UNIVERSITAS
GADJAH MADA
Pengaruh Musim Terhadap Konsentrasi Klorofil-a (Chl-a) untuk Estimasi Satellite Derived Bathymetry (SDB)
Rico Adi Pratama, Ir. Abdul Basith, S.T., M.Si., Ph.D.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

DAFTAR PUSTAKA

Alianto, Kambanussy, Y., Sembel, L., & Hamuna, B. (2020). Akumulasi Biomasa Fitoplankton yang Diukur sebagai Klorofil-a di Perairan Teluk Doreri, Provinsi Papua Barat. *Jurnal Kelautan Tropis*, *23*(2), 247–254.

Ashphaq, M., Srivastava, P. K., & Mitra, D. (2023). Preliminary examination of influence of Chlorophyll , Total Suspended Material , and Turbidity on Satellite Derived-Bathymetry estimation in coastal turbid water. *Regional Studies in Marine Science*, *62*, 102920. https://doi.org/10.1016/j.rsma.2023.102920

Barnes, B. B., Hu, C., Schaeffer, B. A., Lee, Z., Palandro, D. A., & Lehrter, J. C. (2013). MODIS-derived spatiotemporal water clarity patterns in optically shallow Florida Keys waters: A new approach to remove bottom contamination. *Remote Sensing of Environment*, *134*, 377–391. https://doi.org/10.1016/j.rse.2013.03.016

BSN. (2015). *SNI 8202 Ketelitian Peta Dasar*. 1–29.

Caballero, I., & Stumpf, R. P. (2019). Retrieval of nearshore bathymetry from Sentinel-2A and 2B satellites in South Florida coastal waters. *Estuarine, Coastal and Shelf Science*, *226*(June), 106277. https://doi.org/10.1016/j.ecss.2019.106277

Caballero, I., Stumpf, R. P., & Meredith, A. (2019). Preliminary assessment of turbidity and chlorophyll impact on bathymetry derived from sentinel-2A and sentinel-3A satellites in South Florida. *Remote Sensing*, *11*(6), 1–20. https://doi.org/10.3390/rs11060645

Campbell, J. B., & Wynne, R. H. (2011). *Introduction to remote sensing (5th ed.)*.

Chen, J., Wang, K., Li, X., Zhao, X., Cheng, X., & Liu, Z. (2024). Remote sensing inversion of water quality parameters (TSM , Chl-a , and CDOM) in subtidal seaweed beds and surrounding waters. *Ecological Indicators*, *167*(October), 112716. https://doi.org/10.1016/j.ecolind.2024.112716

Davies, K. (2004). *Plant Pigments and their Manipulation* (Vol. 14).

Faizal, A. (2023). Zonasi Perairan Kepulauan Spermonde Berdasarkan Konsentrasi Nutrient dan Dampaknya Terhadap Ekosistem Terumbu Karang Zonation of the Waters of Spermonde Archipelago Base on Nutrient Concentration and its Impact to Coral Reef Ecosystem. *Torani: JFMarSci*, *6*(June), 126–137.

UNIVERSITAS
GADJAH MADA
Pengaruh Musim Terhadap Konsentrasi Klorofil-a (Chl-a) untuk Estimasi Satellite Derived Bathymetry (SDB)
Rico Adi Pratama, Ir. Abdul Basith, S.T., M.Si., Ph.D.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Gao, B. C. (1996). NDWI—A normalized difference water index for remote sensing of vegetation liquid water from space. *Remote Sensing of Environment*, *58*(3), 257–266. https://doi.org/10.1016/S0034-4257(96)00067-3

Google Earth Engine. (2023). *Compositing, Masking, and Mosaicking*. https://developers.google.com/earth-engine/tutorials/tutorial_api_05

Google Earth Engine. (2024). *Compositing and Mosaicking*. https://developers.google.com/earth-engine/guides/ic_composite_mosaic

Handoko, E. Y., Syariz, M. A., & Hanansyah, M. P. (2024). Variasi Klorofil-a di Perairan Sekitar Laut Jawa , Laut Flores , dan Selat Makassar. *Geoid*, *19*(3), 418–428.

