

Bureau Research Report (BRR) series index list

All reports in the Bureau Research Report (BRR) series are listed in this document. They are ordered by publication date, from newest to oldest. Each citation includes a permalink to access the document from the National Library of Australia.

This document was last updated 10 September 2026.

2026

Zidikheri, M. & Rennie, S. (June, 2026)

Use of short-range ACCESS-GE forecasts to improve data assimilation in ACCESS-A

Bureau Research Report No. 127

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-4252661178>

Bierman, P. & Spillman, C. (June, 2026)

Considerations for the development of a coastal erosion warning service

Bureau Research Report No. 126

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-4252659229>

Hansen, J., Derkani, M., Zieger, S., Khan, S. S., & Greenslade, D. (May, 2026)

Proceedings of the 4th Australia and New Zealand Wind Waves Symposium, 17–18 November 2025, Perth, Western Australia

Bureau Research Report No. 125

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-4252658853>

Su, C. & Yan, H. (April, 2026)

Enhancing sub-daily temperature fields from Australian atmospheric reanalysis using daily gridded observational analyses

Bureau Research Report No. 124

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-4250733337>

Zhu, H., Hudson, D. & Lavender, S. (March, 2026)

Improved tropical cyclone forecasts with CoMorph-A: Physical insights from TC-Kirrily



Bureau Research Report No. 123
Bureau of Meteorology, Melbourne, Victoria
<https://nla.gov.au/nla.obj-4195631503>

Esperson, F. & Trotta, B. (February, 2026)

Machine-learned forecasting and postprocessing: probabilistic calibration of AIFS forecasts with RainForests

Bureau Research Report No. 122
Bureau of Meteorology, Melbourne, Victoria
<https://nla.gov.au/nla.obj-4195629095>

Rennie, S. (February, 2026)

Evaluating the impact of assimilating Mode-S aircraft observations in ACCESS-A

Bureau Research Report No. 121
Bureau of Meteorology, Melbourne, Victoria
<https://nla.gov.au/nla.obj-4172131654>

Samrat, N. H., Smith, F. & Smith, A. (February, 2026)

Clear-sky FY-3E MWHS-2, FY-3E MWTS-3, and GPM/GMI radiances assimilation in the Bureau global NWP system

Bureau Research Report No. 120
Bureau of Meteorology, Melbourne, Victoria
<https://nla.gov.au/nla.obj-4172130741>

2025

Smith, F., Samrat, N. H., Lane, A., Smith, A. & Tingwell, C. (December, 2025)

Mission requirements document for an Australian microwave satellite sounding instrument

Bureau Research Report No. 119

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-4172130205>

Hasan, M. M., Ebert, E. & Khanarmuei, M. (September, 2025)

NWP QPFs accuracy analysis through comparative performance assessment of AWAP, AGCD and GPM-IMERG against gauge observations

Bureau Research Report No. 118

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-4097940414>

Franklin, C., Cooper, S., Roux, B., Lipson, M., Wales, S., et al. (August, 2025)

ACCESS-A: development of the pan-Australia convective-scale numerical weather prediction model

Bureau Research Report No. 117

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3935768540>

Jakob, D., Gregory, R., Zhang, X., Griesser, A., Rogers, C., et al. (July, 2025)

Climate hazard information developed for use in climate risk assessment

Bureau Research Report No. 116

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3935786392>

Zidikheri, M., & Rennie, S. (June, 2025)

Comparing the performance of ACCESS-A against ACCESS-C4 using gridded verification data

Bureau Research Report No. 115

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3769638561>

Howard, E., Su, C., Stassen, C., Ye, H., Lipson, M., et al. (June, 2025)

BARPA-C: Trialling of convection permitting regional climate modelling for the Australian Climate Service

Bureau Research Report No. 114

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3769638536>

Cooper, S., Rennie, S., Bridge, C., Franklin, C., Dietachmayer, D., et al. (May, 2025)

APS3 ACCESS city ensemble

Bureau Research Report No. 113

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3769638138>

Owen, B., Trotta, B., Whelan, J., Mentiplay, D., Abellan, E., Johnson, R., et al. (April, 2025)

Improving post-processing of deterministic models via fuzzy thresholding – a report on IMPROVER Release 6

