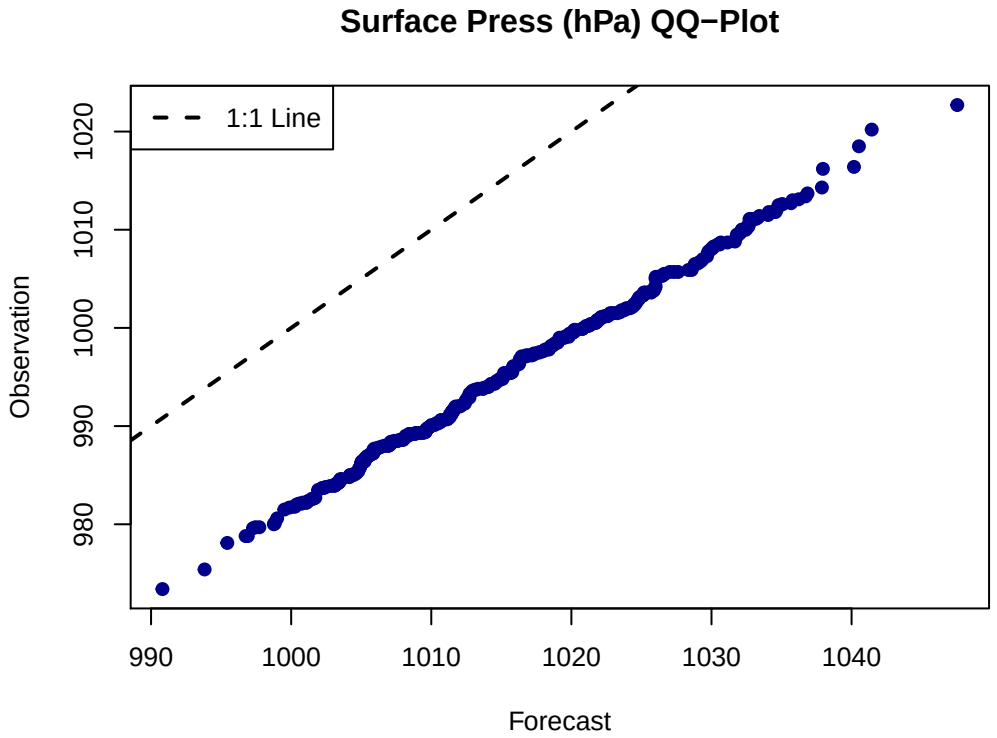
Wind Speed (m/s) QQ−Plot



Surface Press (hPa): CMA Obs Station # 54823 36.6 degN 117.05 degE vs Forecast at 39.199 degN 117.181 degE
2006, All Times Local (UTC+8)

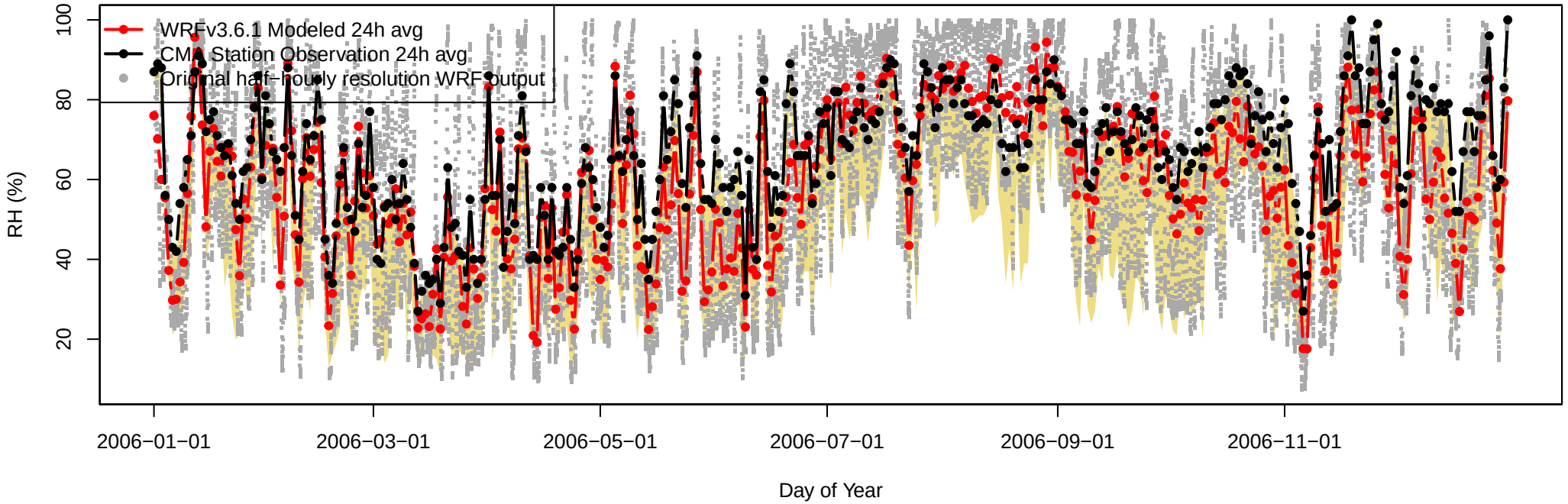






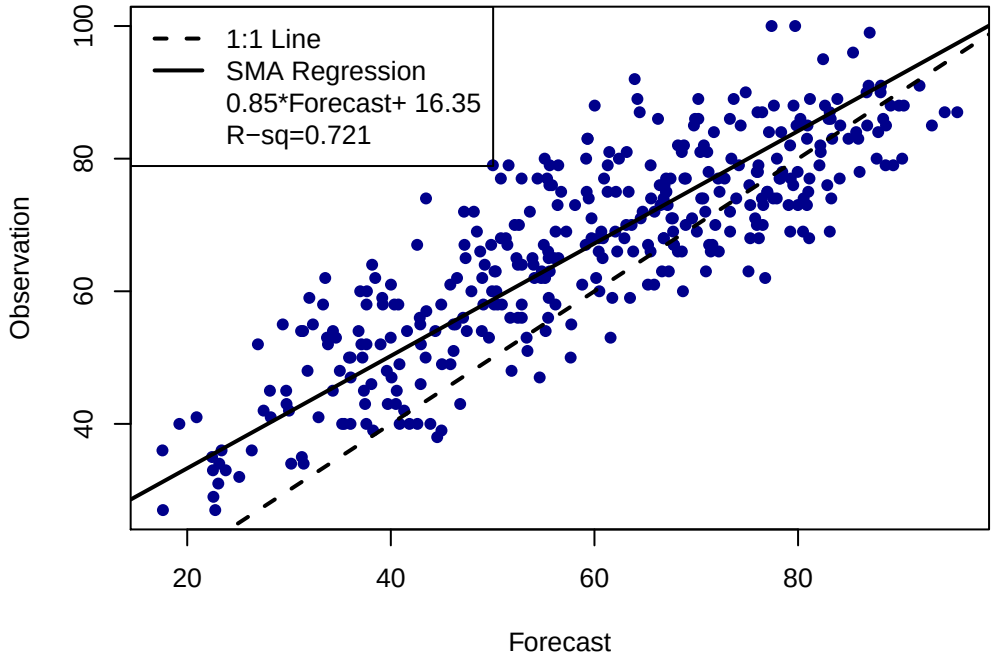
CMA Obs Station # 54843 36.75 degN 119.18 degE
vs Forecast at 36.799 degN 119.326 degE
2006, All Times Local (UTC+8)

Surface RH(%): CMA Obs Station # 54843 36.75 degN 119.18 degE vs 2m Forecast at 36.799 degN 119.326 degE
2006, All Times Local (UTC+8)

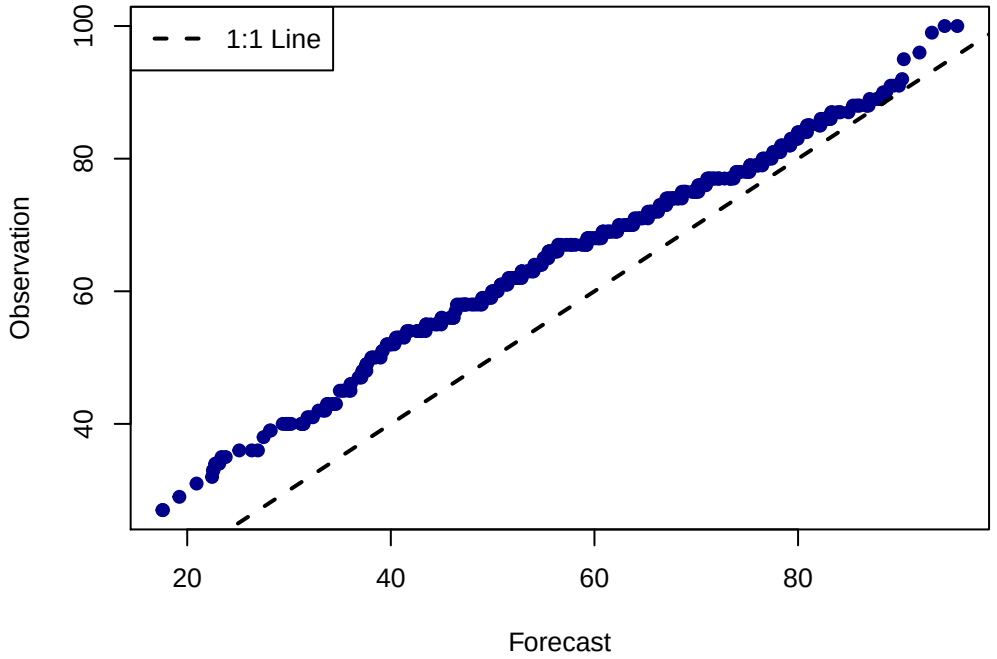


Shaded yellow region indicates daily range of CMA data. (No daily max available for RH%)

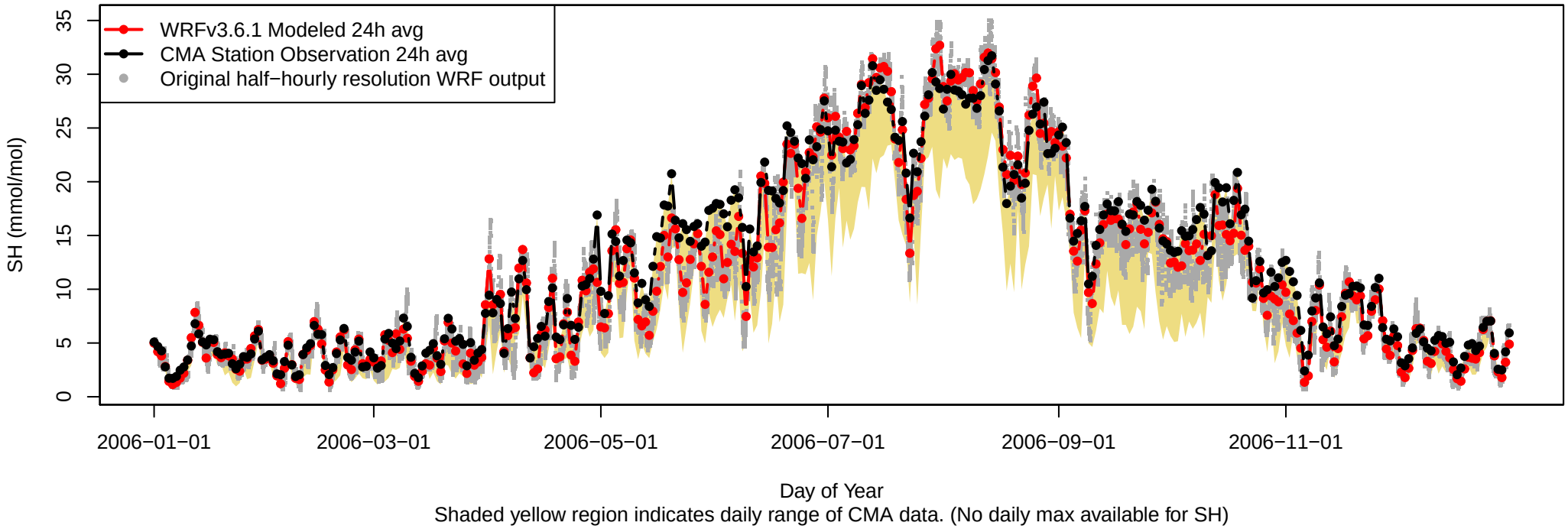
Relative Humidity (%) Scatterplot



Relative Humidity (%) QQ-Plot

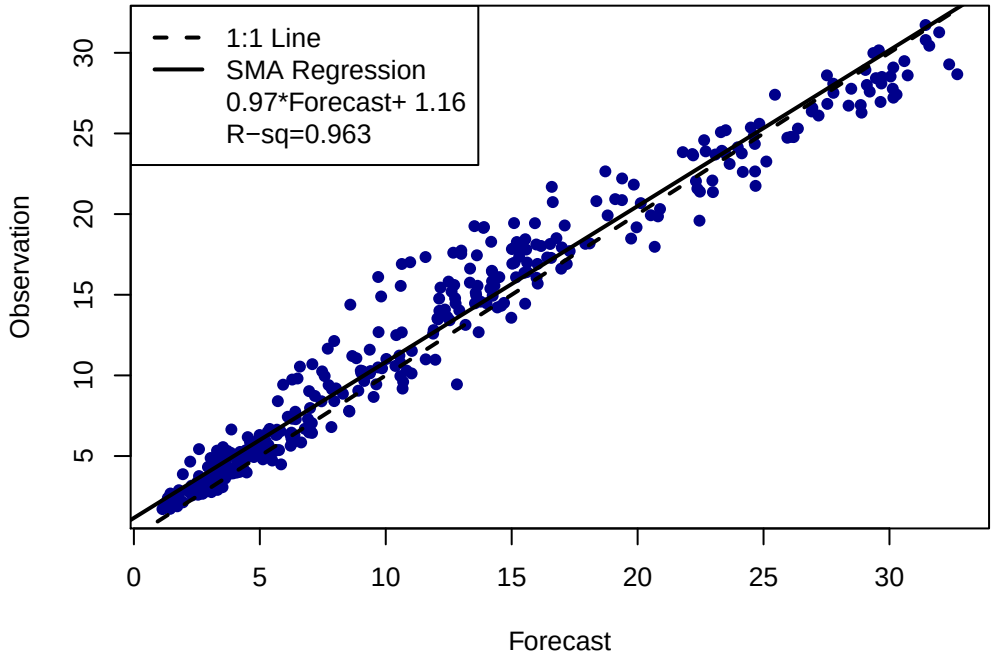


SH(mmol/mol) at 2m: CMA Obs Station # 54843 36.75 degN 119.18 degE vs Forecast at 36.799 degN 119.326 degE
2006 All Times Local (UTC+8)

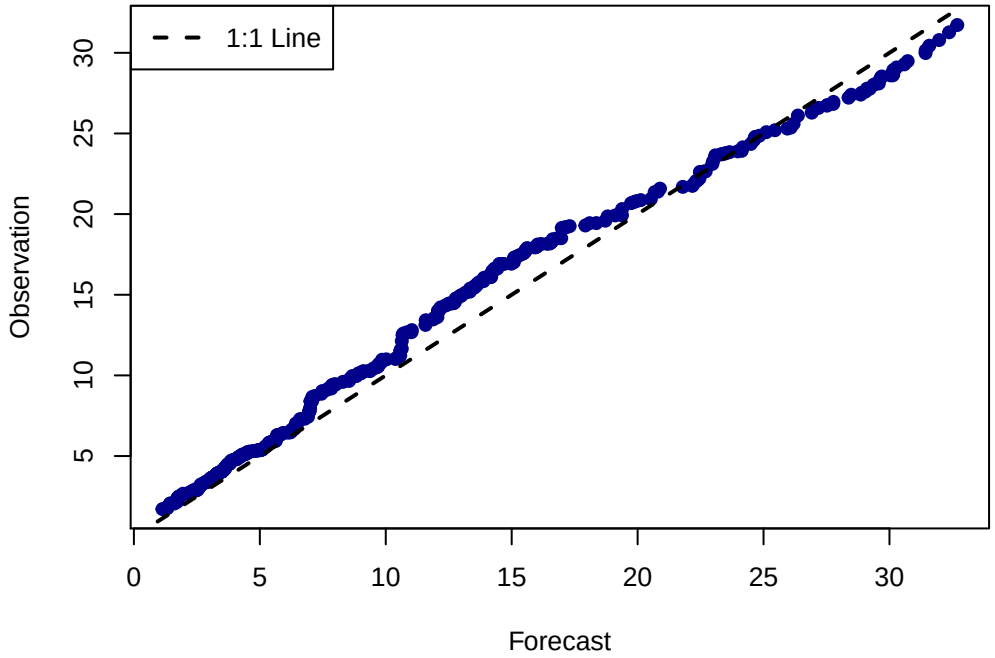


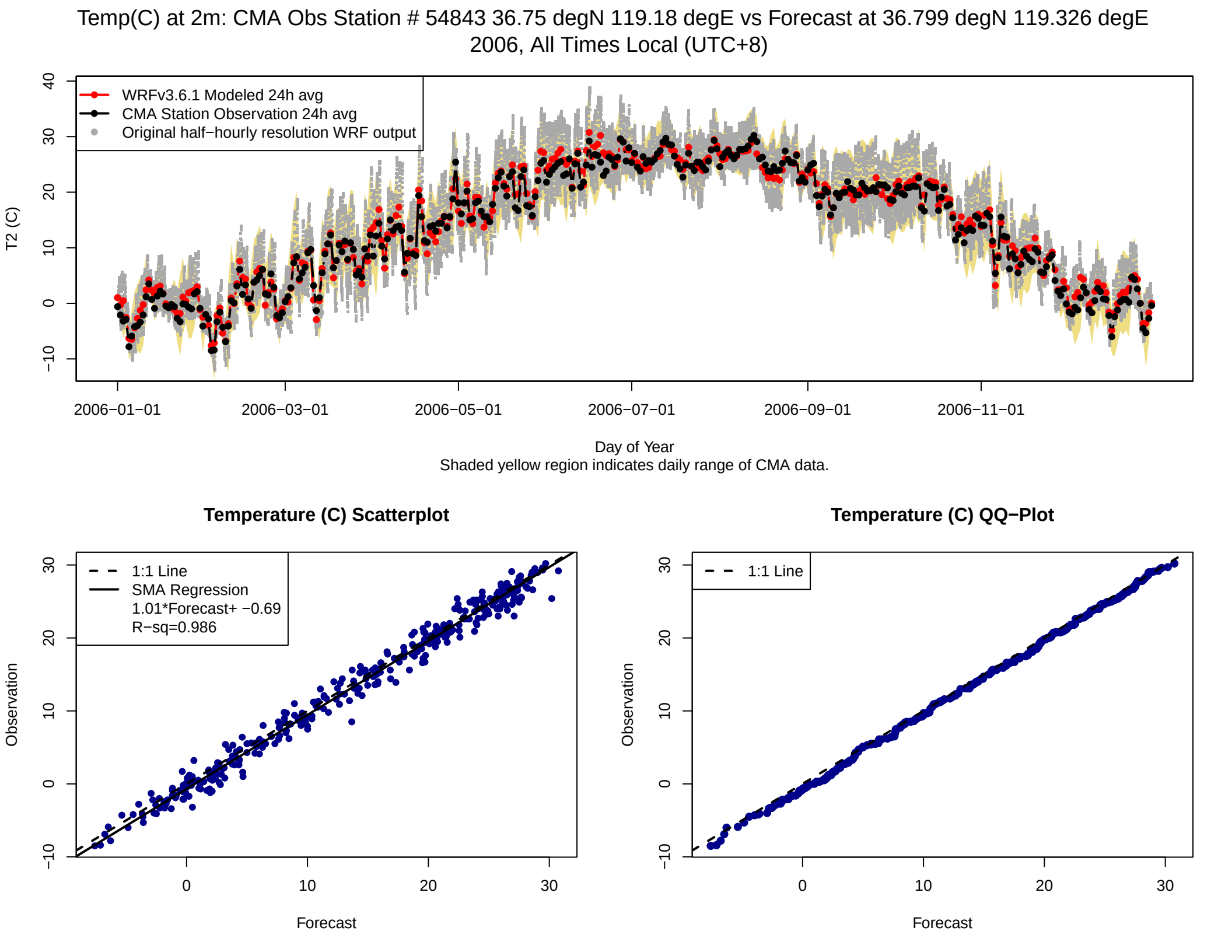
Shaded yellow region indicates daily range of CMA data. (No daily max available for SH)

