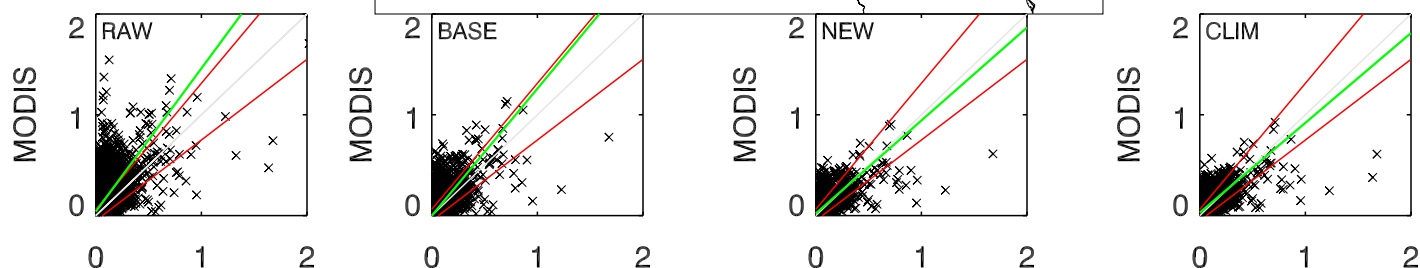
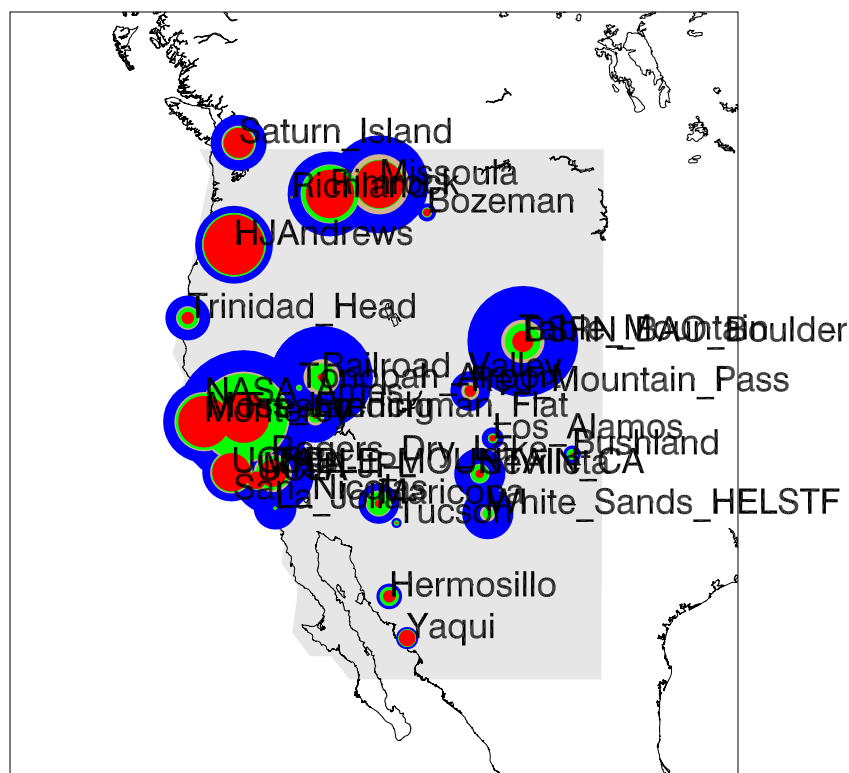


A 38.50N 110.50W W. CONUS

AERONET AOD: N= 8394 $\bar{\tau}$ =0.09 eta=0.57

MODIS τ

x RAW
x BASE
x NEW
x STRONG



Which	AERONET			AERONET			AERONET			AERONET	
		MODIS AOD	MODIS-AERONET			% -/in/+	Regression				
			Mean	>0.2	>1.0		Mean Bias	RMSE	Tolerance	Slope	r ²
RAW	(N= 8568)	0.170	0.32	0.00	0.079	0.159	4/51/44	1.472	0.11		
BASE	(N= 4695)	0.116	0.16	0.00	0.024	0.104	6/69/23	1.238	0.20		
NEW	(N= 4266)	0.109	0.09	0.00	0.014	0.077	4/79/16	0.895	0.25		
CLIM	(N= 4400)	0.115	0.10	0.00	0.020	0.079	3/78/18	0.869	0.25		
AERONET AOD > 0.2											
RAW	(N= 602)	0.338	0.73	0.02	0.022	0.206	19/53/27	0.998	0.20		
BASE	(N= 352)	0.276	0.58	0.01	-0.030	0.181	34/47/18	0.993	0.25		
NEW	(N= 332)	0.238	0.50	0.00	-0.074	0.168	31/61/ 7	0.770	0.25		
CLIM	(N= 355)	0.243	0.53	0.00	-0.069	0.175	30/61/ 7	0.745	0.22		

Which	Noise	vs τ_A		vs τ_M		Est.@	Est.@	Est.@	Est.@	Est.@
	Floor	Diagnostic		Prognostic		0.1	0.2	0.4	0.6	1.0
RAW	0.155	0.03 +	0.34 τ	-0.03 +	0.74 τ	0.15	0.15	0.27	0.41	0.71
BASE	0.095	0.00 +	0.40 τ	0.03 +	0.47 τ	0.10	0.12	0.22	0.31	0.50
NEW	0.063	-0.04 +	0.49 τ	-0.01 +	0.51 τ	0.06	0.09	0.19	0.30	0.50
CLIM	0.065	-0.10 +	0.69 τ	0.01 +	0.44 τ	0.06	0.10	0.18	0.27	0.45