

## DAFTAR PUSTAKA

- [1] H. A. Rahman, "Air Pollution in Urban Areas and Health Effects Pencemaran Udara di Kawasan Bandar dan Kesan terhadap Kesehatan," *Int. J. Malay World Civilis.*, no. 2, hlm. 25–33, 2016.
- [2] Ismiyati, D. Marlita, dan D. Saidah, "Pencemaran Udara Akibat Emisi Gas Buang Kendaraan Bermotor," *J. Manaj. Transp. Logist. JMTransLog*, vol. 01, 2014.
- [3] Sumaryati, "Polusi Udara di Kawasan Cekungan Bandung," *Ber. Dirgant.*, vol. 12, hlm. 83–89, 2011.
- [4] Irwan Gumilara, Hasanuddin Z. Abidina, Lambok M. Hutasoitb, Dudung M. Hakimc, Teguh P. Sidiqa, Heri Andreasa. "Land subsidence in Bandung Basin and its possible caused factors" *Procedia Earth and Planetary Science* 12. pp.47-62. 2015.
- [5] Yasmeen, Z. "Inversion Layer and Its Environmental Impact over Karachi". *Pakistan Journal of Meteorology*. Vol. 7, Issue 14. 2011.
- [6] E. Hermawan, "PROFIL VERTIKAL SUHU ATMOSFER DI ATAS INDONESIA BERBASIS HASIL ANALISIS DATA SATELIT FORMOSAT-3/COSMIC," vol. 7, no. 1, hlm. 25, 2009.
- [7] X.-B. Li, D.-S. Wang, Q.-C. Lu, Z.-R. Peng, dan Z.-Y. Wang, "Investigating vertical distribution patterns of lower tropospheric PM<sub>2.5</sub> using unmanned aerial vehicle measurements," *Atmos. Environ.*, vol. 173, hlm. 62–71, Jan 2018, doi: 10.1016/j.atmosenv.2017.11.009.
- [8] Z.-R. Peng, D. Wang, Z. Wang, Y. Gao, dan S. Lu, "A study of vertical distribution patterns of PM<sub>2.5</sub> concentrations based on ambient monitoring with unmanned aerial vehicles: A case in Hangzhou, China," *Atmos. Environ.*, vol. 123, hlm. 357–369, Des 2015, doi: 10.1016/j.atmosenv.2015.10.074.

- [9] N. Komala, "VARIASI TEMPORAL KONSENTRASI KARBON DIOKSIDA (CO<sub>2</sub>) DAN TEMPERATUR DI INDONESIA BERBASIS DATA OBSERVASI AQUA-AIRS," hlm. 10, 2010.
- [10] A. Sya'Bani dkk., "Pemantauan Konsentrasi PM<sub>2.5</sub> dan CO<sub>2</sub> Berbasis Low-Cost Sensor secara Real-Time di Cekungan Udara Bandung Raya," vol. 21, no. 1, hlm. 7, 2020.
- [11] Rita, Esrom Hamonangan, Susy Lahtiani, Diah Dwiana Lestiani. "Kualitas Udara (PM<sub>10</sub> dan PM<sub>2.5</sub>) Untuk Melengkapi Kajian Indeks Kualitas Lingkungan Hidup". Ecolab Vol. 10. 2016.
- [12] Samiaji, Toni. "Gas CO<sub>2</sub> di Wilayah Indonesia". Berita Dirgantara Vol. 12. 2011.
- [13] SIFTARU. "Cekungan Bandung". [Online]. <http://sifataru.atrbpn.go.id>. (diakses tanggal 20 Februari 2019).
- [14] Stull, Rolland. "Practical Meteorology An Algebra-based Survey of Atmospheric Science". University of British Columbia.2016.
- [15] Kaimal, J. C. & Finnigan, J. J. (1994). Atmospheric boundary layer flows their structure and measurement. Oxford: Oxford University Press.
- [16] J. V.-G. de Arellano dan K. van den Dries, Atmospheric Boundary Layer: Integrating Air Chemistry and Land Interactions. Cambridge University Press, 2015.
- [17] Suroso, Indreswari. "Peran Drone/Unmanned Aerial Vehicle (Uav) Buatan Sttkd Dalam Dunia Penerbangan". Pusat Kajian Kebijakan Penerbangan dan Antariksa.2016.
- [18] Safari, Nurliana. "Rancang Bangun Alat Pemberi Isyarat Kecepatan Maksimum Melalui Sms Gateway Berbasis Mikrokontroler Pada Helm". Politeknik Negeri Sriwijaya. 2016.
- [19] Aakash C. Raia, Prashant Kumara, Francesco Pillac, Andreas N. Skouloudisd, Silvana Di Sabatinoe, Carlo Rattif, Ansar Yasarg, David Rickerby. "End-User Perspective Of Low-Cost Sensors For Outdoor Airpollution Monitoring". Science of the Total Environment. 2017.

