

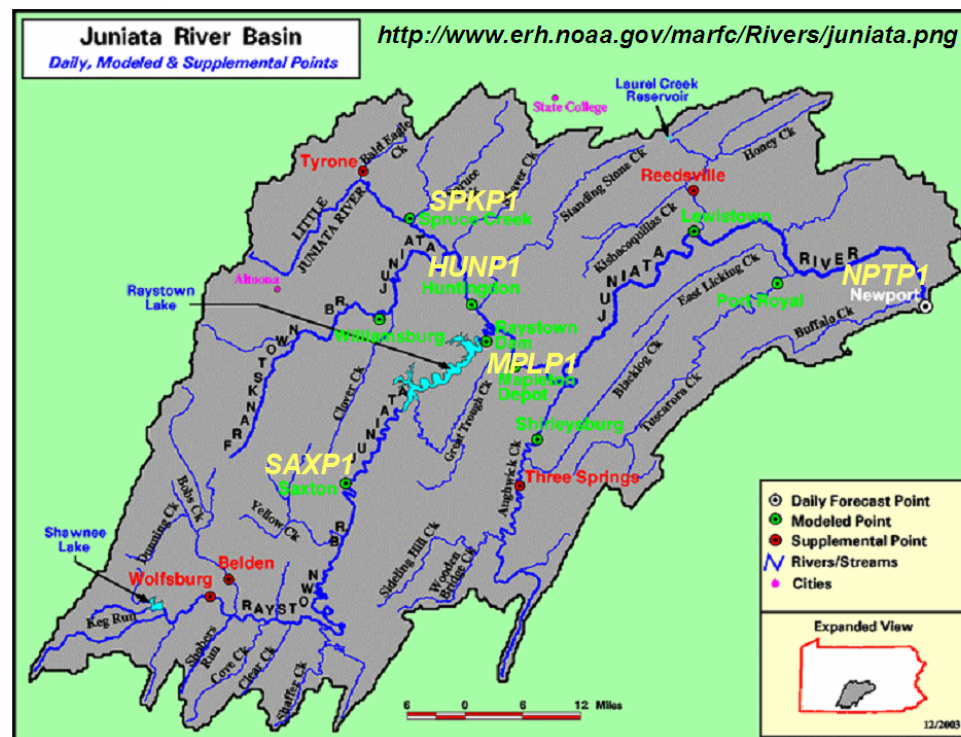
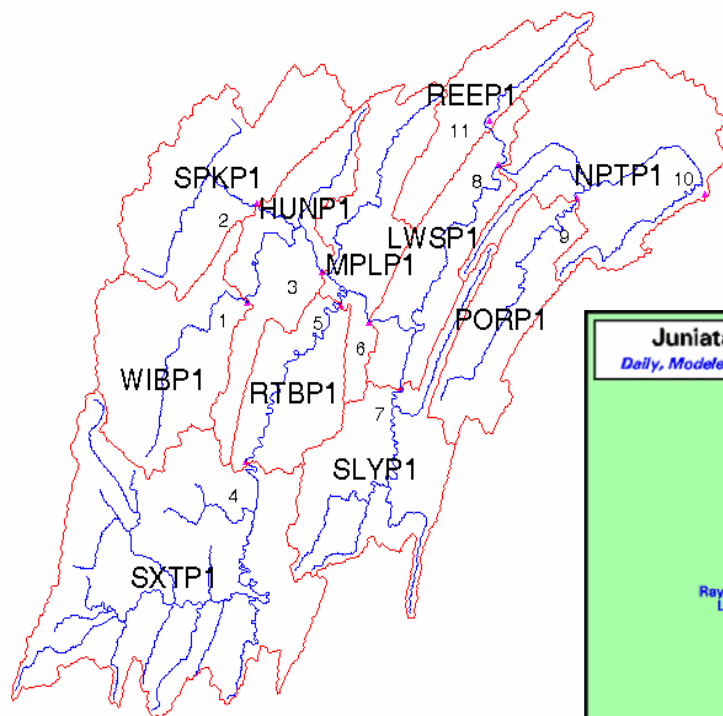


Precipitation Ensemble Verification Example - MARFC

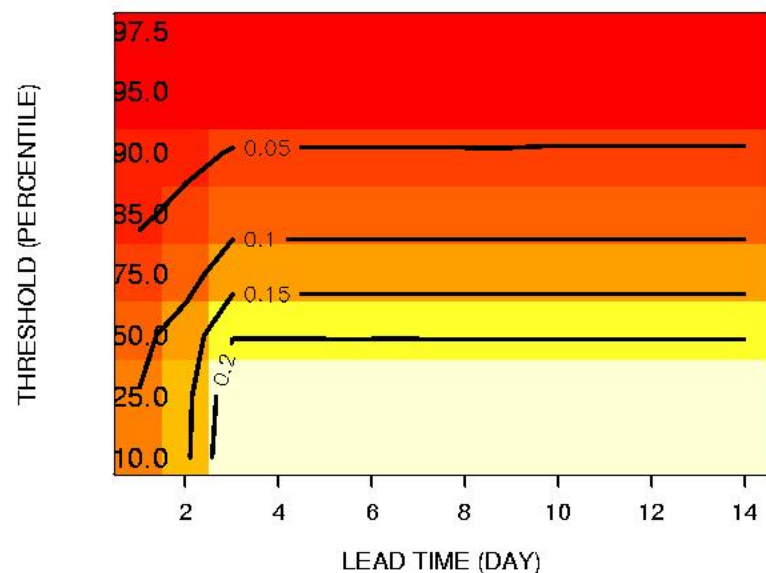
Hydrologic Ensemble Prediction Group
Hydrologic Science and Modeling Branch
Hydrology Laboratory
Office of Hydrologic Development
NOAA/National Weather Service

MARFC/Juniata/10 Segments

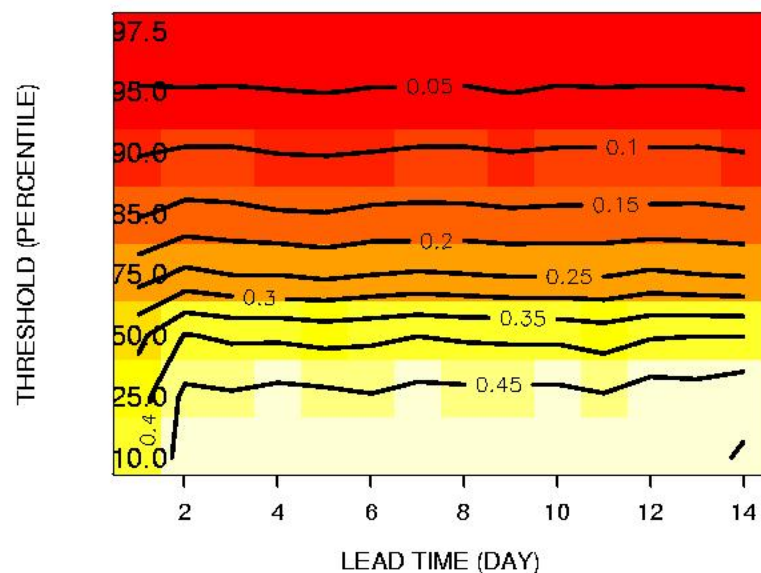
Huntingdon
Lewistown
Mapleton
Newport
Portroyal
Raystown
Saxton
Shirleysburg
Sprucecreek
Williamsburg



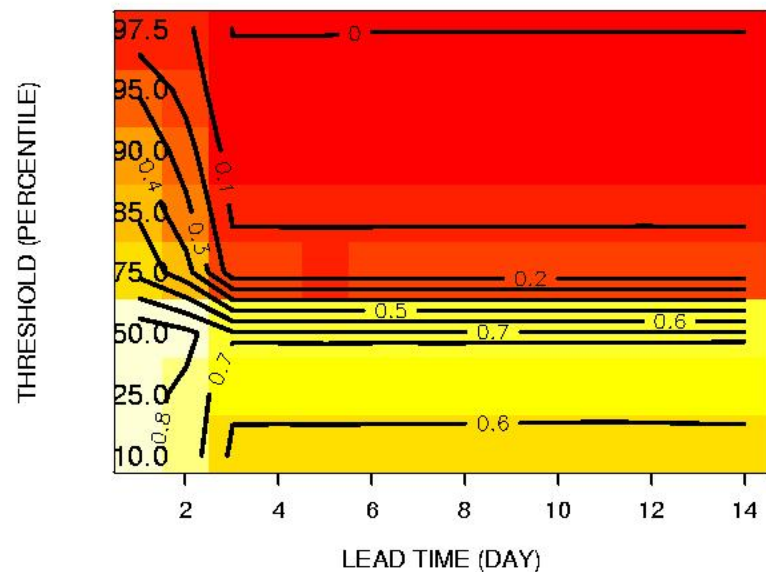
MARFC – BS, ENSEMBLE FCST OF 24HR PRECIP.



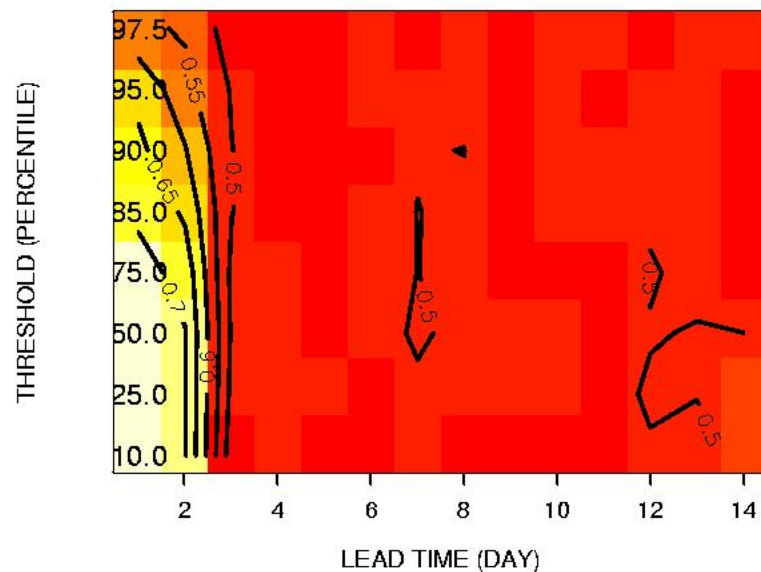
MARFC – BS, PERSISTENCE FCST OF 24HR PRECIP.



MARFC – BSS, ENSEMBLE FCST VS. CLIMATOLOGY



MARFC – BSS, ENSEMBLE FCST VS. PERSISTENCE

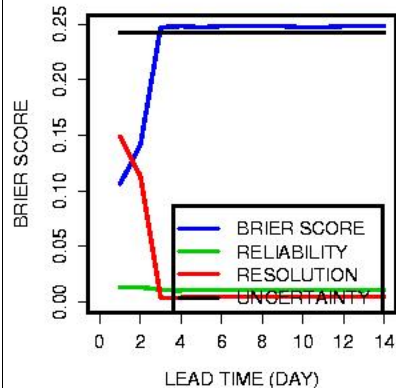




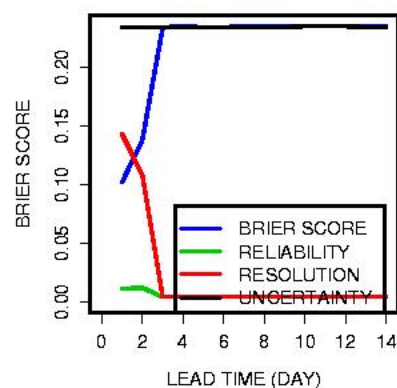
Precipitation amounts in mm

	10.0 th	25.0 th	50.0 th	75.0 th	85.0 th	90.0 th	95.0 th	97.0 th
huntingdon	0.051	0.229	1.422	5.867	10.262	13.792	20.142	24.636
lewistown	0.076	0.432	2.286	7.671	12.598	16.561	23.012	28.423
mapleton	0.076	0.365	1.803	6.807	11.227	14.961	21.234	26.162
newport	0.051	0.279	1.676	6.452	10.871	14.701	2.082	26.391
portroyal	0.127	0.559	2.515	7.899	12.700	16.815	24.282	30.226
raystown	0.051	0.279	1.829	6.883	11.480	15.367	21.539	26.035
saxton	0.076	0.305	1.626	6.071	10.389	13.995	20.345	24.435
shirleysburg	0.076	0.432	2.184	7.315	11.826	15.951	22.860	27.534
sprucecreek	0.051	0.254	1.753	6.528	11.151	14.783	21.565	26.010
williamsburg	0.076	0.305	1.600	6.198	10.566	14.173	20.498	24.409

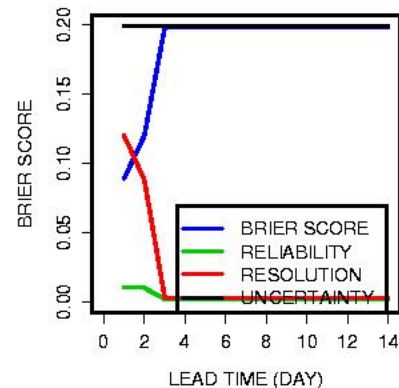
MARFC – 24HR PRECIP., 10.0TH PER.



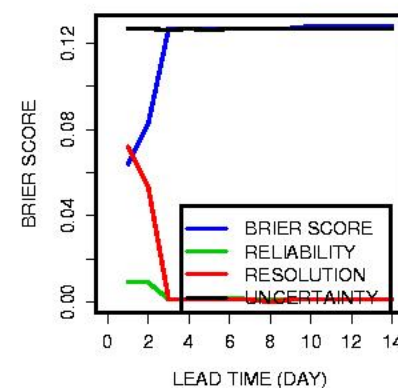
MARFC – 24HR PRECIP., 25.0TH PER.



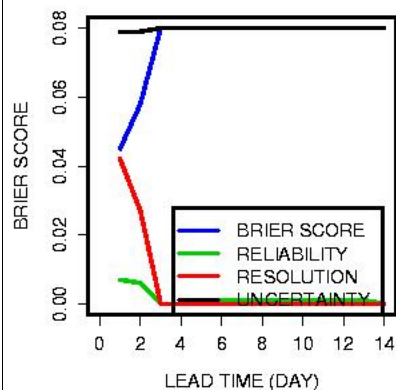
MARFC – 24HR PRECIP., 50.0TH PER.



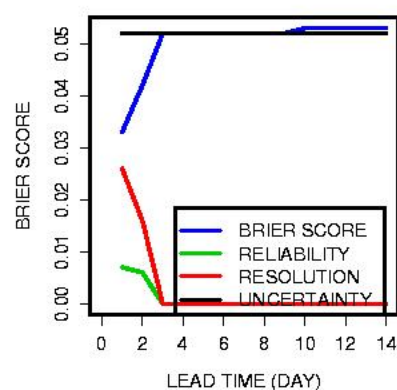
MARFC – 24HR PRECIP., 75.0TH PER.



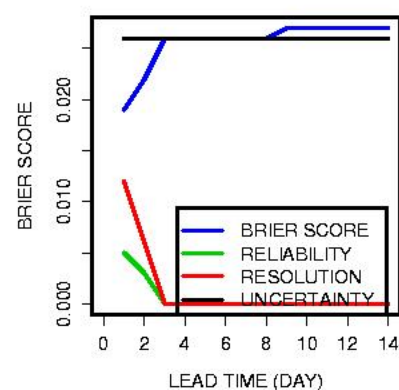
MARFC – 24HR PRECIP., 85.0TH PER.



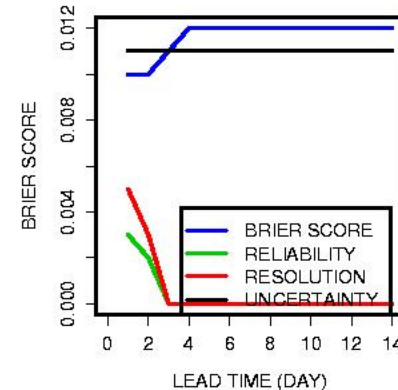
MARFC – 24HR PRECIP., 90.0TH PER.



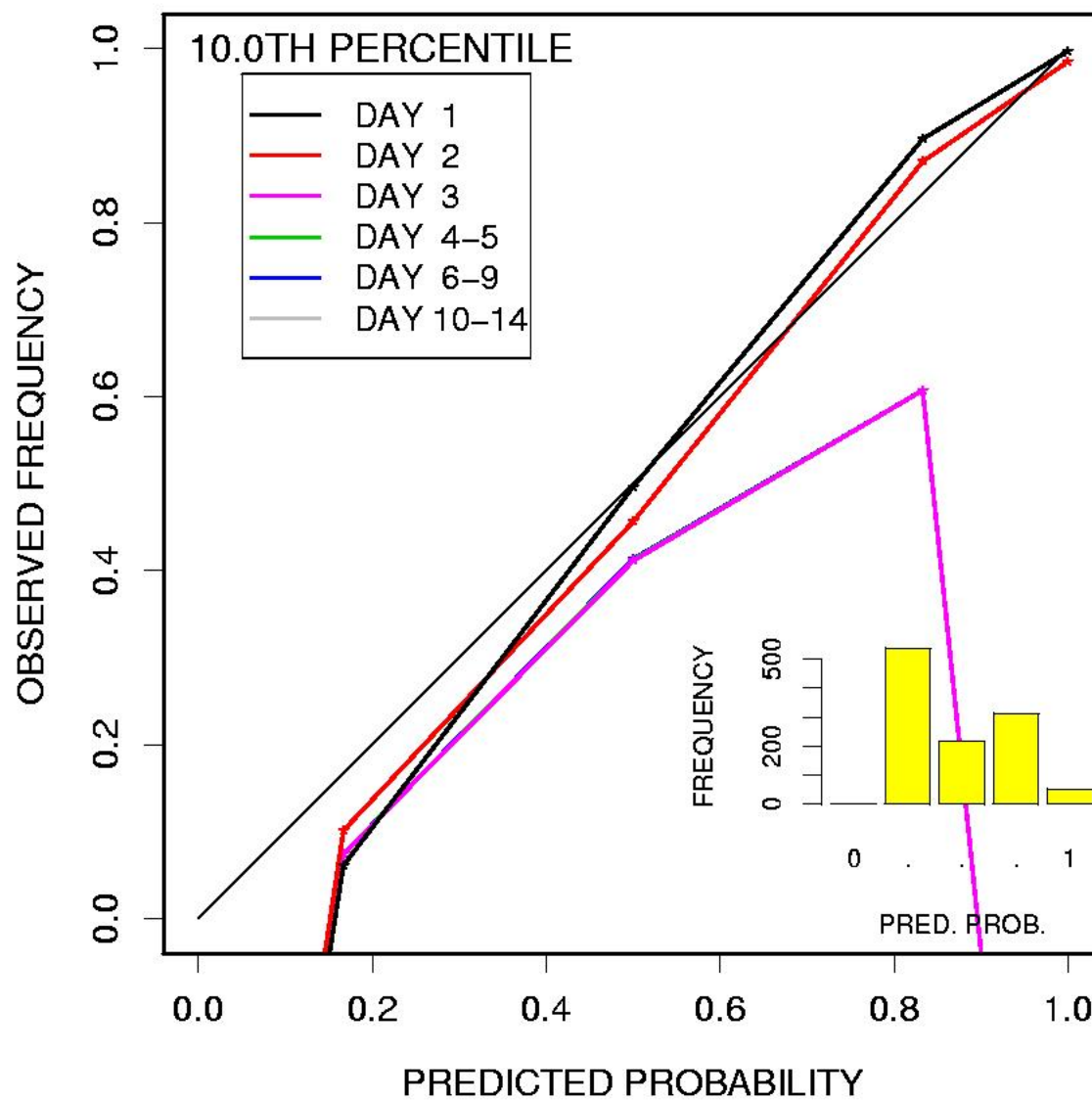
MARFC – 24HR PRECIP., 95.0TH PER.



