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DAFTAR PUSTAKA

Abidin, H. Z., Andreas, H., Meilano, I., Gamal, M., Gumilar, I., & Abdullah, C. I. (2009). Deformasi Koseismik dan Pascaseismik Gempa Yogyakarta 2006 dari Hasil Survei GPS. *Indonesian Journal on Geoscience*, *4*(4), 275–284. https://doi.org/10.17014/ijog.4.4.275-284

Arsyad. (1989). *Konservasi Tanah dan Air*. Bogor: IPB Press.

Badan Pusat Statistik. (2007). *Kecamatan Piyungan dalam Angka 2006/2007*. Badan Pusat Statistik Daerah Istimewa Yogyakarta.

Badan Pusat Statistik. (2024). *Kecamatan Piyungan dalam Angka 2024*. Badan Pusat Statistik Daerah Istimewa Yogyakarta.

Badan Standarisasi Nasional. (1999). *Penyusunan Peta Geomorfologi Nomor SNI 13-6185-1999*. Badan Standarisasi Nasional.

Bappeda. (2008). *Profil Kebencanaan Daerah Istimewa Yogyakarta 2008*. Badan Perencanaan Pembangunan Daerah.

Bemmelen, V. (1949). *The Geology of Indonesia. Vol. IA: General Geology of Indonesia and Adjacent Archipelagoes*. U.S. Government Printing Office.

BMKG. (2024). *Katalog Gempabumi Merusak 1821–2023*. Badan Meteorologi Klimatologi dan Geofisika.

BNPB. (2012). *Peraturan Kepala BNPB Nomor 2 Tahun 2012 tentang Pedoman Umum Pengkajian Risiko Bencana*. Badan Nasional Penanggulangan Bencana.

Braunmiller, J. (2014). Earthquake Mechanisms and Tectonics. In *Encyclopedia of Earthquake Engineering* (pp. 1–12). South Florida: School of Geosciences Faculty and Staff Publications. https://doi.org/10.1007/978-3-642-36197-5_297-1

Bronto, S., Mulyaningsih, S., Hartono, G., & Astuti, B. (2008). Gunung Api Purba Watuadeg: Sumber Erupsi dan Posisi Stratigrafi. *Jurnal Geologi Indonesia*, *3*(3), 117–128.

Daryono, S., Sartohadi, J., & Dulbahri, K. S. B. (2009). Pengkajian Local Site Effect di Graben Bantul Menggunakan Indeks Kerentanan Seismik Berdasarkan Pengukuran Mikrotremor [Disertasi Unpublished]. In *Jurnal Kebencanan Indonesia* (Vol. 2). Universitas Gadjah Mada.

Direktorat Pekerjaan Umum. (2007). *Pedoman Penataan Ruang Kawasan Rawan Letusan Gunung Berapi dan Kawasan Rawan Gempa Bumi*. Direktorat Jenderal Pekerjaan Umum.

UNIVERSITAS GADJAH MADA
Zonasi Kerawanan Gempabumi Menggunakan Pendekatan Geomorfologi di Kapanewon Piyungan, Kabupaten Bantul
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Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Dramis, F., Guida, D., & Cestari, A. (2011). Nature and Aims of Geomorphological Mapping. In *Developments in Earth Surface Processes* (Vol. 15, pp. 39–73). Elsevier.

Ekarsti, A. K., Pramumijoyo, S., Marliyani, G. I., Setianto, A., & Karnawati, D. (2023). Analyzing Recent Seismic Activity of the Opak Fault System in Central Java, Indonesia, From 2009 To 2021. *Geomate Journal*, *25*(110), 87–97.

Heddy, S., & Kurniati, M. (1994). *Prinsip-Prinsip Dasar Ekologi: Suatu Bahasan tentang Kaidah Ekologi dan Penerapannya*. RajaGrafindo Persada. https://books.google.co.id/books?id=HNWiAQAACAAJ

Kamal, A. S., & Midorikawai, S. (2006). Geomorphological Approach for Seismic Microzoning Within Dhaka City Area, Bangladesh. *International Association for Engineering Geology and the Environment*, *457*, 1–2.

