



National Transportation Safety Board

**Office of Aviation Safety
Washington, D.C. 20594-2000
April 18, 2017**

**ATTACHMENT 5 to the WEATHER STUDY
DCA16IA215**

Total lightning activity detected by the Earth Networks Total Lightning Network in the incident region between 1955 and 2011 CDT.

*Submitted by: Mike Richards
NTSB, AS-30*

<u>flashType</u>	<u>time</u>	<u>latitude</u>	<u>longitude</u>	<u>peakcurrent</u>	<u>icheight</u>	<u>numbersensors</u>	<u>multiplicity</u>
1	2016-08-12T00:55:00.2962011	43.72011	-99.89332	-6089	17559	6	1
0	2016-08-12T00:55:00.7344092	43.6784	-100.74532	-54047	0	21	4
1	2016-08-12T00:55:13.3385382	43.66383	-100.74634	4405	7996	8	1
1	2016-08-12T00:55:14.138727	43.77817	-100.71301	-3937	15767	6	1
0	2016-08-12T00:55:16.0098856	43.38899	-101.09644	-24487	0	21	2
1	2016-08-12T00:55:17.1863624	43.78945	-100.79111	7204	15005	15	2
1	2016-08-12T00:55:22.3305058	43.67817	-100.45744	-5386	18389	17	3
0	2016-08-12T00:55:22.347951	43.71054	-99.88714	-11201	0	23	2
1	2016-08-12T00:55:29.9630164	43.70159	-99.89288	-5130	15300	14	1
1	2016-08-12T00:55:37.4956617	43.40277	-101.16796	-5672	9922	13	1
1	2016-08-12T00:55:48.8429902	43.72734	-99.88143	-6505	16283	20	2
1	2016-08-12T00:56:00.1687255	43.76101	-100.71586	19892	16935	27	3
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1	2016-08-12T00:56:01.792336	43.64028	-101.26324	10097	14227	19	4
0	2016-08-12T00:56:07.7652386	43.34557	-101.11996	-19938	0	15	1
0	2016-08-12T00:56:11.8508511	43.70428	-99.8797	-16035	0	19	1
1	2016-08-12T00:56:14.5954964	43.72414	-100.34801	-6905	19660	14	2
0	2016-08-12T00:56:17.1768817	43.67072	-100.74001	-24977	0	20	1
0	2016-08-12T00:56:17.2142421	43.68656	-100.74133	-34676	0	35	3
1	2016-08-12T00:56:21.3086773	43.64747	-101.24815	6095	9240	11	1
1	2016-08-12T00:56:24.7615188	43.5139	-100.76181	7260	11567	13	1
1	2016-08-12T00:56:25.7814888	43.70416	-100.4381	-14720	18817	16	1
1	2016-08-12T00:56:34.5287308	43.65225	-101.2708	-7609	13720	16	1
0	2016-08-12T00:56:38.147676	43.39197	-101.16197	-16340	0	31	2
0	2016-08-12T00:56:49.8972567	43.70938	-99.86592	-5957	0	12	1
1	2016-08-12T00:56:51.0456467	43.35742	-101.1461	-2983	16837	6	1
0	2016-08-12T00:56:55.2746977	43.72393	-100.33213	-7752	0	20	1
0	2016-08-12T00:56:57.3392879	43.63004	-101.28245	-7385	0	19	1
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1	2016-08-12T00:57:03.6329646	43.37384	-101.15925	3160	17332	5	1
1	2016-08-12T00:57:05.6871928	43.6648	-100.73088	6078	17102	14	2
1	2016-08-12T00:57:21.6013955	43.46104	-101.19175	5388	15876	11	1
1	2016-08-12T00:57:25.3883565	43.69773	-99.85439	-9575	18471	17	1
1	2016-08-12T00:57:30.6259386	43.67812	-99.92691	8616	18754	12	1
1	2016-08-12T00:57:36.4842649	43.36288	-101.19443	7861	12298	12	1
1	2016-08-12T00:57:36.7416276	43.65476	-100.72995	28972	18668	22	5
1	2016-08-12T00:57:44.4090633	43.37653	-101.14892	4980	6134	7	1
1	2016-08-12T00:57:53.2621644	43.38288	-101.28377	5398	17006	17	3
1	2016-08-12T00:57:57.4245672	43.40363	-101.17935	4763	19056	16	2
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1	2016-08-12T00:58:06.8489542	43.63655	-100.3629	-12229	7870	16	1
1	2016-08-12T00:58:10.6652108	43.63055	-100.73529	4866	14616	8	1
0	2016-08-12T00:58:11.1729143	43.38926	-101.11299	-33821	0	21	2
1	2016-08-12T00:58:38.9418928	43.72019	-100.32573	-5429	12858	7	1
1	2016-08-12T00:58:38.9912934	43.65883	-100.72636	8570	15879	5	1
1	2016-08-12T00:58:53.8342664	43.66001	-101.22875	6608	18614	13	1
1	2016-08-12T00:59:02.8034822	43.69505	-100.38358	-6238	18445	13	1
1	2016-08-12T00:59:06.0087965	43.66981	-99.88814	-4980	11203	6	1
1	2016-08-12T00:59:24.3058736	43.3695	-101.14436	-6335	10525	8	2
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1	2016-08-12T00:59:41.9682026	43.36386	-101.17138	8681	16128	19	2
1	2016-08-12T00:59:43.3268967	43.65095	-100.73177	8839	15465	19	3
0	2016-08-12T00:59:54.1613512	43.67118	-99.90602	-5924	0	12	1
1	2016-08-12T00:59:55.2131198	43.38425	-101.11655	-2885	13582	6	1