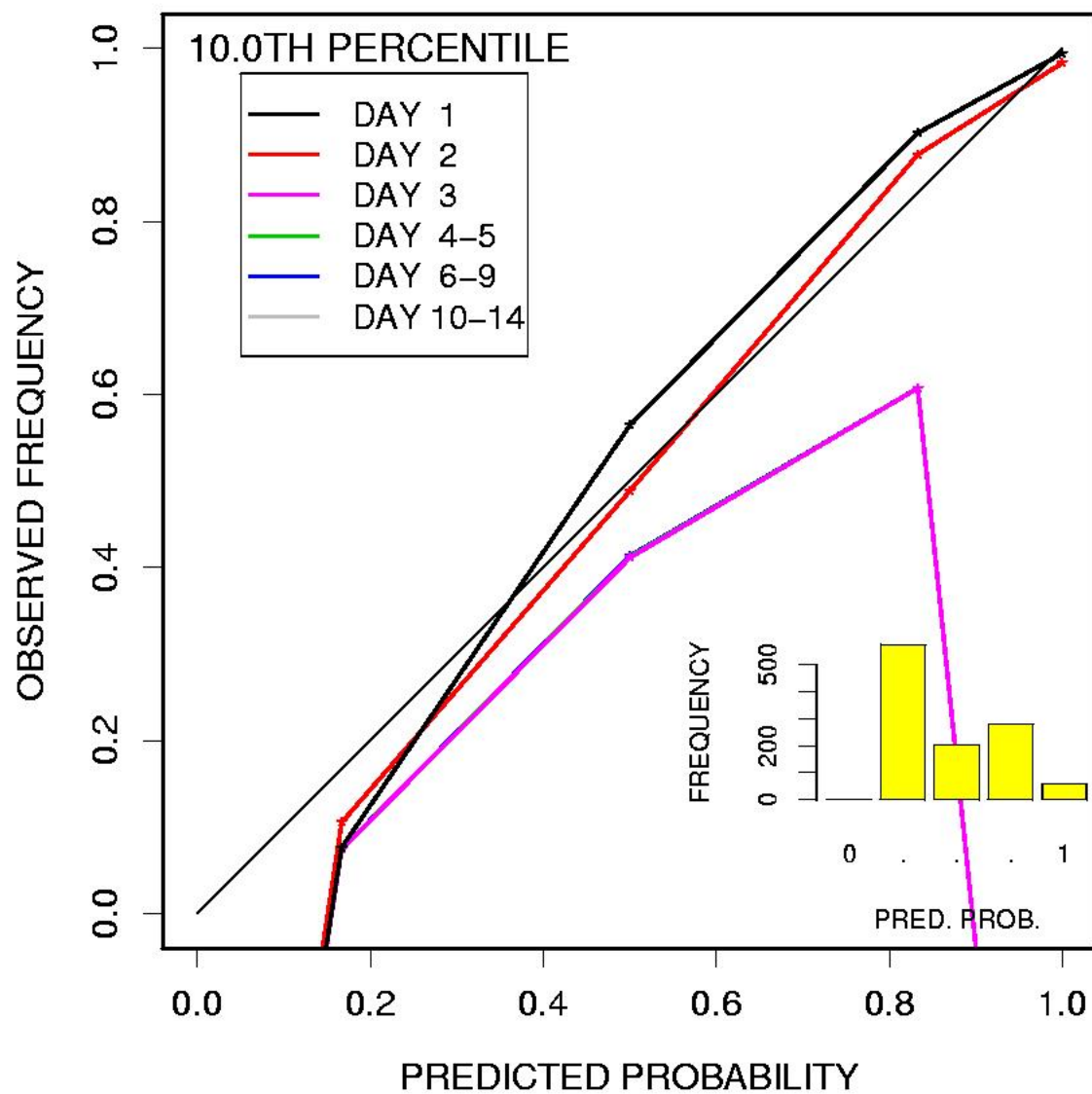
MARFC – 24HR PRECIP., 97.5TH PER.



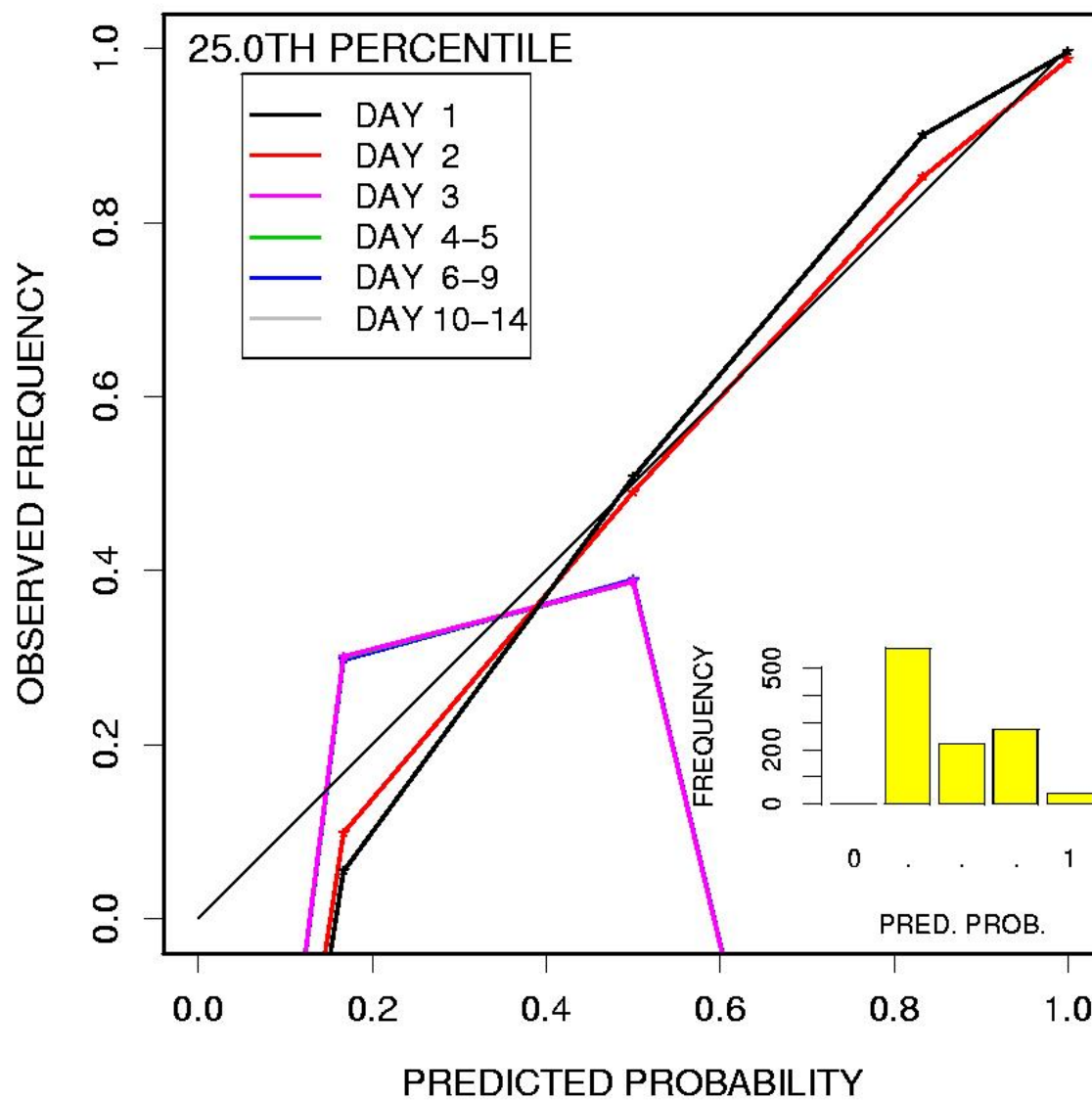
MARFC – RELIABILITY DIAGRAM, 24-HR PRECIP., AN



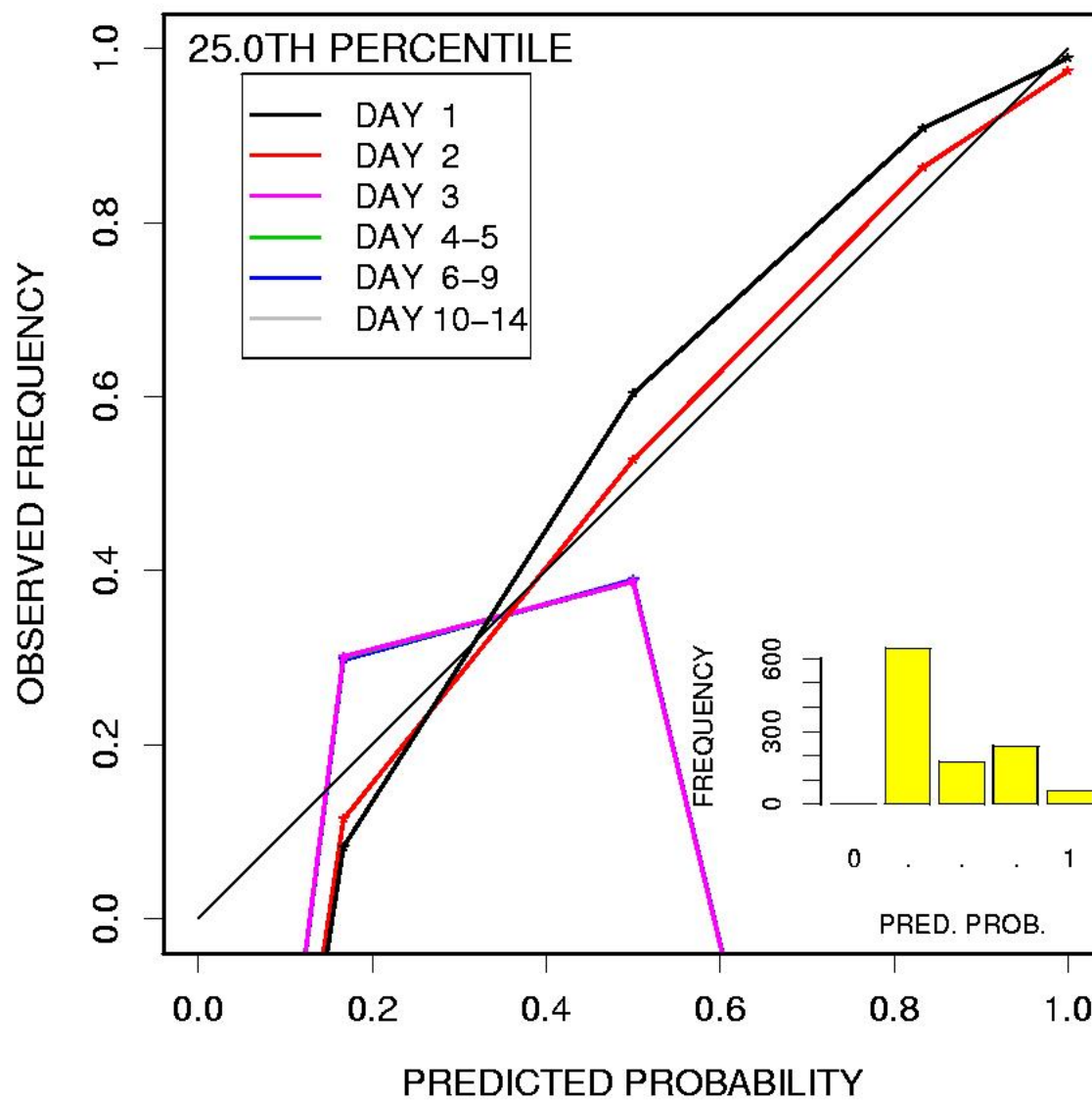
MARFC – RELIABILITY DIAGRAM, 24-HR PRECIP., AN



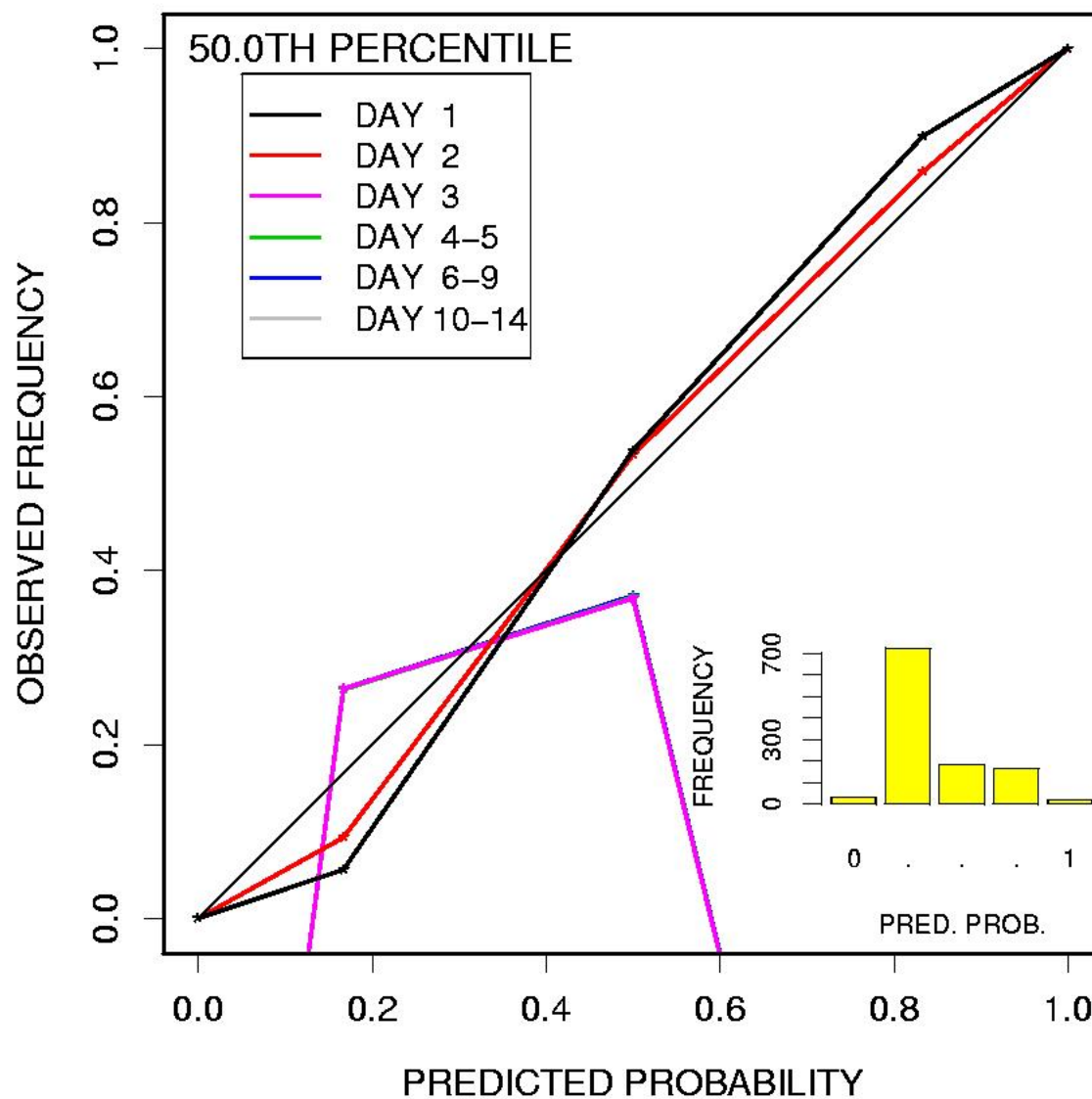
MARFC – RELIABILITY DIAGRAM, 24-HR PRECIP., AN



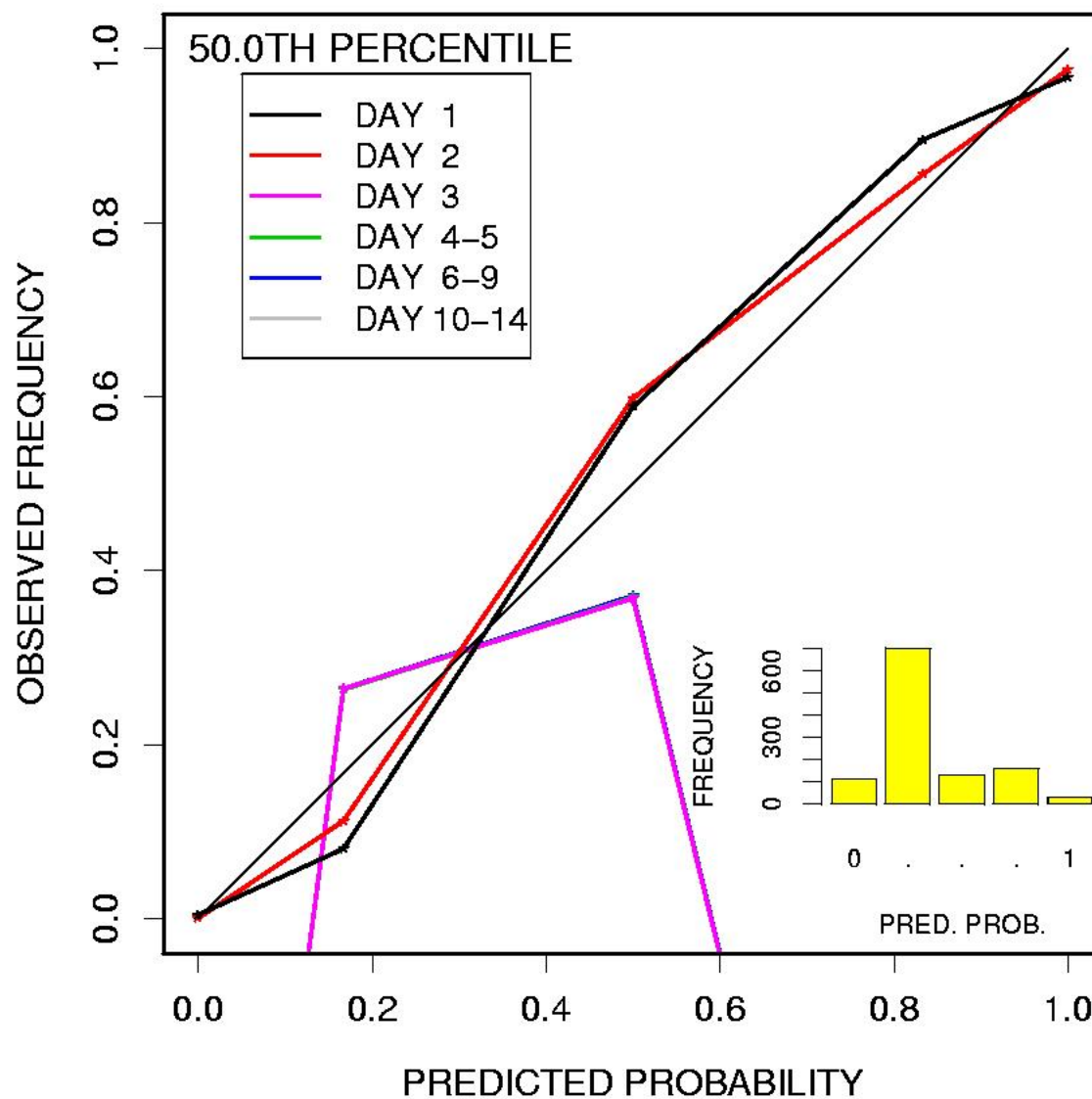
MARFC – RELIABILITY DIAGRAM, 24-HR PRECIP., AN



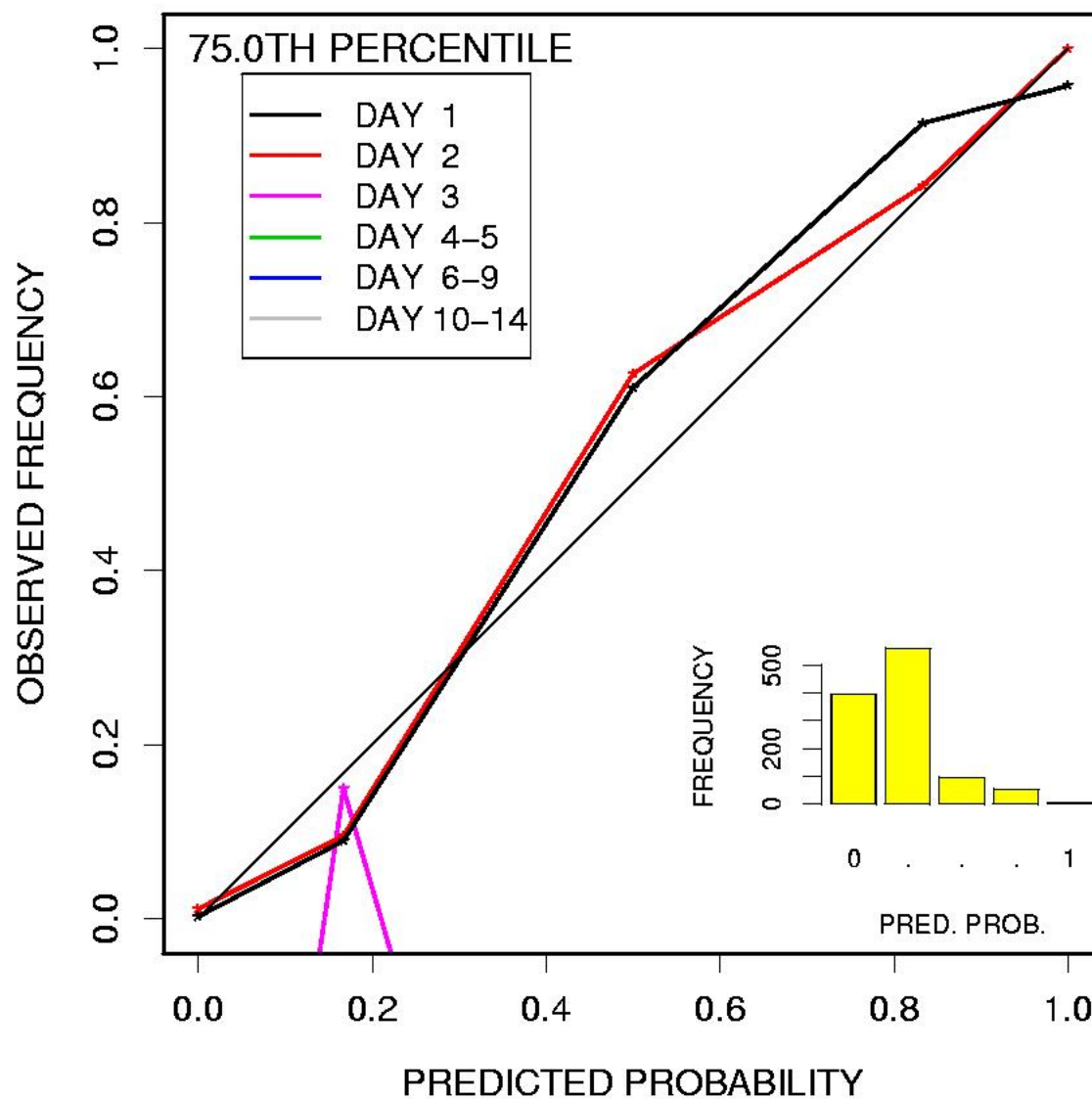
MARFC – RELIABILITY DIAGRAM, 24-HR PRECIP., AN



