

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 7 April 2026.

2026

Rennie, S. (February, 2026)

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

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<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

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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

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<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

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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

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<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

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

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

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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

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Bureau of Meteorology, Melbourne, Victoria

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

APS3 ACCESS city ensemble

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<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

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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

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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

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Bureau of Meteorology, Melbourne, Victoria

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

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

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Bureau of Meteorology, Melbourne, Victoria

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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

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

Forecast verification and performance assessment framework

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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

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<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

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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

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Bridge, C., Rennie, S., Steinle, P., Frost, A., Warwick, G., et al. (November, 2024)
Can an Agricultural Mesonet Improve Numerical Weather Prediction Forecast Quality?
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Krysta, M., Steinle, P., Rennie, R., Lee, J., Dharssi, I., et al. (November, 2024)
National Analysis System
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Zaman, W., Evans, A., Frost, A., Trewin, B., Jones, D. (October, 2024)
A new gridded daily temperature analysis scheme for Australia
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<https://nla.gov.au/nla.obj-3446940286>

Benger, N., Griesser, A. & Evans, A. (September, 2024)
A class-y approach to assessing future bushfire risk
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<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
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Bureau of Meteorology, Melbourne, Victoria
<https://nla.gov.au/nla.obj-3433933349>

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Preliminary evaluation of thinning for dense satellite radiance observations assimilated in the ACCESS-C: Darwin Domain case study
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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
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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

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

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

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

The Australian Fire Danger Rating System Seasonal Outlook Service

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<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

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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

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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

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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

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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

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2023

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Generating surface wind grids

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Dowdy, A., (October, 2023)

A bias correction method designed for weather and climate extremes

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

Development and Assessment of Regional Atmospheric Nudging in ACCESS

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

Absolute sea level in the Pacific : data and methodology

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Preliminary assessment of regional moderate-resolution atmospheric reanalysis for Australia

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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

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

ACCESS-S2: Updates and improvements to postprocessing pipeline

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

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

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

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

Generation of Background Error Covariances for ACCESS-C

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Taggart, R. (March, 2023)

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

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

Towards an improved Bureau Seasonal Cyclone Outlook

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

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

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

Global ocean Eulerian currents verification and intercomparison, 2018-2020

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

A review of existing climate portals

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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

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AutoFcst: A coherent set of forecast grids

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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

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

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

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

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

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

Evaluating Sea Ice in ACCESS-S2

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

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

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Assessing calibration when predictive distributions have discontinuities

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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

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

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

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

National Hydrological Projections - design and methodology

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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

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

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

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

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

Towards ACCESS-based regional climate projections for Australia

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

Australian tropical cyclone-induced extreme coastal winds in climate datasets

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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

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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

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

Weather systems related to wet and dry extremes

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

A hybrid parametrisation for precipitation probability of exceedance data

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

A multiple-resolution global wave model – AUSWAVE-G3

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2020

Taggart, R. (December, 2020)

Point forecasts and forecast evaluation with generalised Huber loss

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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

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Bureau of Meteorology, Melbourne, Victoria

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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

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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

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Bureau of Meteorology, Melbourne, Victoria

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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

<https://nla.gov.au/nla.obj-1969526653>

Zeschke, B., Willmott, M., Lane A. & Rea, A. (October, 2019)

How Himawari-8 data has revolutionised the work of Bureau of Meteorology Forecasters

Bureau Research Report No. 038

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-2786078767>

Rauniyar, S., Power, S. B. & Hope, P. (September, 2019)

A literature review of past and projected changes in Victorian rainfall and their causes, and climate baselines

Bureau Research Report No. 037

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-2786078751>

Dare, R. & Potts, R. (August, 2019)

A sensitivity study of the fog fraction scheme employed in the ACCESS NWP models

Bureau Research Report No. 036

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-1760548779>


Dare, R. A., & Potts R. (August, 2019)

Sensitivity and tuning of the visibility scheme employed in the ACCESS NWP models

Bureau Research Report No. 035

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-1760527212>



Brown, A. & Dowdy, A. (August, 2019)

Extreme wind gusts and thunderstorms in South Australia analysed from 1979-2017

Bureau Research Report No. 034

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-1760499292>

Seed, A., Bell, A., Steinle, P. & Rennie, S. (May, 2019)

Forecasting Demonstration Project - Sydney 2014

Bureau Research Report No. 046

Bureau of Meteorology, Melbourne, Victoria

<https://nla.gov.au/nla.obj-2859323606>

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