

## **Title: National Lightning Detection Network (NLDN) Data**

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### **1.0 Data Set Overview:**

- Introduction to data: <https://www.vaisala.com/en/products/national-lightning-detection-network-nldn>;
- Time period covered by the data:
  - January 14, 2022 – January 15, 2022
  - January 17, 2022 – January 20, 2022
  - January 28, 2022 – January 31, 2022
  - February 4, 2022 – February 5, 2022
  - February 12, 2022 – February 13, 2022
  - February 17, 2022 – February 20, 2022
  - February 24, 2022 – February 26, 2022
- Data Domain:
  - UPPER-LEFT: 48°N, 87.5°W
  - LOWER-RIGHT: 36.5°N, 66.5°W
- Physical location of NLDN Network: <https://www.jstor.org/stable/pdf/26216779.pdf>

### **2.0 Instrumentation Description:**

- <https://www.jstor.org/stable/pdf/26216779.pdf>

### **3.0 Data Collection and Processing:**

- The data were collected in real-time and have not had any quality control applied.

- Secondary processing included separating the total data into daily data, converting the time data to seconds-from-midnight (SFM), and outputting the data to UND/NASA ASCII data format using the Airborne Data Processing and Analysis (ADPAA) package (Delene, D. J., Airborne Data Processing and Analysis Software Package, Earth Science Informatics, 4(1), 29-44, 2011, URL: <http://dx.doi.org/10.1007/s12145-010-0061-4>, DOI: 10.1007/s12145-010-0061-4).

#### **4.0 Data Format**

- The data are available in NASA/UND ASCII format (YYYYMMDD\_NLDN\_IMPACTS.txt).
- The data are written in daily files.
- Units and all metadata can be found in each data file.

#### **5.0 Data Remarks**

- Each data file contains the detected lightning strokes (from the NLDN) within the listed domain on a specific day (listed in the file name) from 00:00:00 to 23:59:59 UTC.