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Halmar Halide

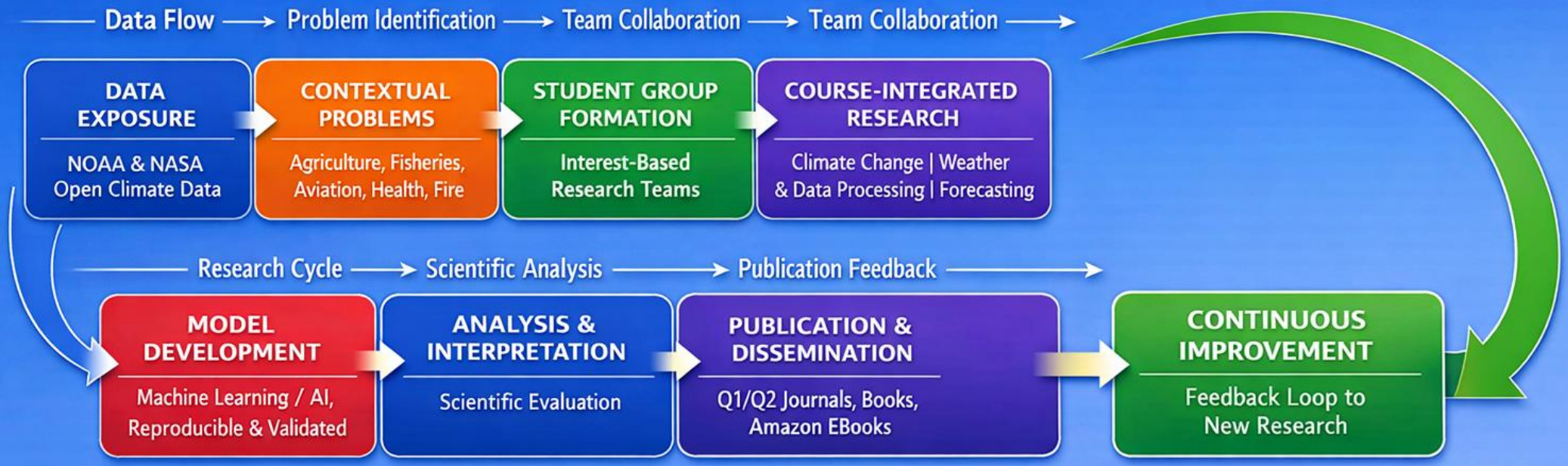
https://trg.unhas.ac.id/climatebmd/

LABORATORIUM HIDROMETEOROLOGI

DEPT. GEOFISIKA, FMIPA, UNIVERSITAS HASANUDDIN

*) Sosialisasi Penelitian bagi Dosen Pemula via Virtual Zoom Meeting, May 6th, 2026

Hydrometeorology Laboratory Research Workflow



nature.com/immersive/d41586-023-03818-5/index.html

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By Dyani Lewis

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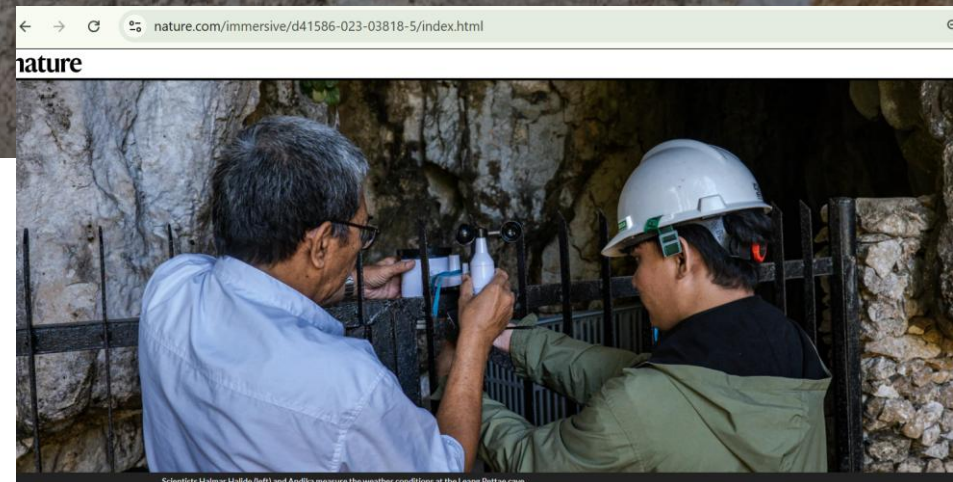
6 December 2023



nature.com/articles/s41598-022-25810-1

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Article | Open access | Published: 13 December 2022

