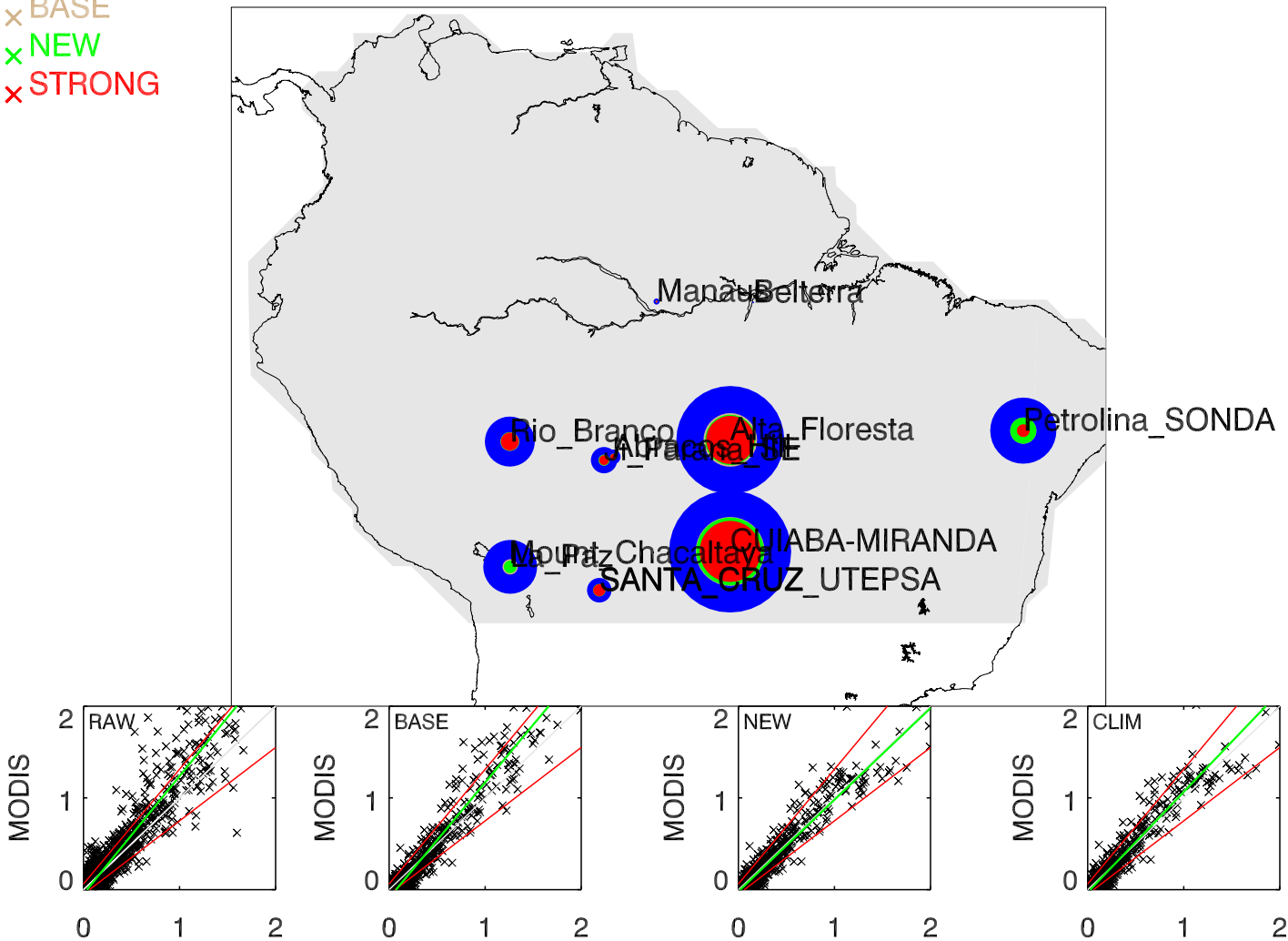


A 6.50S 60.50W South America

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

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= 2317) | 0.280 | 0.32 | 0.07 | 0.025 | 0.189 | 19/62/18 | | 1.079 | 0.76 | |
| BASE | (N= 1041) | 0.285 | 0.29 | 0.09 | -0.013 | 0.187 | 27/65/ 6 | | 1.041 | 0.83 | |
| NEW | (N= 1004) | 0.262 | 0.31 | 0.07 | -0.019 | 0.124 | 13/81/ 5 | | 0.985 | 0.83 | |
| CLIM | (N= 963) | 0.248 | 0.28 | 0.07 | -0.005 | 0.110 | 10/82/ 6 | | 1.034 | 0.85 | |
| AERONET AOD > 0.2 | | | | | | | | | | | |
| RAW | (N= 662) | 0.757 | 0.88 | 0.24 | 0.107 | 0.331 | 11/61/26 | | 1.065 | 0.73 | |
| BASE | (N= 359) | 0.726 | 0.80 | 0.25 | 0.057 | 0.302 | 15/67/17 | | 1.040 | 0.82 | |
| NEW | (N= 338) | 0.623 | 0.85 | 0.22 | -0.010 | 0.199 | 13/75/10 | | 0.983 | 0.82 | |
| CLIM | (N= 297) | 0.610 | 0.84 | 0.22 | 0.022 | 0.182 | 12/72/14 | | 1.031 | 0.84 | |
| | Noise | vs τ_A | | | vs τ_M | | Est.@ | Est.@ | Est.@ | Est.@ | Est.@ |
| Which | Floor | Diagnostic | | | Prognostic | | 0.1 | 0.2 | 0.4 | 0.6 | 1.0 |
| RAW | 0.081 | -0.01 + | 0.32 τ | 0.04 + | 0.16 τ | 0.08 | 0.08 | 0.10 | 0.14 | 0.20 | |
| BASE | 0.072 | 0.03 + | 0.20 τ | 0.03 + | 0.13 τ | 0.07 | 0.07 | 0.08 | 0.10 | 0.15 | |
| NEW | 0.055 | 0.05 + | 0.09 τ | 0.01 + | 0.16 τ | 0.06 | 0.06 | 0.08 | 0.11 | 0.17 | |
| CLIM | 0.052 | 0.05 + | 0.12 τ | 0.02 + | 0.14 τ | 0.05 | 0.05 | 0.08 | 0.11 | 0.16 | |