



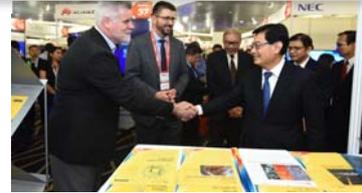
New Materials for Smart Filters

Gas mask technology has existed for over a century yet the way they work has not changed very much. RMIT's Dr Ravichandar Babarao, in collaboration with CSIRO and Monash University, is using computational modelling at NCI to evaluate the use of new materials called Metal-Organic Frameworks (MOFs) in filters, making much needed upgrades possible. Read more on [our website](#).

Preparing for the new HPC system

NCI's new HPC system will be available to users later this year. It will necessitate certain changes to software and user commands. Some things you can do now (on Raijin) to prepare for the transition to a new system later this year can be found on the [NCI Help page](#).

NCI presented about 'Future proofing Australia's research infrastructure' during the Singapore-Australia stream at SCAsia 2019 this month. NCI's Cloud Manager Andrew Howard also helped judge the Data Mover Challenge. Congratulations to [Zettar](#) as the overall winner!



Changes to data collections access

We have now completed the first 2 phases of the access changes to NCI's national reference data collection and will be starting the next phase in the coming month. More information can be found on the [NCI Opus page](#).

International FAIR Data Survey

The global community developing the FAIR (Findable, Accessible, Interoperable, Reusable) data standard is looking for input from researchers and repositories about next steps for advancing open data in science. Please fill in [this survey](#) to share your thoughts.



NCI User Account Recertification

In Q2 all NCI users will be required to update their account passwords and acknowledge current terms and conditions of access. Watch your inbox for more information from 1 April.



Collaborative Conference on Computational and Data Intensive Science 2019

[C3DIS 2019](#)

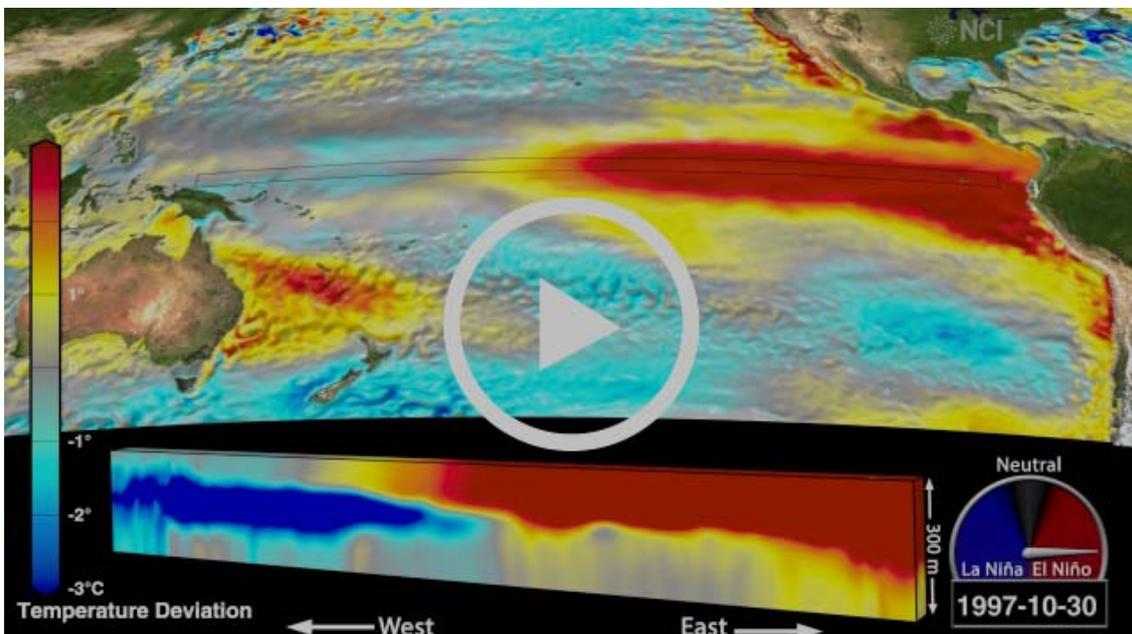
6 – 10 May 2019

National Convention Centre, Canberra

Early Bird [Registration](#) closes Monday 8 April.

C3DIS aims to build a national community of practice of scientists, researchers, and computing, data and information management specialists from publicly funded Australian research organisations. NCI is proud to sponsor the C3DIS conference and support this important annual event for the Australian computational science community.

Extraordinary animation reveals ocean's role in El Niños



The Bureau of Meteorology has raised its El Niño forecast to a 70% chance of developing in 2019. NCI explained the well-known climate pattern in this visualisation produced in 2016 with the ARC Centre of Excellence for Climate System Science.

[Access NCT's User](#)**Contact the NCT User Support Team**help.nci.org.au

Every month, NCI's User Services Team updates Raijin's software. This month, 29 new and updated applications were installed, including:

- ansys/2019r1
- mathematica/11.3.0
- openmpi/4.0.0

See the full list [here](#).



Every month, NCI's Data Collections Management Team publishes new data sets. This month, 3 new data sets were published:

- Oceanic carbon-13 and nitrogen-15 isotopes simulated by CSIRO Mk3L-COAL version 1.0 (available on THREDDS)
- eReefs GBR4 BGC and sediments model data (2 new datasets available on THREDDS)
- GEOGLAM Global Agricultural Monitoring collection (now available on both GSKY and THREDDS)

You can find additional information in the [NCI data catalogue](#).