The historical impact of anthropogenic air-borne sulphur on the Pleistocene rock art of Sulawesi

Michael K. Gagan ✉, Halmar Halide ✉, Raden Cecep Eka Permana, Rustan Lebe, Gavin B. Dunbar, Alena K. Kimbrough, Heather Scott-Gagan, Dan Zwartz & Wahyoe S. Hantoro

Scientific Reports **12**, Article number: 21512 (2022) | Cite this article

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Research Article

Indonesian Seas Circulation Linked to Mean Climate State Reversals

Sujata A. Murty, Nathalie F. Goodkin, Ellen R. M. Druffel, Alit A. Wiguna, Halmar Halide, Arnold L. Gordon

First published: 11 December 2025 | https://doi.org/10.1029/2025PA005189 | VIEW METRICS

rmets.onlinelibrary.wiley.com/doi/10.1002/joc.70357?af=R&content=articlesChapters&field1=

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International Journal of Climatology RMetS

RESEARCH ARTICLE

Analysis of the Impact of Weather Conditions on Flight Delays at Hartsfield–Jackson Atlanta International Airport (ATL) During 2013–2023

Nur Rahmania Ramadhani, Halmar Halide

First published: 29 March 2026 | https://doi.org/10.1002/joc.70357 | VIEW METRICS

LETTER OF ACCEPTANCE

15/4/2026

Dear Dr. Halide, H.

Laboratorium Hidrometeorologi, dept., Geofisika, FMIPA, Univ. Hasanuddin, Makassar - Indonesia.

I'm pleased to inform you that your paper entitled: "Modeling climate and human pressures on prehistoric rock art for conservation" **had been accepted for publication in Egyptian Journal of Archaeological and Restoration Studies *"EJARS"*. The Article is scheduled for publication in Vol. 16. No. 2 – Dec. – 2026.**

EJARS Site: http://ejars.sohag-univ.edu.eg

Prof. Dr. Mohammed A. El-Gohary
Prof. of Stones and Archaeological Buildings Conservation
Editor in Chief of Egyptian Journal of Archaeological and Restoration Studies (***EJARS***)

Halmar Halide <halmar@science.unhas.ac.id> Feb 6, 2026, 2:10 AM

to Joelle, Allison, Kavita, Whitney

Dear All,

Please find, as attached, the most recent draft on the subject. Thank you for your time.

Cheers,

halmar

WORK IN PROGRESS

Stanford Univ collaborators

Climate-Informed Forecasting and Decision-Support for Arboviral Transmission in Singapore: Integrating Statistical, Machine Learning, and Wavelet Approaches (2012–2025)

Abstract

Arboviruses such as dengue, chikungunya, and Zika pose persistent public health challenges in tropical urban environments, where transmission dynamics reflect complex interactions between intrinsic epidemiological processes and environmental variability. To support outbreak preparedness in Singapore, we developed a climate-informed forecasting and decision-support framework integrating epidemiological surveillance, meteorological observations, and large-scale climate indices from 2012–2025. Wavelet Transform Coherence (WTC) and Cross-Wavelet Transform (XWT) analyses were applied as a diagnostic screening step to evaluate whether commonly assumed climate drivers—including ENSO, humidity, and maximum temperature—exhibit persistent, interpretable precursor relationships with arboviral incidence. Despite intermittent coherence, no variable demonstrated stable or operationally reliable lead–lag behavior, motivating parsimonious forecasting structures that emphasize intrinsic temporal dynamics rather than exogenous climatic forcing. Short-term forecasts of weekly incidence up to four weeks ahead were generated using naïve persistence, multiple linear regression, and random forest models with autoregressive case histories, and evaluated using correlation and root mean square error. Forecasts were translated into an operational decision-support system through disease-specific, quartile-based risk thresholds linked to graduated public health actions. The novelty of this study lies in using wavelet analysis to *constrain* predictor selection rather than inflate model complexity, providing a transparent, reproducible framework that bridges methodological rigor with operational utility for adaptive arboviral risk management.

