

DAFTAR PUSTAKA

- Abuzied, S., Yuan, M., Ibrahim, S., Kaiser, M. & Saleem, T., 2016, Geospatial Risk Assessment of Flash Floods in Nuweiba Area, Egypt, *J. Arid Environ.* 133, 54–72.
- Afrianto, Y., 2015, Pemodelan Bahaya Banjir dan Analisis Risiko Banjir, *Tesis*. UGM: Yogyakarta.
- Albano, R., Mancusi, L., Sole, A., & Adamowski, J., 2015, Collaborative Strategies for Sustainable EU Flood Risk Management: FOSS and Geospatial Tools—Challenges and Opportunities for Operative Risk Analysis. *ISPRS International Journal of Geo-Information*, 4(4), 2704–2727.
- Alkema, D., 2003, Flood risk assessment for EIA; an example of a motorway near Trento, Italy, *Studi Trentini Di Scienze Naturali - Acta Geologica*, 78(October 2000), 147–153.
- Anderson, J.R., Hardy, E.E., Roach, J.T., & Witmer, R.E., 1976, “*A Land Use and Land Cover Classification System for Use with Remote Sensor Data*,” Geological Survey, Washington, USA: Land Cover Institute.
- Asdack, C., 1995, “*Hidrologi dan Pengelolaan Daerah Aliran Sungai*,” Yogyakarta: Gadjah Mada University Press.
- Atviana. F., Nurritasari, & Jetten, V.G., 2015, OpenLISEM Flash Flood Modelling Application in Logung Sub-Catchment, Central Java. *Indonesian Journal of Geography*, 47(2), 132–141.
- Azmeri, H. & Vadiya, R., 2016, Identification of flash flood hazard zones in mountainous small watershed of Aceh Besar Regency, Aceh Province, Indonesia. *The Egyptian Journal of Remote Sensing and Space Sciences*, 19(1), pp.143–160.
- Bedient, P.B., Holder, A., Benavides, J.A., Vieux, B.E., 2003, Radar-based flood warning system applied to tropical storm Allison. *Journal of Hydrologic Engineering*, (Nov/Dec), 308– 318.
- Benandito, D., 2017, Prediksi Debit Progo dengan Model HEC-HMS, *Tesis*. UGM: Yogyakarta.
- Bhuyan, M.K., 2015, Flood Hydrograph with Synthetic Unit Hydrograph Routing. *Journal of Water Res. Management*, -.5765–5782.
- Birkman, J., 2006, “*Measuring Vulnerability To Natural Hazards: Towards Disaster Resilient Societies*,” New York:United Nations University Press.
- Bloschl, G., Reszler, C., & Komma, J., 2008, A Spatially Distributed Flash Flood Forecasting Model. *Journal Environmental Modelling and Software*, (23), 464–478.

- BNPB [Badan Nasional Penanggulangan Bencana], 2012, Peraturan Kepala BNPB No 2 Tahun 2012 tentang Pedoman Umum Pengkajian Risiko Bencana.
- BNPB [Badan Nasional Penanggulangan Bencana], 2016. *Bencana Di Indonesia Sampai Mei 2017*. (www.dibi.bnpb.go.id). Diakses 22 Mei 2017.
- Boardman, J., Evans, R., & Ford, J., 2003, Muddy floods on the South Downs, southern England: Problem and responses. *Journal of Environ. Sci. Policy*, (6), 69–83.
- Borga, M., Anagnostou, E. N., Blöschl, G., & Creutin, J. D., 2011, Flash flood forecasting, warning and risk management: The HYDRATE project. *Environmental Science and Policy*, 14(7), 834–844.
- Brunner, G.W., 2008, “*HEC-RAS River Analysis System v.05.*” Hydrologic Engineering Center, Institute of Water Resources. US Army Corps of Engineers, Davis. CA-USA.
- Brunner, G.W., 2016, “*HEC-RAS Applications Guide v.05.*” Hydrologic Engineering Center, Institute of Water Resources. US Army Corps of Engineers, Davis. CA-USA.
- Chingombe, W., Pedzisai, E., Manatsa, D., Mukwada, G., & Taru, P., 2014, A Participatory Approach in GIS Data Collection for Flood Risk Management, Muzarabani District, Zimbabwe. *Arabian Journal of Geosciences*, 8(2), 1029–1040.
- Chow V.T., 1959, Open-Channel Hydraulics. McGraw-HILL Book Co., USA.
- Chow, V.T., Maidment, D.R., Mays, L.W., 1988, A general theory of the unit hydrograph theory, *J. Geophys Res*, 64 (2), 241–256.
- Creutin, J.D., Borga, M., 2003. Radar hydrology modifies the monitoring of flash flood hazard. *Hydrological Processes* 17 (7), 1453–1456
- Dawod, G. M., Koshak, N. A., & Al, E. T., 2011, Developing GIS-Based Unit Hydrographs for Flood Management in Makkah Metropolitan Area , Saudi Arabia, 2011(April), 153–159.
- Dawod, G.M., 2011. GIS-based Spatial Mapping of Flash Flood Hazard in Makkah City, Saudi Arabia. *Journal of Geographic Information System*, (3), 225-231.
- Dawod, G.M., Koshak, N.A., & Al, E.T., 2011, Developing GIS-Based Unit Hydrographs for Flood Management in Makkah Metropolitan Area, Saudi Arabia. *Journal of Geographic Information System*, (3), 153-159.
- Devi, D. & Das, T., 2009, Derivation of Synthetic Unit Hydrograph for Ranganadi Basin and Dikrong River Basin in Assam-Arunachal. *International Journal of innovative Research in Science and Engineering*, 2(4), 145–153.

