

Lightning Activity Report for Dağpazarı RES

Analyzed Period:

01-05-2024 - 31-05-2024

Centroid Coordinates:

Latitude: 36.76824

Longitude: 33.41431

Report Generated: 13-08-2025 17:57

This report provides comprehensive lightning and storm activity analysis for wind farm operations and safety assessment. Each section includes detailed explanations to help you understand the data and make informed decisions about turbine safety

Turbine Information

This table contains detailed information about all turbines in the wind farm.

Turbine	Lat	Lng	Unit Power (MWm)	Unit Power (MWe)	Tower Height (m)	Rotor Diameter (m)	Altitude (m)
T1	36.7719	33.4050	N/A	N/A	N/A	N/A	N/A
T2	36.7703	33.4075	N/A	N/A	N/A	N/A	N/A
T3	36.7686	33.4100	N/A	N/A	N/A	N/A	N/A
T4	36.7664	33.4125	N/A	N/A	N/A	N/A	N/A
T5	36.7642	33.4147	N/A	N/A	N/A	N/A	N/A
T6	36.7628	33.4175	N/A	N/A	N/A	N/A	N/A
T7	36.7728	33.4117	N/A	N/A	N/A	N/A	N/A
T8	36.7706	33.4142	N/A	N/A	N/A	N/A	N/A
T9	36.7617	33.4200	N/A	N/A	N/A	N/A	N/A
T10	36.7669	33.4192	N/A	N/A	N/A	N/A	N/A
T11	36.7658	33.4217	N/A	N/A	N/A	N/A	N/A
T12	36.7739	33.4164	N/A	N/A	N/A	N/A	N/A
T13	36.7747	33.4206	N/A	N/A	N/A	N/A	N/A
T14	36.7733	33.4011	N/A	N/A	N/A	N/A	N/A
T15	36.7597	33.4228	N/A	N/A	N/A	N/A	N/A

Turbine Group Information:

Total turbines: 15

Overall centroid: Lat 36.76824, Lng 33.41431

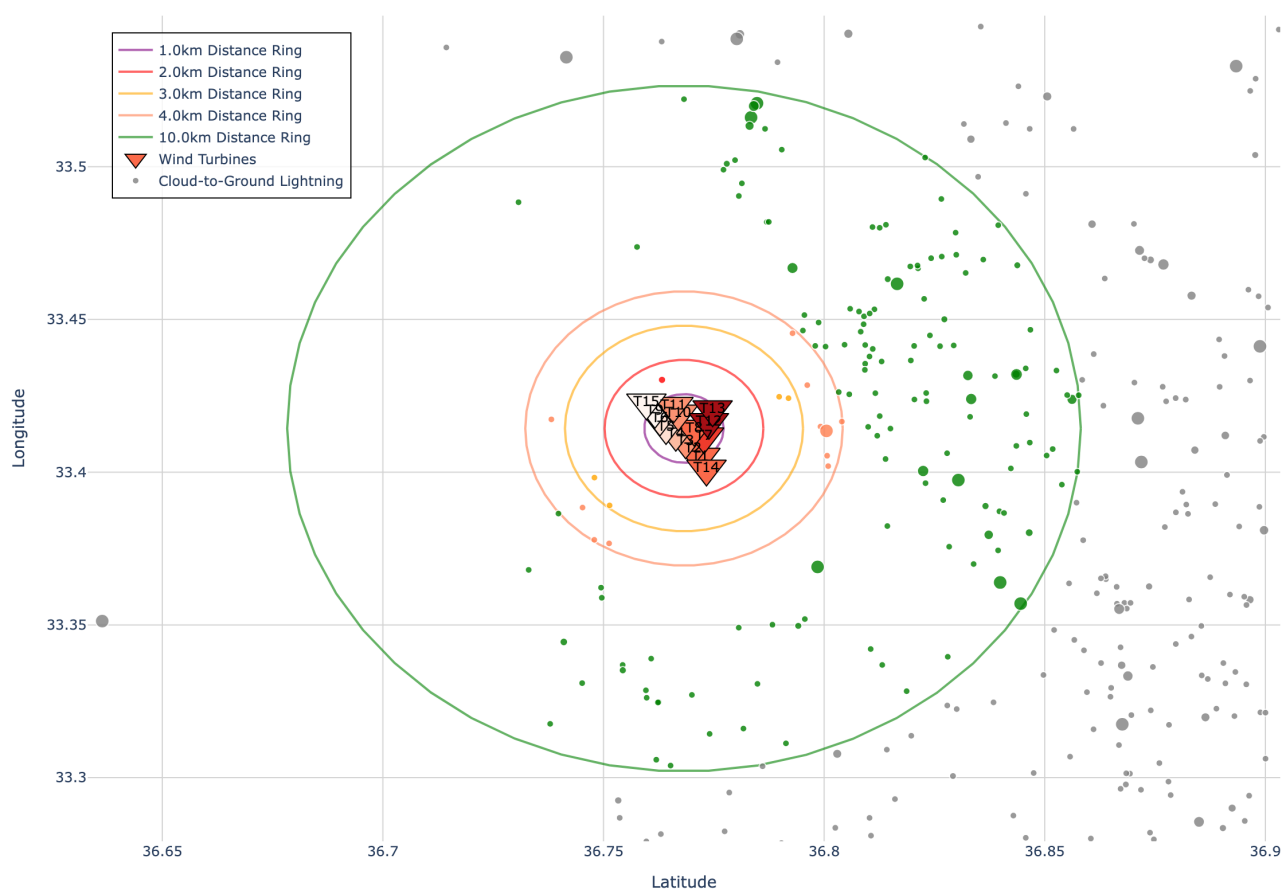
Analysis radius: 10.0 km from centroid

Map Interpretation Guide:

- Lightning circles: Size correlates with current magnitude (amperes) - larger circles = higher current
- Turbine colors: Red tone intensity correlates with risk score - darker red = higher risk
- Distance rings: Show proximity zones from turbine centroid (1km, 2km, 3km, 4km, 10km)
- Coordinate planes: X-axis = Latitude, Y-axis = Longitude
- Turbine markers: Inverted triangle symbols with turbine names
- Storm cells: Purple star symbols with 'S' label (if any)

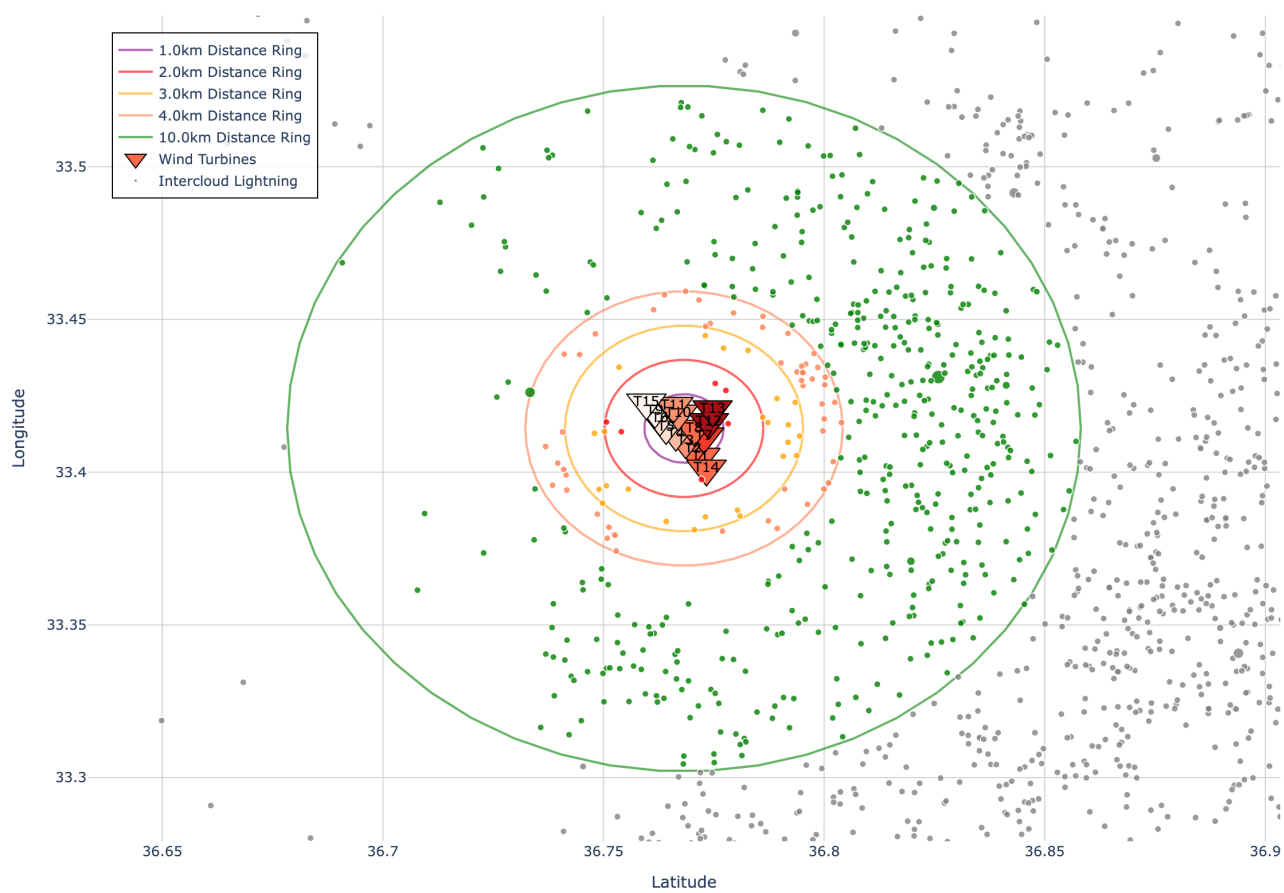
Cloud-to-Ground Lightnings

Cloud-to-Ground Lightning - Coordinate Plane View - Central Turbine: Group 1



Intercloud Lightnings

Intercloud Lightning - Coordinate Plane View - Central Turbine: Group 1



Turbine Risk Assessment

Group 1 Turbines

Turbine Name	Log Risk
T13	1.08
T12	1.06
T7	1.04
T8	1.02
T14	1.02
T1	1.01
T2	1.00
T3	0.99
T10	0.99
T11	0.98
T4	0.97
T5	0.95
T6	0.94
T9	0.93
T15	0.91

Daily Lightning Breakdown by Distance Rings

Area covered within 10.0 km radius: 314.2 km²

Total lightnings within 10.0 km radius: 705 events

Total lightning density: 2.244 events/km²

(Calculation: 705 total lightnings / 314.2 km² area)

Daily lightning density: 0.072 events/km²/day

(Calculation: 705 total lightnings / 314.2 km² area / 31 days in the month)

Daily Analysis:

This section shows lightning events organized by date and distance from turbines.

Higher counts in closer rings (1-2km) indicate elevated risk to turbine operations.

Date: 01-05-2024 (Total: 63 lightning events)

3.0-4.0km: 1 total (0 CG, 1 IC)

4.0-10.0km: 62 total (18 CG, 44 IC)

Date: 02-05-2024 (Total: 600 lightning events)

1.0-2.0km: 6 total (0 CG, 6 IC)

2.0-3.0km: 28 total (4 CG, 24 IC)

3.0-4.0km: 61 total (11 CG, 50 IC)

4.0-10.0km: 505 total (105 CG, 400 IC)

Date: 22-05-2024 (Total: 41 lightning events)

1.0-2.0km: 1 total (1 CG, 0 IC)

3.0-4.0km: 1 total (0 CG, 1 IC)

4.0-10.0km: 39 total (15 CG, 24 IC)

Date: 27-05-2024 (Total: 1 lightning events)

4.0-10.0km: 1 total (0 CG, 1 IC)

Frequent Lightning Activity Report

01-05-2024 - 31-05-2024

Lightning Activity Overview:

The chart below shows lightning activity patterns over time, helping identify high-risk periods and concentrated storm events. Peaks indicate intense lightning activity requiring attention. For detailed information go to the "Frequent Lightning Activity Period Detection Algorithm" section in the appendix.