- [20] F. Vaicdan, I. Chandra, dan A. Suhendi, "PENGAMATAN KONSENTRASI MASSA PM<sub>2.5</sub> DI CEKUNGAN UDARA BANDUNG RAYA," hlm. 8, 2019.
- [21] DFROBOT. "PM<sub>2.5</sub> laser dust sensor SKU:SEN0177". [Online]. [https://www.dfrobot.com/wiki/index.php/PM2.5\\_laser\\_dust\\_sensor\\_SKU:SEN0177](https://www.dfrobot.com/wiki/index.php/PM2.5_laser_dust_sensor_SKU:SEN0177). (diakses 7 April 2019).
- [22] DFROBOT. "Gravity: Analog Infrared CO<sub>2</sub> Sensor For Arduino SKU: SEN0219". [Online]. [https://www.dfrobot.com/wiki/index.php/Gravity:\\_Analog\\_Infrared\\_CO2\\_Sensor\\_For\\_Arduino\\_SKU:\\_SEN0219](https://www.dfrobot.com/wiki/index.php/Gravity:_Analog_Infrared_CO2_Sensor_For_Arduino_SKU:_SEN0219). (diakses 7 April 2019).
- [23] RAE Systems. "Theory and Operation of NDIR Sensors". Honeywell. 2014.
- [24] SGX Sensortech. Infrared Sensor Application Note 1 A Background to Gas Sensing by Non-Dispersive Infrared (NDIR). 2007.
- [25] Zahidali. "Introduction to DHT22". [Online]. [www.theengineeringprojects.com /2019/02/introduction-to-dht22.html](http://www.theengineeringprojects.com/2019/02/introduction-to-dht22.html). (diakses 7 April 2019).
- [26] Peter Kupferschmied, Christian Roduner, George Gyarmathy. "Some Considerations on Using Miniature Pressure Sensors in Fast-Response Aerodynamic Probes for Flow Temperature Measurements". Swiss Federal Institute of Technology. 1998.
- [27] COMPONENTS101. "BMP180 - Atmospheric Pressure Sensor". [Online]. <https://components101.com/sensors/bmp180-atmospheric-pressure-sensor>. (diakses 7 April 2019).
- [28] Stack Exchange. "How to calculate altitude from current temperature and pressure?". [Online]. <https://physics.stackexchange.com/questions/333475/how-to-calculate-altitude-from-current-temperature-and-pressure>. (diakses 7 April 2019).
- [29] NORDIC SEMICONDUCTOR. "Single chip 2.4 GHz Transceiver". [Online]. [www.sparkfun.com/datasheets/Components/nRF24L01\\_prelim\\_prod\\_spec\\_1\\_2.pdf](http://www.sparkfun.com/datasheets/Components/nRF24L01_prelim_prod_spec_1_2.pdf). (diakses 7 April 2019).

- [30] A. Abdurrachman, I. Chandra, dan R. A. Salam, "RANCANG BANGUN ALAT UKUR KONSENTRASI GAS CO<sub>2</sub> DAN NO<sub>2</sub> UNTUK PENGAMATAN EMISI DARI PEMBAKARAN SAMPAH RUMAH TANGGA," 2020.
- [31] "DJI Phantom 4 – Specs, FAQ, Tutorials and Downloads," *DJI Official*. <https://www.dji.com/id/phantom-4/info> (diakses 15 Agustus 2020).
- [32] T. Villa, F. Salimi, K. Morton, L. Morawska, dan F. Gonzalez, "Development and Validation of a UAV Based System for Air Pollution Measurements," *Sensors*, vol. 16, no. 12, hlm. 2202, Des 2016, doi: 10.3390/s16122202.
- [33] P. Y. Haas, C. Balistreri, P. Pontelandolfo, G. Triscone, H. Pekoz, dan A. Pignatiello, "Development of an unmanned aerial vehicle UAV for air quality measurement in urban areas," dipresentasikan pada 32nd AIAA Applied Aerodynamics Conference, Atlanta, GA, Jun 2014, doi: 10.2514/6.2014-2272.
- [34] C. C. Ginting, I. Chandra, dan R. A. Salam, "RANCANG BANGUN SISTEM KALIBRASI SEDERHANA UNTUK *LOW-COST* SENSOR PM<sub>2.5</sub> BERBASIS NEBULIZER," 2020.
- [35] BMKG, "Akses Data," DATA ONLINE PUSAT DATABASE - BMKG. <http://dataonline.bmkg.go.id/home> (diakses Jan 15, 2020).
- [36] M. Babakhan, "MAJOR AIR MASSES OVER AUSTRALIA," hlm. 42.
- [37] "Analysis Chart Archive," *Australian Government Bureau of Meteorology*. <http://www.bom.gov.au/australia/charts/archive/index.shtml> (diakses Jan 15, 2020).
- [38] R. A. A. Barus, I. Chandra, dan I. W. Fathona, "RANCANG BANGUN PORTABLE WEATHER STATION DALAM MENDUKUNG PENGAMATAN MIKROPARTIKEL DI CEKUNGAN UDARA BANDUNG RAYA," hlm. 9.
- [39] J. B. Babaan, J. P. Ballori, A. M. Tamondong, R. V. Ramos, dan P. M. Ostrea, "ESTIMATION OF PM<sub>2.5</sub> VERTICAL DISTRIBUTION USING CUSTOMIZED UAV AND MOBILE SENSORS IN BRGY. UP CAMPUS, DILIMAN, QUEZON CITY," *ISPRS - Int. Arch. Photogramm. Remote Sens.*

