



Staff Handbook

Master Program Environmental Management



**KEMENTERIAN PENDIDIKAN, KEBUDAYAAN
RISET, DAN TEKNOLOGI
UNIVERSITAS HASANUDDIN**

Jalan Perintis Kemerdekaan Km. 10 MAKASSAR-90245
Telepon dan Fax. 62-0411-584200, Website: www.portal.pasca.unhas.ac.id

Staff Handbook

Name	PROF. DR. HAMKA NAPING. M.A		
Post	Science of Anthropology		
Link SINTA (Science and Technology Index)	https://sinta.kemdikbud.go.id/authors/profile/257590		
Academic career	Undergraduate degree (Social Politics)	Hasanuddin University	
	Master (Social Science)	Hasanuddin University	
	Doctorate (Social Science)	Hasanuddin University	
Employment	Position	Employer	Period
	Professor	Lecturer	2009
Research and development projects over the last 3 years	1. Strategy For Natural Disaster Management Based On Local Wisdom In Fisherman Communities In Barru District. 2018. Rp. 44.000.000,-		
Industry collaborations over the last 3 years			
Patents and proprietary rights	1. Sea, People and Culture		2017
	2. Portrait of Bugis Fishermen in the Embrace of Technology and Socio-Cultural Change		2012
Important publications over the last 3 years	1. Analysis of the advantages of natural resource based economic sub sectors as the basis for regional development policies in Tanah Datar Regency, West Sumatra Province		
	2. The performance of the distribution and use of improved varieties of rice in West Java Province		



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3. Changes in Bajo community settlement patterns case study of Bone Regency
4. Public Toilets, Stink and Power
5. Socio-cultural transformation through the process of internalizing values in early childhood education in makassar city (An ethnographic study of education)
6. Impact of sand mining on social economic conditions of community
7. Study of effectiveness taburia programs (Multi gizimicro substances) at children ages 6-24 months in south sulawesi province
8. A strategy of local wisdom-based natural disaster management in coastal communities in Barru District

Activities in specialist bodies over the last 3 years

Organisation

Rule

Period



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Name	PROF. DR. IR. HAZAIRIN ZUBAIR, M.SI		
Post	Soil Science		
Link SINTA (Science and Technology Index)	https://sinta.kemdikbud.go.id/authors/profile/6681277		
Academic career	Undergraduate degree (Soil Science)	Hasanuddin University	1982
	Master (Soil Science)	Bogor University	1989
	Doctorate (Natural Resources and Environmental)	Bogor University	1994
Employment	Position	Employer	Period
	Professor	Lecturer	2000
Research and development projects over the last 3 years	The Effect of Planting Media on The Growth of Metroxylon Sago Seeds In North Luwu. 2023. Rp. 60.000.000,-		
Industry collaborations over the last 3 years			
Patents and proprietary rights			
Important publications over the last 3 years	<ol style="list-style-type: none">1. Soil erosion over different slopes under pine stands2. Sustainability evaluation of the solid waste management system in Makassar City3. Impact of land use change on groundwater flow using SWAT model, study case: Tanralili Sub Watershed4. Land use change study and the increased risk of floods disaster in Jeneberang watershed at Gowa Regency, South Sulawesi, Indonesia		



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Activities in specialist bodies over the last 3 years	Organisation	Rule	Period
	Indonesian Soil Society	Member	2020-2026



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Name	PROF. IR, JAMALUDDIN JOMPA, M.SC. P.hD		
Post	Marine Ecology		
Link SINTA (Science and Technology Index)	https://sinta.kemdikbud.go.id/authors/profile/258630		
Academic career	Undergraduate degree (Physics)	Hasanuddin University	1985
	Master (Physics Science)	Kyoto University	1993
	Doctorate (Physics Science)	Kyoto University	2006
Employment	Position	Employer	Period
	Professor	Lecturer	1992
Research and development projects over the last 3 years	<ol style="list-style-type: none"> 1. Study Of Biodiversity Of Diadromous Biota In The Wallacea Area (South Sulawesi And Central Sulawesi) Through Barcoding And Initiation Of Scientific Collection (Natural History Collection) Unhas. 2023 Rp. 66,000,000 Approved 2. Sponge Diversity And Distribution In The Shallow Water Spermonde Islands, South Sulawesi, Indonesia. 2023 Rp. 59,765,000 3. Morphometric And Genetic Characteristics In Determining The Biodiversity (New Record) Of Corals (Ordo Scleractinia) In The Coral Triangle Area: Genus Acropora Spermonde Islands. 2022 Rp. 70,000,000 Approved 4. Sponge Diversity And Distribution In The Shallow Water Spermonde Islands, South Sulawesi, Indonesia. 2022 Rp. 50,000,000 5. Gradients Of Marine Biodiversity And Linkages With Edna Across The Wallacea Region. 2021 Rp. 120,040,000 6. Searching For The River Sharks And Rays Of Borneo. 2021 Rp. 150,000,000 		



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	<ol style="list-style-type: none"> 7. Exploration And Use Of Mesophotic Coral Reefs In Maluku. 2021 Rp. 127,001,500 8. Exploration And Use Of Mesophotic Coral Reefs In Maluku. 2020 Rp. 124,233,528 9. Gradients Of Marine Biodiversity And Linkages With Edna Across The Wallacea Region. 2020 Rp. 143,080,000 10. Exploration And Use Of Mesophotic Coral Reefs In Maluku. 2019 Rp. 119,829,528.
Industry collaborations over the last 3 years	
Patents and proprietary rights	<ol style="list-style-type: none"> 1. Molecular docking study of Halymenia durvillei extract (Rhodophyta) against VP26 Protein of White Spot Syndrome Virus 2023 2. SPONS 2021
Important publications over the last 3 years	<ol style="list-style-type: none"> 1. Macroalgae exhibit diverse responses to human disturbances on coral reefs 2. Fluctuating sea-level and reversing Monsoon winds drive Holocene lagoon infill in Southeast Asia 3. Species Composition and Growth Pattern of a Multi-Species Grouper in Kwandang Bay, Sulawesi Sea, Indonesia 4. Dynamics of large benthic foraminiferal assemblages: A tool to foreshadow reef degradation? 5. Dynamics of environmental change and affecting factors in the Malili lake complex, South Sulawesi 6. COI metabarcoding of large benthic Foraminifera: Method validation for application in ecological studies 7. Population dynamics of reef fish in the Kwandang Bay, Sulawesi Sea, Indonesia 8. Shallow-marine carbonate cementation in Holocene segments of the calcifying green alga Halimeda 9. The relative influence of sea surface temperature anomalies on the benthic composition of an Indo-Pacific and Caribbean coral reef over the last decade 10. eDNA metabarcoding of decapod crustaceans across Indonesian seas has implications for biodiversity conservation and fisheries sustainability



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Activities in specialist bodies over the last 3 years	Organisation	Rule	Period
	Indonesian Fisheries Society	Member	2010-2026
	ADS	President	



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Name	IR. RIJAL IDRUS, M.SC. P.hD		
Post	Environmental Management		
Link SINTA (Science and Technology Index)	https://sinta.kemdikbud.go.id/authors/profile/6679640		
Academic career	Undergraduate degree (Aquaculture)	Hasanuddin University	1998
	Master (Natural Resource Management)	McGill University, Canada	2004
	Doctorate (Environmental Science)	University Of Canterbury. New Zealand	2011
Employment	Position	Employer	Period
	Lector	Lecturer	1990
Research and development projects over the last 3 years	<ol style="list-style-type: none">1. Spatial Changes And Characteristics Of Coastal Communities In Makassar City Post Beach Reclamation. 2023 Rp. 65,000,0002. Nutritional Intervention Through Education Based On Social Cognitive Theory In School-Age Adolescents On Tanakeke Takalar Island, South Sulawesi. 2023 Rp. 68,000,0003. Development Of Bentic Substrate Spatial Ratio Index As An Indicator Of The Role Of Bentic Habitat In Reduce Wave Energy In Small Islands. 2018 Rs. 44,700,000.4. Community Vulnerability Mapping on Spermonde Karang Island. 2013 Rp. 90,000,000		
Industry collaborations over the last 3 years			