Storm Cells Analysis Summary

01-05-2024 - 31-05-2024

Storm Cells Overview:

The following pages show storm cell boundaries organized by day during the analysis period.
Each cell represents a storm system with defined boundaries and storm severity levels.

Storm Cells Summary:

Total storm cells: 14

Severity breakdown:

- Low: 11 cells
- Medium: 3 cells

Average direction: 274.6°

Average speed: 26.1 km/h

Daily Storm Breakdown:

- 02-05-2024: 14 storm cells

Complete Storm Cells List:

No.	Severity	Effective Time	Expire Time
1	Low	02-05-2024 14:24	02-05-2024 15:09
2	Low	02-05-2024 14:37	02-05-2024 15:22
3	Low	02-05-2024 14:37	02-05-2024 15:22
4	Low	02-05-2024 14:37	02-05-2024 15:22
5	Medium	02-05-2024 18:03	02-05-2024 18:48
6	Medium	02-05-2024 18:03	02-05-2024 18:48
7	Medium	02-05-2024 18:03	02-05-2024 18:48
8	Low	02-05-2024 18:10	02-05-2024 18:55
9	Low	02-05-2024 18:10	02-05-2024 18:55
10	Low	02-05-2024 18:10	02-05-2024 18:55
11	Low	02-05-2024 18:25	02-05-2024 19:10
12	Low	02-05-2024 18:25	02-05-2024 19:10
13	Low	02-05-2024 18:25	02-05-2024 19:10
14	Low	02-05-2024 18:25	02-05-2024 19:10

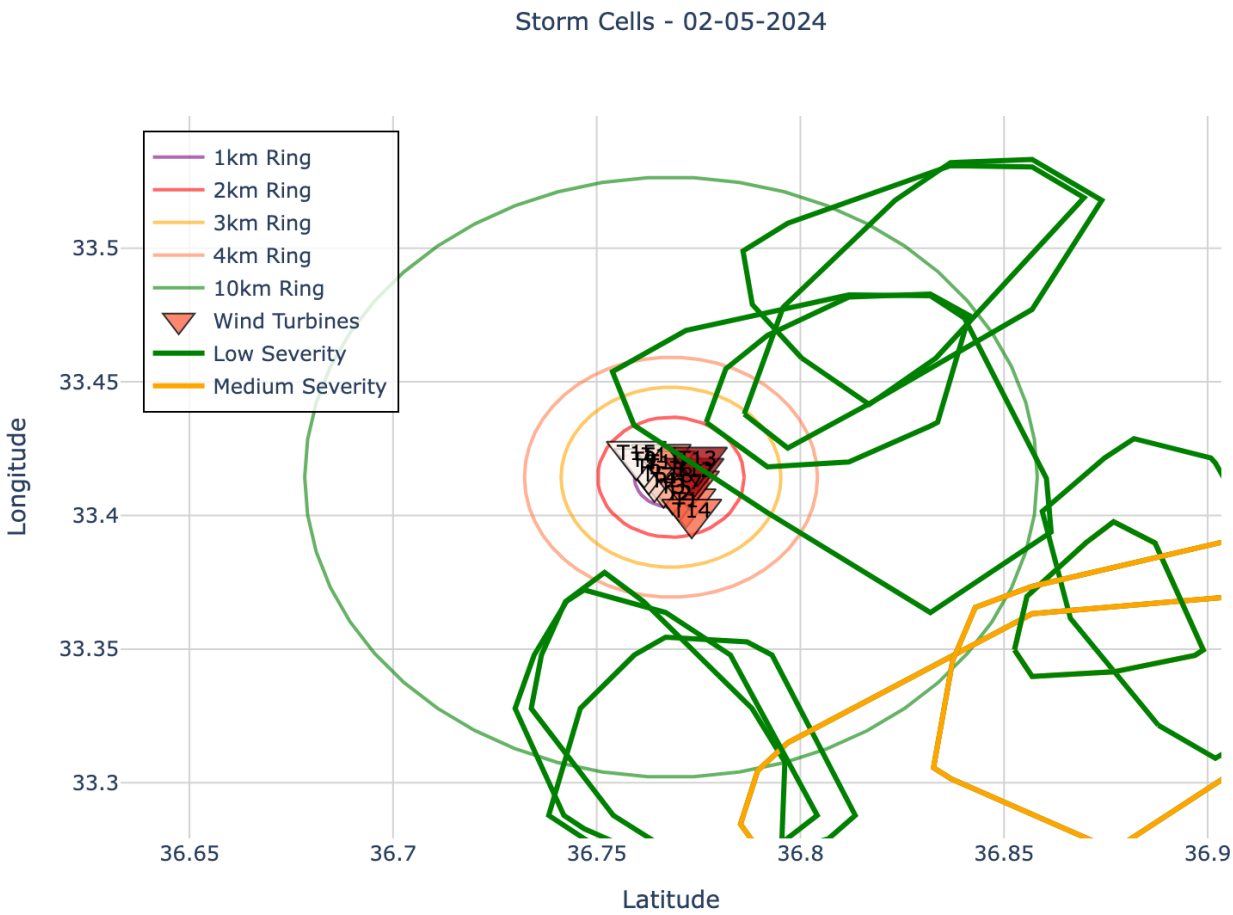
Storm Cells - 02-05-2024

Date: 02-05-2024

Number of storm cells: 14

Severity breakdown:

- Low: 11 cells
- Medium: 3 cells



Detailed Lightning Event Data:

The table below lists all lightning events affecting this turbine group, sorted by risk level (cloud-to-ground strikes first, then by proximity). Row colors indicate distance zones.

Table Interpretation:

- Row colors: Match distance ring colors - indicates proximity to turbines
- Proximity: Distance from turbine group centroid in kilometers
- Current: Lightning current magnitude in amperes
- Height: Lightning height above ground in meters
- Lightning Type: Cloud-to-ground = highest risk, Intercloud = lower risk

Lightning Types:

- Cloud-to-Ground: Direct strikes to ground - highest damage potential
- Intercloud: Lightning between clouds - lower direct risk to turbines

#	Time (UTC)	Lat	Lng	Current (amps)	Height (m)	Lightning Type	Proximity (km)
1	22-05-2024 14:43:10	36.76326	33.43023	-9824	0	cloud-to-ground	1.52
2	02-05-2024 14:46:10	36.78981	33.42468	-3927	0	cloud-to-ground	2.57
3	02-05-2024 14:53:51	36.74794	33.39821	-2531	0	cloud-to-ground	2.67
4	02-05-2024 18:21:41	36.79193	33.42422	-3231	0	cloud-to-ground	2.78
5	02-05-2024 14:55:29	36.75138	33.38911	-5115	0	cloud-to-ground	2.93
6	02-05-2024 18:27:08	36.79618	33.42849	-4301	0	cloud-to-ground	3.35
7	02-05-2024 15:00:49	36.73818	33.41729	-3135	0	cloud-to-ground	3.35
8	02-05-2024 14:13:12	36.79918	33.41492	-6240	0	cloud-to-ground	3.44
9	02-05-2024 14:53:51	36.74525	33.38840	-2558	0	cloud-to-ground	3.44
10	02-05-2024 18:20:11	36.80053	33.41353	26669	0	cloud-to-ground	3.59
11	02-05-2024 18:20:11	36.80068	33.40538	-7196	0	cloud-to-ground	3.69
12	02-05-2024 18:14:27	36.80092	33.40197	-3720	0	cloud-to-ground	3.80
13	02-05-2024 14:42:24	36.75127	33.37669	-5763	0	cloud-to-ground	3.85
14	02-05-2024 18:22:37	36.79284	33.44548	-3400	0	cloud-to-ground	3.90
15	02-05-2024 14:47:29	36.74791	33.37787	-5032	0	cloud-to-ground	3.96
16	02-05-2024 18:20:11	36.80402	33.41658	-6266	0	cloud-to-ground	3.98
17	02-05-2024 16:33:16	36.73979	33.38646	-6052	0	cloud-to-ground	4.02
18	02-05-2024 14:46:11	36.80331	33.42621	-7448	0	cloud-to-ground	4.04

#	Time (UTC)	Lat	Lng	Current (amps)	Height (m)	Lightning Type	Proximity (km)
19	02-05-2024 18:29:52	36.79799	33.44133	-4864	0	cloud-to-ground	4.09
20	02-05-2024 14:50:31	36.79519	33.44637	-1644	0	cloud-to-ground	4.14
21	02-05-2024 18:17:15	36.80570	33.42550	-3575	0	cloud-to-ground	4.28
22	02-05-2024 14:48:28	36.80032	33.44111	-3981	0	cloud-to-ground	4.29
23	02-05-2024 18:28:54	36.79553	33.45142	-4751	0	cloud-to-ground	4.49
24	02-05-2024 18:24:35	36.79875	33.44901	-4853	0	cloud-to-ground	4.59
25	02-05-2024 18:21:41	36.80998	33.41484	-4971	0	cloud-to-ground	4.64
26	22-05-2024 14:30:15	36.80463	33.44172	-7216	0	cloud-to-ground	4.73
27	02-05-2024 18:23:26	36.81204	33.41192	-3931	0	cloud-to-ground	4.87
28	22-05-2024 14:32:47	36.80923	33.43349	-5122	0	cloud-to-ground	4.87
29	02-05-2024 18:23:45	36.81161	33.42587	-4176	0	cloud-to-ground	4.93
30	22-05-2024 14:32:47	36.80930	33.43550	-4887	0	cloud-to-ground	4.94
31	02-05-2024 18:20:11	36.81260	33.41834	-5374	0	cloud-to-ground	4.95
32	02-05-2024 14:45:27	36.74945	33.36220	-3246	0	cloud-to-ground	5.09
33	02-05-2024 18:20:08	36.81028	33.43788	-3970	0	cloud-to-ground	5.12
34	02-05-2024 18:14:41	36.81392	33.40430	-3598	0	cloud-to-ground	5.16
35	02-05-2024 18:20:25	36.80931	33.44162	-7167	0	cloud-to-ground	5.17
36	02-05-2024 18:23:46	36.81503	33.41427	-4719	0	cloud-to-ground	5.20
37	02-05-2024 18:09:56	36.79852	33.36898	-17912	0	cloud-to-ground	5.26
38	02-05-2024 18:25:01	36.80829	33.44598	-4900	0	cloud-to-ground	5.27
39	02-05-2024 14:48:05	36.81102	33.44034	-3747	0	cloud-to-ground	5.29
40	02-05-2024 18:23:07	36.81303	33.43624	-4964	0	cloud-to-ground	5.35
41	02-05-2024 14:46:58	36.74961	33.35888	-3357	0	cloud-to-ground	5.36
42	01-05-2024 12:42:07	36.79283	33.46684	14689	0	cloud-to-ground	5.42
43	02-05-2024 18:27:53	36.75760	33.47374	-4628	0	cloud-to-ground	5.42
44	02-05-2024 14:36:48	36.80895	33.44843	-5509	0	cloud-to-ground	5.45
45	02-05-2024 18:28:34	36.80590	33.45350	-3604	0	cloud-to-ground	5.45
46	02-05-2024 14:49:19	36.80791	33.45258	-5689	0	cloud-to-ground	5.57
47	02-05-2024 14:49:19	36.80904	33.45103	-2968	0	cloud-to-ground	5.59
48	02-05-2024 16:32:28	36.73304	33.36802	-5733	0	cloud-to-ground	5.69
49	02-05-2024 18:24:04	36.81032	33.45195	-3115	0	cloud-to-ground	5.76
50	02-05-2024 18:15:00	36.81433	33.38236	-4932	0	cloud-to-ground	5.86
51	02-05-2024 18:23:45	36.82046	33.42380	-3803	0	cloud-to-ground	5.87
52	02-05-2024 14:52:20	36.81140	33.45332	-2876	0	cloud-to-ground	5.92
53	02-05-2024 18:12:37	36.78065	33.34908	-3753	0	cloud-to-ground	5.97
54	02-05-2024 18:21:51	36.81965	33.43658	-4281	0	cloud-to-ground	6.05
55	02-05-2024 18:12:26	36.78829	33.35006	-4016	0	cloud-to-ground	6.14
56	01-05-2024 12:52:35	36.82244	33.40041	-15168	0	cloud-to-ground	6.15