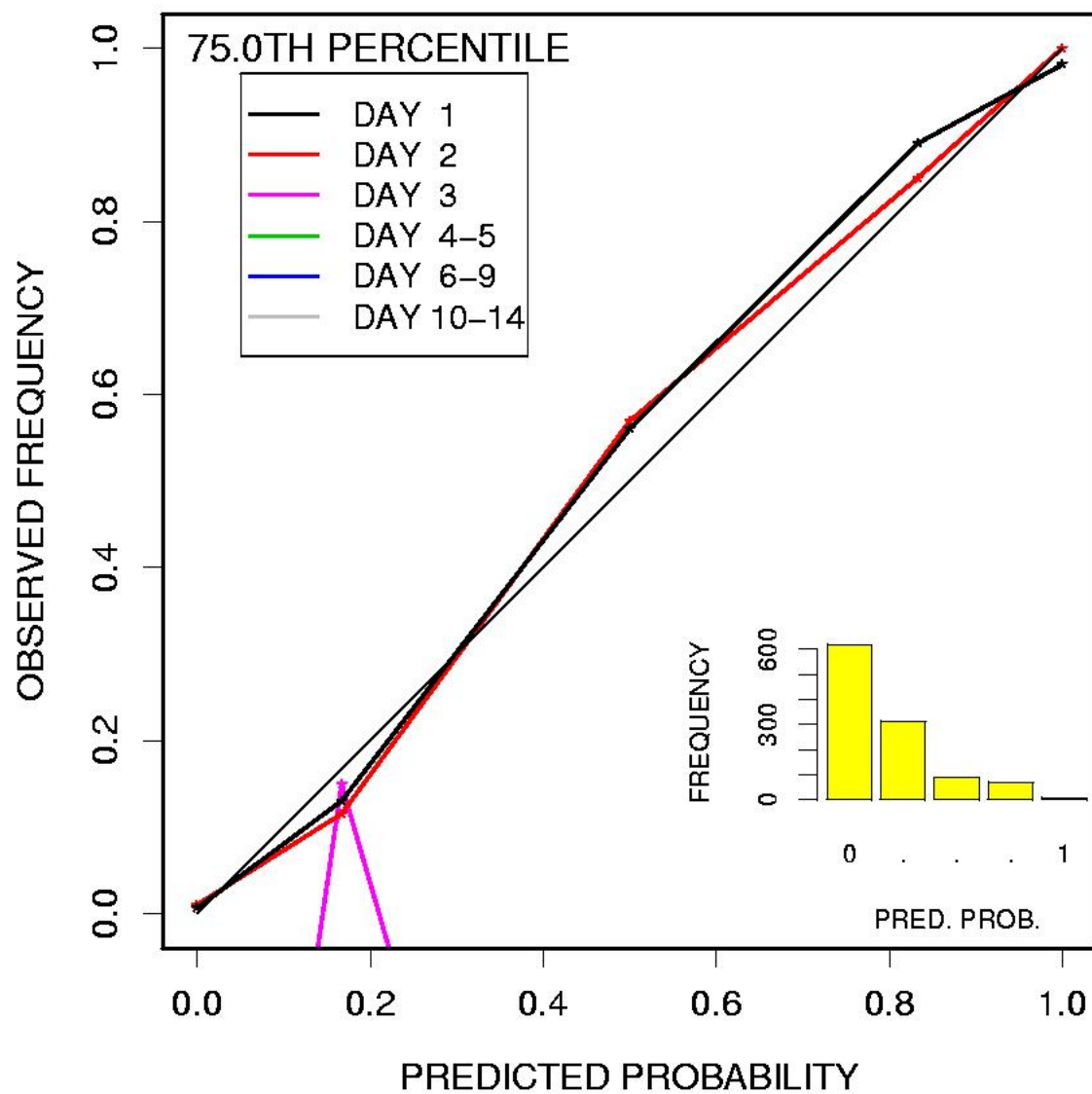
MARFC – RELIABILITY DIAGRAM, 24-HR PRECIP., AN



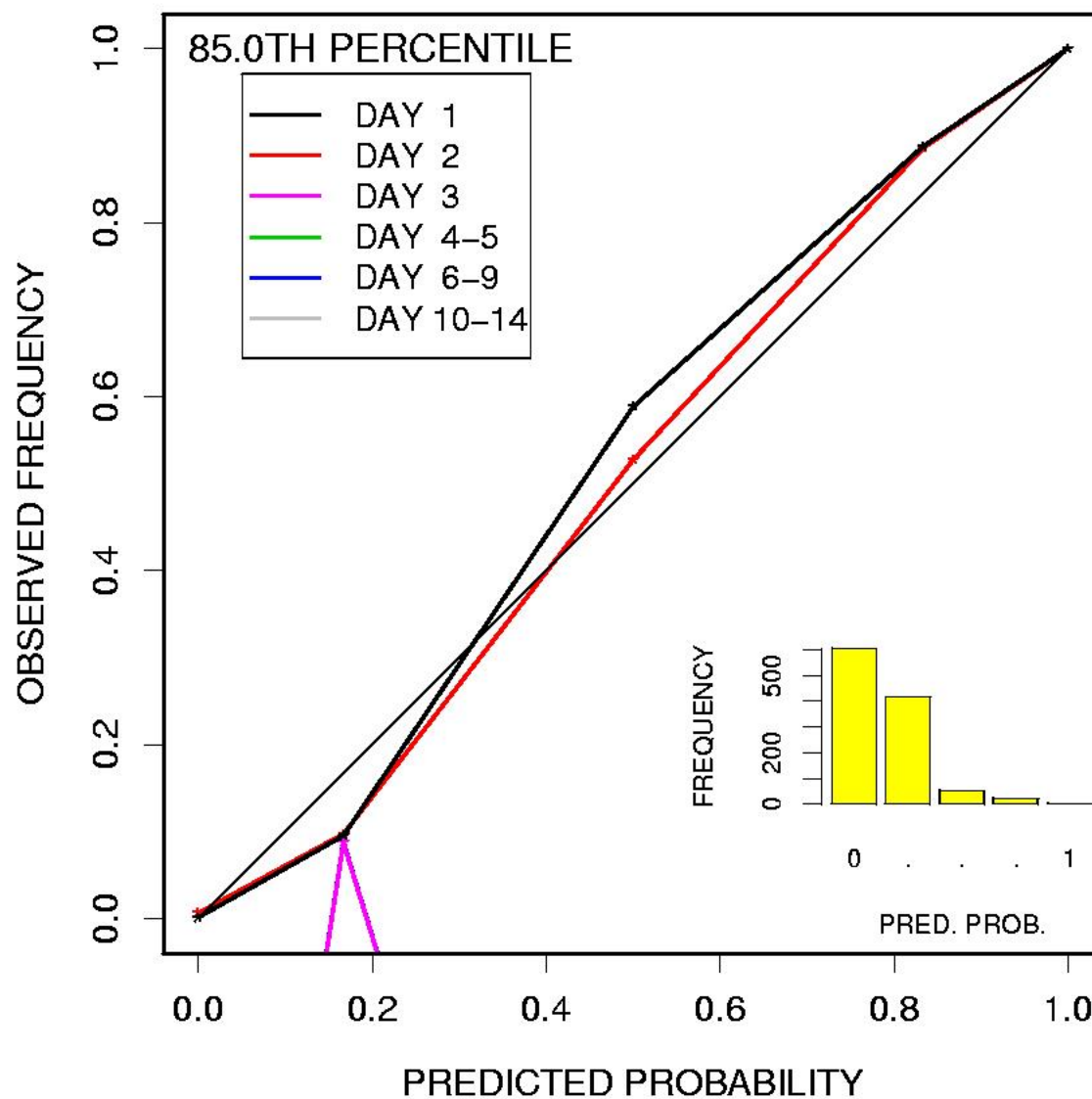
MARFC – RELIABILITY DIAGRAM, 24-HR PRECIP., AN



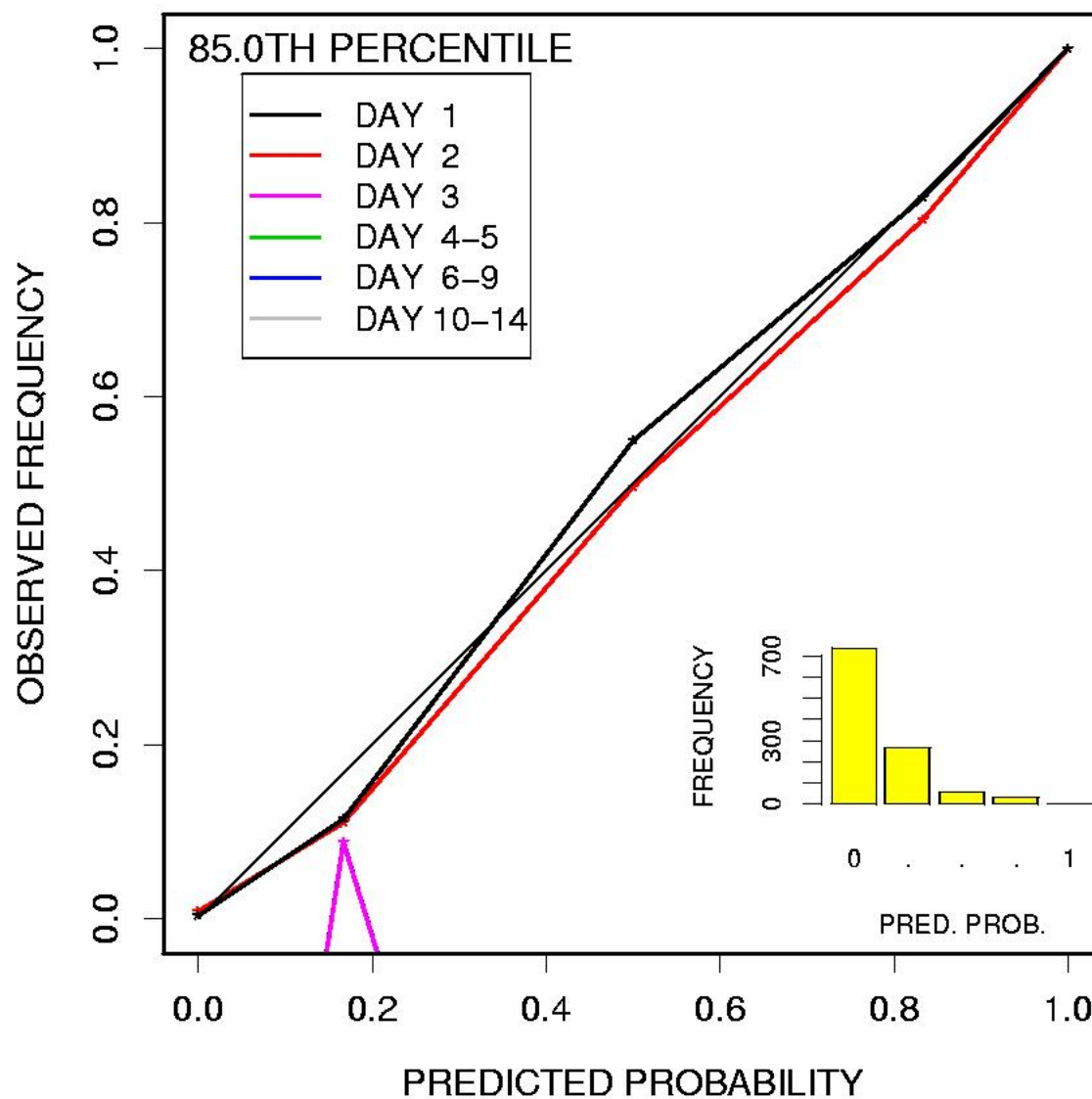
MARFC – RELIABILITY DIAGRAM, 24-HR PRECIP., AN



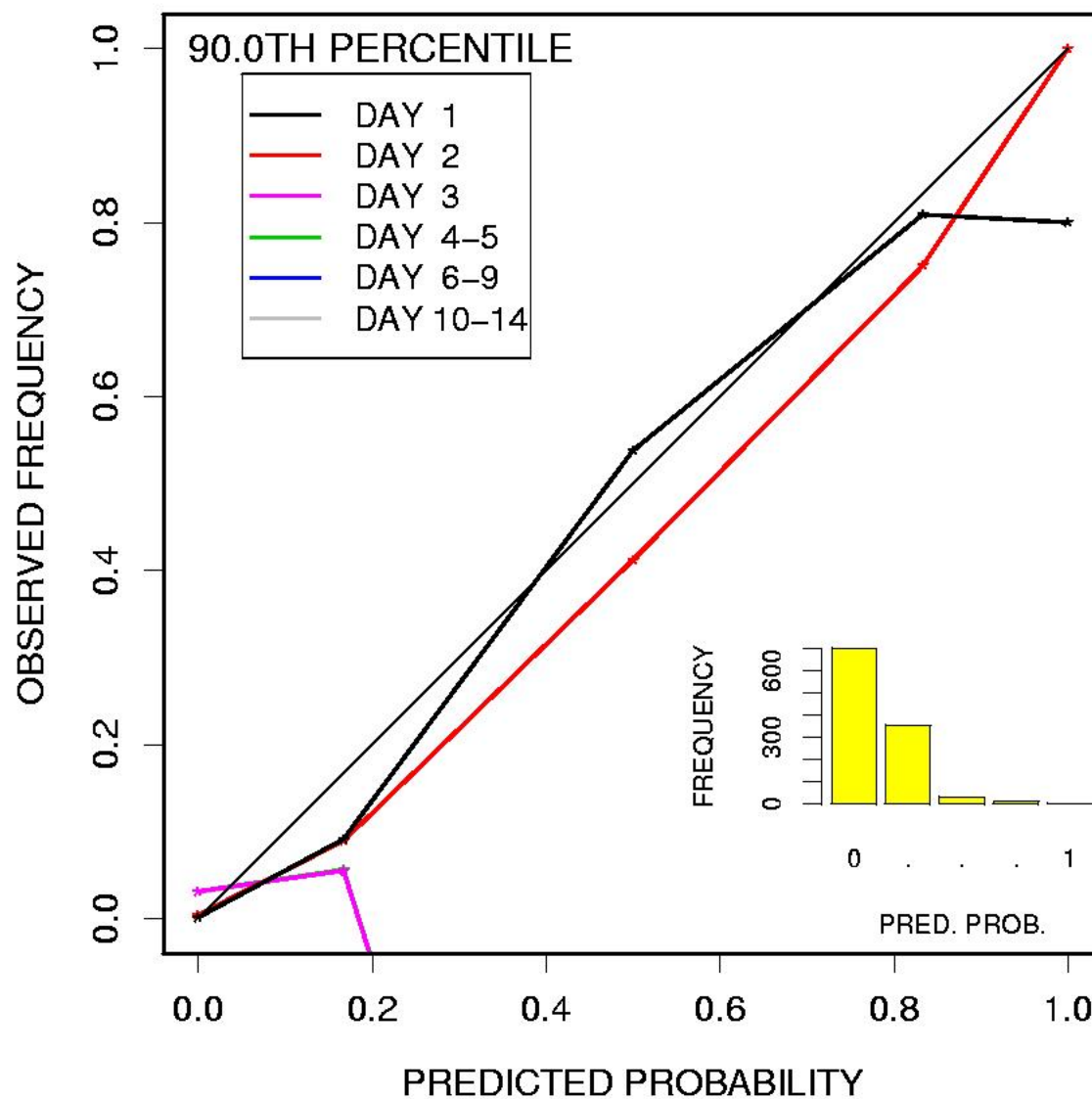
MARFC – RELIABILITY DIAGRAM, 24-HR PRECIP., AN



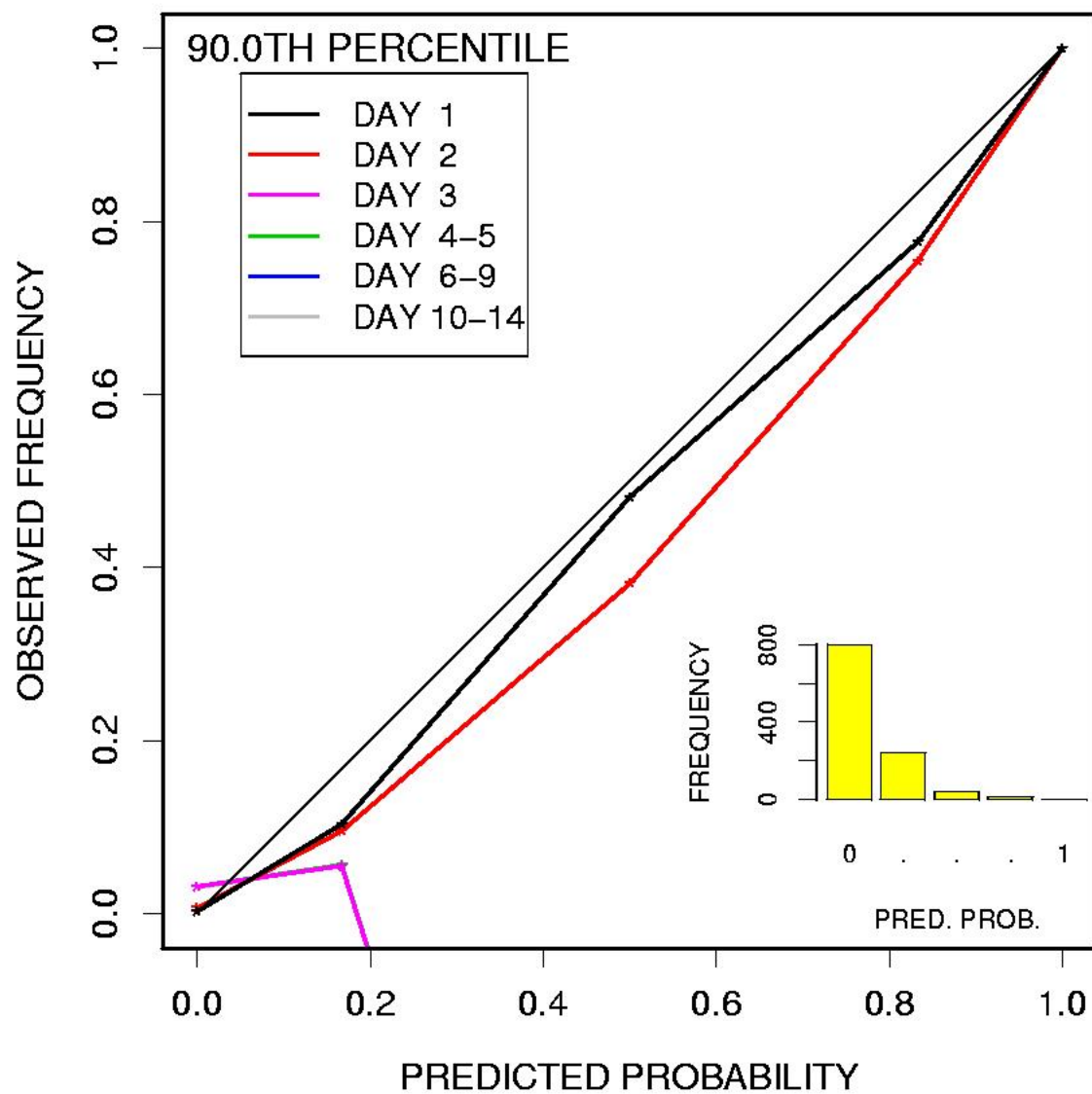
MARFC – RELIABILITY DIAGRAM, 24-HR PRECIP., AN



