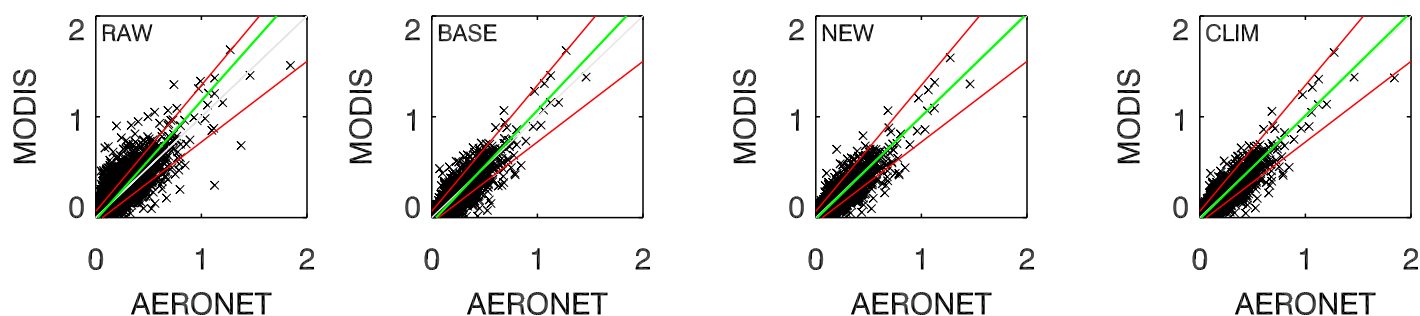
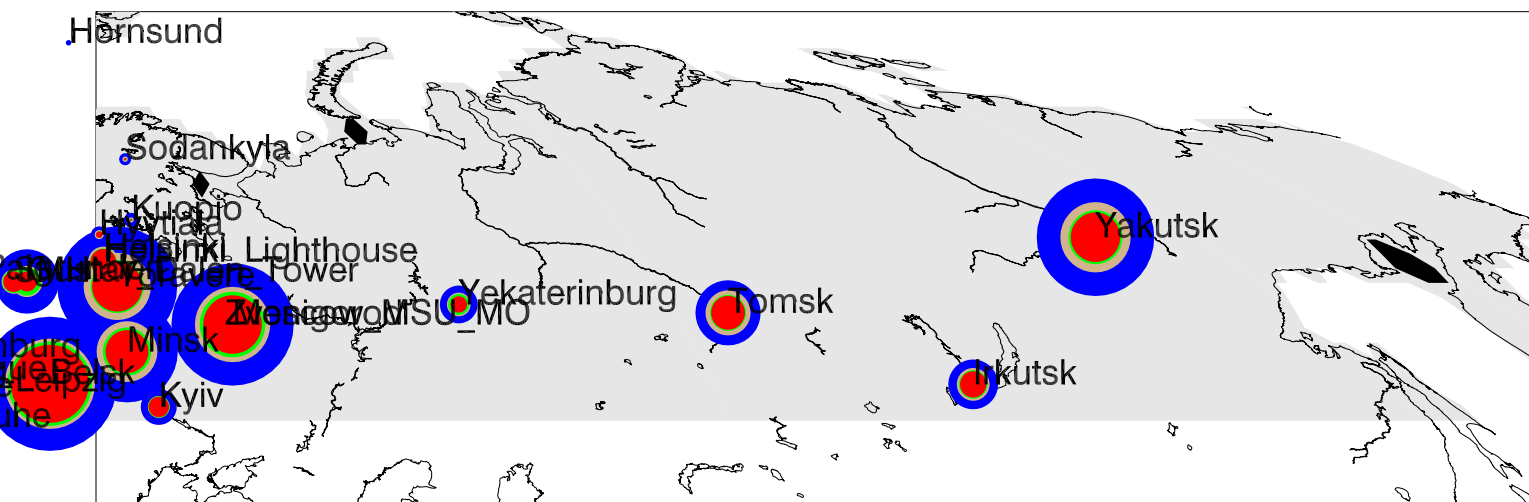


T 61.50N 88.50E Eurasian Boreal

AERONET AOD: N= 6651 $\bar{\tau}$ =0.18 eta=0.63

MODIS τ

x RAW
x BASE
x NEW
x STRONG



Which	AERONET	MODIS AOD			MODIS-AERONET		% -/in/+ Tolerance	Regression	
		Mean	>0.2	>1.0	Mean Bias	RMSE		Slope	r ²
RAW	(N= 6650)	0.186	0.35	0.00	0.009	0.092	7/76/15	1.087	0.48
BASE	(N= 4054)	0.161	0.28	0.00	-0.025	0.074	11/84/ 3	0.984	0.63
NEW	(N= 3637)	0.174	0.30	0.00	-0.011	0.067	6/89/ 4	0.966	0.63
CLIM	(N= 3732)	0.178	0.31	0.00	-0.009	0.066	5/89/ 4	0.977	0.69
AERONET AOD > 0.2									
RAW	(N= 2033)	0.337	0.82	0.01	0.006	0.121	10/75/14	1.041	0.51
BASE	(N= 1376)	0.299	0.73	0.01	-0.030	0.103	15/78/ 5	0.971	0.65
NEW	(N= 1242)	0.298	0.76	0.01	-0.029	0.096	13/81/ 4	0.951	0.64
CLIM	(N= 1272)	0.306	0.77	0.01	-0.025	0.095	13/82/ 4	0.962	0.70

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	0.076	0.02	+ 0.21 τ	0.01	+ 0.26 τ	0.08	0.08	0.11	0.16	0.27
BASE	0.053	0.03	+ 0.14 τ	0.02	+ 0.13 τ	0.05	0.05	0.08	0.10	0.15
NEW	0.045	0.01	+ 0.19 τ	0.02	+ 0.15 τ	0.04	0.05	0.08	0.10	0.16
CLIM	0.043	0.01	+ 0.17 τ	0.01	+ 0.15 τ	0.04	0.04	0.07	0.10	0.16