DAFTAR PUSTAKA

Abolmaali, S.M.R., Tarkesh, M. and Bashari, H. 2018. MaxEnt Modeling for Predicting Suitable Habitats and Identifying the Effects of Climate Change on A Threatened Species, *Daphne mucronata*, in Central Iran. *Ecological Informatics*. 43: 116–123.

Alamsjah, F., Agustien, A., & Alam, T.W.N. 2023. Uji Antibakteri Ekstrak Rimpang Koenih Rimbo (*Curcuma sumatrana* Miq.) Tumbuhan Endemik Sumatera terhadap Bakteri Gram Positif. *Bioscientist: Jurnal Ilmiah Biologi*. 11(1): 561–570.

Ali, F., Khan, N., Khan, A.M., Ali , K., Abbas, F. 2023. Species Distribution Modelling of *Monotheca buxifolia* (Falc.) A. DC.: Present Distribution and Impacts of Potential Climate Change. *Heliyon*. 9(2).

Allouche, O., Tsoar, A., & Kadmon, R. 2006. Assessing the Accuracy of Species Distribution Models: Prevalence, Kappa and the True Skill Statistic (TSS). *Journal of Applied Ecology*. 43: 1223–1232.

Anand V, Oinam, B., Singh, I.H. 2021. Predicting the current and future potential spatial distribution of endangered *Rucervus eldii eldii* (sangai) using MaxEnt model. *Environ Monit Assess.* 193: 147.

Ardiyani, M., Anggara, A., & Leong-Škornic˘ ková, J. 2011. Rediscovery of *Curcuma sumatrana* (Zingiberaceae) Endemic to West Sumatra. *Blumea*. 56: 6–9.

Baldwin, R.A. 2009. Use of Maximum Entropy Modeling in Wildlife Research. *Entropy*. 11(4): 854–866.

Beentje, H.J. 2010. The Kew Plant Glossary: An Illustrated Dictionary of Plant Terms.

Bijmoer, R, Scherrenberg, M, & Creuwels, J. 2023. Naturalis Biodiversity Center (NL) - Botany. Naturalis Biodiversity Center. Occurrence dataset https://doi.org/10.15468/ib5ypt. Diakses 13 April 2023

BKSDA, 2012. *Buku Informasi Kawasan Konservasi Balai KSDA Sumatera Barat*. BKSDA Sumatera Barat.

Chen, L., Huang, J.G., Alam, S.A., Zhai, L.H., Dawson, A., Stadt, K.J., & Comeau, P.G. 2017. Drought Causes Reduced Growth of Trembling Aspen in Western Canada. *Glob Chang Biol.* 23: 2887–2902.

Cubey, R. 2022. Royal Botanic Garden Edinburgh Herbarium (E). Royal Botanic Garden Edinburgh. Occurrence dataset https://doi.org/10.15468/ypoair. Diakses 13 April 2023

De Vogel, E.F. 1987. *Manual of Herbarium Taxonomy Theory and Practice*. Unesco. Jakarta.

Djarwaningsih, T. 2002. Persebaran Geografi Jenis-Jenis *Pimelodendron* (Euphorbiaceae) Di Malesia. *Berita Biologi.* 6: 509–514.

Du Z, He Y, Wang H, Wang C, Duan Y. 2021. Potential Geographical Distribution and Habitat Shift of the Genus *Ammopiptanthus* in China under Current and Future Climate Change Based on the MaxEnt Model. *J Arid Environ.* 184: 104238. DOI: 10.1016/j.jaridenv.2020.104328.

Eviati, Sulaeman. 2009. *Analisis Kimia Tanah, Tanaman, Air dan Pupuk*. Balai Penelitian Tanah. Bogor.

Fachrul, M.F. 2007. *Metode Sampling Bioekologi*. Bumi Aksara. Jakarta.