#	Time (UTC)	Lat	Lng	Current (amps)	Height (m)	Lightning Type	Proximity (km)
57	02-05-2024 18:22:57	36.82319	33.42321	-4470	0	cloud-to-ground	6.16
58	02-05-2024 18:23:33	36.82313	33.42590	-4474	0	cloud-to-ground	6.19
59	02-05-2024 14:36:48	36.82040	33.44132	-5090	0	cloud-to-ground	6.28
60	02-05-2024 18:23:57	36.82298	33.39641	-3448	0	cloud-to-ground	6.29
61	02-05-2024 14:37:32	36.79563	33.35192	-6211	0	cloud-to-ground	6.34
62	01-05-2024 12:57:36	36.78700	33.48188	-7648	0	cloud-to-ground	6.37
63	02-05-2024 18:32:47	36.78746	33.48194	-6061	0	cloud-to-ground	6.39
64	22-05-2024 14:11:42	36.79414	33.34970	-9527	0	cloud-to-ground	6.43
65	01-05-2024 12:55:47	36.82787	33.40621	-8104	0	cloud-to-ground	6.67
66	02-05-2024 18:30:33	36.81442	33.46321	-9313	0	cloud-to-ground	6.73
67	02-05-2024 14:43:28	36.76080	33.33896	-3207	0	cloud-to-ground	6.76
68	02-05-2024 14:36:18	36.82398	33.44478	-4296	0	cloud-to-ground	6.77
69	02-05-2024 14:50:58	36.81654	33.46167	-20868	0	cloud-to-ground	6.83
70	02-05-2024 14:21:55	36.82699	33.39087	-7068	0	cloud-to-ground	6.86
71	02-05-2024 14:40:18	36.82627	33.44123	-5815	0	cloud-to-ground	6.88
72	02-05-2024 18:13:48	36.74100	33.34444	-10269	0	cloud-to-ground	6.92
73	02-05-2024 18:36:28	36.78067	33.49040	-3466	0	cloud-to-ground	6.92
74	02-05-2024 14:39:06	36.75434	33.33688	-4725	0	cloud-to-ground	7.07
75	02-05-2024 14:37:37	36.83042	33.39743	42025	0	cloud-to-ground	7.08
76	02-05-2024 14:44:49	36.82267	33.45674	-3827	0	cloud-to-ground	7.13
77	02-05-2024 18:26:02	36.82937	33.44147	-4450	0	cloud-to-ground	7.21
78	02-05-2024 14:35:32	36.83308	33.41813	-3334	0	cloud-to-ground	7.22
79	02-05-2024 14:39:06	36.75437	33.33516	-9680	0	cloud-to-ground	7.22
80	02-05-2024 18:36:28	36.78136	33.49454	-3863	0	cloud-to-ground	7.29
81	02-05-2024 18:30:14	36.82725	33.45005	-9405	0	cloud-to-ground	7.29
82	22-05-2024 14:28:53	36.83333	33.42395	15104	0	cloud-to-ground	7.29
83	01-05-2024 13:08:45	36.83258	33.43166	-14009	0	cloud-to-ground	7.32
84	02-05-2024 18:31:30	36.81953	33.46736	-3291	0	cloud-to-ground	7.41
85	02-05-2024 14:17:24	36.82834	33.37559	-4183	0	cloud-to-ground	7.52
86	02-05-2024 18:22:51	36.82129	33.46672	-2404	0	cloud-to-ground	7.52
87	02-05-2024 18:31:52	36.81096	33.48025	-5852	0	cloud-to-ground	7.55
88	02-05-2024 18:31:23	36.82117	33.46766	-5023	0	cloud-to-ground	7.56
89	02-05-2024 18:35:39	36.77719	33.49902	-2577	0	cloud-to-ground	7.61
90	02-05-2024 18:30:38	36.81259	33.47999	-4258	0	cloud-to-ground	7.65
91	02-05-2024 14:38:47	36.78489	33.33069	-5372	0	cloud-to-ground	7.67
92	02-05-2024 14:42:24	36.75961	33.32858	-6768	0	cloud-to-ground	7.70
93	02-05-2024 14:38:04	36.77003	33.32708	-3751	0	cloud-to-ground	7.77
94	02-05-2024 18:36:47	36.77794	33.50099	-9324	0	cloud-to-ground	7.79

#	Time (UTC)	Lat	Lng	Current (amps)	Height (m)	Lightning Type	Proximity (km)
95	02-05-2024 18:35:51	36.73074	33.48838	-4437	0	cloud-to-ground	7.81
96	02-05-2024 14:35:59	36.81401	33.48098	-6051	0	cloud-to-ground	7.82
97	02-05-2024 14:40:00	36.74516	33.33095	-3365	0	cloud-to-ground	7.86
98	02-05-2024 14:42:24	36.75978	33.32614	-7312	0	cloud-to-ground	7.91
99	02-05-2024 14:27:11	36.83657	33.38893	-9723	0	cloud-to-ground	7.93
100	02-05-2024 18:36:47	36.77981	33.50215	-5893	0	cloud-to-ground	7.93
101	02-05-2024 18:31:52	36.82425	33.47004	-2886	0	cloud-to-ground	7.96
102	02-05-2024 18:14:44	36.81055	33.34211	-3805	0	cloud-to-ground	7.97
103	02-05-2024 14:40:43	36.83872	33.43145	-3703	0	cloud-to-ground	7.98
104	02-05-2024 14:42:24	36.76252	33.32474	-4012	0	cloud-to-ground	8.00
105	02-05-2024 14:42:24	36.76234	33.32462	-5054	0	cloud-to-ground	8.02
106	22-05-2024 14:43:11	36.82666	33.47057	-4090	0	cloud-to-ground	8.20
107	02-05-2024 18:23:26	36.83730	33.37949	-12704	0	cloud-to-ground	8.28
108	02-05-2024 18:14:41	36.83388	33.36991	-3043	0	cloud-to-ground	8.30
109	02-05-2024 18:23:26	36.83973	33.38717	-3424	0	cloud-to-ground	8.31
110	01-05-2024 12:59:01	36.84232	33.40123	-7162	0	cloud-to-ground	8.32
111	01-05-2024 13:01:35	36.84356	33.40861	-5178	0	cloud-to-ground	8.39
112	01-05-2024 13:29:52	36.83208	33.46523	-7511	0	cloud-to-ground	8.42
113	02-05-2024 18:23:46	36.84078	33.38662	-3306	0	cloud-to-ground	8.43
114	02-05-2024 18:35:39	36.79040	33.50557	-2581	0	cloud-to-ground	8.49
115	02-05-2024 14:12:14	36.81317	33.33690	-7939	0	cloud-to-ground	8.51
116	01-05-2024 13:05:49	36.84351	33.43209	-10874	0	cloud-to-ground	8.52
117	01-05-2024 12:41:01	36.84360	33.43200	15615	0	cloud-to-ground	8.53
118	02-05-2024 18:30:45	36.82995	33.47116	-6564	0	cloud-to-ground	8.53
119	01-05-2024 13:02:43	36.84583	33.41900	-6042	0	cloud-to-ground	8.64
120	02-05-2024 14:27:10	36.83943	33.37440	-6570	0	cloud-to-ground	8.68
121	02-05-2024 18:20:50	36.84661	33.40969	-6604	0	cloud-to-ground	8.72
122	01-05-2024 12:39:52	36.84569	33.43399	-6349	0	cloud-to-ground	8.79
123	02-05-2024 14:37:03	36.78171	33.31605	-4432	0	cloud-to-ground	8.88
124	02-05-2024 18:24:50	36.82980	33.47841	-5156	0	cloud-to-ground	8.91
125	02-05-2024 14:38:32	36.77405	33.31431	-3456	0	cloud-to-ground	8.93
126	01-05-2024 13:11:57	36.78661	33.51240	-6018	0	cloud-to-ground	8.97
127	22-05-2024 14:47:06	36.78310	33.51336	-12117	0	cloud-to-ground	8.97
128	22-05-2024 14:44:14	36.83607	33.46958	-4173	0	cloud-to-ground	9.01
129	02-05-2024 14:19:31	36.83990	33.36390	24526	0	cloud-to-ground	9.15
130	22-05-2024 14:32:00	36.85043	33.40546	-6489	0	cloud-to-ground	9.17
131	02-05-2024 14:49:20	36.84675	33.44662	-7670	0	cloud-to-ground	9.19
132	22-05-2024 14:25:14	36.84648	33.38022	-10471	0	cloud-to-ground	9.21

#	Time (UTC)	Lat	Lng	Current (amps)	Height (m)	Lightning Type	Proximity (km)
133	22-05-2024 14:47:06	36.78344	33.51613	-18853	0	cloud-to-ground	9.22
134	02-05-2024 16:27:30	36.73791	33.31760	-4354	0	cloud-to-ground	9.25
135	22-05-2024 14:32:01	36.85180	33.40758	-7543	0	cloud-to-ground	9.31
136	22-05-2024 14:44:14	36.82657	33.48945	-6065	0	cloud-to-ground	9.32
137	02-05-2024 18:12:54	36.82802	33.33956	-5635	0	cloud-to-ground	9.41
138	02-05-2024 14:02:55	36.81870	33.32831	-7036	0	cloud-to-ground	9.49
139	02-05-2024 14:36:37	36.79135	33.31123	-3023	0	cloud-to-ground	9.53
140	01-05-2024 13:06:43	36.85265	33.43327	-3902	0	cloud-to-ground	9.54
141	22-05-2024 14:47:06	36.78405	33.51985	-14403	0	cloud-to-ground	9.56
142	02-05-2024 18:36:47	36.76824	33.52208	-3730	0	cloud-to-ground	9.60
143	01-05-2024 13:06:36	36.84378	33.46774	-9408	0	cloud-to-ground	9.65
144	02-05-2024 18:19:38	36.85388	33.39593	-5187	0	cloud-to-ground	9.66
145	22-05-2024 14:47:06	36.78479	33.52078	-18732	0	cloud-to-ground	9.66
146	02-05-2024 14:45:38	36.76196	33.30586	-4355	0	cloud-to-ground	9.69
147	02-05-2024 18:24:25	36.85508	33.42524	-4291	0	cloud-to-ground	9.70
148	01-05-2024 13:08:44	36.85618	33.42382	-13498	0	cloud-to-ground	9.81
149	02-05-2024 14:45:38	36.76520	33.30396	-3597	0	cloud-to-ground	9.84
150	01-05-2024 13:17:58	36.83946	33.48086	-6977	0	cloud-to-ground	9.89
151	02-05-2024 18:10:08	36.84454	33.35700	23453	0	cloud-to-ground	9.90
152	02-05-2024 18:28:16	36.82289	33.50300	-5328	0	cloud-to-ground	9.96
153	01-05-2024 12:57:03	36.85737	33.40013	-4050	0	cloud-to-ground	9.99
154	02-05-2024 18:31:52	36.85769	33.42518	-7837	0	cloud-to-ground	9.99
155	02-05-2024 18:08:37	36.77825	33.41588	-2830	5687	intercloud	1.12
156	02-05-2024 18:21:05	36.77532	33.42905	3449	5982	intercloud	1.53
157	02-05-2024 14:44:49	36.77774	33.42677	-3396	6609	intercloud	1.53
158	02-05-2024 14:45:14	36.77220	33.39759	-1949	5928	intercloud	1.55
159	02-05-2024 14:56:21	36.75404	33.41325	-2314	6189	intercloud	1.58
160	02-05-2024 15:00:49	36.75066	33.41644	-3693	19270	intercloud	1.96
161	02-05-2024 14:21:55	36.78610	33.41796	-1735	4228	intercloud	2.01
162	02-05-2024 14:57:43	36.75022	33.41330	-1951	10669	intercloud	2.01
163	02-05-2024 18:22:08	36.78726	33.41624	-3794	5762	intercloud	2.12
164	02-05-2024 14:37:52	36.74794	33.41274	-3314	12149	intercloud	2.26
165	02-05-2024 14:56:21	36.75563	33.39444	-1981	5844	intercloud	2.26
166	02-05-2024 15:00:49	36.75352	33.43436	2793	19366	intercloud	2.42
167	02-05-2024 18:16:59	36.78933	33.42413	3599	3006	intercloud	2.50
168	02-05-2024 18:20:52	36.77720	33.44059	-3153	5041	intercloud	2.54
169	02-05-2024 14:57:01	36.75064	33.39557	-2973	19994	intercloud	2.57
170	02-05-2024 14:21:11	36.79189	33.41555	-2372	6816	intercloud	2.63