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Patents and proprietary rights							
Important publications over the last 3 years	1. The role of social structure for governing natural resources in decentralized political systems: Insights from governing a fishery in Indonesia						
Activities in specialist bodies over the last 3 years	<table><thead><tr><th>Organisation</th><th>Rule</th><th>Period</th></tr></thead><tbody><tr><td>Indonesian Fisheries Society</td><td>Member</td><td>2010-2026</td></tr></tbody></table>	Organisation	Rule	Period	Indonesian Fisheries Society	Member	2010-2026
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Name	Dr. Mahatma, ST. M.Sc		
Post	Marine science		
Link SINTA (Science and Technology Index)	https://sinta.kemdikbud.go.id/authors/profile/5974847		
Academic career	Undergraduate degree (Marine Science)	Hasanuddin University	1994
	Master (Marine Science)	Aarhus University, Denmark	1999
	Doctorate (Marine Science)	Kiel University, Germany	2004
Employment	Position	Employer	Period
	Associate Professor	Lecturer	2012
Research and development projects over the last 3 years	<ol style="list-style-type: none">1. Restoration of Seagrass Beds to Improve Ecosystem Services for Communities in Small Islands. 2022. Rp. 151.000.0002. Modeling of current patterns and sediment transport at the mouth of the Malili River, East Luwu Regency (South Sulawesi).2022 Rp.28.000.000,-		
Industry collaborations over the last 3 years	<ol style="list-style-type: none">1. Environmental Monitoring of of PT. Masmindo Dwi Area Period: 2019-2023 Partners: PT. Masmindo Dwi Area, Luwu Regency, South Sulawesi, Indonesia2. Environmental Impact Assesment of Dredging in the Malili River Estuary Period: 2020-2021 Partners: PT. Vale Indonesia		
Patents and proprietary rights	Title	Year	
	Methods For Detecting Live Corals, Dead Corals and Algae On Coral By Using Reflection Spectral Red, Green And Blue	2023	



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Important publications over the last 3 years	<ol style="list-style-type: none">1. Statistical Characterisation of tropical seagrass bed sediment and adjacent unvegetated sediment in Lae-Lae Island of Makassar (Indonesia)2. Hydrodynamics across seagrass meadows and its impacts on Indonesian coastal ecosystems: A review3. Predicting the impact of land-use changes on soil erosion rates in the three small sub-catchments of Larona Catchment									
Activities in specialist bodies over the last 3 years	<table border="1"><thead><tr><th data-bbox="483 573 858 611">Organisation</th><th data-bbox="858 573 1129 611">Rule</th><th data-bbox="1129 573 1394 611">Period</th></tr></thead><tbody><tr><td data-bbox="483 611 858 768">Indonesian Association of Oceanologist</td><td data-bbox="858 611 1129 649">Member</td><td data-bbox="1129 611 1394 649">2013 - present</td></tr><tr><td data-bbox="483 768 858 983">Restorartion Ecology Association</td><td data-bbox="858 768 1129 806">Member</td><td data-bbox="1129 768 1394 806">2010 - present</td></tr></tbody></table>	Organisation	Rule	Period	Indonesian Association of Oceanologist	Member	2013 - present	Restorartion Ecology Association	Member	2010 - present
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Name	DR. MAMING, M.SI		
Post	Environmental Chemistry		
Link SINTA (Science and Technology Index)	https://sinta.kemdikbud.go.id/authors/profile/6046153		
Academic career	Undergraduate degree (Chemistry)	Hasanuddin University	1985
	Master (Chemical Science)	Indonesia University	1993
	Doctorate (Chemical Science)	Gajah Mada University	2019
Employment	Position	Employer	Period
	Lector	Lecturer	1988
Research and development projects over the last 3 years	<ol style="list-style-type: none">1. Environment On Small Islands (An Effort to Support Islands-Based Local Wisdom). 2023 Rp. 66,000,0002. Determination of The Induction Capacity of The Chemical Mutagen Polyploidy Of Colchicin And Bio-Chatranthine In Rambusa. 2023 Rp. 66,000,0003. Synthesis And Characterization of Hap Composites From Egg Cell/Gelatin/Sio2 As Candidates For Bone Fracture Scaffold. 2023 Rp. 64,000,0004. Synthesis Of Superabsorbent Bioaerogel Cellulose Based on Corn Corn Waste. 2019 Rp. 56,615,000		
Industry collaborations over the last 3 years			
Patents and proprietary rights	1. Process For The Production Of Calcium Hydroxapatite From Chicken Egg Shell Waste As A Tooth Paste Additive	2017	
			2016





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	<ol style="list-style-type: none"> 2. Process And Composition Of Toothpaste With Additional Ingredients Of Seaweed Eucheuma Cottonii And Hydroxapatite From Cab Shell 2016 3. Manufacture And Formulation Of Anti Demineralization And Anti Bacteria Tooth Paste With Adidictive Ingredients Hydroxyapatite From Egg Shells And Virgin Coconut Oil (Vco) 							
<p>Important publications over the last 3 years</p>	<ol style="list-style-type: none"> 1. Isolation, Fractionation, and Characterization of Xanthine Oxidase from Goat's Milk 2. Optimization of cocktail AquaLight LLT volume for estimation of ¹⁴C activity in Aqueous aample using LSC Hidex 300 SL 3. Grain size and mineralogical characteristics of reef island sediments in spermonde archipelago, indonesia 							
<p>Activities in specialist bodies over the last 3 years</p>	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">Organisation</th> <th style="text-align: left; border-bottom: 1px solid black;">Rule</th> <th style="text-align: left; border-bottom: 1px solid black;">Period</th> </tr> </thead> <tbody> <tr> <td>Indonesian Chemistry Society</td> <td>Member</td> <td>2010-2026</td> </tr> </tbody> </table>	Organisation	Rule	Period	Indonesian Chemistry Society	Member	2010-2026	
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Indonesian Chemistry Society	Member	2010-2026						



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Staff Handbook

Name	PROF. DR. IR. NGAKAN PUTU OKA, M.SC		
Post	Bioenvironmetal and Plant Protection Science		
Link SINTA (Science and Technology Index)	https://sinta.kemdikbud.go.id/authors/profile/6009510		
Academic career	Undergraduate degree (Forest Ecology)	Hasanuddin University	1988
	Master (Vegetation Ecology)	Kagoshima University	1996
	Doctorate (Bioenvironmetal and Plant Protection Science)	Kagoshima University	1997
Employment	Position	Employer	Period
	Professor	Lecturer	2012
Research and development projects over the last 3 years	<ol style="list-style-type: none">1. Ecological Study of the Interrelation Between Litter Productivity, Decomposition Rate, Environmental Factors, and Development of Three Types of Secondary Forest in Maros, South Sulawesi. 2021 Rp. 60,000,0002. Ecological Study of the Interrelation Between Litter Productivity, Decomposition Rate, Environmental Factors, and Development of Three Types of Secondary Forest in Maros, South Sulawesi. 2020 Rp. 60,000,0003. Ecological Study of the Interrelation Between Litter Productivity, Decomposition Rate, Environmental Factors, and Development of Three Types of Secondary Forest in Maros, South Sulawesi. 2019. Rp. 60,000,000		
Industry collaborations over the last 3 years			
Patents and proprietary rights	Dendrology: the basics of knowing trees [electronic source]		2022



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Important publications over the last 3 years	<ol style="list-style-type: none">1. Diversity and use of traditional medicinal plant species in Bantimurung-Bulusaraung National Park, Indonesia2. Effect of Anthropogenic Activities on the Population of Moor Macaques (<i>Macaca maura</i>) in South Sulawesi, Indonesia3. Detection of viruses from feces of wild endangered <i>Macaca maura</i>: a potential threat to moor macaque survival and for zoonotic infection4. Initial Investigation of Sulawesi Moor Macaque (<i>Macaca maura</i>) in Tabo-tabo Forest, South Sulawesi - Indonesia5. A cross-cultural comparison of the link between modernization, anthropomorphism and attitude to wildlife						
Activities in specialist bodies over the last 3 years	<table border="1"><thead><tr><th data-bbox="483 707 798 741">Organisation</th><th data-bbox="798 707 1157 741">Rule</th><th data-bbox="1157 707 1388 741">Period</th></tr></thead><tbody><tr><td data-bbox="483 741 798 824">Indonesian Forest Society</td><td data-bbox="798 741 1157 824">Member</td><td data-bbox="1157 741 1388 824">2010-2026</td></tr></tbody></table>	Organisation	Rule	Period	Indonesian Forest Society	Member	2010-2026
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Name	PROF. DR. NURJANNA NURDIN, ST, M.SI		
Post	Marine Remote Sensing		
Academic career	Initial academic appointment	Institution	Year
	Bachelor's degree Marine Science and Technology	Hasanuddin University	1993
	Doctoral Degree Marine Technology	Bogor Agricultural Institute	2006
	Master Marine Technology	Bogor Agricultural Institute	1998
Employment	Position	Employer	Period
	Head of Research and Development Center for Marine, Coast, and Small Island	Universitas Hasanuddin	2017-present
	Lecturer	Universitas Hasanuddin	1997-present
Research and development projects over the last 5 years	Name of project or research focus	Year/Partners	Amount of financing
	1. KONEKSI Programme : Developing application of satellite imagery for modelling environmental and social impacts of climate change on seaweed farming in Indonesia	2023/Griffith University, Australia	Rp. 3.200.000.000
	2. Kedaireka Programme: Basemap Automation of Land Management Concession Reference and Valorization of Seaweed Cultivation with Geospatial Technology; Banggai Archipelago District	2023/ Matching Fund Indonesian Ministry of Education, Culture, Research and Technology and Local Government of Banggai Kepulauan District	Rp. 176.400.000
	3. Geospatial Technology for Conservation and Recovery Scenarios through Socio-Ecological Extraction and Interaction on Coral Reefs of the Small Islands of the Spermonde Archipelago	2023/Indonesian Ministry of Education, Culture, Research and Technology	Rp. 165.500.000



