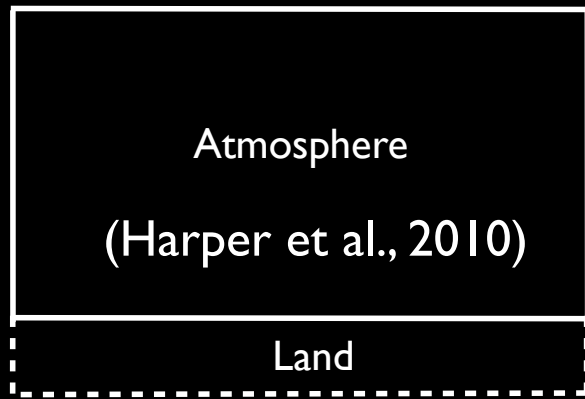


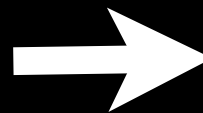
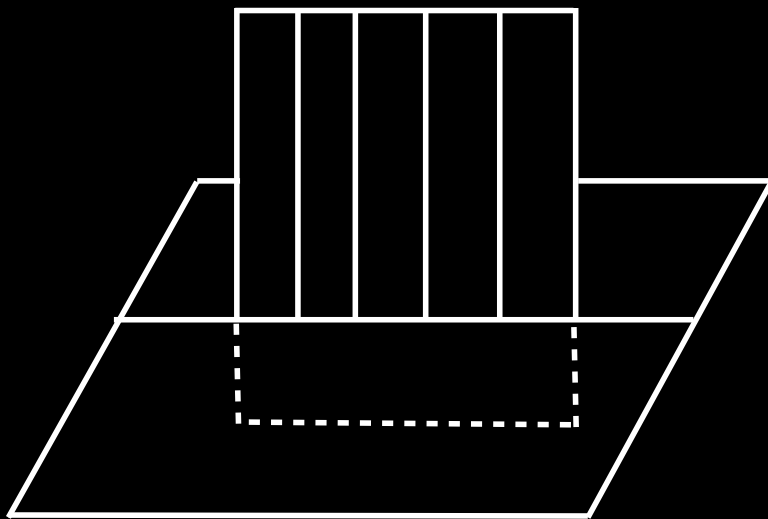
Distributed Land Site- Test: K83, Brazil

