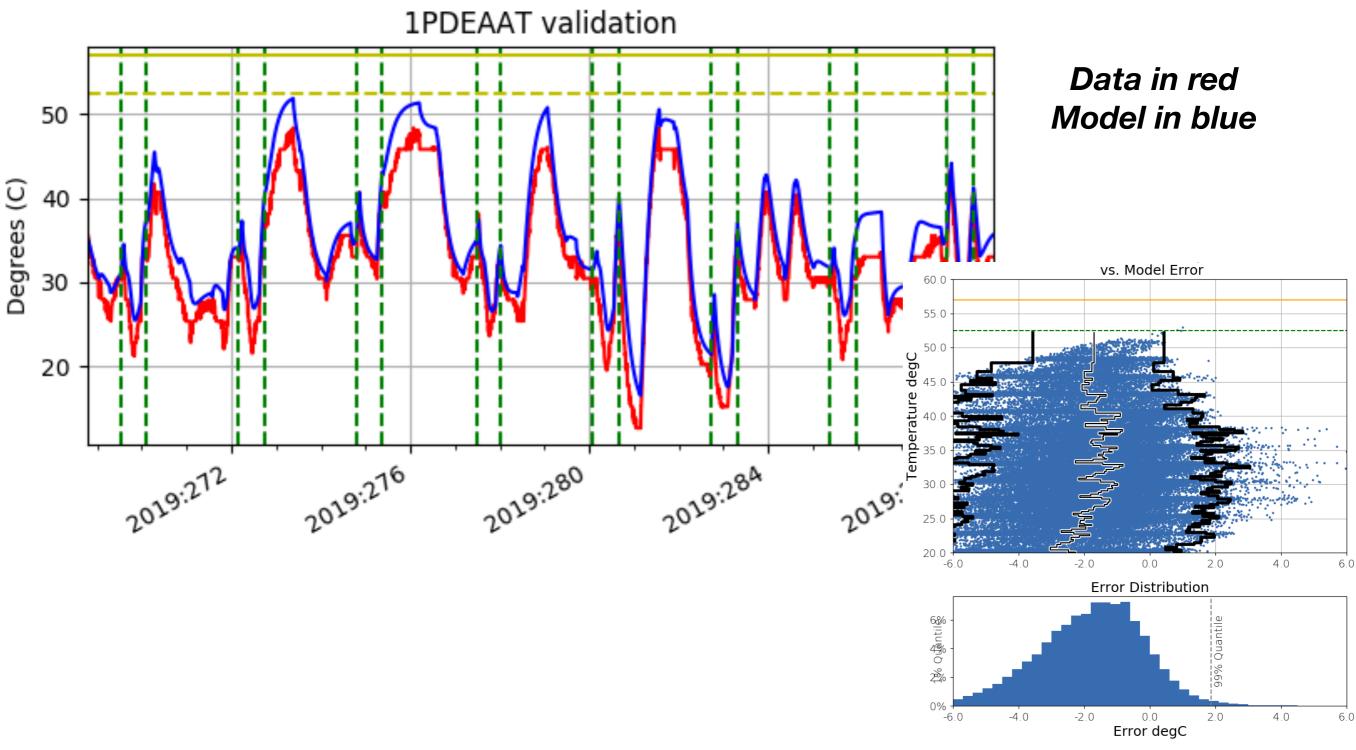
PSMC Thermal Model Update

Feb. 4, 2020 Jack Steiner

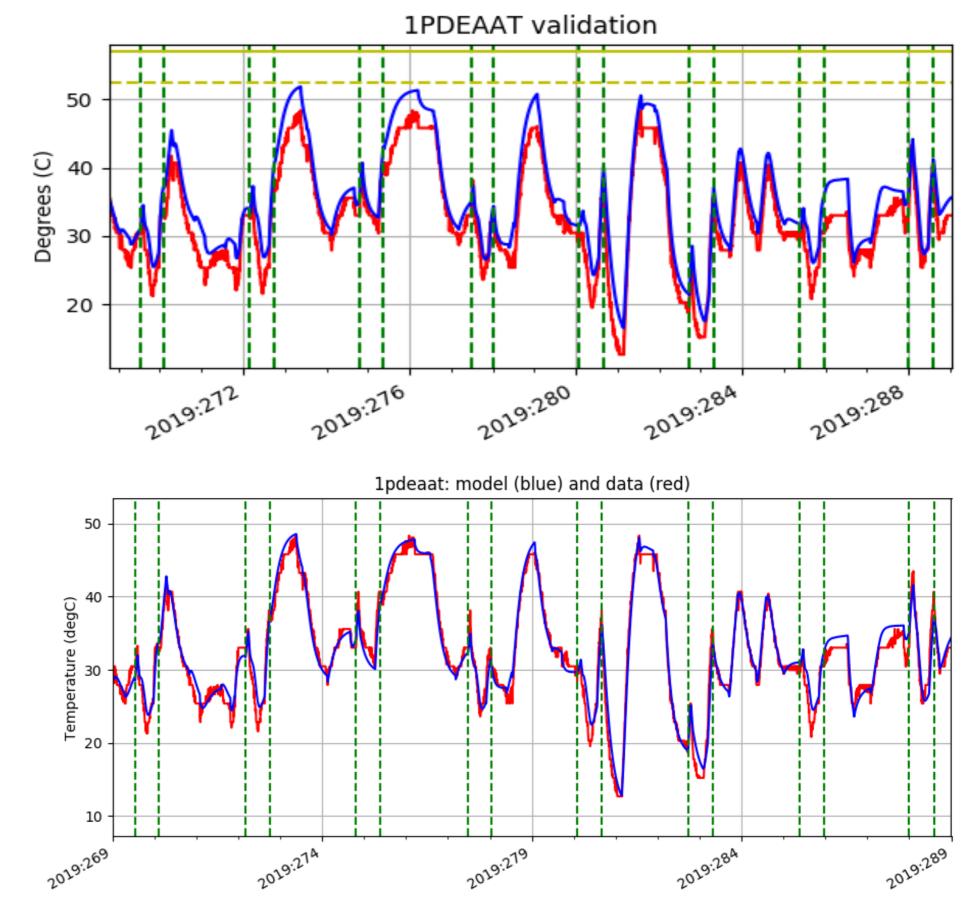