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	4. PHC Programme : Seaweed Pigments: Valorisation and Spatial Analysis for a Sustainable Aquaculture	2021-2022/Nantes University, France	Rp. 151.630.000
	5. Concorsium Research : Geospatial Information Technology Model to Support Marine Aquaculture	2019-2021/ Diponegoro University and Gajah Mada University	Rp. 147.812.500
	6. Development of Coral Health Chart Application to Determine Coral Health Level Based on Unmanned Aircraft Imagery and High Resolution Satellite Imagery	2019-2021/Indonesian Ministry of Education, Culture, Research and Technology	Rp. 152.275.000
Industry collaborations over the last 5 years	Project title: N/A Partners: N/A		
Patents and proprietary rights	Title	Granted Number	Year
	1. Detection of live corals, dead corals, and algae using RGB Spectral Reflectance (patent)	P00202008753	2023
	2. Geospatial-based social aspect database on Small Islands: Samatellu Lompo Island, Mattiro Walie Village (proprietary right)	EC00202242824	2022
	3. Existing Conditions of Shallow Waters and Precise Land Use in the Waters of the Small Islands of Samatellu Borong and Samatellu Pedda, Spermonde Archipelago, South Sulawesi Province, Indonesia (proprietary right)	EC00202242316	2022
	4. Geospatial-based social data for seaweed fishermen in Punaga Village, Mangarabombang District, Takalar Regency (proprietary right)	EC00202249576	2022
	5. Shallow Water Ecosystems and Land Use of Polewali Island, Langkadea Island, Nutmeg Island, and Cangke	EC00202156306	2021



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Island Pangkep Regency (proprietary right)		
6. Potential Suitability of Seaweed Cultivation Based on Several Parameters in coastal waters of Pangkep, Maros, Makassar City and Takalar Regencies (proprietary right)	EC00202145216	2021
7. Potential Suitability of Seaweed Cultivation Based on Parameters in Coastal Waters of Jeneponto, Bantaeng, Bulukumba, Selayar, Sinjai, Bone, Wajo, Luwu, North Luwu, East Luwu, and Palopo Municipalities (proprietary right)	EC00202143345	2021
8. Massive Coral "Spectral Signature" Database (proprietary right)	EC00202021835	2020
9. Database "Spectral Signature" Coral Branching, Foliose & Tabulate (proprietary right)	EC00202025155	2020
10. Potential Suitability of Seaweed Cultivation Based on Several Parameters in the Spermonde Archipelago, Makassar Strait, Indonesia (proprietary right)	EC00202042920	2020
11. Spatial Database of 44 Years of Shallow Water Ecosystem Conditions (Laiya Island, Polewali Island, Karangrang Lompo Island) Spermonde Islands, South Sulawesi, Indonesia (proprietary right)	EC00201942217	2020
12. Spatial Database of 44 Years of Shallow Water Ecosystem Conditions (Balang Lompo and Ballang Caddi Islands) Spermonde Archipelago, South Sulawesi, Indonesia (proprietary right)	EC00201942377	2020



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13. Potential of Langnga Village, Mattiro Sompe District, Pinrang Regency (proprietary right)	EC00201981032	2019
14. Spatial Base Date 44 Years Shallow Water Ecosystem Conditions (Lumu-Lumu Island, Badi Island, Bonetambung Island, K. Keke Island, K. Lompo Island, Sarappo Island, and Sarappo Keke Island) Spermonde Islands Sul Sel, Indonesia (proprietary right)	EC00201940511	2019
15. Date Base Spatial Spatial Dynamics Data 41 Years Ecosystem Conditions in Shallow Waters of the Spermonde Archipelago, South Sulawesi, Indonesia (proprietary right)	EC00201940444	2019
16. Spatial Database of 44 Years of Shallow Water Ecosystem Conditions (Podang Podang Lompo Island, Podang Podang Caddi Island, Bontosua Island, Pajenekang Island) Spermonde Islands, South Sulawesi, Indonesia (proprietary right)	EC00201941219	2019
17. Spatial Database of 44 Years of Shallow Water Ecosystem Conditions (Samatella Island, Samatellu Lompo Island, Samatellu Peda Island, Salebo Island) Spermonde Islands, South Sulawesi, Indonesia (proprietary right)	EC00201941149	2019
18. Spatial Database 44 Years of Shallow Water Ecosystem Conditions (Sabuton Island, Saugi Island, Bangkombangkoang Island, Kulambing Island) Spermonde Islands, South Sulawesi, Indonesia (proprietary right)	EC00201941862	2019
19. Spatial Database 44 Years of Shallow Water Ecosystem Conditions (Barrang Lompo Island, Barrang Caddi Island, Bonetambung Island) Spermonde	EC00201941860	2019



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	<p>Archipelago, South Sulawesi, Indonesia (proprietary right)</p> <p>20. Spatial Database of 44 Years of Shallow Water Ecosystem Conditions (Laiya Island, Polewali Island, Karangrang Lompo Island) Spermonde Islands, South Sulawesi, Indonesia (proprietary right)</p> <p>21. Spatial Database of 44 Years of Shallow Water Ecosystem Conditions (Balang Lompo and Ballang Caddi Islands) Spermonde Archipelago, South Sulawesi, Indonesia (proprietary right)</p> <p>22. Remote Sensing and Its Application in the Coastal Ecosystem of the Outermost Small Islands of the Spermonde Archipelago (proprietary right)</p> <p>23. Seasonal water conditions change to west and east monsoons in the Spermonde Archipelago, South Sulawesi, Indonesia (proprietary right)</p>						
<p>Important publications over the last 5 years</p>	<ol style="list-style-type: none"> 1. Estimation of Seagrass Biomass by In Situ Measurement and Remote Sensing Technology on Small Islands, Indonesia 2. Coral reefs on inhabited and uninhabited small islands, spermonde archipelago, Indonesia 3. Identification of Potential Locations for Kappaphycus alvarezii Cultivation for Optimization of Seaweed Production Based on Geographic Information Systems in Spermonde Archipelago Waters, South Sulawesi, Indonesia 4. Estimation of Seagrass Biomass by In Situ Measurement and Remote Sensing Technology on Small Islands, Indonesia 5. Spatial Technology Based Participatory Digital Database for Village Potentials 						
<p>Activities in specialist bodies over the last 5 years</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Organisation</th> <th style="text-align: center;">Role</th> <th style="text-align: center;">Period</th> </tr> </thead> <tbody> <tr> <td>1. Ocean Remote Sensing Project, IOC, Western Pasific (WESTPAC), UNESCO</td> <td>Member and Steering Committee</td> <td>2012 - present</td> </tr> </tbody> </table>	Organisation	Role	Period	1. Ocean Remote Sensing Project, IOC, Western Pasific (WESTPAC), UNESCO	Member and Steering Committee	2012 - present
Organisation	Role	Period					
1. Ocean Remote Sensing Project, IOC, Western Pasific (WESTPAC), UNESCO	Member and Steering Committee	2012 - present					



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	2. Islamic Development Bank (IsDB)	Member of external Reviewer for doctoral and postdoctoral Scholarship	2011 - present
	3. Japan Society for the Promotion of Science (JSPS) CORE to CORE	Member	2011-2018
	4. Center for Geospatial Information Infrastructure Development (PPIIG)-South Sulawesi. Indonesian Geospatial Information Agency (BIG)	Head	2014-present
	5. Professional Certification Institute of Indonesian Society of Remote Sensing Experts	Member, Assesor	2014-present
	6. Indonesian Society of Remote Sensing Experts	Advisor	2018-present



