

DAFTAR PUSTAKA

- [1] M. D. Farhan, S. Salahuddin, dan A. Setianto, *Zonasi Wilayah Bahaya Tsunami dengan Pemodelan Run Up Tsunami Kabupaten Kebumen, Jawa Tengah*. Yogyakarta: Universitas Gadjah Mada, 2022. [Online]. Tersedia: http://etd.repository.ugm.ac.id/home/detail_pencarian_downloadfiles/1007491. [Diakses: 25-Sep-2025].
- [2] A. I. S. Lubis dan S. Susilawati, “Analisis Penerapan Keselamatan dan Kesehatan Kerja Pada Nelayan Penangkap Ikan di Indonesia,” *Gudang Jurnal Multidisiplin Ilmu*, vol. 2, no. 7, Juli 2024, hlm. 69–73.
- [3] “14 Kapal Nelayan Tenggelam di Perairan Kalbar, 52 ABK Masih dalam Pencarian,” *Pontianak Informasi*, 15 Juli 2021. [Online]. Tersedia: <https://pontianakinformasi.co.id/news/14-kapal-nelayan-tenggelam-di-perairan-kalbar-52-abk-masih-dalam-pencarian/> pontianakinformasi.co.id [Diakses: 25-Sep-2025].
- [4] Komite Nasional Keselamatan Transportasi (KNKT), “Laporan dan Informasi Statistik-Statistik Pelayaran,” *KNKT*, [Online]. Available: <https://m.knkt.go.id/statistik>
- [5] Badan Pusat Statistik (BPS) Kota Padang, “Jumlah Rumah Tangga Perikanan Tangkap Menurut Subsektor Perikanan Laut di Kota Padang,” *Tabel Statistik – BPS Kota Padang*. [Online]. Available: <https://padangkota.bps.go.id/id/statistics-table/2/NDQ2IzI%3D/jumlah-rumah-tangga-perikanan-tangkap-menurut-subsektor-perikanan-laut-di-kota-padang.html>. Accessed: Dec. 21, 2025.
- [6] Z. Randi, “Waspada Gelombang 2,5 Hingga 4 Meter, Cek Prakiraan BMKG Maritim Teluk Bayur”, *Padang Ekspres*, 2025. [Online]. Available: <https://padek.jawapos.com/sumbar/2511080012/waspada-gelombang-25-hingga-4-meter-di-perairan-sumatera-barat-cek-prakiraan-bmkg-maritim-teluk-bayur>.
- [7] W. S. Indriani, D. Pujiastuti, and K. Ondara, “Analisis Hindcasting Gelombang Terhadap Perubahan Garis Pantai di Perairan Pesisir Pantai

- Padang Menggunakan Data Angin Permukaan”, *JFU*, vol. 11, no. 3, pp. 334–340, Jul. 2022.
- [8] Andri, Cuaca Buruk, Hasil Tangkapan Nelayan Pessel Menurun”, Pemerintah Kabuptaen Pesisir Selatan, 2024. [Online]. Available: <https://pesisirselatankab.go.id/berita/cuaca-buruk-hasil-tangkapan-nelayan-pessel-menurun>. [Accesed: Oct, 11 2025].
- [9] Nofrita *et al.*, "Sebaran spasial suhu permukaan laut dan klorofil-a pada daerah penangkapan ikan cakalang (*Katsuwonus pelamis*) di perairan Sumatera Barat," *Jurnal Biologi UNAND*, vol. 12, no. 1, pp. 66–72, 2024.
- [10] N. Ningsih, A. Agussalim, B. S. Barus, and Hartoni, "Variabilitas spasio-temporal suhu permukaan laut di pesisir Kabupaten Banyuasin Propinsi Sumatera Selatan," *Jurnal Enggano*, vol. 9, no. 1, pp. 1–10, Apr. 2024
- [11] BMKG, “Informasi Prakiraan Cuaca Maritim Indonesia,” BMKG, 2025. [Online]. Available: <https://maritim.bmkg.go.id/>
- [12] P. Ulia, “Perancangan Sistem Pemantauan Kondisi Gelombang Laut dengan Wireless Sensor Networks Menggunakan Metode Multi Hop Routing Protocol,” Skripsi, Universitas Andalas, 2024.
- [13] Pegawai Stasiun Meteorologi H. Asan Kotawaringin Timur, “Buletin Meteorologi Edisi Maret 2020,” Badan Meteorologi Klimatologi Dan Geofisika Stasiun Meteorologi H. Asan Kotawaringin Timur, 2020.
- [14] M. A. Ramadhan, F. T. Anggraeny, dan C. A. Putra, "Klasifikasi Curah Hujan Harian Menggunakan Metode K-Nearest Neighbor," *JATI (Jurnal Mahasiswa Teknik Informatika)*, vol. 8, no. 3, hal. 3863-3869, Jun. 2024.
- [15] Badan Standardisasi Nasional (BSN), *RSNI 3 ISO 5725-1:2023 — Akurasi (Ketepatan dan Presisi) Metode dan Hasil Pengukuran – Bagian 1: Prinsip Umum dan Definisi*, Jakarta: BSN, 2023.
- [16] Republik Indonesia, *Undang-Undang Nomor 17 Tahun 2008 tentang Pelayaran*, Lembaran Negara Republik Indonesia Tahun 2008 Nomor 64, Jakarta, 2008.
- [17] Republik Indonesia, *Undang-Undang Nomor 24 Tahun 2007 tentang Penanggulangan Bencana*, Lembaran Negara Republik Indonesia Tahun 2007 Nomor 66, Jakarta, 2007.

