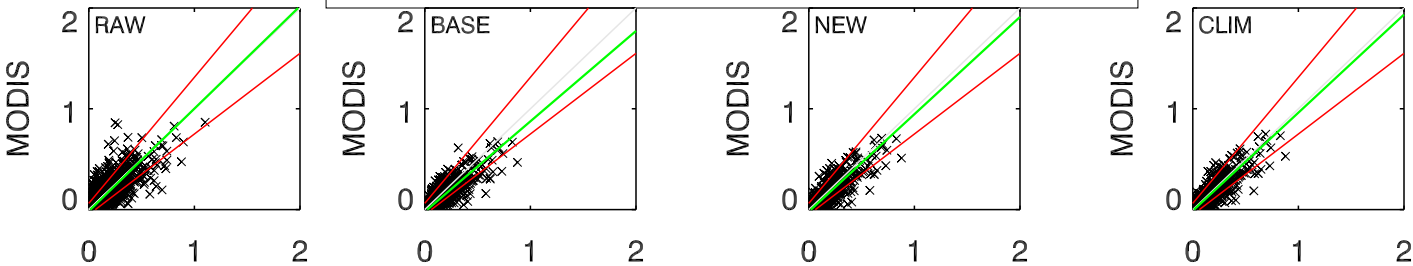
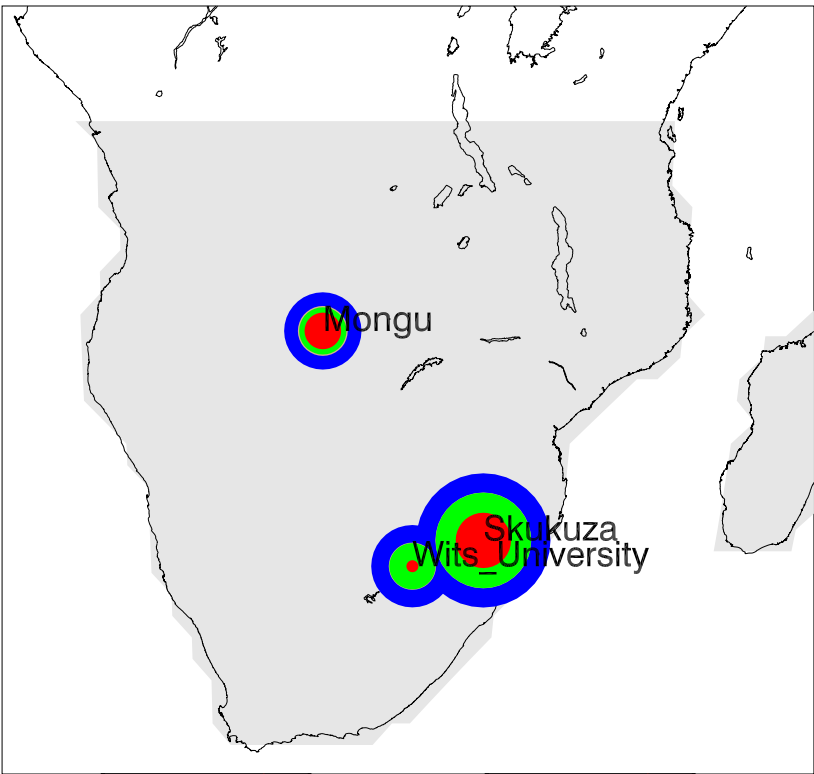


A 17.50S 26.50E Africa below equ

AERONET AOD: N= 1331 $\overline{\tau}$ =0.16 eta=0.64

MODIS τ

- x RAW
- x BASE
- x NEW
- x 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= 1349) | 0.157 | 0.27 | 0.00 | -0.013 | 0.094 | 14/71/13 | 0.958 | 0.33 | |
| BASE | (N= 886) | 0.130 | 0.19 | 0.00 | -0.039 | 0.081 | 17/78/ 3 | 0.856 | 0.46 | |
| NEW | (N= 867) | 0.145 | 0.23 | 0.00 | -0.025 | 0.075 | 13/81/ 5 | 0.931 | 0.53 | |
| CLIM | (N= 854) | 0.155 | 0.25 | 0.00 | -0.016 | 0.071 | 9/84/ 6 | 0.956 | 0.55 | |
| AERONET AOD > 0.2 | | | | | | | | | | |
| RAW | (N= 394) | 0.275 | 0.63 | 0.00 | -0.048 | 0.133 | 25/65/ 9 | 0.906 | 0.31 | |
| BASE | (N= 258) | 0.239 | 0.53 | 0.00 | -0.077 | 0.122 | 33/64/ 1 | 0.829 | 0.46 | |
| NEW | (N= 256) | 0.264 | 0.64 | 0.00 | -0.051 | 0.109 | 23/73/ 3 | 0.904 | 0.55 | |
| CLIM | (N= 257) | 0.278 | 0.69 | 0.00 | -0.038 | 0.104 | 17/76/ 6 | 0.932 | 0.54 | |

| 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 | 0.073 | 0.02 + | 0.24 τ | -0.02 + | 0.39 τ | 0.07 | 0.07 | 0.14 | 0.22 | 0.37 |
| BASE | 0.056 | 0.01 + | 0.28 τ | 0.04 + | 0.16 τ | 0.06 | 0.07 | 0.10 | 0.13 | 0.20 |
| NEW | 0.055 | 0.02 + | 0.21 τ | 0.01 + | 0.21 τ | 0.05 | 0.05 | 0.09 | 0.13 | 0.21 |
| CLIM | 0.049 | 0.02 + | 0.19 τ | 0.02 + | 0.15 τ | 0.05 | 0.05 | 0.08 | 0.11 | 0.17 |