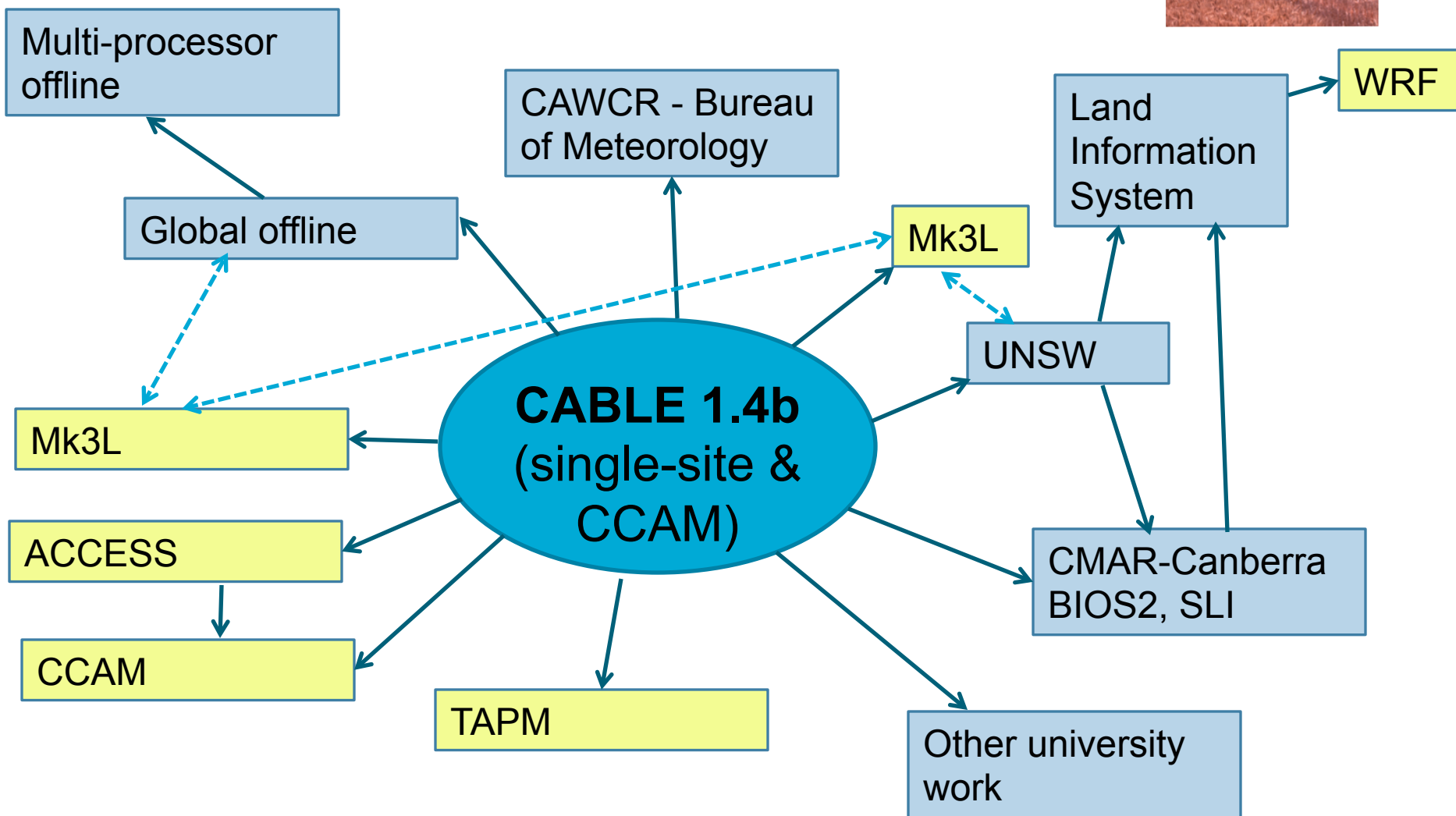
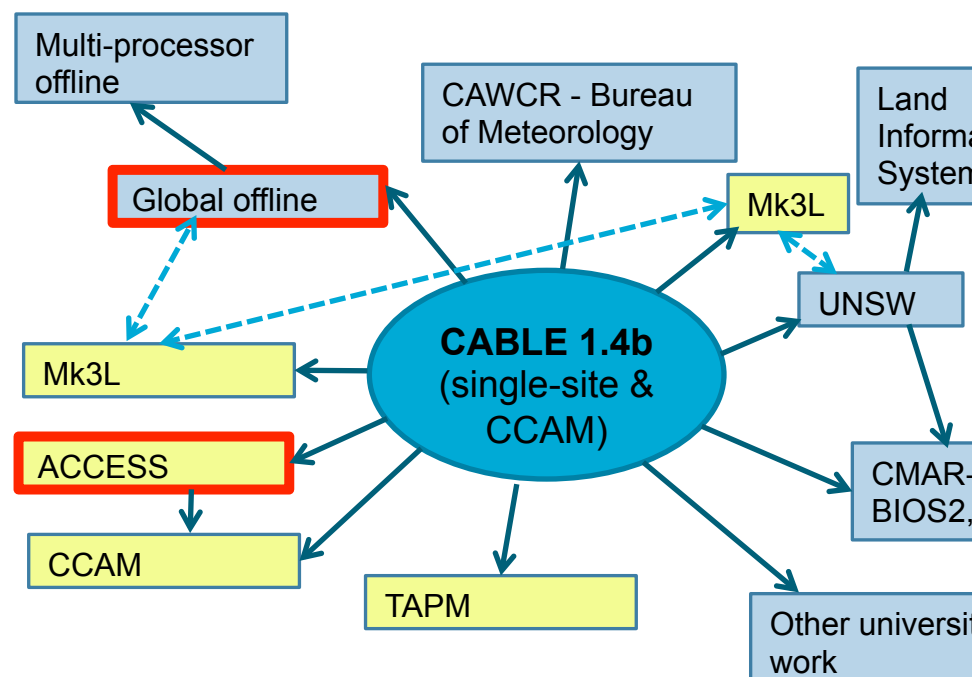