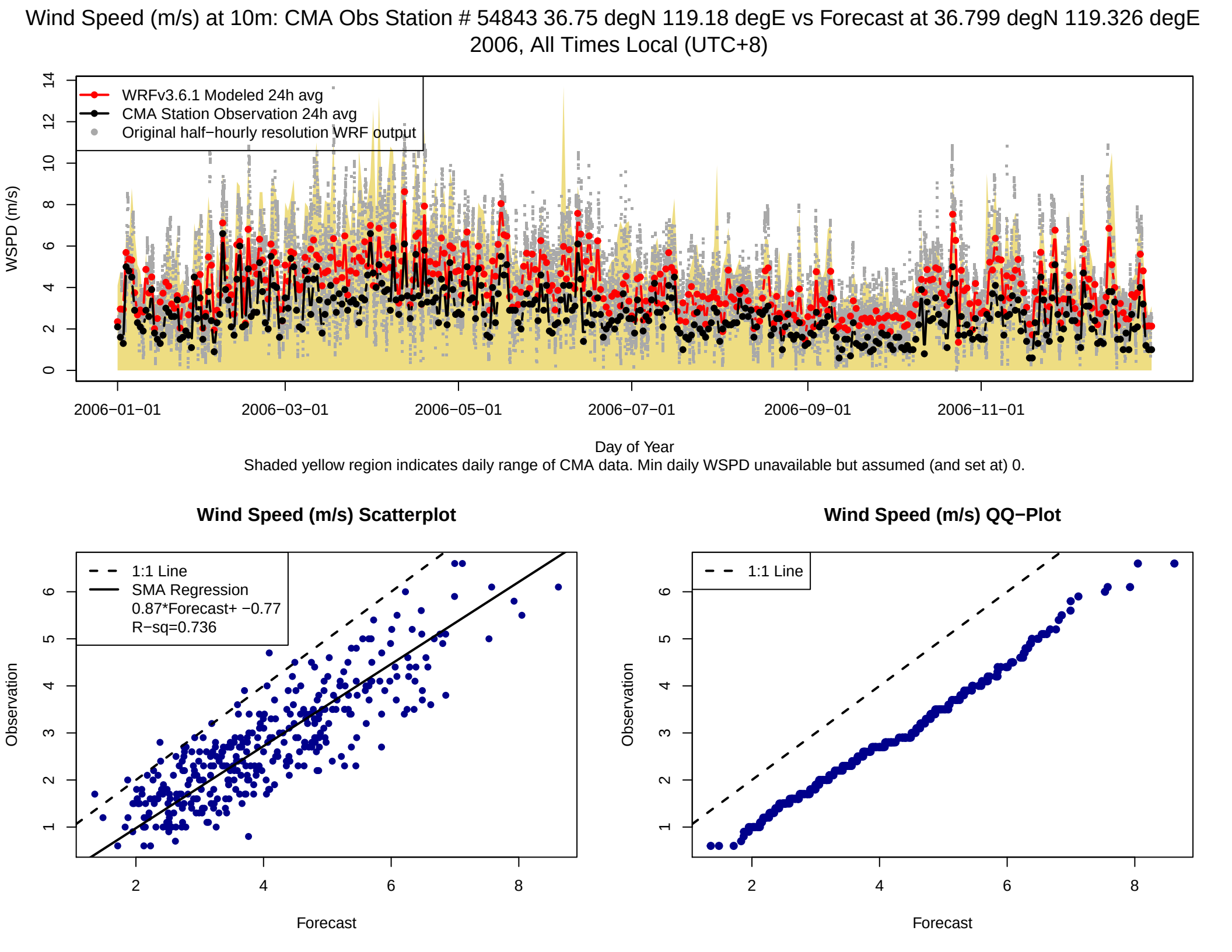
Specific Humidity (mmol/mol) Scatterplot



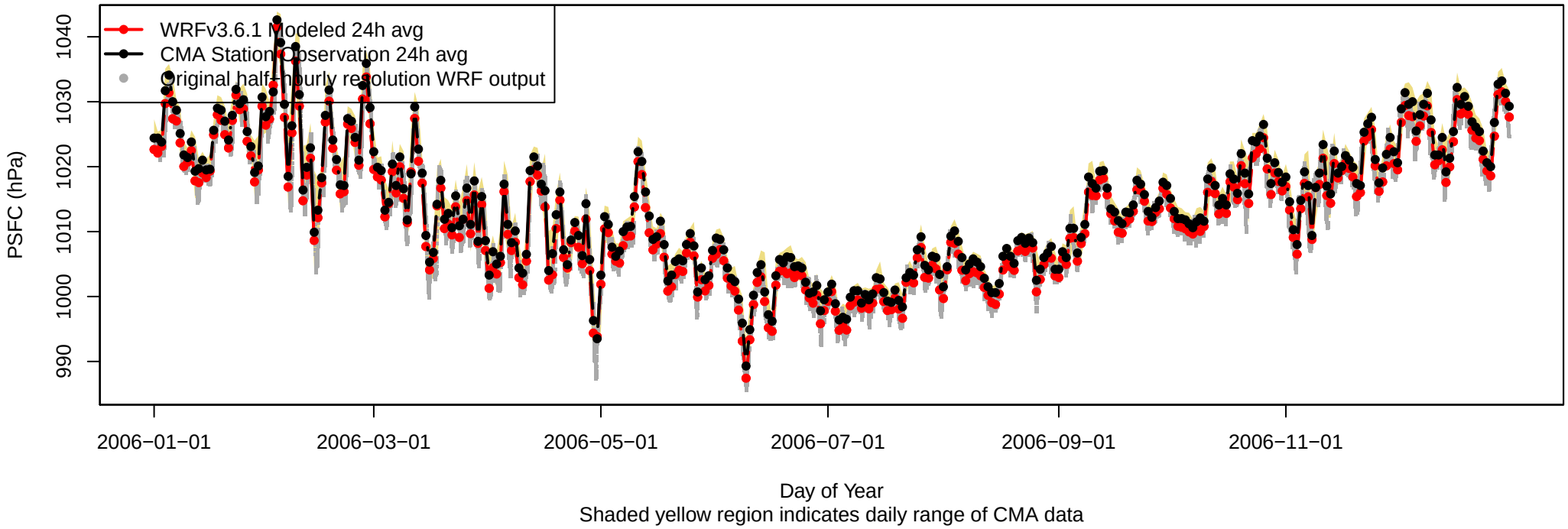
Specific Humidity (mmol/mol) QQ−Plot

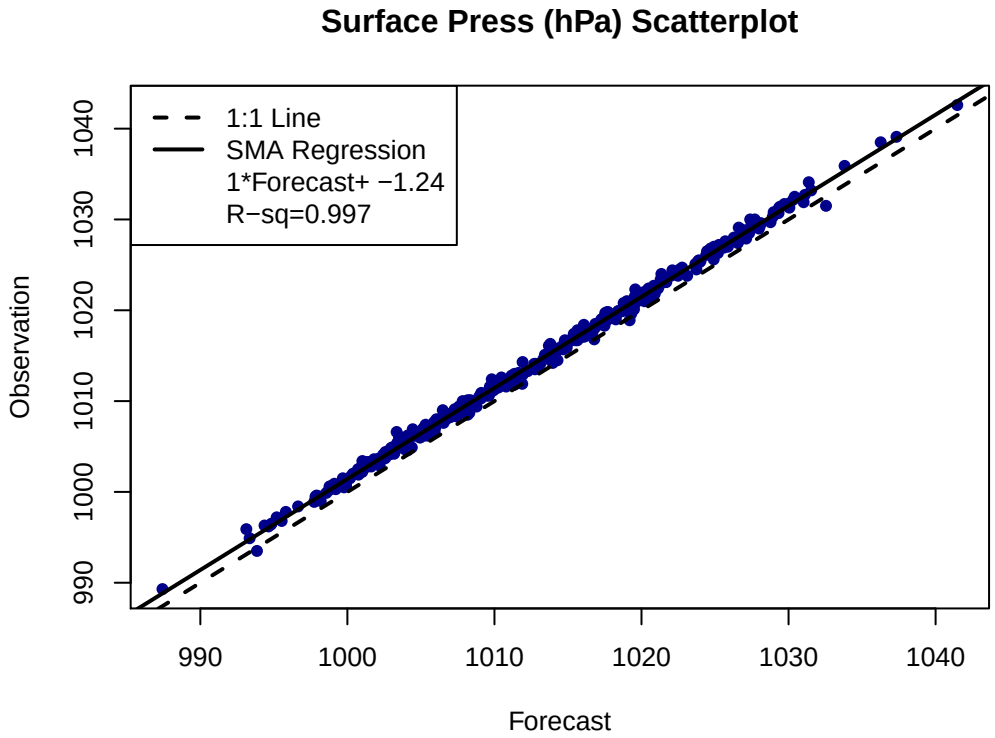


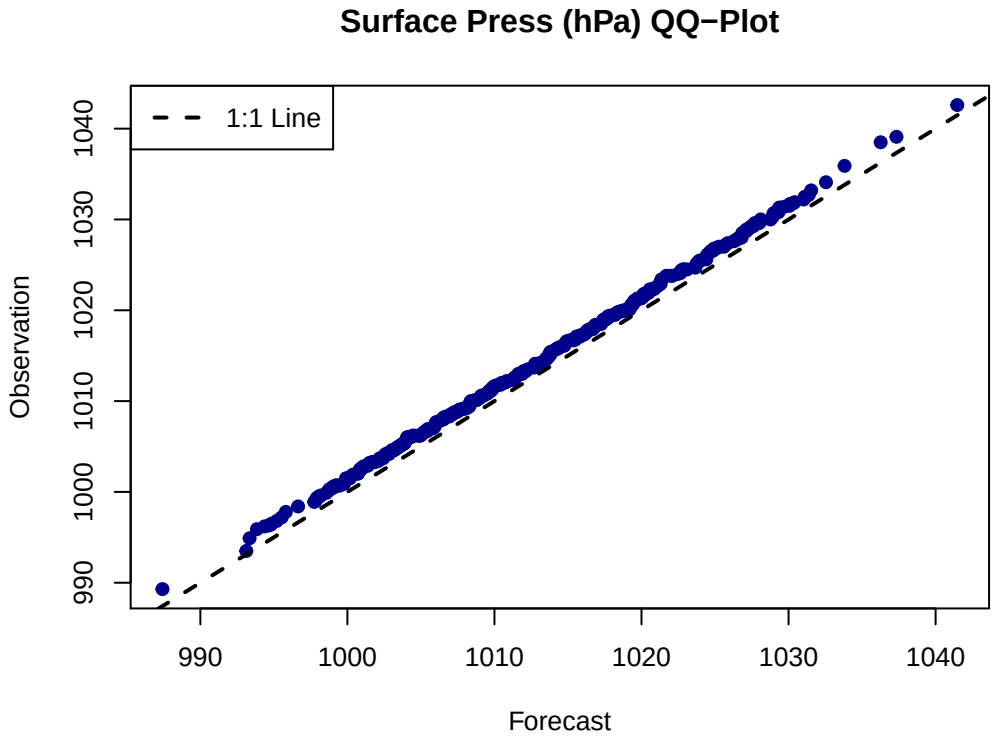

Temp(C) at 2m: CMA Obs Station # 54843 36.75 degN 119.18 degE vs Forecast at 36.799 degN 119.326 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
T2 (C)
40
30
20
10
0
−10
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data.
Temperature (C) Scatterplot
1:1 Line
SMA Regression
1.01*Forecast+ −0.69
R−sq=0.986
Observation
Forecast
Temperature (C) QQ−Plot
1:1 Line
Observation
Forecast


Wind Speed (m/s) at 10m: CMA Obs Station # 54843 36.75 degN 119.18 degE vs Forecast at 36.799 degN 119.326 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
WSPD (m/s)
0
2
4
6
8
10
12
14
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data. Min daily WSPD unavailable but assumed (and set at) 0.
Wind Speed (m/s) Scatterplot
1:1 Line
SMA Regression
0.87*Forecast+ −0.77
R−sq=0.736
Observation
Forecast
1
2
3
4
5
6
2
4
6
8
Wind Speed (m/s) QQ−Plot
1:1 Line
Observation
Forecast

Surface Press (hPa): CMA Obs Station # 54843 36.75 degN 119.18 degE vs Forecast at 36.799 degN 119.326 degE
2006, All Times Local (UTC+8)

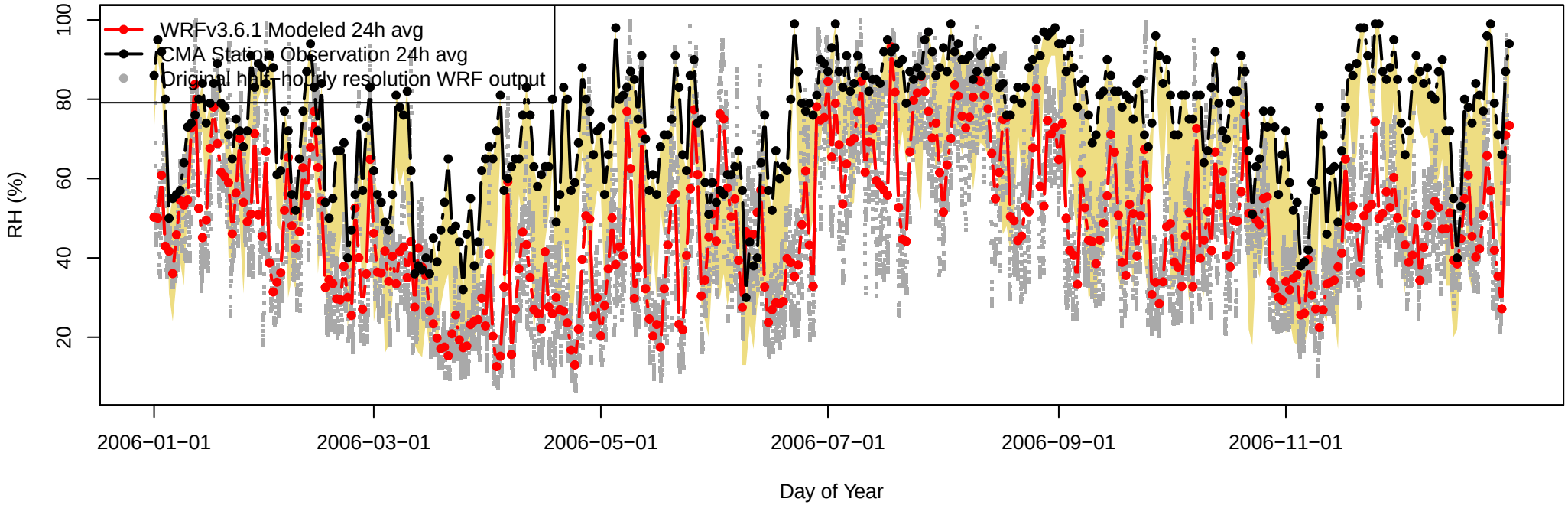






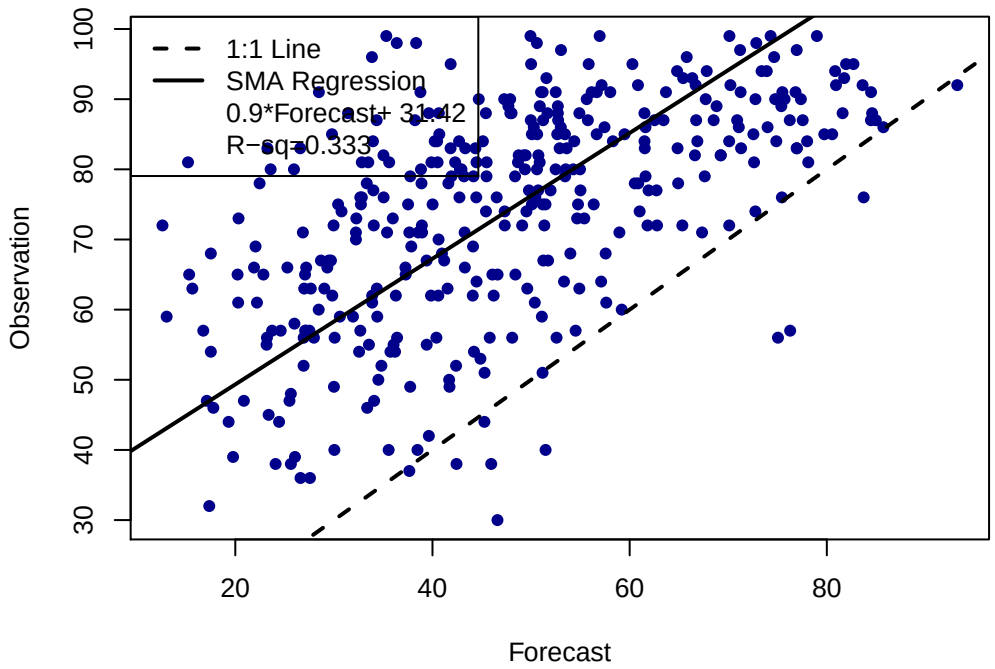
CMA Obs Station # 54909 35.1 degN 115.55 degE
vs Forecast at 40.499 degN 115.581 degE
2006, All Times Local (UTC+8)

Surface RH(%): CMA Obs Station # 54909 35.1 degN 115.55 degE vs 2m Forecast at 40.499 degN 115.581 degE
2006, All Times Local (UTC+8)

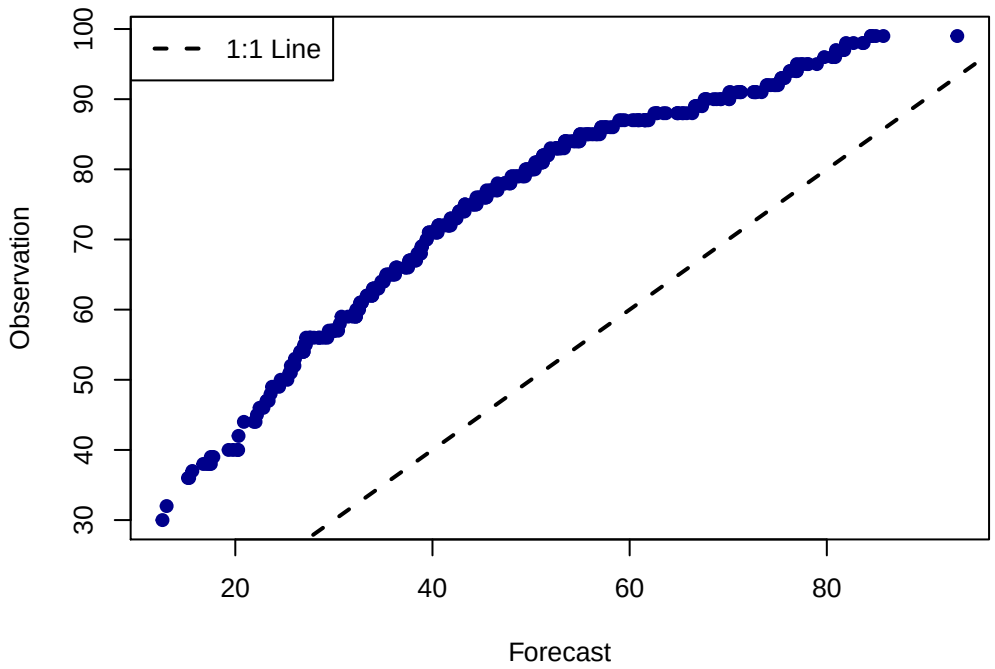


Shaded yellow region indicates daily range of CMA data. (No daily max available for RH%)