#	Time (UTC)	Lat	Lng	Current (amps)	Height (m)	Lightning Type	Proximity (km)
171	02-05-2024 14:46:10	36.77309	33.38537	-4251	14590	intercloud	2.63
172	02-05-2024 18:20:44	36.79074	33.40523	-3657	5052	intercloud	2.63
173	02-05-2024 18:19:04	36.79184	33.40978	3064	4000	intercloud	2.66
174	02-05-2024 18:22:09	36.78036	33.38758	4646	13890	intercloud	2.74
175	02-05-2024 14:37:52	36.76423	33.38386	3670	5781	intercloud	2.75
176	02-05-2024 18:24:35	36.77307	33.44472	-3317	15217	intercloud	2.76
177	02-05-2024 14:53:51	36.74898	33.39436	-1744	6481	intercloud	2.78
178	02-05-2024 18:22:05	36.78276	33.43986	-1919	16968	intercloud	2.79
179	02-05-2024 18:18:14	36.79345	33.42286	-4654	7443	intercloud	2.90
180	02-05-2024 14:49:19	36.79446	33.41181	-1843	3216	intercloud	2.92
181	02-05-2024 18:19:04	36.78095	33.38568	3536	4205	intercloud	2.92
182	02-05-2024 14:25:46	36.79375	33.40540	-5530	3000	intercloud	2.95
183	02-05-2024 14:34:49	36.77060	33.38117	-2293	7112	intercloud	2.96
184	02-05-2024 14:38:16	36.74980	33.38984	4751	9655	intercloud	2.99
185	02-05-2024 18:35:04	36.77317	33.44777	-1734	17373	intercloud	3.03
186	02-05-2024 14:51:36	36.74071	33.41313	-2317	10426	intercloud	3.06
187	02-05-2024 18:17:11	36.79107	33.39448	7407	7297	intercloud	3.09
188	02-05-2024 18:27:38	36.79022	33.43578	-2883	6174	intercloud	3.10
189	02-05-2024 18:21:55	36.77420	33.44868	2178	4211	intercloud	3.13
190	02-05-2024 18:19:39	36.77696	33.38067	2236	17155	intercloud	3.15
191	02-05-2024 18:29:00	36.79521	33.42833	4313	3040	intercloud	3.25
192	02-05-2024 14:48:56	36.74098	33.40091	3230	7738	intercloud	3.26
193	02-05-2024 14:37:53	36.74152	33.39906	-2286	6384	intercloud	3.27
194	02-05-2024 18:21:57	36.79488	33.43000	-2903	4010	intercloud	3.28
195	02-05-2024 18:27:38	36.79386	33.43281	-2604	7543	intercloud	3.29
196	02-05-2024 14:54:42	36.74861	33.38627	-2708	17048	intercloud	3.32
197	02-05-2024 16:35:27	36.73964	33.40297	-5035	11735	intercloud	3.34
198	02-05-2024 15:02:15	36.74459	33.43849	-1709	7145	intercloud	3.40
199	02-05-2024 18:22:01	36.79513	33.43263	-2864	6135	intercloud	3.41
200	02-05-2024 14:34:49	36.78737	33.38405	-2967	6307	intercloud	3.43
201	02-05-2024 18:27:23	36.79542	33.43256	-3377	18715	intercloud	3.43
202	02-05-2024 14:51:36	36.75125	33.38197	-2493	6277	intercloud	3.45
203	02-05-2024 14:45:44	36.74168	33.39416	-4807	19534	intercloud	3.46
204	02-05-2024 18:28:08	36.79492	33.43466	-2256	17874	intercloud	3.48
205	02-05-2024 14:20:19	36.79973	33.41350	1999	6354	intercloud	3.50
206	02-05-2024 14:53:51	36.73688	33.40842	-1954	6824	intercloud	3.53
207	02-05-2024 18:28:53	36.79732	33.43051	-1254	5590	intercloud	3.54
208	02-05-2024 18:21:25	36.76135	33.45317	-3731	3505	intercloud	3.54

#	Time (UTC)	Lat	Lng	Current (amps)	Height (m)	Lightning Type	Proximity (km)
209	02-05-2024 18:23:40	36.80002	33.41743	-2565	5187	intercloud	3.54
210	02-05-2024 15:02:15	36.74815	33.44526	2507	16813	intercloud	3.55
211	02-05-2024 18:27:16	36.78607	33.44744	1462	9994	intercloud	3.55
212	02-05-2024 18:28:24	36.79955	33.42236	-2327	6165	intercloud	3.55
213	02-05-2024 14:42:25	36.75233	33.37958	3162	17845	intercloud	3.56
214	02-05-2024 14:42:25	36.75263	33.37936	5151	19374	intercloud	3.57
215	02-05-2024 14:28:06	36.79582	33.43537	-1669	4556	intercloud	3.59
216	02-05-2024 18:22:55	36.77949	33.45212	-2435	6948	intercloud	3.59
217	02-05-2024 14:47:08	36.73845	33.39575	2213	17302	intercloud	3.70
218	02-05-2024 15:02:15	36.74111	33.43862	3500	17093	intercloud	3.71
219	02-05-2024 14:51:36	36.75083	33.37839	-3312	17632	intercloud	3.74
220	02-05-2024 18:18:49	36.78935	33.38160	4846	5769	intercloud	3.74
221	02-05-2024 18:21:25	36.77164	33.45637	2670	4406	intercloud	3.76
222	02-05-2024 14:20:40	36.80016	33.42857	2937	18263	intercloud	3.77
223	01-05-2024 12:46:37	36.79181	33.44543	-2654	10853	intercloud	3.81
224	02-05-2024 18:29:32	36.79857	33.43428	-2475	3501	intercloud	3.81
225	02-05-2024 18:17:35	36.79622	33.38950	5140	7332	intercloud	3.82
226	02-05-2024 18:34:39	36.78616	33.45100	1417	6200	intercloud	3.83
227	02-05-2024 18:28:02	36.80027	33.43109	-2392	16242	intercloud	3.86
228	02-05-2024 18:20:25	36.80242	33.42284	-3526	18972	intercloud	3.88
229	02-05-2024 18:22:33	36.80206	33.40342	-2690	18483	intercloud	3.88
230	02-05-2024 18:23:22	36.76383	33.45806	-3941	7230	intercloud	3.93
231	02-05-2024 18:17:56	36.79994	33.39448	-2854	7935	intercloud	3.94
232	22-05-2024 14:28:53	36.79771	33.43885	2554	4390	intercloud	3.94
233	02-05-2024 14:42:25	36.75288	33.37421	2994	16004	intercloud	3.96
234	02-05-2024 18:23:15	36.80098	33.39650	-3381	3363	intercloud	3.97
235	02-05-2024 18:23:57	36.80392	33.41625	-3270	19255	intercloud	3.97
236	02-05-2024 15:11:03	36.76860	33.45921	-2924	17618	intercloud	4.00
237	02-05-2024 18:18:02	36.80283	33.42694	-1911	6438	intercloud	4.01
238	01-05-2024 14:51:11	36.73335	33.42615	-14221	5368	intercloud	4.02
239	01-05-2024 12:44:53	36.77954	33.45736	-2961	8693	intercloud	4.03
240	02-05-2024 18:22:45	36.80380	33.40470	-3153	7871	intercloud	4.05
241	02-05-2024 18:28:54	36.79277	33.44815	-2640	7289	intercloud	4.06
242	02-05-2024 18:21:57	36.80080	33.43499	4181	6792	intercloud	4.06
243	02-05-2024 14:22:19	36.80215	33.43237	-2095	16569	intercloud	4.10
244	02-05-2024 16:35:27	36.73448	33.39452	-4084	7182	intercloud	4.15
245	02-05-2024 14:20:02	36.80557	33.41140	-2325	6373	intercloud	4.16
246	02-05-2024 15:11:26	36.74631	33.45227	-1931	7355	intercloud	4.17

#	Time (UTC)	Lat	Lng	Current (amps)	Height (m)	Lightning Type	Proximity (km)
247	01-05-2024 12:39:10	36.77297	33.46089	-2470	16581	intercloud	4.18
248	02-05-2024 14:48:28	36.79923	33.44123	-3760	19201	intercloud	4.20
249	02-05-2024 15:00:49	36.74100	33.38170	3732	18756	intercloud	4.20
250	02-05-2024 18:22:37	36.77281	33.46126	-2582	17324	intercloud	4.21
251	02-05-2024 14:48:56	36.74133	33.38050	-2852	18883	intercloud	4.25
252	02-05-2024 18:27:42	36.75078	33.45705	-3810	13943	intercloud	4.27
253	02-05-2024 18:21:22	36.80610	33.42310	-1910	16259	intercloud	4.28
254	01-05-2024 12:39:10	36.77918	33.46079	-3034	17142	intercloud	4.31
255	02-05-2024 14:33:14	36.79608	33.37996	4781	19633	intercloud	4.35
256	02-05-2024 18:17:11	36.79278	33.37563	-6625	5301	intercloud	4.39
257	02-05-2024 14:20:02	36.80794	33.41660	2567	8329	intercloud	4.42
258	02-05-2024 18:28:54	36.79515	33.45119	-2365	17098	intercloud	4.44
259	02-05-2024 18:23:22	36.78443	33.45988	-4312	6118	intercloud	4.44
260	02-05-2024 18:28:54	36.79664	33.44953	-1936	16440	intercloud	4.45
261	02-05-2024 18:27:00	36.78840	33.45801	-3095	7379	intercloud	4.49
262	02-05-2024 14:48:05	36.79760	33.44935	-1887	5028	intercloud	4.52
263	02-05-2024 18:22:45	36.80802	33.40402	-3739	7660	intercloud	4.52
264	02-05-2024 18:30:38	36.78840	33.45907	1580	17376	intercloud	4.57
265	02-05-2024 14:47:29	36.74958	33.36836	-2616	5551	intercloud	4.59
266	02-05-2024 18:14:07	36.80175	33.38394	2978	3943	intercloud	4.60
267	02-05-2024 18:23:53	36.79846	33.44966	-3468	6986	intercloud	4.60
268	02-05-2024 14:19:29	36.80815	33.39994	1387	17784	intercloud	4.62
269	02-05-2024 18:18:26	36.80951	33.42025	6128	6102	intercloud	4.62
270	02-05-2024 15:02:15	36.72840	33.42949	3642	7051	intercloud	4.63
271	02-05-2024 18:23:57	36.80921	33.40487	-2752	4975	intercloud	4.63
272	02-05-2024 18:29:52	36.80392	33.44144	4541	6377	intercloud	4.64
273	02-05-2024 18:23:49	36.80171	33.44547	-2975	17530	intercloud	4.64
274	02-05-2024 18:35:04	36.80381	33.44183	3254	17167	intercloud	4.65
275	02-05-2024 14:34:16	36.80954	33.42356	-3243	6628	intercloud	4.67
276	02-05-2024 18:24:04	36.80168	33.44665	-2832	13919	intercloud	4.70
277	02-05-2024 14:39:37	36.79641	33.37464	2136	7186	intercloud	4.72
278	02-05-2024 14:39:37	36.79869	33.37689	2190	17112	intercloud	4.75
279	02-05-2024 15:01:41	36.72583	33.42458	-3788	10375	intercloud	4.80
280	01-05-2024 12:41:37	36.80822	33.39369	4056	17590	intercloud	4.81
281	02-05-2024 14:29:52	36.79439	33.37108	3026	3259	intercloud	4.82
282	02-05-2024 18:17:01	36.81163	33.41844	-3937	9058	intercloud	4.84
283	02-05-2024 18:24:38	36.81117	33.42305	-4353	19775	intercloud	4.84
284	02-05-2024 18:23:49	36.76895	33.46884	1509	15418	intercloud	4.86