Bureau Research Report No. 112

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3704092684>

Zidikheri, M., Krysta, M., Rennie, S. & Steinle, P. (April, 2025)

Assessing the impact of large-scale blending on the Bureau's NAS and ACCESS-A regional forecasting models

Bureau Research Report No. 111

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3704127455>

Henrichs, J., Lyu, J., Greenslade, D. J. M. & Allen, S. C. R. (March, 2025)

Future-proofing the MOST tsunami model using the PSyclone domain-specific language

Bureau Research Report No. 110

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3661992635>

Hague, B., & Udy, D. (March, 2025)

Sea level datasets for coastal hazard assessment and informing adaptation: a how-to guide

Bureau Research Report No. 109

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3661992372>

Hudson, D., Shi, L., Zhou, X., Yin, Y., Wheeler, M., Mayer, M., et al. (March, 2025)

Persistent model biases in the tropical eastern Indian Ocean region: a seasonal prediction system intercomparison

Bureau Research Report No. 108

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3661992111>

Ebert, E., & Pagano, T. (March, 2025)

Forecast verification and performance assessment framework

Bureau Research Report No. 107

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3661991851>



Morisseau, H., Zhu, H., Hudson, D. & de Burgh-Day, C. (February, 2025)

Object-oriented verification of TC-Jasper rainfall forecasts: machine learning model versus physical models

Bureau Research Report No. 106

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3603384794>

Gregory, P., & Pickett-Heaps, C. (February, 2025)

Improvements to the AFDRS seasonal outlook using calibrated soil moisture and grass curing forecasts

Bureau Research Report No. 105

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3596932163>

Taggart, R., M., Griffiths, Wheeler, M. C. & Spillman, C., M. (January, 2025)

Ensemble transformations for consistency with a target forecast and its application to seamless weather to subseasonal forecasting

Bureau Research Report No. 104

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3542297463>

2024

Bridge, C., Rennie, S., Steinle, P., Frost, A., Warwick, G., et al. (November, 2024)
Can an Agricultural Mesonet Improve Numerical Weather Prediction Forecast Quality?
Bureau Research Report No. 103
Bureau of Meteorology, Melbourne, Victoria
<https://nla.gov.au/nla.obj-3502292939>

Krysta, M., Steinle, P., Rennie, R., Lee, J., Dharssi, I., et al. (November, 2024)
National Analysis System
Bureau Research Report No. 102
Bureau of Meteorology, Melbourne, Victoria
<https://nla.gov.au/nla.obj-3488745115>

Zaman, W., Evans, A., Frost, A., Trewin, B., Jones, D. (October, 2024)
A new gridded daily temperature analysis scheme for Australia
Bureau Research Report No. 101
Bureau of Meteorology, Melbourne, Victoria
<https://nla.gov.au/nla.obj-3446940286>

Benger, N., Griesser, A. & Evans, A. (September, 2024)
A class-y approach to assessing future bushfire risk
Bureau Research Report No. 100
Bureau of Meteorology, Melbourne, Victoria
<https://nla.gov.au/nla.obj-3433933603>

Lucas, C. (September, 2024)
The 17 April 2024 Eruption of Ruang: Analysis and Dispersion Modelling using DEPS-2
Bureau Research Report No. 099
Bureau of Meteorology, Melbourne, Victoria
<https://nla.gov.au/nla.obj-3433933349>

Samrat N. H., Smith, F., Smith, A., Villani, V. (September, 2024)
Preliminary evaluation of thinning for dense satellite radiance observations assimilated in the ACCESS-C: Darwin Domain case study
Bureau Research Report No. 098
Bureau of Meteorology, Melbourne, Victoria
<https://nla.gov.au/nla.obj-3419067566>

Su, C., Rennie, S., Torrance, J., Howard, E., Stassen, C., et al. (August, 2024)
BARRA-C2: Development of the kilometre-scale downscaled atmospheric reanalysis over Australia
Bureau Research Report No. 097
Bureau of Meteorology, Melbourne, Victoria
<https://nla.gov.au/nla.obj-3418798916>

Black, M., Jakob, D., Jones, D., Matear, R., Ramsay, H., et al. (May, 2024)