CABLE development since ~2008



CABLE-2.0

- Combines offline (global, regional, single-site) and ACCESS versions with common science code
- Cleaner code including interface to UM
- Inclusion of biogeochemistry (CASA-CNP) though not fully implemented
- Hydraulic redistribution (optional, default OFF)
- Soil water flux correction for energy balance
- Version control in Subversion repository hosted at NCI
- Trac page to facilitate community code development
- Release date: This week.



CABLE trac page



Trac - Windows Internet Explorer

https://trac.nci.org.au/trac/cable/wiki

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CABLE: The Community Atmosphere Biosphere Land Exchange Model

Welcome to the **CABLE trac page**. This site provides CABLE documentation and a forum to track, discuss and handle CABLE code development. For full functionality, please login.

On this site

- [CableDocuments](#) for CABLE documentation, including User guide, coding conventions and Guidelines for developers.
- [CableBenchmarking](#) showing how CABLE-2.0 performs.
- [CableForum](#) for general discussion of CABLE issues.
- [CableNews](#): monthly messages sent out to the CABLE email list.
- [CablePlans](#): ideas for future releases of CABLE.
- [CablePublications](#): publications that use CABLE, included those submitted or in preparation.

Other useful information

- [Information about the CABLE email list](#)
- [CABLE web page](#)
- [ACCESS trac](#)

Information about trac is at [TracBegin](#).

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CABLE-2.0 benchmarking



CableBenchmarking - cable - Trac - Windows Internet Explorer

https://trac.nci.org.au/trac/cable/wiki/CableBenchmarking

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CABLE benchmarking

Providing information about tests performed with each version of CABLE.

Suggestions for extra tests are welcome, to enable a more comprehensive benchmarking process over time. If you have a 'favourite' CABLE test, please tell us about it on the [CableForum](#).

CABLE-2.0

The following tests and benchmarks have been performed on the CABLE v2.0 code.

- **TechnicalTests**: short tests to check code integrity.
- **StandardRuns**: test runs for new users to check their model set-up against.
- **OfflineBenchmarks**: single-site and global offline benchmark tests.
- **OnlineBenchmarks**: atmosphere only ACCESS simulations.

trac POWERED

Done

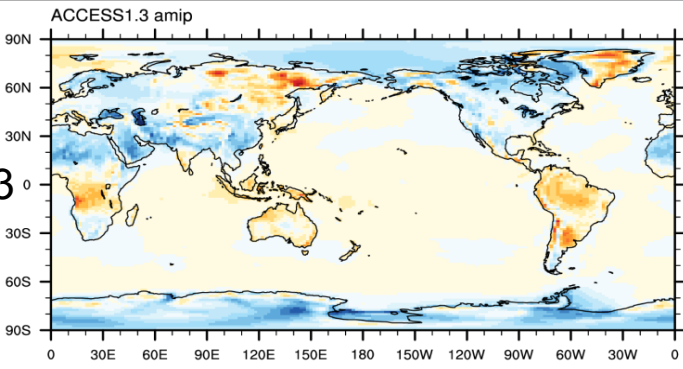
- **TechnicalTests**: short tests to check code integrity.
- **StandardRuns**: test runs for new users to check their model set-up against.
- **OfflineBenchmarks**: single-site and global offline benchmark tests.
- **OnlineBenchmarks**: atmosphere only ACCESS simulations.