Fathia, A.A, Hilwan, I., Wibowo, C. 2019. Rehabilitasi Lahan pada Area Bekas Terbakar dengan Jenis Tanah yang Berbeda di Kabupaten Gunung Mas Kalimantan Tengah. *Media Konservasi*. 24(1): 20-28.

Fitriani, A., Arifin, Y.F., Hatta, G.M., Wahdah, R., & Payung, D. 2022. Suitability Habitat Model of *Mangifera rufocostata* under Different Climatic and Environmental Conditions. *Biodiversitas Journal of Biological Diversity*. 23: 4570–4577.

Gauthier, P., Pons, V., Letourneau, A., Klesczewski, M., Papuga, G., & Thomson, J.D. 2017. Combining Population Monitoring with Habitat Vulnerability to Assess Conservation Status in Populations of Rare and Endangered Plants. *J. Nat. Conserv*. 37: 83-95.

Gong L, Li X, Wu S, Jiang L. 2022. Prediction of Potential Distribution of Soybean in the Frigid Region in China with Maxent Modeling. *Ecological Informatics*. 72: 101834.

Gunawan, G., Anwar, K., Gafur, A., Hilaliyah, R., Waro, A.A., Hikmah, N., Sakinah, S., Erwansyah, M., Susilawati, D., Lestari, R.D., & Triana, D. 2023. Predicting the Current Potential Geographical Distribution of *Baccaurea* (*B. lanceolata* and *B. motleyana*) in South Kalimantan, Indonesia. *Biodiversitas Journal of Biological Diversity*. 24: 930-939.

Gunawan, G., Sulistijorini, S., Chikmawati, T., Sobir, S. 2021. Predicting Suitable Areas for *Baccaurea angulata* in Kalimantan, Indonesia using Maxent Modelling. *Biodiversitas Journal of Biological Diversity*. 22(5): 2646–2653.

Halimatussakdiah, Amna, U., & Mardina, V. 2020. Antioxidant Activity of Methanol Extract of *Diplazium esculentum* (Retz.) Sw. Leaves Collected from Aceh. IOP Conference Series: Materials Science and Engineering, 725(012082): 1–7.

Hammer, Ø., Harper, D.A.T., & Ryan, P.D. 2001. PAST: Paleontological Statistics Software Package for Education and Data Analysis. *Palaeontologia electronica*. 4(1): 9.

Harapan, T.S, Agung, A.P., Handika, H., Novarino, W., Tjong, D.H., & Tomlinson, K.W. 2020. New Records and Potential Geographic Distribution of Elongated Caecilian, *Ichthyophis elongatus* Taylor, 1965 (Amphibia:

Gymnophiona: Ichthyophiidae), Endemic to West Sumatra, Indonesia. *Check List.* 16(6): 1695–1701.

Harapan, T.S., Nurainas, Syamsuardi, & Taufiq, A. 2022. Identifying the Potential Geographic Distribution for *Castanopsis argentea* and *C. tungurrut* (Fagaceae) in the Sumatra Conservation Area Network, Indonesia. *Biodiversitas*. 23(4): 1726–1733.

Haq, S.M., Waheed, M., Darwish, M., Siddiqui, M.H., Goursi, U.H., Kumar, M., Song, L., & Bussmann, R.W. 2024. Biodiversity and Carbon Stock of the Understory Vegetation as Indicators for Forest Health in the Zabarwan Mountain Range. Indian Western Himalaya. *Ecological Indicators*. 159

Hernandez, P.A., Franke, I., Herzog, S.K, Pacheco, V., Paniagua, L., Quintana, H., & Young B.E. 2008. Predicting Species Distributions in Poorly-Studied Landscapes. *Biodiversity and conservation.* 17: 1353–1366.

Hijmans, R.J. 2015. Package 'raster'. R Package. https://cran.rproject.org/web/packages/raster/index.html. Diakses pada 26 Maret 2023.

Hossain, M.A, Akamine, H., Ishimine, Y., Teruya, R., Aniya, Y. & Yamawaki, K. 2009. Effects of Relative Light Intensity on the Growth, Yield and Curcumin Content of Turmeric (*Curcuma longa* L.) in Okinawa, Japan. *Plant production science*. 12(1): 29–36 .