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Staff Handbook

Name	PROF. DRA. PAULINA TABA, M.SC, P.HD		
Post	Materials Chemistry		
Link SINTA (Science and Technology Index)	https://sinta.kemdikbud.go.id/authors/profile/5979914		
Academic career	Undergraduate degree (Forest Ecology)	Hasanuddin University	1983
	Master (Integrated Natural Resources Developmen and Management)	Asian Institute of Technology	1993
	Doctorate (Agricultural Systems)	Hasanuddin University	2002
Employment	Position	Employer	Period
	Professor	Lecturer	2012
Research and development projects over the last 3 years	<ol style="list-style-type: none">1. Basic Study Of The Potential Of Beef Bone And Hatchery Waste As A Source Of Calcium Hydroxyapatite Nano-Particles For Bone Graf Material Preparation. 2023. Rp. 66.000.000,-2. Study Of The Characterization And Utilization Of Natural Zeolite In The Moncongloe Area, Maros District, Selatan Sulawesi Province As An Adsorbent And Catalyst Mineral. 2023. Rp. 68.000.000,-3. Recombination Reduction Of Semiconductor Metal Oxide (MOS) Electron-Holes Nanoparticles In Organic Waste Purification. 2023. Rp. 62.000.000,-4. Synthesis Of Mesoporous Silica MCM-48 And Its Application As Adsorbent Of Congo Red And Malachite Green Waste. 2021. Rp. 60.000.000,-		
Industry collaborations over the last 3 years			
Patents and proprietary rights	Process For The Production Of Calcium Hydroxhapatite From Chicken Egg Shell Waste As A Tooth Paste Additive		



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Important publications over the last 3 years	<ol style="list-style-type: none">1. Effect of Carboxymethyl Cellulose (CMC) Concentration on Water Absorption on Polyvinyl Alcohol (PVA) Hydrogels2. Structural and optical properties of AZO/TiO₂hetero-structures thin films on ITO substrates for solar cell application3. Synthesis and characterization of titanium dioxide (M-TiO₂) nanoparticles doped transition metal (CoCu)4. Photodegradation of titan yellow dyes using Co/ZnO catalyst						
Activities in specialist bodies over the last 3 years	<table><thead><tr><th data-bbox="483 589 858 622">Organisation</th><th data-bbox="858 589 1157 622">Rule</th><th data-bbox="1157 589 1388 622">Period</th></tr></thead><tbody><tr><td data-bbox="483 622 858 712">Indonesian Chemistry Society</td><td data-bbox="858 622 1157 656">Member</td><td data-bbox="1157 622 1388 656">2010-2026</td></tr></tbody></table>	Organisation	Rule	Period	Indonesian Chemistry Society	Member	2010-2026
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Staff Handbook

Name	PROF. DR. PAWENARI. M.A		
Post	Science of Anthropology		
Link SINTA (Science and Technology Index)	https://sinta.kemdikbud.go.id/authors/profile/257590		
Academic career	Undergraduate degree (Social Politics)	Hasanuddin University	1988
	Master (Social Science)	Hasanuddin University	2000
	Doctorate (Social Science)	Hasanuddin University	2004
Employment	Position	Employer	Period
	Professor	Lecturer	2009
Research and development projects over the last 3 years	<ol style="list-style-type: none">1. Construction Of A Model Of Local Wisdom Values Of Papua's Traditional Communities In Supporting The Democratic System Of Government In Puncak Jaya District, Papua Province. 2020 Rp. 60,000,0002. Sensitive Cultural Assessment To Build Social Harmony In Inter-Tribal Relations In South Sulawesi And West Sulawesi.3. 2019 Rp. 150,000,0004. Sensitive Cultural Assessment To Build Social Harmony In Inter-Tribal Relations In South Sulawesi And West Sulawesi.5. 2018 Rs. 110,000,0006. Adaptive Development Strategy Model To Improve The Lifestyle Of The Kamoro-Amungme Community In Mimika District. 2018 Rs. 50,000,000		
Industry collaborations over the last 3 years			
Patents and proprietary rights	1. Ecotourism Learning from Kolaka		2017



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	2. Minimum Service Standards (SPM) For 2013 Regional Development Units In Toraja Utara District			
Important publications over the last 3 years	1. Indigenous people's environmental conservation system: Case study of Kajang society, Indonesia			
Activities in specialist bodies over the last 3 years	<table><thead><tr><th>Organisation</th><th>Rule</th><th>Period</th></tr></thead></table>	Organisation	Rule	Period
Organisation	Rule	Period		



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Staff Handbook

Name	DR. SAMSU ARIF, M.SI		
Post	Geographycal Infromation System		
Link SINTA (Science and Technology Index)	https://sinta.kemdikbud.go.id/authors/profile/6019960		
Academic career	Undergraduate degree (Forest Ecology)	Bandung Technology Institute	1983
	Master (Integrated Natural Resources Developmen and Management)	Asian Institute of Technology	1993
	Doctorate (GIS)	Hasanuddin University	2006
Employment	Position	Employer	Period
	Lector	Lecturer	2012
Research and development projects over the last 3 years	1. Optimization Of Settlement Land Management As An Anticipation Of Population Growth Using Dynamic Systems And Neural Network. 2020. Rp. 190.285.000,- 2. Presentation Of Makassar City Green Open Space In Web GIS. 2022. Rp. 11.000.000,-		
Industry collaborations over the last 3 years			
Patents and proprietary rights	1. Optimizing Residential Land Management in Anticipation of Population Growth Dynamics Using Dynamic Systems and Neural Networks		2020
	2. A Proposed Land Suitability Requirements For Maize; Specific In The Humid Tropic Of Indonesia		2020





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	3. Soil Characteristics of Final Waste Treatment Sites in Kota Bangun District, Kutai Kartanegara 2021						
Important publications over the last 3 years	<ol style="list-style-type: none">1. Geoportal platform design for agricultural development of small island based on geosmart system2. Quantifying future environmental carrying capacity based on land use/land cover data and ecosystem services valuation: a case study in Makassar City, Indonesia3. Existence of paddy fields in Makassar city as a part of green open space: Ecological perspective on urban farming						
Activities in specialist bodies over the last 3 years	<table><thead><tr><th>Organisation</th><th>Rule</th><th>Period</th></tr></thead><tbody><tr><td>Indonesian Mapping Society</td><td>Member</td><td>2010-2026</td></tr></tbody></table>	Organisation	Rule	Period	Indonesian Mapping Society	Member	2010-2026
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Indonesian Mapping Society	Member	2010-2026					



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Staff Handbook

Name	PROF. SRI SURYANI. P.HD		
Post	Physics Material		
Link SINTA (Science and Technology Index)	https://sinta.kemdikbud.go.id/authors/profile/6017401		
Academic career	Undergraduate degree (Physic Science)	ITB University	1982
	Master (Environmental Science)	Universite De Provence	1992
	Doctorate (Forest Science)	Universite De Provence	1995
Employment	Position	Employer	Period
	Professor	Lecturer	2005
Research and development projects over the last 3 years	<ol style="list-style-type: none"> 1. Fabrication Of Scaffolds From Doping Reinforced Rabbitfish (Siganus) Bone For Bone Tissue Engineering Applications. 2022 Rp. 50,000,000 2. Identifying The Characteristics Of Hydroxyapatite-Zro2-Pva Bio-Composite As Bone Filler. 2020 Rp. 38,715,000 3. Development Of The Potential Of Morinda Citrifolia L. (Morinda Citrifolia L.) Chlorophyl As A Photosensitizer For Eradication Of Infectional Diseases In Laser And Oxygen Based Photodynamic Therapy Systems. 2020 Rp. 65,000,000 		
Industry collaborations over the last 3 years			
Patents and proprietary rights	1. Biophysics: Concepts and Applications in the Health Field		2017
	2. Radiobiology		2017





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Important publications over the last 3 years	<ol style="list-style-type: none">1. Hydroxyapatite based for bone tissue engineering: innovation and new insights in 3D printing technology2. High efficiency self-cleaning of nanocomposites ZnO with additional chitosan for helping electron and hole transport3. Effect of dustfall pollution on chlorophyl content of polyalthea longifolia leaves4. The comparison of Size-Specific Dose Estimate (SSDE) in chest CT examination calculated based on volumetric CT Dose Index (CTDIvol) reference phantom and Dose Length Product (DLP)5. Structural and bonding characteristic of composite gelatine-PVA-Zn for phantom breast cancer applications						
Activities in specialist bodies over the last 3 years	<table border="1"><thead><tr><th data-bbox="483 781 798 815">Organisation</th><th data-bbox="798 781 1157 815">Rule</th><th data-bbox="1157 781 1388 815">Period</th></tr></thead><tbody><tr><td data-bbox="483 815 798 898">Indonesian Physics Society</td><td data-bbox="798 815 1157 851">Member</td><td data-bbox="1157 815 1388 851">2011-2026</td></tr></tbody></table>	Organisation	Rule	Period	Indonesian Physics Society	Member	2011-2026
Organisation	Rule	Period					
Indonesian Physics Society	Member	2011-2026					