Hydrological Sciences Journal <onbehalfof@manuscriptcentral.com> Fri, Apr 10, 2:46 PM (10 days ago)

to syamavc25h, asriyantis25h, me, kate

10-Apr-2026

Dear Professor Halide

Manuscript title: Compound Drivers of Extreme Flood Events in Bali: Rainfall, Tides, and Waste Interactions

I would first like to apologize for the length of time required to complete this initial assessment of your manuscript. Thank you for your patience.

After careful evaluation of the contribution, I regret to inform you that I must decline publication of the manuscript in Hydrological Sciences Journal in its current form. That said, I would like to emphasize that this decision comes with an invitation to resubmit, provided that you are willing and able to commit to a substantial effort leading to a major revision of the study.

The manuscript conveys a strong, sensible, and clearly articulated overall message, and the topic is potentially relevant to the journal's readership. However, the current version suffers from several severe limitations that prevent it from meeting the standards required for publication at this stage. The main elements of concern are outlined below:

* Regime change analysis of extreme precipitation
The analysis of changing regimes in the frequency of extreme precipitation does not appear to be conclusive. In particular, the associated figure does not clearly support the claimed intensification of extremes.

* Mismatch of time scales across analyses
The time scales adopted for the different components of the analysis are inconsistent. To allow for statistically significant assessment of alterations and trends, the analyses should be conducted over sufficiently long time windows. While adequate long-term data seem to be available for rainfall (and to a lesser extent for waste generation), other components are analyzed at event scale or over very limited time intervals (e.g. tidal regime), impairing the overall coherence of the study.

S1 angk. 2023 (tiga buah paper under review)

em | AMS Journal of Climate

Ahmad Reihan | Logout

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Page: 1 of 1 (1 total revisions being processed)

Results per page 10

Action	Manuscript Number	Title	Date Submission Began	Status Date	Current Status
View Submission Author Status Send E-mail	JCLI-D-25-0642	The Impact of the Southern Annular Mode (SAM) and El Niño–Southern Oscillation (ENSO) on Iceberg Drift in the Southern Ocean	Mar 04, 2026	Mar 21, 2026	Under Review

Page: 1 of 1 (1 total revisions being proces

Results per page 10

A Hybrid Machine-Learning – EOF Framework for Long-Lead ENSO Prediction Using Ocean – Atmosphere Predictors

Under Review

Manuscript ID: **1861224** Article type: **Research Article** Publication: **International Journal of Climatology**

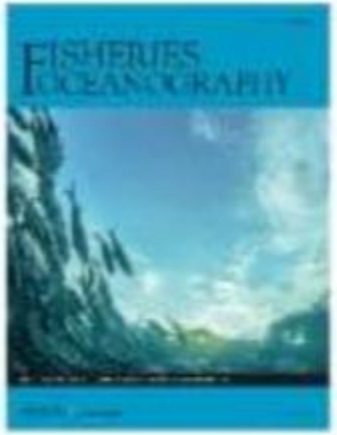
This submission is under consideration and cannot be edited. Further information will be emailed to you by the journal editorial office.

Submission Overview

Submitted 9 April 2026 by Nur Rahmania Ramadhani

Started 7 April 2026 by Nur Rahmania Ramadhani

S1 angk. 2023 (paper under review, continued)



Economic Value of Seasonal ENSO Forecasts for Indian Ocean Tuna Fisheries: A Fleet-Level Bioeconomic Value-of-Information Analysis

Under Review

Manuscript ID: **8133597** Article type: **Original Article** Publication: **Fisheries Oceanography**

This submission is under consideration and cannot be edited. Further information will be emailed to you by the journal editorial office.