ACCESS benchmark, atmosphere-only, 20 years

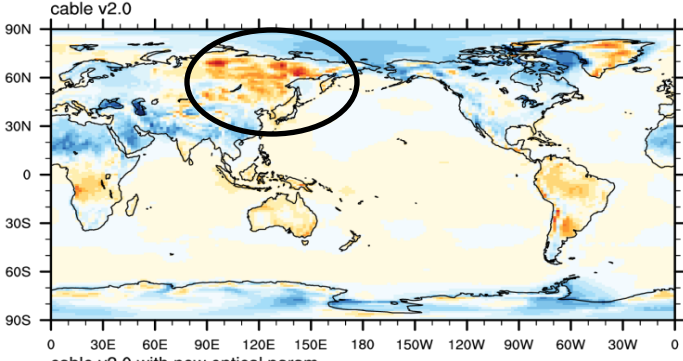
Seasonal screen level temperature bias



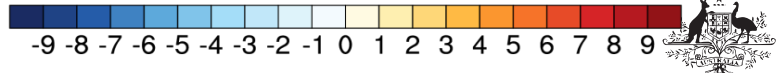
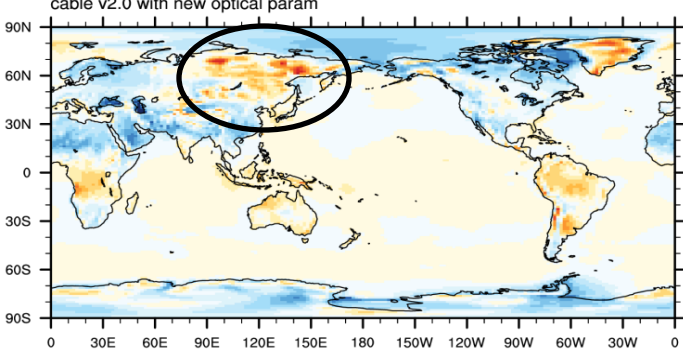
ACCESS1.3



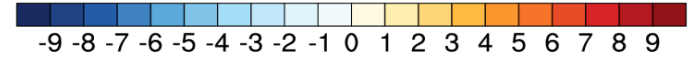
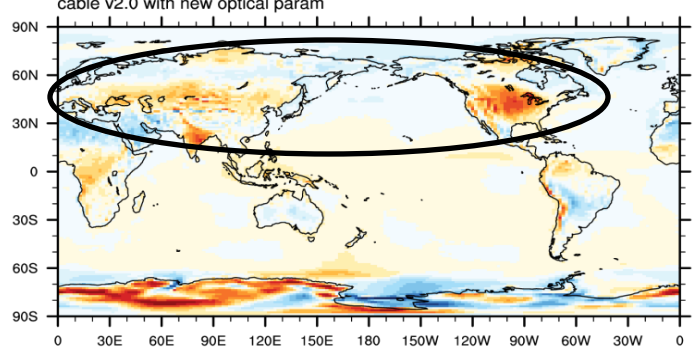
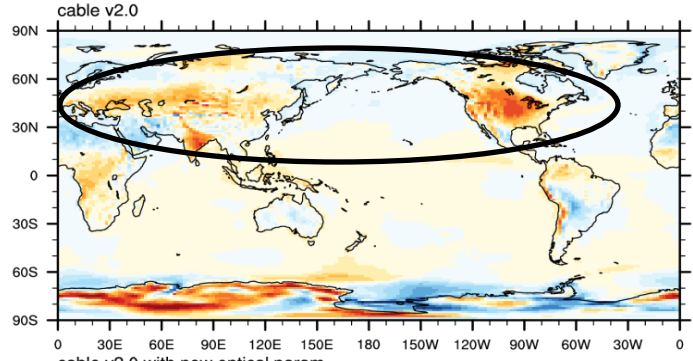
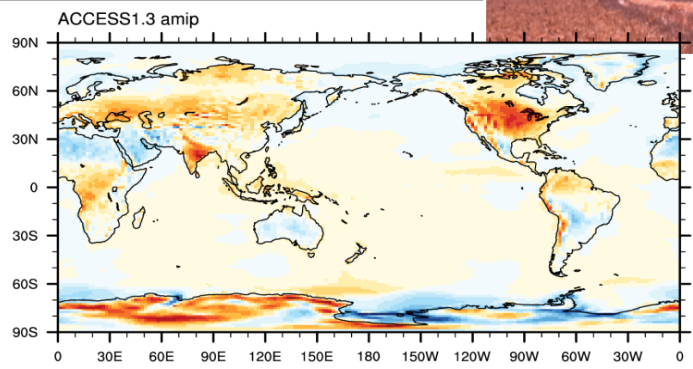
CABLE2.0