- Dip, M., parikesit, N.A., & Utomo, H., 2012. "Buku Petunjuk Tindakan dan Sistem Mitigasi Banjir Bandang. Dirjen SDA," Kementrian Pekerjaan Umum, (www.pu.go.id), Diakses Oktober 2016.
- El Osta, M M, El Sabri, M.S., & Masoud, M.H., 2016, Estimation of flash flood using surface water model and GIS technique in wady el Azariq: East Sinai-Egypt, *Journal of Nat. Hazards Earth Syst. Sci.*, (1), 1-51.
- Feldman, A.D., 2000, *Hydrologic Modeling System HEC-HMS, Technical Reference Manual*. U.S. Army Corps of Engineers, Hydrologic Engineering Center, HEC, Davis, CA- USA.
- Finkl, C.W., 2000, Identification of Unseen Flood Hazard Impacts in Southeast Florida through Integration of Remote Sensing and Geographic Information System Techniques. *Environmental Geosciences*, 7(3), 119–136.
- Fleming, M.J. & Dohan, J.H., 2013, "*HEC-GeoHMS Geospatial Hydrologic Modelling Extension; User's Manual v. 10.1.*" U.S. Army Corps of Engineers, Hydrologic Engineering Center, Davis, CA-USA.
- Ford, D., Pingel, N., & DeVries, J.J., 2013, *Hidrologic Modelling System HEC-HMS: application Guide*. US Army Corps of Engineers, HEC, Davis, CA-USA.
- Garambois, P.A., Roux, H., Larnier, K., Labat, D., & Dartus, D, 2015, Parameter regionalization for a process-oriented distributed model dedicated to flash floods. *Journal of Hydrology*, 525, 383–399.
- Garb, S., Bastawesy, M.E., 2015, Estimating the flash flood quantitative parameters affecting the oil-fields infrastructures in Ras Sudr, Sinai, Egypt, during the January 2010 event: Egypt, *J. Remote Sens. Space Sci*, (18), 137-149.
- Georgakakos, K.P., 2006, Analytical results for operational flash flood guidance. *Journal of Hydrology*, 317(1–2), 81–103.
- Grabs, W. E., 2010, Regional Flash Floods Guidance And Early Warning System. (www.wmo.int), Diakses Januari 2017.
- Hadi, M.P., 2003, Hubungan Antara Hujan dan Limpasan Selama Hujan Sebagai Fungsi Karakteristik Daerah Aliran Sungai (Studi Kasus Pemodelan Hidrologi Di DAS Bengawan Solo Hulu, *Disertasi*, UGM:Yogyakarta.
- Hadisusanto, N. 2011, "*Aplikasi Hidrogi*," Malang: Penerbit Jogja Media Utama.
- Halwatura, D. & Najim, M.M.M., 2013, Application of the HEC-HMS model for runoff simulation in a tropical catchment. *Environmental Modelling and Software*, 46, pp.155–162.
- Hardika, M.R., 2017, Hydrodynamics and Loss Assessment Modelling of Flood Damage, *Tesis*. UGM: Yogyakarta.
- Harto, S.B. & Dip, H., 1993, "*Analisis Hidrologi*," Jakarta: PT. Gramedia Pustaka Utama.