#	Time (UTC)	Lat	Lng	Current (amps)	Height (m)	Lightning Type	Proximity (km)
285	02-05-2024 14:44:19	36.74949	33.36497	-2834	7168	intercloud	4.87
286	02-05-2024 14:49:54	36.80257	33.44844	-2667	9285	intercloud	4.88
287	02-05-2024 18:17:15	36.78970	33.36597	3548	3000	intercloud	4.92
288	02-05-2024 14:46:26	36.75107	33.36319	-3278	6083	intercloud	4.94
289	02-05-2024 18:15:06	36.78737	33.36424	-5664	7447	intercloud	4.94
290	02-05-2024 18:23:15	36.81036	33.43203	3613	4501	intercloud	4.94
291	02-05-2024 18:37:24	36.78379	33.46658	5511	17384	intercloud	4.97
292	02-05-2024 18:29:52	36.80689	33.44225	2994	6093	intercloud	4.97
293	02-05-2024 14:18:13	36.80969	33.39308	-4495	6675	intercloud	4.98
294	02-05-2024 16:34:00	36.73428	33.37785	-5364	4138	intercloud	4.98
295	02-05-2024 18:17:15	36.78728	33.36331	4815	7131	intercloud	5.01
296	02-05-2024 18:22:33	36.81316	33.42173	-3362	14472	intercloud	5.04
297	02-05-2024 18:23:49	36.79837	33.45660	-1652	19590	intercloud	5.04
298	02-05-2024 18:32:06	36.79253	33.46225	-7831	7173	intercloud	5.05
299	02-05-2024 14:45:44	36.80896	33.44018	3066	7371	intercloud	5.08
300	02-05-2024 18:36:28	36.77921	33.46997	1531	15765	intercloud	5.10
301	02-05-2024 14:45:43	36.76926	33.35687	2477	15855	intercloud	5.12
302	02-05-2024 18:23:49	36.77530	33.47120	1792	18759	intercloud	5.13
303	02-05-2024 18:26:47	36.80937	33.44086	-4343	7043	intercloud	5.15
304	02-05-2024 14:46:26	36.74521	33.36386	-3077	8804	intercloud	5.17
305	02-05-2024 18:34:39	36.80904	33.44209	-1748	19648	intercloud	5.17
306	02-05-2024 14:24:29	36.81407	33.40203	1748	18113	intercloud	5.21
307	02-05-2024 18:24:05	36.81429	33.42532	-2327	15968	intercloud	5.21
308	02-05-2024 14:22:19	36.81338	33.39763	-2238	16412	intercloud	5.23
309	02-05-2024 14:18:15	36.80981	33.44224	-5248	10858	intercloud	5.25
310	02-05-2024 18:31:39	36.80761	33.44735	-2597	17125	intercloud	5.27
311	02-05-2024 15:13:11	36.74771	33.46786	-1710	16471	intercloud	5.29
312	02-05-2024 15:11:02	36.73702	33.45925	4550	17726	intercloud	5.30
313	02-05-2024 14:26:59	36.81493	33.40170	-2218	5452	intercloud	5.31
314	02-05-2024 14:46:26	36.74536	33.36149	-2877	8823	intercloud	5.35
315	02-05-2024 18:19:04	36.81485	33.39930	-3374	7360	intercloud	5.35
316	02-05-2024 14:48:28	36.81286	33.43720	2931	9534	intercloud	5.36
317	02-05-2024 18:30:57	36.80601	33.45193	-2923	18347	intercloud	5.37
318	02-05-2024 14:36:18	36.81151	33.44138	-3491	4075	intercloud	5.38
319	02-05-2024 18:19:04	36.81626	33.42188	-4364	7386	intercloud	5.38
320	02-05-2024 18:15:00	36.81385	33.39396	-3224	5324	intercloud	5.39
321	02-05-2024 15:10:25	36.74701	33.46880	-1944	5767	intercloud	5.40
322	02-05-2024 18:25:16	36.80761	33.44976	-2608	16948	intercloud	5.40

#	Time (UTC)	Lat	Lng	Current (amps)	Height (m)	Lightning Type	Proximity (km)
323	02-05-2024 18:36:28	36.80635	33.45227	-1828	6277	intercloud	5.42
324	02-05-2024 18:22:37	36.79657	33.46378	1954	17613	intercloud	5.42
325	02-05-2024 14:43:15	36.81530	33.43160	2192	6494	intercloud	5.45
326	02-05-2024 18:27:26	36.77505	33.47544	-4941	3002	intercloud	5.50
327	02-05-2024 14:43:45	36.76425	33.35247	-2259	18281	intercloud	5.53
328	02-05-2024 18:30:57	36.80764	33.45222	-2431	17057	intercloud	5.53
329	02-05-2024 14:16:26	36.81427	33.39061	-2407	8267	intercloud	5.54
330	02-05-2024 18:30:06	36.80895	33.45039	-2353	5437	intercloud	5.55
331	02-05-2024 14:23:11	36.81821	33.41202	2461	6088	intercloud	5.56
332	01-05-2024 12:55:45	36.80669	33.45498	-3583	16773	intercloud	5.60
333	02-05-2024 18:23:26	36.81822	33.42318	-2032	15950	intercloud	5.61
334	02-05-2024 18:35:04	36.79078	33.47080	2048	17877	intercloud	5.62
335	02-05-2024 14:46:10	36.81764	33.42867	3622	8567	intercloud	5.64
336	02-05-2024 18:24:42	36.78436	33.47486	2993	5910	intercloud	5.68
337	02-05-2024 18:24:44	36.80773	33.45476	-1751	8431	intercloud	5.68
338	02-05-2024 14:42:46	36.75324	33.35323	-4484	10043	intercloud	5.69
339	02-05-2024 14:25:58	36.80633	33.37152	2210	13853	intercloud	5.70
340	02-05-2024 14:42:46	36.76334	33.34998	-2826	6824	intercloud	5.76
341	02-05-2024 14:39:37	36.82039	33.41827	-1463	17298	intercloud	5.81
342	02-05-2024 18:26:24	36.81577	33.44135	2498	6852	intercloud	5.81
343	02-05-2024 14:24:29	36.81849	33.39546	-1876	16530	intercloud	5.83
344	02-05-2024 14:37:13	36.82052	33.41939	5681	7835	intercloud	5.83
345	02-05-2024 14:40:43	36.80022	33.36246	2485	6185	intercloud	5.83
346	02-05-2024 15:11:02	36.73471	33.46455	5784	12412	intercloud	5.83
347	02-05-2024 14:43:46	36.76028	33.34939	-2458	6235	intercloud	5.85
348	02-05-2024 14:43:46	36.75705	33.35008	-1420	8265	intercloud	5.86
349	02-05-2024 18:22:09	36.82090	33.41213	-3783	4206	intercloud	5.86
350	02-05-2024 18:30:57	36.81393	33.44744	-1527	13967	intercloud	5.87
351	02-05-2024 18:37:24	36.76195	33.47981	-2303	16893	intercloud	5.88
352	02-05-2024 18:24:05	36.81969	33.42957	-2714	6490	intercloud	5.88
353	02-05-2024 14:19:10	36.81403	33.38071	-2258	19856	intercloud	5.91
354	02-05-2024 14:46:49	36.80958	33.45607	5122	3648	intercloud	5.91
355	01-05-2024 09:16:55	36.81522	33.38315	2936	4366	intercloud	5.92
356	02-05-2024 14:50:18	36.81283	33.45100	-2566	16529	intercloud	5.94
357	02-05-2024 14:10:28	36.81980	33.39570	-1837	17054	intercloud	5.97
358	02-05-2024 18:15:58	36.79274	33.35468	2677	5868	intercloud	5.97
359	02-05-2024 14:38:57	36.77778	33.34791	-6677	4614	intercloud	6.01
360	02-05-2024 14:42:24	36.76149	33.34724	2964	17540	intercloud	6.02

#	Time (UTC)	Lat	Lng	Current (amps)	Height (m)	Lightning Type	Proximity (km)
361	02-05-2024 18:23:45	36.82165	33.42515	-3368	5965	intercloud	6.02
362	02-05-2024 14:28:59	36.82180	33.40243	4578	9280	intercloud	6.05
363	02-05-2024 14:39:36	36.76060	33.34705	-5950	12420	intercloud	6.05
364	02-05-2024 18:14:22	36.82236	33.40744	-2350	3526	intercloud	6.05
365	02-05-2024 18:23:36	36.81725	33.44431	3602	10415	intercloud	6.07
366	02-05-2024 14:44:19	36.73864	33.35691	2289	7012	intercloud	6.08
367	02-05-2024 18:31:39	36.81611	33.44729	-2113	5801	intercloud	6.08
368	02-05-2024 14:21:55	36.81420	33.37718	-1691	5645	intercloud	6.09
369	02-05-2024 14:36:18	36.81820	33.44236	-2856	4594	intercloud	6.09
370	02-05-2024 15:11:03	36.76316	33.48246	-2227	17522	intercloud	6.10
371	02-05-2024 18:24:14	36.81908	33.44002	-3527	12908	intercloud	6.10
372	02-05-2024 18:25:16	36.82271	33.42344	-2107	6363	intercloud	6.11
373	02-05-2024 14:23:11	36.82330	33.40845	2024	6583	intercloud	6.14
374	02-05-2024 14:50:46	36.81406	33.45285	-2204	6436	intercloud	6.14
375	01-05-2024 10:53:25	36.79489	33.47524	-6876	10414	intercloud	6.18
376	02-05-2024 14:18:54	36.82238	33.43002	1437	16241	intercloud	6.18
377	02-05-2024 18:15:55	36.82109	33.39241	2486	6281	intercloud	6.19
378	02-05-2024 14:39:37	36.78698	33.34872	1231	19452	intercloud	6.20
379	02-05-2024 14:39:56	36.82392	33.40961	-2601	7392	intercloud	6.21
380	02-05-2024 18:20:44	36.82359	33.42390	-2758	5375	intercloud	6.21
381	02-05-2024 18:24:23	36.81578	33.45097	-2015	18193	intercloud	6.21
382	02-05-2024 16:32:28	36.72284	33.37356	-5227	11967	intercloud	6.22
383	02-05-2024 14:39:55	36.82443	33.41901	-2171	15403	intercloud	6.26
384	02-05-2024 18:23:26	36.81155	33.45919	-2000	17825	intercloud	6.26
385	22-05-2024 14:14:51	36.81067	33.36780	-3712	5458	intercloud	6.28
386	02-05-2024 14:10:28	36.82139	33.39014	-1662	10435	intercloud	6.29
387	02-05-2024 18:23:57	36.82081	33.38778	-2556	3398	intercloud	6.30
388	01-05-2024 12:54:13	36.78886	33.48039	5606	18285	intercloud	6.32
389	02-05-2024 18:28:47	36.76672	33.48521	2484	5012	intercloud	6.32
390	02-05-2024 18:12:57	36.79571	33.35188	-4234	4957	intercloud	6.34
391	02-05-2024 18:12:07	36.79418	33.35061	-2900	17469	intercloud	6.36
392	02-05-2024 14:36:06	36.82423	33.42988	-2654	18840	intercloud	6.38
393	01-05-2024 12:55:45	36.75853	33.48497	-6373	6471	intercloud	6.39
394	02-05-2024 14:34:58	36.82192	33.44001	-2158	6282	intercloud	6.39
395	02-05-2024 18:22:57	36.82345	33.43455	-3834	7149	intercloud	6.40
396	02-05-2024 14:17:46	36.82228	33.38836	-2768	6054	intercloud	6.44
397	02-05-2024 14:36:18	36.82372	33.43532	1738	6564	intercloud	6.45
398	01-05-2024 11:08:04	36.79501	33.47874	-4988	3007	intercloud	6.46

