

DAFTAR PUSTAKA

- Aka, F. T., Buh, G. W., Tanyileke, G., & Metuk, J. (2017). Disaster prevention , disaster preparedness and local community resilience within the context of disaster risk management in Cameroon. *Natural Hazards*, 86(1), 57–88. <https://doi.org/10.1007/s11069-016-2674-5>
- Andreastuti, S., Paripurno, E. T., Gunawan, H., Budianto, A., Syahbana, D., & Pallister, J. (2016). Character of community response to volcanic crises at Sinabung and Kelud volcanoes. *Journal of Volcanology and Geothermal Research*. <https://doi.org/10.1016/j.jvolgeores.2017.01.022>
- Andriyan, M., Sartohadi, J., Ruslanjari, D., Bachri, S., Maulana, E., Lestari, E. D., & Wardhani, P. I. (2013). Households Economic Livelihoods Strategies in The Agricultural Sector in Post Eruption (Bromo Volcano Eruption 2010). In *Communicating Multi-Scientific Analyses on Disaster Risk Management* (pp. 210–219). Yogyakarta: Faculty of Geography UGM. <https://doi.org/10.13140/RG.2.2.29356.05763>
- Bachri, S., Stötter, J., Monreal, M., & Sartohadi, J. (2015). The calamity of eruptions , or an eruption of benefits ? Mt . Bromo human – volcano system a case study of an open-risk perception. *Natural Hazards and Earth System Sciences*, 277–290. <https://doi.org/10.5194/nhess-15-277-2015>
- Bachri, Syamsul. (2017). Hidup Selaras Bersama Gunung Api: Kajian Dampak Positif Dari Letusan Gunung Api Kelud Tahun 2014 Sebagai Modal Pembangunan Berkelanjutan. In *Seminar Nasional Geografi UMS* (pp. 147–158). Solo: Universitas Muhammadiyah Surakarta.
- Banowati, E., & Sriyanto. (2013). *Geografi Pertanian*. Yogyakarta: Ombak.
- Blake, D. M., Wilson, G., Stewart, C., Craig, H., Hayes, J., Jenkins, S. F., ... Cronin, S. (2015). *Impacts of the 2014 eruption of Kelud volcano, Indonesia, on infrastructure, utilities, agriculture and health. GNS Science Report 2015/15*.
- BNPB, & BAPPENAS. (2011). *Rencana Aksi Rehabilitasi Dan Rekonstruksi Pasca Bencana Gunung Merapi Provinsi D.I. Yogyakarta dan Provinsi Jawa Tengah Tahun 2011-2013*. Jakarta.

- BPPT. (2012). *Kajian Cepat Dampak Erupsi Gunung Merapi 2010 Terhadap Sumberdaya Lahan Pertanian dan Inovasi Rehabilitasinya*. (M. Noor & M. Sarwani, Eds.). Jakarta: IAARD Press.
- BPS. (2017). *Kecamatan Cangkringan Dalam Angka 2017*. Sleman: BPS.
- BPS. (2017). *Kecamatan Ngemplak Dalam Angka 2017*. Sleman: BPS.
- Bushman, N., & Rai, K. (2004). The Analytic Hierarchy Process. In *Strategic Decision Making* (pp. 11–21). London: Springer London. https://doi.org/10.1007/978-1-85233-864-0_2
- Charbonnier, S. J., Germa, A., Connor, C. B., Gertisser, R., Preece, K., Komorowski, J. C., ... Connor, L. (2013). Evaluation of the impact of the 2010 pyroclastic density currents at Merapi volcano from high-resolution satellite imagery, field investigations and numerical simulations. *Journal of Volcanology and Geothermal Research*, 261, 295–315. <https://doi.org/10.1016/j.jvolgeores.2012.12.021>
- Coyle, G. (2004). *The Analytical Hierarchy Process (AHP) Practical Strategy: Structured Tools and Technique*. Glasglow: Open Access Material-Person Education Ltd.
- Craig, H., Wilson, T., Stewart, C., Villarosa, G., Outes, V., Cronin, S., & Jenkins, S. (2016). *Agricultural impact assessment and management after three widespread tephra falls in Patagonia, South America*. *Natural Hazards* (Vol. 82). Springer Netherlands. <https://doi.org/10.1007/s11069-016-2240-1>
- Cutter, S. L., Ahearn, J. A., Amadei, B., Crawford, P., Eide, E. A., Galloway, G. E., ... Zoback, M. Lou. (2013). Disaster resilience: A national imperative. *Environment*, 55(2), 25–29. <https://doi.org/10.1080/00139157.2013.768076>
- Dalziell, E., & McManus, S. (2004). Resilience, Vulnerability and Adaptive Capacity: Implications for System Performance. In *The International Forum for Engineering Decision Making (IFED)* (pp. 1–17). Stoos, Switzerland. Retrieved from http://www.ifed.ethz.ch/events/forum04/erica_paper.pdf%5Cnpapers3://publication/uuid/0A98FD91-E050-48B3-A132-C72F857EC798
- Dalziell, E. P., & Mcmanus, S. T. (2004). Resilience , Vulnerability , and Adaptive