Submission Overview

Submitted **1 May 2026 by Nur Rahmania Ramadhani**

Started **1 May 2026 by Nur Rahmania Ramadhani**

S1 angk. 2024

Regional Studies in Marine Science

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Submitted: 13:17, April 28, 2026

Journal: *Regional Studies in Marine Science*

Article type: VSI: OD- Fisheries& biodiversity RSMA

Title: Limited Influence of ENSO on Pelagic Fisheries in the Western and Central Pacific Ocean

Authors:

1. **Apriliandari Apriliandari** Corresponding author apriliandari24h@studen...
   Hasanuddin University Faculty of Mathematics and Natural Sciences
2. **Adhalya Amaly Azis**
   Hasanuddin University Faculty of Mathematics and Natural Sciences
3. **Sitti Aisyah** Hasanuddin University Faculty of Mathematics and Natural Sciences

Regional Studies in Marine Science

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Submitted: 15:36, April 28, 2026

Journal: *Regional Studies in Marine Science*

Article type: Research paper

Title: Relative Roles of Monsoon and ENSO in Driving Marine Heatwaves in the Banda Sea, Over the Period 2005–2024

Authors:

1. **Muhammad Dzaky Alkhairy** Hasanuddin University
2. **Abdussalam Said Al Mubarak** Hasanuddin University
3. **Yuni Yuni** Corresponding author yuni24h@student.unhas...
   Hasanuddin University

S1 angk. 2024 (tujuh paper submitted)

List Submit Paper Perubahan Iklim S1 Angkatan 2024

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1	Kelompok	Nama Anggota	Judul Paper	Nama Jurnal	Quartile	Tanggal Submit
2		Apriliandari				
3	1	Adhalya Amaly Azis	Limited Influence of ENSO on Pelagic Fisheries in the Western and Central Pacific Ocean	Regional Studies in Marine Science	Q1	28 April 2026
4		Sitti Aisyah				
5		Zalsabilah Nurdin				
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7		Dwi Rezky Maharani				
8		Subhan Aprisa S.				
9	5	Sitti Aisyah Ibrahim	Analysis of the Arctic Amplification Phenomenon Based on Meteorological Parameter Trends in Influencing Sea Ice Melting and Its Impact on Polar Bear Habitat in the Arctic 1991-2021	International Journal of Climatology	Q1	28 April 2026
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19		Brigita Kenes Wulandari Sinala				
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Submitted: 21:59, April 30, 2026

Journal: *Journal of Air Transport Management*

Article type: Research Paper

Title: A Multi-Year Risk Assessment of SIGMET Evolution in Ujung Pandang FIR Airspace: Reconstructing Fragmented Spatiotemporal Hazards for Aviation Decision Support (2019–2025)

Authors:

1. **Tri Giswa Alfiah Ruggayah** Corresponding author ruggayahtga23h@stude...
   Hasanuddin University
2. **Muhlis Muhlis** Hasanuddin University
3. **Nur Rahmania Ramadhani** Hasanuddin University
4. **Ahmad Reihan** Hasanuddin University
5. **Halmar Halide** Hasanuddin University

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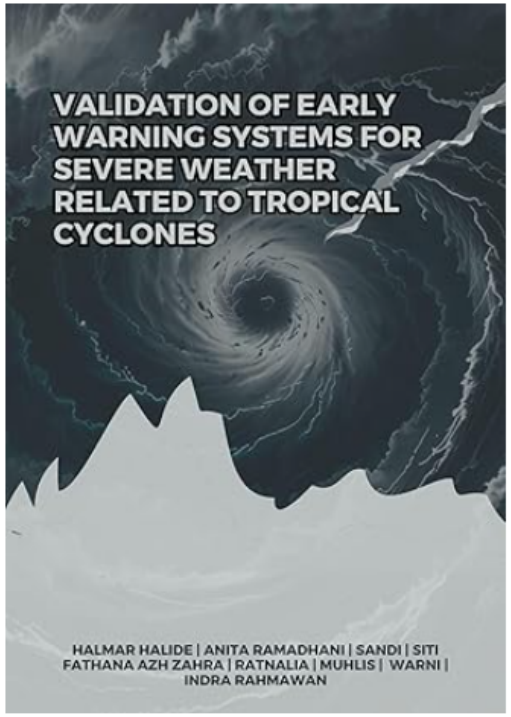