*json parameter update ONLY



Current model performance

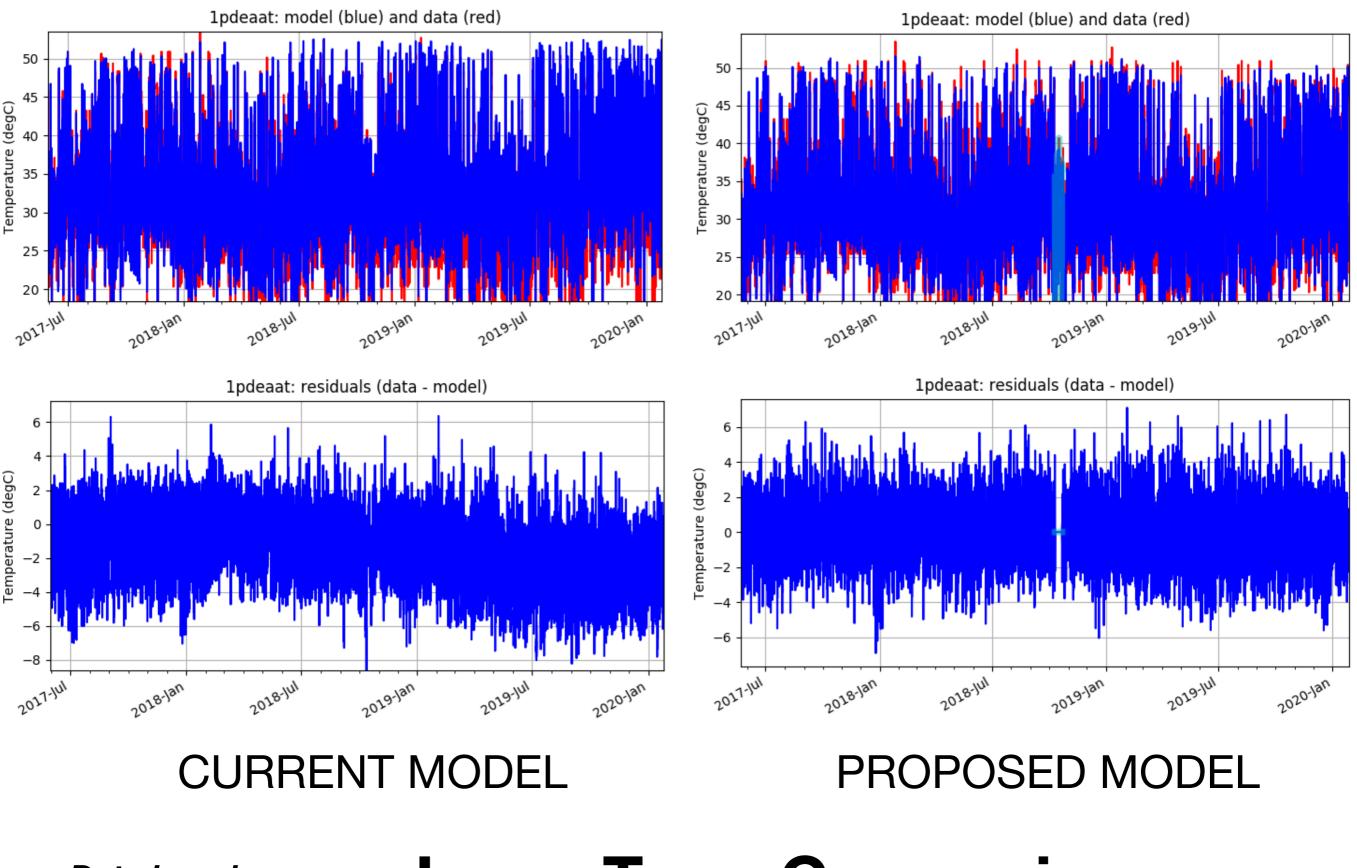
Consistent overprediction: safe, but limiting.