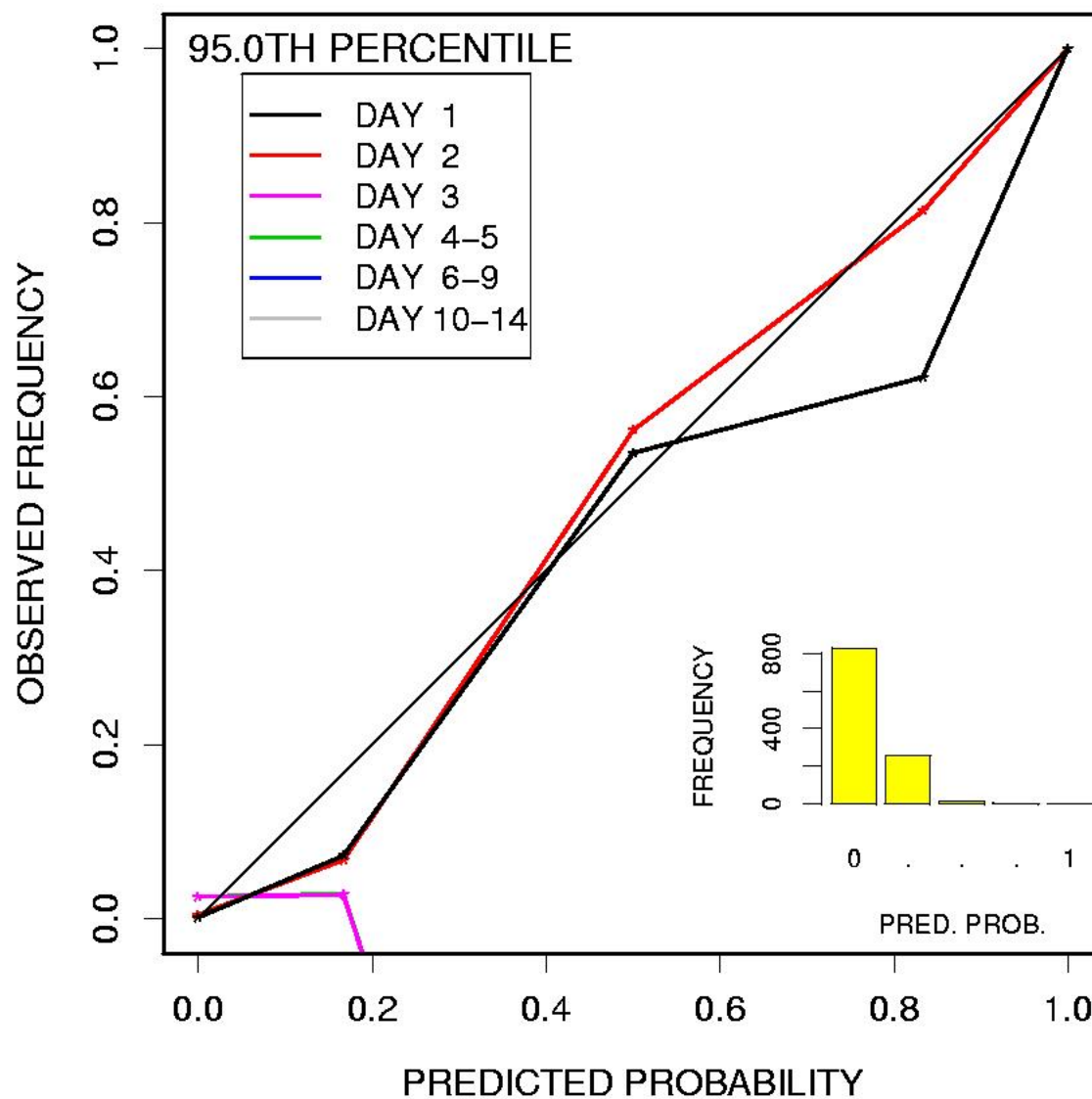
MARFC – RELIABILITY DIAGRAM, 24-HR PRECIP., AN



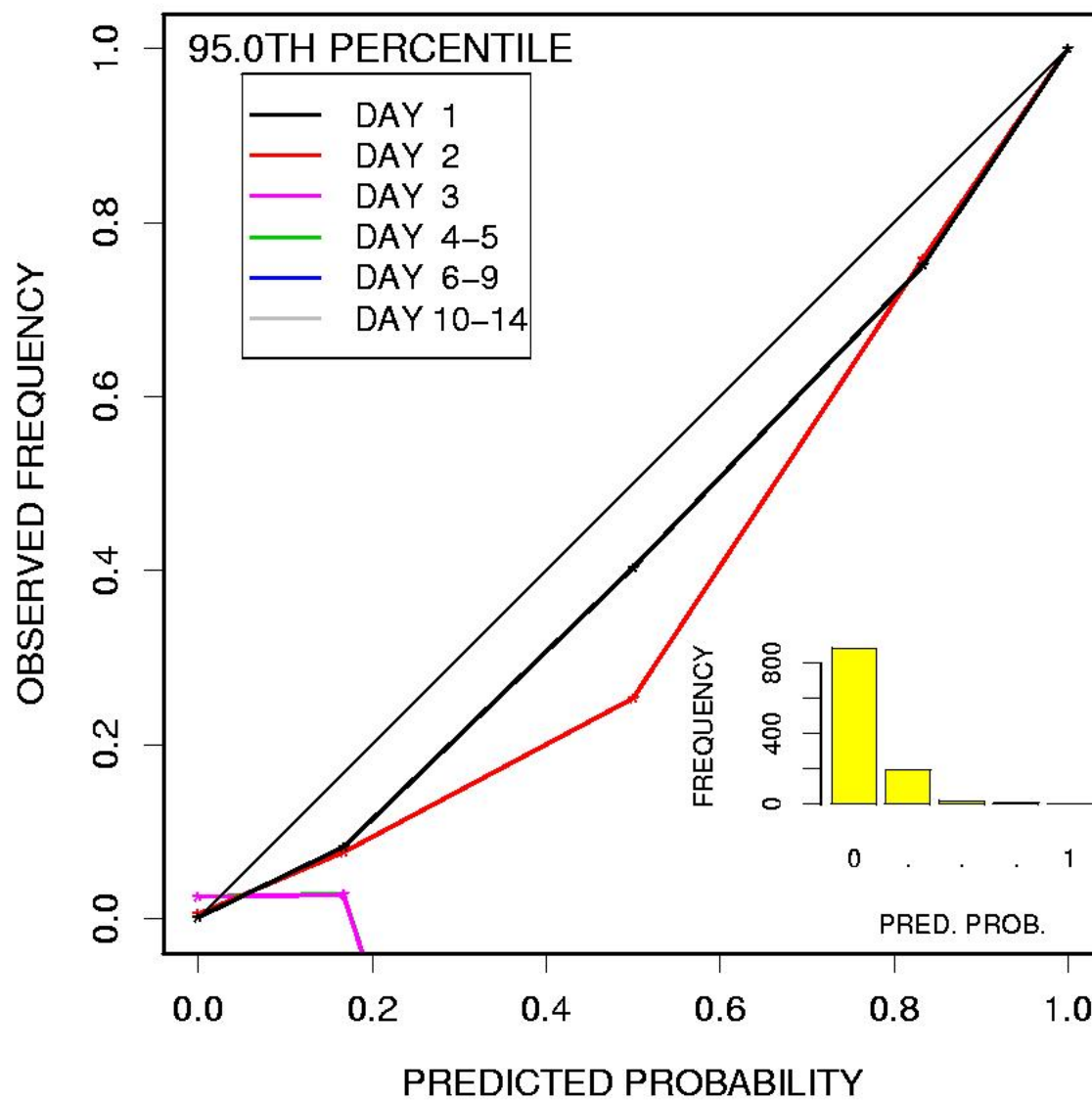
MARFC – RELIABILITY DIAGRAM, 24-HR PRECIP., AN



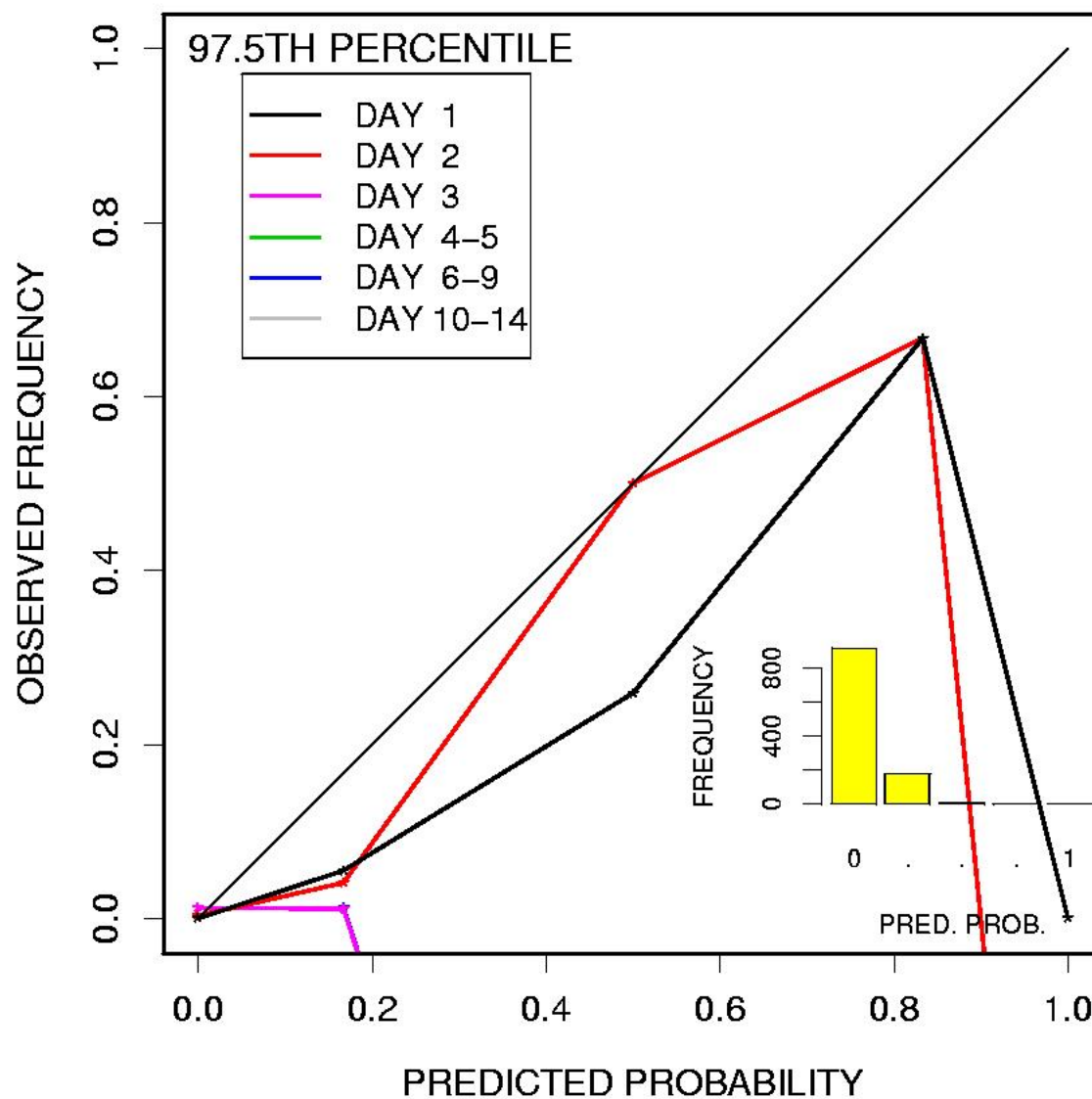
MARFC – RELIABILITY DIAGRAM, 24-HR PRECIP., AN



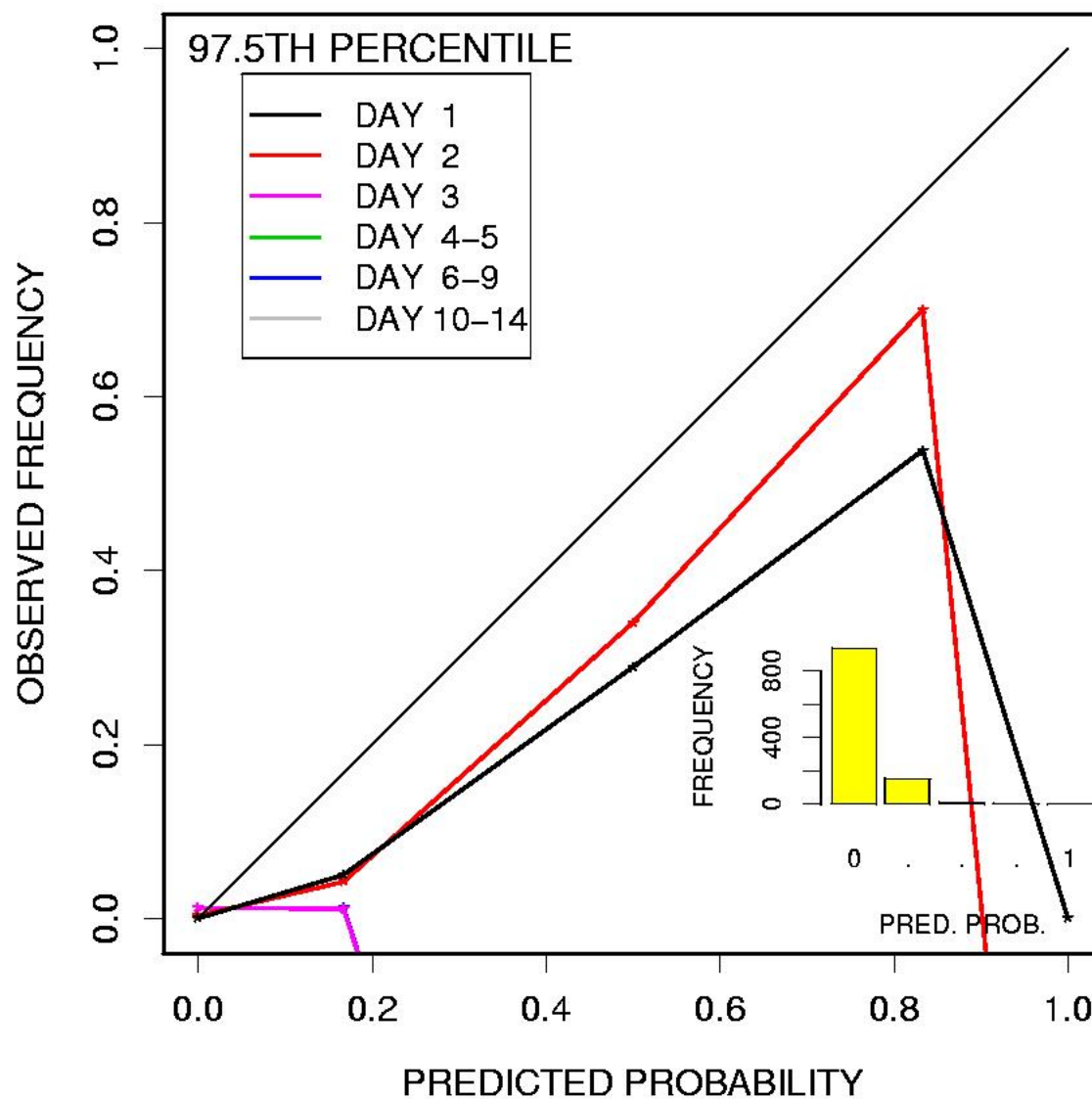
MARFC – RELIABILITY DIAGRAM, 24-HR PRECIP., AN



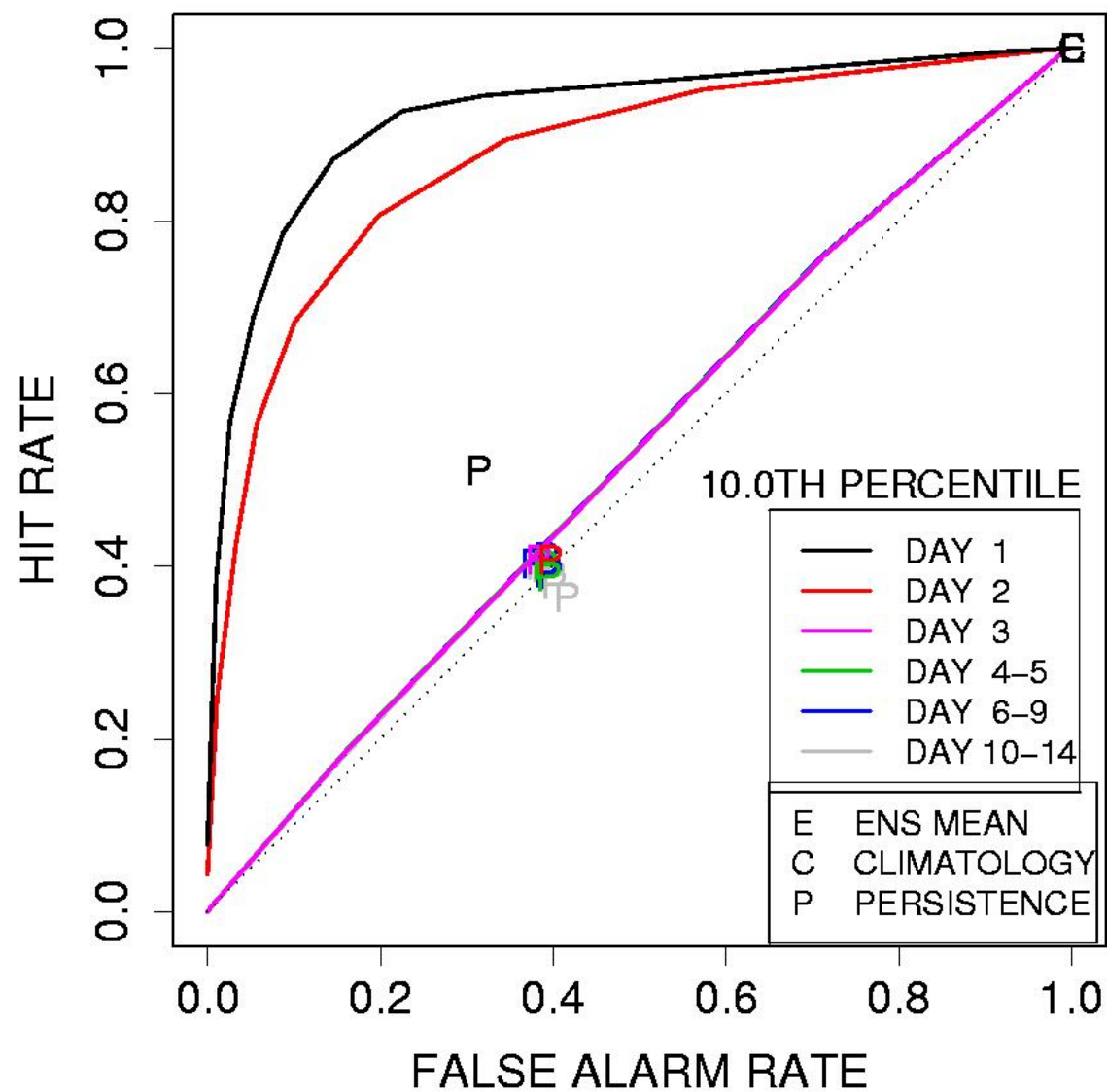
MARFC – RELIABILITY DIAGRAM, 24-HR PRECIP., AN



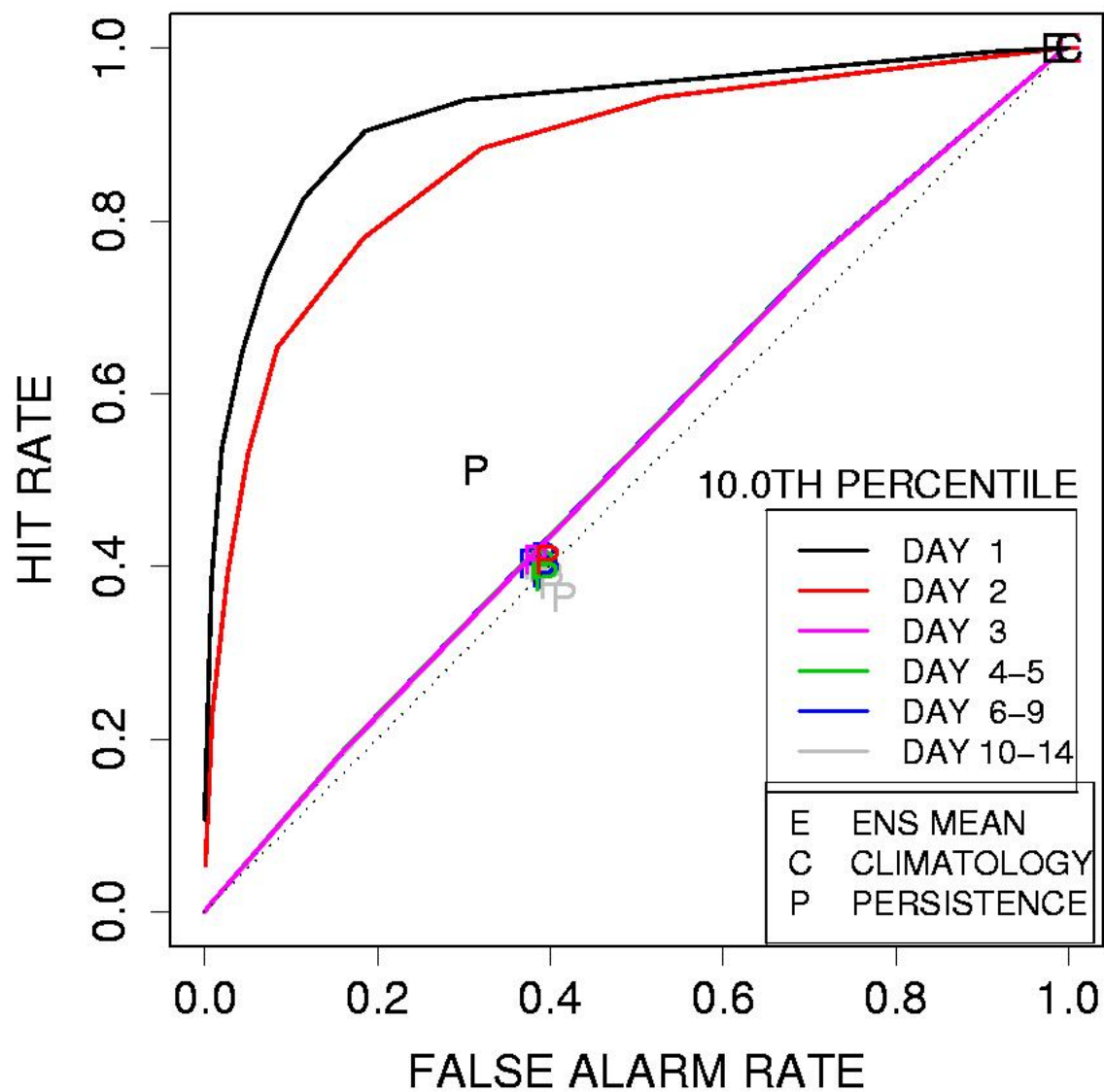
MARFC – RELIABILITY DIAGRAM, 24-HR PRECIP., AN



