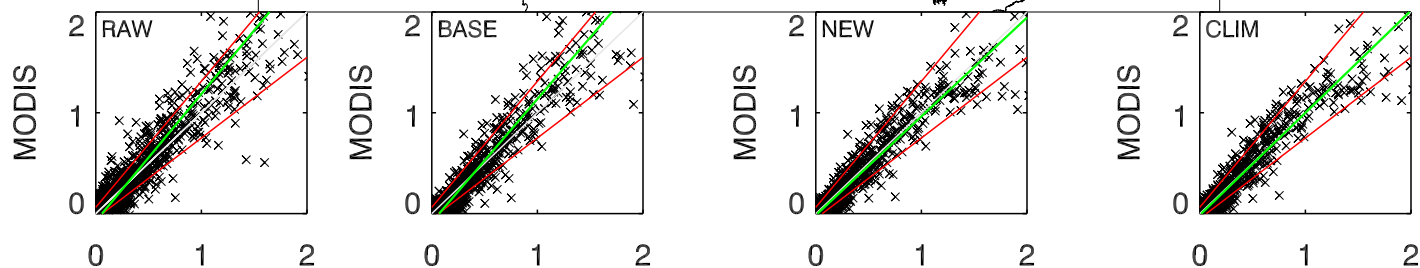
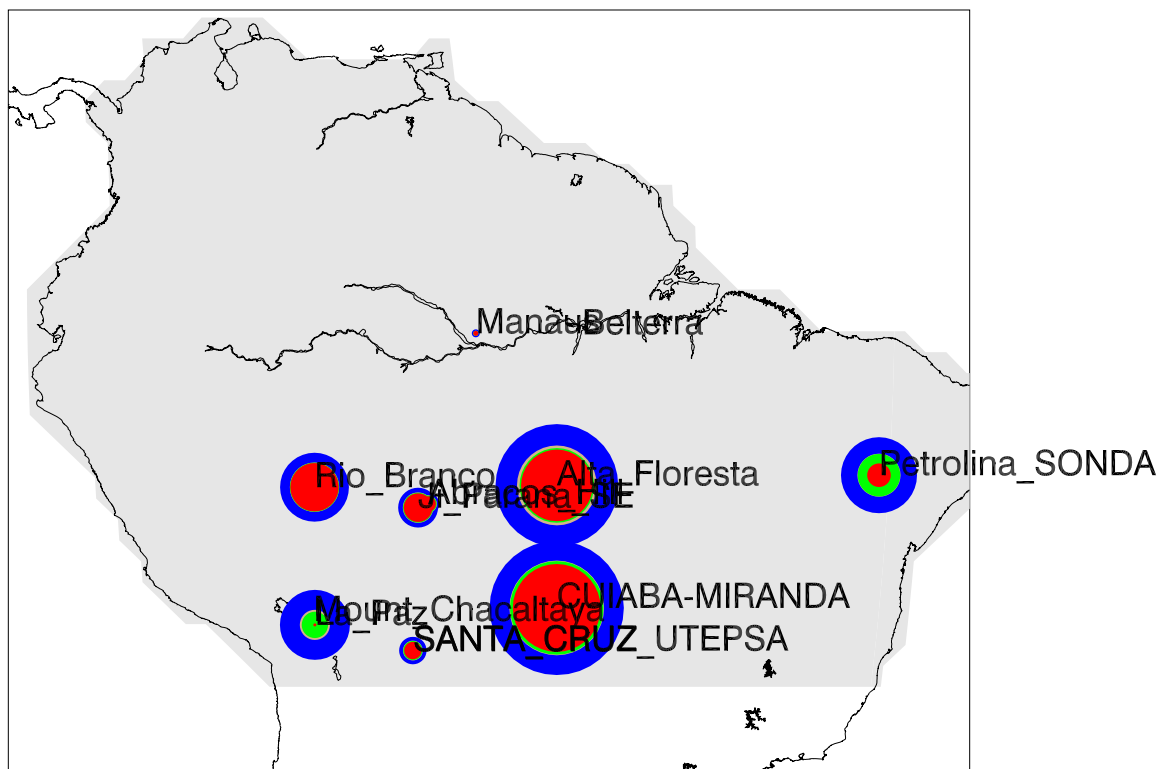


T 6.50S 60.50W South America

AERONET AOD: N= 2172 $\bar{\tau}$ =0.29 eta=0.59

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= 2168)	0.286	0.30	0.07	-0.000	0.205	25/62/11	1.013	0.75	
BASE	(N= 1400)	0.309	0.30	0.09	-0.014	0.212	26/65/ 7	0.988	0.78	
NEW	(N= 1350)	0.284	0.32	0.08	-0.022	0.149	12/81/ 6	0.956	0.82	
CLIM	(N= 1317)	0.279	0.31	0.07	-0.011	0.138	10/82/ 7	0.987	0.82	
AERONET AOD > 0.2										
RAW	(N= 698)	0.749	0.83	0.23	0.069	0.342	13/65/20	1.007	0.72	
BASE	(N= 520)	0.740	0.79	0.24	0.043	0.337	19/62/17	0.987	0.77	
NEW	(N= 491)	0.644	0.83	0.22	-0.022	0.238	15/71/13	0.955	0.80	
CLIM	(N= 461)	0.639	0.84	0.21	-0.001	0.225	13/71/14	0.985	0.81	

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	0.079	0.00 +	0.27 τ		0.03 +	0.17 τ	0.08	0.08	0.10	0.13	0.20
BASE	0.068	0.00 +	0.27 τ		0.03 +	0.14 τ	0.07	0.07	0.09	0.11	0.17
NEW	0.050	0.04 +	0.13 τ		0.02 +	0.16 τ	0.05	0.05	0.08	0.11	0.17
CLIM	0.047	0.02 +	0.20 τ		0.02 +	0.16 τ	0.05	0.05	0.08	0.11	0.18