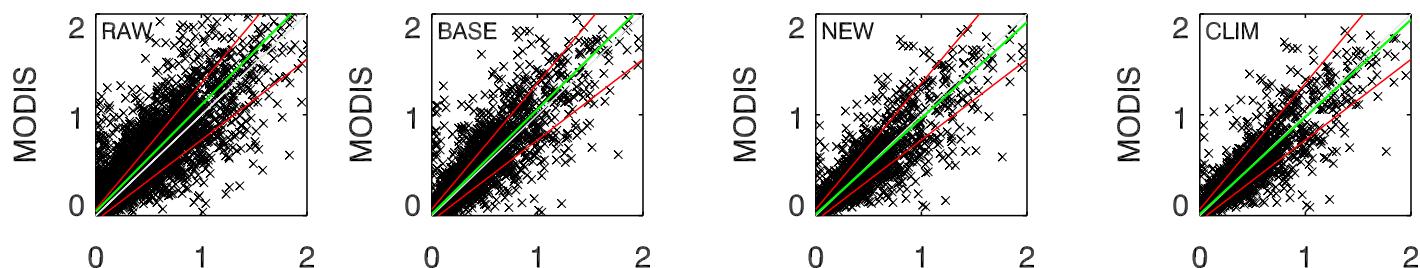
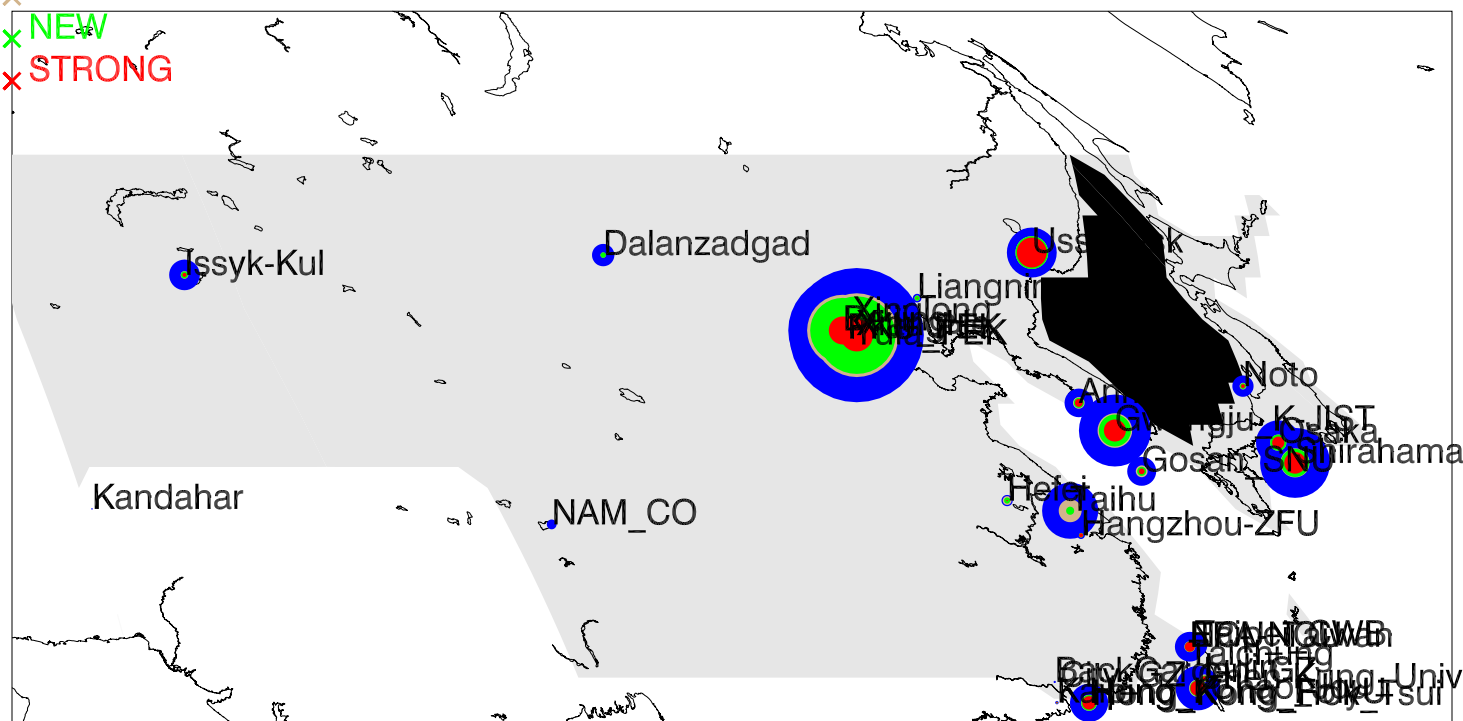


A 38.50N 103.50E East Asia Mid-L

AERONET AOD: N= 5386 $\bar{\tau}$ =0.43 eta=0.60

MODIS τ

× 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 ²
RAW	(N= 4981)	0.511	0.76	0.11	0.066	0.251	9/55/34	1.009	0.51
BASE	(N= 2376)	0.490	0.71	0.11	0.033	0.242	14/59/25	0.999	0.51
NEW	(N= 2131)	0.435	0.68	0.09	-0.007	0.212	13/70/16	0.922	0.57
CLIM	(N= 2026)	0.441	0.69	0.09	-0.001	0.203	11/71/16	0.931	0.61
AERONET AOD > 0.2									
RAW	(N= 3352)	0.660	0.94	0.17	0.057	0.281	13/55/30	0.996	0.49
BASE	(N= 1658)	0.628	0.90	0.16	0.026	0.267	17/57/25	0.992	0.52
NEW	(N= 1459)	0.565	0.90	0.12	-0.025	0.247	19/65/15	0.918	0.56
CLIM	(N= 1386)	0.571	0.91	0.13	-0.018	0.235	17/67/15	0.926	0.60

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	0.174	0.05 +	0.23 τ	0.04 +	0.25 τ	0.17	0.17	0.17	0.19	0.29
BASE	0.168	0.05 +	0.22 τ	0.03 +	0.24 τ	0.17	0.17	0.17	0.17	0.27
NEW	0.100	0.01 +	0.26 τ	0.04 +	0.19 τ	0.10	0.10	0.12	0.16	0.24
CLIM	0.101	0.01 +	0.25 τ	0.03 +	0.20 τ	0.10	0.10	0.11	0.15	0.23