

JLMP Systems and Platforms

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JLMP Systems and Platforms: CEDA JASMIN

CEDA JASMIN super data-cluster (won't be talking about other platforms here):

- Tutorial for getting set up on JASMIN and running a Loobos Rose/Cylc suite:
<https://code.metoffice.gov.uk/trac/jules/wiki/RoseJULESonJASMIN>
 - (Carolina, Patrick, formerly Kerry Day, Ag Stephens, et al.)
- Tutorial that includes parts of the above tutorial (as step #4) for getting set up on JASMIN, but also includes other relevant information:
<https://research.reading.ac.uk/landsurfaceprocesses/software-examples/tutorial-rose-cylc-jules-on-jasmin/> (Patrick, Pier Luigi)
- The CEDA JASMIN virtual machine `jasmin-cylc` is the preferred host for submitting Rose/Cylc jobs to the LOTUS batch modes.
 - Not `jasmin-sci*`. The Rose/Cylc Xwindow GUIs have recently been enabled on `jasmin-cylc`, making life much easier.

JLMP Systems and Platforms: FLUXNET suite

Rose/Cylc suite u-al752 for customized JULES modeling of 75 FLUXNET sites (suite owned by Anna H., Karina, Patrick & Carolina):

- <https://code.metoffice.gov.uk/trac/jules/wiki/FluxnetandLbaSites>
- Currently, the JULES model of each site can be custom-adapted to fit the data better.
- We plan to add a feature so that the suite can use the GL7 configuration as the standard reference.
- Tutorial that uses this FLUXNET suite u-al752 as the example (instead of Loobos):
<https://research.reading.ac.uk/landsurfaceprocesses/software-examples/tutorial-rose-cylc-jules-on-jasmin> (Patrick, Pier Luigi)

JLMP Systems and Platforms: global gridded suites

- Rose/Cylc suite u-as052 (“GL6R”): global gridded WFDEI-driven JULES model configuration (Pier Luigi, Patrick, Alberto, et al.)
 - <https://research.reading.ac.uk/landsurfaceprocesses/software-examples/jules-fluxnet2015-jules-global/runningglobal/>
- Rose/Cylc suite u-bb316 (GL7): global gridded CRU/NCEP-driven JULES model configuration (Andy W., Carolina, et al.):
 - <https://code.metoffice.gov.uk/trac/jules/wiki/JointLandModellingProgramme>
 - <https://code.metoffice.gov.uk/trac/jules/wiki/JulesConfigurations>
 - https://code.metoffice.gov.uk/trac/jules/wiki/JointLandModellingProgramme_JASMIN_running
- Rose/Cylc suite u-bk950 (ES) for JASMIN and MO CRAY is being released:
 - global gridded Earth Systems JULES model configuration (Andy W., Carolina, et al.);
 - CRU/NCEP-driven;
 - e.g., time-dependent vegetation (land use) ancillaries

JLMP Systems and Platforms: ILAMB, LVT, NCAS CMS support

- ILAMB suite u-ba284 for comparing JULES-ES models (CRU/NCEP-driven) to ILAMB benchmark data (Carolina, Eddy).
 - The ILAMB suite u-ba897 is the U. Reading version.
 - Tutorial for running suite: <https://research.reading.ac.uk/landsurfaceprocesses/software-examples/ilamb-tutorial/> (Patrick, Pier Luigi)
 - See Pier Luigi's 'Global Land' talk here at the Annual JULES meeting for examples.
- Still trying to get LVT installed on JASMIN
- Support from NCAS/CMS (Computational Modeling Services) available (Dave C., Patrick, Grenville)
 - Currently performing 'rose stem' tests and tests of u-bb316/GL7 on CEDA JASMIN after each JULES upgrade.
 - See next page

JULES Support on JASMIN from NCAS/CMS

- Dave Case, Grenville Lister, Patrick McGuire, et al.
- NCAS CMS supports JULES on JASMIN, and can help with system issues
- The latest JULES releases are tested on the system, and they are centrally installed (although we recommend downloading from MOSRS)
- Certain standard suites are tested, and helpful documentation exists
- Support JULES community with respect to changes which may occur with the system in the future