Capacity : Implications for System Performance.

- De Bélizal, E., Lavigne, F., Hadmoko, D. S., Degeai, J. P., Dipayana, G. A., Mutaqin, B. W., ... Aisyah, N. (2013). Rain-triggered lahars following the 2010 eruption of Merapi volcano, Indonesia: A major risk. *Journal of Volcanology and Geothermal Research*, 261, 330–347. <https://doi.org/10.1016/j.jvolgeores.2013.01.010>
- EPA. (2002). *Guidance on Choosing a Sampling Design for Environmental Data Collection*. Washington: EPA QA/G-5S.
- Fang, Y., Zhu, F., Yi, S., Qiu, X., & Ding, Y. (2019). Role of permafrost in resilience of social-ecological system and its spatio-temporal dynamics in the source regions of Yangtze and Yellow Rivers. *Journal of Mountain Science*, 16(1), 179–194. <https://doi.org/10.1007/s11629-018-5078-z>
- Few, R., Teresa, M., & Barclay, J. (2017). Living with Volcan Tungurahua : The dynamics of vulnerability during prolonged volcanic activity. *Geoforum*, 80, 72–81. <https://doi.org/10.1016/j.geoforum.2017.01.006>
- German Red Cross. (2017). *GRC - International Cooperation Disaster Risk Reduction and Climate Change Adaptation at the German Red Cross*. Berlin: Deutsches Rotes Kreuz e.V.
- Giyamsih, S. R., Listyaningsih, U., & Budiani, S. R. (2014). *Aspek Sosial Banjir Lahar*. Yogyakarta: Gadjah Mada University Press.
- Hadmoko, D. S., de Belizal, E., Mutaqin, B. W., Dipayana, G. A., Marfai, M. A., Lavigne, F., ... Gomez, C. (2018). Post-eruptive lahars at Kali Putih following the 2010 eruption of Merapi volcano, Indonesia: occurrences and impacts. *Natural Hazards*, 94(1), 419–444. <https://doi.org/10.1007/s11069-018-3396-7>
- Hadmoko, D. S., Dibyosaputro, S., & Widiyanto. (2014). *Banjir Lahar: Pembentukan, Proses, Dampak, dan Mitigasinya*. Yogyakarta: Gadjah Mada University Press.
- Harsiwi, R. S., & Setyono, J. S. (2015). Tingkat Kerentanan Ekonomi Wilayah Kabupaten Wonigiri. *Jurnal Teknik PWK*, 4(4), 578–592.
- Hidayati, I. Y., & Setyono, J. S. (2016). Tingkat Kerentanan Lingkungan