Acute hazards in a future climate: guidance provided to the Australian Prudential Regulation Authority – An updated assessment based on the CMSI Science Report and further expert judgement

Bureau Research Report No. 096

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3337167206>

Pagano, T. C. & Newham, P. (May, 2024)

Assessing the representativeness of in situ wind observations for use in weather forecast verification

Bureau Research Report No. 095

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3335973180>

Gregory, P., Bengert, N., Jacobs, H., Ye, H., Wang, W., et al. (May, 2024)

The Australian Fire Danger Rating System Seasonal Outlook Service

Bureau Research Report No. 094

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3339381234>

Trotta, B., Canvin, J., Gale, T., Hume, T., Johnson, R., et al. (March, 2024)

An initial benchmarking of IMPROVER. Part 2, Evaluation of precipitation diagnostics

Bureau Research Report No. 093

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3309932929>

Owen, B., Canvin, J., Gale, T., Hume, T., Johnson, R., et al. (March, 2024)

An initial benchmarking of IMPROVER. Part 1, Evaluation of non-precipitation diagnostics

Bureau Research Report No. 092

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3309931792>

Zidikheri, M., Steinle, P. J., Xiao, Y. & Abellan, E. (March, 2024)

An objective evaluation of the Bureau's ACCESS-GE4 global ensemble model

Bureau Research Report No. 091

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3298708975>

Frost, A., Shokri, A. & Fox-Hughes, P. (February, 2024)

Spatial grassland and savanna curing seasonal prediction for input into the Australian Fire Danger Rating System

Bureau Research Report No. 090

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3291890697>



Bridge, C., Steinle, P., Rennie, S., Frost, A., Grace, D., et al. (February, 2024)

*Assessing the Quality of Automatic Weather Station Observations from an
External Provider for Data Assimilation Purposes*

Bureau Research Report No. 089

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3482514725>

2023

Sharple, W. & Baron-Hay, S. (November, 2023)

Generating surface wind grids

Bureau Research Report No. 088

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3266581834>

Dowdy, A., (October, 2023)

A bias correction method designed for weather and climate extremes

Bureau Research Report No. 087

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3243228235>

Stassen, C., Su, C., Dowdy, A., Franklin, C., Howard, E., et al. (September, 2023)

Development and Assessment of Regional Atmospheric Nudging in ACCESS

Bureau Research Report No. 086

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3233871311>

Warne, J., Nicholls, L., Chittleborough, J., Mitchell, B., Smith, G., et al. (September, 2023)

Absolute sea level in the Pacific : data and methodology

Bureau Research Report No. 085

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3228669248>

Su, C., Rennie, S., Torrance, J., Dharssi, I., Tian, S., et al. (August, 2023)

Preliminary assessment of regional moderate-resolution atmospheric reanalysis for Australia

Bureau Research Report No. 084

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3213622564>

Lucas, C., Wheeler, M. C., Nguyen, H., Watkins, A. B., Chua, Z., et al. (August, 2023)

Revising the Bureau's ENSO Alert System: Adapting Indices in a Changing Climate

Bureau Research Report No. 083

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3212614621>

Griffiths, M., Smith, P., Yan, H., Spillman, C., Young, G., et al. (May, 2023)

ACCESS-S2: Updates and improvements to postprocessing pipeline

Bureau Research Report No. 082

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3170979917>

de Burgh-Day, C. & Taggart, R. (May, 2023)

A computationally efficient method for fitting smooth parameterized curves to precipitation distributions

Bureau Research Report No. 081

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3168685287>

Benson, S. & Krysta, M. (April, 2023)

Generation of Background Error Covariances for ACCESS-C

Bureau Research Report No. 080

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3160939708>

Taggart, R. (March, 2023)

Estimation of CRPS for precipitation forecasts using weighted sums of quantile scores and Brier scores

Bureau Research Report No. 079

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3160938615>

Rennie, S. (March, 2023)

Radar data assimilation upgrades for APS4

Bureau Research Report No. 078

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3160937064>

Dowdy, A. & Brown, A. (March, 2023)

Environmental indicators for thunderstorms, lightning and convective rainfall

Bureau Research Report No. 077

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3160936516>

Greenslade, J. & Gregory, P. (March, 2023)