Karnawati, D., Pranumijoyo, S., van Vleck Anderson, R., & Husein, S. H. S. (2008). *The Yogyakarta Earthquake of May 27, 2006*. https://api.semanticscholar.org/CorpusID:126965781

Kartasapoetra, A. G. (1990). *Klimatologi: Pengaruh Iklim terhadap Tanah dan Tanaman* (Cet. 3). Bumi Aksara. https://cir.nii.ac.jp/crid/1970304959896958739

Kraak, M.-J., & Ormeling, F. (2020). *Cartography: Visualization of Geospatial Data*. CRC Press.

Lobeck, A. K. (1939). *Geomorphology: An Introduction to the Study of Landscapes*. McGraw-Hill. https://books.google.co.id/books?id=dgYLAQAAIAAJ

Marsell, R. (2012). *Zonasi Daerah Rawan Gempabumi di Kecamatan Pundong Kabupaten Bantul Yogyakarta Berdasarkan Pendekatan Geomorfologi* [Skripsi Unpublished]. Universitas Gadjah Mada.

Marsell, R. (2013). Zonasi Daerah Rawan Gempa Bumi di Kecamatan Pundong, Bantul Berdasarkan Pendekatan Geomorfologi. *Majalah Geografi Indonesia*, *27*(1), 11–25.

Matsuoka, M., & Wakamatsu, K. (2004). Nationwide Site Amplification Zonation Study Using Japan Engineering Geomorphologic Classification Map. *Proceedings of 13th World Conference on Earthquake Engineering, Vancouver, Canada, August*.

McDonald, & Partners. (1984). *Greather Yogyakarta Groundwater Resources Study* (Government of the Republic of Indonesia. Ministry of Public Works, Ed.). Overseas Development Administration.

UNIVERSITAS
GADJAH MADA
Zonasi Kerawanan Gempabumi Menggunakan Pendekatan Geomorfologi di Kapanewon Piyungan, Kabupaten Bantul
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Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Mulyaningsih, S. (2012). Perkembangan Geologi pada Kuarter Awal sampai Masa Sejarah di Dataran Yogyakarta. *Indonesian Journal on Geoscience*. https://doi.org/10.17014/ijog.vol1no2.20065

Nath, S., Thingbaijam, K. K., & Raj, A. (2008). Earthquake Hazard in Northeast India — A Seismic Microzonation Approach With Typical Case Studies From Sikkim Himalaya and Guwahati City. *Journal of Earth System Science*, *117*, 809–831. https://doi.org/10.1007/s12040-008-0070-6

Nurwidyanto, M. I., Dwi Indriana, R., & Thaha Darwis, Z. (2007). Pemodelan Zona Sesar Opak di Daerah Pleret Bantul Yogyakarta dengan Metode Gravitasi. *Berkala Fisika*, *10*(1), 65–70.

Nurwihastuti, D., Sartohadi, J., Mardiatno, D., Nehren, U., & Restu, R. (2014). Understanding of Earthquake Damage Pattern through Geomorphological Approach: A Case Study of 2006 Earthquake in Bantul, Yogyakarta, Indonesia. *World Journal of Engineering and Technology*, *2*, 61–70. https://doi.org/10.4236/wjet.2014.23B010

Panizza, M. (1991). Geomorphology and Seismic Risk. *Earth-Science Reviews*, *31*(1), 11–20. https://doi.org/https://doi.org/10.1016/0012-8252(91)90040-M

Parvez, I. A., & Rosset, P. (2014). Chapter 11 - The Role of Microzonation in Estimating Earthquake Risk. In J. F. Shroder & M. Wyss (Eds.), *Earthquake Hazard, Risk and Disasters* (pp. 273–308). Academic Press. https://doi.org/https://doi.org/10.1016/B978-0-12-394848-9.00011-0

Patria, A., & Aulia, A. (2020). Structural and Earthquake Evaluations Along Java Subduction Zone, Indonesia. *RISET Geologi Dan Pertambangan*, *30*, 65. https://doi.org/10.14203/risetgeotam2020.v30.1072

Pena-Castellnou, S., Steinritz, V., Marliyani, G. I., & Reicherter, K. (2021). Active Tectonics of the Yogyakarta Area (Central Java, Indonesia): Preliminary Findings Obtained From a Tectonic-Geomorphic Evaluation. *IOP Conference Series: Earth and Environmental Science*, *851*(1). https://doi.org/10.1088/1755-1315/851/1/012005

Prasetyadi, C., Rachman, M., Hapsoro, S., shirly, agung, Gunawan, A., & Purwaman, I. (2016). Seismic-Based Structural Mapping of RMKS Fault Zone: Its Implication to Hydrocarbon Accumulation in East Java Basin. *In Prosiding Geosea XIV Congress and 45th IAGI Annual Convention*, 1–4. https://doi.org/10.6084/m9.figshare.16442034

Ramadhani, F. D. (2018). *Pemetaan Tingkat Kerentanan Gerakan Massa Menggunakan Metode Analytical Hierarchy Process (AHP) di Kecamatan Piyungan, Kabupaten Bantul, D.I. Yogyakarta*. Universitas Gadjah Mada.