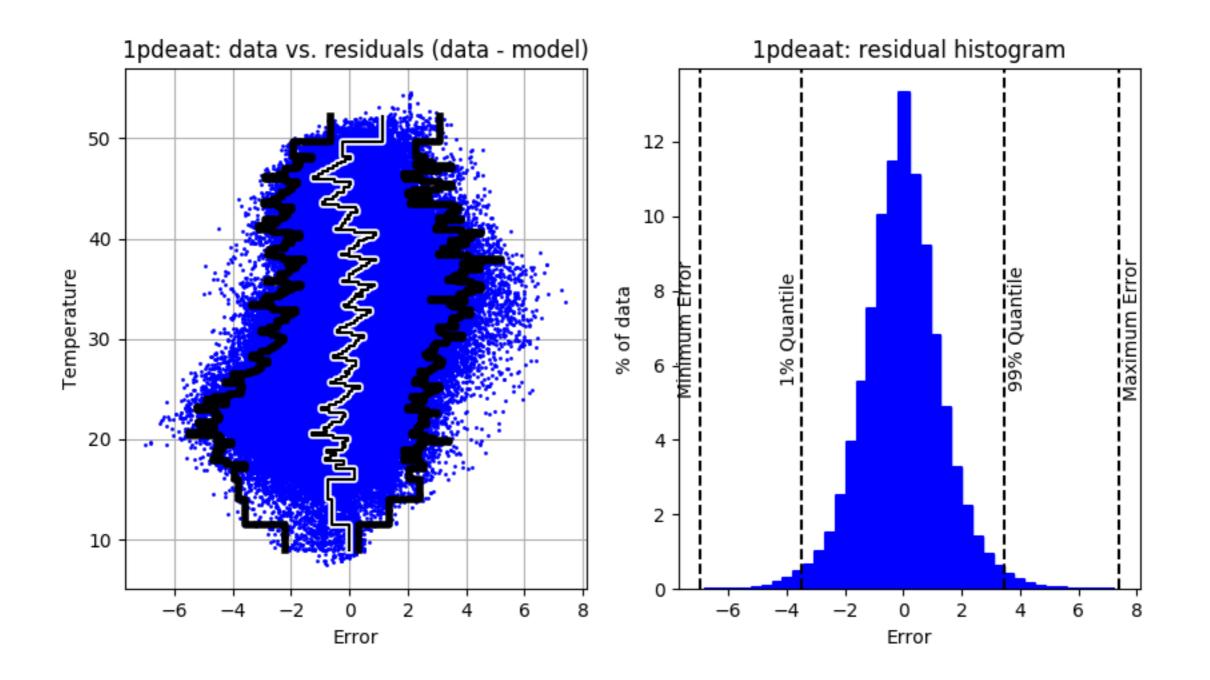
Better performance across the board but not as safe.

