T 40.50N 84.50W E. CONUS

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

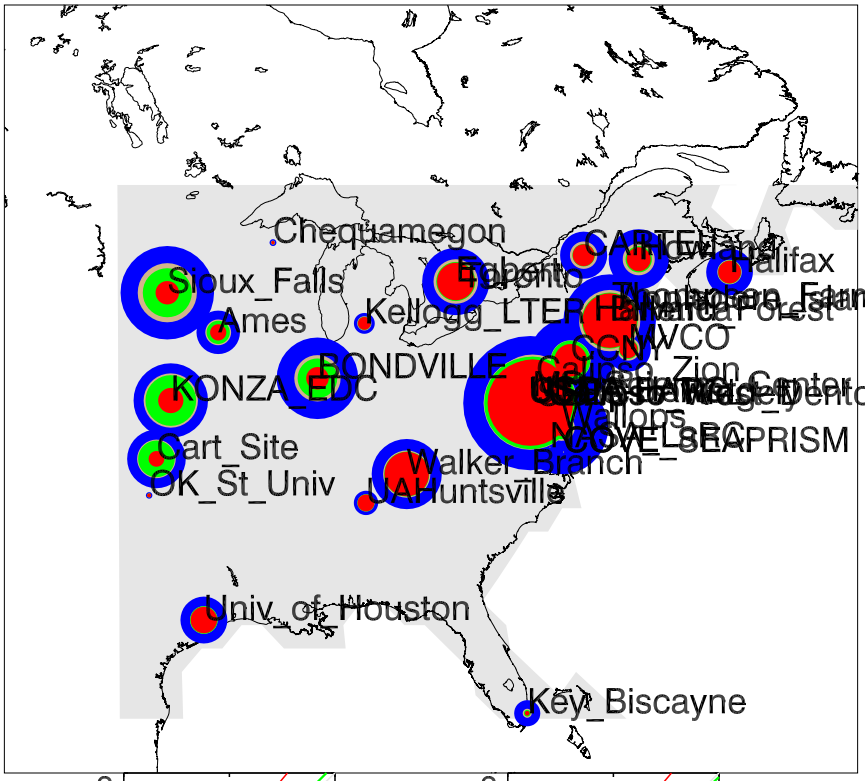
MODIS τ

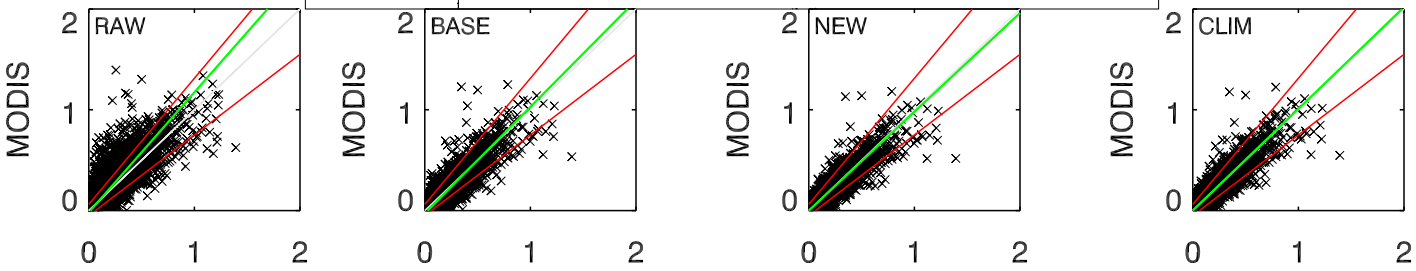
× RAW

× BASE

× NEW

× STRONG





Which		MODIS AOD Mean	>0.2	>1.0	MODIS-AERONET Mean Bias	RMSE	% -/in/+ Tolerance	Regression Slope	r^2
RAW	(N= 9407)	0.172	0.31	0.00	0.013	0.098	11/72/16	1.098	0.54
BASE	(N= 5487)	0.137	0.22	0.00	-0.019	0.075	12/81/ 5	0.973	0.62
NEW	(N= 5057)	0.157	0.26	0.00	-0.003	0.066	5/88/ 6	0.957	0.66
CLIM	(N= 4819)	0.168	0.28	0.00	0.003	0.068	4/88/ 7	0.989	0.67
AERONET AOD > 0.2									
RAW	(N= 2298)	0.397	0.88	0.01	0.028	0.142	9/70/20	1.057	0.51
BASE	(N= 1283)	0.346	0.79	0.01	-0.023	0.121	15/75/ 8	0.958	0.59
NEW	(N= 1234)	0.355	0.85	0.01	-0.017	0.110	11/81/ 7	0.941	0.62
CLIM	(N= 1232)	0.364	0.86	0.01	-0.006	0.111	10/80/ 9	0.971	0.62

Which	Noise Floor	vs τA Diagnostic	vs τM Prognostic	Est.@ 0.1	Est.@ 0.2	Est.@ 0.4	Est.@ 0.6	Est.@ 1.0
RAW	0.079	0.06 + 0.12τ	0.01 + 0.27τ	0.08	0.08	0.12	0.17	0.28
BASE	0.054	0.01 + 0.21τ	0.01 + 0.20τ	0.05	0.05	0.09	0.13	0.21
NEW	0.043	-0.01 + 0.23τ	0.01 + 0.17τ	0.04	0.05	0.08	0.12	0.19
CLIM	0.044	-0.00 + 0.23τ	-0.00 + 0.22τ	0.04	0.04	0.09	0.13	0.22