#	Time (UTC)	Lat	Lng	Current (amps)	Height (m)	Lightning Type	Proximity (km)
399	02-05-2024 14:30:50	36.81916	33.44913	1705	15657	intercloud	6.46
400	02-05-2024 18:11:10	36.78949	33.34682	-2947	16856	intercloud	6.46
401	02-05-2024 18:12:37	36.79046	33.34725	-4766	16330	intercloud	6.46
402	02-05-2024 14:40:08	36.75316	33.34420	2358	4455	intercloud	6.47
403	02-05-2024 18:28:00	36.80671	33.46880	-2120	16406	intercloud	6.47
404	02-05-2024 14:35:12	36.82662	33.41549	-1671	6156	intercloud	6.49
405	02-05-2024 14:43:28	36.76682	33.34153	-2934	13812	intercloud	6.49
406	02-05-2024 18:14:03	36.81418	33.36913	-1653	7500	intercloud	6.50
407	02-05-2024 15:14:56	36.72666	33.46573	1800	6306	intercloud	6.51
408	02-05-2024 14:36:54	36.82681	33.40981	-3762	6305	intercloud	6.52
409	02-05-2024 18:25:43	36.81470	33.45893	-4717	6334	intercloud	6.52
410	02-05-2024 14:49:13	36.74845	33.34527	-2331	6364	intercloud	6.53
411	02-05-2024 14:43:28	36.75896	33.34176	-2496	7524	intercloud	6.55
412	01-05-2024 12:41:01	36.82589	33.43114	-20414	15866	intercloud	6.58
413	02-05-2024 14:21:55	36.82331	33.38682	-1622	15865	intercloud	6.59
414	02-05-2024 14:43:14	36.76623	33.34039	2180	6460	intercloud	6.59
415	02-05-2024 14:36:10	36.80825	33.35957	-2806	9537	intercloud	6.60
416	02-05-2024 18:31:30	36.82057	33.44994	-3392	7335	intercloud	6.63
417	02-05-2024 14:18:15	36.82583	33.39288	-2292	5918	intercloud	6.68
418	02-05-2024 18:30:57	36.82062	33.45114	2434	15628	intercloud	6.68
419	02-05-2024 14:45:55	36.73834	33.34916	-2958	10153	intercloud	6.69
420	02-05-2024 14:30:48	36.82777	33.40290	-2349	6099	intercloud	6.70
421	02-05-2024 14:04:13	36.81490	33.36650	-2222	18513	intercloud	6.71
422	02-05-2024 14:44:13	36.82527	33.38955	-2608	13004	intercloud	6.71
423	02-05-2024 14:44:37	36.75440	33.34077	-1441	8685	intercloud	6.73
424	02-05-2024 14:46:49	36.81645	33.46054	-2247	7021	intercloud	6.76
425	02-05-2024 14:37:25	36.82737	33.43241	5612	17697	intercloud	6.77
426	02-05-2024 18:24:44	36.81291	33.46596	-3027	17897	intercloud	6.77
427	02-05-2024 14:38:57	36.77691	33.33897	-2335	5318	intercloud	6.78
428	01-05-2024 12:55:07	36.82851	33.40217	-3147	18672	intercloud	6.79
429	02-05-2024 14:52:20	36.81847	33.45762	7899	17346	intercloud	6.79
430	02-05-2024 18:27:42	36.82712	33.43513	-3359	5972	intercloud	6.80
431	02-05-2024 14:41:57	36.76666	33.33782	2949	6520	intercloud	6.82
432	02-05-2024 14:31:21	36.82944	33.42108	2610	6153	intercloud	6.83
433	02-05-2024 14:45:23	36.82378	33.44708	-1934	6018	intercloud	6.83
434	02-05-2024 14:42:24	36.74173	33.34501	-2140	17254	intercloud	6.84
435	02-05-2024 18:13:35	36.79870	33.34758	-3892	6424	intercloud	6.84
436	02-05-2024 18:34:39	36.79390	33.48412	-2112	16947	intercloud	6.84

#	Time (UTC)	Lat	Lng	Current (amps)	Height (m)	Lightning Type	Proximity (km)
437	02-05-2024 14:38:16	36.77947	33.33866	-3335	5727	intercloud	6.85
438	22-05-2024 14:39:20	36.78001	33.48992	5019	17192	intercloud	6.86
439	02-05-2024 14:21:55	36.82414	33.38140	-1599	16305	intercloud	6.87
440	02-05-2024 14:44:49	36.82012	33.45649	-3853	6576	intercloud	6.88
441	02-05-2024 18:23:58	36.82913	33.39984	-3368	5488	intercloud	6.89
442	02-05-2024 14:24:11	36.81967	33.37087	-11466	14899	intercloud	6.90
443	02-05-2024 18:15:31	36.83034	33.41192	-3181	4994	intercloud	6.91
444	02-05-2024 14:37:50	36.82359	33.44992	1956	6234	intercloud	6.92
445	22-05-2024 14:40:49	36.81978	33.45790	-5512	19255	intercloud	6.92
446	02-05-2024 14:19:10	36.80257	33.34916	1241	4918	intercloud	6.95
447	02-05-2024 14:40:39	36.82578	33.44492	-2406	9012	intercloud	6.95
448	02-05-2024 14:46:27	36.72778	33.47376	-2974	6810	intercloud	6.95
449	02-05-2024 16:29:59	36.70945	33.38643	-3295	5810	intercloud	6.99
450	02-05-2024 14:31:33	36.83104	33.42027	-1904	5485	intercloud	7.00
451	02-05-2024 18:30:14	36.80625	33.47698	-4974	3003	intercloud	7.00
452	02-05-2024 14:39:06	36.75682	33.33653	-3358	17191	intercloud	7.04
453	02-05-2024 14:26:44	36.81974	33.36789	2239	16064	intercloud	7.06
454	02-05-2024 18:34:39	36.82548	33.44897	-3033	16516	intercloud	7.07
455	02-05-2024 15:11:02	36.72753	33.47544	2988	7392	intercloud	7.08
456	02-05-2024 18:30:06	36.82577	33.44839	-3589	14098	intercloud	7.08
457	02-05-2024 14:40:52	36.82907	33.43833	-3120	11941	intercloud	7.09
458	02-05-2024 14:41:10	36.76408	33.33473	-4888	18665	intercloud	7.10
459	02-05-2024 18:32:39	36.81736	33.46532	-3967	3915	intercloud	7.10
460	02-05-2024 14:44:16	36.75857	33.33546	-3801	6013	intercloud	7.11
461	01-05-2024 13:05:33	36.80457	33.48012	-3528	17895	intercloud	7.12
462	02-05-2024 18:33:11	36.76438	33.49425	-3183	6366	intercloud	7.13
463	01-05-2024 13:06:35	36.79746	33.48576	-5631	4737	intercloud	7.14
464	02-05-2024 18:36:47	36.78270	33.49240	-2753	19173	intercloud	7.14
465	02-05-2024 14:15:25	36.83238	33.40525	-2275	19549	intercloud	7.18
466	02-05-2024 14:22:19	36.83185	33.40061	3603	7613	intercloud	7.18
467	01-05-2024 10:57:44	36.79142	33.48970	-7735	4810	intercloud	7.19
468	02-05-2024 14:45:54	36.75368	33.33568	-3783	6147	intercloud	7.19
469	02-05-2024 18:34:39	36.76871	33.49519	-2038	19385	intercloud	7.20
470	02-05-2024 14:28:33	36.82896	33.38517	-2484	13257	intercloud	7.23
471	02-05-2024 14:45:27	36.75144	33.33595	-2292	4623	intercloud	7.23
472	02-05-2024 14:38:25	36.78217	33.33484	-2780	13177	intercloud	7.25
473	02-05-2024 14:44:49	36.82297	33.45880	-3296	6116	intercloud	7.26
474	02-05-2024 14:45:01	36.75066	33.33575	-2879	6362	intercloud	7.27

#	Time (UTC)	Lat	Lng	Current (amps)	Height (m)	Lightning Type	Proximity (km)
475	02-05-2024 18:21:50	36.82989	33.44175	-3358	7217	intercloud	7.28
476	02-05-2024 18:25:07	36.80535	33.48181	2688	5791	intercloud	7.29
477	02-05-2024 14:38:14	36.83335	33.42511	4823	6672	intercloud	7.30
478	02-05-2024 14:40:45	36.76654	33.33232	-2861	17982	intercloud	7.31
479	02-05-2024 14:33:39	36.83391	33.41847	-1786	19058	intercloud	7.31
480	02-05-2024 18:33:39	36.79909	33.48689	-6217	5830	intercloud	7.32
481	02-05-2024 18:35:04	36.79397	33.49004	-1634	15158	intercloud	7.33
482	02-05-2024 14:39:08	36.83255	33.43300	-1363	16719	intercloud	7.34
483	02-05-2024 14:10:28	36.82897	33.38131	-1394	16156	intercloud	7.36
484	02-05-2024 14:38:22	36.76926	33.33167	1751	6430	intercloud	7.36
485	02-05-2024 18:23:21	36.83363	33.42717	4730	4647	intercloud	7.36
486	02-05-2024 14:01:06	36.82748	33.37684	3732	3011	intercloud	7.38
487	02-05-2024 14:40:33	36.74124	33.33848	-3642	17433	intercloud	7.39
488	02-05-2024 14:41:54	36.83478	33.41691	5618	3015	intercloud	7.40
489	02-05-2024 14:09:07	36.82800	33.37759	-1735	15119	intercloud	7.41
490	02-05-2024 14:29:28	36.82589	33.37246	2174	13037	intercloud	7.41
491	02-05-2024 14:33:39	36.83496	33.41307	-1440	16739	intercloud	7.42
492	02-05-2024 14:44:37	36.74987	33.33414	-1949	6022	intercloud	7.43
493	02-05-2024 14:45:27	36.73693	33.34047	-2239	10678	intercloud	7.44
494	02-05-2024 14:49:13	36.73865	33.33947	-2691	7474	intercloud	7.44
495	02-05-2024 18:35:04	36.79409	33.49151	-2027	3010	intercloud	7.45
496	02-05-2024 18:35:04	36.79402	33.49158	-1998	17168	intercloud	7.45
497	02-05-2024 14:40:05	36.83348	33.43449	-1565	6396	intercloud	7.47
498	02-05-2024 14:12:05	36.82690	33.37328	-2280	6221	intercloud	7.48
499	02-05-2024 14:16:45	36.83329	33.39272	3078	11309	intercloud	7.48
500	02-05-2024 18:35:04	36.79399	33.49205	-2057	17851	intercloud	7.49
501	02-05-2024 14:46:05	36.74638	33.33471	-1443	11618	intercloud	7.50
502	02-05-2024 14:37:37	36.83449	33.43172	-3724	5710	intercloud	7.53
503	02-05-2024 18:22:21	36.83590	33.41198	-1659	4034	intercloud	7.53
504	02-05-2024 14:09:06	36.82030	33.35974	-2324	6945	intercloud	7.56
505	02-05-2024 14:40:12	36.83326	33.43900	-1577	9242	intercloud	7.56
506	02-05-2024 14:27:54	36.83313	33.38771	-2394	6533	intercloud	7.59
507	02-05-2024 14:39:19	36.76775	33.32884	-6129	18705	intercloud	7.61
508	02-05-2024 14:15:25	36.83002	33.37726	-2376	5902	intercloud	7.62
509	02-05-2024 18:23:57	36.83500	33.39492	-2406	19777	intercloud	7.62
510	02-05-2024 14:10:28	36.83568	33.39796	1355	7323	intercloud	7.64
511	02-05-2024 14:41:00	36.77435	33.32886	-3910	6368	intercloud	7.64
512	02-05-2024 14:39:37	36.83540	33.43227	-2133	6822	intercloud	7.64