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1	2016-08-12T01:00:04.78523	43.37662	-101.18008	14003	10614	17	4
1	2016-08-12T01:00:05.3860664	43.68428	-100.35736	-6437	17508	12	1
1	2016-08-12T01:00:08.0652421	43.65021	-99.92399	-9548	17904	5	1
1	2016-08-12T01:00:15.5006152	43.66108	-99.91271	-6793	18053	14	1
1	2016-08-12T01:00:23.1099863	43.36753	-101.26209	8856	18773	22	2
1	2016-08-12T01:00:27.9140109	43.61948	-101.24199	4982	19154	9	1
1	2016-08-12T01:00:30.2437035	43.36544	-101.18872	8765	15042	16	1
1	2016-08-12T01:00:33.0384722	43.74164	-100.30542	-8448	19549	13	2
1	2016-08-12T01:00:41.7381663	43.65915	-101.22494	-7332	17715	12	1
1	2016-08-12T01:00:42.7453107	43.38598	-101.12666	-5260	18972	17	1
1	2016-08-12T01:00:47.0402808	43.67706	-99.91245	-6389	14175	11	1
1	2016-08-12T01:00:50.1246932	43.6519	-99.91287	-5235	14596	13	1
1	2016-08-12T01:00:51.8603992	43.64233	-99.8911	6318	18299	17	1
1	2016-08-12T01:00:51.977542	43.41696	-101.18179	3225	17427	5	1
1	2016-08-12T01:00:56.4147794	43.48757	-100.53753	-11381	12960	16	1
1	2016-08-12T01:01:00.765261	43.62601	-101.22628	6075	13462	16	1
1	2016-08-12T01:01:02.1197531	43.64013	-99.8742	6895	16480	18	1
1	2016-08-12T01:01:06.0845006	43.65842	-99.86905	-10902	19233	16	1
1	2016-08-12T01:01:10.1789561	43.72358	-99.81544	-7544	10571	13	1
1	2016-08-12T01:01:11.2822908	43.3296	-100.30513	-14033	11981	17	1
1	2016-08-12T01:01:15.1047441	43.6487	-99.86708	-5910	12419	17	2
1	2016-08-12T01:01:25.2880299	43.37629	-101.13471	6930	9896	16	1
1	2016-08-12T01:01:34.8651203	43.64967	-99.87472	-4348	10105	6	1
1	2016-08-12T01:01:35.3175064	43.37735	-101.16773	6989	14210	16	1
1	2016-08-12T01:01:35.4518158	43.70643	-100.35633	-3506	15029	11	1
1	2016-08-12T01:01:35.5838341	43.69212	-100.74015	-7364	16862	9	1
1	2016-08-12T01:01:37.9313037	43.65795	-100.3382	-4747	18761	5	1
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1	2016-08-12T01:01:49.9872366	43.67686	-99.89809	-4962	16712	13	1
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1	2016-08-12T01:01:59.5438683	43.64532	-99.83039	6518	12449	19	1
1	2016-08-12T01:02:01.3321515	43.63969	-99.86277	-4250	20150	7	1
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1	2016-08-12T01:02:18.0927417	43.35287	-101.16138	7818	15845	10	2
1	2016-08-12T01:02:18.2485335	43.65303	-99.8502	-9884	12594	16	1
1	2016-08-12T01:02:18.2615698	43.64346	-99.85836	-4533	16920	5	1
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1	2016-08-12T01:02:34.9240021	43.72167	-100.29874	-5250	16664	9	1
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1	2016-08-12T01:02:44.4793592	43.36558	-101.13859	5830	10580	14	2
1	2016-08-12T01:02:44.8048551	43.64843	-99.86091	-9334	16772	15	1
1	2016-08-12T01:02:47.6342551	43.65352	-99.83573	-7463	13300	14	1