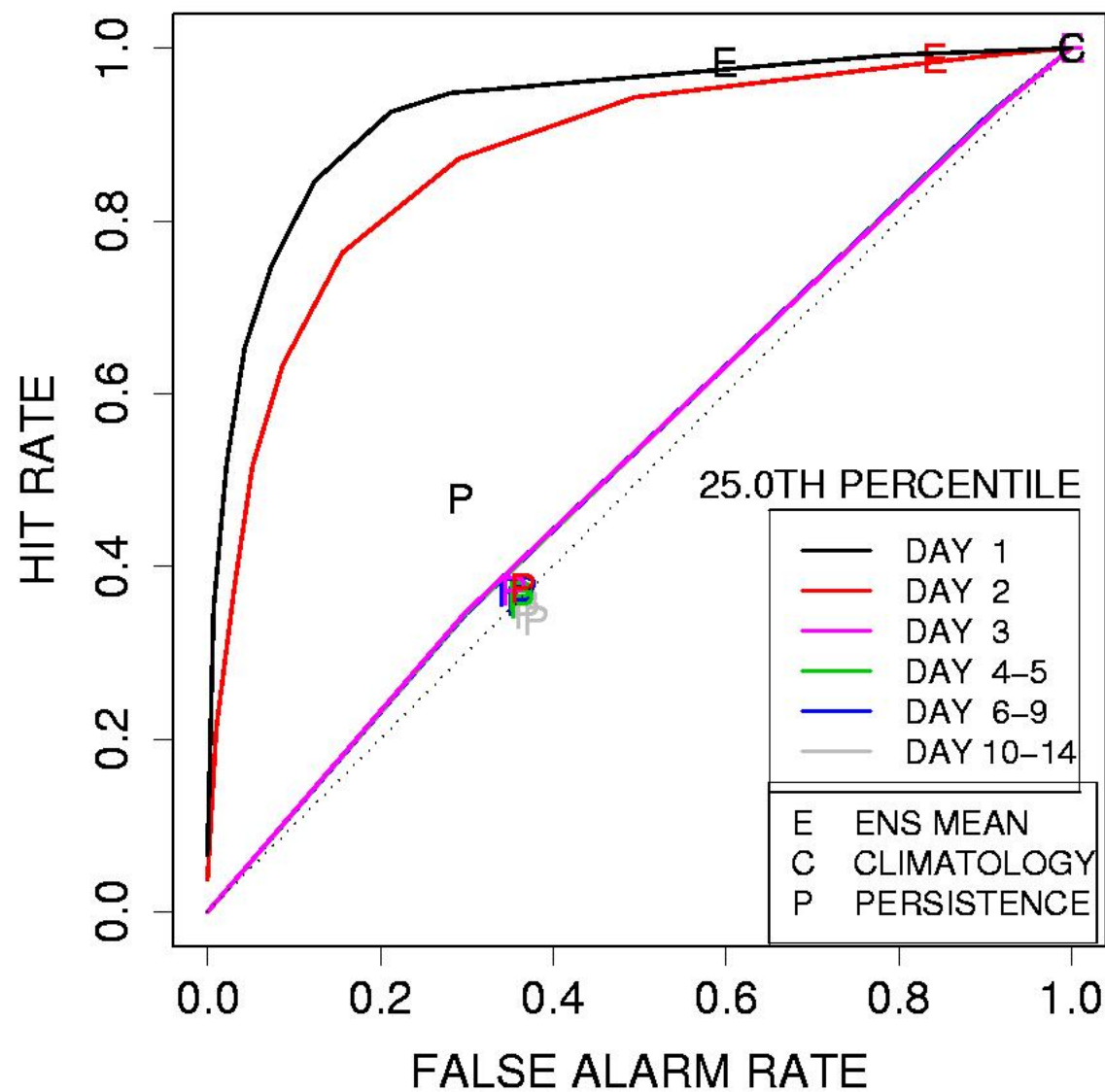
MARFC – ROC, 24-HR PRECIP., AN



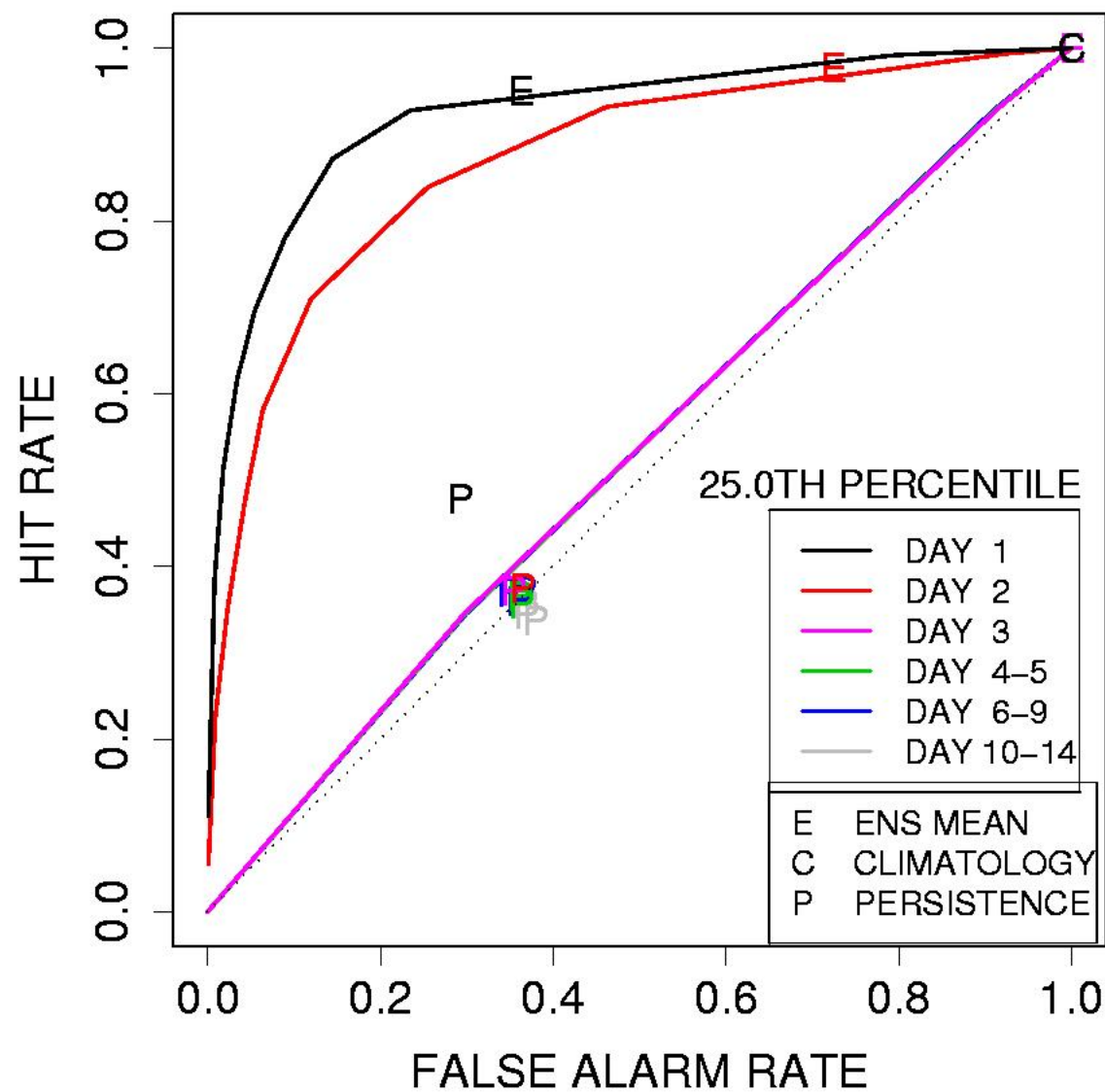
MARFC – ROC, 24-HR PRECIP., AN



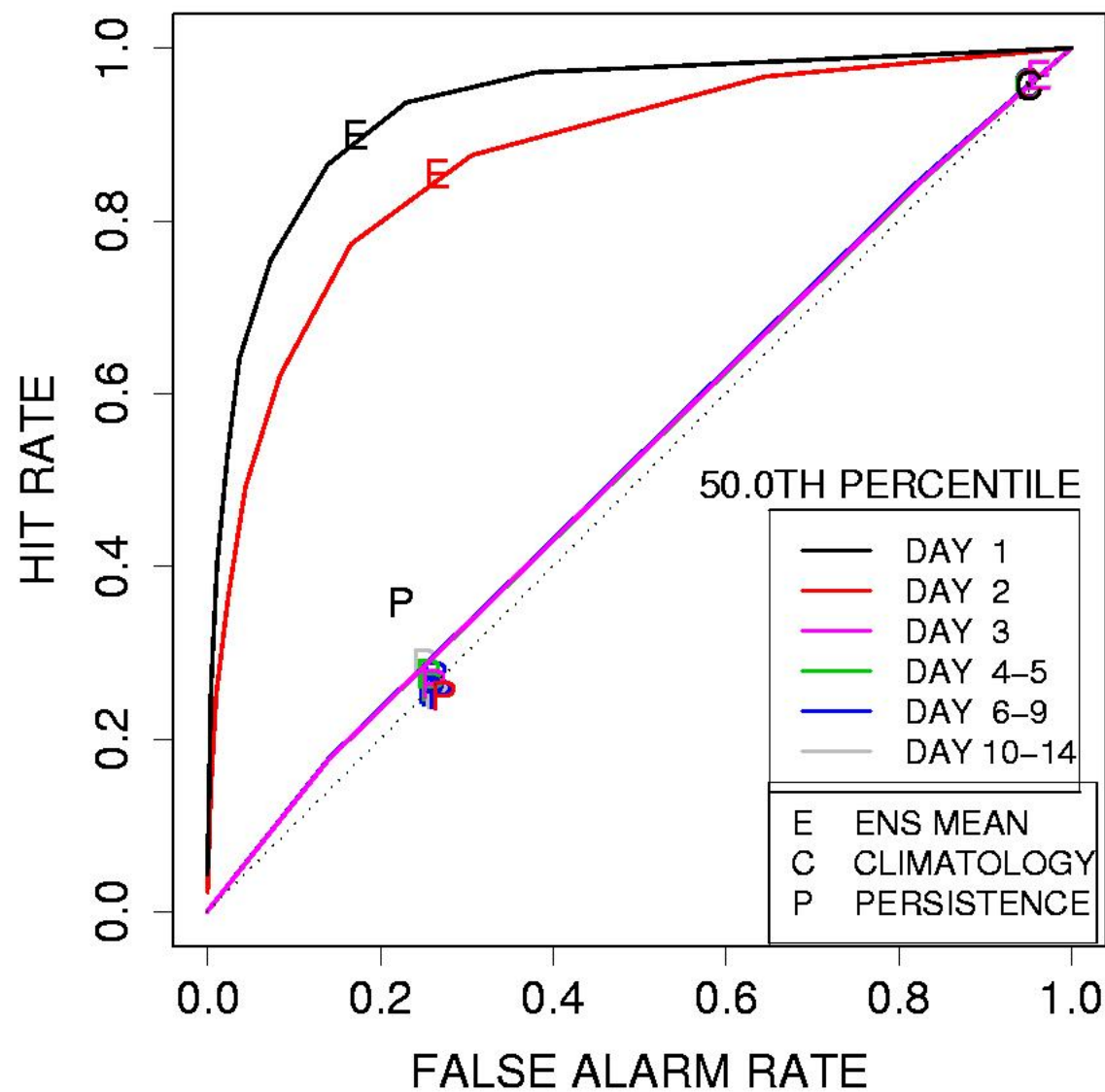
MARFC – ROC, 24-HR PRECIP., AN



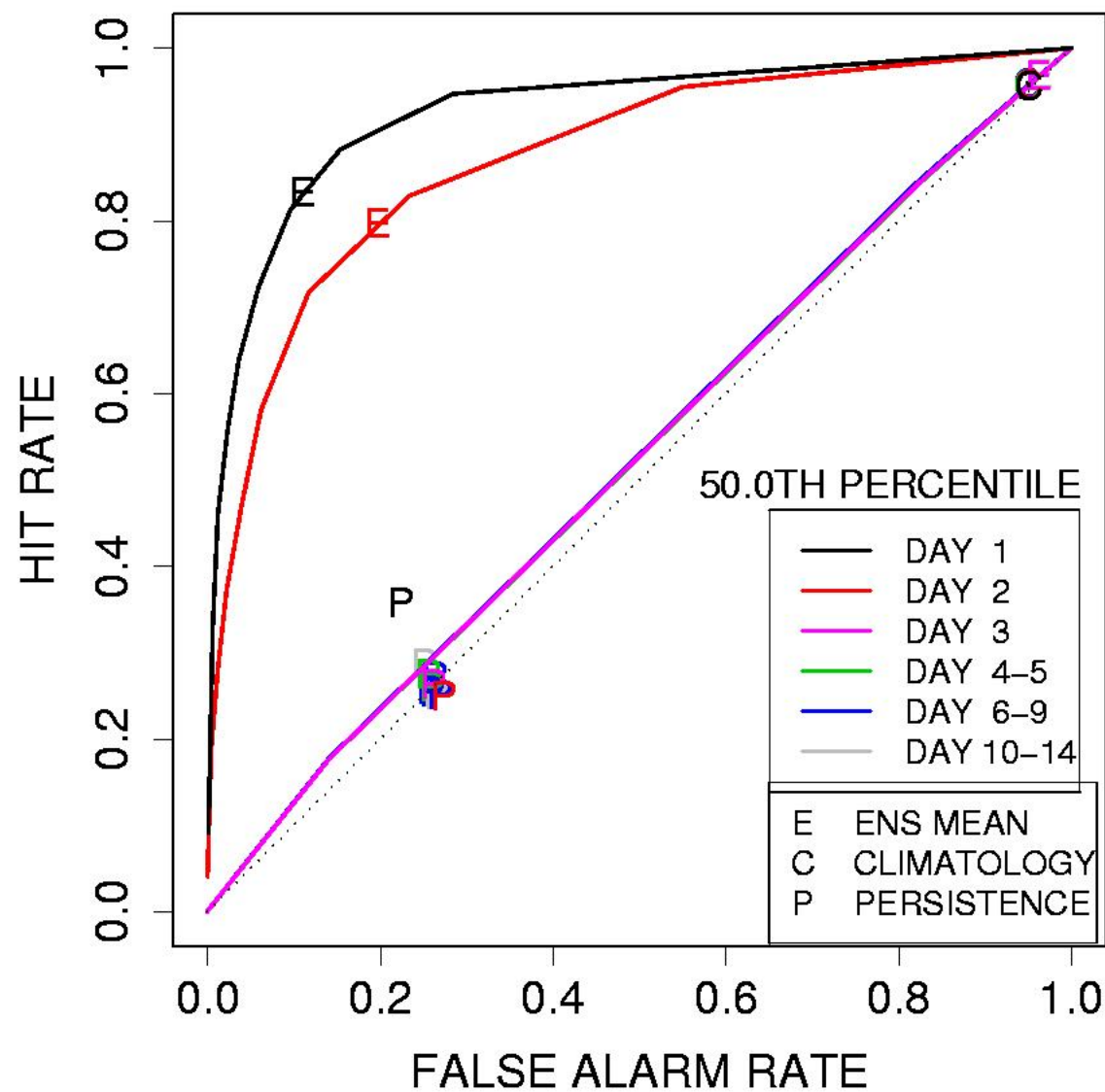
MARFC – ROC, 24-HR PRECIP., AN



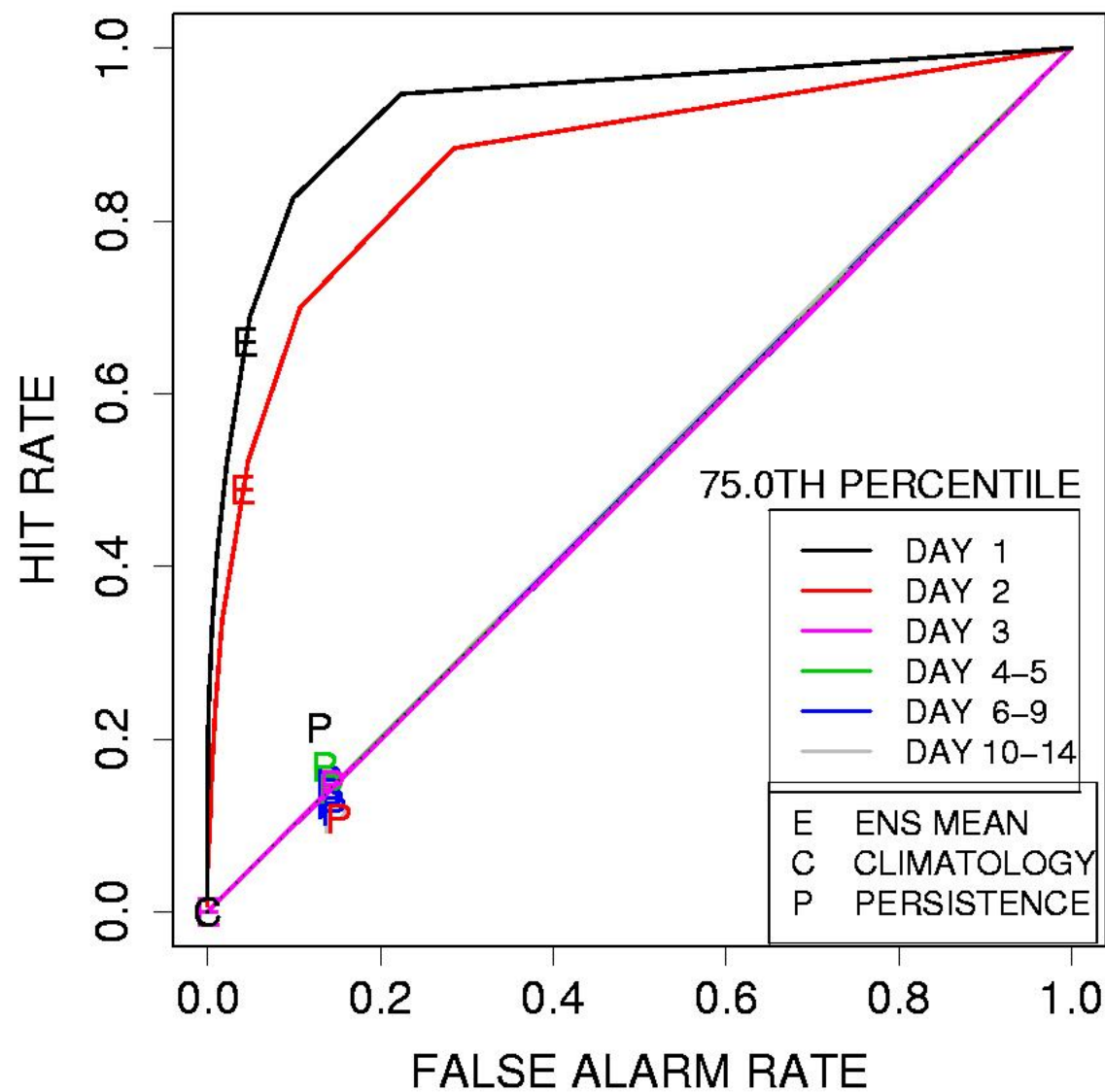
MARFC – ROC, 24-HR PRECIP., AN



