

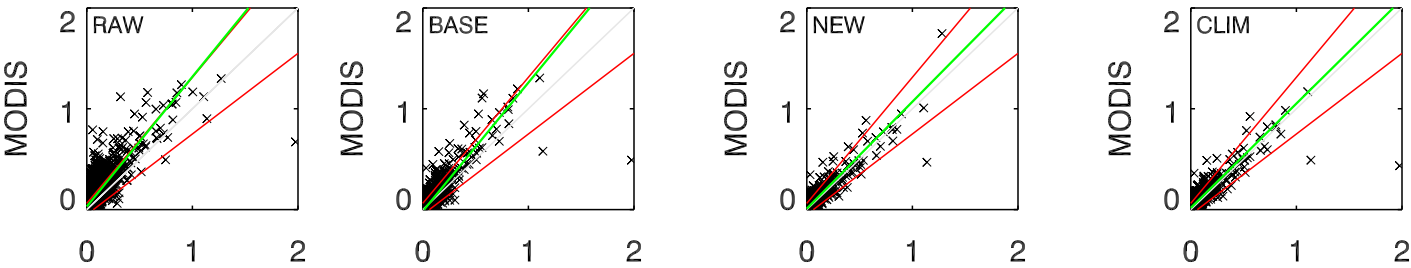
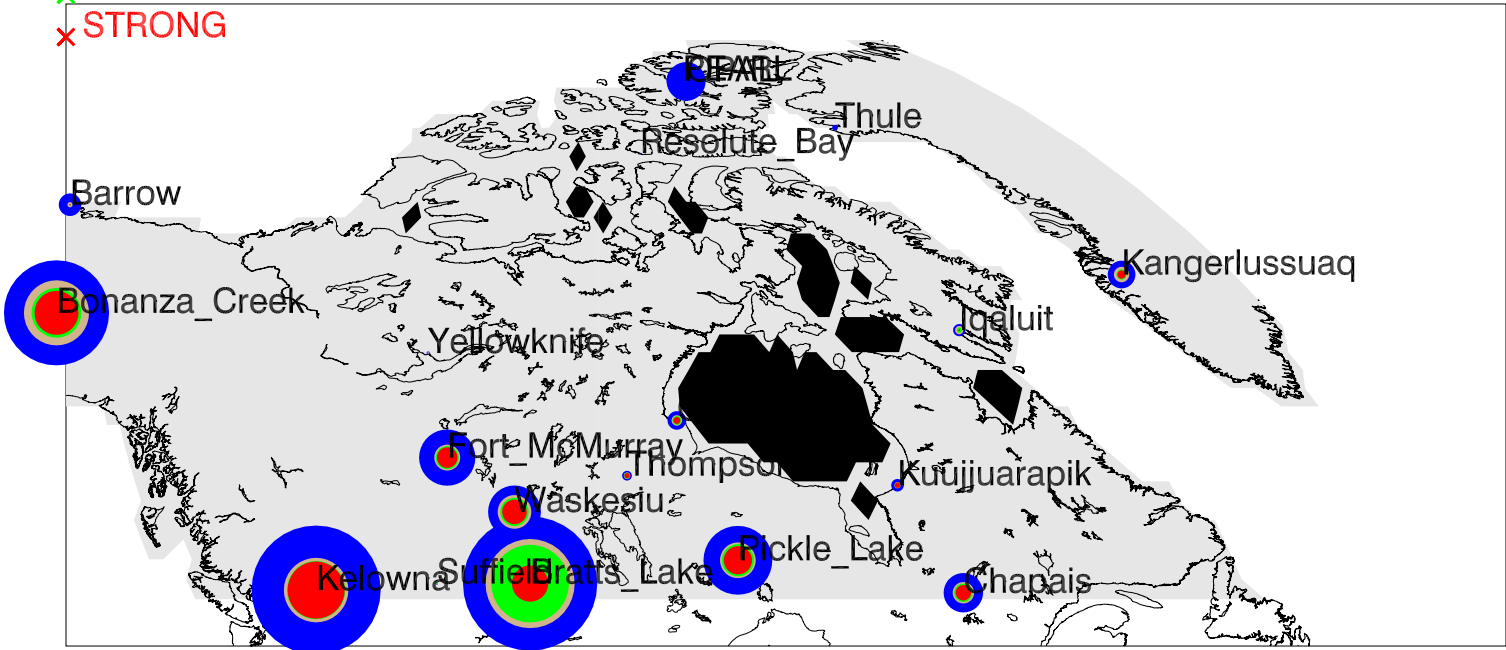
A

66.50N 90.50W N. American Bo

AERONET AOD: N= 2853 $\overline{\tau}$ =0.09 eta=0.63

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= 2706)	0.149	0.23	0.01	0.057	0.127	1/59/38	1.107	0.47	
BASE	(N= 1370)	0.108	0.12	0.01	0.011	0.086	2/84/13	1.093	0.52	
NEW	(N= 1141)	0.112	0.09	0.00	0.016	0.057	1/84/13	0.989	0.70	
CLIM	(N= 1194)	0.120	0.10	0.00	0.021	0.079	0/84/14	0.864	0.51	
AERONET AOD > 0.2										
RAW	(N= 191)	0.492	0.92	0.08	0.104	0.302	5/51/43	0.958	0.36	
BASE	(N= 100)	0.471	0.87	0.07	0.077	0.248	8/58/33	1.042	0.41	
NEW	(N= 88)	0.384	0.82	0.02	0.001	0.127	9/79/11	0.964	0.68	
CLIM	(N= 90)	0.396	0.83	0.02	-0.004	0.232	7/80/12	0.829	0.42	

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	0.102	0.03	+ 0.35 τ	0.07	+ 0.29 τ	0.10	0.13	0.19	0.25	0.37
BASE	0.056	0.01	+ 0.34 τ	0.03	+ 0.28 τ	0.06	0.08	0.14	0.20	0.31
NEW	0.046	*****	+ ***** τ	0.03	+ 0.15 τ	0.05	0.06	0.09	0.12	0.18
CLIM	0.049	*****	+ ***** τ	0.06	+ 0.11 τ	0.07	0.08	0.10	0.12	0.16