

## DAFTAR PUSTAKA

- Akbar, K. 2017. *Analisis Hambur Balik Sedimen Permukaan Dasar Perairan Menggunakan Data Multibeam Echosounder EM 302*. Tugas Akhir. Departemen Teknik Geomatika Institut Teknologi Sepuluh Nopember, Surabaya.
- Anderson, JT, Holliday DV, Kloser R, Reid DG, Simard Y. 2008. *Acoustic Seabed Classification: Current Practice and Future Directions*. ICES Journal of Marine Science, 65: 1004–1011.
- Burczynski J. 2002. *Bottom Classification*. USA. BioSonics, Inc.
- Collins WT, Lacroix P. 1997. *Operational Philosophy of Acoustic Waveform Data Processing for Seabed Classification*. Singapore. COSU '97. Oceanology International '97.
- D. Caress, D. Chayes and V. Schmidt,. 2010. The MB-System cookbook.
- D. G. Simons, and M. Snellen, "A Bayesian approach to seafloor classification using multi-beam echo-sounder backscatter data," Applied Acoustics, Vo1.70, pp. 1258-1268,2009.
- Febriawan, Hanityawan D, Haryanto D, Meofti O, Irfan M. (2019). FIT ISI 2019 dan ASEANFLAG 72<sup>nd</sup> COUNCIL MEETING. *Potensi Penggunaan Sistem Multibeam Sonar Laut Dalam untuk Pemetaan Batimetri dan Backscatter*. 8-14.
- Harjono, H., Laporan Penelitian Sumenta I, Geoteknologi LIPI, 1992.
- Hasan, C., Ierodiaconou, D., Laurenson, L., Schimel, A., 2014. *Integrating Multibeam Backscatter Angular Response, Mosaic and Bathymetry Data for Benthic Habitat Mapping*. Victoria, Australia. *Plos one* 9(5): e97339. doi:10.1371/journal.pone.0097339
- Hedley, J., Roelfsema, C., Chollett, I., Harborne, A., Heron, S., Weeks, S., Skirving, W., Strong, A., Eakin, C., Christensen, T., Ticzon, V., Bejarano, S. &

- Mumby, P. (2016). *Remote Sensing of Coral Reefs for Monitoring and Management: A Review*. *Remote Sensing*, 8, 118.
- Herkül, K., Peterson, A. & Paekivi, S. (2017). *Applying multibeam sonar and mathematical modeling for mapping seabed substrate and biota of offshore shallows*. *Estuarine, Coastal and Shelf Science*, 192, 57-71.
- [http://www.htisonar.com/what\\_are\\_hydroacoustics.htm](http://www.htisonar.com/what_are_hydroacoustics.htm). Diakses pada 25 Desember 2019.
- Hill, E. M., et al. (2012), The 2010 Mw 7.8 Mentawai Earthquake: Very Shallow Source of a Rare Tsunami Earthquake Determined from Tsunami Field Survey and Near-field GPS Data, *J. Geophys. Res.*, 117, B06402, doi:10.1029/2012JB009159.
- Hughes C, J.E., L.A. Mayer, and D.E. Wells, 1996. *Shallowwater imaging multibeam sonars...*, *Marine Geophysical Researches*, 18:607–629.
- Hutabarat S, Evans SM. 2000. *Pengantar Oseanografi*. Jakarta, UI Press.
- Jackson D. R., Richardson M. D.. 2007. *High Frequency Seafloor Acoustic*. Springer Science Business Media. New York. 616 hlm.
- J. D. Beaudoin, J. E. H. Clarke and J. E. Bartlett,. 2003. *Retracing (and Raytracing) Amundsen's Journey through the Northwest Passage*. Canada.
- Lurton, X., Dugelay, S., and Augustin, J.M. (1994) *Analysis of Multibeam Echo Sounder Signals from the Deep Seafloor*. IEEE 1994, Brest, France: 213-218.
- Lurton, X., 2010 : *An Introduction to Underwater Acoustics Principles and Application*. 2nd Edition, Springer, Berlin Heidelberg.
- Newcomb, K.R. and McCann. *Seismic History and Seismotectonics of the Sunda Arc*. JGR,92, B1: 421-439.1987.
- NOAA ICT TEAM. 2019. Bathymetric Data Viewer. www.noaa.gov. Diakses 25 Desember 2019.
- Parnum I. M. and Gavrilov A. N., “*High-frequency Multibeam Echo-sounder Measurements of Seafloor Backscatter in Shallow Water: Part 2 – Mosaic Production*”, Analysis and Classification. International Journal of the Society for Underwater Technology, Perth: Curtin University, vol. 30, no. 1, (2011), pp. 13–26.

- Parnum I. M., Gavrilov A. N., Siwabessy P. J. W. and Duncan A. J., “*The effect of Incident Angle on Statistical Variation of Backscatter Measured Using a High-Frequency Multibeam Sonar*”, Proceeding of ACOUSTICS. Australia Barat: Busselton, (2005).
- Penrose J. D., Siwabessy P. J. W., Gavrilov A, Parnum I, Hamilton L. J.. 2005. *Acoustic Techniques for Seabed Classification*. Cooperative Research Centre for Coastal Zone Estuary and Waterway Management. Technical Report 32.
- Quas, L., Church, I., O'Brien, S. J., Wiggert1, J. D. & Williamson, M. (2017). *Application of High-resolution Multibeam Sonar Backscatter to Guide Oceanographic Investigations in the Mississippi Bight*.
- S. Ladage,. 2006. “*Simrad EM120 Multibeam Bathymetry System*”, Research Cruise SO189 Leg 1 SUMATRA: The Hydrocarbon System of the Sumatra Forearc, Hannover: Federal Institute for Geoscience and Natural Resources, pp. 33-35.
- Thurman H. V. 1993. *Essentials of Oceanography*, Fourth Edition, New York. Macmillan Publishing Company. hlm 84 – 103.
- United State of Geological Survey (USGS), 2010, 2010, *Magnitude 7.7 - KEPULAUAN MENTAWAI REGION, INDONESIA*, Significant Earthquake and News Headlines Archive, Earthquake Hazards Program, <http://earthquake.usgs.gov/earthquakes/eqinthenews/2010/usa00043nx/#sitech>.
- Urick, R. J. (1983) *Principles of Underwater Sound*, 3rd edn. McGraw- Hill, New York, p 423
- Van-Bemmelen, R.W., *The Geology of Indonesia*. Government Printing Office, The Hague, 732, 1949.
- Waite AD. 2002. *Sonar for Practising Engineers*. Third Edition, Chichester , West Sussex, England. John Wiley & Sons Ltd.
- Watt J. V., Eng P. 1999. *Seabed Classification – A New Layer for the Marine GIS*. Canada. Quester Tangent Corporation.
- Wentworth, C K. 1922. *A Scale of Grade And Class Terms For Clastic Sediments*. *Journal of Geology* 30: 377–392.

- Xu, Chao., Li, Haisen., Chen, B., Wang, X. 2016. *Angular Response Classification of Multibeam Sonar Based on Multi-angle Interval Division*. China Ocean Acoustics Symposium. Harbin, China.
- Zen Jr., MT, *Déformation de l'avant-arc en Réponse à Une Subduction à Convergence Oblique*. Exemple du Sumatra. Thèse de l'Université Paris 7. Paris. 199