- [18] Republik Indonesia, *Undang-Undang Nomor 24 Tahun 2007 tentang Penanggulangan Bencana*, Lembaran Negara Republik Indonesia Tahun 2007 Nomor 66, Jakarta, 2007.
- [19] RevoU, "Decision Tree: Pengertian, Cara Kerja, dan Contohnya," *RevoU*, 2024. [Online]. Available: <https://www.revou.co/kosakata/decision-tree> [Accessed: Oct. 10, 2025].
- [20] Institut Teknologi Sumatera (ITERA), "Representasi Linear," Repository ITERA, 2021. [Online]. Available: https://repo.itera.ac.id/assets/file_upload/SB2106080005/16117053_4_073927.pdf. [Accessed: Oct. 16, 2025]
- [21] Omega Engineering, "General Purpose RTD Probes: PR-10 Series Pt100," Omega Engineering Technical Datasheet, 2024. [Online]. Available: <https://www.omega.com>.
- [22] Maxim Integrated, "DS18B20: Programmable Resolution 1-Wire Digital Thermometer," Datasheet Rev. 6, Analog Devices Inc., 2019. [Online]. Available: <https://datasheets.maximintegrated.com/en/ds/DS18B20.pdf>.
- [23] Vishay BCcomponents, "NTC Thermistors, Radial Leaded, Standard Precision," Datasheet NTCLE100E3, Vishay Intertechnology, Jan. 2023.
- [24] OKelechi, "Performance Evaluation of a Resistive Rain Sensor for IOT Applications," *International Journal of Engineering Works*, vol. 6, no. 10, pp. 340-345, 2021.
- [25] Misol Electronics, "Technical Specification for WH-SP-RG Rain Gauge Sensor," *Misol Technical Data*, 2023. [Online]. Available: <http://www.misol.com>.
- [26] Hydreon Corporation, "RG-11 Rain Gauge Instructions and Data Sheet," *Hydreon Corp*, 2022. [Online]. Available: <https://rainsensors.com>.
- [27] SISCO, "Cup Anemometer 0.45 m/s," *SISCO Instruments*. [Online]. Available: <https://www.sisco.com/cup-anemometer-0-45-m-s>
- [28] Smart Weather Sensor, "XF-C2 Propeller Anemometer," *SmartWeatherSensor.com*. [Online]. Available: <https://id.smartweathersensor.com/weather-sensors/xf-c2-propeller-anemometer.html>

- [29] Meteo Nusantara, "R.M. Young 81000 Ultrasonic Anemometer," *Meteo Nusantara*. [Online]. Available: <https://meteonusantara.com/r-m-young-81000-ultrasonic-anemometer/>
- [30] Google Share, "Private Shared Image Resource," *Google Share Platform*. [Online]. Available: <https://share.google/images/xcjtZR5SGJaWoBDKT>
- [31] Bosch Sensortec, "BNO055 Data Sheet", BST-BNO055-DS000-14, 2016.
- [32] InvenSense Inc, "MPU-6050 Data Sheet", RM-MPU-6000AA-00., 2013.
- [33] Shenzhen Chipskey Technology Co., Ltd., "GY-86 Datasheet".
- [34] K. Townsend dan E. Hendra, "Adafruit BNO055 Absolute Orientation Sensor", 2023. [Online]. Available: <https://learn.adafruit.com/adafruit-bno055-absolute-orientation-sensor/overview> [Accessed: Oct. 11, 2025]
- [35] Bosch Sensortec GmbH, "BNO055 Intelligent 9-axis absolute orientation sensor," *Data sheet*, Doc. No. BST-BNO055-DS000-12, Rev. 1.2, Nov. 2014. [Online]. Available: https://cdn-shop.adafruit.com/datasheets/BST_BNO055_DS000_12.pdf. [Accessed: Jan. 5, 2026].
- [36] Honeywell, "HMC5883L Datasheet".
- [37] "5mm LED Specifications," Make-It.ca, n.d. [Daring]. Tersedia pada: <https://www.make-it.ca/5mm-led-specifications/>. [Diakses: 5 Jan. 2026].
- [38] "Kode Angka LED: Arti di Balik 2835, 3528, dan 5050," MyLikeLED, 22 Mar. 2025. [Daring]. Tersedia pada: <https://mylikeled.com/id/pengertian-kode-angka-pada-led-arti-2835-3528-dan-5050/>. [Diakses: 5 Jan. 2026].
- [39] "HPL 1 Watt High Power LED Cool/Warm White, White (Putih), Pink, Biru (Blue), Green (Hijau), Red (Merah), Grow," Shopee, n.d. [Daring]. Tersedia pada: <https://shopee.co.id/HPL-1-Watt-High-Power-LED-Cool-Warm-White-White-Putih-Pink-Biru-Blue-Green-Hijau-Red-Merah-Grow-i.63734101.2690771889>. [Diakses: 5 Jan. 2026].
- [40] Components101, "NEO-6M V2 GPS Module," *Components101.com*. [Online]. Available: <https://components101.com/modules/neo-6mv2-gps-module>
- [41] u-blox, "NEO-M8N-0 GNSS/GPS Module," *Mouser Electronics*. [Online]. Available: <https://www.mouser.co.id/ProductDetail/u-blox/NEO-M8N-0>