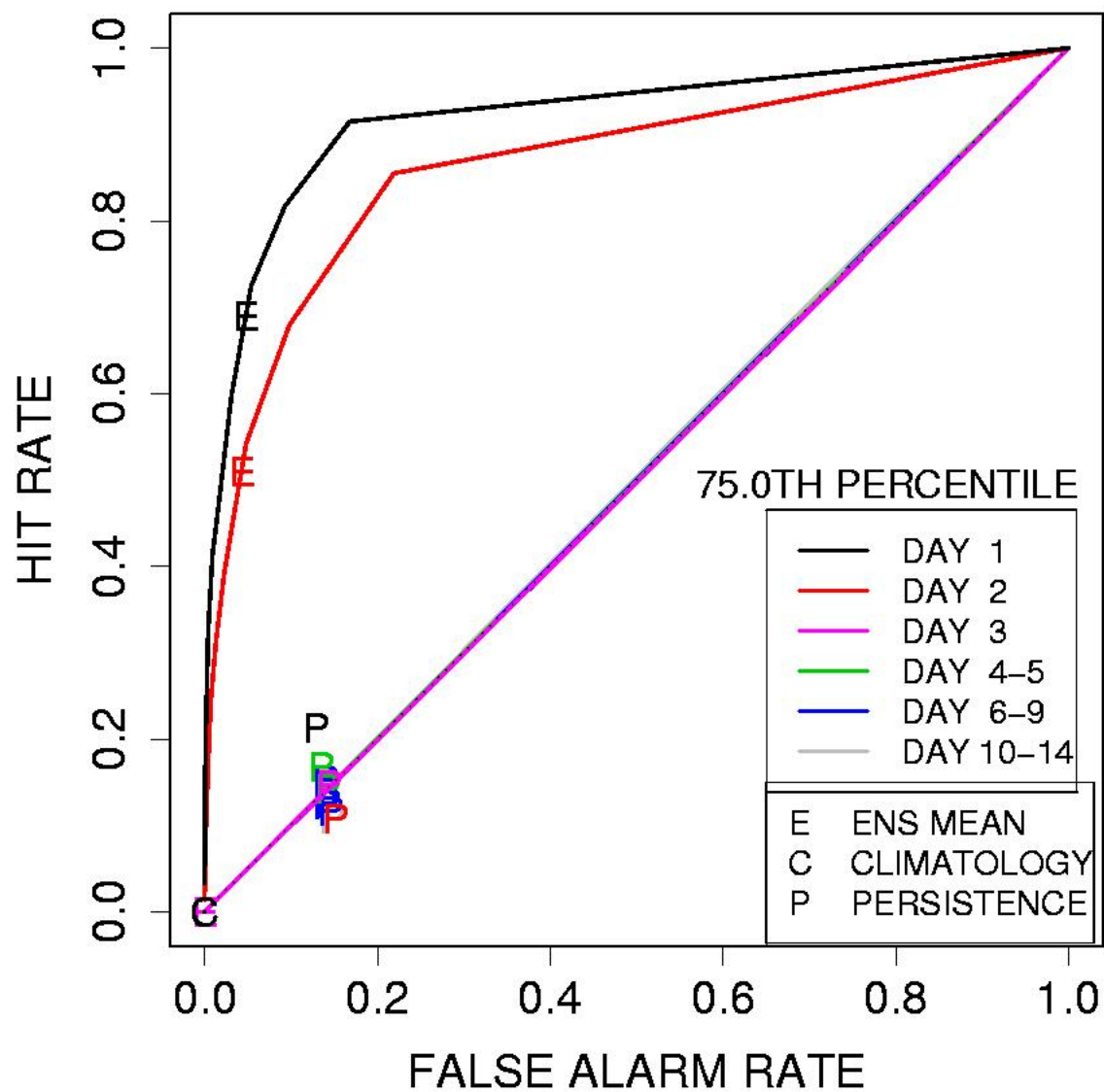
MARFC – ROC, 24-HR PRECIP., AN



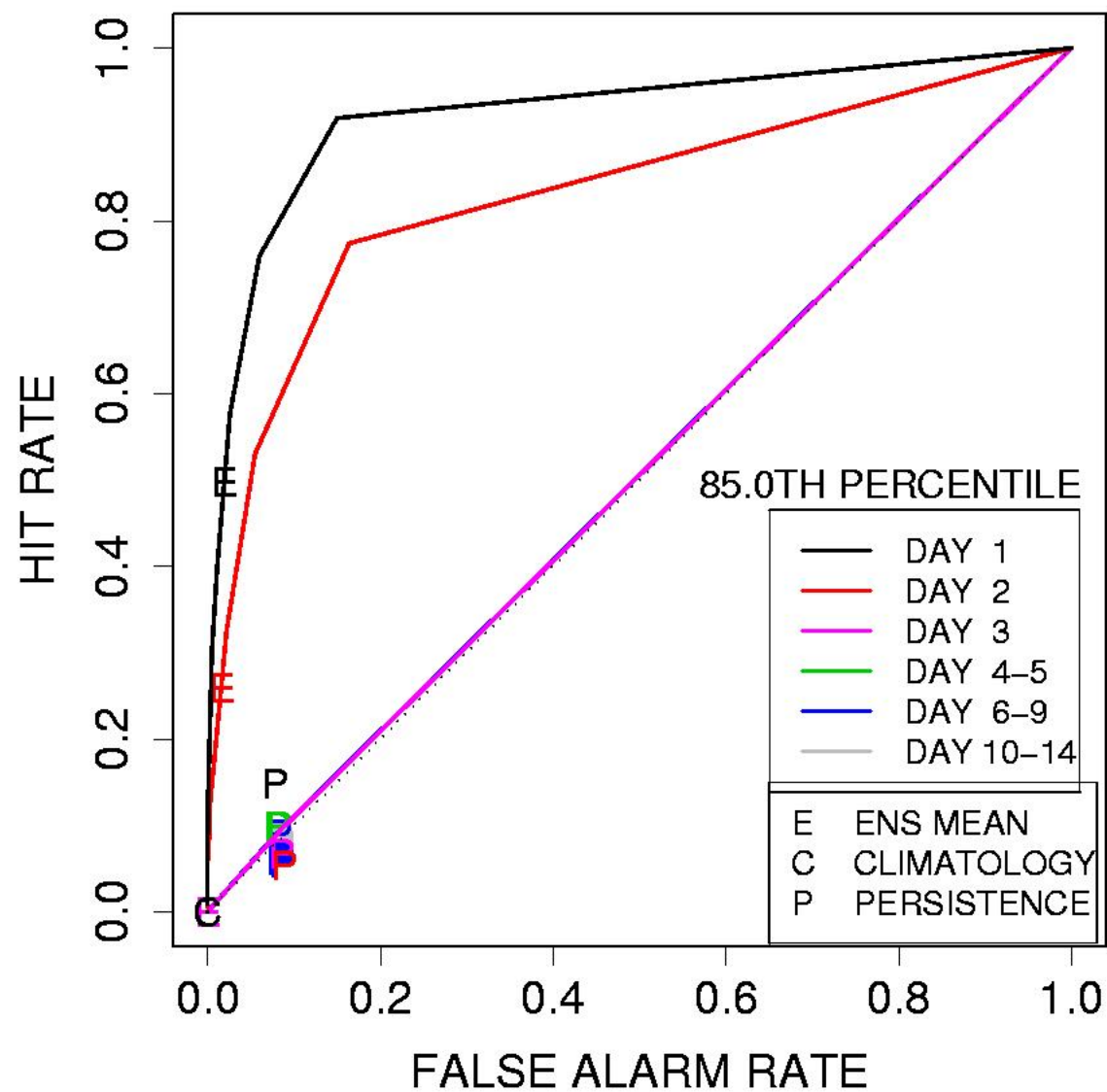
MARFC – ROC, 24-HR PRECIP., AN



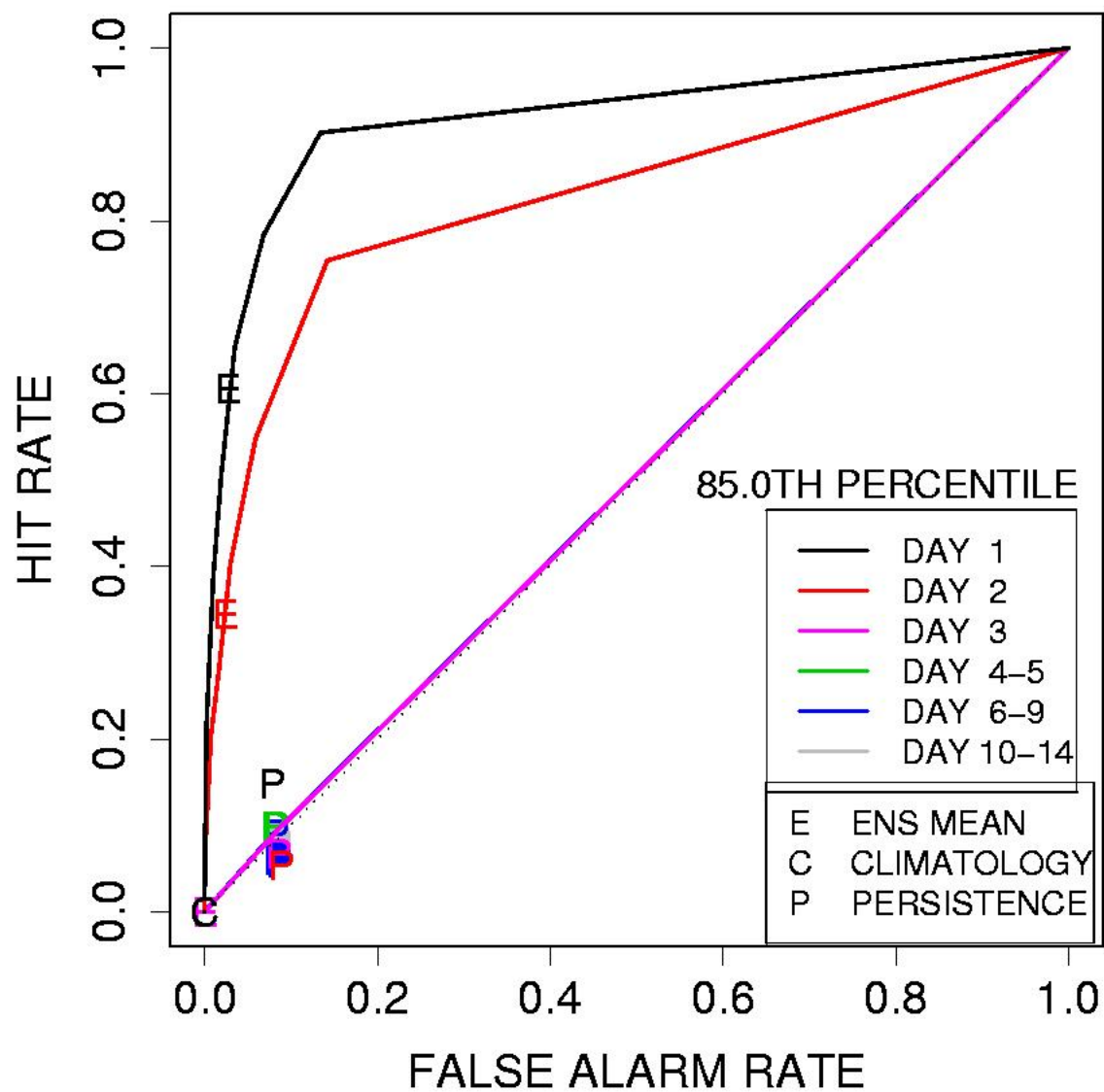
MARFC – ROC, 24-HR PRECIP., AN



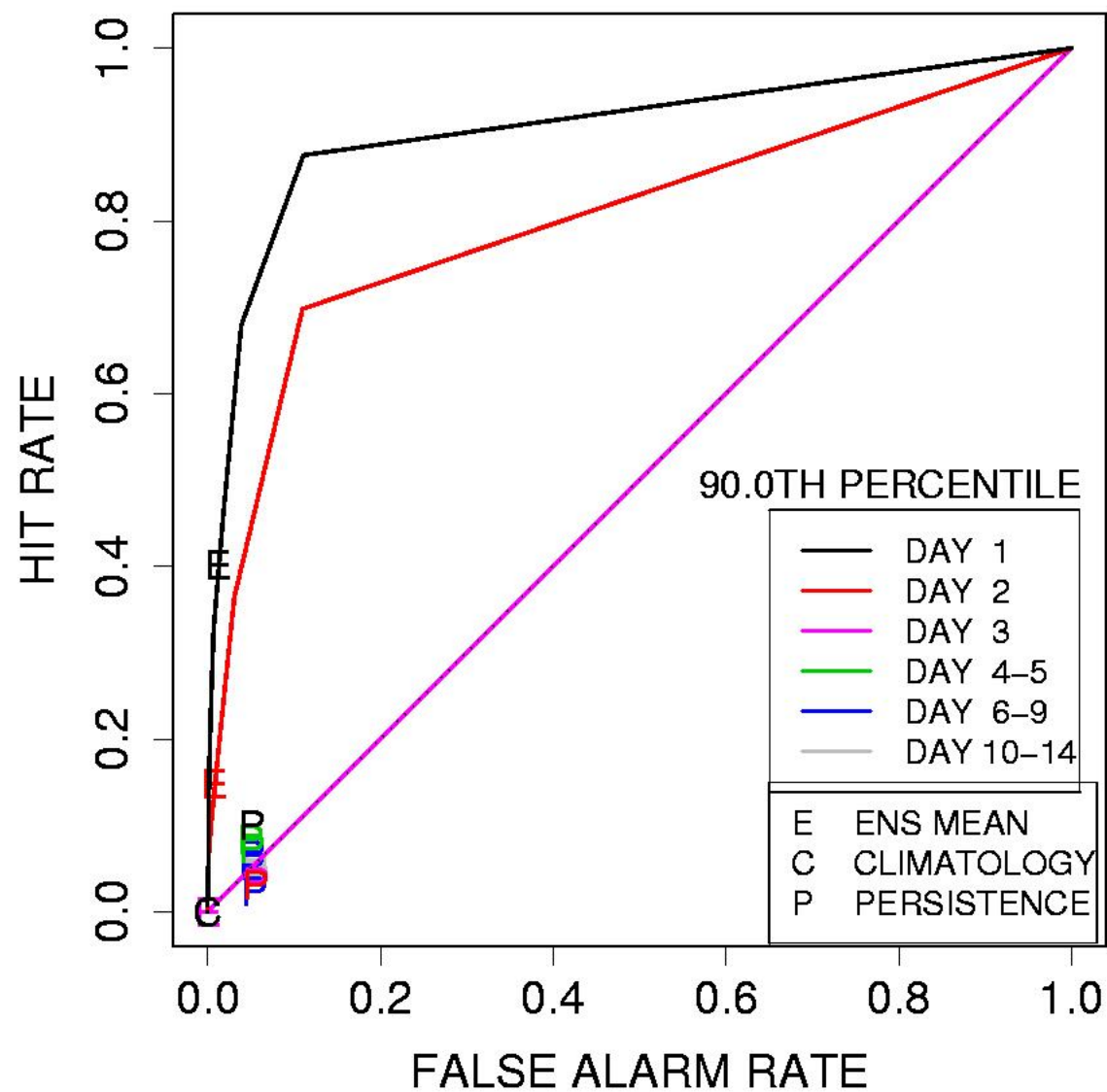
MARFC – ROC, 24-HR PRECIP., AN



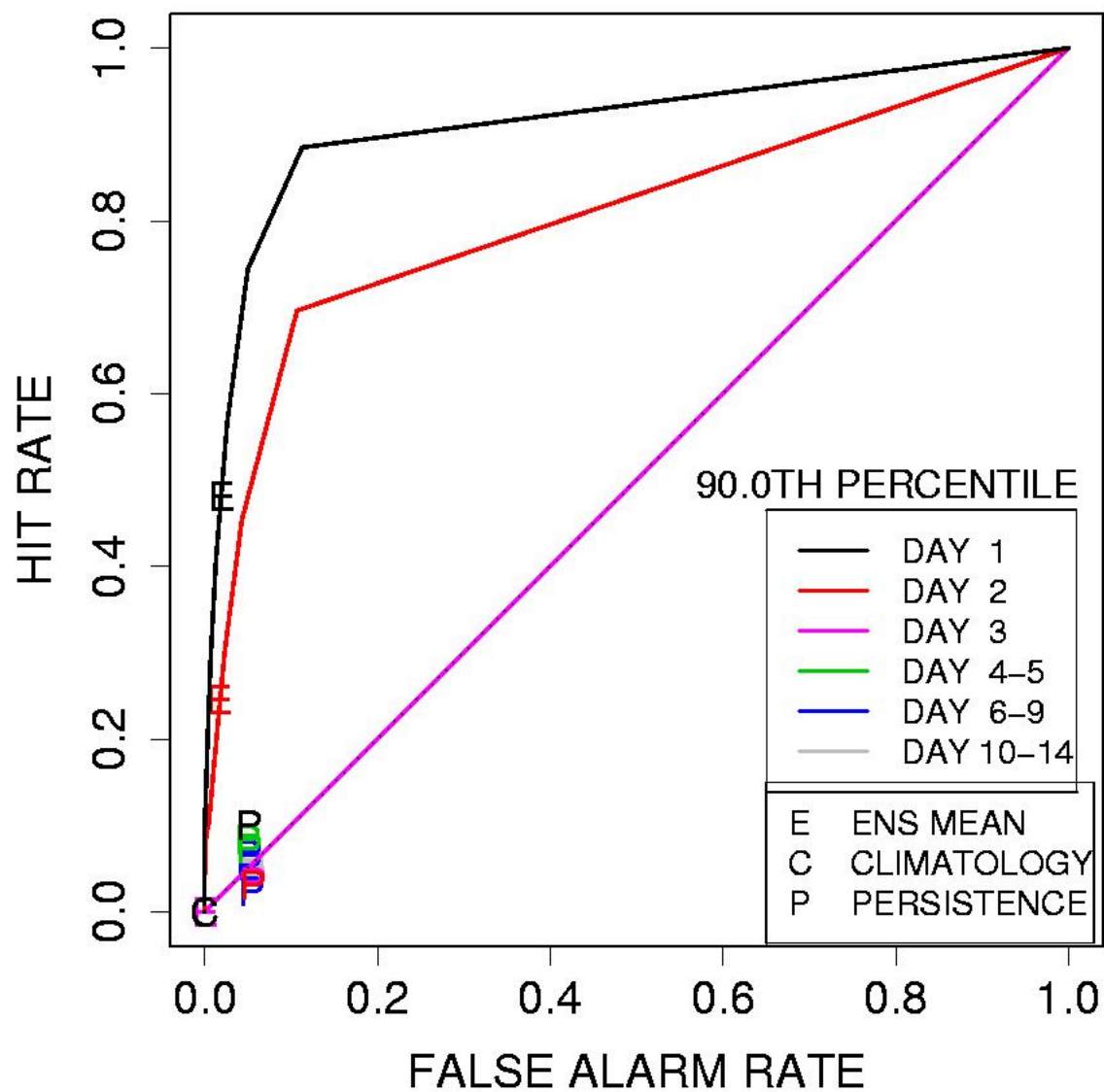
MARFC – ROC, 24-HR PRECIP., AN



