

# Staff Handbook

## Geophysics Study Program

|                                                         |                                                                                                                                                                                                                                                                                                         |                                                  |                |                                                                                                                                  |
|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| Name                                                    | Andika, M.Si.                                                                                                                                                                                                                                                                                           |                                                  |                |                                                                                                                                  |
| Post                                                    | Atmospheric Science – Assistant Professor                                                                                                                                                                                                                                                               |                                                  |                |                                                                                                                                  |
| Academic career                                         |                                                                                                                                                                                                                                                                                                         | Institution                                      | Year           |                                                                                                                                  |
|                                                         | Initial Academic Appointment                                                                                                                                                                                                                                                                            | Hasanuddin University                            | 2023           |                                                                                                                                  |
|                                                         | Master Degree                                                                                                                                                                                                                                                                                           | Bandung Institute of Technology                  | 2022           |                                                                                                                                  |
|                                                         | Undergraduate Degree                                                                                                                                                                                                                                                                                    | Hasanuddin University                            | 2017           |                                                                                                                                  |
| Employment                                              | Position                                                                                                                                                                                                                                                                                                | Employer                                         | Period         |                                                                                                                                  |
|                                                         | Lecturer (Tenaga Pengajar)                                                                                                                                                                                                                                                                              | Hasanuddin University                            | 2023 – 2024    |                                                                                                                                  |
|                                                         | Assistant Professor (Asisten Ahli)                                                                                                                                                                                                                                                                      | Hasanuddin University                            | 2024 - Present |                                                                                                                                  |
| Research and development projects over the last 5 years | 1. <b>Research Project:</b> Hasanuddin University LPPM TRG Research Grant<br><b>Research Title:</b> Projection of Microorganism Communities on Prehistoric Karst Cave Paintings under Changing Climate.<br><b>Period:</b> 2025<br><b>Fund:</b> Rp. 60.000.000<br><b>Partners:</b> Dr. Nur Haedar, M.Si. |                                                  |                |                                                                                                                                  |
| Industry collaborations over the last 5 years           | Project title                                                                                                                                                                                                                                                                                           |                                                  | Partners       |                                                                                                                                  |
|                                                         | -                                                                                                                                                                                                                                                                                                       |                                                  | -              |                                                                                                                                  |
| Patents and proprietary rights                          | Title                                                                                                                                                                                                                                                                                                   |                                                  | Year           |                                                                                                                                  |
|                                                         | E-book: Prediction of Tropical Cyclone Trajectory and Speed                                                                                                                                                                                                                                             |                                                  | 2023           |                                                                                                                                  |
| Important publications over the last 5 years            | Title                                                                                                                                                                                                                                                                                                   | Journal/Book                                     | Year           | Author/Co-author(s)                                                                                                              |
|                                                         | Decadal Rainfall Variability in the Drylands of East Nusa Tenggara                                                                                                                                                                                                                                      | IOP Conf. Series: Earth and Enviromental Science | 2025           | Author: Tri Ayu Lestari<br>Co-author(s): Andika                                                                                  |
|                                                         | Perbandingan Data Pasang Surut, Arus, dan Angin dengan Prediksi pada Musim Peralihan Kedua di Laut Timor Tahun 2023                                                                                                                                                                                     | Jurnal Hidrografi Indonesia                      | 2025           | Author: Candrasa Surya Dharma<br>Co-author(s): Khair, D.R., Abimanyu, A., Fadhilah, A., Sukoco, N.B., Ronaldy, T., Sugiyanto, D. |

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|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------|------------------------------------------------------------------------------------------------------------|
|                                                                |                                                                                                                                                                                    |                               |      | Pranowo, W.S.,<br>Herho, S.,<br>Yusron, A.<br>Alfahmi, F. and<br>Andika                                    |
|                                                                | The effect of global<br>ocean factors on the<br>crown-of-thorns starfish<br>( <i>Acanthaster planci</i> ,<br>Linnaeus, 1758)<br>population in the Great<br>Barrier Reef, Australia | AACL Bioflux                  | 2025 | Author: AS<br>Febrianti<br>Co-authors:<br>Halmar Halide,<br>Andika, and AN<br>Rajalau                      |
|                                                                | New metrics for<br>distinguishing the skill<br>of long-range ENSO<br>forecasting models                                                                                            | AIP Conference<br>Proceedings | 2024 | Author:<br>Halmar Halide<br>Co-authors:<br>P Wulandari<br>and Andika                                       |
|                                                                | Developing a weather<br>data acquisition system<br>for remote cave-arts<br>monitoring                                                                                              | AIP Conference<br>Proceedings | 2024 | Author:<br>Lidemar Halide<br>Co-authors:<br>SA Kadir, R<br>Lebe, Andika,<br>MS Mandasini,<br>Halmar Halide |
|                                                                | Factors affecting COVID-<br>19 cases before<br>epidemic peaks                                                                                                                      | Gaceta Sanitaria              | 2021 | Author:<br>Andika<br>Co-authors:<br>P Wulandari<br>and Halmar<br>Halide                                    |
|                                                                | Determining significant<br>factors associated with<br>daily COVID-19 cases<br>within three social<br>distancing regimes                                                            | Gaceta Sanitaria              | 2021 | Author:<br>P Wulandari<br>Co-authors:<br>Andika and<br>Halmar Halide                                       |
| Activities in<br>specialist bodies<br>over the last 5<br>years | <b>Organisation</b>                                                                                                                                                                | <b>Role</b>                   |      | <b>Period</b>                                                                                              |
|                                                                | Himpunan Ahli<br>Geofisika Indonesia<br>Korwil Sul-Sel-Bar                                                                                                                         | Member                        |      | 2025-Present                                                                                               |