Hidayat, R. R., Amron, A., Husni, I. A., Prihatiningsih, I., Hartoyo, H., Trenggono, M., & Hakim, M. R. (2025). Accuracy Test of Satellite Imagery-Derived Bathymetry in Shallow Waters Using Sentinel-2a Multispectral Imagery. *Geodesy and Cartography (Vilnius)*, *51*(2), 107–114. https://doi.org/10.3846/gac.2025.21128

Hu, C., Feng, L., Lee, Z., Franz, B. A., Werdell, P. J., & Proctor, C. W. (2019). Improving Satellite Global Chlorophyll a Data Products Through Algorithm Re fi nement and Data Recovery. *Journal of Geophysical Research: Oceans*, *10*, 1–20. https://doi.org/10.1029/2019JC014941

Hu, C., Lee, Z., & Franz, B. (2012). Chlorophyll a algorithms for oligotrophic oceans: A novel approach based on three-band reflectance difference. *Journal of Geophysical Research: Oceans*, *117*(1), 1–25. https://doi.org/10.1029/2011JC007395

IHO. (2026). *Regulations of the IHO for International (INT) Charts and Chart Specifications of the IHO* (4.10.0).

International Hydrographic Organization. (2024). *International Hydrographic Organization Guidance to Satellite-Derived Bathymetry* (Issue 377).

International Ocean-Colour Coordinating Group. (2000). *Remote Sensing of Ocean Colour in Coastal , and Other Optically-Complex , Waters*.

IOCCG. (2006). Remote Sensing of Inherent Optical Properties : Fundamentals, Tests of Algorithms, and Applications. In *Reports of the International Ocean Colour Coordinating Group, 5* (Issue 5).

UNIVERSITAS
GADJAH MADA
Pengaruh Musim Terhadap Konsentrasi Klorofil-a (Chl-a) untuk Estimasi Satellite Derived Bathymetry (SDB)
Rico Adi Pratama, Ir. Abdul Basith, S.T., M.Si., Ph.D.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Khakhim, N. (2024). *Rapid Bathymetry Mapping Based on Shallow Water Cloud Computing in Small Bay Waters: Pilot Project in Pacitan-Indonesia*. *VII*(4).

Lee, Z., Carder, K. L., & Arnone, R. A. (2002). Deriving inherent optical properties from water color: a multiband quasi-analytical algorithm for optically deep waters. *Applied Optics*, *41*(27), 5755. https://doi.org/10.1364/ao.41.005755

Li, J., Knapp, D. E., Lyons, M., Roelfsema, C., Phinn, S., Schill, S. R., & Asner, G. P. (2021). Automated global shallowwater bathymetry mapping using google earth engine. *Remote Sensing*, *13*(8). https://doi.org/10.3390/rs13081469

Li, J., Knapp, D. E., Schill, S. R., Roelfsema, C., Phinn, S., Silman, M., Mascaro, J., & Asner, G. P. (2019). Adaptive bathymetry estimation for shallow coastal waters using Planet Dove satellites. *Remote Sensing of Environment*, *232*(January), 111302. https://doi.org/10.1016/j.rse.2019.111302

Lubac, B., Burvingt, O., Lerma, A. N., & Nadia, S. (2022). *Performance and Uncertainty of Satellite-Derived Bathymetry Empirical Approaches in an Energetic Coastal Environment*.

Lyzenga, D. R., Malinas, N. P., & Tanis, F. J. (2006). *Multispectral Bathymetry Using a Simple Physically Based Algorithm*. *44*(8), 2251–2259.

Mabula, M. J., Kisanga, D., & Pamba, S. (2023). Application of machine learning algorithms and Sentinel-2 satellite for improved bathymetry retrieval in Lake Victoria, Tanzania. *Egyptian Journal of Remote Sensing and Space Science*, *26*(3), 619–627. https://doi.org/10.1016/j.ejrs.2023.07.003

Masykur, S. F. (2020). *Pemetaan Perairan Laut Dangkal Menggunakan Algorita Stupf Pada Citra Sentinel-2 di Pulau Morotai*. 643–650.

McFeeters, S. K. (1996). The use of the Normalized Difference Water Index (NDWI) in the delineation of open water features. *International Journal of Remote Sensing*, *17*(7), 1425–1432. https://doi.org/10.1080/01431169608948714

Mobley, C. D. (1995). *The optical properties of water* (pp. 43.3-43.56). Handbook of optics.

Mobley, C. D., Sundman, L. K., & Scientific Sequoia. (1994). *Light and water: Radiative transfer in natural waters*.