Validation of Early Warning Systems for Severe Weather Related to Tropical Cyclones Kindle Edition

by Halmar Halide (Author), Anita Ramadhani (Author), Sandi Sandi (Author), SitiFathana AzhZahra (Author), Ratnalia Ratnalia (Author), Muhlis Muhlis (Author), Warni Warni (Author), Indra Rahmawan (Author), Andika Andika (Editor)

Format: Kindle Edition

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According to an assessment by the Intergovernmental Panel on Climate Change (IPCC), an institution under the United Nations, the number and intensity of tropical cyclones are projected to increase. Whether this projection becomes a reality, early warning systems for cyclones remain crucial. As a tropical maritime country, the presence of tropical cyclones is inevitable.

Cyclones often leave traumatic impacts on affected regions, resulting in the loss of lives, destruction of property, and damage to essential community facilities. This highlights the importance of accurate early warnings to mitigate these negative effects. Warnings issued by authorized institutions are vital for public safety, enabling individuals to make informed decisions about their activities, whether to continue as planned or to stay home for safety.

Accurate early warnings can significantly reduce risks and costs, helping people avoid harmful situations. However, inaccuracies in warnings may also lead to lost opportunities. Thus, improving the reliability of early warning systems is a game changer for society.

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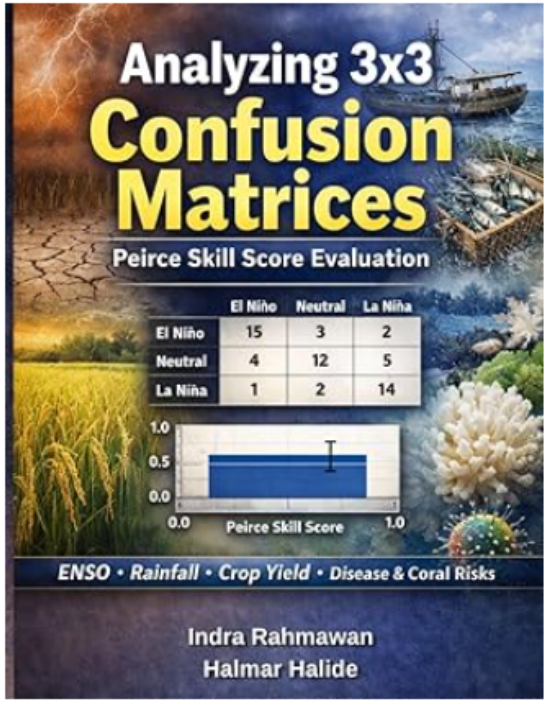


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Analyzing 3x3 Confusion Matrices: Peirce Skill Score Evaluation

by Indra Rahmawan (Author), Halmar Halide (Author)

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This e-book introduces a comprehensive and systematic framework for the verification of multi-category classification systems using 3×3 confusion matrices, with a particular emphasis on the Peirce Skill Score (PSS) and its associated uncertainty estimation (ePSS). It extends classical binary verification techniques into a multi-class context, providing a robust and interpretable approach for evaluating predictive models across a wide range of scientific and applied domains.

The proposed methodology is designed to handle complex classification problems by decomposing a 3×3 confusion matrix into multiple class-wise 2×2 contingency tables. This decomposition enables the consistent computation of essential performance metrics, including Threat Score (TS), Bias (B), False Alarm Rate (FAR), Hit Rate (H), False Alarm Ratio (F), Odds Ratio (θ), and Peirce Skill Score (PSS). In addition, the framework incorporates the estimation of the standard error of PSS (ePSS) using the delta method, ensuring that uncertainty and statistical reliability are explicitly accounted for in the evaluation process.

To support practical implementation, the entire framework is developed within the MATLAB environment and further enhanced through a Graphical User Interface (GUI). This interactive system allows users to efficiently input data, compute

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979-8258137876	April 20, 2026	English	8.5 x 0.23 x 11 inches	100 pages