

CABLE module update

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Infrastructure changes

- Establishment of the Australian Earth System Simulator – National Research Infrastructure, aka ACCESS-NRI.

It manages code developments and ensures the ongoing functionality across the community's multiple applications for the Australian research community.

- JaC

Work on inputs into JULES and variable definitions and declarations for CABLE

Implementation of CABLE's albedo code. Hopefully in October's release.



Science changes

- **BLAZE-SIMFIRE**

Development of the fire disturbance parametrisation

- **Land use change**

Add secondary vegetation to the module used in ACCESS-ESM1.5 (CMIP6)

- **Multi-layer soil carbon**

includes vertical transport of soil carbon and uses Michaelis-Menten kinetics for soil carbon decomposition by microbes (Wang et al. 2021)

- **Groundwater**

Modified version of the SIMGM model (Niue et al 2007 and Decker 2015).