Huang, Y.I., Y. Zeng, P. Jiang, H. Chen, and J. Yang. 2022. Prediction of Potential Geographic Distribution of Endangered Relict Tree Species Dipteronia Sinensis in China Based on Maxent and GIS. *Polish Journal Environmental Studies*. 31(4): 3597.

Idrees, M., Pathak, M.L., Memon, N.H., Khan, S., Zhang, Z.Y. and Gao, X.F., 2021. Morphological and Morphometric analysis of genus Eriobotrya Lindl.(Rosaceae). *JAPS: Journal of Animal & Plant Sciences*. 31(4).

Indriyanto. 2006. *Ekologi Hutan*. Bumi Aksara. Jakarta.

IPNI. 2024. International Plant Names Index. The Royal Botanic Gardens, Kew, Harvard University Herbaria & Libraries and Australian National Botanic Gardens. Diakses pada 10 Mei 2024.

Ito, H., Hayakawa, K, Ooba, M., & Fujii, T. 2020. Analysis of Habitat Area for Endangered Species Using Maxent by Urbanization In Chiba, Japan. *Intl J Geomate*. 18: 94-100. DOI: 10.21660/2020.68.5721.

Juliasih, N.K.A. & Adnyana, I.M.D.M., 2023. Ethnopharmacology and Species diversity of Pteridophyta in Cyathea Park, Bali: A Field study and Literature Review. *Research Square*. 1-21.

Kaiser, H.F. 1960. The Application of Electronic Computers to Factor Analysis. *Educational and Psychological Measurement*. 20: 141–151.

Larsen, K., Ibrahim, H., Khaw, S.H., & Saw, L.G. 1999. *Gingers of Peninsular Malaysia and Singapore*. Natural History Publications. Kinabalu.

Laumonier, Y. 1997. The Vegetation and Physiography of Sumatra. Editor MJA Werger. Kluwer Academic Publisher. Netherland.

Leong-Škorničková, J., Soonthornkalump, S., Lindström, A.J., Niwesrat, S., Lim, S.Q. and Suksathan, P., 2023. *Curcuma maxwellii* and *C. rubroaurantiaca* (Zingiberaceae, Zingiberoideae), two new species from Thailand. *PhytoKeys*. 235: 237.

Mahatara, D, Acharya A.K., Dhakal B.P., Sharma D.K., Ulak S., Paudel P. 2021. MaxEnt Modelling for Habitat Suitability of Vulnerable Tree *Dalbergia latifolia* in Nepal. *Silva Fenn*. 55: 10441. DOI: 10.14214/sf.10441.

Marfai, M.A., Pratomoatmojo, N.A., Hidayatullah, T., Nirwansyah, A.W., & Gomaeruzzaman, M. 2011. Model Kerentanan Wilayah Pesisir Berdasarkan Perubahan Garis Pantai dan Banjir Pasang (Studi Kasus: Wilayah Pesisir Pekalongan). Red Carpet Studio. Yogyakarta.

Mawazin, & Subiakto, A. 2013. Keanekaragaman dan Komposisi Jenis Permudaan Alam Hutan Rawa Gambut Bekas Tebangan di Riau. *Indonesian Forest Rehabilitation Journal*. 1(1): 59–73.

Mcshea, W.J. 2014. What are the Roles of Species Distribution Models in Conservation Planning?. Environmental Conservation. 41(2): 93–96.

Merow, C., Smith, M.J., & Silander, J.A. 2013. A Practical Guide to MaxEnt for Modeling Species' Distributions: What It Does, and Why Inputs and Settings Matter. Ecography. 36(10): 1058–1069.

Miquel, F.A.W. 1861. Flora van Nederlandsch Indië, Erste Bijvoegsel. Amsterdam.

Mueller-Dombois, D. & Ellenberg, H. 1974. Aim and Methods of Vegetation Ecology. Wiley International ed. John Wiley and Sons. Chichester-New York.

