Alexander Eggy Christian Pandiangan

CLIMATE ANALYST AND FORECASTER

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I work at the climate change information center, BMKG. I do data processing including data science and data analysis to produce climatological information.

SKILLS

- Bash (Shell)
- R
- Python
- MATLAB
- Inkscape
- GIS

EDUCATION

MASTER OF SCIENCE IN ATMOSPHERIC SCIENCE

Bandung Institute of Technology (ITB)

2020 - 2022

BACHELOR OF APPLIED CLIMATOLOGY

State College of Meteorology Climatology and Geophysics (STMKG)

2013 - 2018

LANGUAGE

English

Indonesia

EXPERIENCE

CLIMATE ANALYST AND FORECASTER

Center for Climate Change Information, BMKG

2018 - Present

- Dekad (10 days) and seasonal rainfall prediction in Indonesia
- Onset season prediction for Indonesia region
- Provide observation gridded rainfall of Indonesia based on satellite and gauges merging data
- Evaluate and verify rainfall and onset season of Indonesia

INTERN STUDENT AS OBSERVER

Center for Meteorology Climatology and Geophysisc Region IV Makassar

2014-2015

- Observing weather at a synoptic weather station
- Data processing e.g. monthly average and seasonal variability

RESEARCH AND PUBLICATION

- Pandiangan, A. E. C. (2022): Reduction of Systematic Error on IMERG-E Rainfall Estimation Using Bayesian Model Averaging, Master's Thesis, Institut Teknologi Bandung. https://digilib.itb.ac.id/index.php/gdl/view/68912
- A. E. C. Pandiangan, M. R. Syahputra, and T. W. Hadi. (2022, December). IMERG-E satellite rainfall estimation error decomposition for early warning use in several parts of Indonesia. In IOP Conference Series: Earth and Environmental Science 1105(1),012037. IOP Publishing. DOI 10.1088/1755-1315/1105/1/012037
- Robi Muharsyah, Adi Ripaldi, Tiar Maharani, Novi Fitrianti, Rosi Hanif D., Marlin Denata, Alexander Eggy C.P., Damiana F., Arda Y., Niken Wahyuni, Jauhari. (2020). Perbandingan Model Kopel ECMWF System 4 Dan CFSv2 Untuk Prediksi Musim di Indonesia. Megasains, 11(1), 1–11. https://doi.org/10.46824/megasains.v11i01.3
- Hidayat, N. M., Pandiangan, A. E., & Pratiwi, A. (2019). IDENTIFIKASI PERUBAHAN CURAH HUJAN DAN SUHU UDARA MENGGUNAKAN RCLIMDEX DI WILAYAH SERANG. Jurnal Meteorologi Klimatologi Dan Geofisika, 5(2), 37–44. http://dx.doi.org/10.36754/jmkg.v5i2.57
- Kurdiyan, A. E. C. Pandiangan, R. E. Saputri. (2018). Identification of Dengue Haemorrhagic Fever (DHF) Occurrence Probability based on Climate Parameter and its Projection, Case Study: East Java. International Proceeding ASEAN YOUTH CONFERENCE 2018 PPI-MALAYSIA. http://dx.doi.org/10.5281/zenodo.2582323
- Pandiangan, A. E. C. (2018). Analysis of Zonal, Meridional Components and Sea Surface Temperature as a Predictor of the Monthly Rainfall in the Makassar Area, Bachelor's Thesis, State College of Meteorology Climatology and Geophysics. https://perpus.stmkg.ac.id/index.php?p=show_detail&id=11638