Towards an improved Bureau Seasonal Cyclone Outlook

Bureau Research Report No. 076

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3152153536>

Narsey, S., Risbey, J., Jakob, D. & Grose, M. (February, 2023)

Perspectives on the Feb-Mar 2022 east coast extreme rainfall event

Bureau Research Report No. 075

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3151339483>



Aijaz, S., Brassington, G. B., Divakaran, P., Régnier, C., Drévillon, M., et al. (January, 2023)

Global ocean Eulerian currents verification and intercomparison, 2018-2020

Bureau Research Report No. 074

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3149095191>

Jakob, D., Black, M., Bengner, N., Grose, M., Hague, B., et al. (January, 2023)

A review of existing climate portals

Bureau Research Report No. 073

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3147239910>

2022

Nguyen, H., Lucas, C., Wheeler, M. & Watkins, A. (December, 2022)

Summary of a workshop on ENSO/IOD alert systems for a warming world held 16-17 August 2022

Bureau Research Report No. 072

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3136569121>

Griffiths, D. & Jayawardena, A. (November, 2022)

AutoFcst: A coherent set of forecast grids

Bureau Research Report No. 071

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3124903683>

Benson, S., Krysta, M. & Bannister, T. (September, 2022)

Evaluating the Advantages and Challenges of the National Analysis System

Bureau Research Report No. 070

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3108785168>

Su, C., Stassen, C., Howard, E., Ye, H., Bell, S. S., et al. (September, 2022)

BARPA: New development of ACCESS-based regional climate modelling for Australian Climate Service

Bureau Research Report No. 069

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3105407656>

Lim, E., Boschhat, G., Rudeva, I. & Lucas, C. (September, 2022)

A review of Antarctic stratospheric ozone trends and variability and their impacts on surface climate

Bureau Research Report No. 068

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3105274914>

Su, C., Rennie, S., Dharssi, I., Torrance, J., Smith, A., et al. (August, 2022)

BARRA2: Development of the next-generation Australian regional atmospheric reanalysis

Bureau Research Report No. 067

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3100682359>

Zhou, X. & Alves, O. (July, 2022)

Evaluating Sea Ice in ACCESS-S2

Bureau Research Report No. 066

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3092878920>

Pickett-Heaps, C. A., Vogel, E. (July, 2022)

Seasonal Hydrological Ensemble Forecasts for Australia using AWRA-L – Hindcast Verification Report

Bureau Research Report No. 065

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3092958124>

Taggart, R. (June, 2022)

Assessing calibration when predictive distributions have discontinuities

Bureau Research Report No. 064

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3079961862>

Cowan, T., Wheeler, M. C., Hudson, D., de Burgh-Day, C., Griffiths, M., et al. (June, 2022)

Skill of ACCESS-S2 in predicting rainfall bursts over Australia

Bureau Research Report No. 063

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3078157595>

Poulsen, C. & Majewski, L. (May, 2022)

Gridded satellite solar observations project: Implementation of Heliosat-4 and the application of bias correction

Bureau Research Report No. 062

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3068135729>

Srikanthan, S., Bende-Michl, U., Wilson, L., Sharples, W., et al. (April, 2022)

National Hydrological Projections - design and methodology

Bureau Research Report No. 061

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3052219089>

Azarnivand, A., Sharples, W., Bende-Michl, U., Shokri, A., et al. (February, 2022)

Analysing the uncertainty of modelling hydrologic states of AWRA-L – understanding impacts from parameter uncertainty for the National Hydrological Projections

Bureau Research Report No. 060

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3031304184>

2021

Schulz, E., Sisson, J. & Beggs, H. (September, 2021)

Quality control procedure for IMOS real-time meteorological and sea surface observations, and air-sea fluxes from research vessel and mooring platforms

Bureau Research Report No. 059

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-2999628455>

Frost, A., Shokri, A., Azarnivand, A. & Keir, G. (September, 2021)

Spatial root choke prediction modelling for Sydney Water: Technical report describing methodology and results

Bureau Research Report No. 058

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-3004919405>

Su, C., Ye, H., Dowdy, A., Pepler, A., Stassen, C., et al. (July, 2021)