Nawawi, J.A. 2021. Efek Pemberian Ekstrak Etanol Rimpang Kunyit Liar Endemik Sumatera (*Curcuma sumatrana*, Zingiberaceae) terhadap Tingkat Kecerdasan, Struktur Histologi Otak dan Konsentrasi Malondialdehid Mencit yang Diinduksi Monosodium Glutamat. Skripsi. Biologi FMIPA Universitas Andalas. Padang.

Newman, M., Lhuillier, A., & Poulsen, A.D. 2004. Checklist of the Zingiberaceae of Malesia. *Blumea. Supplement*. 16: 1–166.

Nguyen TT, Gliottone I, Pham MP. 2021. Current and Future Predicting Habitat Suitability Map of *Cunninghamia konishii* Hayata Using Maxent Model under Climate Change in Northern Vietnam. *Eur J Ecol*. 7: 1-17. DOI: 10.17161/eurojecol.v7i2.15079.

Nurainas & Ardiyani, M. 2019. *Curcuma sumatrana*. The IUCN Red List of Threatened Species 2019.

Nurdin. 2012. Morfologi, Sifat Fisik dan Kimia Tanah Inceptisols dari Bahan Lakustrin Paguyaman-Gorontalo Kaitannya dengan Pengelolaan Tanah. *Jurnal Agroteknotropika*. 1(1): 13–22.

Odum, E.P. 1996. Dasar-Dasar Ekologi. Gadjah Mada University Press. Yogyakarta.

Pearson, R.G, Raxworthy, C.J, Nakamura, M., & Peterson, A.T. 2007. Predicting species distributions from small numbers of occurrence records: a test case using cryptic geckos in Madagascar. Biogeo. 34: 102–117.

Phillips, S.J, Anderson, R.P., & Schapire, R.E. 2006. Maximum entropy modeling of species geographic distributions. Ecological Modelling. 190: 231–259.

Phillips, S.J. 2002. A Brief Tutorial on MaxEnt. Acta Biochimica Polonica. 49(3): 633–641.

Pranata S, Sulistijorini, & Chikmawati, T. 2019. Ecology of Rafflesia arnoldii (Rafflesiaceae) in Pandam Gadang West Sumatra. *J Trop Life Sci* 9: 243–251. DOI: 10.11594/jtls.09.03.05.

Pusat Penelitian Tanah. 1983. *Term Of Reference* Survei Kapabilitas Kesuburan Tanah. Departemen Pertanian Bogor. Bogor.

Rahman, A.T., Rafia, Jethro, A., Santoso, P., Kharisma, V.D., Murtadlo, A.A.A., Purnamasari, D., Soekamto, N.H., Ansori, A.N.M., Kuswati, Mandeli, R.S., Aledresi, K.A.M.S., Yusof, N.F.M., Jakhmola, V., Rebezov, M., Zainul, R., Dobhal, K., Parashar, T., Ghifari, M.A., & Sari, D.A.P. 2022. In Silico Study of the Potential of Endemic Sumatra Wild Turmeric Rhizomes (*Curcuma sumatrana*: Zingiberaceae) as Anti-Cancer. *Pharmacogn J*. 14(6): 806–812.

Rahmi, N., Nurainas, Syamsuardi. 2023. Diversity, Distribution of the Ginger Family (Zingiberaceae) in West Sumatra Based on Herbarium Specimens and Its Potency for Genetic Resource Essential Oil. IOP Conference Series Earth and Environmental Science. 1255(1).

Rambey, R., Susilowati, A., Rangkuti, A.B., Onrizal, O., Desrita, Ardi, R., Hartanto, A. 2021. Plant Diversity, Structure and Composition of Vegetation around Barumun Watershed, North Sumatra, Indonesia. *Biodiversitas*. 22(8): 3250–3256.