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Name	PROF. IR. SUMBANGAN BAJA, M.SC, PH.D		
Post	Geospatial Planning		
Link SINTA (Science and Technology Index)	https://sinta.kemdikbud.go.id/authors/profile/6005707		
Academic career	Undergraduate degree (Soil Science)	Hasanuddin University	1983
	Master (Soil Science)	Massey Univ. New Zealand	1993
	Doctorate (Land Resources)	University of Sydney Australia	2006
Employment	Position	Employer	Period
	Professor	Lecturer	2012
Research and development projects over the last 3 years	<ol style="list-style-type: none">1. Spatial Modeling of Land Use Prediction and Environmental Carrying Capacity of Makassar City. 2020. Rp. 51.500.000,-2. Spatial and Integrated Policy Analysis (Biophysical, Social, Economic) in the Context of Increasing Maize Productivity in the Southern Region of South Sulawesi. 2020. Rp. 167.150.000,-3. Spatial and Integrated Policy Analysis (Biophysical, Social, Economic) in the Context of Increasing Maize Productivity in the Southern Region of South Sulawesi. 2019. Rp. 173650.000,-		
Industry collaborations over the last 3 years			
Patents and proprietary rights	1. Kaledupa Island Soil Type Map		2021
	2. A Proposed Land Suitability Requirements For Maize; Specific In The Humid Tropic Of Indonesia		2020
	3. Land Use Conflict On Agricultural Dryland: An Analysis Using Gis And Land		2020



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	Capability Evaluation Specific For Humid Tropics		
Important publications over the last 3 years	<ol style="list-style-type: none">1. Spatial Distribution of Livestock Wastewater Pollution and its Treatment in Saddang Watershed2. Geoportal platform design for agricultural development of small island based on geosmart system3. Assessment of future environmental carrying capacity in the Mamminasata area, Indonesia, derived from regional census and land cover		
Activities in specialist bodies over the last 3 years	Organisation Indonesian Soil Society	Rule Member	Period 2010-2026



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Name	DR. IR. USMAN ARSYAD. M.SI		
Post	Watershed Management		
Link SINTA (Science and Technology Index)	https://sinta.kemdikbud.go.id/authors/profile/6046153		
Academic career	Undergraduate degree (Forest Science)	Hasanuddin University	1984
	Master (Agriculture Science)	Hasanuddin University	2000
	Doctorate (Agriculture Science)	Hasanuddin University	2010
Employment	Position	Employer	Period
	Associate Professor	Lecturer	2000
Research and development projects over the last 3 years	<ol style="list-style-type: none"> 1. Mixed Garden Model – Tallun Based On Coping To Overcome Drought And Increasing The Livelihood Capacity Of Gurem Farmers In Minraleng Hulu Sub-Das, Maros District. 2020 Rp. 65,000,000 2. Landscape-Lifescape-Based Adaptive Agroforestry Model For Climate Change Disaster Mitigation In Minraleng Hulu Sub-Das Management, Maros District. 2018 Rs. 43,000,000 3. Evaluation Of Various Potentials Of Unhas Educational Forests For Optimizing Benefit Values And Various Services Of Educational Forests As Miniature Models Of Sustainable Forest Management. 2017 Rp. 105,185,000 		
Industry collaborations over the last 3 years			
Patents and proprietary rights	Management Study of the Impact of Jeneberang Watershed Sedimentation on the Sustainability of the Bili-Bili DAM in South Sulawesi		2012



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Important publications over the last 3 years	<ol style="list-style-type: none">1. Analysis of the landslides vulnerability level using frequency ratio method in Tangka Watershed2. Rate infiltration on mahogany stand and open area at Hasanuddin University3. Suitability of land use with spacial plan in Lisu watershed4. The infiltration rate on candlenut stands in Lamoncong Village Bontocani District Bone Regency5. Prediction of erosion and sedimentation rates using SWAT (Soil and Water Assessment Tool) method in the Jenelata Sub Watershed6. Prediction of erosion using the USLE method in the Malino Sub Watershed						
Activities in specialist bodies over the last 3 years	<table border="1"><thead><tr><th data-bbox="483 824 798 857">Organisation</th><th data-bbox="798 824 1157 857">Rule</th><th data-bbox="1157 824 1394 857">Period</th></tr></thead><tbody><tr><td data-bbox="483 857 798 898">Forest Sociate</td><td data-bbox="798 857 1157 898">Member</td><td data-bbox="1157 857 1394 898">2022-2025</td></tr></tbody></table>	Organisation	Rule	Period	Forest Sociate	Member	2022-2025
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Forest Sociate	Member	2022-2025					



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Staff Handbook

Name	PROF. DR. IR. SHARIFUDDIN BIN ANDY OMAR, M.SC		
Post	Fish Ecology		
Link SINTA (Science and Technology Index)	https://sinta.kemdikbud.go.id/authors/profile/6005076		
Academic career	Undergraduate degree (Aquatic Resources Management)	Hasanuddin University	1988
	Master (Marine Science)	Aarhus University, Denmark	1996
	Doctorate (Reproductive Biology)	Bogor University	2002
Employment	Position	Employer	Period
	Professor	Lecturer	2012
Research and development projects over the last 3 years	<ol style="list-style-type: none">1. Utilization of brown fish (<i>Pterygoplichthys pardalis castelnaui</i>, 1855) in lake sidenreng, sidenreng rappang regency, in broiler rations. 2022. Rp. 100.000.000,-2. Quality and potential of brown fish (<i>Pterygoplichthys pardalis castelnaui</i>, 1855) in lake sidenreng, sidenreng rappang district, as a feeding material for poultry. 2021. Rp. 70.000.000,-3. Diversity of fish endemic in maros karst area based on bioecological characteristics and deoxyribonucleic acid (DNA). 2021. Rp. 72.500.000,-		
Industry collaborations over the last 3 years			
Patents and proprietary rights	Title	Year	
	Fish World	2018	
	Fisheries Biology	2022	
	Reproductive Biology	2022	
	Aquatic Ecology	2022	
	Functional Ichthyology	2022	
Systematic Ichthyology	2022		



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	Planktonology	2022	
Important publications over the last 3 years	<ol style="list-style-type: none">1. Phylogenetic Analysis of Endemic Fish from the Maros Karst Region, South Sulawesi, Indonesia2. Survival Rates of Oryzias Celebensis Embryo Reared in Different Media in an Attempt to Provide Embryos for Ecotoxicological Studies3. Taxonomic Note on Ellochelon vaigiensis (Quoy & Gaimard, 1825) (Mugilidae: Mugiliformes) from West New Guinea, Indonesia		
Activities in specialist bodies over the last 3 years	Organisation	Rule	Period
	Indonesian Ichthyological Society	Member	2010-2026
	Indonesian Mollusk Society	Member	2021-2023



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Staff Handbook

Name	DR. AGUS BINTARA, S.KEL. M.KES, C,EIA		
Post	Environmental Health		
Link SINTA (Science and Technology Index)	https://sinta.kemdikbud.go.id/authors/profile/6023654		
Academic career	Undergraduate degree (Marine Science)	Hasanuddin University	2004
	Master (Environmental Health)	Hasanuddin University	2007
	Doctorate (Medical Science)	Hasanuddin University	2014
Employment	Position	Employer	Period
	Lector	Lecturer	2016
	Associate Professor	Lecturer	2021
Research and development projects over the last 3 years	<ol style="list-style-type: none">1. Small Island Water Supply (Siws) Model As A Solution To Environment-Based Disease Prevention In Small Islands (An Effort To Support Islands-Based Local Wisdom). 2023. Rp. 66.000.000,-2. The Healthy Island Model in Makassar City. 2021.Rp. 47.660.000,-3. Application Of Appropriate Technology In Island Waste-Water Treatment (Iwwt) For Environment-Based Infection Prevention At Small Island, Makassar City. 2022. Rp. 85.000.000,-		
Industry collaborations over the last 3 years	<ol style="list-style-type: none">1. Environmental Monitoring At PT. Semen Tonasa2. Environmental Monitoring At a wind power plant in Sidrap3. Environmental Monitoring At PT. Masmindo Dwi Area		
Patents and proprietary rights	<ol style="list-style-type: none">1. Mobile Floating Latrine For Coastal Areas2. Clean Water Processing Through A Coagulation-Filtration Process Using Natural Materials From The Coastal Islands		



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<p>Important publications over the last 3 years</p>	<ol style="list-style-type: none"> 1. Clean Water Supply as an Indicator for Healthy Island in Makassar City 2. Expert Needs of Healthy Public Health Centre Development in the Archipelago Area of South Sulawesi 3. Prediction and Control Model of Musculoskeletal Disorders in the Instant Noodle Company in Makassar 2020–2050 4. A dynamic model approach to estimating events dengue hemorrhagic fever in gowa district 5. Clean water supply vulnerability model for improving the quality of public health (environmental health perspective): A case in Spermonde islands, Makassar Indonesia 												
<p>Activities in specialist bodies over the last 3 years</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Organisation</th> <th style="text-align: left;">Rule</th> <th style="text-align: left;">Period</th> </tr> </thead> <tbody> <tr> <td>1. Environmental Heath Specialist Indonesia</td> <td>Member</td> <td>2010-2022</td> </tr> <tr> <td>2. ASDI – Indonesian Dynamic System Association</td> <td>Member</td> <td>2019-2023</td> </tr> <tr> <td>3. Indonesian Environmental Profession</td> <td>Member</td> <td>2019-2026</td> </tr> </tbody> </table>	Organisation	Rule	Period	1. Environmental Heath Specialist Indonesia	Member	2010-2022	2. ASDI – Indonesian Dynamic System Association	Member	2019-2023	3. Indonesian Environmental Profession	Member	2019-2026
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Staff Handbook