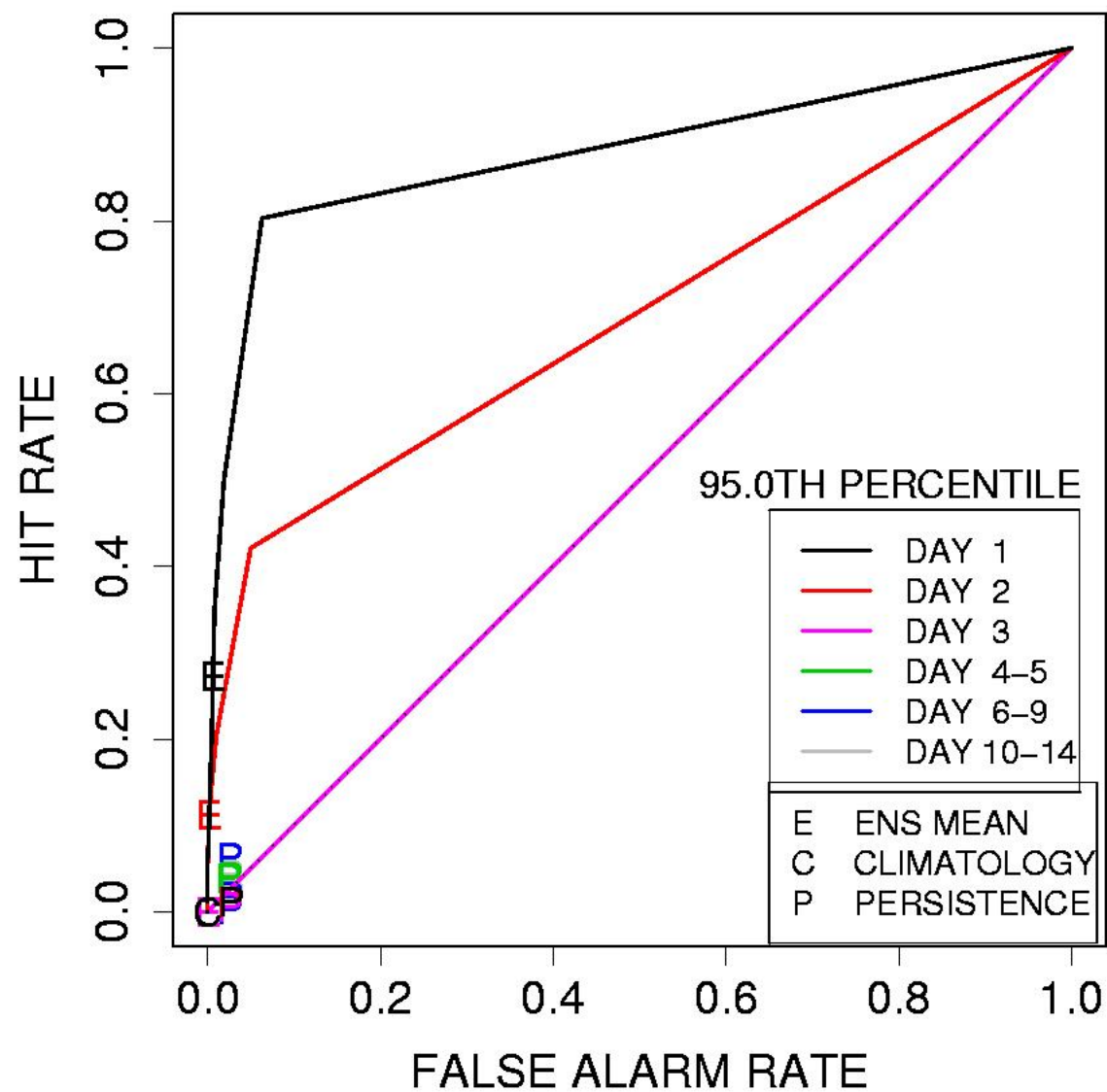
MARFC – ROC, 24-HR PRECIP., AN



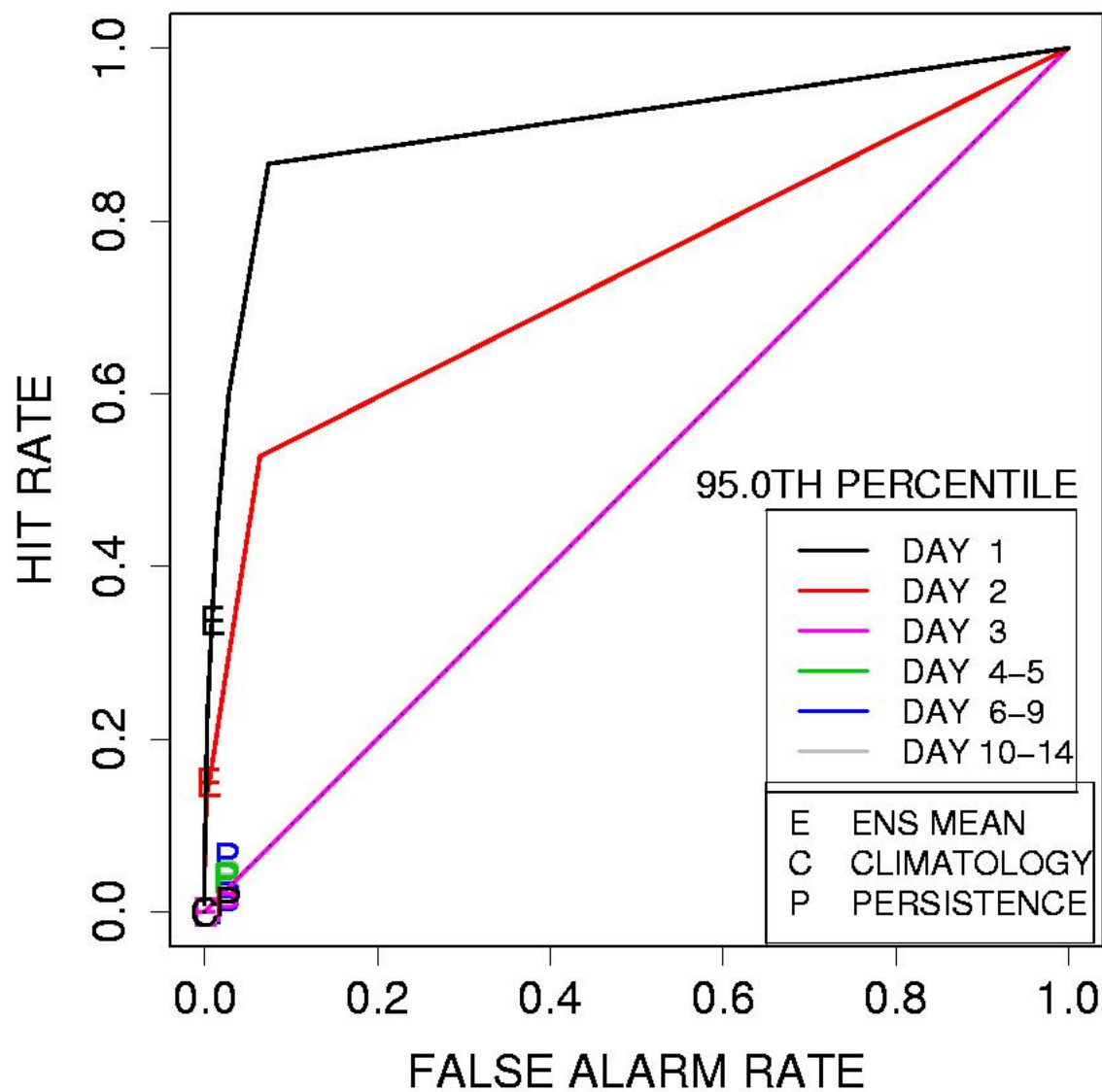
MARFC – ROC, 24-HR PRECIP., AN



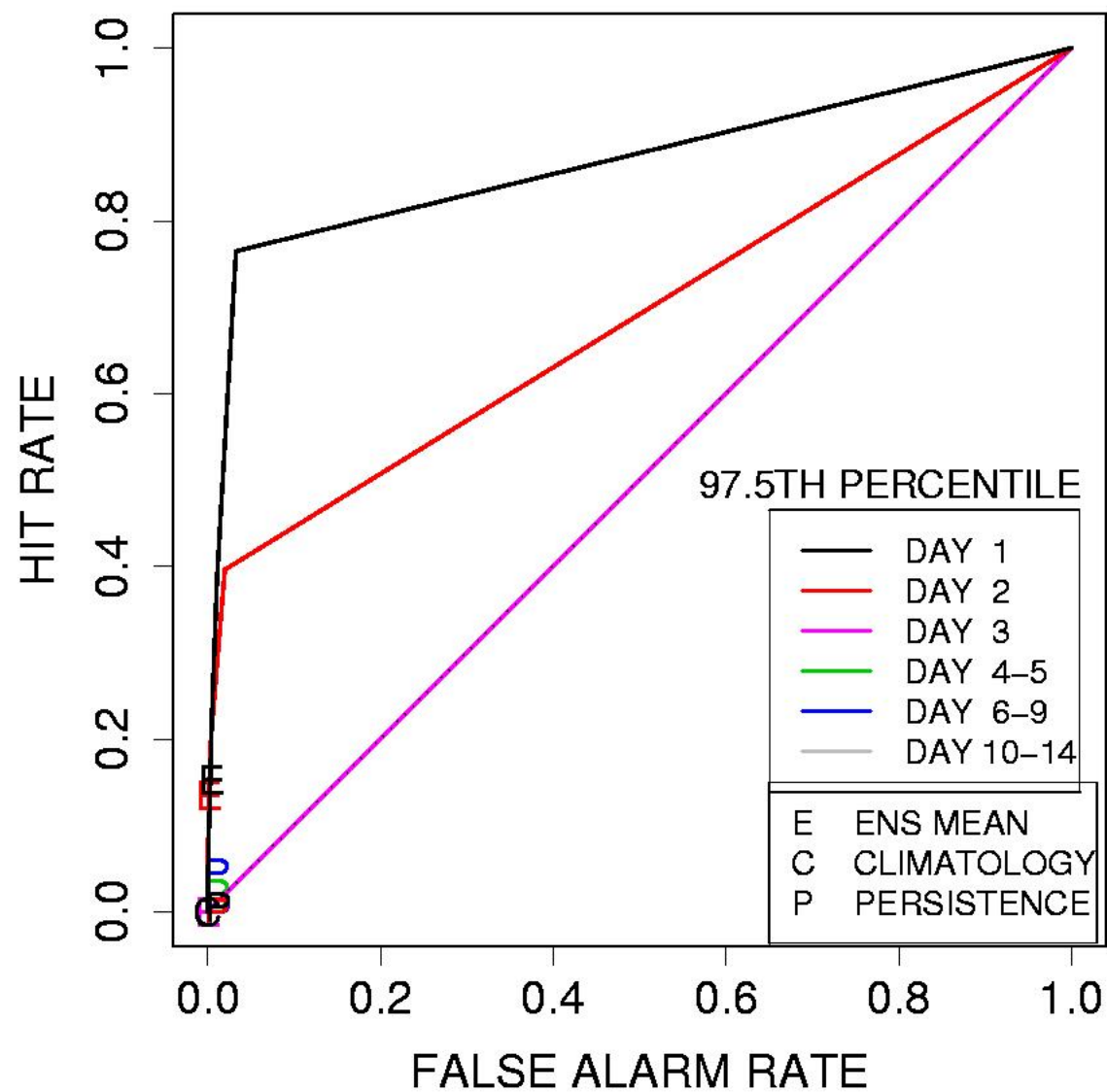
MARFC – ROC, 24-HR PRECIP., AN



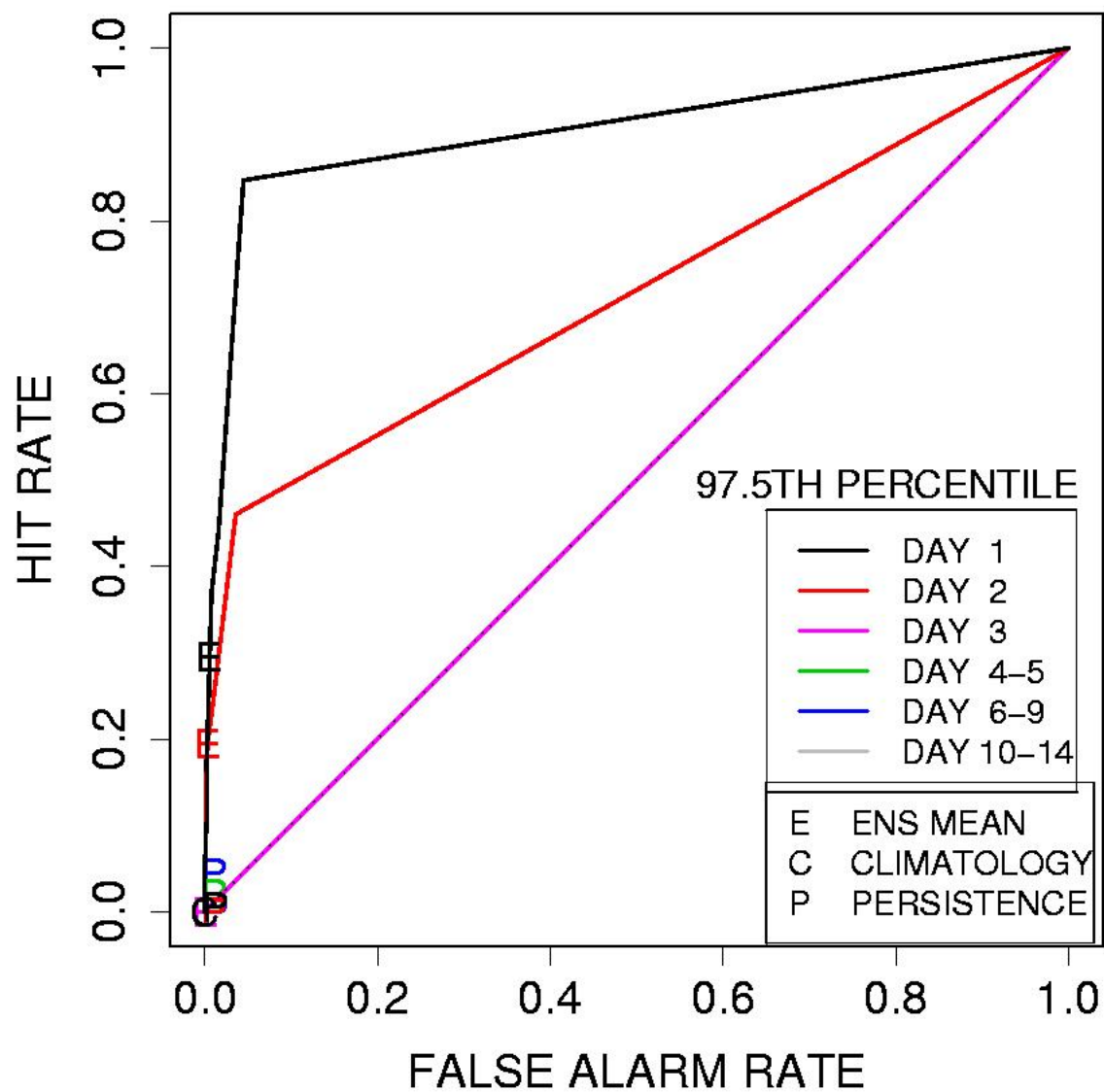
MARFC – ROC, 24-HR PRECIP., AN

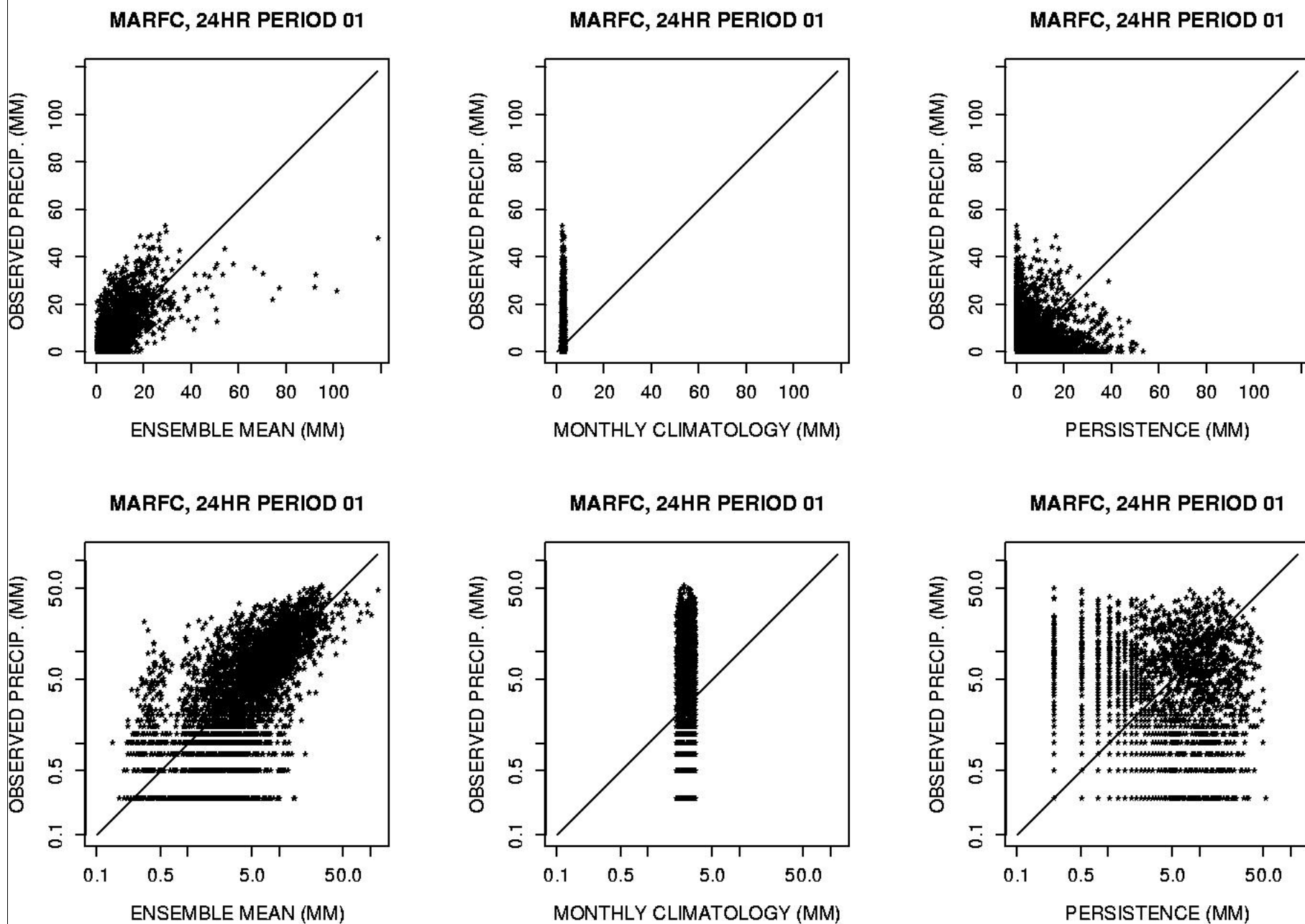


