



ACCESS-NRI Scientific Advisory Committee Agenda

Thursday 27 April 2023 / 2:00 PM - 3:30 PM

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Welcome and Acknowledgement of Country

Attendance

Chair: Andy Hogg

Rapporteur: Apoorva Raghubanshi

Attended: Martin Dix, Natalia Bateman, Andrew Kiss, Rachel Law, Tilo Ziehn, Oscar Alves, Claire Carouge, Charmaine Franklin, Kelsey Druken, Roger Edberg, Claire Vincent, Paul Spence, Laurie Menviel, Ben Galton-Fenzi

Apologies: Adele Morrison, Christian Jakobs

Absent: Ben Evans

Review of previous minutes and action items

- Yi sent a document outlining the case for AUS2200 to be adopted as one of ACCESS-NRI's supported configurations. This proposal will be considered by the ACCESS-NRI Board at their June meeting. The Board's decision on AUS2200 will be reported in the next SAC meeting.
- Regarding CMIP7, a business case for the consortium is being prepared; wider community input will be sought shortly. CSIRO and ACCESS-NRI will contact DCCEEW in May to discuss the CMIP7 consortium, which will likely involve BoM and other partners. SAC members can contact Andy Hogg to be included in discussions.
- ACCESS-NRI reported that three new staff members have been hired since the previous SAC meeting; eight additional offers have been sent out to potential candidates as part of the recruitment process.

Action: ACCESS-NRI to report the progress on AUS2200 in the next SAC meeting.

Confirmation of agenda

The agenda was confirmed with no additional items.

ACCESS-NRI Updates

ACCESS-NRI Community Workshop 2023 (Kelsey Druken)

The workshop organizing committee's primary focus has been the finalization of logistics for the venue and programs. ACCESS-NRI is actively seeking volunteers from the Working Groups (WGs) for the program committee, especially from the Coupled and Earth System Modelling WG and Forecasting and Predictions WG. Once the program details are finalized, an announcement will be made to the wider community with more information about the program. Additionally, there will be training opportunities following the main program on September 8th, 2023. Options for additional support will also be provided for any WGs interested in hosting a satellite meeting.

Training Plan update (Roger Edberg)

Roger Edberg, the team lead for User Training at ACCESS-NRI, provided a comprehensive presentation on the Training Plan overview and update. The team has two other members - Jasmeen Kaur, who works on the content of the program and its execution, and Natalia Bateman, who is involved in communications and outreach.

The primary goal of the training program is to ensure coordination and support for ACCESS-NRI's model configurations, data, and tools, with a particular emphasis on consistency in training content and delivery. ACCESS-NRI also intends to develop and support training resources that leverage the expertise of both ACCESS-NRI and the broader community. Key objectives of the program include the delivery of training at ACCESS community workshops, relevant conferences, and other events that benefit the community, with a focus on soliciting feedback from stakeholders. ACCESS-NRI is also seeking opportunities to innovate and complement existing resources.

The development and support of self-guided learning resources are essential to enable users to access the content at their own pace, as needed. Peer-to-peer training activities, such as hackathons, skill-sharing sessions, events, best practices, workshops, and others, are critical components of the program. Given the User Training team's relatively small size, collaborations with external stakeholders are highly encouraged. The team operates under a community-based support model utilizing the ACCESS Hive and the forum.

It was suggested to have a webinar series featuring ACCESS-NRI team leaders providing updates on the program's activities. Moreover, a key outcome of the previous workshop was the need to document the models. To that end, ACCESS-NRI will be discussing the documentation and its direction in the next SAC meeting, and internal input will be beneficial. The attendees recommended exploring CLEX's previous work on this topic, as they have done extensive work in this area.

The presentation can be found [here](#).

Action: ACCESS-NRI to provide an overview of process on documentation at the next SAC meeting.

Update from Working Groups

Forecasting & Prediction (Martin Dix)

The Forecasting and Prediction Working Group (WG) recently held a meeting and is looking to expand its membership. They plan to reach out to individuals who may be interested in joining the group but haven't yet. Machine learning is also a focus of this WG, and there are individuals involved in this area who may be interested in participating. ACCESS-NRI aims to establish a software transformation team, which would work on machine learning and developing new methods. Funding for this team has been requested from NCRIS.

