

Name	Prof. Dr. rer. nat. Muh Aris Marfai, S.Si., M.Sc.
Position	Lecturer in Faculty of Geography Universitas Gadjah Mada Speciality: Disaster Management
Academic career	<ol style="list-style-type: none"> 1. <i>Doctorate in Geography</i> (Justus-Liebig-Universitaet, Giessen, Germany, 2008) 2. <i>Graduate in</i> Earth System Analysis (International Institute for Geo Information Science and Earth Observation (ITC), The Netherlands, 2003) 3. Undergraduate in Physical Geography (Universitas Gadjah Mada, 1998)
Employment	-
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. International cooperation Bureau, Geography Faculty UGM (2010-2012) 2. Jakarta climate adaptation tools: In cooperation with Royal Haskoning PT, Knowledge for Climate, VU University, Delta Alliance (2011-2014) 3. Masterplan of national tourism strategic region of the Toba Lake region, STUPA Yogyakarta (2012) 4. Regional Economic Excellence, Kutai Kertanegara, Center of economic and public policy (PSEKP-UGM) (2012) 5. Tourism development on Penataran Tample, East Java. STUPA (2012) 6. Grant design and inventory land potency on the boarder area of Anambas Regency (2012) 7. Blue print project and feasibility study on the land border area. National Board of Boarder Area (BNPP) (2012) 8. Project of Development of the potency of the boarder area. National Board of Boarder Area (BNPP) (2012) 9. Strategic Advisory Service- Development of Strategic Area and Infrastructure of Sunda Strait (2012) 10. Coastal Management at Maputo and Macaneta Mozambique, Afrika (2012) 11. Ecosystem Based DDR at Dieng, Indonesia (2012) 12. Environmental Sustainability Study, Purworejo Regency, Indonesia (2013) 13. Masterplan of Drainage and Sewage , Tembilahan Regency, Sumatera Island, Indonesia (2013) 14. General Planning of Investation, City of Yogyakarta, Indonesia (2013) 15. General Planning of Investation, City of Bontang, Indonesia (2013) 16. Masterplan of Economic Region, City of Bontang, Indonesia (2013) 17. Developing Local Regulation Plan of Disaster Management in Bulungan Regency 2015, Collaboration between Faculty of Geography UGM and Bulungan Local Agency of Disaster Management (2015)

	<ol style="list-style-type: none"> 18. Border Investment Summit 2015, Collaboration between Faculty of Geography UGM and Ministry of Village, Development of Dissadvantaged Regions and Transmigration (2015) 19. Developing Border Investment Profile, Collaboration between Faculty of Geography UGM and Ministry of Village, Development of Dissadvantaged Regions and Transmigration (2015) 20. Developing A Comprehensive Document of Identification and Exploration Result of proposed multilateral cooperation, Collaboration between Faculty of Geography UGM and Ministry of Village, Development of Dissadvantaged Regions and Transmigration (2015) 21. Developing Detail Spatial Planning of Bobong Subdistric, Taliabu Regency, In collaboration with Taliabu Regional Planning and Development Agency (Bappeda) (2015) 22. Data inventory of settlements and slums of Yogyakarta City, Collaboration between Faculty of Geography and Yogyakarta Regional Planning and Development Agency (Bappeda) (2015) 23. Developing Strategic Environment Assessment of Asahan Regency, Collaboration between Research center for economic and public Policy (PSEKP) UGM and Asahan Regional Planning and Development Agency (Bappeda) (2015) 24. UGM-North Borneo Government Collaboration Project (Decree of Rector of Universitas Gadjah Mada No: 215/PV/SK/HT/2015) (2015) 25. Climate Change Expert in City Links Climate Adaptation Partnership Program (CAPP) Semarang, Indonesia – Gold Coast, Australia. USAID Program (2015) 26. Developing Strategic Environment Assessment (SEA) for Medium-term Development Plan of Taliabu Regency, In Collaboration with Taliabu Regency Regional Planning and Development Agency (Bappeda) (2016) 27. Transportation Infrastructures Mapping of taliabu Regency, In Collaboration with Taliabu Regency Regional Planning and Development Agency (Bappeda) (2016) 28. Assessing Hazard Prone Area of Taliabu Regency, In Collaboration with Taliabu Regency Regional Planning and Development Agency (Bappeda) (2016) 29. Developing Taliabu Regency Masterplan for Education, In Collaboration with Taliabu Regency Regional Planning and Development Agency (Bappeda) (2016) 30. General Planning of Investment in Merauke Regency, Collaboration between Research center for economic and public Policy (PSEKP) UGM and Merauke Regional Planning and Development Agency (Bappeda) (2016) 31. Developing Food Security Document of Kutai Kartanegara, Collaboration between Research center for economic and public Policy (PSEKP) UGM and Kutai Kartanegara Regional Planning and Development Agency (Bappeda) (2016)
--	--

	<p>32. Developing Strategic Environment Assessment of Kutai Kartanegara, Collaboration between Research center for economic and public Policy (PSEKP) UGM and Kutai Kartanegara Regional Planning and Development Agency (Bappeda) (2016)</p> <p>33. Developing Landslide contingency planning of Purworejo Regency; In collaboration with Purworejo Local Agency of Disaster Management (BPBD) (2016)</p> <p>34. Developing Landslide contingency planning of Purworejo Regency; In collaboration with Purworejo Local Agency of Disaster Management (BPBD) (2016)</p> <p>35. Heritage Mapping of Yogyakarta City; In collaboration with Yogyakarta Regional Planning and Development Agency (Bappeda) (2016)</p> <p>36. Disaster Risk Assessment of Malang City, East Java Province Collaboration between Faculty of Geography UGM and Disaster Management Board of Malang City (2017)</p> <p>37. Information System Design of Disaster Management in Purworejo Regency Collaboration between Faculty of Geography and Disaster Management Board of Purworejo Regency (2017)</p> <p>38. Master Plan Designing of Integrated Tourism Village of Purworejo Regency Collaboration between Faculty of Geography and Tourism and Cultural Agency of Purworejo Regency (2017)</p> <p>39. Village Economic Potency and Network System Mapping for Supporting Village and Rural Special Product Diversification (PRUDES and PRUKADES) in Tourism Area of Menganti Coastal, Kebumen Regency Collaboration between Faculty of Geography UGM and Regional Development Board of Kebumen Regency (2017)</p> <p>40. Arranging Medium-term Development Plan of Papua Barat Province, Collaboration between Research center for economic and public Policy (PSEKP) UGM and Regional Planning and Development Agency (Bappeda) of Papua Barat (2017)</p> <p>41. Arranging Village Profile Database in Border Area; Collaboration between Faculty of Geography and Ministry of Village, Disadvantage Region and Transmigration (2017)</p>