Ian Baker, Don Dazlich, Anna Harper, Mark Branson,
Scott Denning, Dave Randall

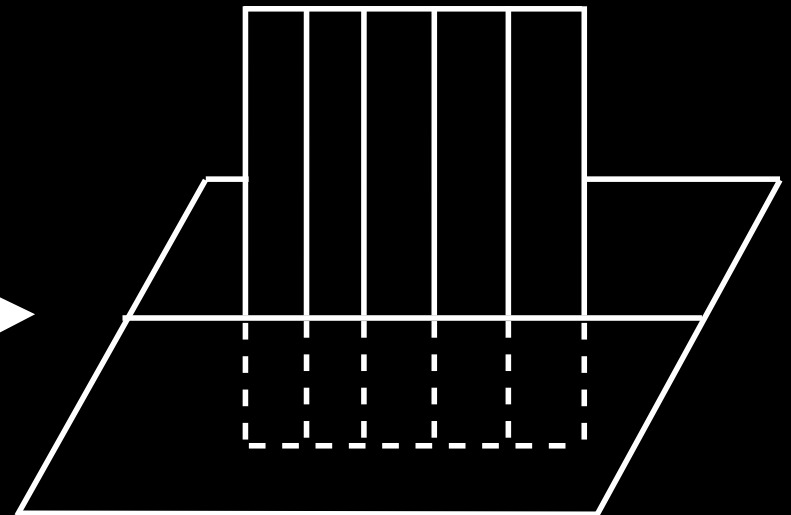
From this



To this



To this



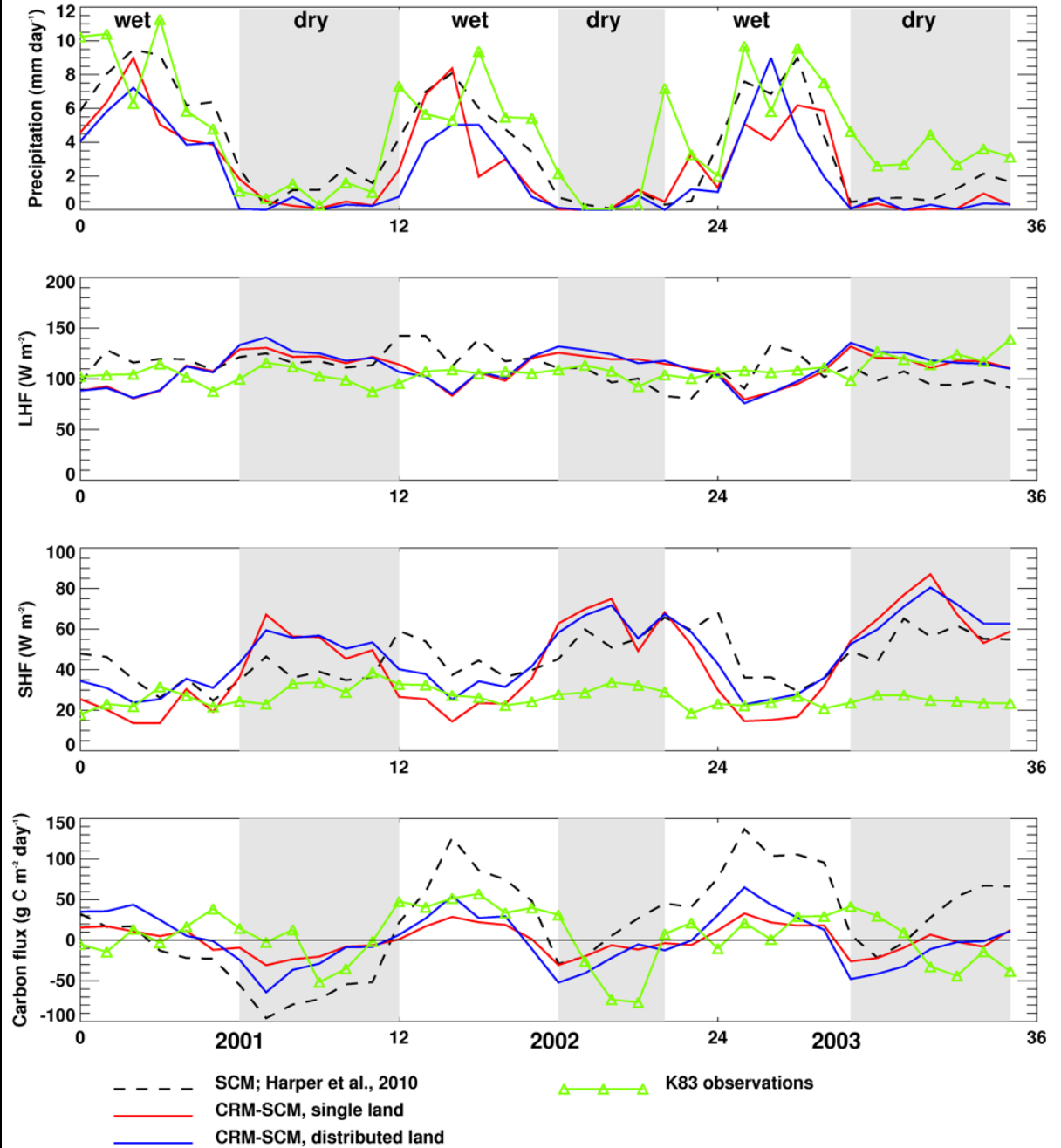
Superparameterized
Single Column
Model (Super-SCM)

What kinds of changes are we looking for?

- Bowen Ratio/evaporation components
- Precipitation
- Carbon Flux
- Diurnal cycle - NEXT!

