# An operational long-range cyclone forecasting system for the Bureau of Meteorology

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Earlier work by Camp et. al (2018) on the preliminary ACCESS-S1 hindcast showed the model had multi-week skill in forecasting cyclone formation in the Southern Hemisphere. This was attributed to the model correctly simulating large scale changes in the atmosphere with the phase of the MJO. Continuing this work on the full hindcast showed monthly variation in forecast cyclone biases during the cyclone season. Results for the 2017-18 season are presented showing the effect of monthly bias correction and lagged ensembles. These are compared against 10-day forecasts generated by ACCESS-GE over the same period. A proposed operational system combining both ACCESS-S1 and GE is presented which will run in real-time during the 2018-19 season.

# References

J Camp, MC Wheeler, HH Hendon, P Gregory, AG Marshall, KJ Tory, AB Watkins, C MacLachlan, Y Kuleshov, Skilful multiweek tropical cyclone prediction in ACCESS‐S1 and the role of the MJO, Quarterly Journal of the Royal Meteorological Society, February 2018, https://doi.org/10.1002/qj.3260