- Kabupaten Wonogiri. *Jurnal Teknik PWK*, 4(4), 592–604.
- Hizbaron, D. R., Hadmoko, D. S., Mei, E. T. W., Murti, S. H., Laksani, M. R. T., Tiyanasyah, A. F., ... Tampubolon, I. E. (2018). Towards measurable resilience: Mapping the vulnerability of at-risk community at Kelud Volcano, Indonesia. *Applied Geography*, 97(June), 212–227. <https://doi.org/10.1016/j.apgeog.2018.06.012>
- Hizbaron, D. R., Rahmat, P. N., Setyaningrum, A., & Malawani, M. N. (2015). Kajian Pola Spasial Kerentanan Sosial, Ekonomi, dan Fisik di Wilayah Rawan Erupsi Gunungapi Merapi, Yogyakarta. *Jurnal Riset Kebencanaan*, 1, 17–24.
- Jenkins, S., Komorowski, J. C., Baxter, P. J., Spence, R., Picquout, A., Lavigne, F., & Surono. (2013). The Merapi 2010 eruption: An interdisciplinary impact assessment methodology for studying pyroclastic density current dynamics. *Journal of Volcanology and Geothermal Research*, 261, 316–329. <https://doi.org/10.1016/j.jvolgeores.2013.02.012>
- Klein, R. J. T., Nicholls, R. J., & Thomalla, F. (2003). Resilience to natural hazards: How useful is this concept? *Enviromental Hazards*, 5, 35–45. <https://doi.org/10.1016/j.hazards.2004.02.001>
- Komorowski, J.-C., Jenkins, S., Baxter, P. J., Picquout, A., Lavigne, F., Charbonnier, S., ... Budi-Santoso, A. (2013). Paroxysmal dome explosion during the Merapi 2010 eruption: Processes and facies relationships of associated high-energy pyroclastic density currents. *Journal of Volcanology and Geothermal Research*, 261, 260–294. <https://doi.org/10.1016/J.JVOLGEORES.2013.01.007>
- Kusumastuti, R. D., Viverita, Husodo, Z. A., Suardi, L., & Danarsari, D. N. (2014). Developing a resilience index towards natural disasters in Indonesia. *International Journal of Disaster Risk Reduction*, 10, 327–340. <https://doi.org/10.1016/j.ijdr.2014.10.007>
- Lavigne, F. (1999). Lahar hazard micro-zonation and risk assessment in Yogyakarta city, Indonesia. *GeoJournal*, 49(2), 173–183. <https://doi.org/10.1023/A:1007035612681>
- Lavigne, F. (2004). Rate of sediment yield following small-scale volcanic

- eruptions: a quantitative assessment at the Merapi and Semeru stratovolcanoes, Java, Indonesia. *Earth Surface Processes and Landforms*, 29(8), 1045–1058. <https://doi.org/10.1002/esp.1092>
- Lavigne, F., Thouret, J., Hadmoko, D. S., & Sukatja, C. B. (2007). Lahars in Java: Initiations, dynamics, hazard assessment and deposition processes. *Forum Geografi*, 21(1), 17–32.
- Li, Z., Zhang, X., Ma, Y., Feng, C., & Hajiyevev, A. (2019). A multi-criteria decision making method for urban flood resilience evaluation with hybrid uncertainties. *International Journal of Disaster Risk Reduction*, 36(April). <https://doi.org/10.1016/j.ijdr.2019.101140>
- Ma'arif, S., & Hizbaron, D. R. (2015). *Strategi Menuju Masyarakat Tangguh Bencana Dalam Perspektif Sosial*. Yogyakarta: Gadjah Mada University Press.
- Marbruno, H., & Buchori, I. (2013). Model Spasial Kerentanan Sosial Ekonomi dan Kelembagaan terhadap Bencana Gunung Merapi. *Jurnal Teknik PWK*, 2(1), 1–10.
- Marti, J., & Ernst, G. G. . (2005). *Volcanoes and the Environment*. Cambridge: Cambridge University Press.
- Maulana, E. (2013). *Strategi Pengelolaan Lahan Pertanian Untuk Mengurangi Dampak Abu Vulkanik Gunungapi Bromo, Jawa Timur*. Universitas Gadjah Mada.
- Mayunga, J. S. (2007). Understanding and Applying the Concept of Community Disaster Resilience: A capital-based approach. *Lands Archit*, 7(July), 22–28. <https://doi.org/10.1146/annurev.energy.32.051807.090348>
- Mei, E. T. W., Lavigne, F., Picquout, A., de Bélizal, E., Brunstein, D., Grancher, D., ... Vidal, C. (2013). Lessons learned from the 2010 evacuations at Merapi volcano. *Journal of Volcanology and Geothermal Research*, 261(16), 348–365. <https://doi.org/10.1016/j.jvolgeores.2013.03.010>
- Mulyaningsih, S. (2013). *Vulkanologi*. Yogyakarta: Akprind Press.
- Neild, J., Flaherty, P. O., Hedley, P., Underwood, R., Johnston, D., & Christenson, B. (1998). *Impact of a Volcanic Eruption on Agriculture and Forestry in New*