Name	ALIMUDDIN HAMZAH, M.Eng. P.hD		
Post	Physical Material		
Link SINTA (Science and Technology Index)	https://sinta.kemdikbud.go.id/authors/profile/6043734		
Academic career	Undergraduate degree (Physics)	Hasanuddin University	1992
	Master (Physics Science)	Kyoto University	1998
	Doctorate (Physics Science)	Kyoto University	2001
Employment	Position	Employer	Period
	Lector	Lecturer	1997
Research and development projects over the last 3 years	1. Microzonation Of Soil Disaster Vulnerability Based On Distribution Of Ground Shear Strain (Gss) Value In Post Petobo Liquefaction Area, Palu City, Central Sulawesi. 2023 Rp. 66,000,000 2. Tsunami Reconstruction Modeling In The Sawu Sea Due To Volcanic Iya Activities As A Disaster Mitigation Effort. 2023 Rp. 66,000,000		
Industry collaborations over the last 3 years			
Patents and proprietary rights			
Important publications over the last 3 years	1. Three Decades State of the Tombolo Related to Wind Climate (1985 to 2015): Case of Galesong Beach, Takalar Regency 2. Upwelling Dynamic Based on Satellite and INDESO Data in the Flores Sea		



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	3. The application of the AERMOD model in the environmental health to identify the dispersion area of total suspended particulate from cement industry stacks		
	4. The internal factors affecting lung capacity of people living in areas around the cement industry, indonesia		
Activities in specialist bodies over the last 3 years	Organisation Indonesian Physics Society	Rule Member	Period 2010-2026



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Staff Handbook

Name	PROF. DR. IR. AMBO TUWO, DEA		
Post	Marine Ecology		
Link SINTA (Science and Technology Index)	https://sinta.kemdikbud.go.id/authors/profile/5981439		
Academic career	Undergraduate degree (Aquaculture)	Universitas Hasanuddin	1986
	Master (Biology Oceanography and Environment)	Universit de Bretagne Occidentale	1990
	Doctorate (Oceanography Biology)	Universite de Bretagne Occidentale	1993
Employment	Position	Employer	Period
	Professor	Lecturer	2000
Research and development projects over the last 3 years	<ol style="list-style-type: none"> 1. Productive and Environmentally Friendly Model of Multitropic Pond Cultivation. 2021. Rp 98.000.000,- 2. Reproductive Biological Study Of Cockroach Fish For Quantitative Reference For Evaluation Of The Impacts Of Climate Change And Global Warming. 2020. Rp. 65.000.000 3. Study Of The Potential Of Non-Commercial Seaweed As A Seafood Security Mitigation Agent. 2020. Rp. 70.000.000,- 4. Productive and Environmentally Friendly Model of Multitropic Pond Cultivation. 2019. Rp. 90.050.000,- 		
Industry collaborations over the last 3 years			
Patents and proprietary rights	1. Seaweed Cultivation For Community Welfare In Coastal Areas And Small Island		2023
	2. Seaweeds For Food Security And Environmental Mitigation		2023



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	3. Development of Indonesia's outermost small islands for national welfare and resilience 2022												
Important publications over the last 3 years	<ol style="list-style-type: none"> 1. Diversity of fauna species in the mangrove ecosystem of Youtefa Bay Tourism Park, Papua, Indonesia 2. Characteristics of plastic waste and perceptions of coastal communities in the Baluno mangrove ecotourism area, West Sulawesi, Indonesia 3. Marine ecotourism development in South Sulawesi, Indonesia 4. High salinity effect on mortality of sandfish <i>Holothuria scabra</i> (Jaeger, 1833) 												
Activities in specialist bodies over the last 3 years	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Organisation</th> <th style="text-align: left;">Rule</th> <th style="text-align: left;">Period</th> </tr> </thead> <tbody> <tr> <td>Association of Indonesian Fisheries Scholars</td> <td>Member</td> <td>2015- present</td> </tr> <tr> <td>Association of Indonesian Fishermen</td> <td>Member</td> <td>2016-present</td> </tr> <tr> <td>Indonesian Engineers Association</td> <td>Member</td> <td>1985-present</td> </tr> </tbody> </table>	Organisation	Rule	Period	Association of Indonesian Fisheries Scholars	Member	2015- present	Association of Indonesian Fishermen	Member	2016-present	Indonesian Engineers Association	Member	1985-present
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Association of Indonesian Fisheries Scholars	Member	2015- present											
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Indonesian Engineers Association	Member	1985-present											



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Staff Handbook

Name	PROF. DR. IR. AMRAN AHMAD, M.SC		
Post	Fish Ecology		
Link SINTA (Science and Technology Index)	https://sinta.kemdikbud.go.id/authors/profile/5982188		
Academic career	Undergraduate degree (Forest Ecology)	Hasanuddin University	1983
	Master (Integrated Natural Resources Developmen and Management)	Asian Institute of Technology	1993
	Doctorate (Agricultural Systems)	Hasanuddin University	2006
Employment	Position	Employer	Period
	Professor	Lecturer	2012
Research and development projects over the last 3 years	<ol style="list-style-type: none">1. Study of ecological and cultural aspect as a pillar of ectourism in bantimurung bulusaraung national park. 2023. Rp. 64.000.000,-2. Gold-Based Waste Management System (Case Study of Sectoral Waste Banks, Manggala District, Makassar City, Selatan Sulawesi). 2022. Rp.64.000.000,-3. Study of The Sulawesi Fruit Bat (<i>Acerodon celebensis</i>) Nesting Habitat In Several Types Of Habitat As An Effort For Conservation And Development Of Ectourism In South Sulawesi. 2018. Rp.85.000.000,-		
Industry collaborations over the last 3 years			
Patents and proprietary rights	<ol style="list-style-type: none">1. Building Wild Ecotourism2. Secrets of the Limestone Hill Forest Ecosystem		



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Important publications over the last 3 years	<ol style="list-style-type: none">1. Bird diversity analysis in the lower mountain forest of mount Bulusaraung to support ecotourism's activities in Bantimurung Bulusaraung National Park2. Economic valuation of area management Latuppa Nature Tourism Palopo City3. Tracing current wildlife trade: An initial investigation in makassar city, indonesia						
Activities in specialist bodies over the last 3 years	<table><thead><tr><th data-bbox="483 577 798 611">Organisation</th><th data-bbox="798 577 1157 611">Rule</th><th data-bbox="1157 577 1399 611">Period</th></tr></thead><tbody><tr><td data-bbox="483 611 798 701">Indonesian Forest Society</td><td data-bbox="798 611 1157 701">Member</td><td data-bbox="1157 611 1399 701">2010-2026</td></tr></tbody></table>	Organisation	Rule	Period	Indonesian Forest Society	Member	2010-2026
Organisation	Rule	Period					
Indonesian Forest Society	Member	2010-2026					



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Staff Handbook

Name	ANDANG SURYANA SOMA, S.HUT. M.Si. P.hD		
Post	Forest Spatial Planning		
Link SINTA (Science and Technology Index)	https://sinta.kemdikbud.go.id/authors/profile/257590		
Academic career	Undergraduate degree (Forest Science)	Hasanuddin University	2001
	Master (Forest Science)	Hasanuddin University	2004
	Doctorate (Forest Science)	Kyushu University	2018
Employment	Position	Employer	Period
	Lector	Lecturer	2003
Research and development projects over the last 3 years	<ol style="list-style-type: none">1. Climate Change And Searching For The Prevalence Of Silkworm Pebrin Disease (Bombyx Mori L) And Adaptive Breed Selection. 2023 Rp. 66,000,000.-2. Stock Estimation Model For Above-Ground Biomass (Agb) Rhizophora Types In Mangrove Forests Using Unmanned Aerial Vehicle (Uav) 2023 Rp. 50,000,0003. Utilization Of Geographic Information System Technology And Terrestrial Data In Rehabilitation Of Landslide Prone Lands In Palopo City. 2023 Rp. 58,400,000,-4. Comparative Analysis Of The Potential Of Carbon Absorption In Forest And Plantation Areas To Support Climate Change Mitigation. 2022 Rp. 110,000,0005. Stock Estimation Model For Above-Ground Biomass (Agb) Rhizophora Types In Mangrove Forests Using Unmanned Aerial Vehicle (Uav) 2022 Rp. 50,000,0006. Utilization Of Geographic Information System Technology And Terrestrial Data In Rehabilitation Of Landslide Prone Lands In Palopo City. 2022 Rp. 58,500,000		



