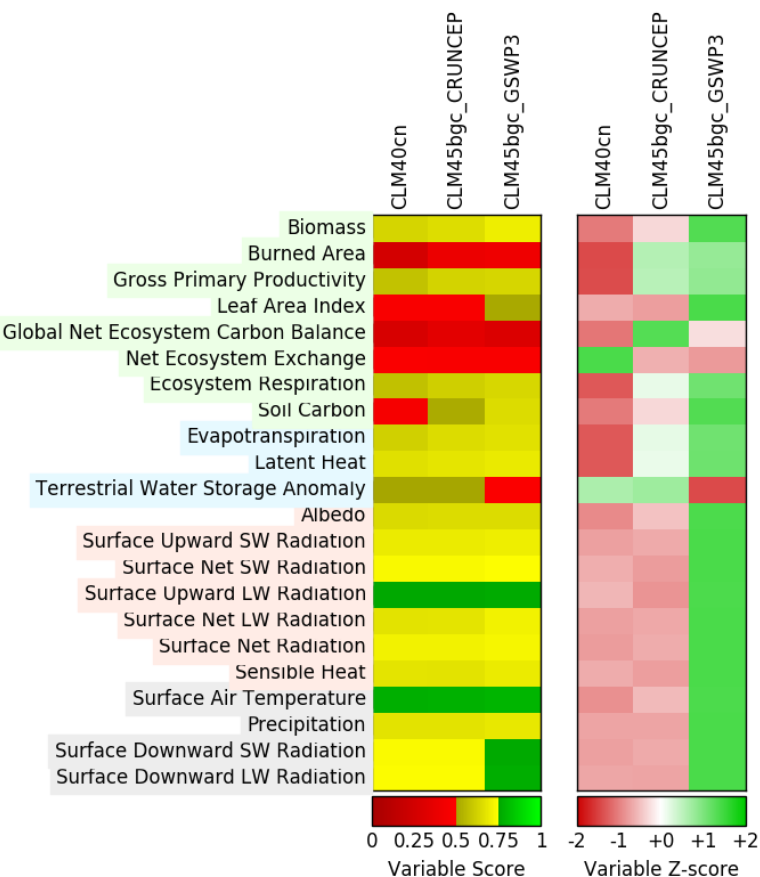# The ILAMB Benchmarking System (v2) Release

Summary graphic generated by the ILAMBv2 package depicting model performance across a wide variety of variables, emphasizing absolute performance (left) as well as relative performance (right).

Collier, N. et al. (2016), The ILAMB Benchmarking System, doi:10.18139/ILAMB.v002.00/1251621.

Objective:
Research and disseminate benchmarking procedures and datasets which improve land model fidelity.

Approach:
- Software framework written in python that compares model outputs to benchmark observational datasets in parallel on leadership-class supercomputers.
- Provides the community a means to comprehensively and routinely assess land model fidelity through comparison of 24 variables with 60 observational datasets.

Results/Impacts:
- Framework provides an abstraction that allows groups to develop plugins to extend its functionality.
- New datasets and comparisons are easily added, encouraging routine use by modeling centers across the globe.
- Package is currently used by ACME and CESM to evaluate new model developments.

BGC Feedbacks