- Harto, S.B., 2000, *"Hidrologi: Teori Masalah Penyelesaian,"* Yogyakarta: Nafiri Offset.
- Hidayat, B., 2014, Memahami Bencana Banjir Di Kota Padang dengan *Content Analisist*, (www.researchgate.net), Diakses Januari 2017.
- Hizbaron, D. R., Baiquni, M., Sartohadi, J., & Rijanta, R., 2012, Urban vulnerability in Bantul district, Indonesia-towards safer and sustainable development. *Sustainability*, 4(9), 2022–2037.
- Hoffmeister, G. & Weisman, R.N., 2009, Accuracy of Synthetic Hydrographs Derived from Representative Basins / La Précision des Hydrogrammes Synthétiques Dérivés des Bassins Représentatifs. *Hydrological Sciences Bulletin*, ISSN: 0303-6936.
- Horton, R., 1945, Erosional Development of Streams and Their Drainage Basins, Hydrophysical Approach to Quantitative Morphology, *Geol Soc Am Bull*, (56), 275–370.
- Irsyad, F. & Ekaputra, E.G., 2015, Analisis Wilayah Konservasi Daerah Aliran Sungai (DAS) Kuranji dengan Aplikasi Swat 1. *Jurnal Teknologi Pertanian Andalas*. ISSN. 1410-1920.
- James M. Wright, 2007, Chapter 2, Types of Floods and Floodplains. *Floodplain Management, Principles and Current Practices*, (<http://training.fema.gov>), Diakses Agustus 2016.
- Jetten, 2014, A Brief Guide to open-LISEM, (www.itc.nl), Diakses Januari 2016, 1–19.
- Jonkman, S.N., 2005, Global Perspectives on Loss of Human Life Caused by Floods. *Journal of Natural Hazards*, (34), 151–175.
- Karagiorgos, K., Thaler, T., Hübl, J., Maris, F., & Fuchs, S., 2016, Multi-vulnerability analysis for flash flood risk management. *Natural Hazards*, (82), 63–87.
- Kazakis, N., Kougias, I., & Patsialis, T., 2015, Science of the Total Environment Assessment of Flood Hazard Areas at A Regional Scale using An Index-Based Approach and Analytical Hierarchy Process : Application in Rhodope Evros Region, Greece. *Science of the Total Environment*, 538, 555–563.
- Kelsch, M., 2001, *"Hydrometeorological Characteristics of Flash Floods,"* dalam: Grunfest, E., Handmer, J., (eds) *Coping with Flash Floods*, Kluwer: Dordrecht.
- Liu, C., & Li, Y., 2017, GIS-based Dynamic Modelling and Analysis of Flash Floods Considering Landuse Planning. *International Journal of Geographical Information Science*, 31(3), 481–498.
- Liu, J., Shi, Z., & Wang, D., 2016, Measuring and Mapping The Flood Vulnerability Based On Land-Use Patterns: A Case Study of Beijing, China. *J. Natural Hazards*, 83(3), 1545–1565.

- Lóczy, D., Czigány, S. & Pirkhoffer, E., 2010, Flash Flood Hazards. *Studies on Water Management Issues*, 274, 27-52, (www.intechopen.com), Diakses Agustus 2016.
- Maharani, R.D., 2016, Pemetaan Resiko Bencana Banjir Sungai Winongo Kota Yogyakarta. *Tesis*. UGM:Yogyakarta.
- Mai, D. T., & Smedt, F. De., 2017, A Combined Hydrological and Hydraulic Model for Flood Prediction in Vietnam Applied to the Huong River Basin as a Test Case Study, *water*, (9), 1-12.
- Marchi, L., Borga, M., Preciso, E., & Gaume, E., 2010, Characterisation of selected extreme flash floods in Europe and implications for flood risk management. *Journal of Hydrology*, 394(1-2), 118-133.
- Maugeri, A., 2012, Capabilities of a coupled 1D / 2D model for flood inundation simulation, *Colombia Water Center-ENGEES*, (www.water.columbia.edu), Diakses Agustus 2016.
- McCuen. R.H., 1998. Hydrologic Analysis and Design: 2nd edition. Prentice Hall, New Jersey. USA.
- Merwade, V., 2012, "Hydrologic Modeling using HEC-HMS Opening a HEC-HMS Project," Purdue University: USA.
- Merz, R., & Blöschl, G., 2003, A process typology of regional floods. *Water Resources Research*, 39(12), 1-20.
- Merz, R., Blöschl, G., 2008, Flood frequency hydrology: 1. Temporal, spatial, and causal expansion of information. *Water Resources Research*, 44(8), W08432.
- Modrick, T.M. & Georgakakos, K.P., 2015. Regional Studies The character and causes of flash flood occurrence changes in mountainous small basins of Southern California under projected climatic change. *Journal of Hydrology: Regional Studies*, (3), 312-336.
- Mukesh, S.B., Komal, C., & Alexander, K., 2017, Earth Science & Climatic Change Land Use / Cover and Vulnerability Mapping Through Remote Sensing and GIS in Atrakhan, Rusia, *J. Earth Sci Clim Change*, 8(1), 1-6.
- Mulder, T., Alexander, J., 2001, The Physical Character of Subaqueous Sedimentary Density Flows and Their Deposits. *Sedimentology* 48, 269-299.
- Mureithi, I.N., 2015, Flash Flood Hazard and Coping Strategies in Urban Areas : Case Study in Mpazi Catchment, Kigali, Rwanda, (1), 1-8.
- Muslimin, 2016, Analisis Resiko Banjir Bandang, *Tesis*. UGM: Yogyakarta.
- Musthofa, A., 2015, Simulasi Banjir Bandang Untuk System Peringatan Dini dan Peta Bahaya (Studi Kasus Bencana Banjir Bandang di Dusun Nasiri, Kecamatan Huamual, Kabupaten Seram Bagian Barat tahun 2012), *Tesis*, UGM: Yogyakarta.