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Industry collaborations over the last 3 years							
Patents and proprietary rights	<ol style="list-style-type: none"> 1. Masterplan for Relocation of Earthquake Affected Areas in Kabiraan Village, Majene Regency 2023 2. Methods for Mitigating and Controlling Flood Prone Areas in Bulukumba Regency (Study of Watershed Management in South Sulawesi Province) 2022 						
Important publications over the last 3 years	<ol style="list-style-type: none"> 1. Monitoring Illegal Logging Using Google Earth Engine in Sulawesi Selatan Tropical Forest, Indonesia 2. Effect landslide hazard mitigation using an integrated of Analytical Hierarchy Process and Multi Criteria Evaluation: A case study the Jeneberang watershed 3. Composition, diversity and association of pioneer plants on post-landslide areas in Palopo, South Sulawesi, Indonesia 4. Risk mapping and estimation of COVID-19 transmission in South Sulawesi, Indonesia by a self-identification survey 5. Spatial Distribution of Drug-Resistant Tuberculosis in Makassar City, South Sulawesi Province, Indonesia 6. The carbon storage capacity of plantation forests and agroforestry pattern in South Sulawesi in the context of mitigating climate change 						
Activities in specialist bodies over the last 3 years	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Organisation</th> <th style="text-align: left;">Rule</th> <th style="text-align: left;">Period</th> </tr> </thead> <tbody> <tr> <td>MAPIN</td> <td>Member</td> <td>2010-2026</td> </tr> </tbody> </table>	Organisation	Rule	Period	MAPIN	Member	2010-2026
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Staff Handbook

Name	PROF. DR. ANWAR DAUD, M. KES		
Post	Environmental Health		
Link SINTA (Science and Technology Index)	https://sinta.kemdikbud.go.id/authors/profile/6019232		
Academic career	Undergraduate degree (Environmental Health)	Hasanuddin University	1983
	Master (Environmental Health)	Airlangga University	1993
	Doctorate (Environmental Health)	Hasanuddin University	2009
Employment	Position	Employer	Period
	Professor	Lecturer	2012
Research and development projects over the last 3 years	<ol style="list-style-type: none">1. Small Island Water Supply (SIWS) Model As A Solution To Environment-Based Disease Prevention In Small Islands (An Effort To Support Islands-Based Local Wisdom). 2023. Rp. 66.000.000,-2. Elimination Of Microplastic in Shelles Using Depuration Method To Reduce Health Risk In Communities In Galesong Coastal Coastal, Takalar District, Sulawesi Province Selatan. 2023. Rp. 68.000.000,-3. Health Risk Analysis of Microplastic Exposure In Communities In The Coastal Takalar District, South Sulawesi Province. 2021. Rp. 70.000.000,-		
Industry collaborations over the last 3 years			
Patents and proprietary rights	1. Human Health Risk Assessment Of Heavy Metals Via Consumption Of Fish From Kao Bay		2022
	2. Effects of Microplastic Consumption on Biota and Humans		2021



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	3. Microplastics in the Human Body	2021
Important publications over the last 3 years	<ol style="list-style-type: none">1. Health risk assessment of potentially toxic elements in Maros karst groundwater: a Monte Carlo simulation approach2. Prediction and Control Model of Musculoskeletal Disorders in the Instant Noodle Company in Makassar 2020–20503. Essential oil as a new tool for larvicidal <i>Aedes aegypti</i>: A systematic review	
Activities in specialist bodies over the last 3 years	Organisation Indonesian Enviromental Healty Society	Rule Member Period 2010-2026



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Staff Handbook

Name	PROF. IR. BAHARUDDIN NURKIN. M.SC. P.hD		
Post	Forest Management		
Link SINTA (Science and Technology Index)	https://sinta.kemdikbud.go.id/authors/profile/6019960		
Academic career	Undergraduate degree (Forest Science)	Hasanuddin University	1980
	Master (Forest Science)	Hasanuddin University	1986
	Doctorate (Forest Science)	Kyushu University	2018
Employment	Position	Employer	Period
	Professor	Lecturer	1980
Research and development projects over the last 3 years	1. Community Ebony Forest Management Model in Hasanuddin University Education Forest, Maros Regency. 2013. Rp. 100.000.000,-		
Industry collaborations over the last 3 years			
Patents and proprietary rights	Introduction to SILVICULTURE		2013
Important publications over the last 3 years	1. Function of tree components in agroforestry forms in Bolaromang Village, Buttono District, Gowa Regency 2. The structure, composition and utilization of plants at lembang buri tongkonan gardens in rembon district of tana toraja, Indonesia		



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3. The dynamics of variations in carbon biomass in community forest and agroforestry in South Sulawesi

Activities in specialist bodies over the last 3 years

Organisation
Indonesian Fisheries Society
ADS

Rule
Member
President

Period
2010-2026



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Staff Handbook

Name	PROF. DR. IR. DARMAWAN SALMAN, M.SI		
Post	Environmental Sociology		
Link SINTA (Science and Technology Index)	https://sinta.kemdikbud.go.id/authors/profile/6713930		
Academic career	Undergraduate degree (Forest)	Hasanuddin University	1985
	Master (Forest Science)	Hasanuddin University	1995
	Doctorate (Social)	Padjajaran University	2002
Employment	Position	Employer	Period
	Professor	Lecturer	2007
Research and development projects over the last 3 years	<ol style="list-style-type: none">1. Comparative Results Of Moving Ducks Sheders Based On Moving Distance In Pinrang District. 2023. Rp. 66,000,0002. Food Consumption Behavior Of Rural And Urban Communities During The Covid19 Pandemic In South Sulawesi. 2021. Rp. 70,000,0003. Soil Condition, Feed Content And Livestock Yield In Moving Graduation-Based Rice-Ducky Integration In South Sulawesi. 2021 Rp. 72,500,0004. Technopark Sagu Palopo Sustainable Management Model. 2020. Rp. 50,300,0005. The Role Of Social Capital In The Sustainability Of The Livelihood System Of Moving Farmers In Agricultural Rice Lands. 2020. Rp. 65,000,000		
Industry collaborations over the last 3 years			
Patents and proprietary rights	<ol style="list-style-type: none">1. Village Sociology: Silent Revolution and the Dance of Complexity 2020		



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<p>Important publications over the last 3 years</p>	<ol style="list-style-type: none"> 1. Farmer regeneration and knowledge co-creation in the sustainability of coconut agribusiness in Gorontalo, Indonesia 2. Promoting the New Superior Variety of National Hybrid Maize: Improve Farmer Satisfaction to Enhance Production 3. Ecological politics and sustainability of Arabic coffee (Coffea arabica L) in Timor Leste 4. Social Capital and Community Empowerment: Towards Sustainable Agricultural 5. Knowledge flow analysis of knowledge co-production-based climate change adaptation for lowland rice farmers in Bulukumba Regency, Indonesia 						
<p>Activities in specialist bodies over the last 3 years</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Organisation</th> <th style="width: 25%;">Rule</th> <th style="width: 25%;">Period</th> </tr> </thead> <tbody> <tr> <td>Indonesian Social Economic Society</td> <td>Member</td> <td>2010-2026</td> </tr> </tbody> </table>	Organisation	Rule	Period	Indonesian Social Economic Society	Member	2010-2026
Organisation	Rule	Period					
Indonesian Social Economic Society	Member	2010-2026					



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Staff Handbook

Name	Prof. Dr. Ir. Didi Rukmana, M.Sc		
Post	Natural Resource Economics		
Link SINTA (Science and Technology Index)	https://sinta.kemdikbud.go.id/authors/profile/6015054		
Academic career	Undergraduate degree (Agriculture)	Bogor University	1977
	Master (Aquatic Science)	Bogor University	1980
	Doctorate (Environmental Resource Management)	Colorado University USA	1992
Employment	Position	Employer	Period
	Professor	Lecturer	2002
Research and development projects over the last 3 years	1. Rice seed agribusiness development model as a business opportunity of hasanuddin university PTN-BH. 2020. Grant internal Unhas. Rp.75.000.000 2.		
Industry collaborations over the last 3 years	Project title: Suitability of Marine Space Utilization in the Coastal Area of Banggai Regency, Central Sulawesi Province. 2020 Partners: PT Vale		
Patents and proprietary rights	Title	Year	
	Statistical Analysis for Agricultural Socio-Economy	2020	
Important publications over the last 3 years	1. Analysis of trends and driving factors for plantation crop production 2. Social capital and income of cocoa farmers in peta village, Sendana District, Palopo City, South Sulawesi Province 3. Effectiveness of subsidized fertilizer distribution to rice farmer in Lemoe, Bacukiki District, Parepare, South Sulawesi		