Remya K, Ramachandran A, Jayakumar S. 2015. Predicting the current and future suitable habitat distribution of Myristica dactyloides Gaertn using MaxEnt model in the Eastern Ghats, India. Ecol Eng 82: 184–188. DOI: 10.1016/j.ecoleng.2015.04.053.

Santoro, A., Piras, F., Yu, Q. 2023. Spatial Analysis of Deforestation in Indonesia in the Period 1950–2017 and the Role of Protected Areas. *Biodiversity and Conservation*. 1-27.

Santoso, B. 2006. Pemberdayaan Lahan Podsolik Merah Kuning dengan Tanaman Rosela (*Hibiscus sabdariffa* L.) di Kalimantan Selatan. *Perspektif*. 5(1): 1–12.

Selamoglu, Z., Akgul, H., & Dogan, H. 2016. Environmental Effects on Biologic Activities of Pollen Samples Obtained from Different Phytogeographical Regions in Turkey. *Fresenius Environmental Bulletin*. 25: 2484–2489.

Semwal, P., Painuli, S., Painuli, K.M., Antika, G., Tumer, T.B., Thapliyal, A., Setzer, W.N., Martorell, M., Alshehri, M.M., Taheri, Y., Daştan, S.D., Ayatollahi, S.A., Petkoska, A.T., Sharifi-Rad, J., & Cho, W.C. 2021. *Diplazium esculentum* (Retz.) Sw.: Ethnomedicinal, Phytochemical, and Pharmacological Overview of the Himalayan Ferns. *Oxidative Medicine and Cellular Longevity*. 2021(1).

Shi, F., Liu, S., An, Y., Sun, Y., Zhao, S., Liu, Y. dan Li, M. 2023. Climatic Factors and Human Disturbance Influence Ungulate Species Distribution on the Qinghai-Tibet Plateau. *Science of The Total Environment*. 869.

Shi, J., Xia, M., He, G, Gonzalez, N.C, Zhou, S., Lan, K., Ouyang, L., Shen, X., Jiang, X., Cao, F. Li, H. 2024. Predicting *Quercus gilva* Distribution Dynamics and Its Response to Climate Change Induced by GHGs Emission through MaxEnt Modeling. *Journal of Environmental Management*. 357. 120841.

Smith, RL. 1977. *Elements of Ecology and Field Biology*. Harper & Row Publisher. New York.

Sobuj, N.A. & Rahman, M., 2011. Comparison of Plant Diversity of Natural Forest and Plantations Of Rema-Kalenga Wildlife Sanctuary of Bangladesh. *Journal of Forest and Environmental Science*. 27(3): 127-134.

Solfiyeni, S., Chairul, C., Marpaung, M. 2021. Analisis Vegetasi Tumbuhan Invasif di Kawasan Cagar Alam Lembah Anai, Sumatera Barat. In *Proceeding Biology Education Conference: Biology, Science, Environmental, and Learning*. 13(1): 743–747.

Solfiyeni, S., Syamsuardi, S., Chairul, C., Mukhtar, E. 2022. Impacts of Invasive Tree Species *Bellucia pentamera* on Plant Diversity, Microclimate and Soil of Secondary Tropical Forest in West Sumatra, Indonesia. *Biodiversitas Journal of Biological Diversity*. 23(6): 3335–3346.

Song, B., Niu, S., & Wan, S. 2016. Precipitation Regulates Plant Gas Exchange and Its Long-Term Response to Climate Change in A Temperate Grassland. *J Plant Ecol*. 9: 531–541.

Su, H., Bista, M., & Li, M. 2021. Mapping Habitat Suitability for Asiatic Black Bear And Red Panda in Makalu Barun National Park of Nepal from MaxEnt and GARP models. *Sci Rep*. 11: 14135. DOI: 10.1038/s41598-021-93540-x.

Suharta, N., Yatno, E. 2009. Karakteristik Spodosols, Kendala dan Potensi Penggunaannya. *Jurnal Sumberdaya Lahan*. 3(1): 1–14.

