

BAB V

KESIMPULAN DAN SARAN

5.1 Kesimpulan

1. Total berat sampah laut dari empat lokasi penelitian yang tertinggi terdapat dipantai Muara Padang dengan jumlah 3878,2 gram dan total massa sampah laut terendah terdapat dipantai pasie nan tigo dengan jumlah 623,17 gram.
2. Jenis sampah laut yang dominan di keempat lokasi penelitian adalah bahan jenis plastik dan karet sebanyak 4267,75 gram

5.2 Saran

1. Perlu dilakukan penelitian sampah laut yang berkelanjutan di Kota Padang
2. Diharapkan Pemerintah daerah Kota Padang menyediakan tempat sampah di tempat lokasi wisata.

DAFTAR PUSTAKA

- Aldrian E. 2008. Meteorologi Laut, Badan Meteorologi dan Geofisika, Jakarta.
- Allsopp, M., Walters, A., Santillo, D., dan Johnston P. 2006. *Plastic debris in the World's Ocean.* 43p, Greenpeace. Amsterdam. Netherland. Jambeck et.al.2015. Plastic waste inputs from land into the ocean.*Journal Science Vol. 347 No. 6223*
- Assuyuti Y.M, R.B. Zikrillah, M.A Tanzil, A. Banata, P. Utami. 2018. Distribusi dan Jenis Sampah Laut serta Hubungannya terhadap Ekosistem Terumbu Karang Pulau Pramuka, Panggang, Air, dan Kotok Besar di Kepulauan Seribu Jakarta. *Majalah Ilmiah Biologi Biosfera: A Scientific Journal* 35(2): 91-102.
- Cheshire A., Adler E., Barbière J., Cohen Y., Evans S., Jarayabhand S., Jeftic L., Jung R.-T., Kinsey S., Kusui E.T., Lavine I., Manyara P., Oosterbaan L., Pereira M.A., Sheavly S., Tkalin A., Varadarajan S., Wenneker B., Westphalen G. 2009. UNEP/IOC Guidelines on Survey and Monitoring of Marine Litter. Regional Seas Reports and Studies No. 186 IOC Technical Series No. 83.
- Derraik, J.G.B. 2002. The pollution of the marine environment by plastic debris: A review. *Marine Pollution Bulletin*, 44(9): 842-852.
- Eriksen M, Lebreton LCM, Carson HS, Thiel M, Moore CJ, Borerro JC, Ryan PG. 2014. *Plastic Pollution in the World's Oceans: More than 5 Trillion Plastic Pieces Weighing over 250,000 Tons Afloat at Sea.* *Journal Plos One* 10: 1-15.
- Fleming, L.E., N. McDonough, M. Austen, L. Mee, M. Moore, P. Hess, M.H. Depledge, M. White, K. Philippart, P. Bradbrook & Smalley, A., 2014. Oceans and Human Health: A Rising Tide of Challenges and Opportunities for Europe. *Marine Environmental Research* 99: 16-19.
- Galgani, F., D. Fleet, J.V. Franeker, S. Katsanevakis, T. Maes, J. Mouat, L. Oosterbaan, I. Poitou, G. Hanke, R. Thompson, E. Amato, A. Birkun, and C. Janssen. 2010. Marine Strategy Framework Directive—Task Group 10 Report Marine Litter. *Scientific and Technical Reports* (ed. N Zampoukas). European Commission Joint Research Centre.
- Gregory, M.R. 2009. Environmental implications of plastic debris in marine settings—entanglement, ingestion, smothering, hangers-on, hitch-hiking and alien invasions. *Philosophical Transactions of the Royal Society B*, 364: 2013-2025.