- NRCAN, 2015, Landuse & Landcover, (<http://www.nrcan.gc.ca>), Diakses 4 November 2016.
- Papathoma, M., Dominey, D., Zong, Y., & Smith, D., 2003, Assessing Tsunami Vulnerability, An Example from Heraklion, Crete, *Nat. Hazards Earth Syst. Sci.* (3), 377–389.
- Papathoma, M., Kappes, M., Keiler, M., & Glade, T., 2011, Physical Vulnerability Assessment for Alpine Hazards: STATE of The Art and Future Needs. *Natural Hazards* (Vol. 58).
- Pedzisai, E., 2010, Rainfall-Runoff Modelling for Flash Floods in Cuong Thinh Catchment; Yen Bai Province: Vietnam, *Tesis*. ITC: Belanda. (www.itc.nl) Diakses Februari 2016.
- Ponce, V.M., 1989, “*Engineering Hydrology Principles and Practices*,” Prentice Hall, Englewood Cliffs, New Jersey.
- Rahayu, Triana S., 2011, Kajian Potensi Banjir Di Daerah Perkotaan DAS Code Pasca Erupsi Gunungapi Merapi Tahun 2010, *Tesis*. UGM: Yogyakarta.
- Rahman, R. & Saha, S.K., 2008, Remote Sensing, Spatial Multi Criteria Evaluation (SMCE) and Analytical Hierarchy Process (AHP) in Optimal Cropping Pattern Planning For A Flood Prone Area. *Journal of Spatial Science*, 53(2), 161–177.
- Rientjes, T.H.M., 2004, “*Invers Modelling of Rainfall-Runoff Relation: a multi objective model calibration approach*,” Delf: Delf University Press. ISBN: 90-407-2491-1.
- Rimba, A., Setiawati, M., Sambah, A., & Miura, F., 2017, Physical Flood Vulnerability Mapping Applying Geospatial Techniques in Okazaki City, Aichi Prefecture, Japan, *J. Urban Science*, 1(1), 7.
- Rodriguez dan Morata, C., 2016, Science of The Total Environment Regional Reconstruction of Flash Flood History in The Guadarrama Range (Central System, Spain). 550, 406–417.
- Saputra, A., 2015, Geospatial Assessment of Coseismic Landslides in Batu Agung Area. , 29(December), 99–113.
- SCS (US Soil Conservation Service), 1985, National Engineering Handbook, Washington, US Department of Agriculture, US: Government Printing Office.
- Setyowati, D.L., 2010, Hubungan Hujan dan Limpasan pada dinamika spasial penggunaan Lahan di DAS Kreo Jawa Tengah, *Disertasi*, UGM: Yogyakarta.
- Seyhan, E., 1990, “*Fundamentals of Hidrology/ Dasar-dasar Hidrologi*” (terjemahan), Yogyakarta: Gadjah Mada University Press.
- Smith, D.I., 1981, Actual and Potential Flood Damage: A Case Study for Urban Lismore, NSW, Australia. *Journal of Appl. Geography*, (1), 31–39.

