

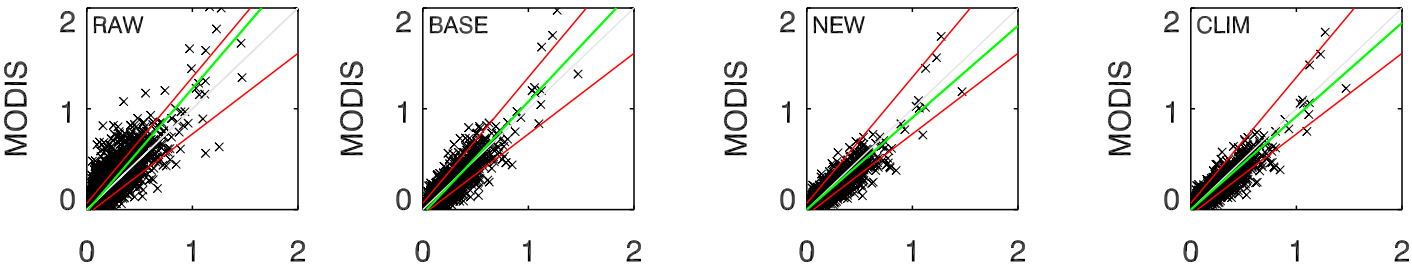
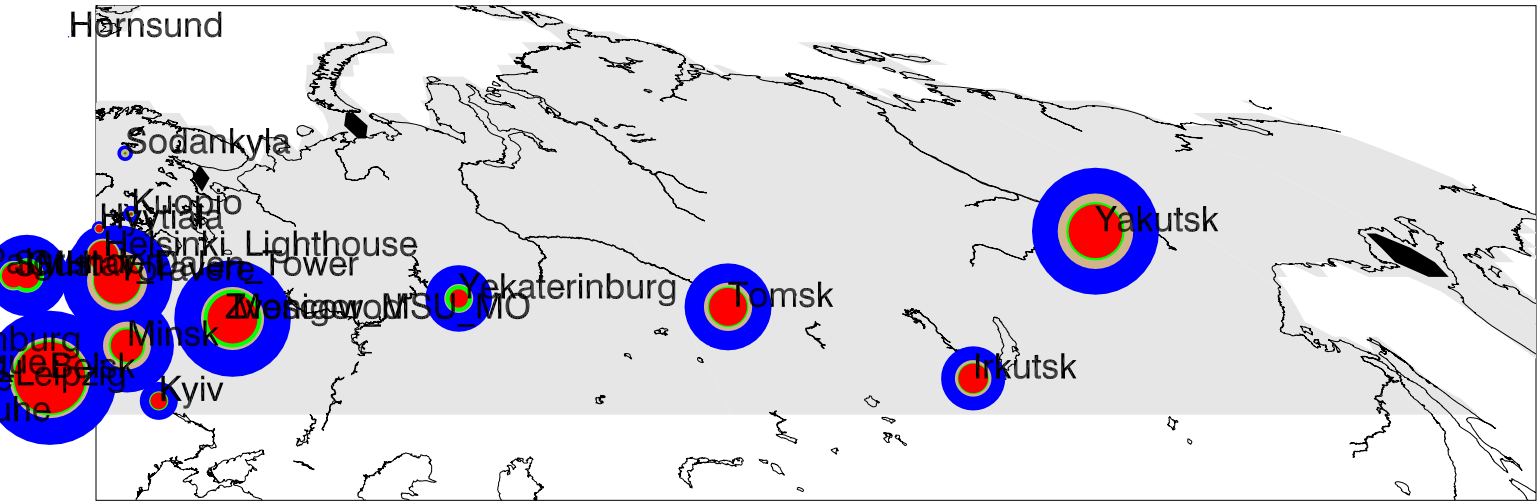
A

61.50N 88.50E Eurasian Boreal

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

MODIS τ

- RAW
- BASE
- NEW
- STRONG



Which		MODIS AOD			MODIS-AERONET		% -/in/+	Regression	
		Mean	>0.2	>1.0	Mean Bias	RMSE		Slope	r ²
RAW	(N= 5806)	0.201	0.40	0.00	0.022	0.098	6/73/20	1.126	0.48
BASE	(N= 3261)	0.165	0.29	0.00	-0.021	0.072	10/85/ 4	0.989	0.66
NEW	(N= 2969)	0.168	0.28	0.00	-0.016	0.065	6/90/ 3	0.886	0.66
CLIM	(N= 3041)	0.171	0.29	0.00	-0.015	0.063	6/90/ 3	0.897	0.69
AERONET AOD > 0.2									
RAW	(N= 1828)	0.352	0.85	0.01	0.021	0.128	8/72/18	1.072	0.49
BASE	(N= 1092)	0.309	0.74	0.01	-0.023	0.102	12/79/ 7	0.976	0.66
NEW	(N= 986)	0.283	0.72	0.01	-0.047	0.097	14/83/ 2	0.871	0.65
CLIM	(N= 1022)	0.288	0.74	0.01	-0.043	0.094	13/83/ 2	0.884	0.68

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	0.081	0.01	+ 0.25 τ	0.01	+ 0.27 τ	0.08	0.08	0.12	0.17	0.28
BASE	0.051	0.02	+ 0.17 τ	0.02	+ 0.13 τ	0.05	0.05	0.08	0.10	0.16
NEW	0.040	-0.01	+ 0.25 τ	0.03	+ 0.11 τ	0.04	0.05	0.08	0.10	0.14
CLIM	0.039	0.00	+ 0.20 τ	0.03	+ 0.09 τ	0.04	0.05	0.07	0.09	0.13