CABLE2.0
revised
optical
properties



Dec/Jan/Feb



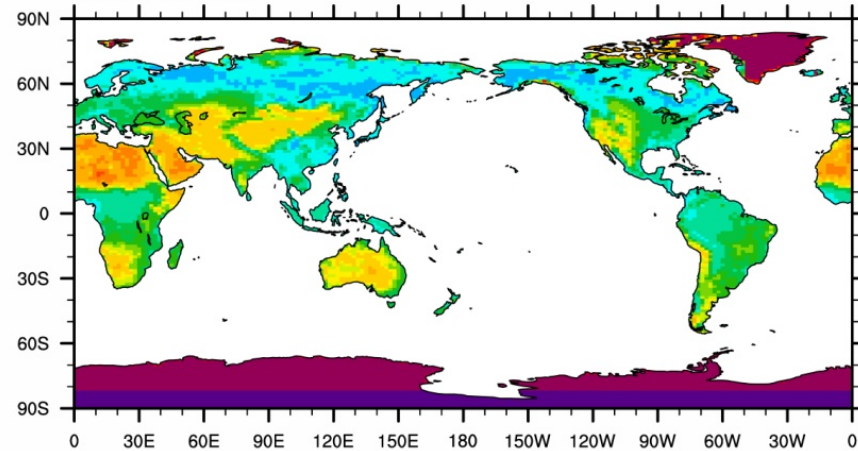
Jun/Jul/Aug

June-August surface albedo

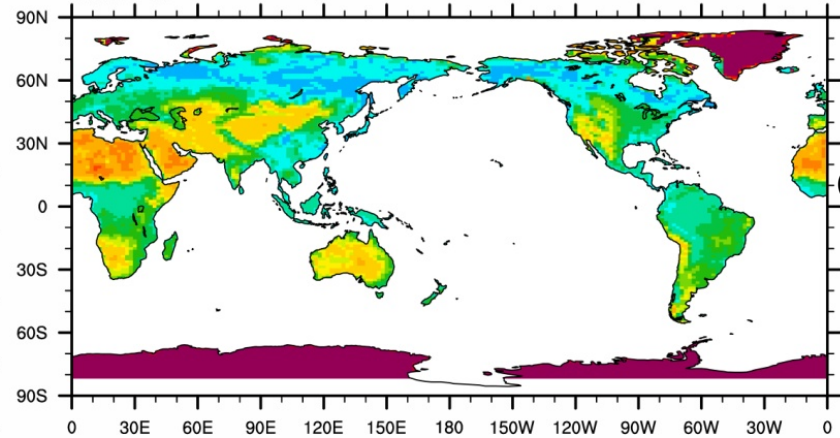


ACCESS1.3

ACCESS1.3 amip

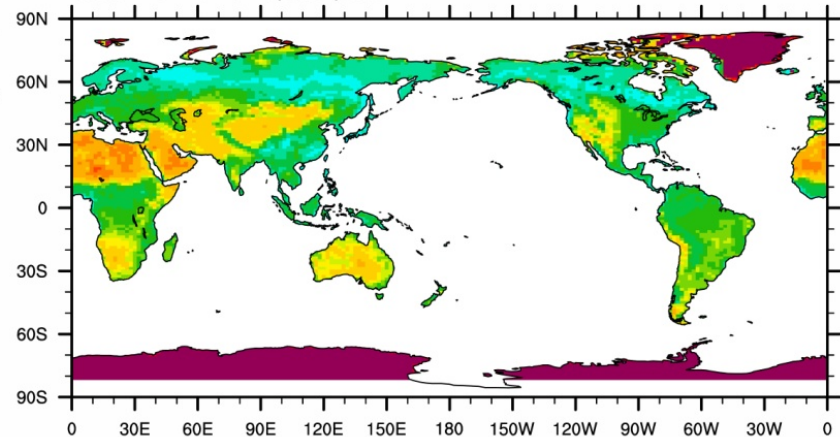


cable v2.0

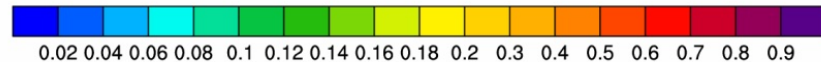


CABLE2.0

cable v2.0 with new optical param

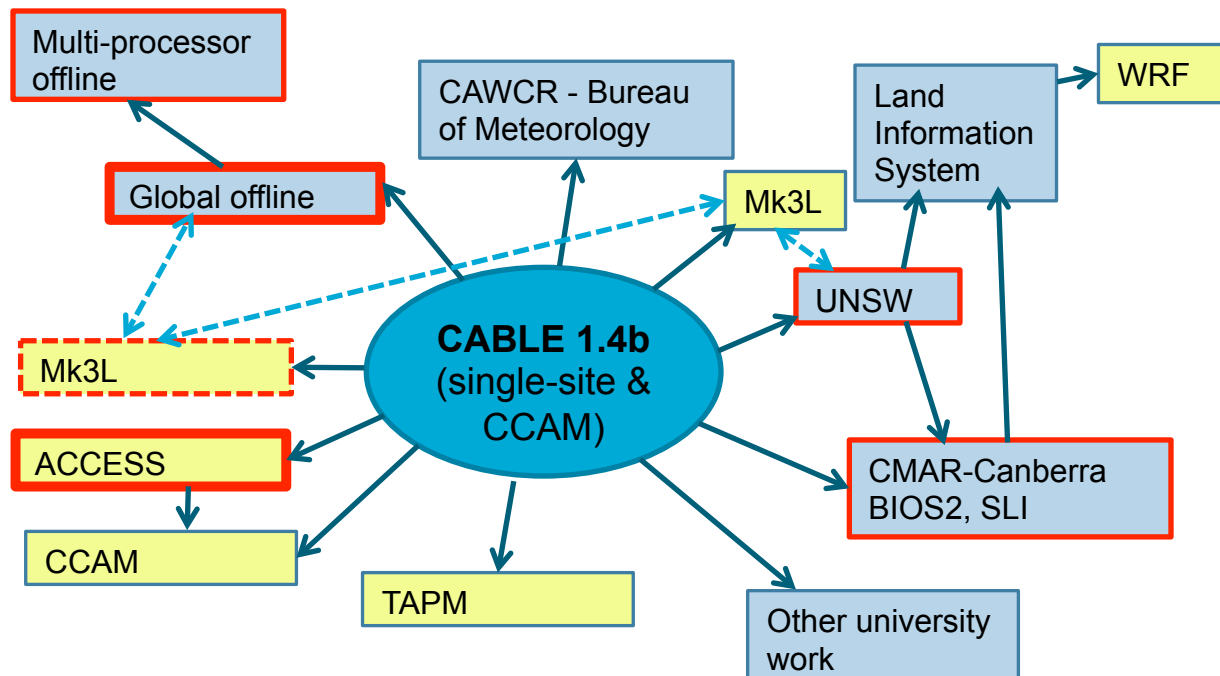


CABLE2.0
revised
optical
properties



What's next for CABLE-2.1?

- Carbon: full implementation of CASA-CNP (offline spin-up, ACCESS coupling)
- MPI offline version
- Soil-litter-isotope (SLI) scheme
- Assorted 'minor' code clean ups
- Mk3L interface into repository?



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- Land surface modelling team: Ying-Ping Wang, Eva Kowalczyk, Lauren Stevens, Jhan Srbinovsky, Bernard Pak, Tilo Ziehn
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- The CABLE community ~100 people from 33 institutions
- Australian Climate Change Science Program (ACCSP)





Australian Government

Bureau of Meteorology

The Centre for Australian Weather and Climate Research
A partnership between CSIRO and the Bureau of Meteorology



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CABLE workshop, Oct 25 2012, UNSW

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CABLE email list: <https://lists.csiro.au/mailman/listinfo/cable-users>

Thank you

www.cawcr.gov.au