Morel, A., & Maritorena, S. (2001). Bio-optical properties of oceanic waters: A reappraisal. *Journal of Geophysical Research: Oceans*, *106*(C4), 7163–7180.

UNIVERSITAS
GADJAH MADA
Pengaruh Musim Terhadap Konsentrasi Klorofil-a (Chl-a) untuk Estimasi Satellite Derived Bathymetry (SDB)
Rico Adi Pratama, Ir. Abdul Basith, S.T., M.Si., Ph.D.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

https://doi.org/10.1029/2000jc000319

Muhammad, F., & Tsimpouxis, I. (2025). Investigating the Impact of Spatiotemporal Variations in Water Surface Optical Properties on Satellite-Derived Bathymetry Estimates in the Eastern Mediterranean. *Remote Sensing*, *17*, 1–27.

Munawaroh, Wicaksono, P., & Rudiastuti, A. (2022). Pemetaan mobilitas penduduk di kawasan pinggiran Kota Bandung. *Majalah Geografi Indonesia*, *36*(2), 95. https://doi.org/10.22146/mgi.70636

Nalendra, A. R. A. (2021). *Statistika Seri Dasar Dengan SPSS*.

Ningsih, M. S., Susilo, E., Rahmadina, Qolby, F. H., & Tanjung, D. D. (2024). *Dasar-Dasar Fisiologi Tumbuhan* (Pertama). CV HEI PUBLISHING INDONESIA.

NOAA. (2001). *Tidal Datums and Their Applications*.

Nugraheni, A. D., Zainuri, M., Wirasatriya, A., & Maslukah, L. (2022). Sebaran Klorofil-a secara Horizontal di Perairan Muara Sungai Jajar , Demak. *Buletin Oseanografi Marina*, *11*(2), 221–230. https://doi.org/10.14710/buloma.v11i2.40004

Pratama, N. I., & Kun Cahyono, B. (2024). The Utilization of Sentinel-2 Image Data for Bathymetric Mapping with Satellite Derived Bathymetry Approach. *Journal of Geospatial Science and Technology*, *2*(1), 37–45. https://doi.org/10.22146/jgst.v2i1.11178

Rosalina, D., Rizkiah, R., Handayani, E., Wardono, S., Sutrisno, B. O., Ismail, R. M., Leilani, A., & Amiluddin, M. (2024). *Pola Arus dan Sebaran Klorofil-a di Perairan Laut Flores pada Tahun 2021*. *17*(3), 201–212.

Rossarie, D., Firman, S. W., Risfany, & Kusumarani, D. (2022). Kesesuaian Lokasi Kapal Penangkap Ikan dengan Daerah Potensi Penangkapan Ikan di Perairan Kabupaten Raja Ampat Berdasarkan Data Citra Satelit. *Jurnal Ilmu-Ilmu Perikanan Dan Budidaya Perairan*, *17*, 120–128.

Safi'i, A. N., & Dewi, R. S. (2020). Uji Akurasi Metode Berbasis Citra Satelit untuk Ekstraksi Data Batimetri. *Teknik*, *41*(2), 142–151. https://doi.org/10.14710/teknik.v0i0.29516

Sarifah, A., Pratikto, I., Suryono, C. A., Prof, J., Rais, J., & Tengah, J. (2024). Potensi Perikanan di Perairan Selatan Yogyakarta Ditinjau dari Sebaran Klorofil-a , Suhu Permukaan Laut , dan Particulate Organic Carbon Berbasis Citra Satelit Aqua

UNIVERSITAS
GADJAH MADA
Pengaruh Musim Terhadap Konsentrasi Klorofil-a (Chl-a) untuk Estimasi Satellite Derived Bathymetry (SDB)
Rico Adi Pratama, Ir. Abdul Basith, S.T., M.Si., Ph.D.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

MODIS. *Jurnal Kela*, *27*(1), 187–196.

Slovin, E. (1960). *Slovin's Formula for Sampling Technique*.

Stumpf, R. P., Holderied, K., & Sinclair, M. (2003). Determination of water depth with high-resolution satellite imagery over variable bottom types. *Limnology and Oceanography*, *48*(1 II), 547–556. https://doi.org/10.4319/lo.2003.48.1_part_2.0547

Sudradjat, A., Muntalif, B. S., Marasabessy, N., & Mulyadi, F. (2024). Relationship between chlorophyll-a , rainfall , and climate phenomena in tropical archipelagic estuarine waters. *Heliyon*, *10*(4), e25812. https://doi.org/10.1016/j.heliyon.2024.e25812

Sugiyono. (2019). *Metode Penelitian Kuantitatif, Kualitatif, dan R&D*.

