The land surface and the atmosphere – BFF or frenemies?

Single column models (SCMs) are a valuable tool to investigate climate feedbacks, which would otherwise be computationally restrictive within a fully coupled global circulation model (GCM).

This project will make use of the SCM version of the ACCESS GCM (https://wiki.csiro.au/display/ACCESS/Home) to investigate land-atmosphere feed-backs between CABLE (the land surface model in ACCESS) and the UM (the atmospheric component of ACCESS), by carrying out a wide range of parameter sensitivity experiments.

The student will gain valuable experience in using Linux/UNIX, compiling code, scripting (NCL and/or Python), as well as gain familiarity with the ACCESS-SCM modeling system.

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