DAFTAR PUSTAKA

[1] Uman, Martin A, *The Art and Science of Lightning Protection*, University of Frorida, Cambridge University Press, 2008.

[2] Emeraldi, Primas dan Ariadi Hazmi, "Karakteristik Medan Listrik Atmosfer Kota Padang dan Hubungannya Dengan Sambaran Petir Awan ke Tanah", JNTE, Vol. 6, No. 1, Maret, 2017.

[3] Dian. Anggaryni, *Analisa Data Medan Listrik dan Durasi Badai Petir Hingga Sambaran Petir Jenis Cloud to Ground Negative*. Tugas Akhir. Universitas Andalas. 2017.

[4] Fort, Ada, *et al*. "Design, modeling, and test of a system for atmospheric electric field measurement." *IEEE Transactions on Instrumentation and Measurement* 60.8 (2011): 2778-2785.

[5] Sabu, Sebin, *et al*. "Electric field characteristics during a thunderstorm: A review of characteristics of electric field prior to lightning strike." *2017 IEEE International Conference on Signal Processing, Informatics, Communication and Energy Systems (SPICES)*. IEEE, 2017.

[6] Ferro, Marco Antonio Da Silva, *et al.* "Lightning risk warnings based on atmospheric electric field measurements in Brazil." *Journal of Aerospace Technology and Management* 3.3 (2011): 301-310.

[7] Vadreas, Andrew Kurniawan, Primas Emeraldi, dan Ariadi Hazmi. 2014. "Sistem Informasi Petir (SIP) dengan Metode Lightning Distribution (LD) di Wilayah Sumatera Barat". Jurnal Nasional Teknik Elektro. 3(2): 177-182.

[8] Rachidi F And Rubinstein M. 4th International COST Symposium On Lightning Physics And Effects. Vienna.2009.

[9] Thunderstorm.https://www.britannica.com/science/thunderstorm. (Diakses pada 15 Desember 2020) pukul 17: 10 WIB.

[10] Hero, Bambang Jane.2016. Karakteristik Stepped Leader Petir Negatif dengan Interval Preliminary Breakdown dan Return Stroke yang Singkat.[Skripsi]. Padang: Jurusan Teknik Elektro Universitas Andalas.

[11] Dwyer, J. R., & Uman, M. A. (2014). The physics of lightning. Physics Reports, 534(4), 147-241.

[12] Hendri, Zulka dan Ariadi Hazmi. 2014. "Karakteristik Preliminary Breakdown Petir Downward Leader Sebelum Sambaran Negatif Pertama". *Jurnal Nasional Teknik Elektro.* 3(1): 25-31.

[13] Petir (lightning or Thunderstorm). https://climatecentre08.wordpress.com/tag/awan/. (Diakses pada 15 Desember 2020) pukul 03 : 56 WIB.

[14] W. D. Rust *et al.*, "Inverted-Polarity Electrical Structures In Thunderstorms In The Severe Thunderstorm Electrification And Precipitation Study (STEPS)," Atmos. Res., vol. 76, no. 1–4, pp. 247– 271, 2005.

[15] Bloemink, H. (2013). *Static electricity measurements for lightning warnings-an exploration*. INFRAR&D KNMI.

[16] Mission Instrument. *Electric Field Mill Operation*. Mission Instruments Co. Arizona. 2005.

[17] Boltek. *EFM-100 Atmospheric Electric Field Monitor Instalation/Operation Guide*. Boltek Corporation. Canada. 2015.