Industry collaborations over the last 5 years	-
Patents and proprietary rights	-
Important publications over the last 5 years	<p>1. Marfai MA. 2012. Digital Elevation Model Data Integration and GIS Raster Operation For Flood Inundation Hazard Identification Due to Sea Level Rise: Preliminary Study of Coastal Zone in Central Java. National Seminar on Information for Disaster Studies in Implementing Sustainable Development and Spatial Intelligence Community Development. Pp 364 – 375. ISBN : 978-979-1533-08-9.</p>

	<ol style="list-style-type: none"> 2. Hardoyo SR, Marfai MA, Ni'mah NM, Mukti RY, Zahro Q, Halim Anisa. 2012. Community Adaptation strategies Due to Coastal Flood Disaster in Pekalongan. Cahaya Press. ISSN: 978-602-19549-3-5. 3. Marfai MA. Pratomoatmojo NA, Hidayatullah T, Nirwansyah AW, Gomareuzzaman. 2012. Coastal Vulnerability Based on Shorelines Changes and Flood Tides. (Case Study : Pekalongan). Cahaya Press. ISSN: 978-620-19549-4-2. 4. Marfai MA, Sekaranom AB. 2012. Geographic information systems and its Applications to Flood Hazard Analysis. Proceeding of National Seminar on Utilization Technology of remote sensing and Geographic Information Systems in the Assessment of Disaster Based on Risk Reduction".Geography Faculty, Muhammadiyah University Press. ISSN: 978-979-636-137-3. . 5. Hadmoko DS, Wiguna PPK, Marfai MA. 2012. GIS Aplication for Lahar Flood Lahar Hazard Modeling in Gendol and Opak Watershed, Proceeding of National Seminar on Utilization Technology of remote sensing and Geographic Information Systems in the Assessment of Disaster Based on Risk Reduction".Geography Faculty, Muhammadiyah University Press. ISSN: 978-979-636-137-3 (March). 6. Mardiatno D, Marfai MA, Rahmawati K, Tanjung R, Sianturi RS, Mutiarni YS. 2012. Multirisk Assesment of Coastal and River Floods in Pekalongan Utara. Cahaya Press. ISSN: 978-602-19549-9-7 . 7. Marfai MA, Sekaranom,AB. 2012. Integration Approach of Remote Sensing Technique and Geographic Information System for Risk Assesment Due to Coastal Inundation under enhanced Sea Level Rise.Page 27-36, Indonesian Toray Science Foundation, Seminar on Science and Technology. 8 February 2012. Jakarta. 8. Marfai MA. 2012. book: Introduction on environmental etic and local wisdom (in bahasa), Gadjahmada Univ Press. Isbn: 979-420-789-6. 9. Retnowati A, Marfai MA, Sumantyo JT. 2012. Rip currents signatures zone detection on alos palsar image at parangtritis beach, Indonesia, Indonesian Journal of Geography 44(1) 12-27. 10. Soedarsono, Marfai MA. 2012. Monitoring the change of land subsidence in the nothern of Semarang due to change of landuse on alluvial plain. Analele University of Oradea – Seria Geografie 1:54-65. 11. Sekaranom AB, Marfai MA, Anggraini DF, Nucifera F. 2012. Application og Geographic Information System to Analyze Wind Resources in Indonesia Coastal Area. National Seminar Science Engineering and Technology. Brawijaya University Malang. 12. Cahyadi A, Marfai MA, Nucifera F, Rahmadana ADW. 2012. Landuse Planning in Karst Area Based on Land Capability Analysis and Water Resource Protection Area Case Study in Ponjong District Gunungkidul Yogyakarta. National Seminar
--	---

