

DAFTAR PUSTAKA

- [1] Melia Warni, *Analisa Sambaran Petir Negatif Awan Ke Bumi Yang Diawali Dengan Pulsa Preliminary Breakdown Terminologi BIL*, Tugas Akhir dan Tesis, Jurusan Teknik Elektro, Fakultas Teknik.Universitas Andalas, 2016
- [2] Karunarathne, S., T. C. Marshall, M. Stolzenburg, and N. Karunarathna (2015), *Observations of Positif Narrow Bipolar Pulses*, J. Geophys. Res. Atmos., 120, 71
- [3] Sepriza Azmi, *Karakteristik Initial Electric Field Change (IEC) dengan Data VHF Pada Petir Cloud to Cloud (CC)*, Tugas Akhir dan Tesis, Jurusan Teknik Elektro, Fakultas Teknik, Universitas Andalas, 2019.
- [4] A. R. Jacobson and M. J. Heavner, *Comparison of Narrow Bipolar Events With Ordinary Lightning As Proxies For Severe Convection*, Monthly Weather Review, Vol. 133, Pp. 1144 –1154, May, 2005
- [5] Sexcio Okky Alexander, *Karakteristik Preliminary Breakdown Petir Terminologi Breakdown-Leader (BL) Sebelum Sambaran Negatif Pertama*, Jurusan Teknik Elektro, Fakultas Teknik.Universitas Andalas, 2015.
- [6] Rison, W. et al.,*Observations of narrow bipolar events reveal how lightning is initiated in thunderstorms*, 7:10721, 2016.
- [7] Nishihashi, M. et al. *Three Dimensional VHF Lightning Mapping System for Winter Thunderstorms* Journal of Atmospheric and Oceanic Technology, vol:30-2, 2013
- [8] Qiu, Shi, Bi-Hua Zhou, Li- Hua Shi, *Synchronized observations of cloud-to-ground lightning using VHF broadband interferometer and acoustic arrays*, Journal of Geophysical research, vol. 117, D19204, 2012
- [9] Hazmi, A., Emeraldi, P., Hamid, M.I., Melati, S., Takagi, N. 2019. *Reconstruction of Lightning Channel Based on Acoustic Radiation*, International Journal on Electrical Engineering and Informatics, Volume 11, Number 2.

- [10] Anugrah, Fadjarin. 2017. *Korelasi Antara Sambaran Petir Negatif Awan ke Bumi dengan Citra Satelit Cuaca* [Skripsi]. Padang: Jurusan Teknik Elektro Universitas Andalas.
- [11] Hazmi, Ariadi. 2019. *Petir Penomena Alam, Bahaya, dan Manfaatnya*. Universitas Andalas.
- [12] Bermudez, J, L. 2003. *Lightning currents and electromagnetic fields associated with return strokes to elevated strike objects*. Univesity Valle.
- [13] DeCaria.2005. *Cloud Physics and Precipitation Processes*.
- [14] Rachidi F and Rubinstein M. 4th International COST Symposium on Lightning Physics and Effects, Vienna, 2009.
- [15] Dwyer, Joseph R., Uman Martin A. 2014. *The Physics Of Lightning. Physics Reports.* 534: 147-241.
- [16] Clarence, N. D. and D. J. Malan. 1957. *Preliminary Discharge Processes in Lightning Flashes to Ground*. Quarterly Journal of the Royal Meteorological Society. 83: 161–172.
- [17] Rakov, V, A., *The Physics of Lightning*. 2013. University of Florida. USA.
- [18] Uman, M.A. 1987. *The Lightning Discharge*. Academic. San Diego.
- [19] Anggrayni, Dian. 2017. *Analisa Data Medan Listrik dan Durasi Badai Petir Hingga Sambaran Petir Jenis Cloud to Ground Negatif* [Skripsi]. Padang: Jurusan Teknik Elektro Universitas Andalas.
- [20] Qie, X dkk. 2002. *Some Features of Stepped and Dart-Stepped Leaders Near The Ground in Natural Negatif Cloud-to-Ground Lightning Discharges*. *Annales Geophysicae.* 20: 863-870.
- [21] Donald W. Boyd, 2001, *CHAPTER 8 - Stochastic Analysis, Systems Analysis and Modeling*, Academic Press, Pages 211-227.
- [22] Bodhika, J, A, P., W, G, D, Dharmarathna., Mahendro, F., Vernon, C. 2013. *Reconstruction of Lightning Channel Geometry by Localizing Thunder Source*. Department of Physics, University of Ruhuna, Sri Lanka.