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	4. Effectiveness of management and utilization of agricultural equipment and machinery assistance (ALSINTAN) by recipient farmer groups in South Sulawesi		
Activities in specialist bodies over the last 3 years	Organisation	Role	Period



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Staff Handbook

Name	Prof. Dr. Ir. Eymal Bahsar Demmalino, M.Si		
Post	Agricultural and Maritime Sociology and Anthropology		
Link SINTA (Science and Technology Index)	https://sinta.kemdikbud.go.id/authors/profile/6088441		
Academic career	Undergraduate degree (Agricultural Socioeconomics)	Hasanuddin University	1989
	Master (Socioanthropology)	Padjajaran University	2000
	Doctorate (Agricultural Socioeconomics)	Hasanuddin University	2011
Employment	Position	Employer	Period
	Professor	Lecturer	2022
Research and development projects over the last 3 years	1. Impact of tropical climate change and ecological adaptation patterns of horticultural farmers in south Sulawesi.2023. Unhas internal grants. Rp. 62.000.000 2. Recognition of massenrempulu people in enrekang district as an ethnic for strengthening democracy and human rights. 2023. Rp.62.000.000		
Industry collaborations over the last 3 years	Impact of tropical climate change and ecological adaptation patterns of horticultural farmers in south sulawesi.		
Patents and proprietary rights	Siratal Mustaqim: Study and Ideas on the Transformation of Maritime Civilization in the Bugis Country – Makassar, South Sulawesi	2020	



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Important publications over the last 3 years	<ol style="list-style-type: none">1. Livelihood vulnerability of smallholder farmers to climate change: A comparative analysis based on irrigation access in South Sulawesi, Indonesia. 2022.2. Social culture in sustainable production and consumption of mountain community food products in Sinjai District, South Sulawesi.2021								
Activities in specialist bodies over the last 3 years	<table border="1"><thead><tr><th data-bbox="475 548 774 616">Organisation</th><th data-bbox="774 548 1072 616">Role</th><th data-bbox="1072 548 1356 616">Period</th></tr></thead><tbody><tr><td data-bbox="475 616 774 869">Association of Indonesian Socioeconomic</td><td data-bbox="774 616 1072 869">Member</td><td data-bbox="1072 616 1356 869">2021-2023</td></tr></tbody></table>	Organisation	Role	Period	Association of Indonesian Socioeconomic	Member	2021-2023		
Organisation	Role	Period							
Association of Indonesian Socioeconomic	Member	2021-2023							



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Staff Handbook

Name	Prof. Dr. Fahrudin, M. Si.		
Post	Environmental Microbiology		
Link SINTA (Science and Technology Index)	https://sinta.kemdikbud.go.id/authors/profile/5975633		
Academic career	Initial academic appointment	Institution	Year
	Doctoral Degree Management of Natural Resources and Environment	Bogor Agricultural Institute	2007
	Master Biotechnology	Gadjah Mada University	2000
	Bachelor's degree Biology	Universitas Hasanuddin	1991
Employment	Position	Employer	Period
	Professor	Lecturer	2010
Research and development projects over the last 3 years	1. Use of Biochar from Activated Carbon to Increase Heavy Metal and Sulfate Reduction in Acid Mine Wastewater Treatment Reactor (AAT), Internal Grant 2023, Rp. 68,000,000,- 2. Isolation and Development of Bacterial Consortium from Sediments for Applications in Acid Water Wastewater Treatment Bioreactors. 2020. Rp 100.000.000,-		
Industry collaborations over the last 3 years			
Patents and proprietary rights	Title	Year	
	Biological Acid Mine Waste Water Treatment Method	2019	



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<p>Important publications over the last 3 years</p>	<ol style="list-style-type: none"> 1. Treatment of compost as a source of organic material for bacterial consortium in the removal of sulfate and heavy metal lead (Pb) from acid mine drainage. 2021. Journal of Degraded and Mining Lands Management 2. The Effect of Heavy Metal Lead (Pb) on the Growth of Ammonia- Degrading Bacteria and Physical Changes of Eichhornia crassipes in Groundwater Phytoremediation. 2021. International Journal on Advanced Science, Engineering and Information Technology 3. Antimicrofouling assays of Sargassum duplicatum extract in the settlement inhibition of Balanus sp. on wooden plank substrate. Chiang Mai University Journal of Natural Sciences 															
<p>Activities in specialist bodies over the last 3 years</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Organisation</th> <th style="text-align: left;">Role</th> <th style="text-align: left;">Period</th> </tr> </thead> <tbody> <tr> <td>Indonesian Biology Association (PBI)</td> <td>Member</td> <td>1994 - present</td> </tr> <tr> <td>Indonesian Microbiology Association</td> <td>Member</td> <td>1998- present</td> </tr> <tr> <td>Indonesian Bioremediation Forum (FBI)</td> <td>Member</td> <td>2015 - present</td> </tr> <tr> <td>Asian Federation of Biotechnology Indonesia Chapter</td> <td>Member</td> <td>2022 – 2027</td> </tr> </tbody> </table>	Organisation	Role	Period	Indonesian Biology Association (PBI)	Member	1994 - present	Indonesian Microbiology Association	Member	1998- present	Indonesian Bioremediation Forum (FBI)	Member	2015 - present	Asian Federation of Biotechnology Indonesia Chapter	Member	2022 – 2027
Organisation	Role	Period														
Indonesian Biology Association (PBI)	Member	1994 - present														
Indonesian Microbiology Association	Member	1998- present														
Indonesian Bioremediation Forum (FBI)	Member	2015 - present														
Asian Federation of Biotechnology Indonesia Chapter	Member	2022 – 2027														



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Staff Handbook

Name	Dr. Ir. Muhammad Farid Samawi, M.Si		
Post	Oceanography Chemistry and Marine Pollution		
Link SINTA (Science and Technology Index)	https://sinta.kemdikbud.go.id/authors/profile/5975218		
Academic career	Undergraduate degree (Aquaculture)	Hasanuddin	1990
	Master (Aquatic Science)	Bogor University	2000
	Doctorate (Environmental Resource Management)	Bogor University	2007
Employment	Position	Employer	Period
	Associate Professor	Lecturer	2010
Research and development projects over the last 3 years	<ol style="list-style-type: none"> 1. Use of Biochar from Activated Carbon to Increase Heavy Metal and Sulfate Reduction in Acid Mine Wastewater Treatment Reactor (AAT), Internal Grant 2023, Rp. 68,000,000,- 2. Ethno-conservation-based zoning of the Sapuka Archipelago Waters in Realizing Sustainable Fishery Resources. Basic Research on Domestic Cooperation. 2023. Rp. 150,970,000,- 		
Industry collaborations over the last 3 years	Project title: Suitability of Marine Space Utilization in the Coastal Area of Banggai Regency, Central Sulawesi Province. 2022 Partners: PT Vale Tbk		
Patents and proprietary rights	Title	Year	
	Seaweed Cultivation with Surface Method Using Fruit Plastic Baskets	2020	
Important publications over the last 3 years	<ol style="list-style-type: none"> 1. Status of Seaweed <i>K. alvarezii</i> Cultivation Sustainability as a Strategic Direction for Seaweed Management in Baubau City, Southeast Sulawesi. 2023. Jurnal Penelitian Pendidikan IPA 9 (2), 931-937 		





**KEMENTERIAN PENDIDIKAN, KEBUDAYAAN
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2. Ratio of Calcium Carbonat with Cadmium and Copper In Algae *Halimeda* Sp From Different Polluted Environment. Jurnal Ilmu Kelautan SPERMONDE. 2022, 8 (2), 19-23
3. Physical and chemical parameters of estuarine waters around south Sulawesi. The Indonesian Journal of Geography. 2021, 53 (3), 373-387
4. The Effect of Heavy Metal Lead (Pb) on the Growth of Ammonia- Degrading Bacteria and Physical Changes of *Eichhornia crassipes* in Groundwater Phytoremediation. International Journal on Advanced Science Engineering Information Technology. 2021, 11 (3): 994-1000
5. Rising Temperature Is a More Important Driver than Increasing Carbon Dioxide Concentrations in the Trait Responses of *Enhalus acoroides* Seedlings. Appl. Sci. 2021, 11, 2730. <https://doi.org/10.3390/app11062730>
6. Bioavailability exchangeable phase of heavy metals in sediments and contamination in shellfish at estuaries on the west coast of South Sulawesi, Indonesia. 2020. Aquaculture, Aquarium, Conservation & Legislation 13 (4), 2365-2374

Activities in specialist bodies over the last 3 years	Organisation	Role	Period
	ISPIKANI	Member	2019-2021