	<p>Science Engineering and Technology 2012, Brawijaya University Malang.</p> <p>13. Marfai MA. 2012. Preliminary assessment of coastal erosion and local community adaptation in Sayung coastal area, Central Java – Indonesia, International Journal of Quaestiones Geographicae. Volume 31, Issue 3, Pages 47–55, ISSN (Online) , ISSN (Print) 0137-477X, DOI: 10.2478/v10117-012-0028-2.</p> <p>14. Soenarto, Marfai MA. 2012. Tsunami Potentials and Community Disaster-Preparedness, Case Study of Sumberagung Banyuwangi, East Java village. Jurnal of Geographic Forum UMS, Vol. 26(1):17-28.</p> <p>15. Marfai MA. 2012. book: Tidal flood in Jakarta coastal area, an introductory study (in bahasa). Graha Ilmu press. ISBN 9789797569365.</p> <p>16. Marfai MA, Cahyadi A. 2012. Land Suitability Assesment for Supporting Agricultural Development in the State Border Area. Case Study Merauke District Papua Province. National Journal Bumi Lestari Udayana University Bali Vol.12(2);260-267. ISSN 1411-9668.</p> <p>17. Marfai MA, Cahyadi A. 2012. Identification of Volcanic Facies for Analysis of Eruption (Case Study Bedog Watershed Yogyakarta Province. Jurnal Riset dan Pertambangan 22(2):73-80.</p> <p>18. Marfai MA, Cahyadi A. 2012. Vulnerability of the coastal area due to tsunamiin Yogyakarta, regional analysis and local site effect (in bahasa). Journal Spasial Vol.10(2), page 1-6, Univ Negeri Jakarta.</p> <p>19. Arisanty D, Sartohadi J, Marfai MA, Sri Hadmoko D. 2012. The Long-Term Morphodynamic of Barito Delta, Southern Kalimantan, Indonesia. Journal of Environmntal Science and Engineering B1; 510-518.</p> <p>20. Purnama S, Marfai MA. 2012. Saline Water Intrusion Toward Groundwater: Issues and its Control, Journal of Natural Resources and Development Vol. 2; 25-32.</p> <p>21. Udo Nehren ,Jishnu Subedi , Ina Yanakieva,Simone Sandholz , Jibraj Pokharel, Ajay Chandra Lal , Inu Pradhan-Salike, Muh Aris Marfai, Danang Sri Hadmoko,Günther Straub. 2013. Community perception on climate change and climate-related disaster preparedness in Kathmandu Valley, Nepal. Journal of Natural Resources and Development 2013; 04: page 35-57.</p> <p>22. Ward, P.J., Pauw, W.P., Van Buuren, M.W., Marfai, M.A., 2013. Governance of flood risk management in a time of climate change: the cases of Jakarta and Rotterdam. Environmental Politics, 22(3), 518-536, doi:10.1080/09644016.2012.683155.</p> <p>23. Marfai MA, Cahyadi A, Anggraini DF. 2013. Typology, Dynamics, and Potential Disaster in the Coastal Karst Area Gunung Kidul Regency. Forum Geografi, Vol 27 (2). Pp 151 – 162.</p> <p>24. Marfai MA, Cahyadi A, Nugraha H. 2013. Pendekatan Geomorfologi untuk Kajian Kerawanan Bencana di Dusun</p>
--	---

	<p>Tampiran Kabupaten Pacitan. Proceeding: National Seminar on Optimizing the utilization of Geospatial Information for Autonomy 2013 (in Bahasa). ISBN: 978-979-636-152-6. Pp54-57.</p> <p>25. Hamidah N. Rijanta, Setiawan B, Marfai, MA. Role of Geographic Information Systems in a More Progressive Development of Urban Settlement. Proceeding:, National Seminar on Optimizing the utilization of Geospatial Information for Autonomy 2013 (in Bahasa). ISBN: 978-979-636-152-6.Pp. 69-75.</p> <p>26. Cahyadi A, Marfai MA, Tivianto T, Wulandari, Hidayat W, 2013. Analysis of Spatial Distribution of Groundwater Salinity in Pulau Pramuka Kepulauan Seribu, Special Capital Region of Jakarta. Proceeding National Seminar on Optimizing the utilization of Geospatial Information for Autonomy 2013 (in Bahasa). ISBN: 978-979-636-152-6. Pp19-21.