Phenomenon: Thunderstorms

I have always been interested in thunderstorms – weather, really – but storms, in particular, hold a dear place in my heart. Sitting with your mother as a storm rages on and she reads to you is a good way to spark those connections. Mostly, though, storms are a big mystery; unpredictable beasts of the heavens, barely able to be kept track of *as they’re happening*. They’re gigantic puzzles that, to solve it, people stumble upon pieces one at a time rather than starting with a full set.

Thinking about the physics of a storm in particular is very interesting as well. Lightning cracks through the air unevenly, never in the same path twice. And yet, always from a negative cloud to the positive earth. Unpredictability aside, there are still many ways we can analyze storms, *especially* electro-statically. Electric fields, potential lines, charge distribution based on cloud shape; phenomena occur in droves with storms, and pursuing these phenomena is my goal.

Citations to look over possibly;

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Link: <http://onlinelibrary.wiley.com/doi/10.1029/2003GL017781/pdf>

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Hane, C. E., & Ray, P. S. (1985). Pressure and buoyancy fields derived from Doppler radar data in a tornadic thunderstorm. *Journal of the atmospheric sciences*, *42*(1), 18-35.

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