- [42] u-blox, "ZED-F9P GNSS Module," *Mouser Electronics*. [Online]. Available: <https://www.mouser.co.id/new/u-blox/ublox-zedf9p-gnss-module/>
- [43] PCB Online, "LoRa vs WiFi vs BLE: Which Wireless Technology to Choose," *PCBOnline.com*. [Online]. Available: <https://www.pcbonline.com/blog/lora-vs-wifi-vs-ble.html>
- [44] Victron Energy, "LM1010 USB Bluetooth adapter," Datasheet. [Online]. Available: <https://communityarchive.victronenergy.com/storage/attachments/lm1010-usb-bluetooth-adapter.pdf> (akses: 14 Nov. 2025). [60]
- Google, "zigbee harga," Google Search. [Online]. Available: <https://www.google.com/search?q=zigbee+harga> (akses: 14 Nov. 2025).
- [45] Digi International Inc., "Digi XBee 3 Zigbee 3.0," Datasheet. [Online]. Available: https://www.mouser.com/datasheet/2/111/ds_xbee-3-zigbee-3-1288823.pdf (akses: 14 Nov. 2025).
- [46] Arduino, "Arduino UNO Rev3," Hardware Documentation, (2022)
- [47] Microchip Technology Inc., "ATmega328P: 8-bit Microcontroller with 32K Bytes In-System Programmable Flash," Datasheet Complete, (2020).
- [48] Espressif Systems, "ESP32-WROOM-32 Datasheet," Espressif Document ESP32-WROOM-32-D, (Rev. 3.0, 2021).
- [49] Mouser Electronic, "ESP32-DevkitC-32D", 2025. [Online]. Available: https://www.mouser.co.id/ProductDetail/Espressif-Systems/ESP32-DevKitC-32D?qs=%252BEew9%252B0nqrDsObWEpDx6YQ%3D%3D&srsId=AfmBOoqp_CocaBx_CULCHLhpUxkiKfHcwt7gxHvLIOEf5UBeH9qbIX8d. [Accessed: Oct. 11, 2025].
- [50] "Mengenal Plastik ABS (Acrylonitrile butadiene styrene)," Tokoplas.com, 18 Nov. 2020. [Daring]. Tersedia pada: <https://tokoplas.com/blog/plastic/mengenal-plastik-abs>. [Diakses: 5 Jan. 2026].
- [51] Maxipro Indonesia, "Apa Itu Akrilik? Inilah Pengertian, Karakteristik, dan Jenisnya," Maxipro, 27 Mei 2022. [Daring]. Tersedia pada: <https://maxipro.co.id/apa-itu-akrilik/>. [Diakses: 5 Jan. 2026].

- [52] ROBOT Official, "ROBOT RT17 Smart Powerbank Mini 37W 10000mAh with Cable USB to Type-C Fast Charging (Original) Garansi 1 Tahun," Tokopedia. [Online]. Available: <https://www.tokopedia.com/robotofficial/robot-rt17-smart-powerbank-mini-37w-10000mah-with-cable-usb-to-type-c-fast-charging-original-garansi-1-tahun-1730795064327505077>. Accessed: Jan. 5, 2026.
- [53] DigiWare, "Baterai Lithium Li-Ion 18650", 2025, [Online]. Available: <https://digiwarestore.com/id/batteries/baterai-lithium-li-ion-18650-37v-3000mah-pointed-top-rechargeable-battery-633178.html>. [Accessed: Oct. 11 2025]
- [54] Dingdonginc, "Baterai LiPo 10000 mAh 1260100 3.7V 37Wh (10 × 6 cm, tebal 1.2 cm) Lithium Polymer," Tokopedia. [Online]. Available: <https://www.tokopedia.com/dingdonginc/baterai-lipo-10000-mah-1260100-3-7v-37wh-10-x-6-cm-tebal-1-2cm-lithium-polymer-batre-10cm-x-6cm-universal-elektronik-kamera-rc-drone-motor-speaker-bluetooth-air-sf-1731181787519943924>. Accessed: Jan. 5, 2026.