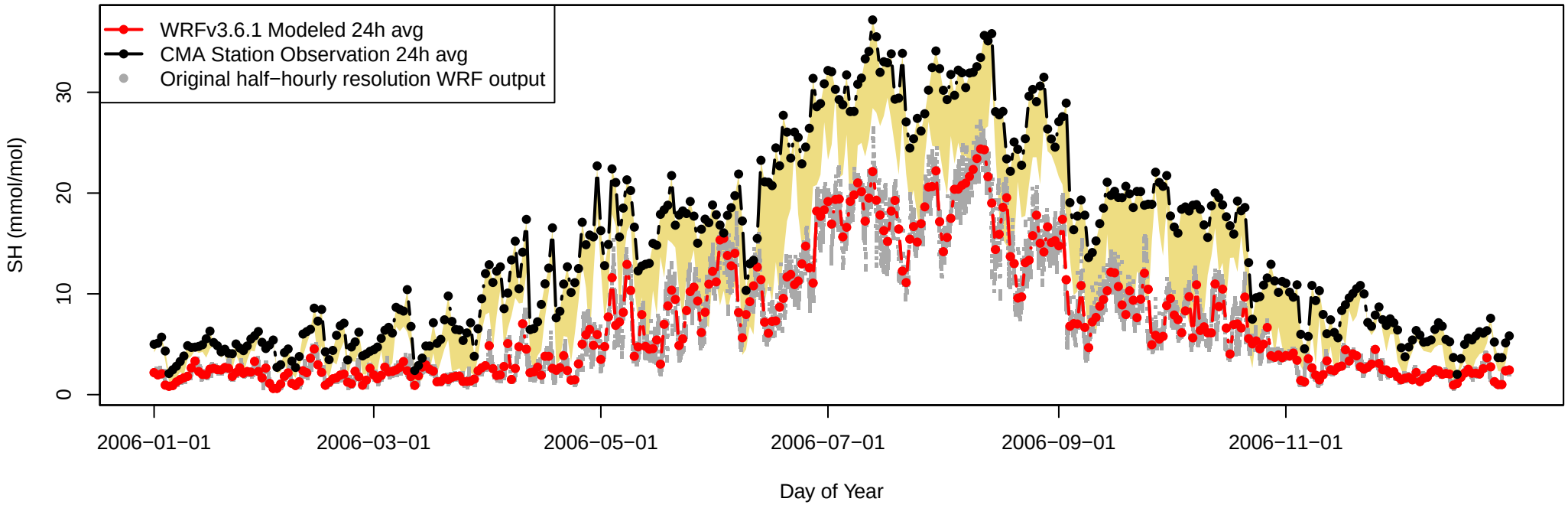
Relative Humidity (%) Scatterplot



Relative Humidity (%) QQ−Plot

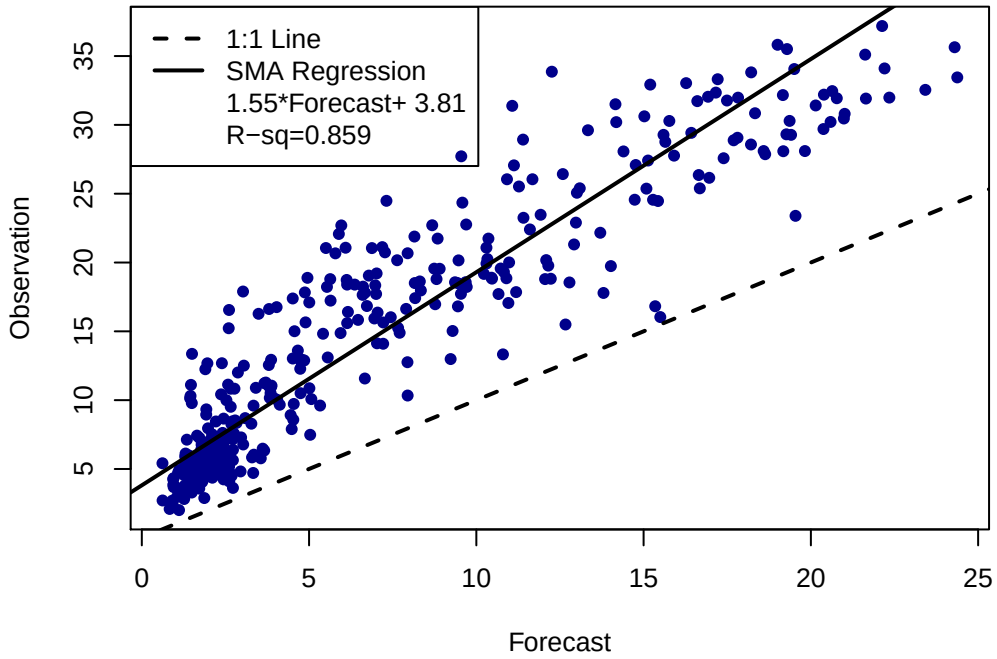


SH(mmol/mol) at 2m: CMA Obs Station # 54909 35.1 degN 115.55 degE vs Forecast at 40.499 degN 115.581 degE
2006 All Times Local (UTC+8)

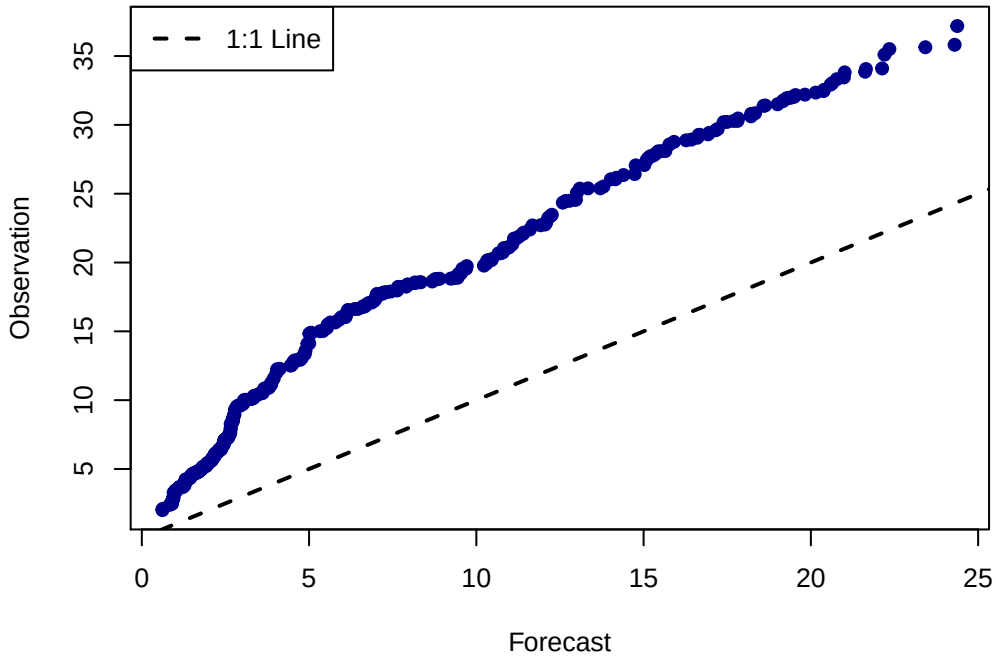


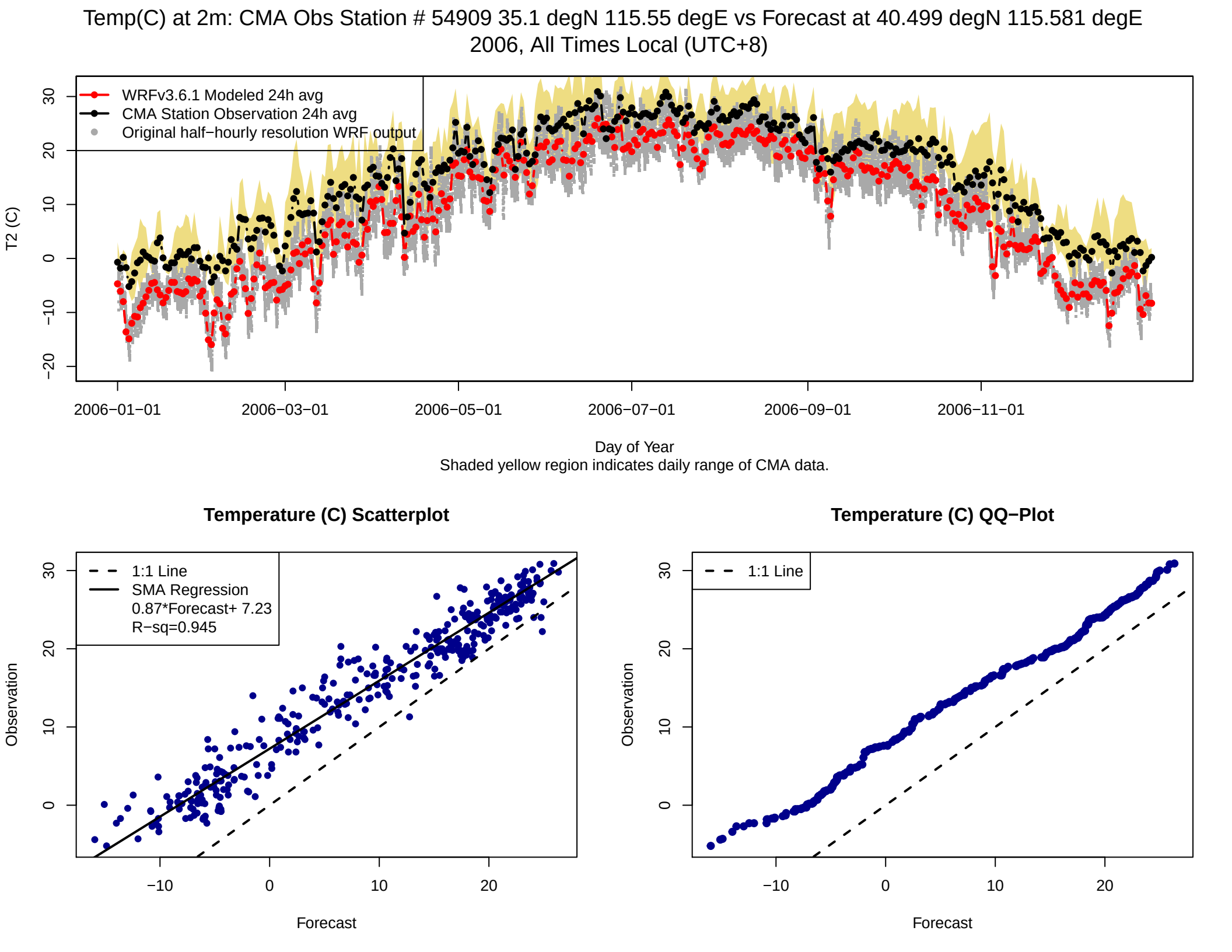
Shaded yellow region indicates daily range of CMA data. (No daily max available for SH)

Specific Humidity (mmol/mol) Scatterplot

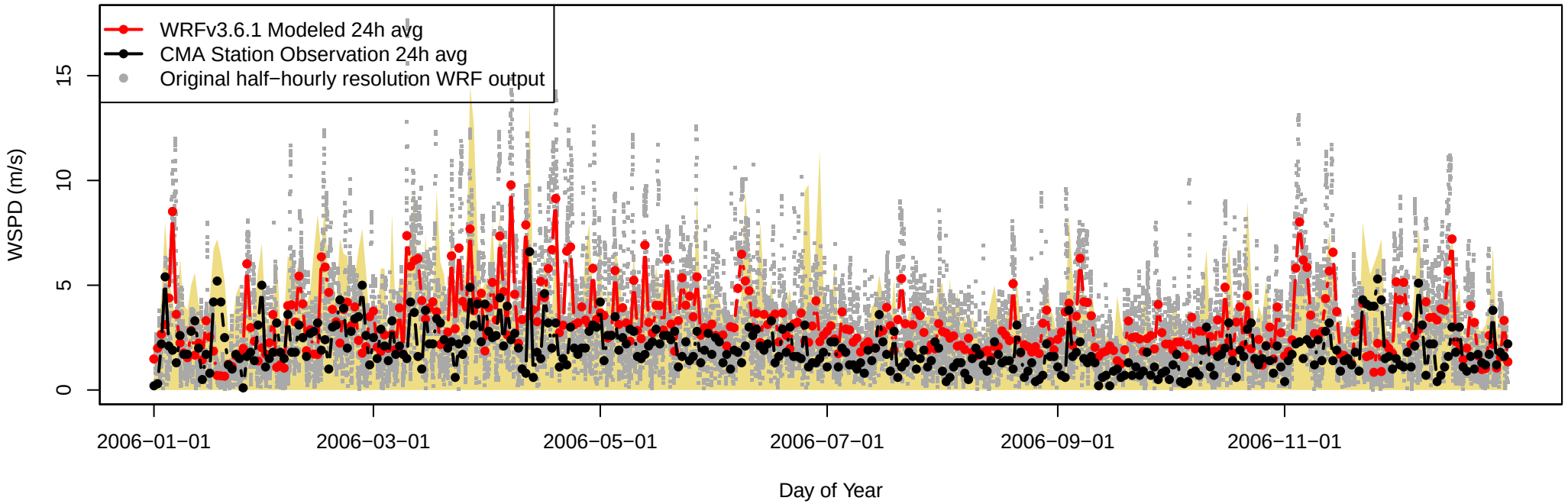


Specific Humidity (mmol/mol) QQ−Plot



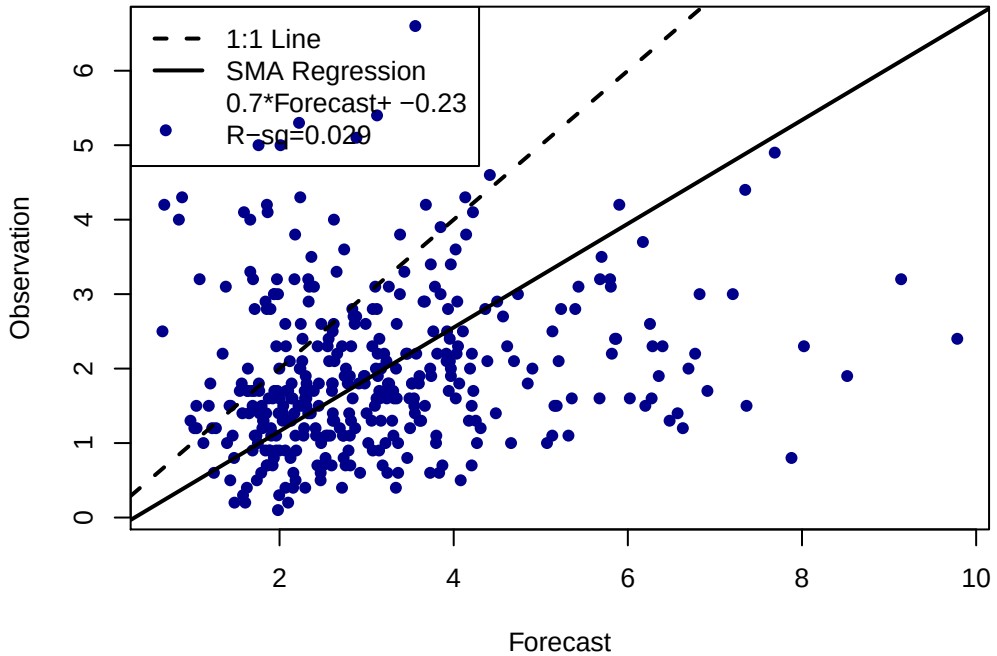

Temp(C) at 2m: CMA Obs Station # 54909 35.1 degN 115.55 degE vs Forecast at 40.499 degN 115.581 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
T2 (C)
30
20
10
0
−10
−20
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data.
Temperature (C) Scatterplot
1:1 Line
SMA Regression
0.87*Forecast+ 7.23
R−sq=0.945
Observation
Forecast
−10
0
10
20
Temperature (C) QQ−Plot
1:1 Line
Observation
Forecast

Wind Speed (m/s) at 10m: CMA Obs Station # 54909 35.1 degN 115.55 degE vs Forecast at 40.499 degN 115.581 degE
2006, All Times Local (UTC+8)

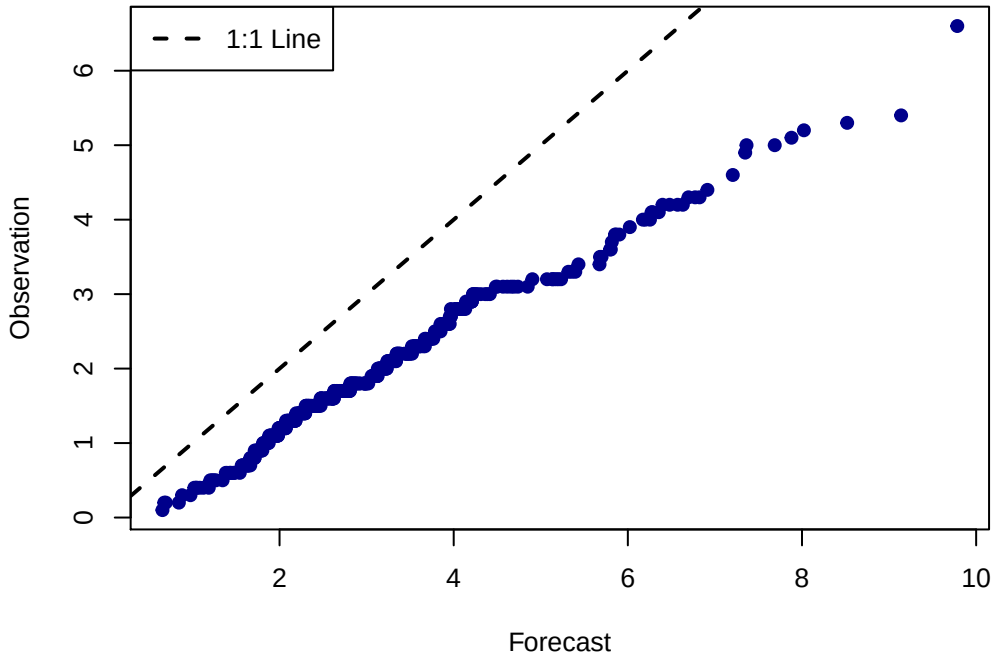


Shaded yellow region indicates daily range of CMA data. Min daily WSPD unavailable but assumed (and set at) 0.