</p> <p>27. Marfai MA. Preliminary Study on Flood Risk Reduction Through Eco-Polder System Management. Proceeding Joint Scientific Program and One Day Seminar on Ecosystem Based Disaster Risk Reduction 2013. ISBN : 978-602-14856-1-5. Pp 245 – 252.</p> <p>28. Setiawan MA, Sartohadi J, Mardiatno D, Marfai MA, Hadmoko DS. Revealing The Soil Erosion Risk Management in Indonesia. Proceeding Joint Scientific Program and One Day Seminar on Ecosystem Based Disaster Risk Reduction 2013. ISBN : 978-602-14856-1-5. Pp 233 – 244.</p> <p>29. Septriayadi R, Marfai MA, Hamhaber J. Perception and Response to Tidal Flood Inindation (Case Study : Tegal Municipality). Proceeding Joint Scientific Program and One Day Seminar on Ecosystem Based Disaster Risk Reduction 2013. ISBN : 978-602-14856-1-5. Pp 120-134.</p> <p>30. Marfai MA, Triyanti A. Community-Based Flood Disaster Management (Comparative Study of Jakarta and Surakarta City). Proceeding Joint Scientific Program and One Day Seminar on Ecosystem Based Disaster Risk Reduction 2013 (in Bahasa). ISBN : 978-602-14856-1-5. Pp 93 – 102.</p> <p>31. Marfai MA, Cahyadi A, Sekaranom AB. 2014. Profiles of The Marine Notch In The Baron Coastal Area, Indonesia. Arabian Journal of Geoscience. DOI 10.1007/s12517-013-1232-7</p> <p>32. Marfai MA. 2014. Impact of Sea Level Rise to Coastal Ecology : A Case Study on the Northern Part of Java Island, Indonesia. International Journal of Quaestiones Geographicae 33 (1) : 107 – 114.</p> <p>33. Sakijege T, Sartohadi J, Marfai MA, Kassenga G, Kasala S. 2014. Government and Community Involvement in Environmental Protection and Flood Risk Management: Lessons from Keko Machungwa, Dar es Salaam, Tanzania. Journal of Environmental Protection, 5, 760-771. http://dx.doi.org/10.4236/jep.2014.59078</p> <p>34. Budiyono Y, Aerts J, Brinkman J, Marfai MA, Ward P. 2014. Flood risk assessment for delta mega-cities: a case study of</p>
--	--

	<p>Jakarta. Journal of Nat Hazards. DOI 10.1007/s11069-014-1327-9</p> <p>35. Sakijege, T., Sartohadi, J., Marfai, M.A., Kassenga, G.R. & Kasala, S.E., 2014, Assessment of adaptation strategies to flooding: A comparative study between informal settlements of Keko Machungwa in Dar es Salaam, Tanzania and Sangkrah in Surakarta, Indonesia, Jambá: Journal of Disaster Risk Studies 6(1), Art. #131, 10 pages. (http://www.sersc.org/journals/IJDRBC/vol5/2.pdf)</p> <p>36. Sakijege, T., Sartohadi, J., Marfai, M.A., Kassenga, G.R. & Kasala, S.E., 2014, Recovery after floods: A case of rental housing in Keko Machungwa Informal Settlement, Dar es Salaam, Tanzania, International Journal of Disaster and Business Continuity 5; 15-28 (http://dx.doi.org/10.14257/ijdrbc.2014.5.02)</p> <p>37. Budiyono Y., Aerts J., Brinkman J., Marfai M.A., Ward, P., 2015. Flood Risk Assessment for delta mega-cities: a case study of Jakarta, Natural Hazard 75: 389-413.</p> <p>38. Marfai, M.A., Sekaranom, A.B., Ward, P., 2015, Community responses and adaptation strategies toward flood hazard in Jakarta, Indonesia, Natural Hazards, Springer 75:1127-1144.