#	Time (UTC)	Lat	Lng	Current (amps)	Height (m)	Lightning Type	Proximity (km)
513	02-05-2024 14:36:32	36.83674	33.42072	-1810	17292	intercloud	7.64
514	02-05-2024 18:29:12	36.82257	33.46709	5259	7589	intercloud	7.65
515	02-05-2024 14:10:40	36.82382	33.36336	-1527	12700	intercloud	7.67
516	02-05-2024 14:16:03	36.82452	33.36436	2505	4689	intercloud	7.68
517	02-05-2024 14:31:02	36.80836	33.34386	-4165	14509	intercloud	7.70
518	01-05-2024 12:58:24	36.83530	33.43630	4284	6254	intercloud	7.71
519	02-05-2024 18:30:52	36.82003	33.47185	-2473	17694	intercloud	7.71
520	02-05-2024 14:27:54	36.83432	33.38785	-3191	6361	intercloud	7.72
521	02-05-2024 14:36:10	36.83694	33.40153	-4802	17284	intercloud	7.72
522	02-05-2024 14:37:15	36.83594	33.43415	-2645	11191	intercloud	7.73
523	02-05-2024 18:15:28	36.81555	33.35065	2451	4418	intercloud	7.73
524	02-05-2024 14:50:57	36.82371	33.36190	2468	6029	intercloud	7.73
525	02-05-2024 14:45:23	36.83707	33.42749	-3169	15299	intercloud	7.74
526	02-05-2024 18:32:26	36.81719	33.47615	1336	13584	intercloud	7.74
527	02-05-2024 14:41:00	36.77532	33.32762	-4454	6274	intercloud	7.76
528	02-05-2024 14:09:06	36.82003	33.35569	2288	16980	intercloud	7.77
529	02-05-2024 14:40:00	36.74268	33.33318	-5026	5258	intercloud	7.77
530	02-05-2024 18:34:08	36.80743	33.48668	-5904	19338	intercloud	7.78
531	02-05-2024 14:42:40	36.75949	33.32740	-2818	8565	intercloud	7.80
532	02-05-2024 18:22:46	36.82864	33.45877	-3036	8979	intercloud	7.80
533	22-05-2024 14:24:08	36.83834	33.41630	-5841	4582	intercloud	7.80
534	02-05-2024 14:39:58	36.83105	33.45368	-3154	4164	intercloud	7.81
535	02-05-2024 18:35:04	36.80372	33.49017	-2222	17071	intercloud	7.82
536	02-05-2024 14:38:10	36.76201	33.32680	-2934	6005	intercloud	7.83
537	02-05-2024 18:35:04	36.82426	33.46751	-1930	16153	intercloud	7.83
538	02-05-2024 14:33:39	36.83777	33.39909	-1645	6575	intercloud	7.85
539	02-05-2024 14:46:05	36.74330	33.33183	-1697	5616	intercloud	7.85
540	01-05-2024 12:39:10	36.76120	33.50210	3607	5177	intercloud	7.86
541	02-05-2024 14:31:55	36.83834	33.40274	-2690	6343	intercloud	7.86
542	02-05-2024 18:19:51	36.83807	33.42773	-2957	6256	intercloud	7.86
543	22-05-2024 14:30:15	36.83891	33.41995	-2776	5348	intercloud	7.87
544	02-05-2024 14:42:53	36.76369	33.32597	-3341	5750	intercloud	7.89
545	22-05-2024 14:13:23	36.81931	33.35278	-1494	17319	intercloud	7.89
546	02-05-2024 14:19:48	36.82878	33.36788	2928	6863	intercloud	7.90
547	02-05-2024 18:24:35	36.82875	33.46078	-4303	19339	intercloud	7.90
548	01-05-2024 13:00:17	36.83930	33.40934	-5240	5953	intercloud	7.91
549	02-05-2024 14:41:42	36.83149	33.45493	-3427	17310	intercloud	7.91
550	02-05-2024 14:52:20	36.83703	33.43692	1843	16814	intercloud	7.91

#	Time (UTC)	Lat	Lng	Current (amps)	Height (m)	Lightning Type	Proximity (km)
551	02-05-2024 18:26:57	36.83575	33.44251	-3658	5527	intercloud	7.92
552	02-05-2024 14:47:26	36.81916	33.47676	-1651	3732	intercloud	7.94
553	02-05-2024 14:43:14	36.83508	33.44569	-2849	5968	intercloud	7.94
554	02-05-2024 14:12:32	36.81392	33.34560	-2357	17199	intercloud	7.95
555	02-05-2024 14:14:52	36.82033	33.35303	-1477	14971	intercloud	7.96
556	02-05-2024 14:25:45	36.83529	33.38271	-5346	5423	intercloud	7.97
557	02-05-2024 15:14:04	36.72009	33.48086	-4141	4333	intercloud	7.99
558	02-05-2024 14:40:43	36.83913	33.42993	-3449	12138	intercloud	8.00
559	02-05-2024 14:17:17	36.83759	33.39007	-2869	5975	intercloud	8.01
560	02-05-2024 14:37:15	36.83767	33.43812	-1860	9132	intercloud	8.01
561	02-05-2024 14:42:24	36.76221	33.32476	-2734	16772	intercloud	8.01
562	02-05-2024 14:45:23	36.83268	33.45493	-1640	4851	intercloud	8.03
563	02-05-2024 14:32:16	36.84053	33.41170	2157	6296	intercloud	8.04
564	02-05-2024 14:11:25	36.83166	33.37044	-1957	4940	intercloud	8.06
565	22-05-2024 14:32:47	36.84068	33.40988	-2512	19988	intercloud	8.06
566	01-05-2024 12:59:30	36.77491	33.50454	-2936	18292	intercloud	8.07
567	02-05-2024 14:41:57	36.77613	33.32430	-2921	10506	intercloud	8.07
568	02-05-2024 14:42:46	36.75578	33.32491	5756	3123	intercloud	8.08
569	02-05-2024 18:31:52	36.82766	33.46683	-3728	7133	intercloud	8.09
570	02-05-2024 14:36:53	36.77151	33.32349	-2304	5881	intercloud	8.10
571	02-05-2024 14:40:32	36.83852	33.43826	1676	3113	intercloud	8.10
572	02-05-2024 18:25:46	36.81932	33.47942	-1711	17318	intercloud	8.12
573	02-05-2024 18:19:48	36.83496	33.37704	-3408	19097	intercloud	8.13
574	01-05-2024 12:59:30	36.77071	33.50561	5495	11781	intercloud	8.14
575	02-05-2024 14:43:15	36.81371	33.48605	3055	6570	intercloud	8.15
576	02-05-2024 14:31:39	36.84139	33.42273	2116	6208	intercloud	8.17
577	01-05-2024 12:51:32	36.84164	33.40810	-3512	5551	intercloud	8.18
578	02-05-2024 18:33:30	36.82302	33.47589	-2913	6282	intercloud	8.20
579	02-05-2024 18:15:48	36.70784	33.36137	5824	4056	intercloud	8.21
580	01-05-2024 12:43:37	36.84127	33.42845	-10851	17939	intercloud	8.22
581	01-05-2024 13:00:53	36.84179	33.40477	-2082	19175	intercloud	8.22
582	02-05-2024 14:38:14	36.82381	33.47528	-4604	13366	intercloud	8.22
583	02-05-2024 14:48:33	36.75011	33.32484	-2886	8628	intercloud	8.22
584	22-05-2024 14:43:10	36.76950	33.50657	7526	7290	intercloud	8.22
585	02-05-2024 18:17:43	36.79080	33.32625	-3250	3509	intercloud	8.23
586	02-05-2024 13:55:34	36.80286	33.33237	-2618	8943	intercloud	8.25
587	02-05-2024 14:31:55	36.84224	33.40710	3398	4020	intercloud	8.25
588	02-05-2024 18:35:19	36.80190	33.49691	2698	3706	intercloud	8.25

#	Time (UTC)	Lat	Lng	Current (amps)	Height (m)	Lightning Type	Proximity (km)
589	02-05-2024 18:36:47	36.80984	33.49112	-2331	4668	intercloud	8.26
590	22-05-2024 14:43:10	36.82777	33.46993	-5051	11375	intercloud	8.27
591	01-05-2024 13:08:24	36.84136	33.43199	3882	6950	intercloud	8.28
592	02-05-2024 14:16:17	36.83206	33.36643	2600	5982	intercloud	8.28
593	02-05-2024 14:41:54	36.83876	33.44403	4119	10013	intercloud	8.28
594	22-05-2024 14:38:17	36.79313	33.32589	-8653	19865	intercloud	8.35
595	02-05-2024 14:14:35	36.83162	33.36360	-1563	6366	intercloud	8.37
596	01-05-2024 12:59:30	36.78079	33.50704	-4458	9285	intercloud	8.38
597	01-05-2024 13:10:49	36.80404	33.49732	-4216	4264	intercloud	8.40
598	02-05-2024 18:12:37	36.78883	33.32341	3431	9387	intercloud	8.41
599	22-05-2024 14:32:47	36.84388	33.41879	-6665	5247	intercloud	8.42
600	02-05-2024 14:37:43	36.76963	33.31964	4825	14158	intercloud	8.43
601	02-05-2024 15:11:03	36.77784	33.50819	1083	15197	intercloud	8.43
602	02-05-2024 18:31:52	36.72285	33.49010	-2959	7240	intercloud	8.43
603	22-05-2024 14:34:16	36.84169	33.39063	-2378	3146	intercloud	8.44
604	02-05-2024 18:36:47	36.76571	33.50910	-2427	5641	intercloud	8.45
605	02-05-2024 16:28:46	36.73885	33.32681	-7108	6250	intercloud	8.45
606	02-05-2024 14:41:54	36.84187	33.43836	-2702	5414	intercloud	8.46
607	02-05-2024 14:30:03	36.78479	33.32145	2528	5353	intercloud	8.47
608	02-05-2024 14:18:23	36.83577	33.36960	-4276	16774	intercloud	8.50
609	02-05-2024 14:38:14	36.83500	33.46083	-3686	11930	intercloud	8.50
610	02-05-2024 18:33:46	36.82318	33.48122	-3191	6075	intercloud	8.53
611	02-05-2024 18:24:06	36.83626	33.45955	-3811	7440	intercloud	8.57
612	22-05-2024 14:37:36	36.84175	33.44355	4924	3665	intercloud	8.58
613	02-05-2024 14:46:27	36.73756	33.50293	-2478	6834	intercloud	8.60
614	02-05-2024 18:35:39	36.77581	33.51056	-2147	15808	intercloud	8.61
615	01-05-2024 12:59:30	36.81099	33.49512	-3172	9934	intercloud	8.62
616	02-05-2024 14:46:27	36.73842	33.50373	-2377	6453	intercloud	8.63
617	02-05-2024 14:04:13	36.83088	33.35634	-2527	16888	intercloud	8.67
618	01-05-2024 13:12:31	36.78994	33.50800	-3215	18612	intercloud	8.69
619	02-05-2024 18:34:08	36.79988	33.50351	-3349	15797	intercloud	8.69
620	02-05-2024 18:22:08	36.84463	33.39318	-3299	3950	intercloud	8.70
621	22-05-2024 14:32:00	36.84601	33.40358	-4352	3205	intercloud	8.70
622	02-05-2024 14:14:35	36.83652	33.36647	-1909	17321	intercloud	8.71
623	02-05-2024 14:32:55	36.78828	33.31945	2887	19796	intercloud	8.74
624	02-05-2024 14:47:26	36.84469	33.43766	-2582	18304	intercloud	8.75
625	02-05-2024 14:15:25	36.84126	33.37726	-2770	6196	intercloud	8.76
626	01-05-2024 12:57:36	36.83870	33.45857	-4902	3000	intercloud	8.77