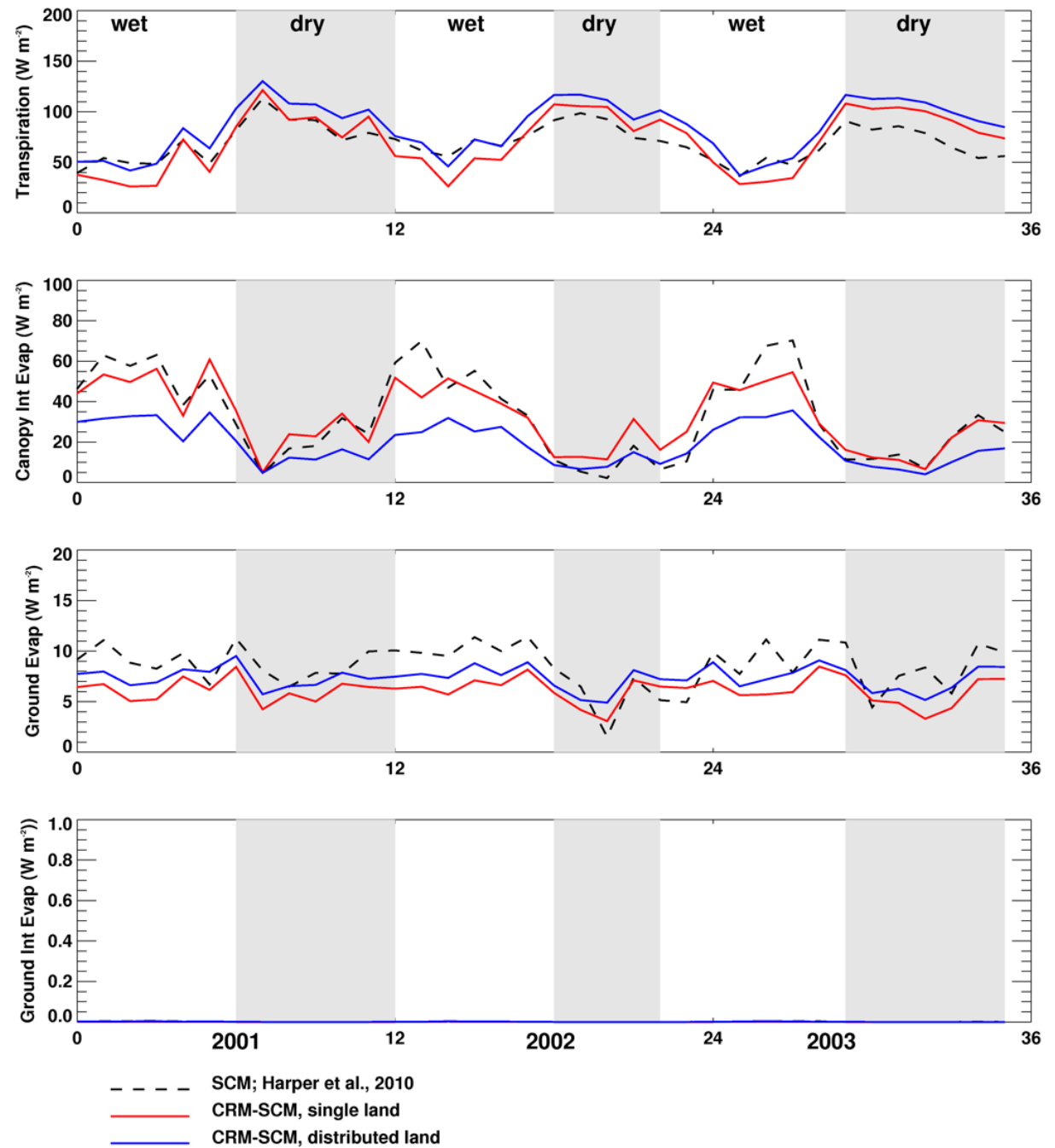
The BASICS

- Had to use some proxies for LHF/SHF



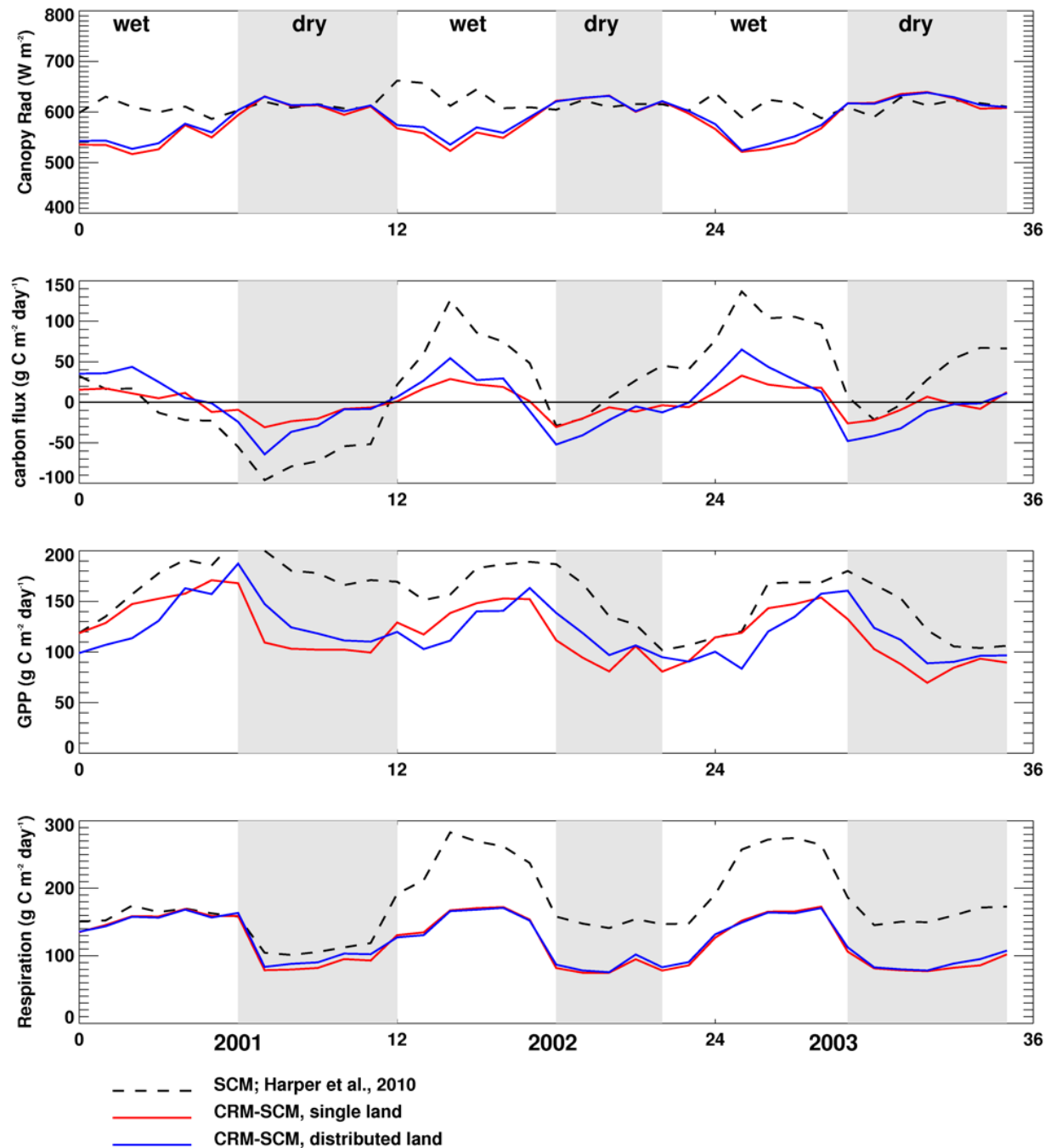
Evaporation Components

- repartitioning away from ECI with distributed land
- ground evap always small



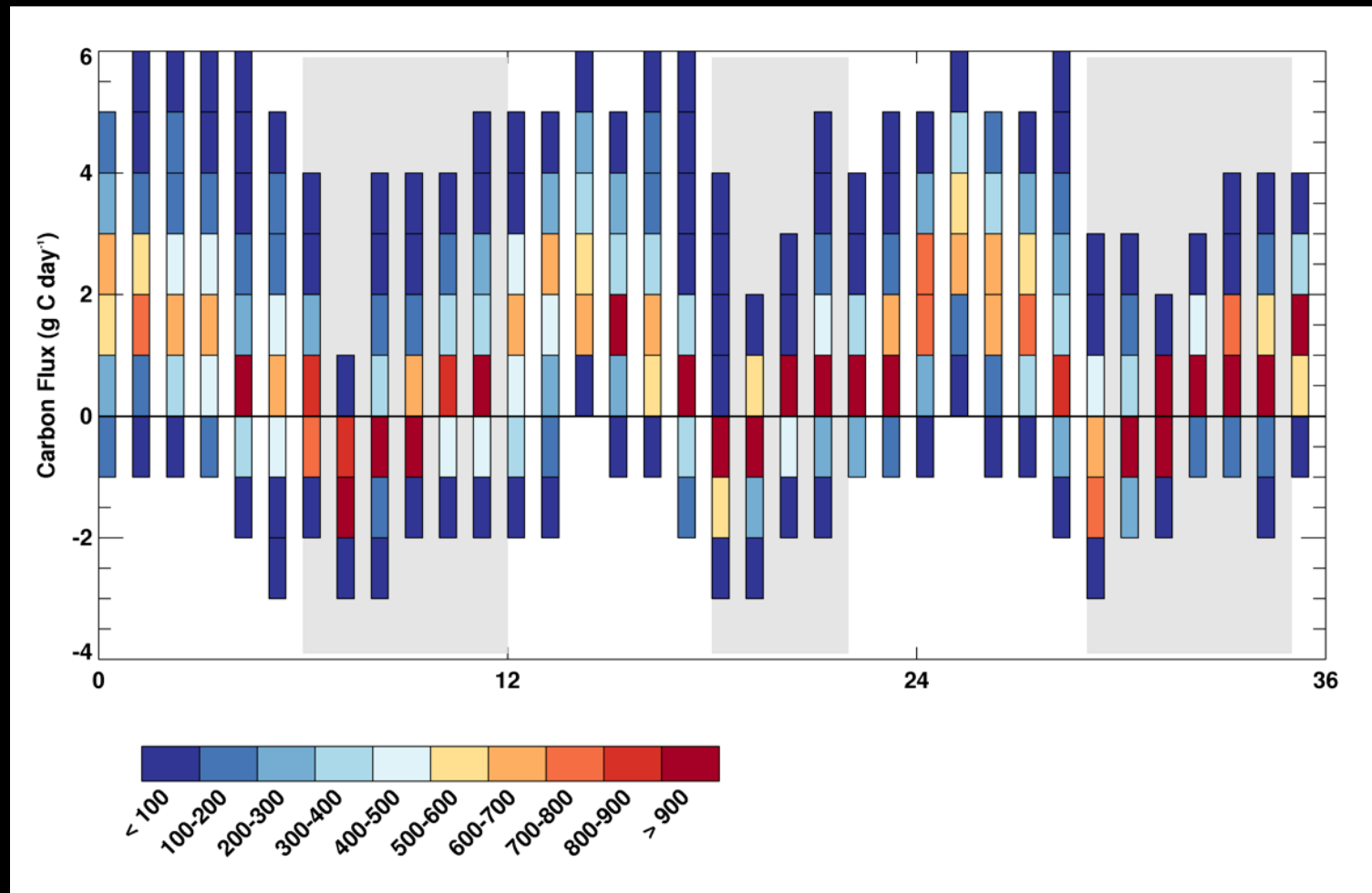
Carbon Cycle

- SCM shows no annual cycle in canopy rad
- SCM has largest amplitude carbon cycle
- CRM-SCM single land has lowest-amplitude carbon flux; why?



Carbon Cycle

- Monthly-mean daily carbon flux, SCM-CRM distributed land
- Heterogeneity of response; on a monthly basis, there is uptake/efflux from a fraction of the GCM gridcell



What about the atmosphere?

- Initial runs do not have very many atmospheric diagnostics, and what we have does not overlap with the diagnostics saved by Harper et al. (2010)

NEXT:

- Re-run SCM-CRM single and distributed land to obtain atmospheric diagnostics aligned with Harper et al. (2010)
- Diurnal composites (hourly output)