- Greenpeace, 2006. Eating Up Amazon. Greenpeace Publications., 2006b. We're Trashin' It; How McDonald's is Eating Up Amazon.
- Hardesty BD, Harari J, Isobe A, Lebreton L, Maximenko N, Potemra J, Wilcox C. 2017. Using Numerical Model Simulations to Improve the Understanding of Micro-plastic Distribution and Pathways in the Marine Environment. *Frontiers in Marine Sciences* 4: 1-9.
- Indonesia P.R. 2008. Undang-Undang Republik Indonesia Nomor 8 Tahun 2008 Tentang Pengelolahan Sampah, Jakarta.
- Isman F.M. 2016. Identifikasi Sampah Laut di Kawasan Wisata Pantai Kota Makassar, Departemen Ilmu Kelautan, Universitas Hasanuddin, Makassar.
- Jalil A.R. 2013. Distribusi kecepatan arus pasang surut pada muson peralihan barat timur terkait hasil tangkapan ikan pelagis kecil di perairan Spermonde. *Depik* 2(1).
- Jambeck, J.R., R. Geyer, C. Wilcox, T.R. Siegler, M. Perryman, A. Andrade, R. Narayan, & Law, K.L., 2015. Plastic waste inputs from land into the ocean. *Journal of Sciences* 347: 768-771.
- Kusumawati I, M. Setyowati, dan I.Y. Salena. 2018. Identifikasi Komposisi Sampah Laut Di Pesisir Aceh Barat. *Jurnal Perikanan Tropis* 5(1): 59-69.
- Law KL. 2017. Plastics in the Marine Environment. *Annual Review of Marine Sciences* 9: 205-232.
- Lebreton, L.C.M., J.V.D. Zwet, J. Damsteeg, B. Slat, A. Andrade, J. Reisser. 2017. River plastic emissions to the world's oceans. *Nature Communications*, 8: 1-10.
- Li, W.C., H.F. Tse, L. Fok. 2016. Plastic waste in the marine environment: A review of sources, occurrence and effects. *Science of the Total Environment*, 566-567: 333-349. Faisal, M. 2015. Analisis laju alir sampah dan emisi karbon yang dihasilkan Kota Banda Aceh
- Lippiat, S., Opfer, S. and Arthur, C. 2013. Marine debris and monitoring assessment. NOAA.
- NOAA. 2015. Turning the Tide on Trash. *A Learning Guide on Marine Debris*. NOAA PIFSC CRED.
- Orejon L.F.R., Rafael Sard, Juan Ramis-Pujol. 2016. Floating plastic debris in the Central and Western Mediterranean Sea. *Marine Environmental Research* 120: 136-144

current role on the transport and stranding of floating marine litter: the French Riviera case. *Continental Shelf Research* 155: 11– 20.

Rochman C. M., A. Tahir, S.L. Williams, D.V. Baxa, R. Lam, J.T. Miller, F.C. Teh, S. Werorilangi & Teh., S.J., 2015. Anthropogenic debris in seafood: Plastic debris and Fibers from textiles in fish and bivalves sold for human consumption. *Scient. Repor.*

Rothausler E., V. Jormalainen, L. Gutow, and M. Thiel. 2019. Low Abundance of Floating Marine Debris in the Northern Baltic Sea. *Marine Pollution Buletin* 149: 15.

Schwarz, A.E., T.N. Ligthart, E. Boukris, T. van Harmelen. 2019. Sources, transport, and accumulation of different types of plastic litter in aquatic environments: A review study. *Marine Pollution Bulletin*, 143: 92-100.

SCIRO. 2015. Marine debris: Sources, distribution and fate of plastic and other refuse – and its impact on ocean and coastal wildlife, Oceans and Atmosphere Flagship.

Siahainenia. 2001. Pencemaran Laut, Dampak dan Penangulangannya. Makalah Falsafah Sains Program Pasca Sarjana.IPB Bogor.

Sugianto D.N., ADS A. 2007. Studi Pola Sirkulasi Arus Laut di Perairan Pantai Provinsi Sumatera Barat. Program Studi Oseanografi, Jurusan Ilmu Kelautan FPIK UNDIP Semarang 12 (2):79-92.

Tanto T.A., Wisha U.J., Kusumah G., Pranowo W.S., Husrin S., Ilham, Putra A. 2017. Karakteristik Arus Laut Perairan Teluk Benoa-Bali. Lokal Riset Sumber Daya dan Kerentanan Pesisir, BRSDMKP KKP Pusat Riset Kelautan, BRSDMKP KKP 23 nomor 1:37-48.

Tangdesu, T. R. C. 2018. Identifikasi Sampah Laut di Muara Sungai Biringkassi dan Wilayah Pesisir dan Sekitarnya di Kabupaten Takalar. Skripsi. Fakultas Ilmu Kelautan dan Perikanan. Universitas Hassanuddin. Makassar

Thiel M., I. Hinojosa, N. V_asquez, and E. Macaya.2003. Floating marine debris in coastal waters of the SE-Pacific (Chile). *Marine Pollution Bulletin* 46: 224– 231.

Torres E.R.D, C.D.O Ortiz, L.S. Iñiguez, A.N. Preciado, E.O. Orozco. 2016. Floating Marine Debris in waters of the Mexican Central Pacific. *Marine Pollution Bulletin* 115(1-2): 225-232

Zulkifli, Thaha H.M.A., Karamma R. 2016. Simulasi Gelombang Perairan Sulaa Kota Baubau dengan Menggunakan SMS (Surface Water Modeling System). Universitas Hasanuddin.

Opfer, S., C. Arthur and S. Lippiatt. 2012. NOAA Marine Debris Shoreline Survey Field Guide. National Oceanic and Atmospheric Administration.

Zulkarnaen, A. 2017. Identifikasi Sampah Laut (*Marine Debris*) di Pantai Budia Kecamatan Galesong, Pantai Karama Kecamatan Galesong Utara, dan Pantai Mandi Kecamatan Galesong Selatan Kabupaten Takalar. Skripsi. Fakultas Ilmu Kelautan dan Perikanan. Universitas Hasanudin. Ma