*Spat. Inf. Sci.*, vol. XLII-4/W9, hlm. 89–103, Okt 2018, doi: 10.5194/isprs-archives-XLII-4-W9-89-2018.

- [40] X. Li *dkk.*, “Vertical Distribution of Particulate Matter and its Relationship with Planetary Boundary Layer Structure in Shenyang, Northeast China,” *Aerosol Air Qual. Res.*, vol. 19, no. 11, hlm. 2464–2476, 2019, doi: 10.4209/aaqr.2019.06.0311.
- [41] T. Chiba *dkk.*, “Measuring Regional Atmospheric CO<sub>2</sub> Concentrations in the Lower Troposphere with a Non-Dispersive Infrared Analyzer Mounted on a UAV, Ogata Village, Akita, Japan,” *Atmosphere*, vol. 10, no. 9, hlm. 487, Agu 2019, doi: 10.3390/atmos10090487.
- [42] T. A. Aziz *dkk.*, “Analysis of Spatial and Temporal Variation of Criteria Air Pollutants in Bangkok Metropolitan Region (BMR) during 2000&ndash;2015,” dalam *Proceedings of The 1st International Electronic Conference on Atmospheric Sciences*, Sciforum.net, Jul 2016, hlm. B006, doi: 10.3390/ecas2016-B006.
- [43] M. B. Marinov, I. Topalov, B. Ganev, E. Gieva, dan V. Galabov, “UAVs Based Particulate Matter Pollution Monitoring,” dalam *2019 IEEE XXVIII International Scientific Conference Electronics (ET)*, Sozopol, Bulgaria, Sep 2019, hlm. 1–4, doi: 10.1109/ET.2019.8878586.
- [44] Sumaryati, “POTENSI LONG-RANGE TRANSPORT POLUTAN UDARA DARI CEKUNGAN BANDUNG,” dalam *Prosiding SNSA*, 2016.
- [45] S. Liu dan X.-Z. Liang, “Observed Diurnal Cycle Climatology of Planetary Boundary Layer Height,” *J. Clim.*, vol. 23, no. 21, hlm. 5790–5809, Nov 2010, doi: 10.1175/2010JCLI3552.1.
- [46] F. Oktarina, “PEMILIHAN LOKASI PEMANTAUAN KUALITAS UDARA DI JAKARTA BERDASAR SEBARAN KONSENTRASI PENCEMAR MAKSIMUM LUARAN MODEL WRF-CHEM,” hlm. 72.
- [47] N. W. S. Puspa Dewi, T. June, M. Yani, dan M. Mujito, “ESTIMASI POLA DISPERSI DEBU, SO<sub>2</sub> DAN NO<sub>x</sub> DARI INDUSTRI SEMEN MENGGUNAKAN MODEL GAUSS YANG DIINTEGRASI DENGAN SCREEN3,” *J. Pengelolaan Sumberd. Alam Dan Lingkung. J. Nat. Resour.*

*Environ. Manag.*, vol. 8, no. 1, hlm. 109–119, Apr 2018, doi: 10.29244/jpsl.8.1.109-119.

- [48] V. Fitriani, “ESTIMASI KETINGGIAN PLANETARY BOUNDARY LAYER INDONESIA MENGGUNAKAN DATA ECMWF INTERIM REANALYSIS”, hlm. 57.
- [49] Y. Li, J. Deng, C. Mu, Z. Xing, dan K. Du, “Vertical distribution of CO<sub>2</sub> in the atmospheric boundary layer: Characteristics and impact of meteorological variables”, *Atmos. Environ.*, vol. 91, hlm. 110–117, Jul 2014, doi: 10.1016/j.atmosenv.2014.03.067.