Recalibrated PSMC model



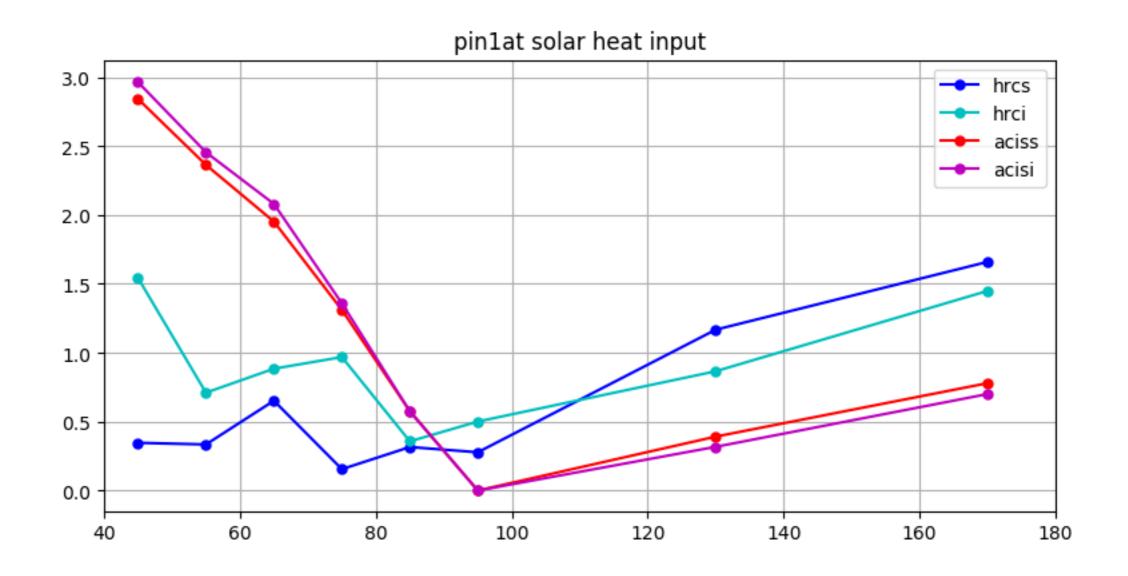
Data in red Model in blue

Long-Term Comparison



Compare vs 5 deg. Ylim-Plim gap

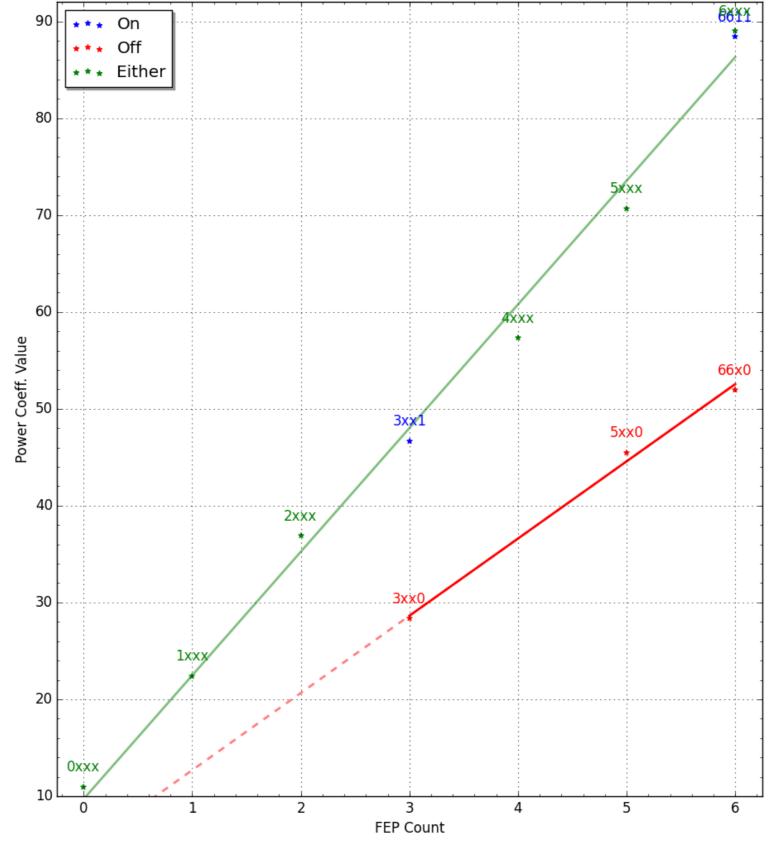
Only fitting data above 20 degrees to optimize for performance at higher temperatures of most interest.



Solar heating vs Pitch, sim-Z

New this version: bias set to 0, and lowest solar coefficient driven to 0

DPA FEP Coefficients



DPA Power Coefficients