- Zealand*. Ministry of Agriculture and Forestry.
- Pamungkas, B. (2012). *Economic Resilience of Agribusiness Households In Putih River Region Following The 2010 Merapi Volcanism Events*. Universitas Gadjah Mada.
- Panpakdee, C., & Limnirankul, B. (2018). Indicators for assessing social-ecological resilience: A case study of organic rice production in northern Thailand. *Kasetsart Journal of Social Sciences*, 39(3), 414–421. <https://doi.org/10.1016/j.kjss.2017.07.003>
- Paton, D., & Johnston, D. (2001). Disasters and communities: vulnerability, resilience, and preparedness. *Disaster Prevention and Management*, 10, 270–277.
- Paton, D., Millar, M., & Johnston, D. (2001). Community resilience to volcanic hazard consequences. *Natural Hazards*, 24(2), 157–169. <https://doi.org/10.1023/A:1011882106373>
- Pradana, A., Rahmanu, Y. A., Prabaningrum, I., Nurafifa, I., & Hizbaron, D. R. (2018). Vulnerability assessment to frost disaster in dieng volcanic highland using spatial multi-criteria evaluation. *IOP Conference Series: Earth and Environmental Science*, 148(1). <https://doi.org/10.1088/1755-1315/148/1/012002>
- Pradana, A., Mardiana, A., Lestari, F. N., Sara, F. H., Afifah, S., & Nurjani, E. (2019). Frost Hazard Assessment on Agricultural Land to Achieve Resilient Agriculture in Dieng Volcanic Highland, Central Java. *Ilmu Pertanian (Agricultural Science)*, 3(1), 46. <https://doi.org/10.22146/ipas.39620>
- Purnomo, H., & Sugiantoro, R. (2010). *Manajemen Bencana: Respon dan Tindakan terhadap Bencana*. Yogyakarta: Media Pressindo.
- PVMBG. (2010). *Laporan Penyelidikan Pasca Bencana Letusan Gunungapi Bromo, Indonesia*.
- Rachman, F., Satriagasa, M. C., & Riasasi, W. (2014). Fishery As Short-Term Livelihood Strategy Post Merapi Volcano's Eruption. In *Strengthening Community Resiliency to Disaster Through Disaster Education Development*. Yogyakarta: Yogyakarta State University.

- Sarrazin, C., Gautier, E., Hollé, A., Grancher, D., de Bélizal, E., & Hadmoko, D. S. (2018). Resilience of socio-ecological systems in volcano risk-prone areas, but how much longer? Assessment of adaptive water governance in Merapi volcano, Central Java, Indonesia. *GeoJournal*, 1–31. <https://doi.org/10.1007/s10708-018-9856-5>
- Schneiderbauer, S., & Ehrlich, D. (2004). Risk, hazard and people's vulnerability to natural hazards: A review of definitions, concepts and data. *European Commission Joint Research Centre. EUR*, 21410, 40(January). https://doi.org/10.1007/978-3-540-75162-5_7
- Sikoki, B., Nugroho, J. E., Widanto, F. A. S., Sakti, N. U. E., Kawuryan, I. S. S., Purwanto, E., ... Sustiyono, A. (2013). *MERAPI: Pemulihan Warga Pasca Letusan 2010, Laporan Studi Longitudinal*.
- Simpson, D. M. (2006). *Indicator Issues and Proposed Framework for a Disaster Preparedness Index (DPI)*.
- Solikhin, A., Thouret, J. C., Liew, S. C., Gupta, A., Sayudi, D. S., Oehler, J. F., & Kassouk, Z. (2015). High-spatial-resolution imagery helps map deposits of the large (VEI 4) 2010 Merapi Volcano eruption and their impact. *Bulletin of Volcanology*, 77(3), 1–23. <https://doi.org/10.1007/s00445-015-0908-0>
- Soraya, E., Wardhana, W., & Sadono, R. (2016). Pemodelan Spasial Resiliensi Ekosistem Gunungapi Merapi Pasca Erupsi. *Jurnal Ilmu Kehutanan*, 10(1), 86–97.
- Strahler, A. (2011). *Introducing Physical Geography* (Fifth). USA: John Wiley & Sons, Inc.
- Sudibyakto. (2011). *Manajemen Bencana di Indonesia ke mana?* Yogyakarta: Gadjah Mada University Press.
- Surono, Jousset, P., Pallister, J., Boichu, M., Buongiorno, M. F., Budisantoso, A., ... Lavigne, F. (2012). The 2010 explosive eruption of Java's Merapi volcano—A “100-year” event. *Journal of Volcanology and Geothermal Research*, 241–242, 121–135. <https://doi.org/10.1016/j.jvolgeores.2012.06.018>
- Sutikno. (2007). *Kerajaan Merapi: Sumberdaya Alam & Daya Dukungnya*. Yogyakarta: Badan Penerbit Fakultas Geografi UGM (BPFGE).

