



## DESCRIPTION OF THE DATASET

**Contents of data:** lightning information (timestamp, position, physical parameters)

**Related filenames:**

**alha**<YYYYMMDD>\_0000.txt.zip real-time lightning data  
**alHa**<YYYYMMDD>\_0000.txt.zip archive, daily lightning data set

YYYY - year  
MM - month  
DD - day

### ATTRIBUTES

**Origin of data:** OMSz lightning localization network

**Covered timescale:** max. 24 hours (00:00-23:59 UTC)

**Temporal resolution:** continuous

**Updating frequency:** every 2 minutes (alha), daily (alHa)

**Format:** ASCII txt readable text

**Order:** by records' timestamp

### Parameters and file format:

See the explained example below:

```
"20120914 21:33:50.1684423 46.2026 18.9899 0.0 1 -6.4 1.406"
```

1. column	20120914	Date: 14th Sep. 2012.
2. column	21:33:50.1684423	Time: 21 hour 33 min 50 sec 1684423 fraction of second
3. column	46.2026	latitude
4. column	18.9899	longitude
5. column	0.0	Height of source: in case of cloud-to-ground lightning the value is 0.0 in case of intra-cloud lightning the value is different from 0.0
6. column	1	Type of lightning:



		cloud-to-ground: 1, intra-cloud: 2
7. column	-6.4	Estimated peak current in kiloamps (kA) +/- marks show the signs of the lightning current
8. column	1.406	Estimated localization error in kilometres (km) calculated by the mathematical algorithm

#### **CONTACT POINT**

[odp@met.hu](mailto:odp@met.hu)