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NCI eNewsletter August 2023

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August 2023

nci.org.au

Dear NCI users,

Welcome to the August edition of the NCI newsletter! A number of major activities are happening over the next few months, including significant events and opportunities for users.



[Supercomputing Asia 2024](#) is gearing up to be a landmark event. We've started to announce the plenary speaker lineup, with international experts joining us in Sydney from 19-22 February. Delegates from across the Asia-Pacific region and the globe will gather to share insights on cutting-edge technologies and HPC, AI, Data and Quantum Computing trends shaping the future of our industry.

Researchers looking to harness the power of NCI's supercomputing resources can now submit their proposals for [NCMAS 2024](#). NCMAS provides Australian researchers access to world-class computational facilities to push the boundaries of scientific discovery. Applications close on the 3rd of October.

Congratulations to all the Eureka Prize winners announced recently for their exceptional contributions to science and innovation. We are proud to support Australian researchers, including [Dr Minh Bui](#) from ANU, who continue to push innovative technologies forward. The discoveries you make are the reason facilities like ours exist.

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engage with leading experts in the earth sciences and discuss where the fields are going in the future.

This month, we're highlighting a story focused on the [data infrastructure](#) that Australia's climate scientists need. By harnessing these resources, researchers are enhancing our understanding of droughts and floods, ultimately leading to more informed decision-making and sustainable practices.

Kind regards,
Sean – NCI Director

SCA 2024

Supercomputing Asia

Gathering the **Best of HPC** in Asia

SCA24 Session Proposal Call

SCA2024 talks present high-quality original research, technical breakthroughs, compelling discoveries, and leading-edge science discovery and advancements in high-performance computing, networking, storage, AI, quantum simulation and domain science application areas. Please consider submitting a session proposal in the following fields:

- Scalable AI and Data Science
- High-performance computing algorithms
- High-performance Data and Storage
- High-performance architecture design and networks

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- Domain science applications
- Scientific and/or Data Visualization

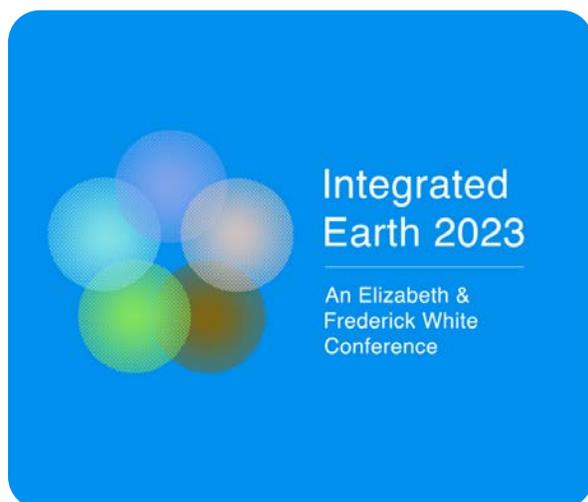
Submissions are accepted via the [event website](#). Be quick, the technical session proposal call closes this Friday the 8th of September!



NCMAS now open

The National Computational Merit Allocation Scheme is now accepting application submissions. Unlock unparalleled opportunities with Australia's leading grant scheme for accessing HPC resources.

[Learn More](#)



Attend Integrated

Earth online

Integrated Earth 2023 will bring together scientists from across the five Earth science spheres to identify opportunities for data integration and scientific collaboration. Sessions will be streamed online on 12-13 September.

[Register here](#)



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Eureka prize for

evolution tracking tool

Congratulations to NCI user Dr Minh Bui for receiving the Eureka Prize for Excellence in Research Software. His IQ-TREE2 software has been used around the world to track COVID variant evolution and much more.

[Learn More](#)



Update to Copernicus Australasia Regional Data Hub

From October 2023 until mid-2024, Geoscience Australia will be undertaking major upgrades to migrate the Copernicus Hub to the new Copernicus Data Space Ecosystem platform in Europe. Disruptions to data access are expected during this time.

[Learn More](#)

Recent Highlights



Providing the data

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Australia's climate scientists need

Australian climate researchers are drawing on the rich data collections available at NCI to improve our understanding of droughts and floods.

[Learn More](#)

Upcoming Training

Skills sharpening training sessions for NCI users are now available through to the end of August. These fill up fast, so get in quick to reserve your spot in an upcoming session! **Registration is essential.**

Registration details and all upcoming NCI training sessions are listed on our [NCI Training and Educational Events](#) page.

Upcoming sessions include:

- 5 September, [Intro to Machine Learning using Python: SVM & Unsupervised Learning](#)
- 12 September, [AI/ML Applications on Gadi - Natural Language Processing](#)

Service Updates

Every month, NCI's User Services Team updates the software available on Gadi with new versions and new packages.

In August, 6 new applications were

NCI's Data Collections Team manages and updates the datasets stored for use by Australian researchers.

Recently released datasets include:

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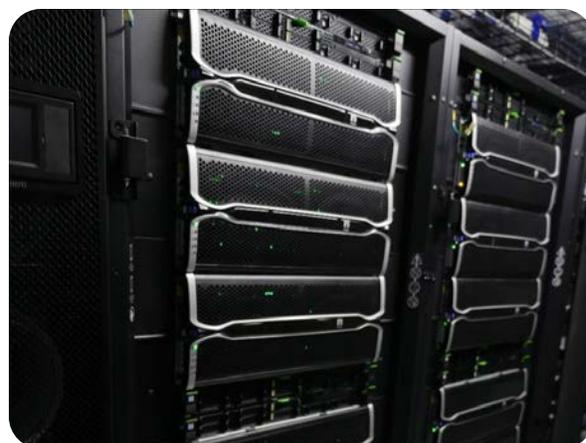
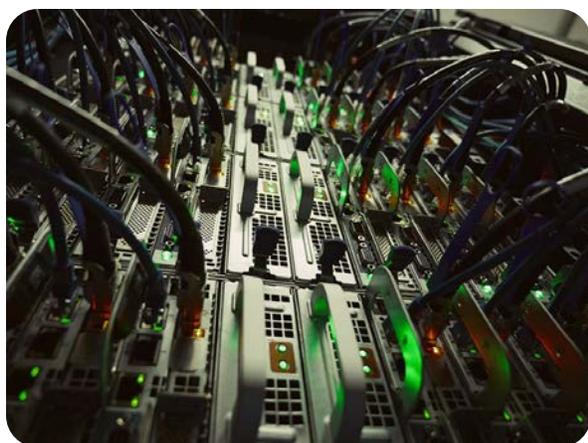
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- R/4.3.1
- vasp/6.4.2
- bedtools/2.31.0

See the full list [here](#).

- [ARC Centre of Excellence for Climate System Science Datasets Collection](#) (new datasets added)
- [ESGF CMIP6](#) (new datasets added)
- [ERA5 Replicated Datasets](#) (new products added)

See the full NCI data catalogue [here](#), and see all the monthly releases [here](#).



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