Cryosphere (Ben Galton-Fenzi)

Felicity McCormack from Monash University and Ben Galton-Fenzi are co-chairing this Working Group. They have held their first meeting, which was attended by 18 participants, with almost half being ice sheet modelers. During the meeting, the attendees expressed their interest in what ACCESS-NRI can produce. They deliberated on the mission statement and the scope of the working group, which led to productive interactions. The members concurred with the approach, with the main focus being on land-ice. Furthermore, they discussed the upcoming ACCESS-NRI workshop and expressed their desire to have a dedicated session to discuss the framework for agreeing on what an ice sheet model or ice sheet models inside ACCESS-NRI might look like. However, this will depend on the availability of funding from NCRIS. The group hopes to hold more discussions with Auscope community.

Land Surface Modelling (Claire Carouge)

The Land Working Group has been convening meetings for several months. The WG has resolved to have bi-weekly meetings, which would foster collaboration within the learning community. They will include presentations at future meetings. Given that the WG is centred around two key models, CABLE and JULES, the WG will be model agnostic. They want to be useful for the entire community and may have people who work on other parts of the land model as well. They will potentially look at a lot of model evaluations and data sets for land models.

Atmospheric Modelling (Charmaine Franklin)

The co-chairs and ACCESS-NRI liaison of the Atmosphere Working Group (WG) hold regular meetings every fortnight to discuss the progress of the group. Currently, there are 25 members who have signed up for the WG, and efforts are being made to encourage more people to join. The interests of the members are varied, with a multitude of different model configurations being utilized. The group has scheduled a kick-off meeting for May 17th to discuss various matters, including the possibility of breaking into subgroups and determining the frequency of future meetings. The WG has also drafted its terms of reference, which have been posted on the ACCESS hive page. The co-chairs have discussed the AUS2200

proposal and the upgrading of the Aus2200 configuration to the latest Met Office codebase, and have expressed support of the proposal that has been submitted to ACCESS- NRI.

[Coupled and Earth System Modelling \(Tilo Ziehn\)](#)

The co-chairs of the WG held their first meeting with the ACCESS-NRI liaison in late March to deliberate upon the strategy and structure of future meetings. On the 27th of April, the working group will convene its first community-wide meeting, during which the agenda will include an introduction to the working group, its purpose, how it will operate, and an opportunity to become acquainted with the community members involved.

[Ocean-Sea Ice Modelling \(Andrew Kiss\)](#)

The ACCESS OM3 development has the potential to be incorporated as part of the ACCESS CM3, fully coupled configuration. They have chosen a driver and Micael Oliveira has put together a build system. They will set up configuration files to make it work.

The COSIMA meetings have undergone a recent transformation, featuring a fresh format in which they are held at a range of universities. The shift has proven beneficial as it has allowed for the inclusion of more diverse speakers. The WG wants to have a satellite meeting at the ACCESS-NRI workshop.

Any Other Business

UM Partnership

The evolution of the UM Partnership has been the subject of much deliberation during the previous two UM partner board meetings. The UM partner board convenes on a quarterly basis, and the UM partnership typically spans a five-year term. The current UM partnership is scheduled to conclude by the end of March 2024. One of the major changes in the forthcoming partnership will be the transition from UM to NGMS and the accompanying newer atmospheric model.

Presently, the Bureau and CSIRO share the Australian membership of the UM Partnership. The Met Office is planning a joint meeting with the Australian groups (Bureau, CSIRO, and ACCESS-NRI) to discuss the future of the partnership.

Publishing minutes of this meeting

It was announced that going forward, the SAC meeting minutes will be made public. SAC members will have a week to comment or request changes to the minutes. The minutes will be put on the ACCESS Hive.

Action: ACCESS-NRI to set up a channel to share the minutes of the SAC meeting.

Action: Natalia Bateman to send out a notice about UM users workshop.

Next Meeting

The next SAC meeting will be held on 22nd June 2023 via Microsoft Teams.

Action List

- ACCESS-NRI to report the progress on AUS2200 in the next SAC meeting.
- ACCESS-NRI to provide a documentation sample and have a discussion on it in the next SAC meeting.
- ACCESS-NRI to set up a channel to share the minutes of the SAC meeting.
- Natalia Bateman to send out a notice about UM users workshop.