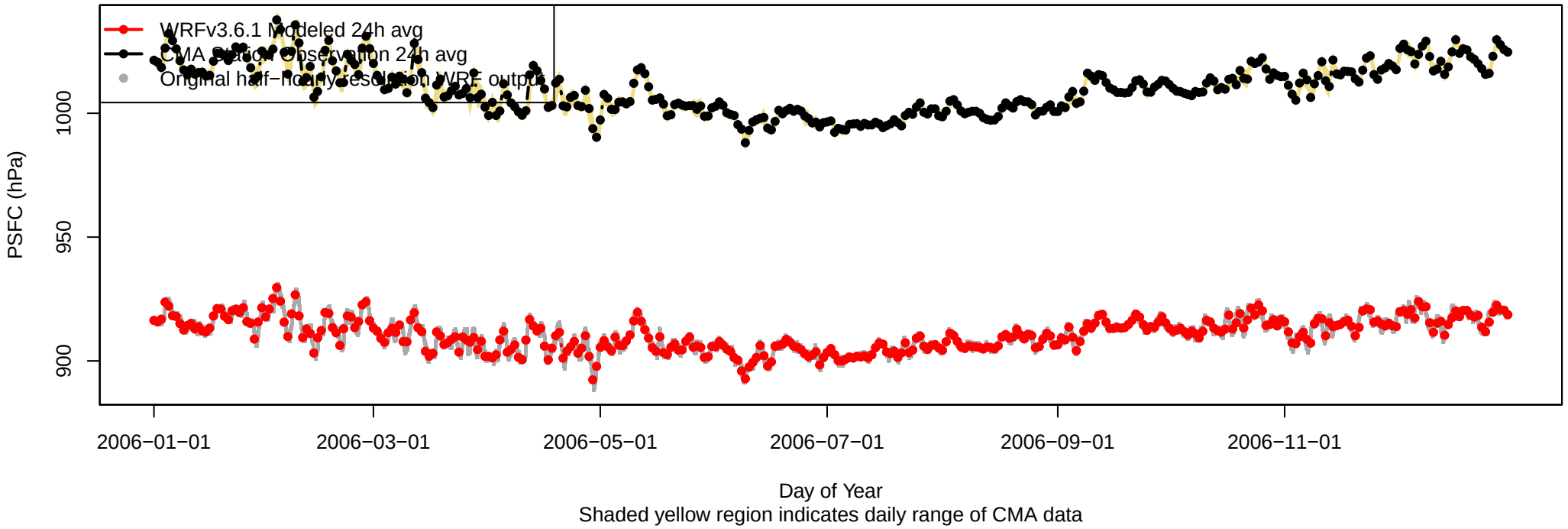
Wind Speed (m/s) Scatterplot



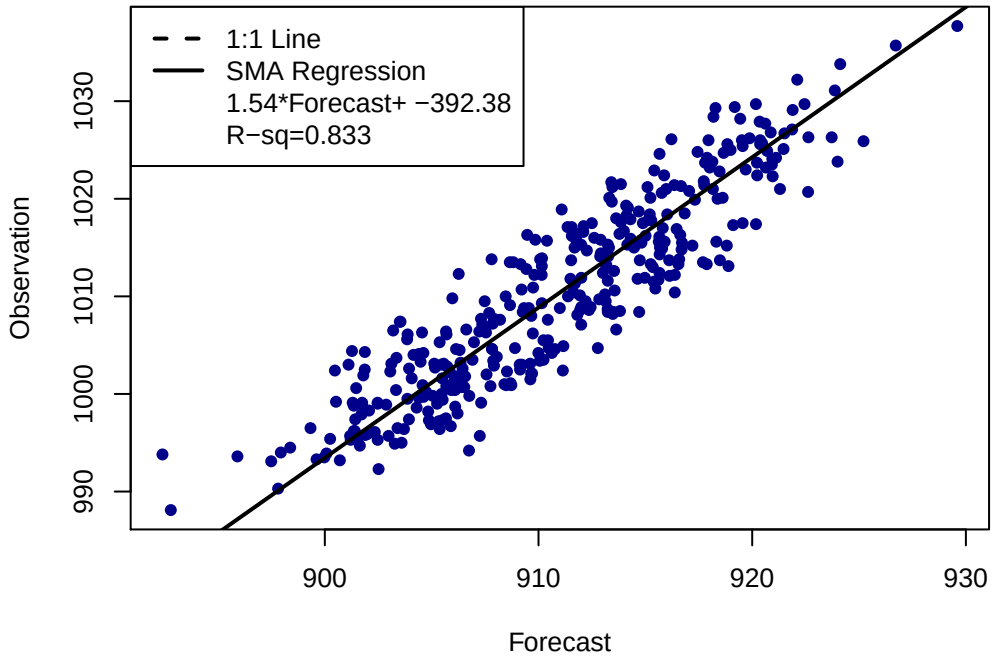
Wind Speed (m/s) QQ−Plot



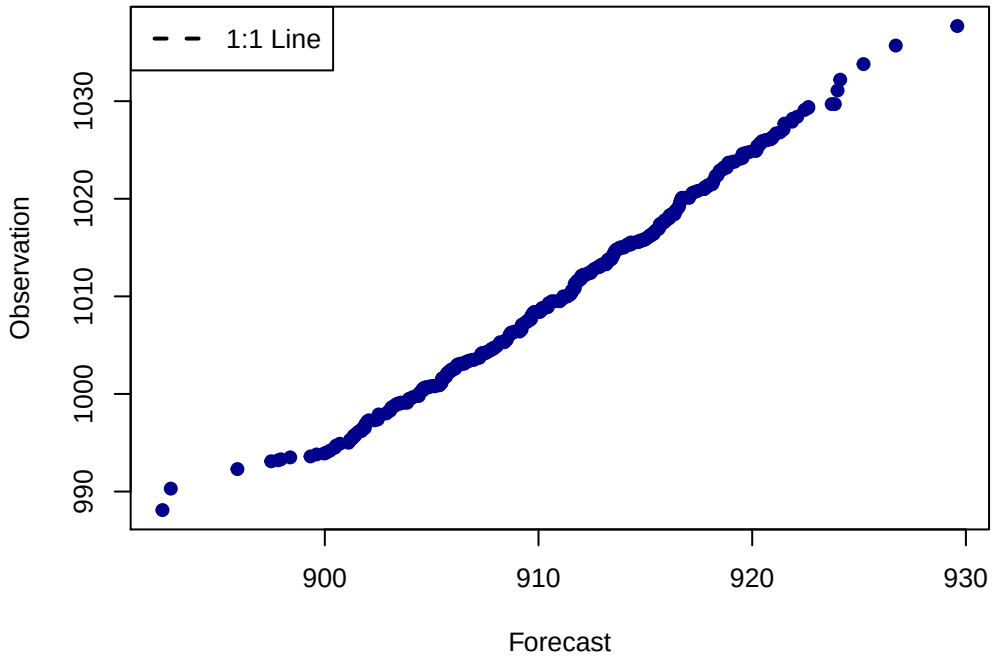
Surface Press (hPa): CMA Obs Station # 54909 35.1 degN 115.55 degE vs Forecast at 40.499 degN 115.581 degE
2006, All Times Local (UTC+8)



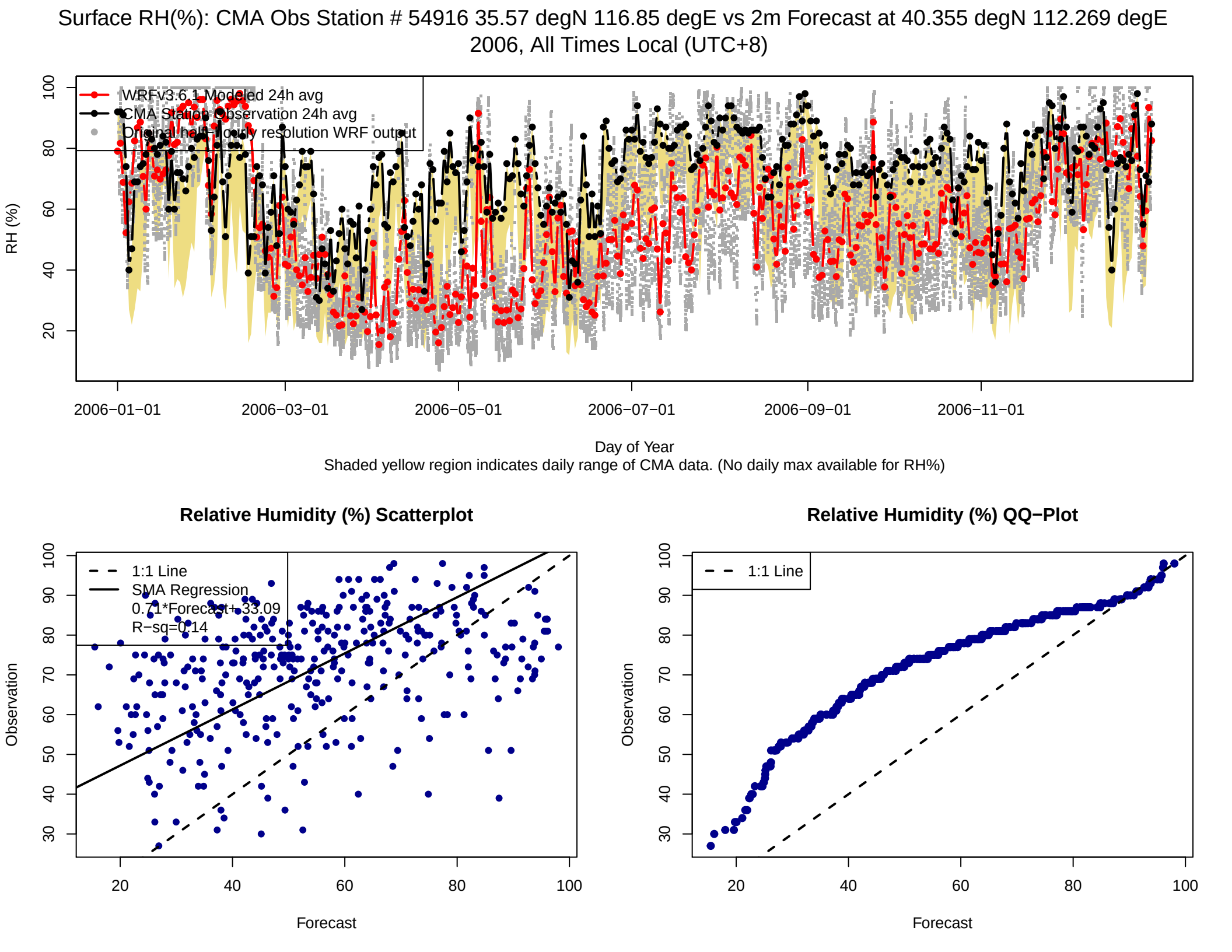
Surface Press (hPa) Scatterplot



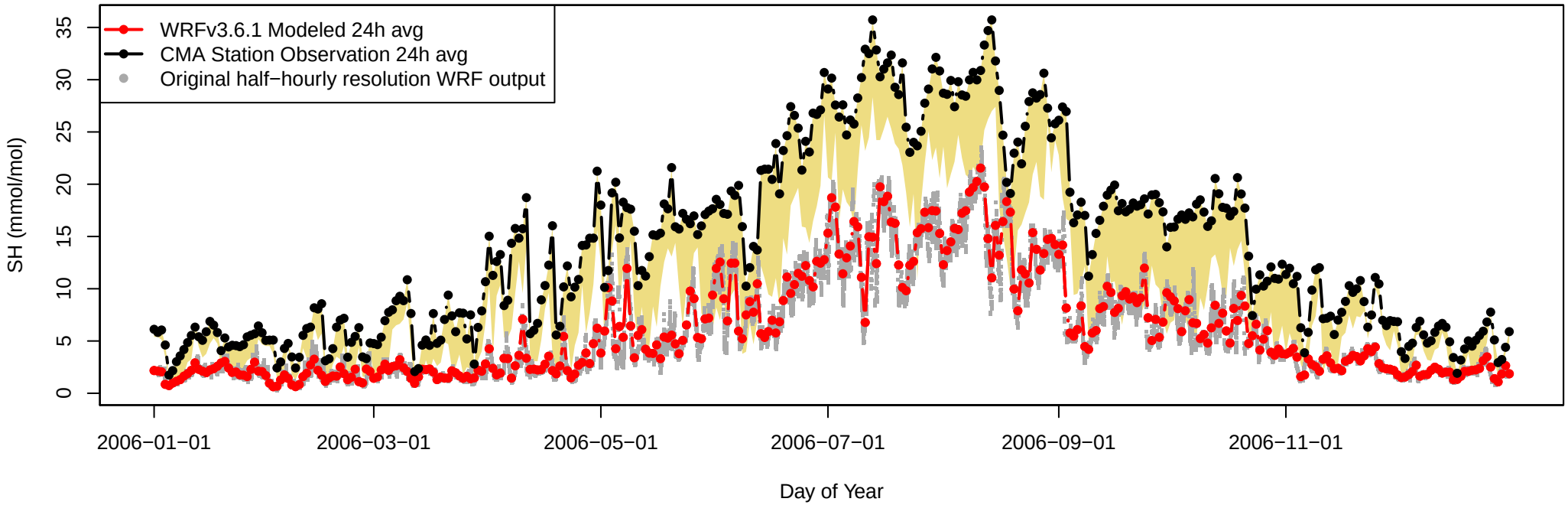
Surface Press (hPa) QQ−Plot



CMA Obs Station # 54916 35.57 degN 116.85 degE
vs Forecast at 40.355 degN 112.269 degE
2006, All Times Local (UTC+8)

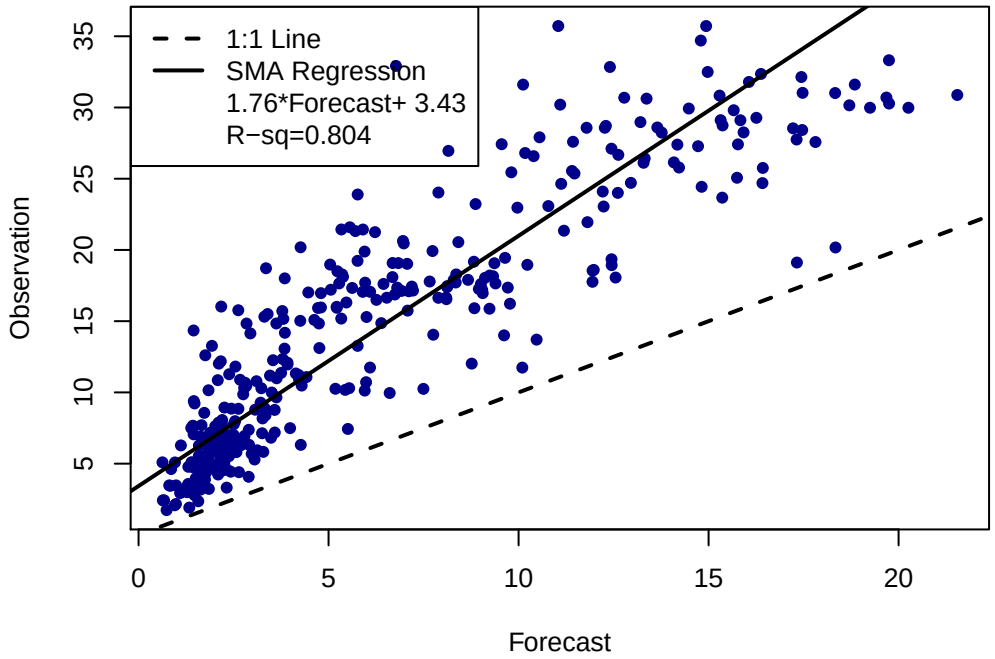

Surface RH(%): CMA Obs Station # 54916 35.57 degN 116.85 degE vs 2m Forecast at 40.355 degN 112.269 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half-hourly resolution WRF output
RH (%)
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data. (No daily max available for RH%)
Relative Humidity (%) Scatterplot
1:1 Line
SMA Regression
0.71*Forecast+33.09
R−sq=0.14
Observation
Forecast
Relative Humidity (%) QQ−Plot
1:1 Line
Observation
Forecast

SH(mmol/mol) at 2m: CMA Obs Station # 54916 35.57 degN 116.85 degE vs Forecast at 40.355 degN 112.269 degE
2006 All Times Local (UTC+8)

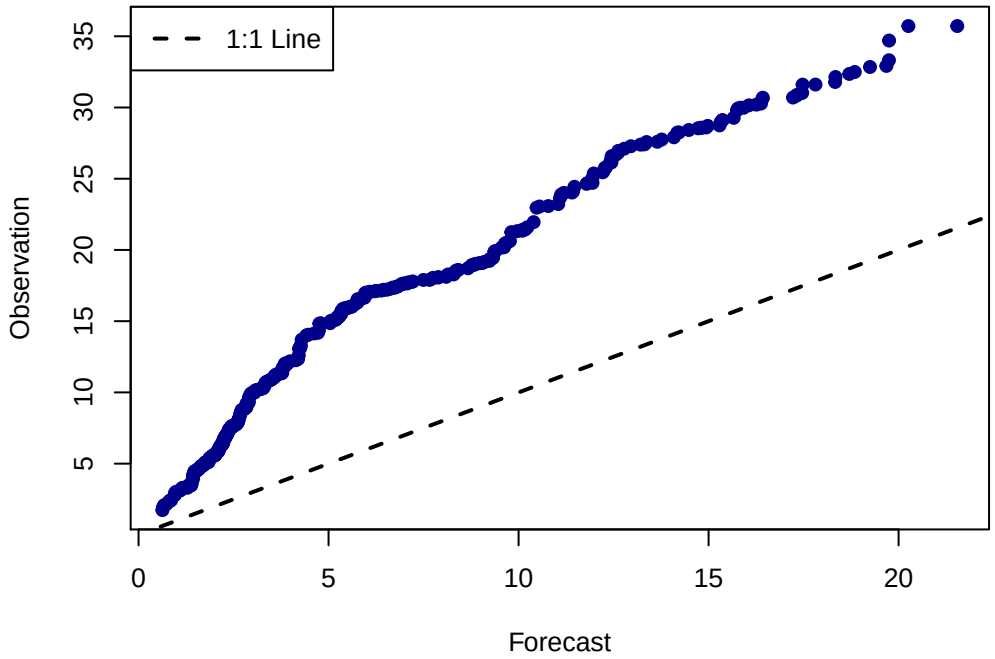


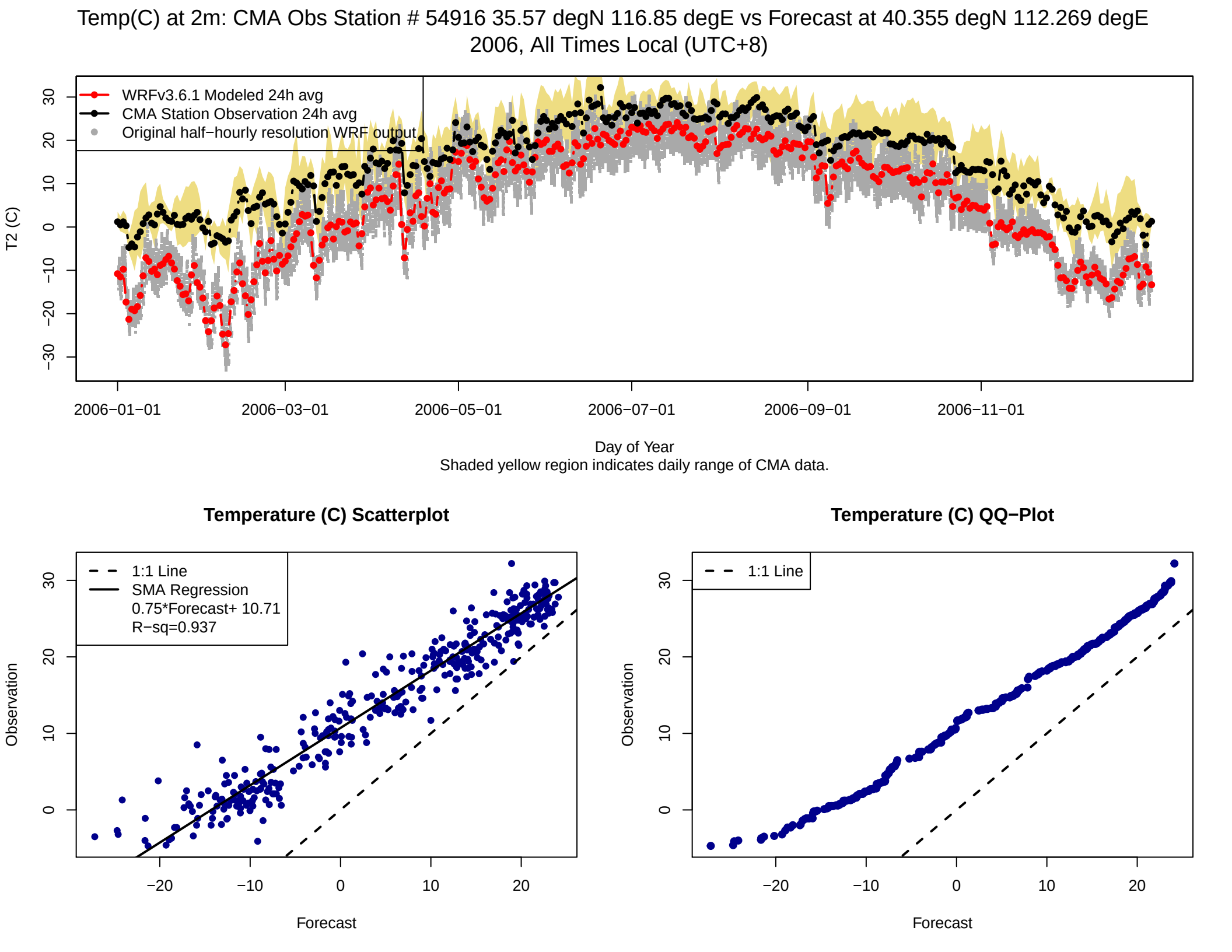
Shaded yellow region indicates daily range of CMA data. (No daily max available for SH)