Suwardi, A.B., Syamsuardi, Mukhtar, E., & Nurainas. 2023a. Potential Geographic Distribution of *Durio oxleyanus* (Malvaceae): a Threatened Wild Fruit Plant Species in Sumatra, Indonesia. *Polish Journal of Environmental Studies*. 32(3): 1–10.

Suwardi, A.B., Syamsuardi, S., Mukhtar, E., Nurainas, N. 2023b. The diversity and regional conservation status of wild edible fruit species in Sumatra, Indonesia. *Biodiversitas Journal of Biological Diversity*. 24: 3245–3257.

Syofiani, R., Putri, S.D., Karjunita, N. 2020. Karakteristik Sifat Tanah sebagai Faktor Penentu Potensi Pertanian di Nagari Silokek Kawasan Geopark Nasional. *Jurnal Agrium*. 17(1).

Takahashi, A. 2023. Plant specimens in the Museum of Nature and Human Activities, Hyogo Prefecture, Japan. National Museum of Nature and Science, Japan. Occurrence dataset https://doi.org/10.15468/sqctqh. Diakses 13 April 2023.

Takhtajan, A. 1986. *Floristic Region of the World*. University of California Press.

Teapon, A. & Hadun, R. 2018. Evaluasi Status Kesuburan Kimia Tanah pada Beberapa Subgroup Tanah di Kecamatan Tidore Timur. *Jurnal Agriment*. 3(1): 7–15.

Utama, A.P., Syamsuardi, & Arbain, A. Studi Morfometrik Daun Macaranga Thou. Di Hutan Pendidikan dan Penelitian Biologi (HPPB). *Jurnal Biologi Universitas Andalas*. 1(1): 54–62.

Vicento-Serrano, S.M., Beguería, S., & López-Moreno, J.L. 2010. A Multiscalar Drought Index Sensitive to Global Warming: The Standardized Precipitation Evapotranspiration Index-SPEI. *J Clim*. 23: 1696–1718.

Wang, M., Hu, Z., Wang, Y. & Zhao, W. 2023. Spatial Distribution Characteristics of Suitable Planting Areas for *Pyrus* Species under Climate Change in China. *Plants*. 12(7): 1559.

WFO Plantlist. 2024. Zingiberaceae Martinov. Published on the Internet; http://www.worldfloraonline.org/taxon/wfo-7000000651. Diakses 26 Maret 2024

Wulansari, D., Qodrie, E.N.P., Dharma, B., Kamal, A.S., Hafid, L., Marlina, L. and Praptiwi, P., 2020. Aktivitas Antibakteri Ekstrak Kultur Jamur Endofit *Fusarium* sp. CSP-4 yang Diisolasi dari *Curcuma sumatrana* Miq. Berita Biologi. 19(1): 71–76.

Yang, X.Q., Kushwaha, S.P.S, Saran, S., Xu, J., & Roy, P.S. 2013. Maxent Modeling for Predicting the Potential Distribution of Medicinal Plant *Justicia adhatoda* L in Lesser Himalayan Foothills. *Ecological Engineering*. 51: 83–87.

Yi, Y.J., Cheng, X., Yang, Z.F., & Zhang, S.H. 2016. Maxent Modeling for Predicting the Potential Distribution of Endangered Medicinal Plant (*H. riparia* Lour) in Yunnan, China. *Ecological Engineering*. 92: 260–269.

Ye, P., Zhang G, Zhao X, Chen H, Si Q, & Wu J. 2021. Potential geographical distribution and environmental explanations of rare and endangered plant species through combined modeling: A case study of Northwest Yunnan, China. *Ecol Evol*. 11: 13052–13067. DOI: 10.1002/ece3.7999.

Zhang, X.N., Yang, X.D., Li, Y., He, X.M., Lv, G.H. & Yang, J.J. 2018. Influence of Edaphic Factors on Plant Distribution and Diversity in the Arid Area of Xinjiang, Northwest China. *Arid Land Research and Management*, 32(1): 38–56.