

# ACCESS-NRI Scientific Advisory Committee Meeting Minutes #17

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Thursday 20<sup>th</sup> June / 2.00 PM – 3.30 PM

## Attendees

**Chair:** Andy Hogg

**Rapporteur:** Natalia Bateman

**Members:** Kelsey Druken, Martin Dix, Rachel Law, Ben Evans, Laurie Menviel, Tilo Ziehn, Charmaine Franklin, Simon Alexander, Ariaan Purich, Adele Morrison, Lenneke Jong (AAD)

**Observers:** Victoria Allen, Natalia Bateman, Dougie Squire

**Apologies:** Claire Vincent, Lauren Vieira, Oscar Alves

## Welcome & Acknowledgment of Country

Andy introduces Lenneke Jong from AAD.

## Item 2: Previous Minutes of SAC Meeting 9th May

The previous minutes have been approved and uploaded on the [ACCESS-NRI website](#).

## Item 3: Matters Arising from May SAC Meeting

Action: A16.1 – Add ESM1.6 feedback topic to HIVE for discussion. (Complete, [see HERE](#))

Action: A16.2 – ACCESS-NRI to send out information on Momentum Users Workshop – (possible ESMValTool presentation) Done.

## Item 4: ACCESS-NRI Updates

- The upcoming OMO Workshop meeting July 2-4 in Canberra organised by ACCESS-NRI and IMOS and COSIMA
- Communication about the ACCESS Workshop breakout topics (first week of September) at the Shine Dome.
- Collaboration agreement has been executed, legal agreements to sign with approval from the department and Board for new partner (Australian Antarctic Division) almost ready.

### 4.1 ACCESS-NRI Draft Workplan for 2024-25

Last year ACCESS-NRI released a public workplan for the financial year. This plan was constructed to provide intentions to the community, and to help provide direction to ACCESS-NRI team members. The workplan is consistent with (but provides more detail than) the KPIs we submit to NCRIS each year.

## Update on the 2023-2024 Work Plan & Outline of 2024-2025 Work Plan

### Questions

- Can ACCESS-NRI help develop a regional ocean-atmosphere coupled model in 24/25 in partnership with W21C?
- What would this coupled ocean/atm regional model acronym be?

### Comments

- The name ACCESS-R is problematic as that is a (now retired) Bureau model
- Could ACCESS-RM3 model be renamed to ACCESS-ARM3?
- Coupled regional model could be ACCESS-CRM3?
- SAC members to share news for community feedback, taking into account that the work plan is still quite broad.
- There was a question over whether support is for the general nesting suite, or a specific configuration. The intention is to support the general use of the nesting suite, and offer a small selection of configurations to users for training exercises.

### ACTION A17.1: AH to discuss regional atmosphere modelling plan with the Atmosphere Working Group with a view to better explaining our intentions and understanding community needs.

- The committee were asked for feedback on areas of work, priorities and any potential gaps in the 2024-25 work plan by the deadline of 28 June. SAC would like to receive regular updates on things that are almost ready to release (other than full releases)
- Is a Regional Coupled configuration on the plans for next year? AH: It is not in the plan because we don't yet know the scale or user needs.
- Investigating sea ice boundary conditions could perhaps be done in parallel to working out global coupling?

### ACTION A17.2: Set up a meeting to discuss the regional coupled process with W21C (Andy Hogg)

## 4.2 CMIP7 update

- Steady progress with AM3 and CM3, and scope for ESM 1.6 - agreement in the next month or so.
- Starting to think about the next 12 months, including evaluation strategy and data management plans.
- Consortium Progress: NESP project – BoM Contribution
- Permission to recruit Land Modeller for CABLE through CSIRO.
- Oversight committee for the resources proposal on the Consortium.

### 4.3 Presentation from ACCESS-NRI Ocean Modelling Team

- Brief on OM3 developed
- Upgraded from MOM 5 to 6, new components, new coupler NUOPC/CMEPS, added JRA55 do date atmosphere and building block for ACCESS-CM3
- Currently working on 6 configurations: with waves (2) and without waves (4).
- ACCESS-OM3 infrastructure/tools, modernising it with CMake and Spack, automated testing, CI testing and use of peripheral tools to make it more reproducible.
- Team members have recently joined the CICE consortium and another will soon join the MOM consortium.
- WOMBAT Development
- The community are working on wave-ice coupling.
- ACCESS-OM3 Performance (0.25 degree) – very relevant for CMIP.

#### Short Term Plans

- 0.25 Config, automated model, source code management, CICE C-grid and port science developments into rewritten WOMBAT.
- Tests at 1 degree ocean needed to see if possible? 0.25 will provide a template for the 1 degree and be much faster.
- There are a series of issues raised on the science modelling of the simulations to make progress on optimising the ocean parameters. See <https://github.com/COSIMA/access-om3/issues>

## Item 5: Update from Working Groups

### Forecasting & Prediction

- No WG meeting since the last SAC meeting.
- All members are attending the Momentum workshop this week, with relevant material on AI and software transformation.

### Atmospheric Modelling

- Monthly meeting held last week, science and a technical presentation (Matt Woodhouse). Good discussion and he has changed the way he uses the UM.
- Would like more student participation - trying for them to give a presentation in the WG for students.

### Coupled and Earth System Modelling

- Recently held ESM Working group meeting.
- Becoming harder to find science talks for the future, however there are good discussions and numbers, despite a lack of students.

### Ocean-Sea Ice Modelling

- OMO workshop coming up and discussions about ethics.
- Working on informing people what COSIMA is and our expectations.
- Have had some difficult discussions about who owns simulations, etc.

### Land Surface

- In discussions regarding evaluation toolsets.

## Cryosphere

- Mike Tetley is the new liaison.
- New Ice-sheet model program to build in the coming years!

## Item 6: Any Other Business

Feedback from the committee on how the SAC can be more effective.

- How can we enhance what we are doing here?
- We need to do a quick survey, continue the same?
- Should it be slightly out of ACCESS- NRI by having an independent chair?

### *Comments*

- SAC do not feel it is necessary to have an independent chair.
- Have a think about the role of indigenous anywhere? It will be an NDRI discussion coming up.
- How can we involve our indigenous Board member?
- Is the internship program a possibility to target indigenous students?
- SAC provides a lot of important information sharing.
- SAC could give clarity of what you need input on, provide scientific advice to better learn from each other.
- More connection between Board and SAC meetings?
- Please get in touch if you have suggestions.

## Item 7: Next Meeting

1 August 2024 2.00pm - 3.30pm

End of meeting.