Team. (2017). Planet Application Program Interface: In Space for Life on Earth. In *Planet*. https://cir.nii.ac.jp/crid/1370302864794266370.bib?lang=en

Thompson, D. R., Hochberg, E. J., Asner, G. P., Green, R. O., Knapp, D. E., Gao, B. C., Garcia, R., Gierach, M., Lee, Z., Maritorena, S., & Fick, R. (2017). Airborne mapping of benthic reflectance spectra with Bayesian linear mixtures. *Remote Sensing of Environment*, *200*(August 2016), 18–30. https://doi.org/10.1016/j.rse.2017.07.030

Vahtmäe, E., Kutser, T., & Paavel, B. (2020). Performance and Applicability of Water Column Correction Models in Optically Complex Coastal Waters. *Remote Sensing*, *12*, 1–17.

Vanhellemont, Q. (2019). Adaptation of the dark spectrum fitting atmospheric correction for aquatic applications of the Landsat and Sentinel-2 archives. *Remote Sensing of Environment*, *225*(November 2018), 175–192. https://doi.org/10.1016/j.rse.2019.03.010

Vanhellemont, Q., & Ruddick, K. (2014). Turbid wakes associated with offshore wind turbines observed with Landsat 8. *Remote Sensing of Environment*, *145*, 105–115. https://doi.org/10.1016/j.rse.2014.01.009

Violita, F. (2023). *Cara atau Teknik Pengambilan Sampel Penelitian*.

Wang, M., & Shi, W. (2007). The NIR-SWIR combined atmospheric correction approach for MODIS ocean color data processing. *Optics Express*, *15*(24), 15722. https://doi.org/10.1364/oe.15.015722

UNIVERSITAS
GADJAH MADA
Pengaruh Musim Terhadap Konsentrasi Klorofil-a (Chl-a) untuk Estimasi Satellite Derived Bathymetry (SDB)
Rico Adi Pratama, Ir. Abdul Basith, S.T., M.Si., Ph.D.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Wang, M., & Son, S. (2016). VIIRS-derived chlorophyll-a using the ocean color index method. *Remote Sensing of Environment*, *182*, 141–149. https://doi.org/10.1016/j.rse.2016.05.001

Werdell, P. J., & Bailey, S. W. (2005). An improved in-situ bio-optical data set for ocean color algorithm development and satellite data product validation. *Remote Sensing of Environment*, *98*(1), 122–140. https://doi.org/10.1016/j.rse.2005.07.001

Westley, K. (2021). Satellite-derived bathymetry for maritime archaeology: Testing its effectiveness at two ancient harbours in the Eastern Mediterranean. *Journal of Archaeological Science: Reports*, *38*(April), 103030. https://doi.org/10.1016/j.jasrep.2021.103030

Wirasatriya, A., Susanto, R. D., Setiawan, J. D., Ramdani, F., Iskandar, I., Jalil, A. R., Puryajati, A. D., Kunarso, K., & Maslukah, L. (2021). High chlorophyll-a areas along the western coast of south sulawesi-indonesia during the rainy season revealed by satellite data. *Remote Sensing*, *13*(23). https://doi.org/10.3390/rs13234833

Xu, H. (2006). Modification of normalised difference water index (NDWI) to enhance open water features in remotely sensed imagery. *International Journal of Remote Sensing*, *27*(14), 3025–3033. https://doi.org/10.1080/01431160600589179

Zhao, S., Tu, K., Ye, S., Tang, H., Hu, Y., & Xie, C. (2023). Land Use and Land Cover Classification Meets Deep Learning: A Review. *Sensors (Basel, Switzerland)*, *23*(21). https://doi.org/10.3390/s23218966

Zhu, J., Hu, P., Zhao, L., Gao, L., Qi, J., Zhang, Y., Wang, R., Zhu, J., Hu, P., Zhao, L., Gao, L., Qi, J., Zhang, Y., & Wang, R. (2020). Determine the Stumpf 2003 Model Parameters for Multispectral Remote Sensing Shallow Water Bathymetry. *Journal of Coastal Research*, *102*, 54–62. https://doi.org/10.2112/SI102-007.1