Specific Humidity (mmol/mol) Scatterplot

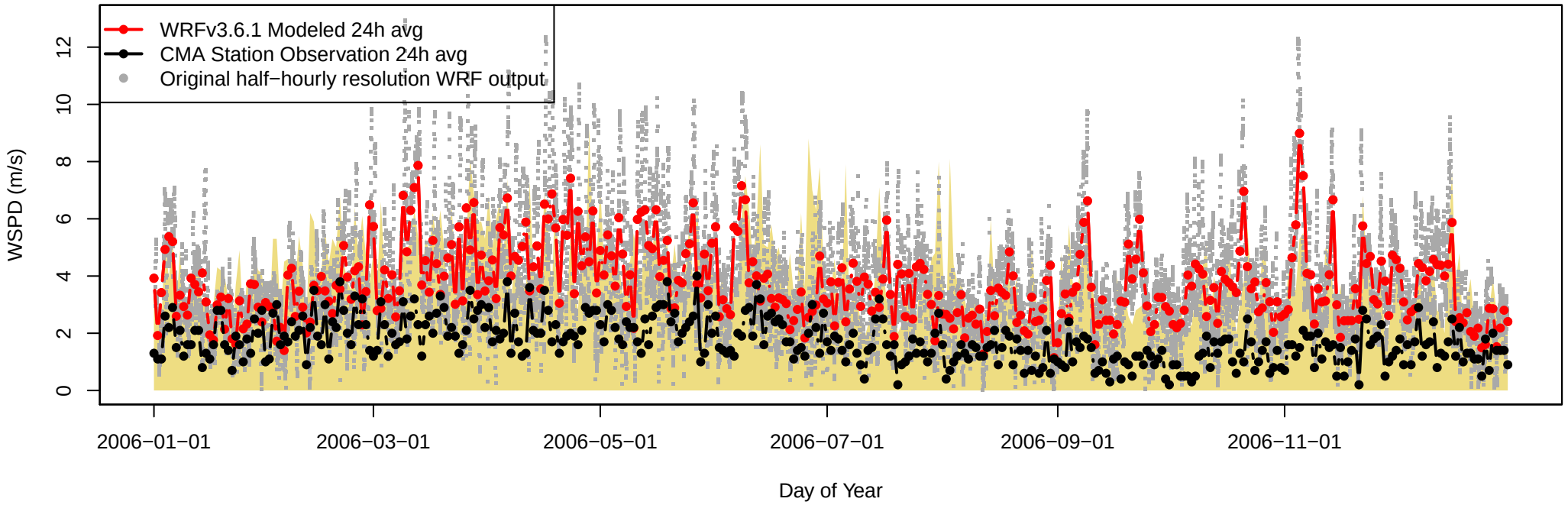


Specific Humidity (mmol/mol) QQ−Plot



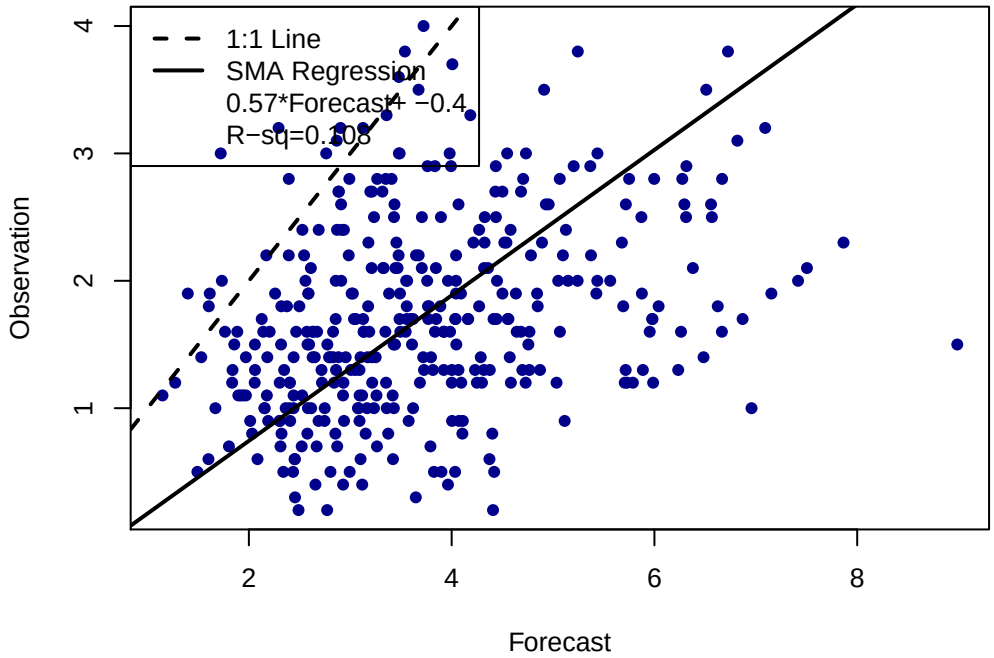

Temp(C) at 2m: CMA Obs Station # 54916 35.57 degN 116.85 degE vs Forecast at 40.355 degN 112.269 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
T2 (C)
30
20
10
0
−10
−20
−30
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data.
Temperature (C) Scatterplot
1:1 Line
SMA Regression
0.75*Forecast+ 10.71
R−sq=0.937
Observation
Forecast
−20
−10
0
10
20
Temperature (C) QQ−Plot
1:1 Line
Observation
Forecast

Wind Speed (m/s) at 10m: CMA Obs Station # 54916 35.57 degN 116.85 degE vs Forecast at 40.355 degN 112.269 degE
2006, All Times Local (UTC+8)

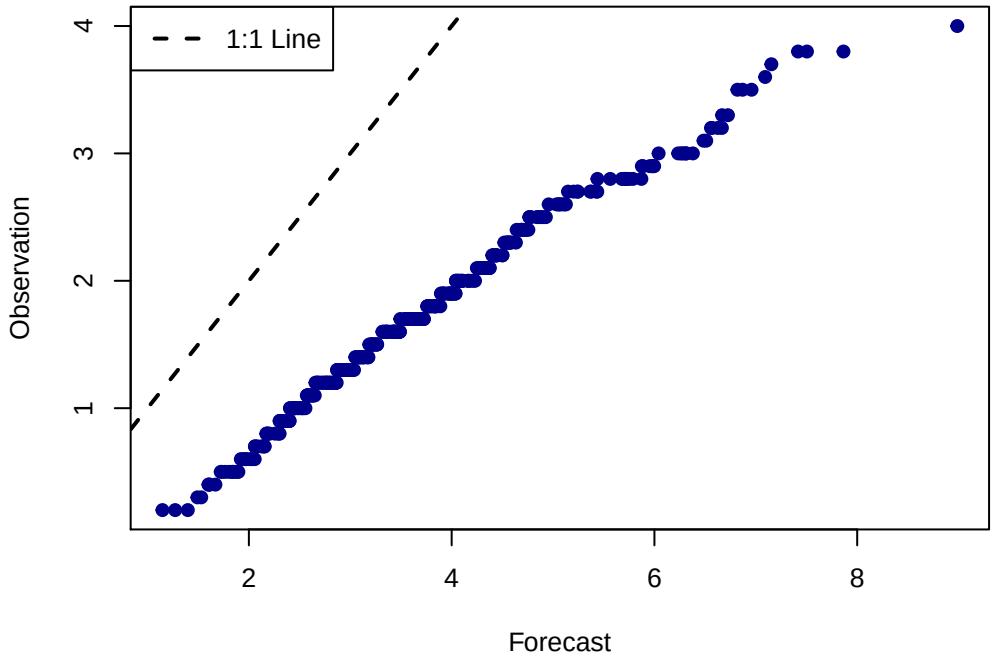


Shaded yellow region indicates daily range of CMA data. Min daily WSPD unavailable but assumed (and set at) 0.

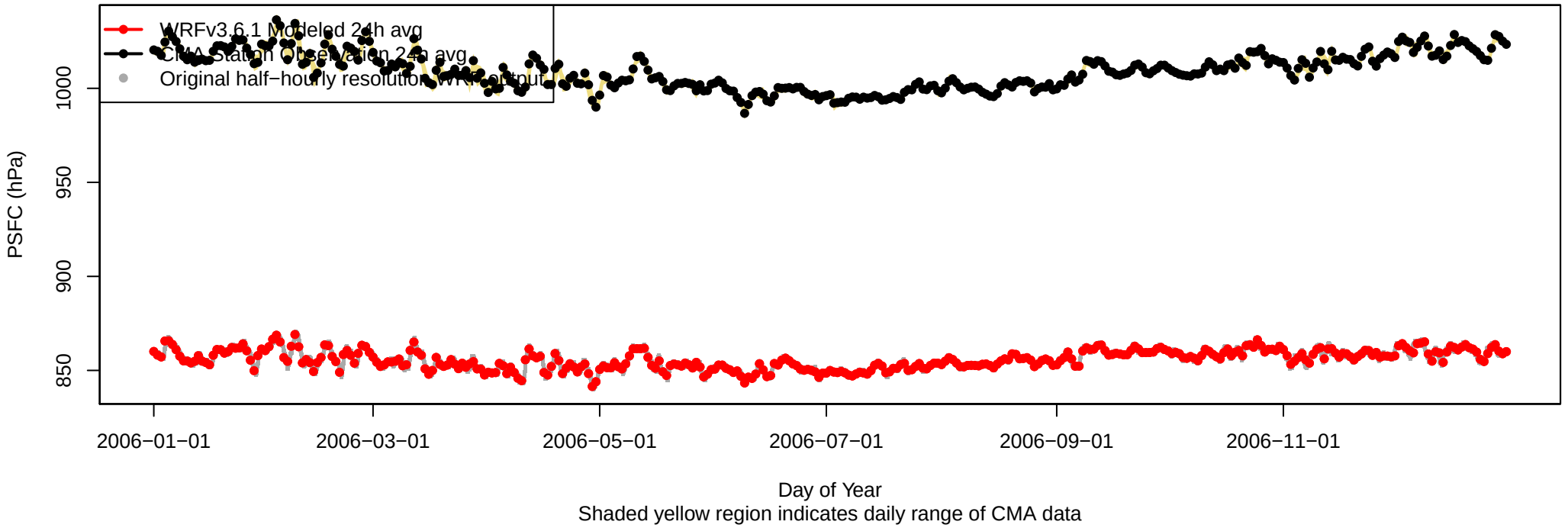
Wind Speed (m/s) Scatterplot

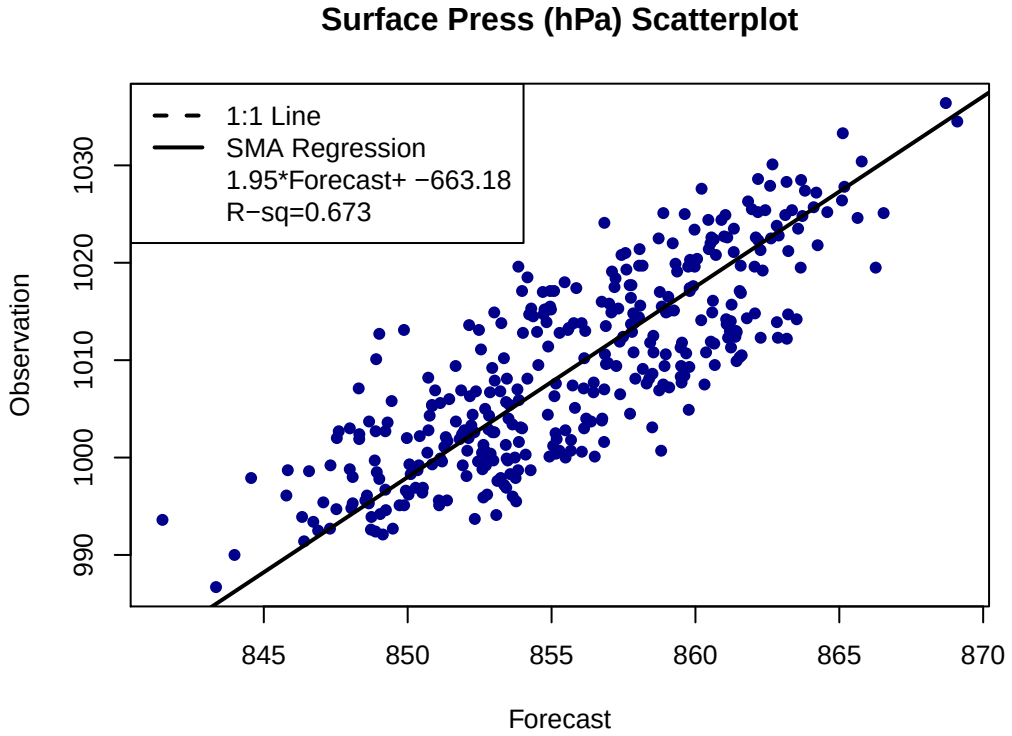


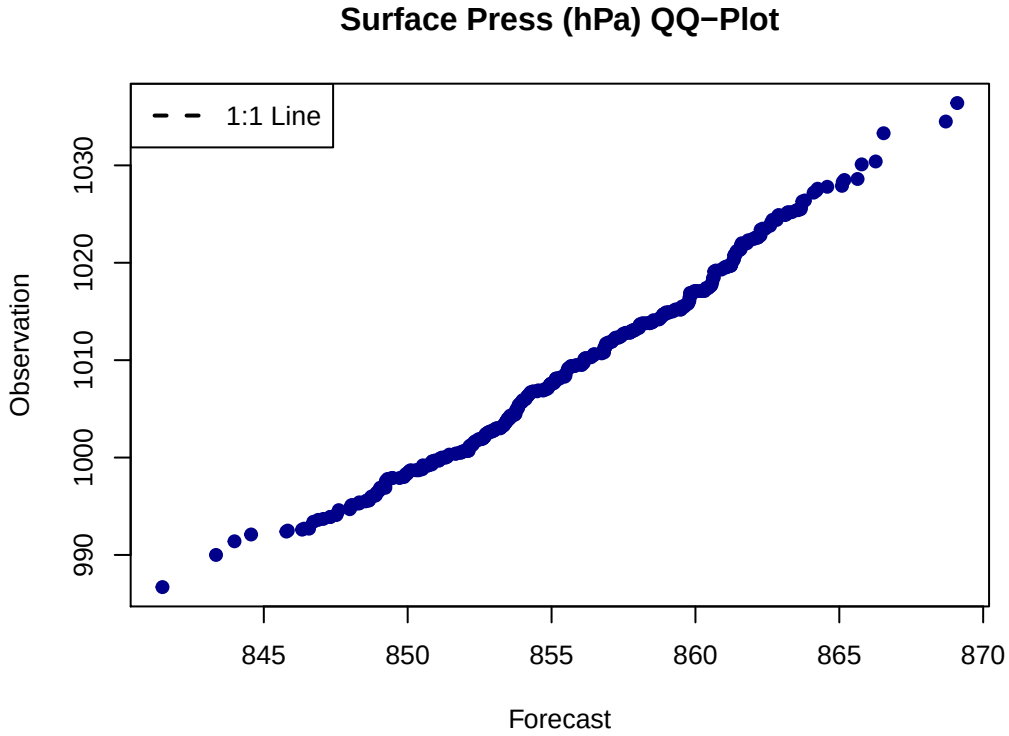
Wind Speed (m/s) QQ−Plot



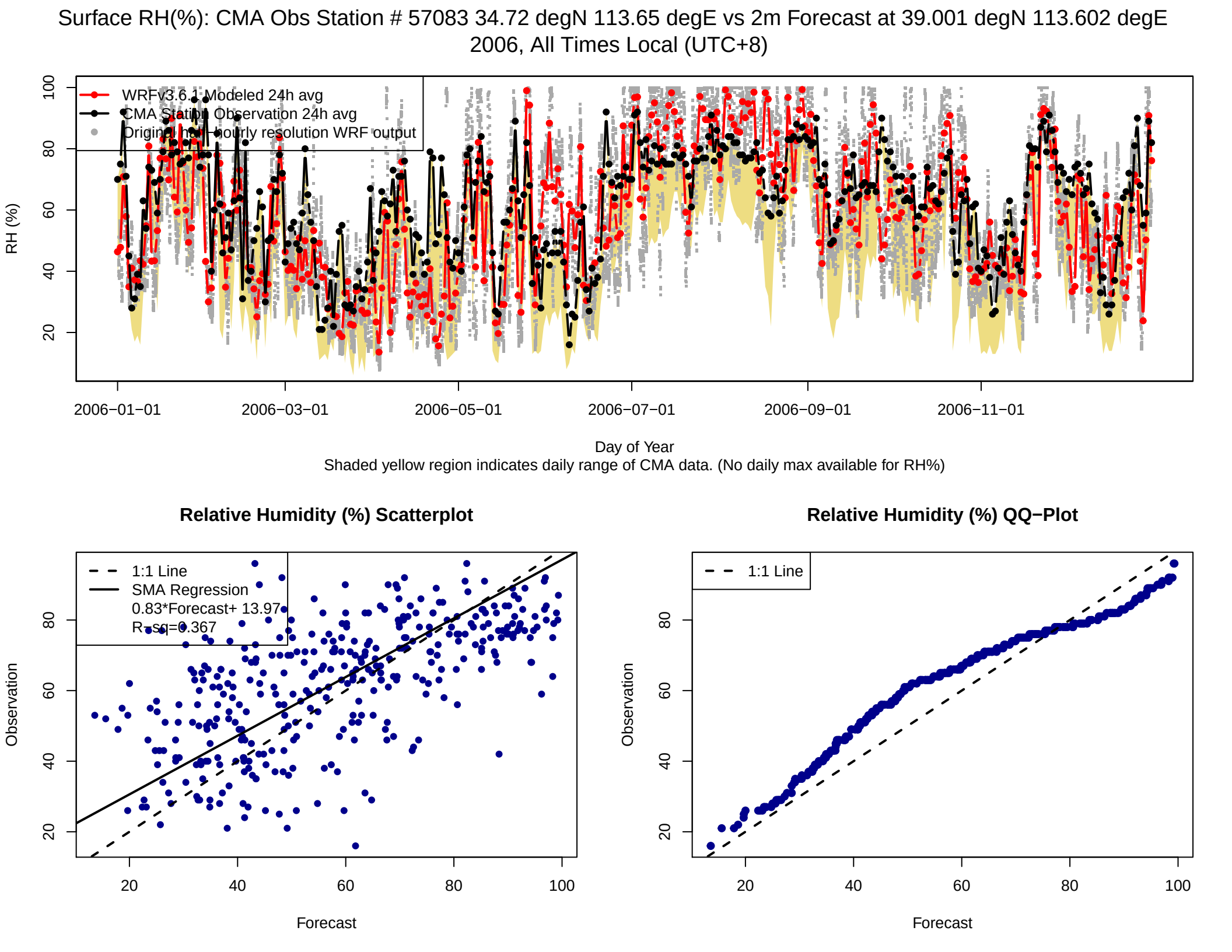
Surface Press (hPa): CMA Obs Station # 54916 35.57 degN 116.85 degE vs Forecast at 40.355 degN 112.269 degE
2006, All Times Local (UTC+8)