#	Time (UTC)	Lat	Lng	Current (amps)	Height (m)	Lightning Type	Proximity (km)
627	02-05-2024 18:25:06	36.83341	33.46983	-2837	5831	intercloud	8.77
628	02-05-2024 18:34:08	36.80137	33.50365	3575	13771	intercloud	8.77
629	02-05-2024 14:24:29	36.81958	33.33891	-1552	18614	intercloud	8.81
630	02-05-2024 14:41:25	36.84125	33.45286	-2247	18798	intercloud	8.81
631	02-05-2024 18:35:04	36.79638	33.50679	-2458	18717	intercloud	8.81
632	02-05-2024 18:35:39	36.82059	33.48874	-1419	17341	intercloud	8.82
633	02-05-2024 18:31:10	36.73720	33.50540	-2796	7577	intercloud	8.82
634	02-05-2024 18:18:47	36.82427	33.34408	-5833	4654	intercloud	8.83
635	01-05-2024 12:59:40	36.84716	33.42755	-3999	12337	intercloud	8.85
636	02-05-2024 14:30:48	36.84706	33.40025	1913	16327	intercloud	8.85
637	22-05-2024 14:33:18	36.84777	33.41870	-2420	6575	intercloud	8.85
638	02-05-2024 14:37:52	36.77653	33.31495	2007	4158	intercloud	8.90
639	02-05-2024 14:39:55	36.74497	33.31865	2357	19407	intercloud	8.91
640	02-05-2024 15:14:56	36.72622	33.49941	-1726	6545	intercloud	8.91
641	02-05-2024 18:08:46	36.81205	33.33058	-2798	5067	intercloud	8.91
642	02-05-2024 14:25:57	36.80321	33.32401	-1944	6350	intercloud	8.93
643	02-05-2024 18:08:42	36.80719	33.32627	3951	14305	intercloud	8.96
644	22-05-2024 14:26:06	36.84879	33.42212	-7298	3008	intercloud	8.98
645	02-05-2024 14:12:56	36.82660	33.34438	1752	17037	intercloud	8.99
646	01-05-2024 13:08:24	36.82489	33.48655	-9857	18724	intercloud	9.00
647	02-05-2024 14:11:25	36.83098	33.35054	-2210	16214	intercloud	9.00
648	02-05-2024 14:14:13	36.83143	33.35099	2521	16007	intercloud	9.01
649	02-05-2024 14:43:03	36.78000	33.31428	3031	6094	intercloud	9.01
650	02-05-2024 15:18:14	36.71294	33.48835	-3561	4364	intercloud	9.02
651	02-05-2024 18:10:14	36.82338	33.34004	-5190	3621	intercloud	9.02
652	27-05-2024 03:04:46	36.79216	33.31635	-4903	10726	intercloud	9.12
653	02-05-2024 18:36:47	36.77229	33.51666	-2280	18037	intercloud	9.13
654	02-05-2024 18:33:39	36.80803	33.50396	3443	12651	intercloud	9.13
655	01-05-2024 12:56:06	36.84607	33.38140	3074	17978	intercloud	9.14
656	02-05-2024 18:09:12	36.82918	33.34519	6789	7801	intercloud	9.15
657	02-05-2024 14:14:50	36.83847	33.36049	2990	5917	intercloud	9.16
658	02-05-2024 14:37:46	36.78194	33.31281	-3970	5562	intercloud	9.17
659	22-05-2024 14:36:43	36.84787	33.38618	-4522	18332	intercloud	9.20
660	02-05-2024 14:28:30	36.80193	33.31954	2516	5162	intercloud	9.23
661	02-05-2024 14:42:24	36.78228	33.31171	1562	15604	intercloud	9.27
662	02-05-2024 18:23:57	36.85131	33.40543	-2860	6571	intercloud	9.27
663	22-05-2024 14:13:23	36.83531	33.35226	6217	13712	intercloud	9.28
664	22-05-2024 14:28:53	36.84430	33.37135	4446	5821	intercloud	9.28

#	Time (UTC)	Lat	Lng	Current (amps)	Height (m)	Lightning Type	Proximity (km)
665	01-05-2024 13:15:57	36.82948	33.48543	-2270	10425	intercloud	9.30
666	02-05-2024 14:37:54	36.85053	33.43356	-2926	3126	intercloud	9.31
667	02-05-2024 14:36:31	36.78099	33.31087	-2448	5971	intercloud	9.32
668	22-05-2024 14:47:06	36.76747	33.51940	-3310	19749	intercloud	9.36
669	22-05-2024 14:47:06	36.76912	33.51954	-2852	16985	intercloud	9.37
670	02-05-2024 14:42:24	36.74221	33.31406	2638	5305	intercloud	9.39
671	02-05-2024 18:38:21	36.79202	33.51563	3457	5878	intercloud	9.40
672	02-05-2024 14:17:24	36.84297	33.36480	-3268	17278	intercloud	9.41
673	02-05-2024 14:28:06	36.84628	33.37341	2051	8018	intercloud	9.41
674	02-05-2024 16:27:30	36.73577	33.31643	-4388	16084	intercloud	9.44
675	02-05-2024 18:06:23	36.81013	33.32195	-2740	5069	intercloud	9.45
676	01-05-2024 13:02:53	36.82252	33.49634	5380	17244	intercloud	9.47
677	02-05-2024 13:55:19	36.81709	33.32706	-1795	5542	intercloud	9.48
678	02-05-2024 14:39:58	36.84004	33.47183	-1473	7241	intercloud	9.48
679	01-05-2024 12:59:30	36.78610	33.51849	-4584	11222	intercloud	9.49
680	22-05-2024 14:47:06	36.76762	33.52096	-3258	5726	intercloud	9.50
681	02-05-2024 14:07:49	36.83379	33.34576	-2914	6592	intercloud	9.51
682	02-05-2024 14:43:41	36.77502	33.30774	-2344	6011	intercloud	9.52
683	02-05-2024 14:13:12	36.85106	33.44255	2008	17042	intercloud	9.55
684	02-05-2024 14:45:38	36.76822	33.30707	-4630	6900	intercloud	9.55
685	02-05-2024 15:10:25	36.74640	33.51820	2091	6449	intercloud	9.57
686	01-05-2024 13:02:53	36.82560	33.49530	4114	17584	intercloud	9.63
687	02-05-2024 15:14:04	36.72268	33.50617	-4510	7141	intercloud	9.63
688	02-05-2024 14:42:24	36.78137	33.30723	1891	6368	intercloud	9.65
689	01-05-2024 13:01:52	36.84742	33.45979	4054	13541	intercloud	9.69
690	01-05-2024 13:08:44	36.85291	33.44158	-6430	15017	intercloud	9.72
691	02-05-2024 18:15:58	36.82790	33.33432	3566	16320	intercloud	9.73
692	02-05-2024 18:29:22	36.84821	33.45910	-4184	7660	intercloud	9.75
693	02-05-2024 18:46:23	36.80711	33.51260	6632	19064	intercloud	9.76
694	02-05-2024 14:34:52	36.77510	33.30494	-3308	3798	intercloud	9.77
695	02-05-2024 14:43:02	36.76809	33.30449	-2326	6068	intercloud	9.78
696	02-05-2024 18:17:11	36.80420	33.31339	-3196	7275	intercloud	9.84
697	01-05-2024 12:55:08	36.85426	33.38776	-3648	3800	intercloud	9.85
698	01-05-2024 13:08:44	36.85555	33.39388	3639	17055	intercloud	9.88
699	01-05-2024 13:15:57	36.83639	33.48559	2983	17286	intercloud	9.88
700	02-05-2024 15:17:24	36.69080	33.46857	-1748	6424	intercloud	9.88
701	22-05-2024 14:32:00	36.85708	33.41008	-5963	18011	intercloud	9.89
702	01-05-2024 09:49:55	36.83344	33.49009	2227	17776	intercloud	9.90

#	Time (UTC)	Lat	Lng	Current (amps)	Height (m)	Lightning Type	Proximity (km)
703	22-05-2024 14:33:28	36.85162	33.37451	2528	6370	intercloud	9.93
704	01-05-2024 13:11:33	36.83052	33.49457	4077	5760	intercloud	9.95
705	02-05-2024 14:16:59	36.84539	33.35677	-2263	5104	intercloud	9.99

Appendix

Risk Calculation Method:

How Risk Scores Are Determined:

Risk scores combine lightning current magnitude and distance from turbines. Higher scores indicate greater exposure and potential damage risk.

- $\text{Risk} = P0 \times (1 + \alpha \times \text{Current} / 10000) \times e^{(-\alpha \times \text{Distance})}$
 - $P0$ = Base probability (1.0), α = Distance decay factor (0.5)
 - Current = Lightning current magnitude in amperes
 - Distance = Distance from turbine in kilometers
 - Higher current and closer distance = Higher risk score
 - Risk scores are summed for all lightning strikes affecting each turbine.
- The log value of the calculated risk score is used to represent the risk level.

Centroid and Distance Ring Calculation:

- Turbines are grouped by proximity (within 4km of each other)
- Group centroid = Average latitude and longitude of all turbines in the group
- Distance rings are drawn from the group centroid, not individual turbines
- Single isolated turbines get their own centroid (individual analysis)
- Distance calculations use Haversine formula for accurate geographic distances

Frequent Lightning Activity Period Detection Algorithm:

How Period Timespans Are Determined:

The algorithm uses a gap-based approach to identify concentrated lightning activity periods.

Step-by-Step Process:

1. Chronological Sorting: All lightning events are sorted by timestamp (local_time)
2. Gap Calculation: Time differences between consecutive lightning events are calculated
3. Period Boundary Detection:
 - When a gap between two consecutive events exceeds 30 minutes (configurable), it marks the end of one period and the start of another
 - This creates natural breaks in lightning activity
4. Period Validation:
 - Only periods with ≥ 10 lightning events (configurable) are considered significant
 - This filters out minor activity and focuses on major storm events
5. Timespan Definition:
 - Start time: Timestamp of the first lightning event in the period
 - End time: Timestamp of the last lightning event in the period
 - The period timespan is the actual duration from first to last event, not a fixed duration
6. Peak Sub-Period Detection:
 - Uses a 3-minute rolling average to smooth the data
 - Identifies peaks when activity exceeds mean + 1 standard deviation
 - These peak periods are highlighted in yellow on the histogram

Key Algorithm Features:

- Dynamic Duration: Period lengths vary based on actual lightning activity, not fixed time windows
- Gap-Based Segmentation: Natural breaks in activity define period boundaries
- Statistical Peak Detection: Uses statistical thresholds to identify intense sub-periods
- Configurable Thresholds: All parameters can be adjusted in the configuration