- Smith, P.J., Panziera, L. & Beven, K.J., 2014, Forecasting Flash Floods Using Data-Based Mechanistic Models and NORA Radar Rainfall Forecasts. *Journal of Hydrological Sciences*, 59(7), 1403-1417.
- Suhandini, 2011, Banjir Bandang Di DAS Garang Jawa Tengah (Penyebab dan Implikasi), *Disertasi*, UGM: Yogyakarta.
- Thorne, C., 2002, Geomorphic analysis of large alluvial rivers. *Journal of Geomorphology* 44 (3), 209-219.
- Tivianton, T.A., 2010, Analisis Hidrologi Banjir Rancangan Terhadap Perubahan Penggunaan Lahan Dalam Berbagai Kala ulang Metode Hujan Limpasan dengan HEC-GeoHMS dan HEC-HMS, *Tesis*. UGM: Yogyakarta.
- Tran, P., 2013, GIS and Local Knowledge Mapping in Disaster Manajement, A Case Study of Flood Risk Mapping in Vietnam, *MSc Thesis*. ITC: Enschede.
- Triatmodjo, B., 2008, "*Hidrologi Terapan*," Yogyakarta: Beta Offset.
- Triatmodjo, B., 2010, "*Hidrologi Terapan*," Yogyakarta: Beta Offset.
- U.S Geological Survey, 1997, Equations for Estimating Synthetic Unit-Hydrograph Parameter Values for Small Watersheds in Lake County , Illinois. pp 96-474. Urbana; Illinois.
- UCAR [The University Corporation for Atmospheric Research], 2010, Flash Flood Early Warning System Reference Guide, (<http://www.meted.ucar.edu>), Diakses Agustus 2016.
- USDA-SCS, 1986, Soil Hydrology Classification, (<http://wmc.ar.nrcs.usda.gov>), Diakses November 2016.
- Utomo, B. & Supriharjo, R., 2012, Pemintakatan Risiko Bencana Banjir Bandang di Kawasan Sepanjang Kali Sampean, Kabupaten Bondowoso. *Jurnal Teknik ITS*, 1(1), ISSN: 2301-9271.
- Van Westen, C, 2011, Guide book Session 1 : Introduction to Disaster Risk Assessment, pp.1–29, Enschede: ITC, (www.itc.nl), Diakses Agustus 2016.
- Van Zuidam, R.A., 1985, "*Aerial Photo-Interpretation in Terrain Analysis and Geomorphologic Mapping*," The Hague: Smit Publisher.
- Van-Westen, C., & Kingma, N., 2005. *Multi-hazard Risk Assessment, Session 5*. Enschede: ITC, (www.itc.nl), Diakses Agustus 2016.
- Ven te Chow, 1959. "*Open Channel Hydraulichs*," McGraw-HILL Company, New York. USA.
- Villagran, Juan Carlos, 2006, Vulnerability: A Conceptual and Methodological Review. Studies of the University: Research, Counsel, Education. Publication Series of UNU-EHS No.4. Germany: UNU-EHS.

- Walikota Padang, 2012, “Peraturan Daerah tentang Rencana Tata Ruang dan Wilayah Kota Padang tahun 2010 – 2030,” Padang.
- Wijaya, A.T., 2004, Analisis Pengaruh Perubahan Penggunaan Lahan Terhadap Perubahan Karakteristik Hidrograf Banjir Menggunakan Perangkat Lunak Hec-HMS; Studi Di DAS Progo, *Tesis*. UGM: Yogyakarta.
- Wilkerson, J., 2009, Regional Regression Equations to Estimate Synthetic Unit Hydrograph Parameters for Indiana, *MSC thesis*, Purdue University: USA.
- Wisner, B., 2004, *Turning Knowledge into Timely and Appropriate Action: Reflections on IADB/IDEA Program of Disaster Risk Indicators. IDB/IDEA Program of Indicators for Risk Management*, Manizales: National University of Colombia: 18–24.
- Yin, J., Yu, D., Yin, Z., Liu, M., & He, Q., 2016, Evaluating The Impact and Risk of Pluvial Flash Flood on Intra-Urban Road Network: A Case Study in The City Center of Shanghai, China. *Journal of Hydrology*, 537, 138–145.
- Yogi, 2012, Sadar Bencana Masih Retorika, (www.PadangEkspress.co.id), Diakses September 2012.
- Youssef, A.M. & Pradhan, B., 2009, Geomorphological Hazards Analysis Along The Egyptian Red Sea Coast Between Safaga and Quseir. *Natural Hazards and Earth System Sciences*, (9), 751–766.
- Youssef, A.M., Pradhan, B., & Hassan, A.M., 2011, Flash Flood Risk Estimation along the St. Katherine Road, Southern Sinai, Egypt Using GIS Based Morphometry and Satellite Imagery. *Environmental Earth Sciences*, 62(3), 611–623.