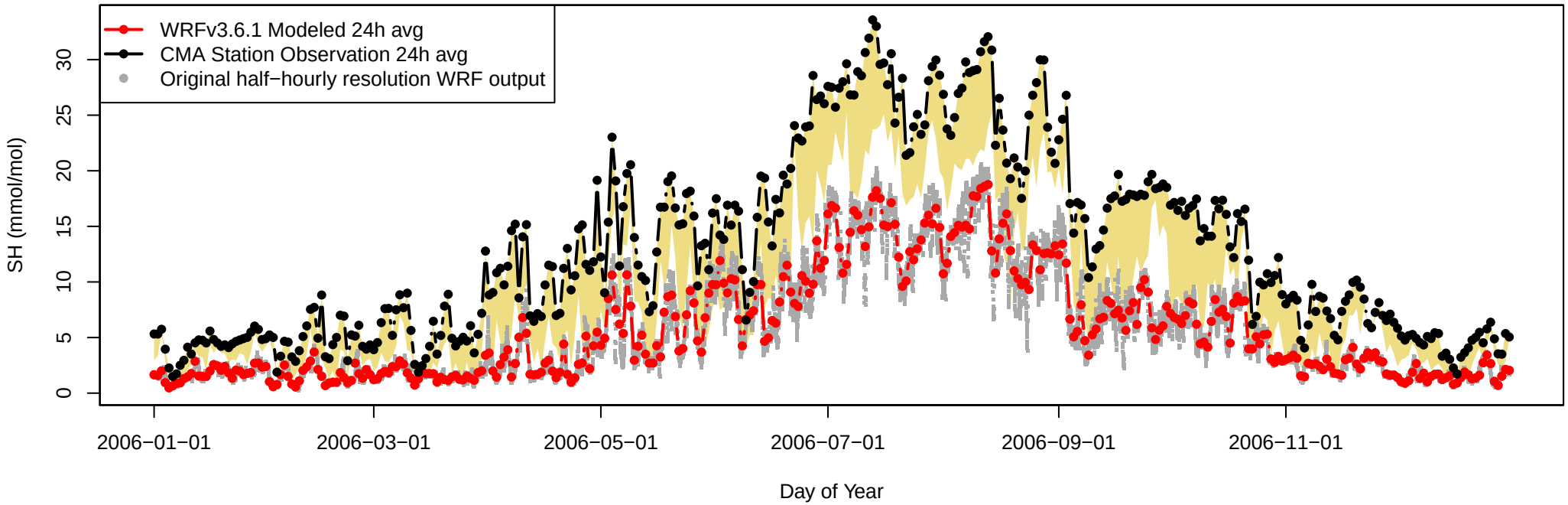




CMA Obs Station # 57083 34.72 degN 113.65 degE
vs Forecast at 39.001 degN 113.602 degE
2006, All Times Local (UTC+8)

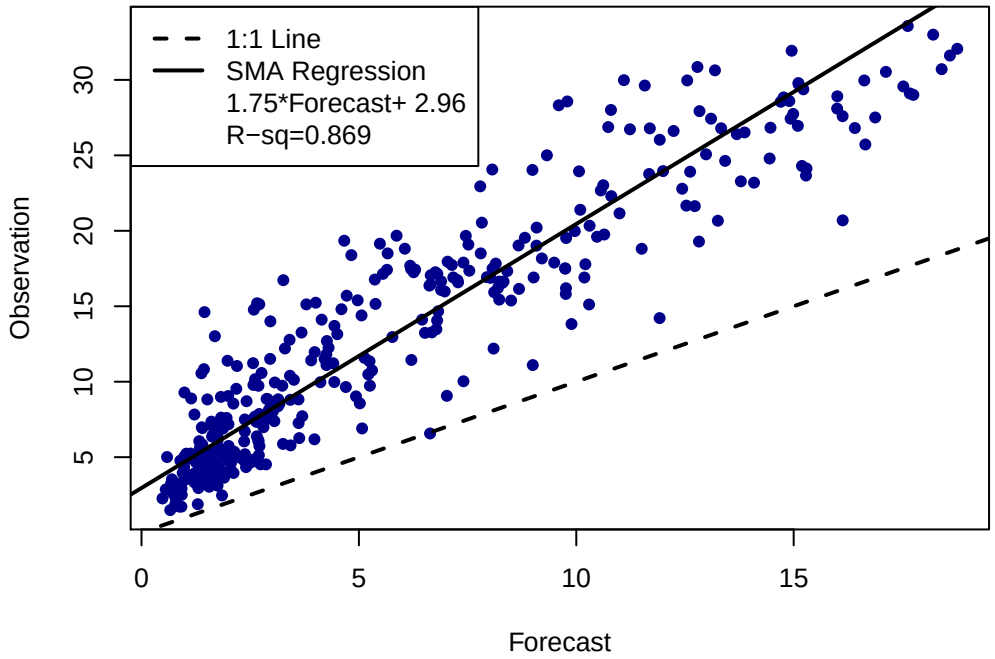

Surface RH(%): CMA Obs Station # 57083 34.72 degN 113.65 degE vs 2m Forecast at 39.001 degN 113.602 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half-hourly resolution WRF output
RH (%)
2006-01-01
2006-03-01
2006-05-01
2006-07-01
2006-09-01
2006-11-01
Day of Year
Shaded yellow region indicates daily range of CMA data. (No daily max available for RH%)
Relative Humidity (%) Scatterplot
1:1 Line
SMA Regression
0.83*Forecast+ 13.97
R-sq=0.367
Observation
Forecast
Relative Humidity (%) QQ-Plot
1:1 Line
Observation
Forecast

SH(mmol/mol) at 2m: CMA Obs Station # 57083 34.72 degN 113.65 degE vs Forecast at 39.001 degN 113.602 degE
2006 All Times Local (UTC+8)

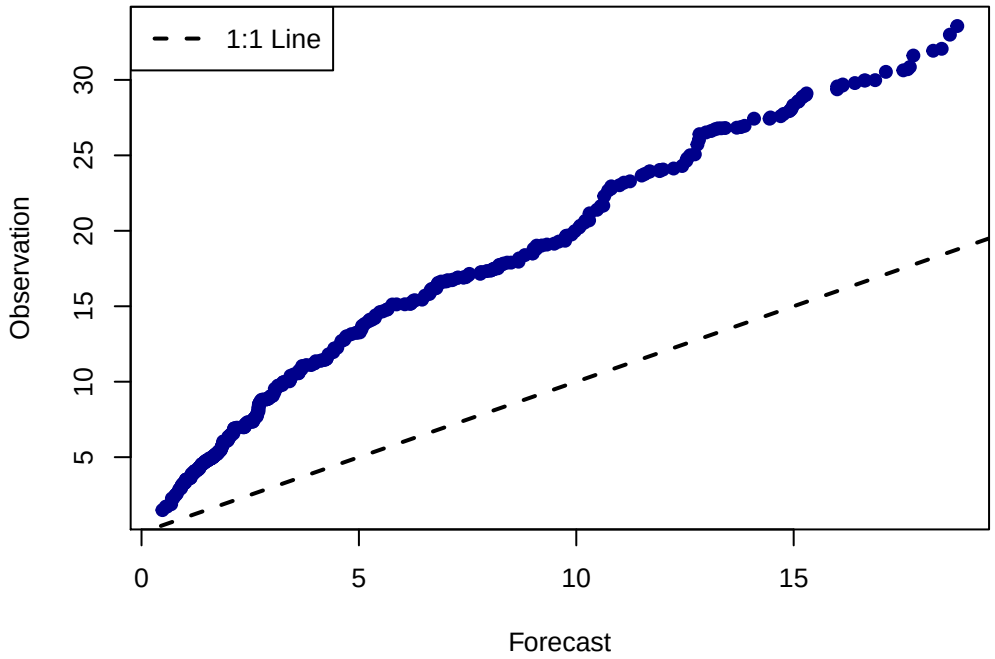


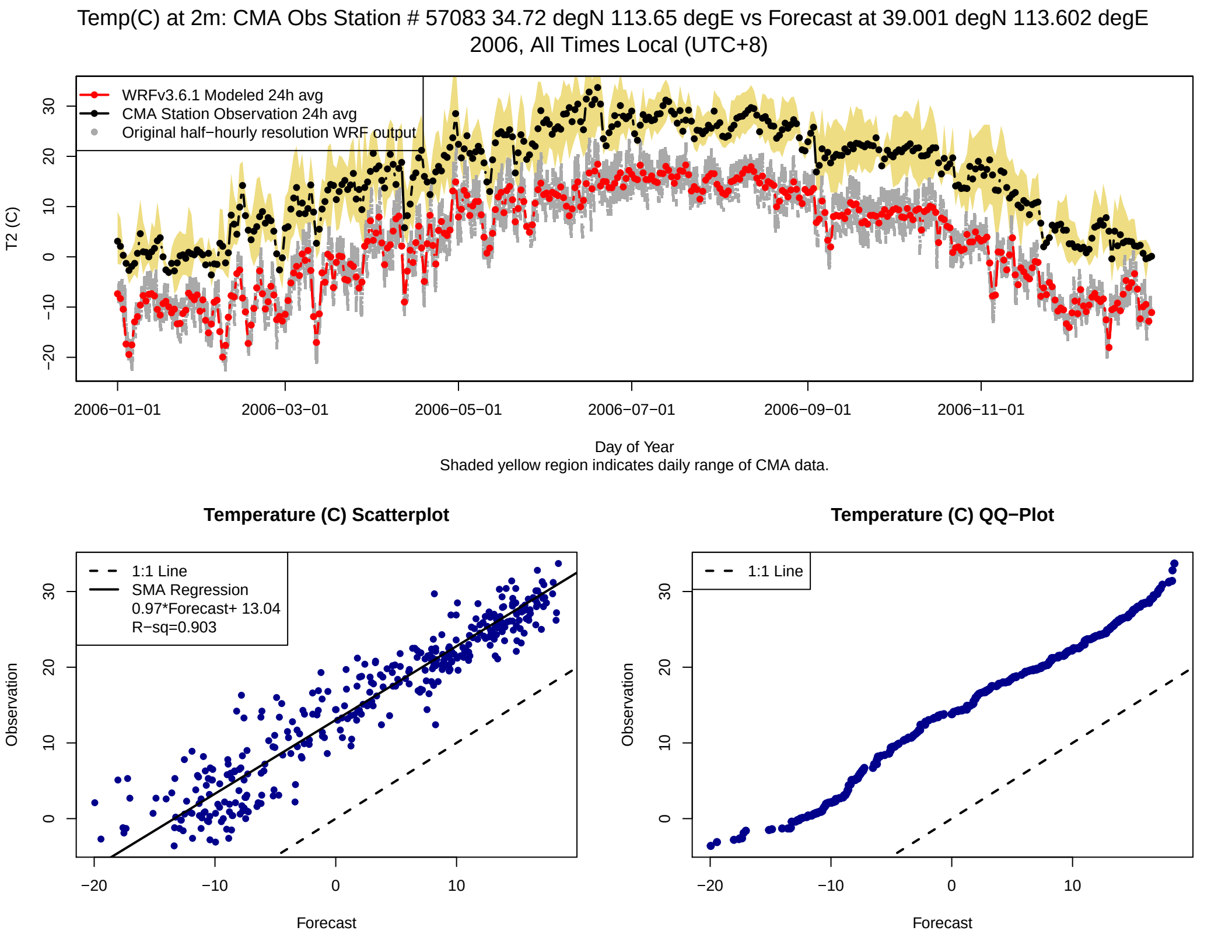
Shaded yellow region indicates daily range of CMA data. (No daily max available for SH)

Specific Humidity (mmol/mol) Scatterplot

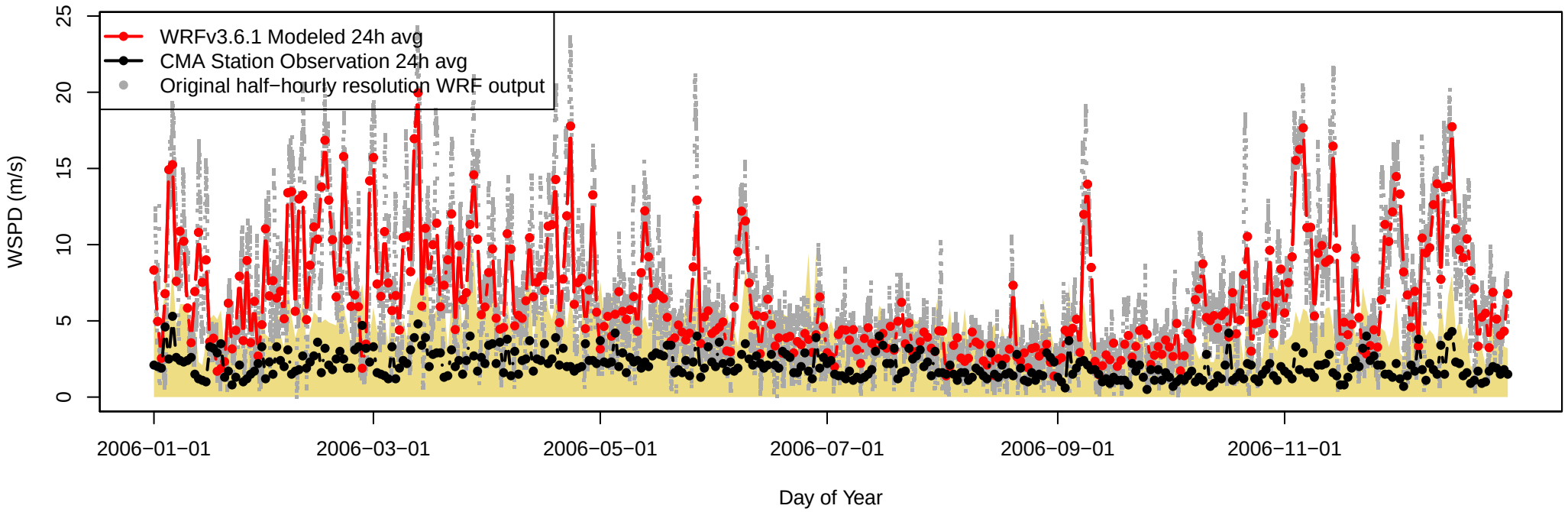


Specific Humidity (mmol/mol) QQ−Plot



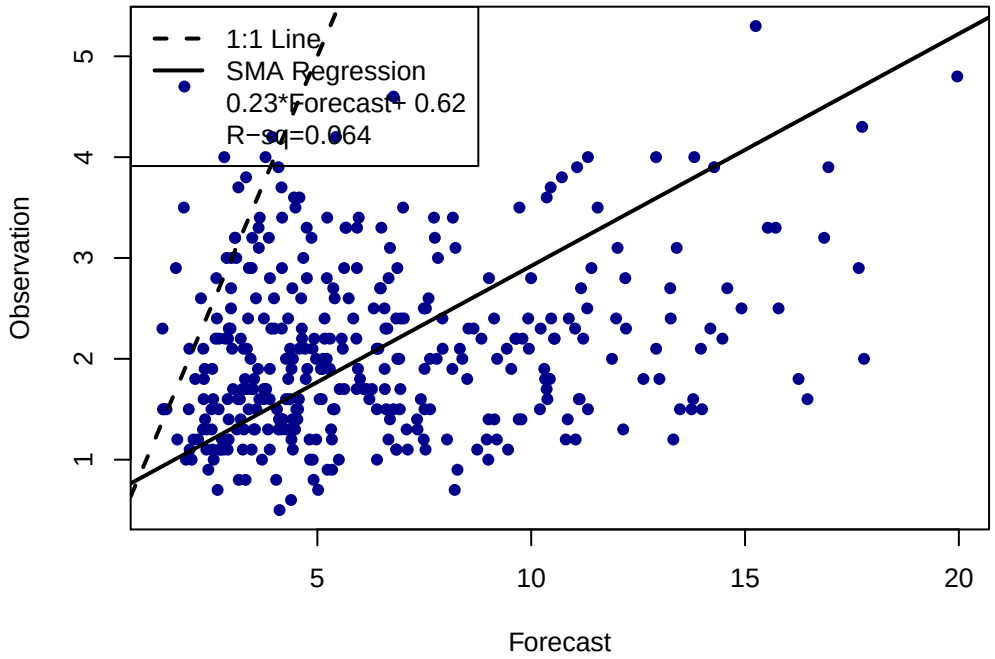

Temp(C) at 2m: CMA Obs Station # 57083 34.72 degN 113.65 degE vs Forecast at 39.001 degN 113.602 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
T2 (C)
30
20
10
0
−10
−20
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data.
Temperature (C) Scatterplot
1:1 Line
SMA Regression
0.97*Forecast+ 13.04
R−sq=0.903
Observation
Forecast
−20
−10
0
10
30
20
Temperature (C) QQ−Plot
1:1 Line
Observation
Forecast

Wind Speed (m/s) at 10m: CMA Obs Station # 57083 34.72 degN 113.65 degE vs Forecast at 39.001 degN 113.602 degE
2006, All Times Local (UTC+8)

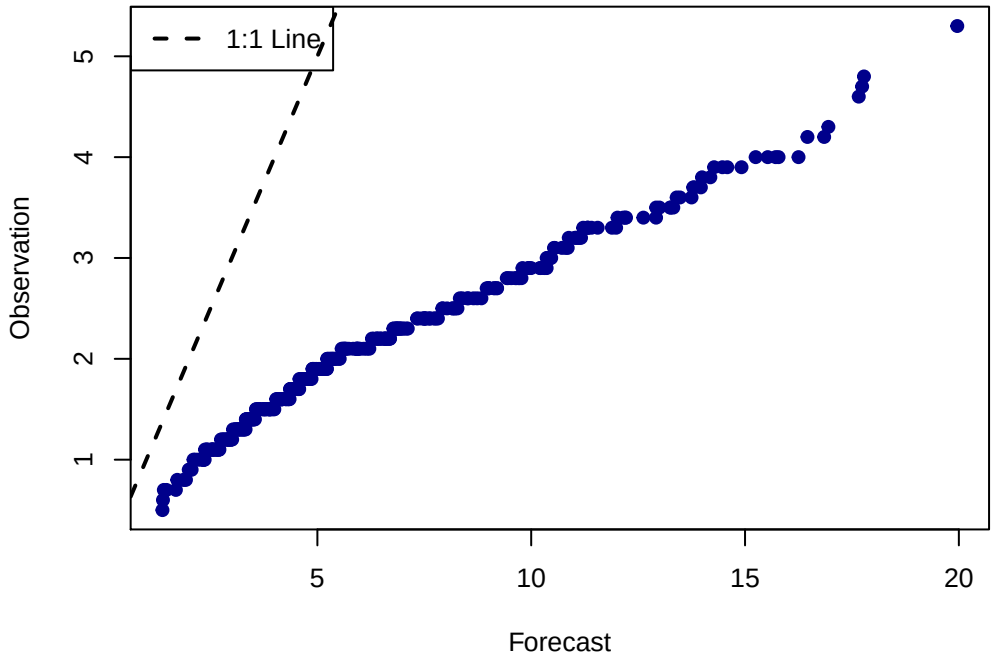


Shaded yellow region indicates daily range of CMA data. Min daily WSPD unavailable but assumed (and set at) 0.

