

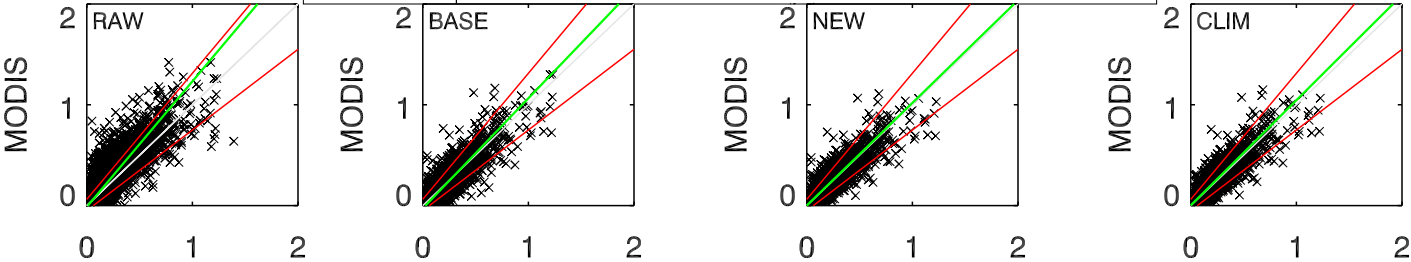
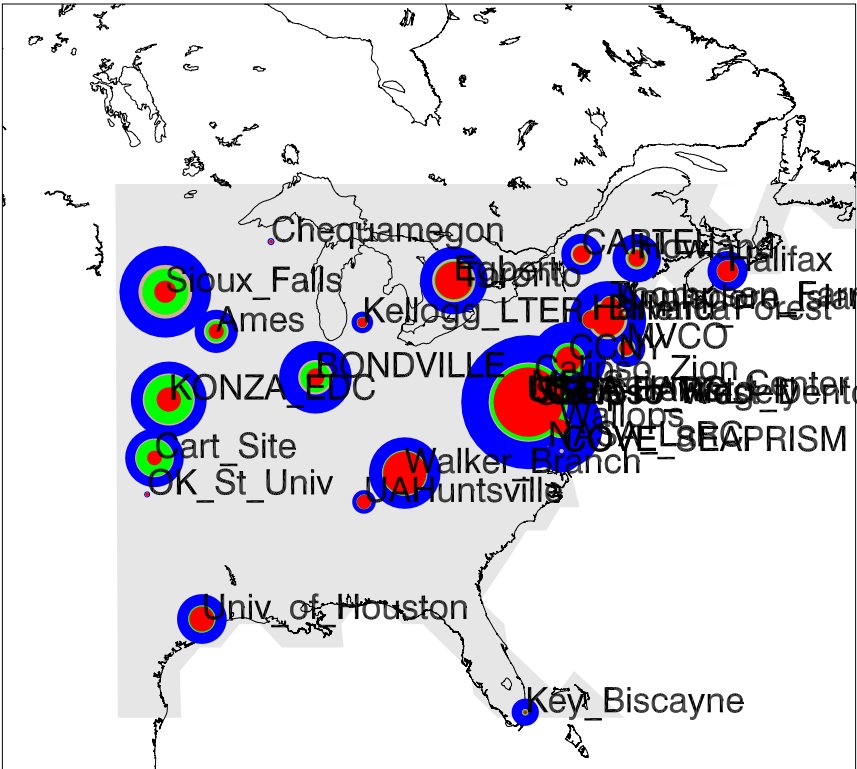
A

40.50N 84.50W E. CONUS

AERONET AOD: N= 9412  $\overline{\tau}$ =0.16 eta=0.64

MODIS  $\tau$

- RAW
- BASE
- NEW
- STRONG



AERONET			AERONET			AERONET			AERONET	
Which		MODIS AOD	MODIS-AERONET			% -/in/+			Regression	
		Mean	>0.2	>1.0	Mean Bias	RMSE	Tolerance		Slope	r <sup>2</sup>
RAW	(N= 8797)	0.193	0.36	0.00	0.027	0.103	8/69/22		1.167	0.59
BASE	(N= 4594)	0.145	0.24	0.00	-0.013	0.074	10/82/ 6		1.011	0.65
NEW	(N= 4206)	0.164	0.27	0.00	0.004	0.067	4/87/ 7		0.995	0.67
CLIM	(N= 4045)	0.173	0.29	0.00	0.010	0.068	3/86/ 9		1.027	0.69
AERONET AOD > 0.2										
RAW	(N= 2267)	0.425	0.91	0.02	0.055	0.146	6/64/29		1.119	0.55
BASE	(N= 1097)	0.358	0.82	0.01	-0.008	0.115	13/75/10		0.995	0.64
NEW	(N= 1032)	0.365	0.88	0.01	-0.002	0.105	9/80/ 9		0.976	0.64
CLIM	(N= 1019)	0.375	0.89	0.01	0.009	0.107	8/78/12		1.006	0.65
	Noise	vs $\tau_A$		vs $\tau_M$		Est.@	Est.@	Est.@	Est.@	Est.@
Which	Floor	Diagnostic		Prognostic		0.1	0.2	0.4	0.6	1.0
RAW	0.084	0.06 +	0.12 $\tau$	0.02 +	0.25 $\tau$	0.08	0.08	0.12	0.17	0.27
BASE	0.056	0.04 +	0.14 $\tau$	0.02 +	0.17 $\tau$	0.06	0.06	0.09	0.12	0.19
NEW	0.048	0.01 +	0.19 $\tau$	0.02 +	0.18 $\tau$	0.05	0.05	0.09	0.12	0.19
CLIM	0.048	0.03 +	0.15 $\tau$	0.02 +	0.17 $\tau$	0.05	0.05	0.09	0.12	0.19