</p> <p>39. Peters G, Butsch C, Krachten F, Kraas F, Namperumal S, Marfai M.A., 2015, Analyzing Risk and Disaster in Megaurban Systems – Experiences from Mumbai and Jakarta (Journal of GRF Davos Planet@Risk Special Issue on the 5th IDRC Davos 2014, March 2015, Vol. 3; No. 1; 107-117, https://planet-risk.org/index.php/pr/issue/view/11)</p> <p>40. Mey D., J. Sartohadi, D. Mardiatno, M.A. Marfai, 2015, Prediction of soil organic carbon loss due to erosion in Girindulu Watersheds. Journal of Degraded and Mining Lands Management. Vol. 2; No. 3; 327-334 (http://www.jdmlm.ub.ac.id/index.php/jdmlm/article/view/117)</p> <p>41. Marfai M.A., Rahayu E., Triyanti A., 2015, Role of Local Wisdom and Social Capital in Disaster Risk Reduction and Coastal Development, Yogyakarta: Gadjah Mada University Press.</p> <p>42. Marfai M.A., Tyas D.W., Nugraha I., Ulya A.Y., Riasasi W., 2016, The Morphodynamics of Wulan Delta and Its Impacts on the Coastal Community in Wedung Subdistrict, Demak Regency, Indonesia, Journal of Environmental Protection. 7: 60-71.</p> <p>43. Dewi R.S., Bijker W., Stein A., Marfai M.A., 2016, Fuzzy Classification for Shoreline Change Monitoring in a Part of the Northern Coastal Area of Java, Indonesia, Journal of Remote Sensing 8(3), 190; doi:10.3390/rs8030190.</p> <p>44. Marfai MA, Dibyosaputo S, Fatchurohman H, 2016, (Book) Disaster Analysis for Regional Development, Case Study in Batang Regency (in Bahasa Indonesia), Yogyakarta: Gadjah Mada University Press.</p> <p>45. Nehren U, Thai HHD, Marfai MA, Raedig C, Alfonso S, Sartohadi J, & Castro C. 2016. Ecosystem Services of Coastal</p>
--	--

	<p>Dune System for Hazard Mitigation: Case Studies from Vietnam, Indonesia, and Chile In Raud FG, Sudmeier-Rieux K, Estrella M, Nehren U, Ecosystem-Based Disaster Risk Reduction and Adaptaion in Practice (pp. 401-431), Switzerland: Springer International Publishing. DOI 10.1007/978-3-319-43633-3_18</p> <p>46. Mardiatno, D. dan Marfai, M.A. 2017. (Book) Disaster Analysis for Watershed Management: Case Study in Upper stream of Comal Watershed (in Bahasa Indonesia). Yogyakarta: UGM Press.</p> <p>47. Budiyono Y., Marfai M.A., Aerts J., Moel, H., Ward, P, 2017. Flood Risk in Polder Systems in Present Jakarta and in the Future, in Djalante R., Garschagen, M., Thomalla, F. And Shaw, R.: Disaster Risk Reduction in Indonesia – Progress, Challenges, and Issues. Switzerland: Springer International Publishing.</p> <p>48. Setiawan C, Suratman, Marfai MA, 2017, The Relationship between Total Income and Groundwater Utilization on Fluvio-marine Landform Area in Jakarta, Forum Geografi 31 (1) DOI: 10.23917/forgeo.v31i1.2851.</p> <p>49. Hamidah N, Rijanta, Setiawan B, Marfai MA, 2017, “Kampung” as Formal and Informal Integration Model (Case Study: Kampung Pahandut, Central Kalimantan Province, Indonesia, Forum Geografi 31 (1) DOI: 10.23917/forgeo.v31i1.3047.</p> <p>50. Ervita K, Marfai MA, 2017, Shoreline Change Analysis in Demak, Indonesia, Journal of Environmental Protection 8 (08), 940</p> <p>51. Hamidah N, Rijanta, Setiawan B, Marfai MA, 2017, Formal and Informal Analysis of Physical Integration of Kahayan River Side Settlement, Palangka Raya (in Bahasa Indonesia), Tataloka, 19 (3)</p> <p>52. Giyarsih SR and Marfai MA, 2017, The perception of stakeholders on regional transformation on the outskirts of Yogyakarta City, Indonesia, GeoJournal https://doi.org/10.1007/s10708-017-9812-9</p> <p>53. Prasad, JR, Marfai MA, Jatmiko RH, 2017, Watershed Based Web GIS: Case Study of Palopo Watershed Area South Sulawesi, Indonesia, Analele Universitatii din Oradea, Seria Geografie, XXVII, 2/2017: 175-204</p>
Activities in specialist bodies over the last 5 years	-