UNIVERSITAS
GADJAH MADA
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Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Santana, J., Bollo-Manent, M., Linares, A., & Eng, J. (2009). The Formation and Morphogenesis of the Landform in the Northwest Corner of the State of Chiapas, Mexico. *Investigaciones Geográficas*, *68*, 25–40. https://doi.org/https://doi.org/10.14350/rig.17996

Saputra, R. (2018). *Indeks Kerentanan Seismik pada Satuan Bentuklahan Multi-skala di Kecamatan Sewon, Kabupaten Bantul* [Thesis Unpublished]. Universitas Gadjah Mada.

Sartohadi, O. :], Widyastuti, M., Sri, I., Jurusan, L., Fisik, G., & Geografi, F. (2005). Spreading of Groundwater Contamined by Leached in The Surrounding Area of Piyungan Landfill Bantu! District, Yogyakarta Province. *Forum Geografi*, *19*(1), 16.

Sato, T., Nakamura, Y., & Saita, J. (2004, January 1). Evaluation of the Amplification Characteristics of Subsurface Using Microtremor and Strong Motion-the Studies at Mexico City. *13th World Conference on Earthquake Engineering*.

Sepriyanto, B. P., Hizbaron, D. R., & Setiawan, M. A. (2022). Mikrozonasi Rawan Gempabumi Sebagai Bahan Evaluasi RDTR Kecamatan Kasihan Tahun 2018 – 2038. *Majalah Geografi Indonesia*, *36*(2), 135. https://doi.org/10.22146/mgi.54440

Setyowati, P. (2021). Evaluasi Pemanfaatan Peta Geomorfologi untuk Mikrozonasi Wilayah Rawan Gempabumi di Kapanewon Pleret, Bantul [Skripsi Unpublished]. In *Journal of Physics: Theories and Applications* (Vol. 65, Number 2). Universitas Gadjah Mada.

Srijono, S. H. E. H. S. E. Y. (2008). *Penerapan Pemetaan Geomorfologi Metode ITC dalam Menganalisis Geomorfologi Pegunungan Selatan Jawa Timur*. https://api.semanticscholar.org/CorpusID:131496036

Sunaryo, S., Mala, H., & Prasetio, A. (2018). Earthquake Microzonation Study on Batubesi Dam of Nuha, East Luwu, South Sulawesi, Indonesia. *International Journal of GEOMATE*, *15*, 148–154. https://doi.org/10.21660/2018.48.40882

Surono. (2009). Litostratigrafi Pegunungan Selatan Bagian Timur Daerah Istimewa Yogyakarta dan Jawa Tengah. *Jurnal Geologi Dan Sumberdaya Mineral*, *19*(3), 209–221. https://doi.org/https://doi.org/10.33332/jgsm.geologi.v19i3.206

Tarolli, P. (2014). High-resolution topography for understanding Earth surface processes: Opportunities and challenges. *Geomorphology*, *216*, 295–312. https://doi.org/https://doi.org/10.1016/j.geomorph.2014.03.008

UNIVERSITAS
GADJAH MADA
Zonasi Kerawanan Gempabumi Menggunakan Pendekatan Geomorfologi di Kapanewon Piyungan, Kabupaten Bantul
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Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Thamarux, P., Matsuoka, M., Poovarodom, N., & Iwahashi, J. (2019). VS30 Seismic Microzoning Based on a Geomorphology Map: Experimental Case Study of Chiang Mai, Chiang Rai, and Lamphun, Thailand. *ISPRS International Journal of Geo-Information*, *8*(7). https://doi.org/10.3390/ijgi8070309

Thornbury, W. D. (1954). *Principles of Geomorphology*. Wiley. https://books.google.co.id/books?id=_ywtAAAAIAAJ

Tjasyono, B. (2004). *Klimatologi* (Cet. 2). Bandung: ITB.