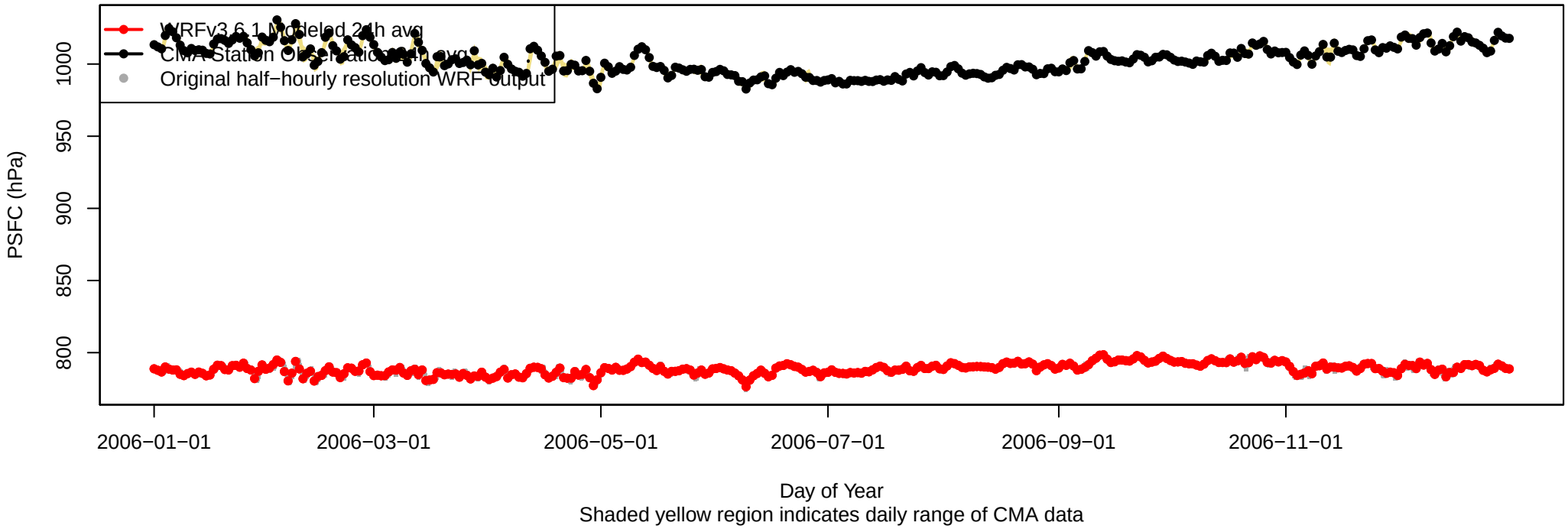
Wind Speed (m/s) Scatterplot



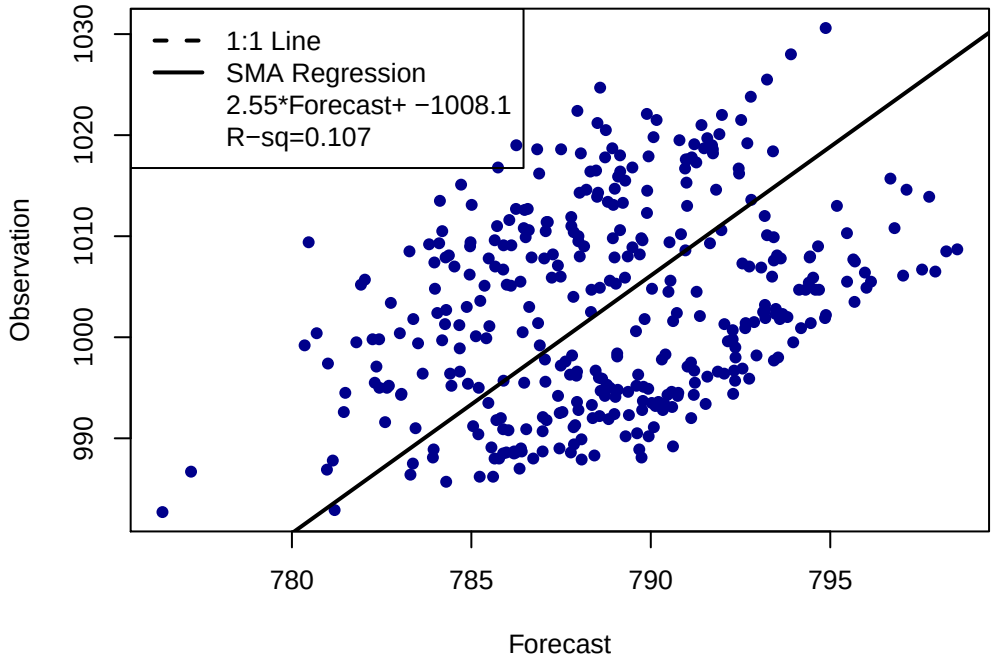
Wind Speed (m/s) QQ−Plot



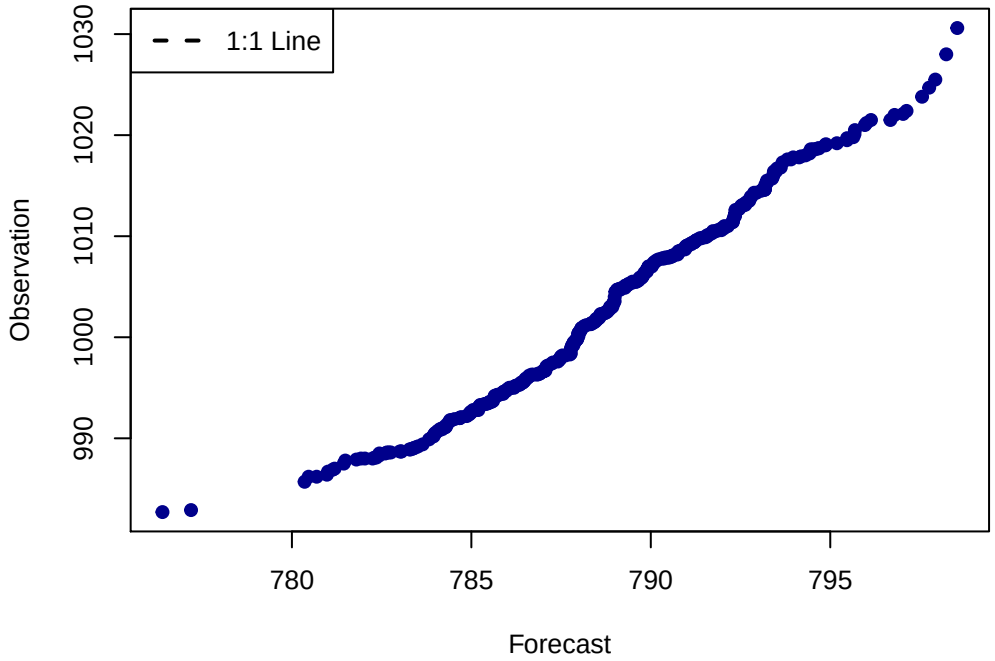
Surface Press (hPa): CMA Obs Station # 57083 34.72 degN 113.65 degE vs Forecast at 39.001 degN 113.602 degE
2006, All Times Local (UTC+8)



Surface Press (hPa) Scatterplot

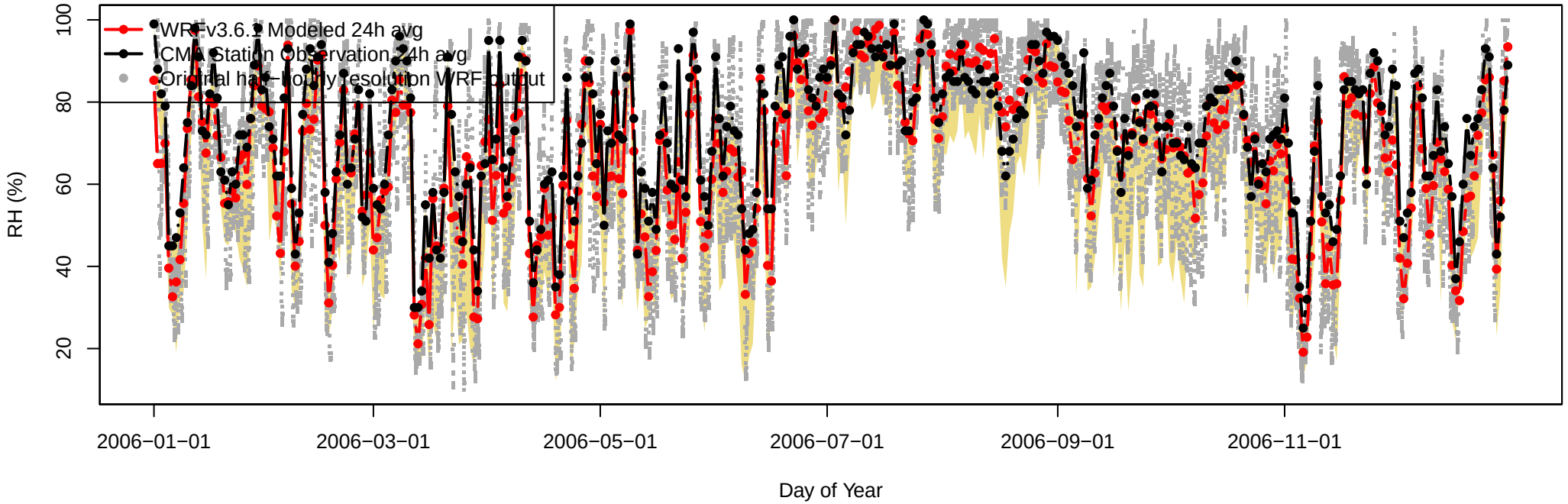


Surface Press (hPa) QQ−Plot



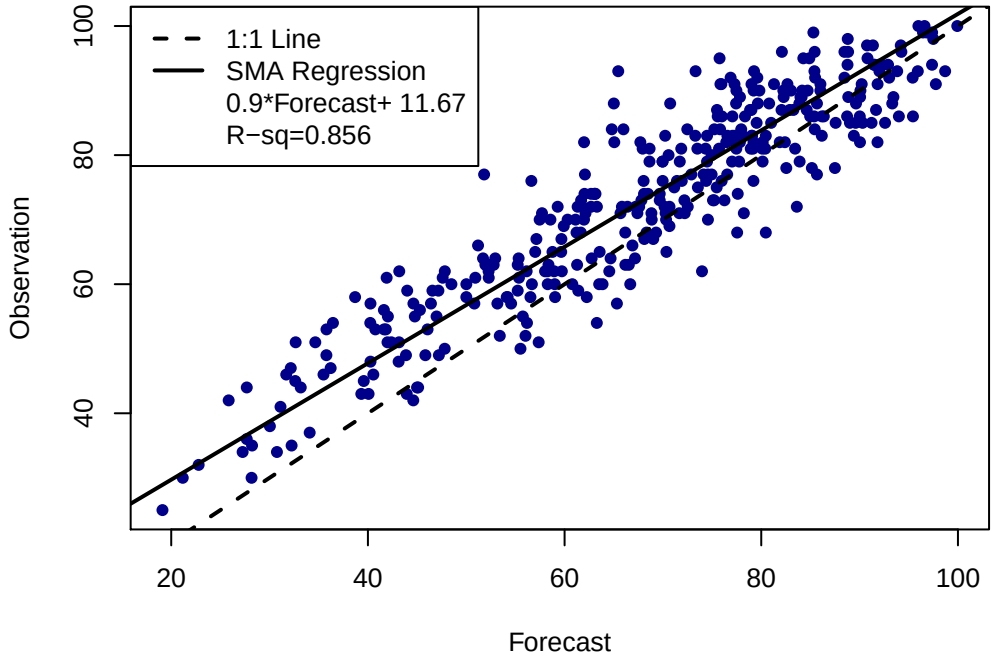
CMA Obs Station # 58040 34.83 degN 119.12 degE
vs Forecast at 34.907 degN 119.174 degE
2006, All Times Local (UTC+8)

Surface RH(%): CMA Obs Station # 58040 34.83 degN 119.12 degE vs 2m Forecast at 34.907 degN 119.174 degE
2006, All Times Local (UTC+8)

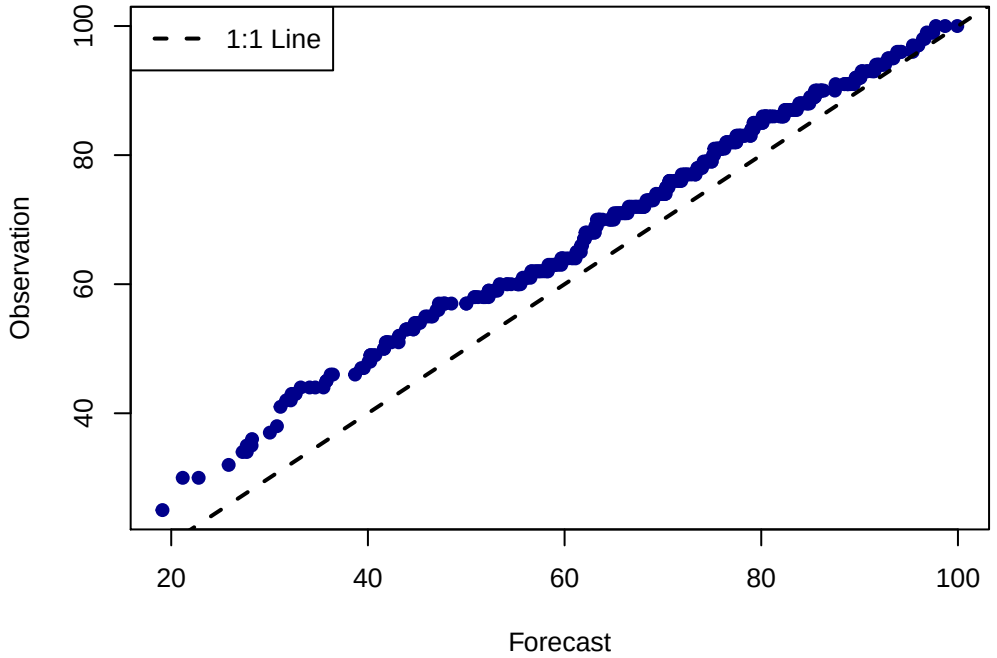


Shaded yellow region indicates daily range of CMA data. (No daily max available for RH%)

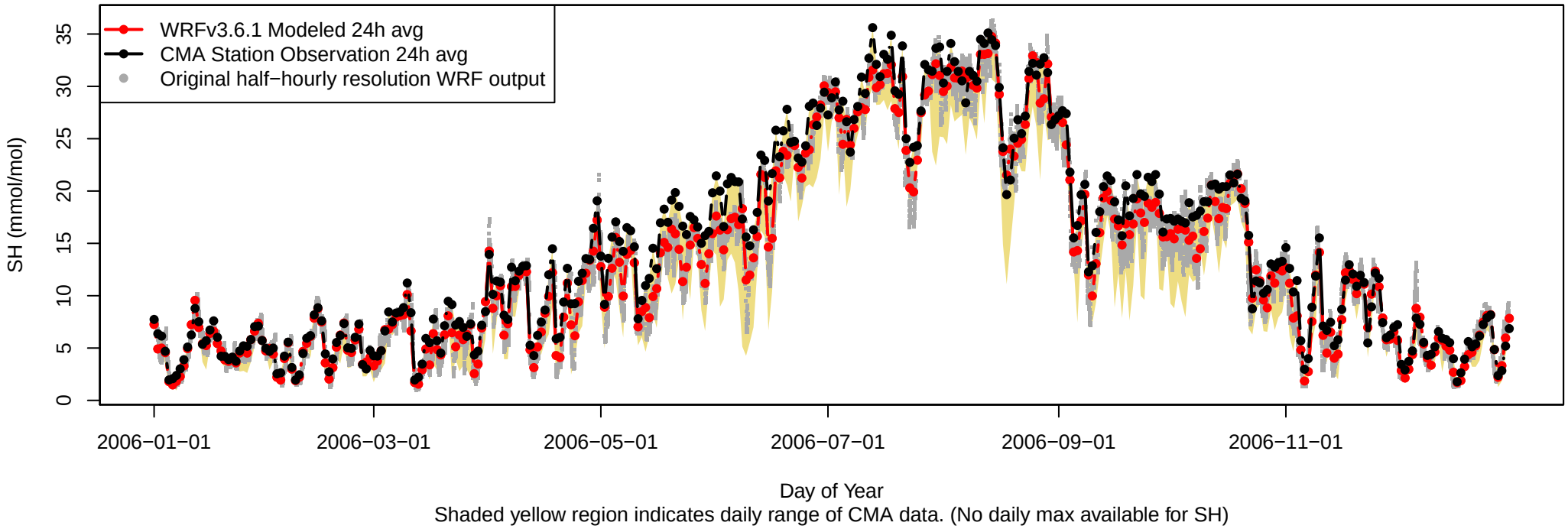
Relative Humidity (%) Scatterplot



Relative Humidity (%) QQ−Plot

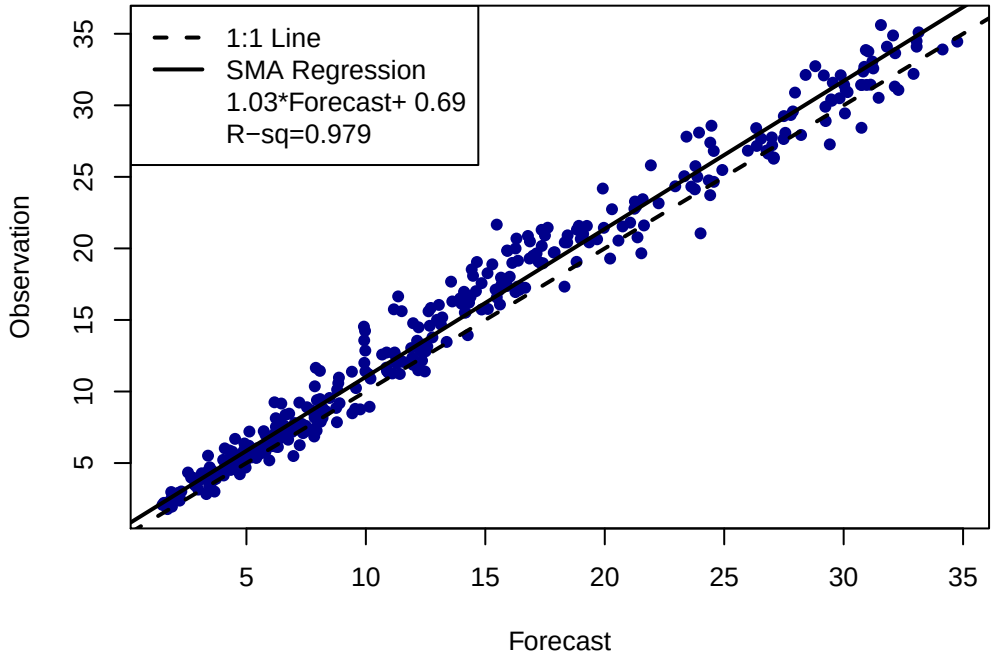


SH(mmol/mol) at 2m: CMA Obs Station # 58040 34.83 degN 119.12 degE vs Forecast at 34.907 degN 119.174 degE
2006 All Times Local (UTC+8)