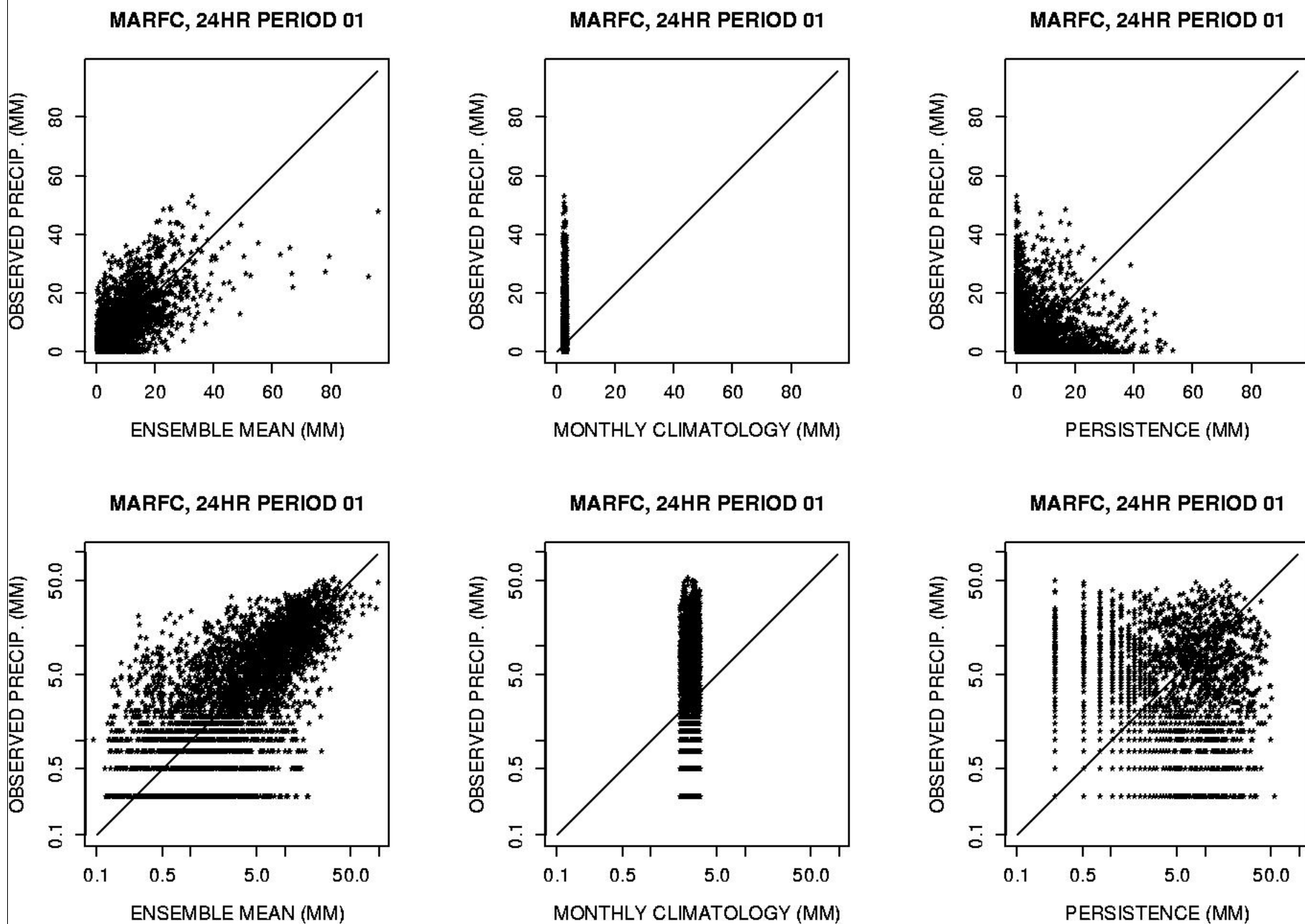
MARFC – ROC, 24-HR PRECIP., AN

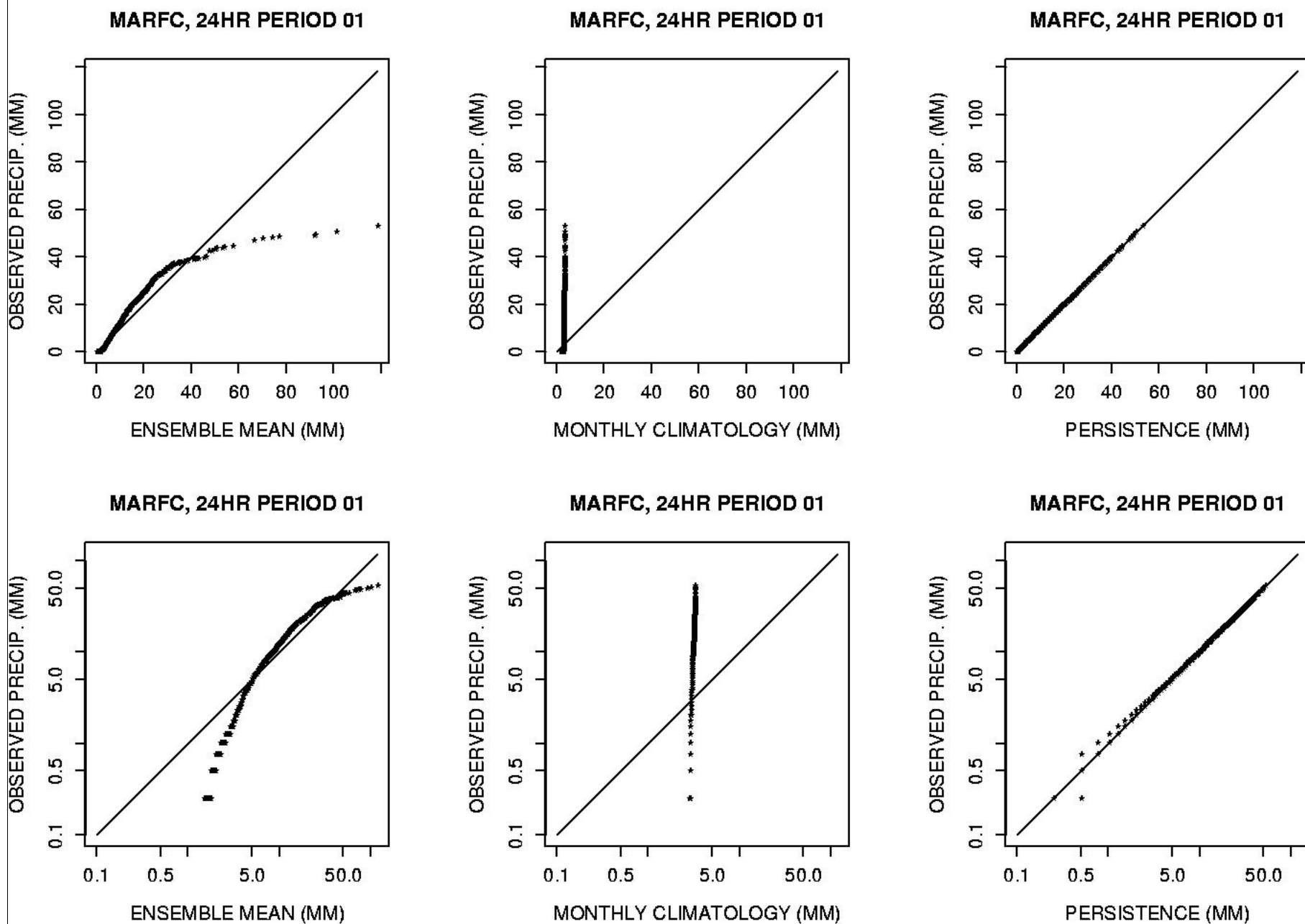


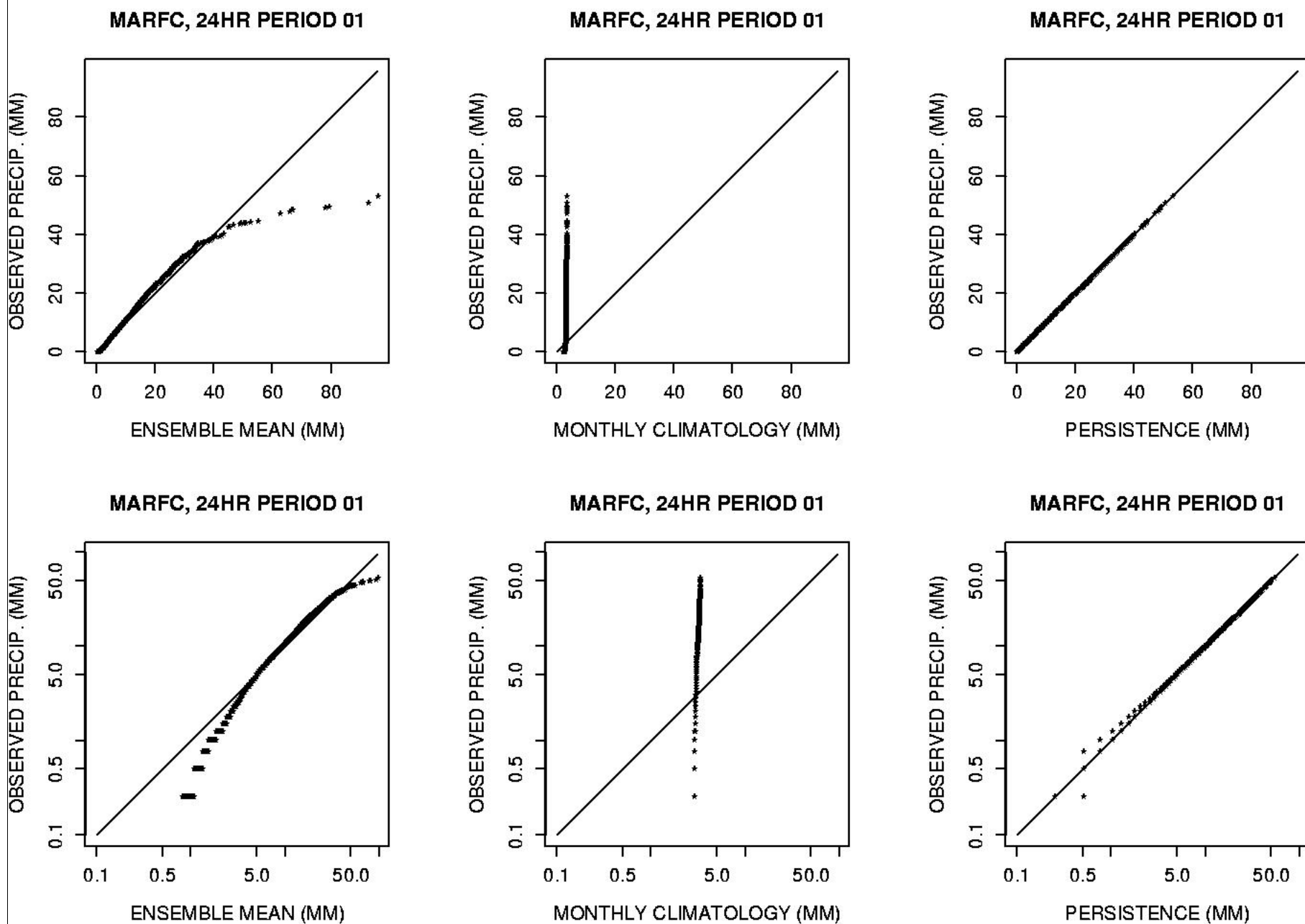
MARFC – ROC, 24-HR PRECIP., AN

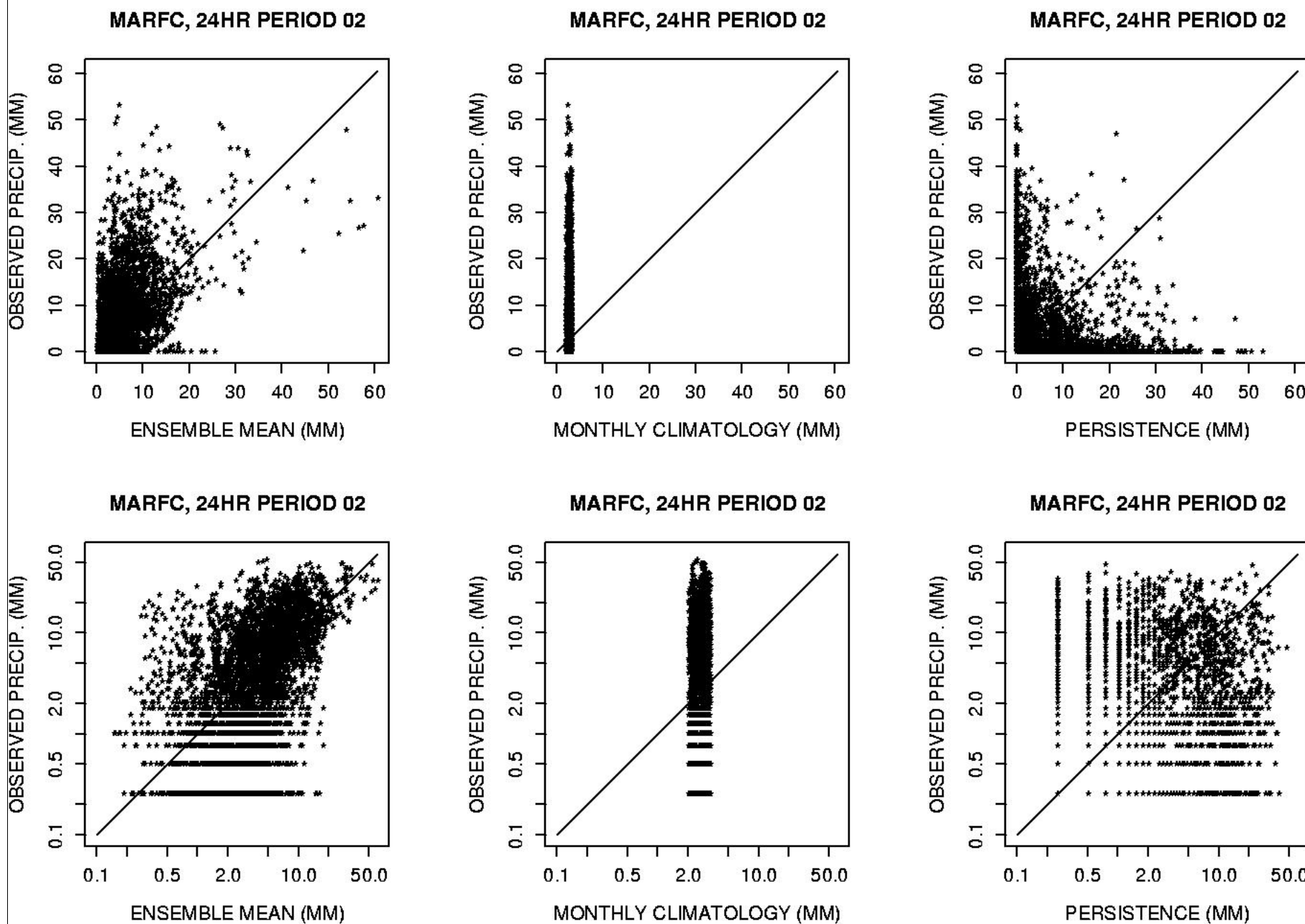


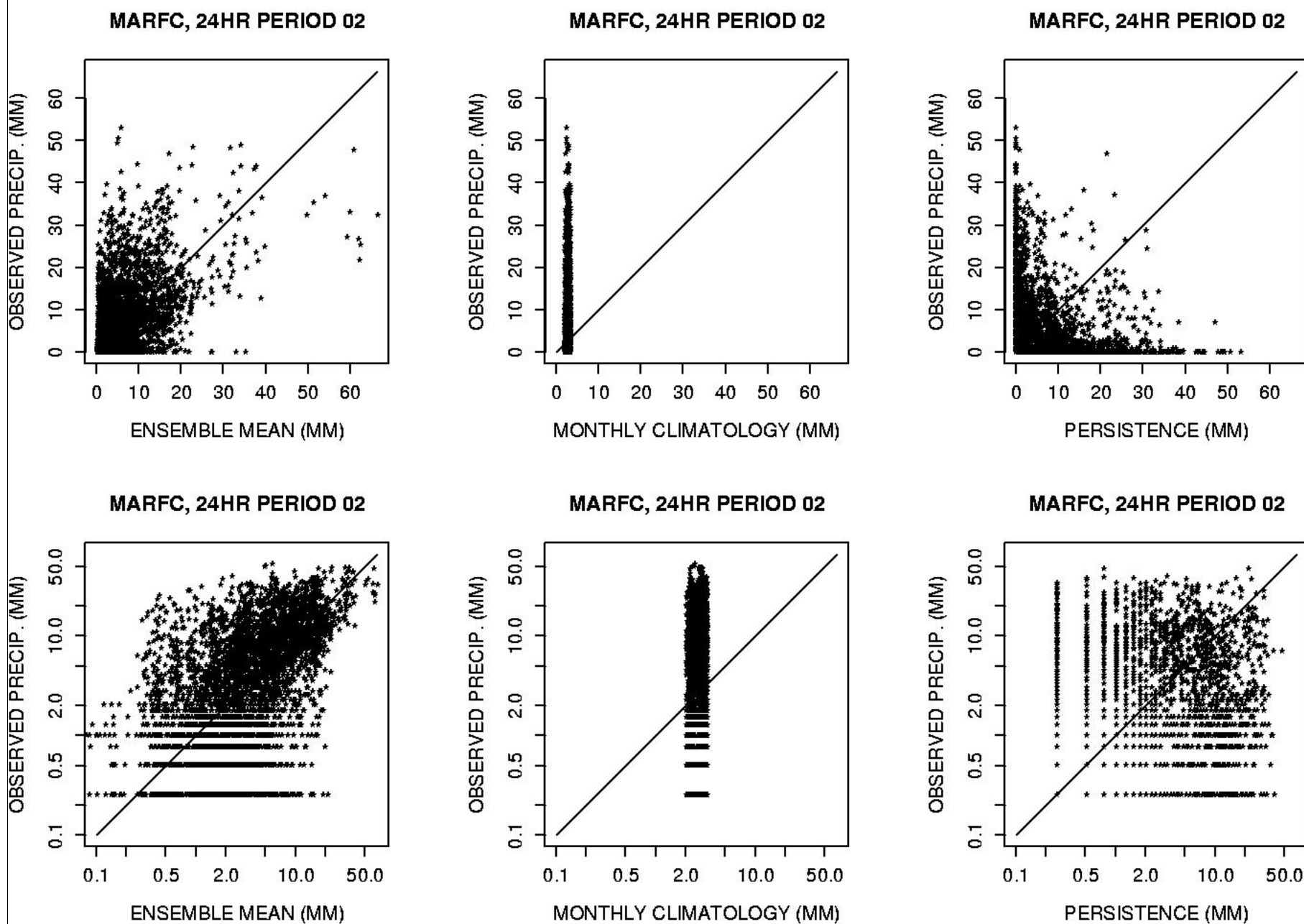


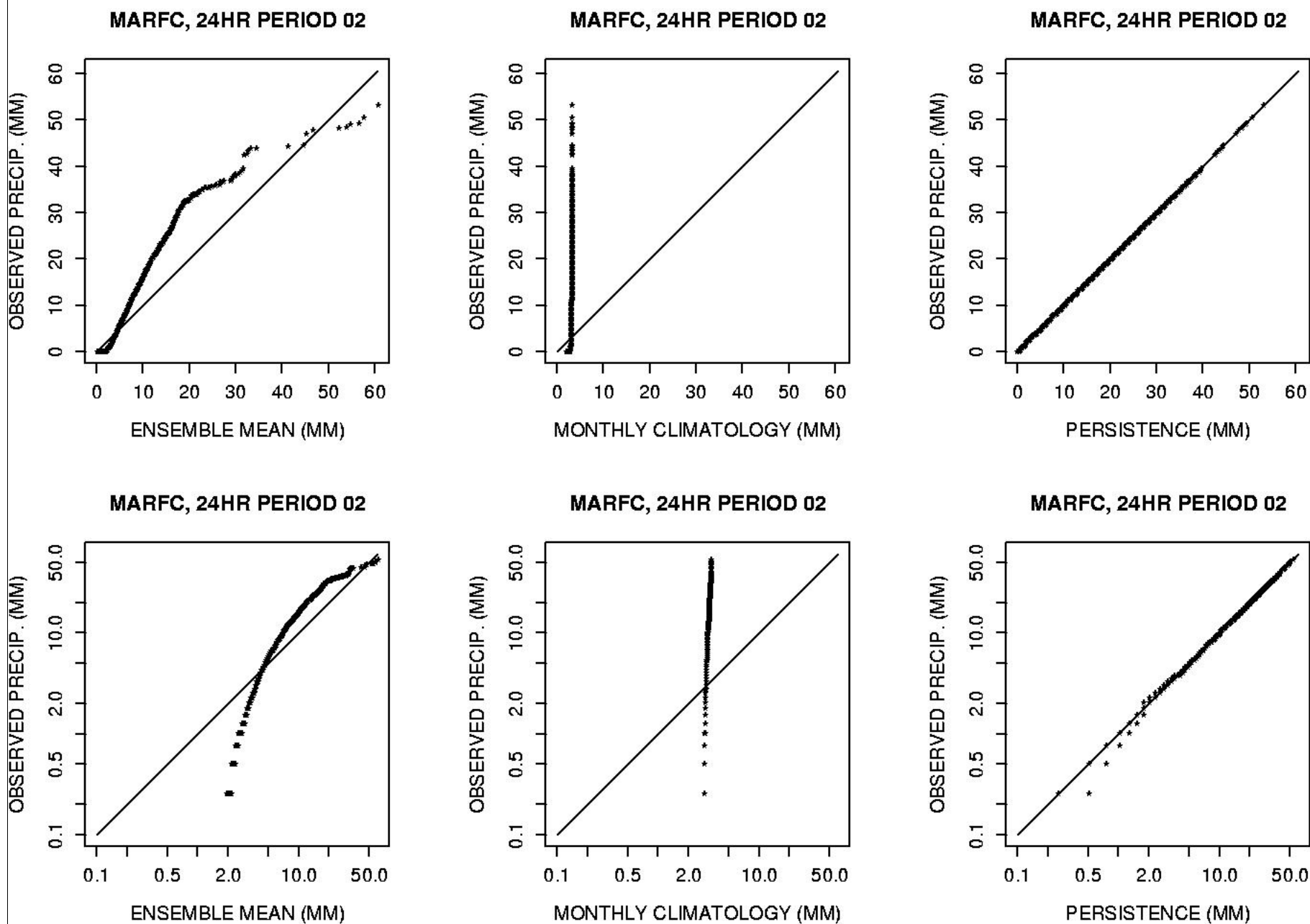


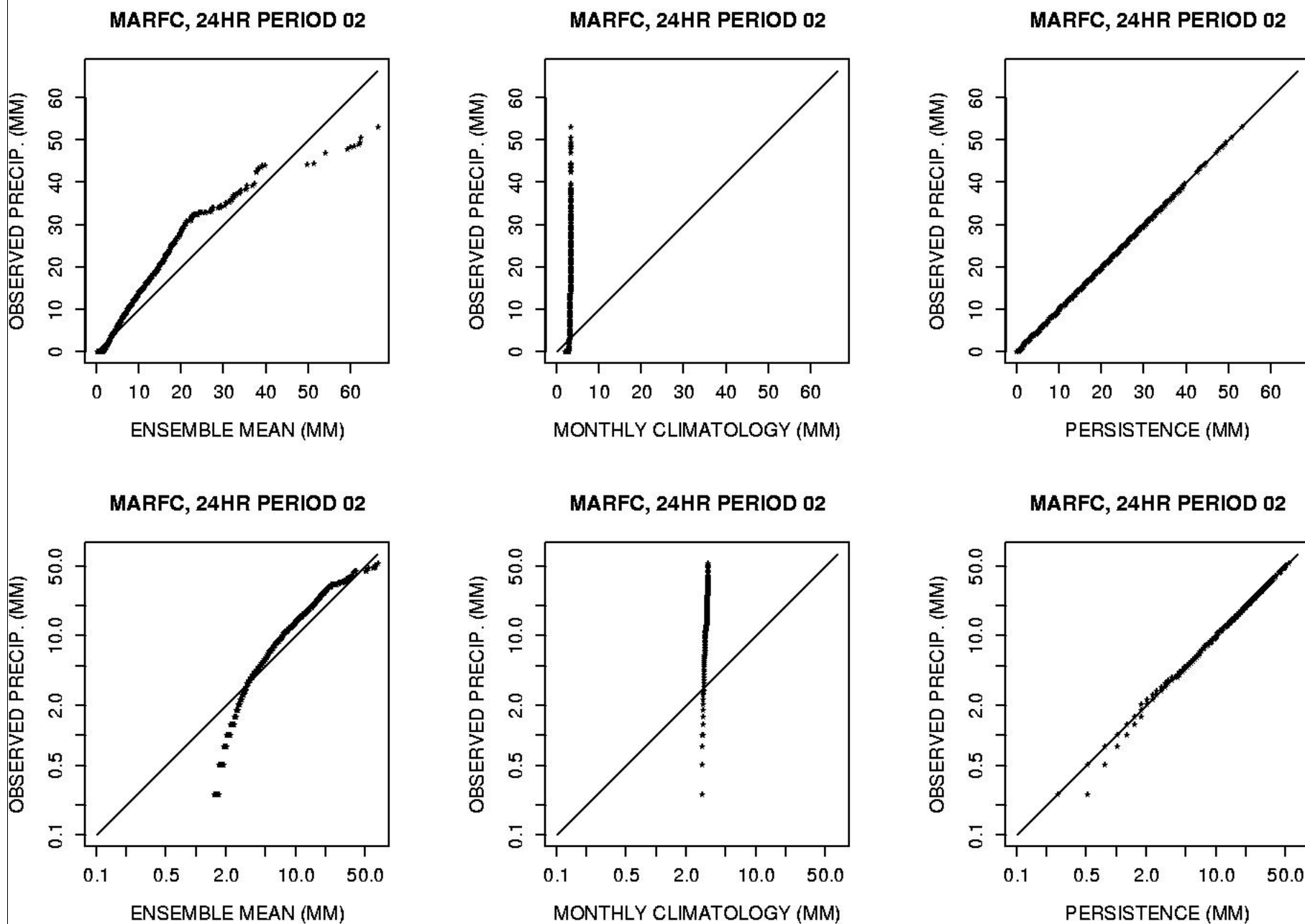














End of slides