- Tanaka, S. (2012). Chapter 1: Community Approach and Community Preparedness to Disaster. In D. Mardiatno & M. Takahashi (Eds.), *Community Approach to Disaster* (p. 25). Yogyakarta: Gadjah Mada University Press.
- Thouret, J.-C. (2004). Geomorphic Processes and Hazards on Volcanic Mountains. In P. . Owens & O. Slaymaker (Eds.), *Mountain Geomorphology* (p. 313). Hodder & Stoughton Educational.
- Thywissen, K. (2006). *Components of Risk. A Comparative Glossary*. Paffenholz: UNU-EHS.
- Tilling, R. I. (1989). Volcanic hazards and their mitigation: Progress and problems. *Reviews of Geophysics*, 27(2), 237–269. <https://doi.org/10.1029/RG027i002p00237>
- Tilling, R. I. (2005). Volcano Hazards. In J. Marti & Gerald G. J. Ernst (Eds.), *Volcanoes and the Environment* (pp. 55–89). Cambridge: Cambridge University Press. <https://doi.org/10.1017/CBO9780511614767.003>
- UNESCAPE, & UNISDR. (2012). *Reducing Vulnerability and Exposure to Disasters*. Retrieved from <http://www.unescap.org/publications/detail.asp?id=1512>
- UNISDR. (2010). *Terminologi Pengurangan Risiko Bencana*. <https://doi.org/10.1080/15475440701360168>
- Utami, S. N. H., Purwanto, B. H., & Marwasta, D. (2018). Land Management for Agriculture After The 2010 Merapi Eruption. *Planta Tropika: Jurnal Agrosains*, 6(1), 32–38. <https://doi.org/10.18196/pt.2018.078.32-38>
- Voight, B., Constantine, E. K., Siswowidjoyo, S., & Torley, R. (2000). Historical eruptions of Merapi Volcano, Central Java, Indonesia, 1768–1998. *Journal of Volcanology and Geothermal Research*, 100(1–4), 69–138. [https://doi.org/10.1016/S0377-0273\(00\)00134-7](https://doi.org/10.1016/S0377-0273(00)00134-7)
- Wacano, D. (2010). *Kajian Kerawanan Longsor Lahan Menggunakan Analytical Hierarchy Process di DAS Tinalah Kulon Progo*.
- Wacano, D. (2014). *Studi Kelayakan Potensi Mineral Tambang Pasir-Batu Menggunakan Pendekatan Litofasies dan Proses Geomorfik Pada Alur Sungai Gendol Pasca Erupsi Gunungapi Merapi 2010*. Universitas Gadjah Mada.

- Wacano, D., Nucifera, F., & Cahyadi, A. (2012). A Study of Socio-Economic Vulnerability of Salacca Farmer in Girikerto, Sleman, Yogyakarta (A Lesson Learned from the Merapi Volcano Eruption 2010). In *The 4th International Graduate Student Conference on Indonesia*. Yogyakarta: The Graduate School, Universitas Gadjah Mada.
- Wardhani, P. I., Sartohadi, J., & Sunarto, S. (2017). Dynamic Land Resources Management at the Mount Kelud, Indonesia. *Forum Geografi*, 31(1), 56–68. <https://doi.org/10.23917/forgeo.v31i1.3612>
- Wilson, T. M., Kaye, G., Stewart, C., & Cole, J. W. (2007). *Impacts of the 2006 Eruption of Merapi Volcano, Indonesia, on Agriculture and Infrastructure*. Retrieved from https://www.mdanderson.org/transcripts/ICARE_BasicPrinciples_SPIKES_Overview_MDAnderson.htm
- Winderhl, T. (2014). *Disaster Resilience Measurements*. UNDP.
- Zayinul, F., Sudibyakto, & Hadmoko, D. S. (2012). Tingkat Kerentanan dan Indeks Kesiapsiagaan Masyarakat terhadap Bencana Tanah Longsor di Kecamatan Bantarkawung Kabupaten Brebes. *Majalah Geografi Indonesia*, 26(1), 80–97.
- Peraturan Menteri, Peraturan Presiden, dan Undang-undang**
- Undang-Undang Republik Indonesia Nomor 24 Tahun 2007 Tentang Penanggulangan Bencana.