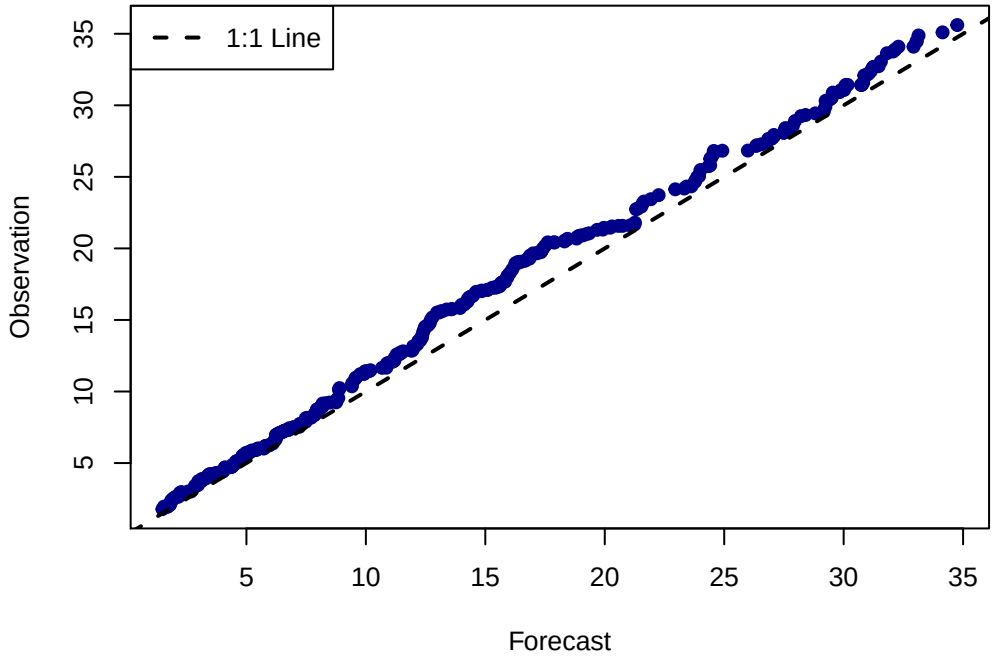


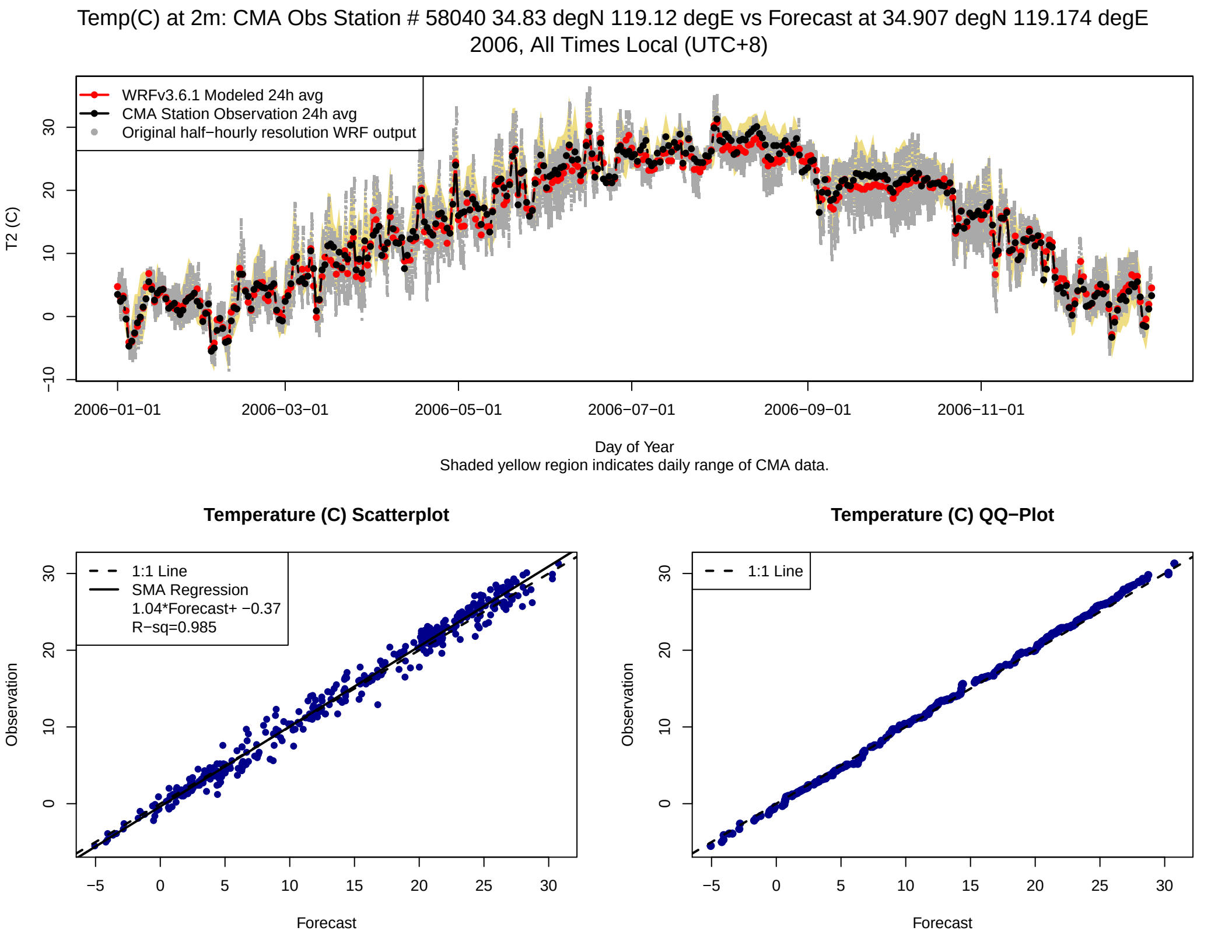
Shaded yellow region indicates daily range of CMA data. (No daily max available for SH)

Specific Humidity (mmol/mol) Scatterplot

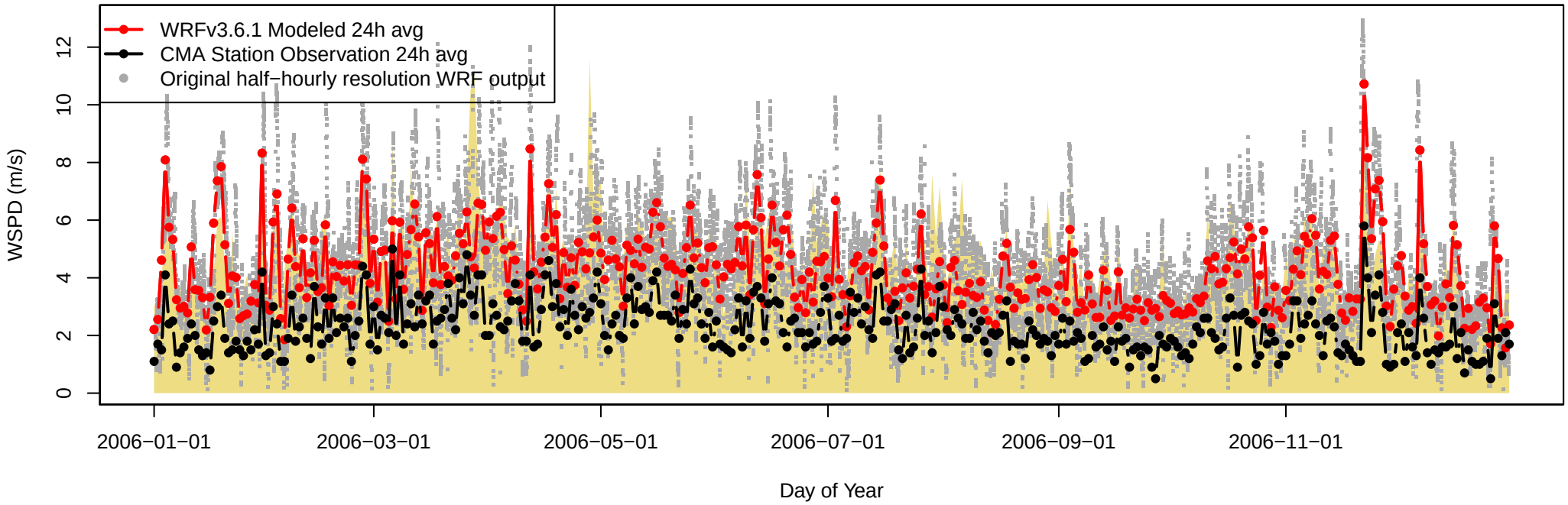


Specific Humidity (mmol/mol) QQ−Plot



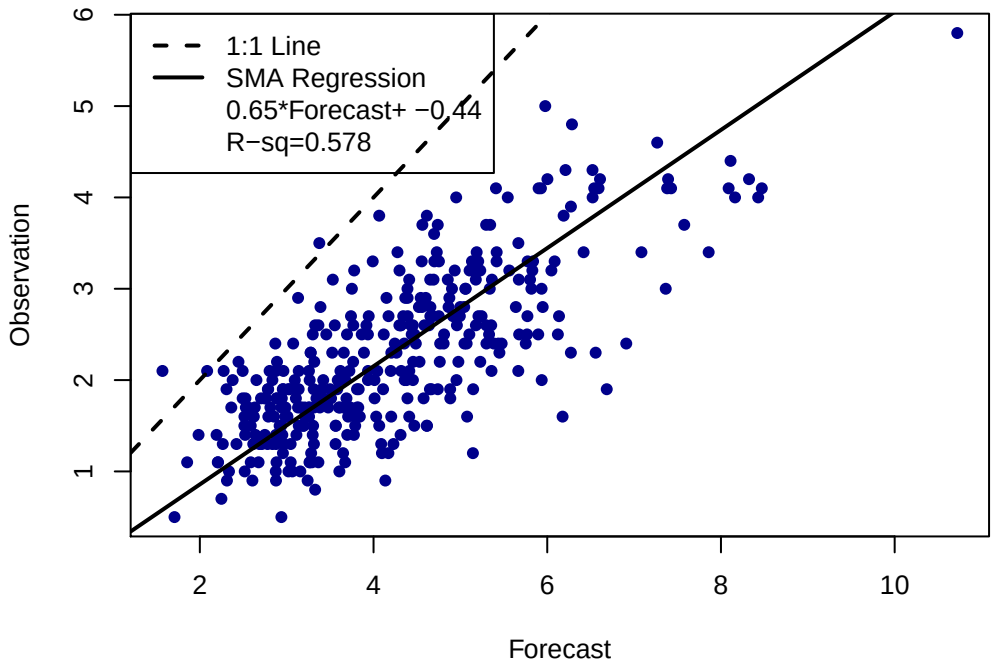

Temp(C) at 2m: CMA Obs Station # 58040 34.83 degN 119.12 degE vs Forecast at 34.907 degN 119.174 degE
2006, All Times Local (UTC+8)
WRFv3.6.1 Modeled 24h avg
CMA Station Observation 24h avg
Original half−hourly resolution WRF output
T2 (C)
−10
0
10
20
30
2006−01−01
2006−03−01
2006−05−01
2006−07−01
2006−09−01
2006−11−01
Day of Year
Shaded yellow region indicates daily range of CMA data.
Temperature (C) Scatterplot
1:1 Line
SMA Regression
1.04*Forecast+ −0.37
R−sq=0.985
Observation
Forecast
−5
0
5
10
15
20
25
30
Temperature (C) QQ−Plot
1:1 Line
Observation
Forecast

Wind Speed (m/s) at 10m: CMA Obs Station # 58040 34.83 degN 119.12 degE vs Forecast at 34.907 degN 119.174 degE
2006, All Times Local (UTC+8)

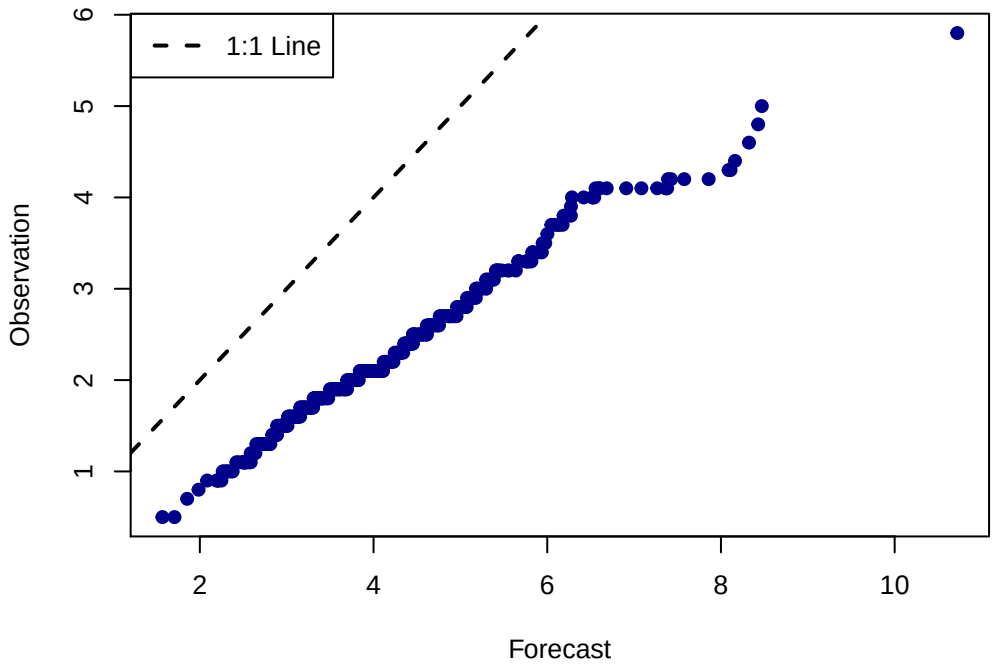
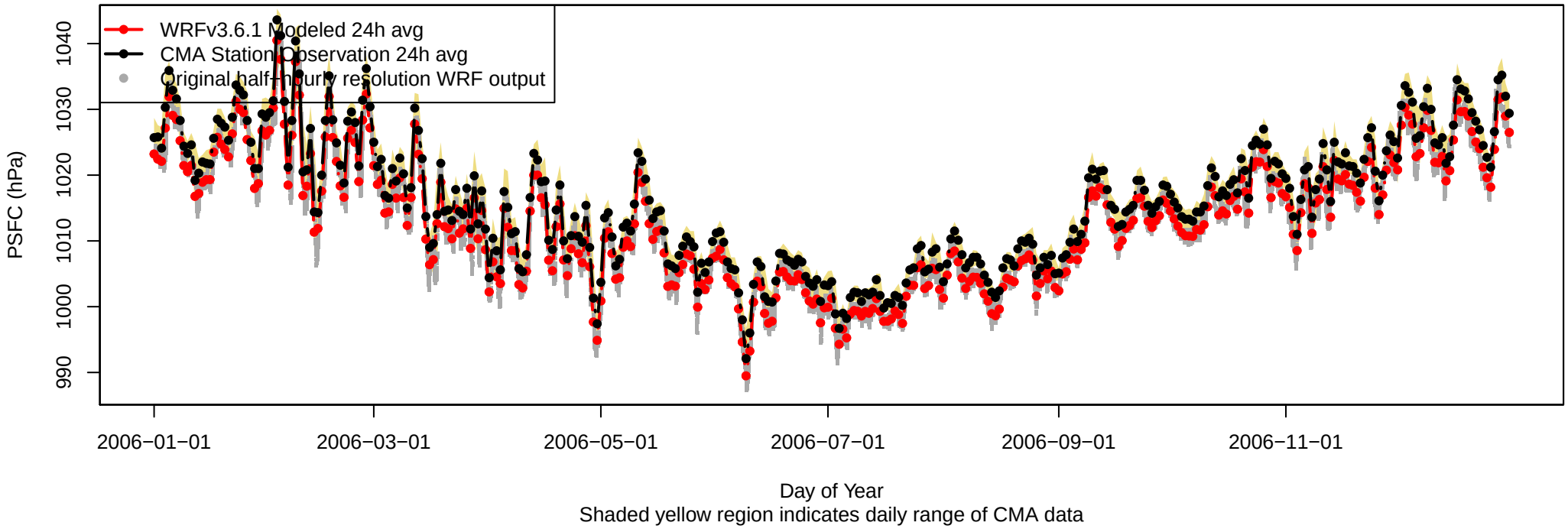
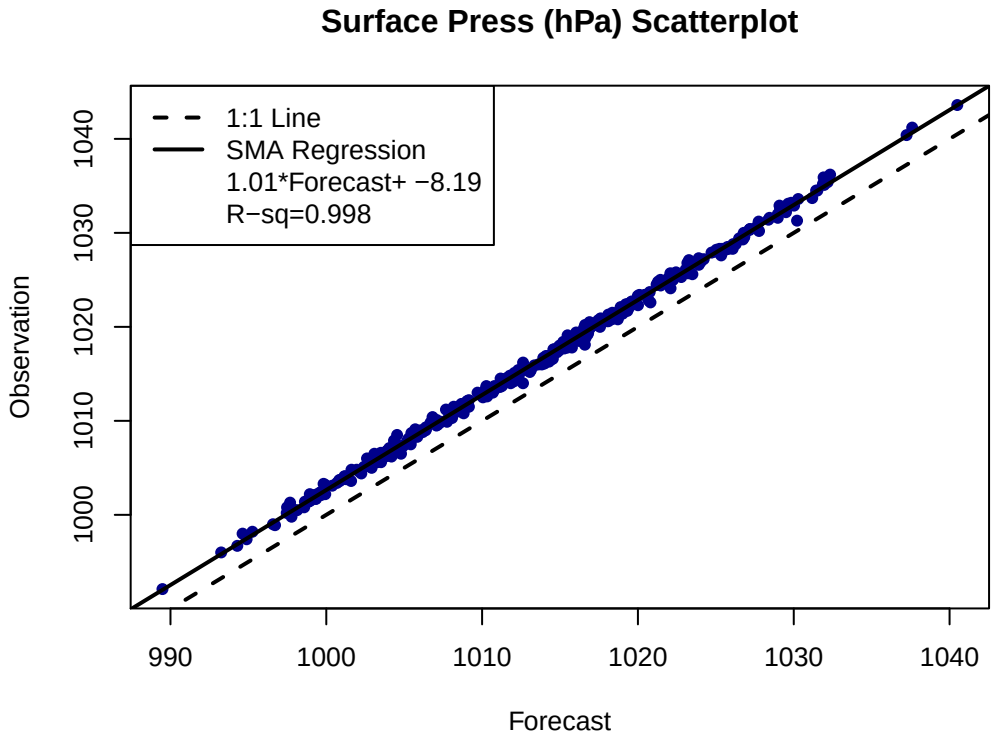
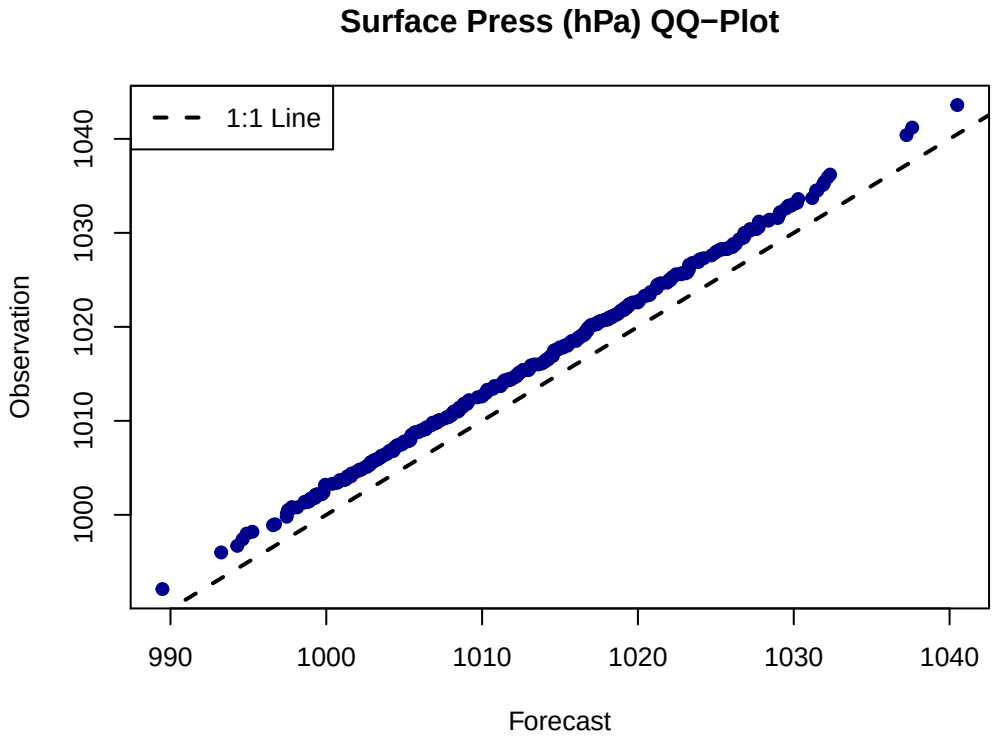


Shaded yellow region indicates daily range of CMA data. Min daily WSPD unavailable but assumed (and set at) 0.

Wind Speed (m/s) Scatterplot



Wind Speed (m/s) QQ−Plot



Surface Press (hPa): CMA Obs Station # 58040 34.83 degN 119.12 degE vs Forecast at 34.907 degN 119.174 degE
2006, All Times Local (UTC+8)