Tsuji, T., Yamamoto, K., Matsuoka, T., Yamada, Y., Onishi, K., Bahar, A., Meilano, I., & Abidin, H. Z. (2009). Earthquake Fault of the 26 May 2006 Yogyakarta Earthquake Observed by SAR Interferometry. *Earth, Planets and Space*, *61*(7), e29–e32. https://doi.org/10.1186/BF03353189

UNOSAT. (2006). *Preliminary Damage Assessment: Java Earthquake*. United Nations Satellite Centre. https://unosat.org/products/155

USDA. (2017). *Soil Survey Manual Soil Science Division Staff Agriculture Handbook No. 18*. United States Department of Agriculture.

USGS. (2020). *Which Country Has the Most Earthquakes?* https://www.usgs.gov/faqs/which-country-has-most-earthquakes#publications

USGS. (2024). *What is an Earthquake and What Causes Them to Happen?* https://www.usgs.gov/faqs/what-earthquake-and-what-causes-them-happen

Van Zuidam, R. A. (1973). *Guide To Geomorphological Photo-Interpretation*. ITC, Enschede.

Van Zuidam, R. A. (1983). Guide to Geomorphologic Aerial Photographic Interpretation and Mapping. *International Institute for Geo-Information Science and Earth Observation, Enschede, The Netherlands*, *325*.

Vanik, N., Maurya, D. M., Shaikh, M., Padmalal, A., Tiwari, P., & Chamyal, L. S. (2021). A tectono-geomorphological perspective of micro-earthquake swarm activity prone areas around Bhavnagar and Jamnagar in Saurashtra, western India. *Quaternary International*, *585*, 111–133. https://doi.org/https://doi.org/10.1016/j.quaint.2020.12.041

Varnes, D. J. (1978). Slope Movement Types and Processes. In R. L. Schuster & R. J. Krizek (Eds.), *Landslides: Analysis and Control (Transportation Research Board Special Report 176* (pp. 11–33). National Academy of Sciences.

UNIVERSITAS
GADJAH MADA
Zonasi Kerawanan Gempabumi Menggunakan Pendekatan Geomorfologi di Kapanewon Piyungan, Kabupaten Bantul
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Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Verstappen, H. T. (1983). *Applied Geomorphology: Geomorphological Surveys for Environmental Development*. Elsevier.

Verstappen, H. T., van Zuidam, R. A., & Van de Weg, R. F. (1975). *ITC System of Geomorphological Survey* (Number v. 2). International Institute for Aerial Survey and Earth Sciences. https://books.google.co.id/books?id=GPpOxgEACAAJ

Wagner, D., Koulakov, I., Rabbel, W., Luehr, B.-G., Wittwer, A., Kopp, H., Bohm, M., Asch, G., & Scientists, M. (2007). Joint inversion of active and passive seismic data in Central Java. *Geophysical Journal International*, *170*(2), 923–932. https://doi.org/10.1111/j.1365-246X.2007.03435.x

Wakamatsu, K., & Yamamoto, A. (2001). *Geomorphological Criteria for Evaluating Liquefaction Potential Considering the Level-2 Ground Motion in Japan*. https://scholarsmine.mst.edu/icrageesd/04icrageesd/session04/37

Walstra, J. (2006). *Historical Aerial Photographs and Digital Photogrammetry for Landslide Assessment*. Institute of Natural Sciences.

Yoshimi, M., Komatsubara, T., Miyachi, Y., Kimura, K., Sekiguchi, H., Saeki, M., Kunimatsu, S., Yoshida, K., Ozaki, M., Nakazawa, T., Nakashima, R., & Saomoto, H. (2005). Landform and Local Site Effects on the Colonies Worst-hit by the 2004 mid-Niigata Prefecture, Japan, Earthquake. *Earth and Planetary Science Letters*, *57*. https://doi.org/10.1186/BF03351845

Yuditama, R., Harisulistyo, M. I., & Pramaditya, M. (2022). Arsitektur Endapan Vulkaniklastik Berdasarkan Studi Singkapan Formasi Semilir di Daerah Ngoro-Oro, D. I. Yogyakarta. *Dinamika Rekayasa*, *18*(1), 49–61.