

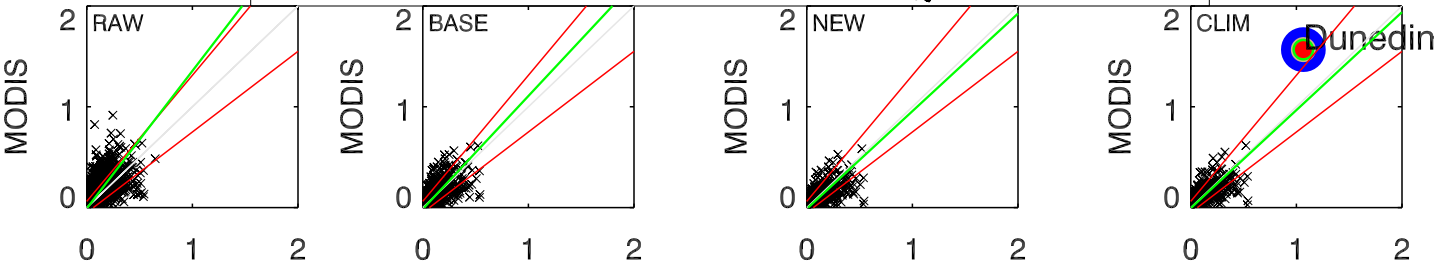
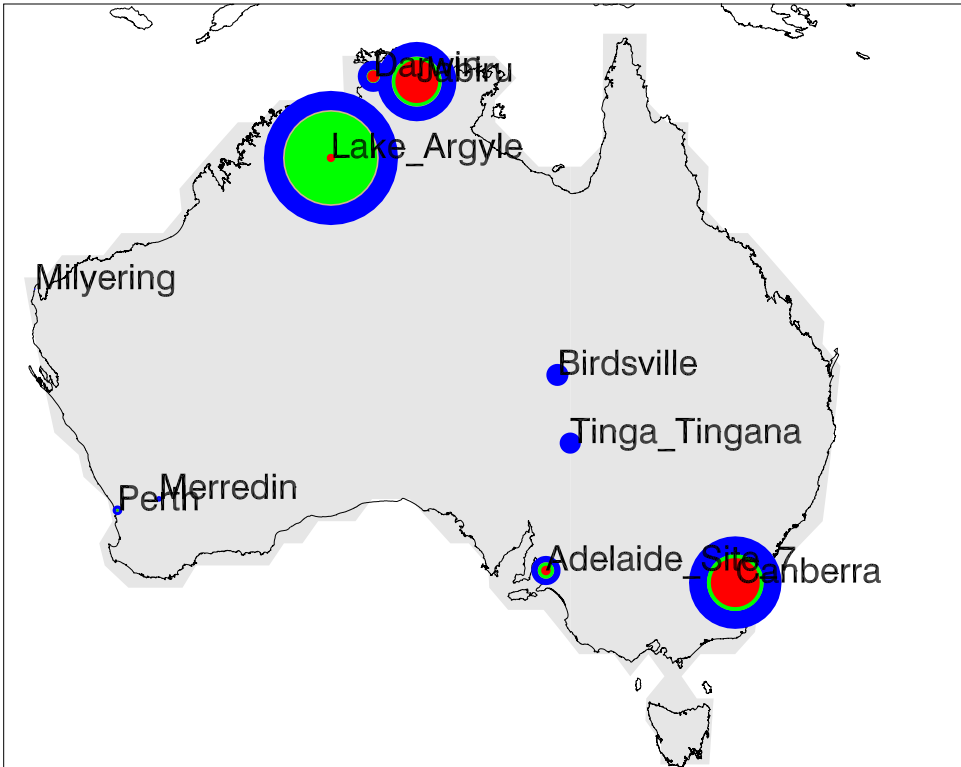
A

26.50S 137.50E Australian Conti

AERONET AOD: N= 3094  $\overline{\tau}$ =0.09 eta=0.50

MODIS  $\tau$

- RAW
- BASE
- NEW
- STRONG



Which		MODIS AOD			MODIS-AERONET		% -/in/+	Regression	
		Mean	>0.2	>1.0	Mean Bias	RMSE		Slope	r <sup>2</sup>
RAW	(N= 3011)	0.112	0.18	0.00	0.024	0.089	6/71/22	1.339	0.11
BASE	(N= 1667)	0.078	0.09	0.00	-0.005	0.063	6/84/ 8	1.127	0.13
NEW	(N= 1618)	0.068	0.06	0.00	-0.015	0.057	6/88/ 4	0.959	0.09
CLIM	(N= 1588)	0.074	0.06	0.00	-0.007	0.055	4/89/ 5	0.986	0.12
AERONET AOD > 0.2									
RAW	(N= 281)	0.295	0.74	0.00	0.007	0.158	20/55/23	1.123	0.01
BASE	(N= 123)	0.246	0.58	0.00	-0.049	0.143	32/55/12	0.994	0.04
NEW	(N= 118)	0.211	0.51	0.00	-0.085	0.150	42/50/ 7	0.880	0.04
CLIM	(N= 112)	0.220	0.54	0.00	-0.077	0.147	35/57/ 7	0.900	0.05

Which	Noise	vs $\tau_A$		vs $\tau_M$		Est.@	Est.@	Est.@	Est.@	Est.@
	Floor	Diagnostic		Prognostic		0.1	0.2	0.4	0.6	1.0
RAW	0.078	0.04	+ 0.29 $\tau$	-0.07	+ 0.71 $\tau$	0.08	0.08	0.21	0.35	0.64
BASE	0.051	-0.06	+ 0.59 $\tau$	-0.00	+ 0.39 $\tau$	0.05	0.07	0.15	0.23	0.39
NEW	0.042	-0.06	+ 0.62 $\tau$	-0.00	+ 0.34 $\tau$	0.04	0.06	0.13	0.20	0.34
CLIM	0.040	-0.11	+ 0.76 $\tau$	-0.03	+ 0.42 $\tau$	0.04	0.06	0.14	0.23	0.40