Towards ACCESS-based regional climate projections for Australia

Bureau Research Report No. 057

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-2984879777>

Bell, S., Chand, S., Dowdy, A., Ramsay, H., Deo, A., et al. (July, 2021)

Australian tropical cyclone-induced extreme coastal winds in climate datasets

Bureau Research Report No. 056

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-2982758183>

Dowdy, A., Brown, A., Pepler, A., Thatcher, M., Rafter, T., et al. (July, 2021)

Extreme temperature, wind and bushfire weather projections using a standardised method

Bureau Research Report No. 055

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-2982654569>

McKay, R., Boschat, G., Rudeva, I., Dowdy, A., Rauniyar, S., et al. (July, 2021)

A review of the observed changes in the Southern Hemisphere circulation and their links to rainfall changes in south-eastern Australia

Bureau Research Report No. 054

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-2985636544>



Rudeva, I., Boschat, G., McKay, R., Pepler, A., Dowdy, A., et al. (July, 2021)

Weather systems related to wet and dry extremes

Bureau Research Report No. 053

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-2976467541>

de Burgh-Day, C. & Francis Dillon, F. (July, 2021)

A hybrid parametrisation for precipitation probability of exceedance data

Bureau Research Report No. 052

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-2976466688>

Zieger, S. & Greenslade, D. J. M. (May, 2021)

A multiple-resolution global wave model – AUSWAVE-G3

Bureau Research Report No. 051

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-2956828743>

2020

Taggart, R. (December, 2020)

Point forecasts and forecast evaluation with generalised Huber loss

Bureau Research Report No. 050

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-2896814672>

Jakob, D., Osburn, L., Hope, P. & Smith, L. (November, 2020)

Short-duration, heavy rainfall is intensifying, but not everywhere, and not all the time – A literature review

Bureau Research Report No. 049

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-2886804278>

Zhu, H., Wang, G., Ebert, B., Greenslade, D., de Burgh-Day, C., et al. (November, 2020)

A Land of Storms, Floods and Bushfires: Seamless and Integrated Forecasting – Abstracts of the Bureau of Meteorology Annual R&D Workshop, 23 November to 26 November 2020, Melbourne, Australia

Bureau Research Report No. 048

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-2986065014>

Rennie, S. (October, 2020)

Direct Assimilation of Radar Reflectivity from Australian Dual-Polarisation radars

Bureau Research Report No. 047

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-2885001438>

Velasco-Forero, C., Pudashine, J., Curtis, M. & Seed, A. (September, 2020)

STEPS3 – ADV – VERIFICATION REPORT

Bureau Research Report No. 045

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-2848086642>

Brown, J., Colman, R., Narsey, S. & Moise, A. F. (July, 2020)

Sensitivity of Australian Monsoon Rainfall to Aerosol Direct and Indirect Effects under a Range of Emission Scenarios

Bureau Research Report No. 044

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-2821916623>

Smith, G. & Spillman, C. (May, 2020)

Ocean Temperature Outlooks – Coral Bleaching Risk: Great Barrier Reef and Australian waters

Bureau Research Report No. 043

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-2786078818>

de Burgh-Day, C., Hudson, D., Alves, O., Griffiths, M., Yan, H., et al. (April, 2020)

An adaptable framework for development and real time production of experimental sub-seasonal to seasonal forecast products

Bureau Research Report No. 042

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-2578855617>

Evans, A., Jones, D., Smalley, R. & Lellyett, S. (February, 2020)

An enhanced gridded rainfall analysis scheme for Australia

Bureau Research Report No. 041

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-2786078795>

2019

Greenslade, D., Majewski, L., Ashcroft, L., Brown, J., Chung, C., et al. (November, 2019)

Forecasting for the Future: New science for improved weather, water, ocean and climate services – Abstracts of the Bureau of Meteorology Annual R&D Workshop, 25 November to 28 November 2019, Melbourne, Australia

Bureau Research Report No. 040

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-2115930050>

Greenslade, D. J. M. & Allen, S. C. R. (October, 2019)

On the optimal amplitude thresholds for tsunami warning

Bureau Research Report No. 039

Bureau of Meteorology, Melbourne, Victoria

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