1	2016-08-12T01:02:56.9817759	43.63054	-99.8759	4613	9387	11	1
1	2016-08-12T01:02:59.9207621	43.35458	-101.16563	4741	13826	6	2
0	2016-08-12T01:03:02.7565334	43.39868	-101.10433	-11041	0	27	1
1	2016-08-12T01:03:07.6589723	43.65378	-99.87258	-9560	19575	18	1
1	2016-08-12T01:03:13.0992543	43.39664	-101.14704	4414	13100	12	2
1	2016-08-12T01:03:13.4743176	43.72414	-100.29187	-5489	19550	15	1
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1	2016-08-12T01:03:25.047692	43.6613	-99.84095	-8099	16650	14	1
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1	2016-08-12T01:03:37.5819005	43.34787	-101.1777	3230	13839	5	1
1	2016-08-12T01:03:39.3313952	43.63438	-99.91513	-3828	19455	5	1
1	2016-08-12T01:03:41.7119086	43.69287	-99.91356	-6408	16314	12	2
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1	2016-08-12T01:04:01.5512796	43.35384	-101.17041	-7343	17226	5	1
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1	2016-08-12T01:04:12.7415936	43.61989	-101.20283	16631	13851	13	2
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1	2016-08-12T01:04:21.36507	43.20146	-101.22845	-3209	13041	5	1
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1	2016-08-12T01:04:49.6126744	43.35545	-101.18896	4101	19924	8	1
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1	2016-08-12T01:05:26.9300095	43.64689	-99.90553	-12487	16554	21	2
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1	2016-08-12T01:05:52.9005186	43.34601	-100.25224	-23118	19258	18	1
0	2016-08-12T01:05:53.1580636	43.34967	-100.25743	-7495	0	19	1
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1	2016-08-12T01:06:28.6376607	43.41004	-101.05845	5511	13805	12	1
1	2016-08-12T01:06:33.3723119	43.61516	-101.18248	3899	8494	5	1
1	2016-08-12T01:06:35.6238863	43.71046	-99.89671	-5473	18385	7	1
1	2016-08-12T01:06:36.3983678	43.63628	-100.2646	6955	14829	11	1
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1	2016-08-12T01:06:44.6103634	43.65236	-99.87745	-5576	18567	7	1
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1	2016-08-12T01:06:59.6298642	43.63931	-99.84214	-4941	15712	7	1
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1	2016-08-12T01:07:03.3721789	43.62882	-101.18547	2986	19318	5	1
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1	2016-08-12T01:07:19.777764	43.62606	-100.66783	15958	16194	25	4
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1	2016-08-12T01:07:20.9720046	43.57018	-101.20813	-12448	18099	16	1
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1	2016-08-12T01:07:28.3491534	43.71336	-99.88249	-13375	13066	15	1
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0	2016-08-12T01:07:35.2217942	43.67533	-100.31718	-11234	0	18	1
1	2016-08-12T01:07:39.3439044	43.74658	-99.88649	1769	14463	5	1
1	2016-08-12T01:07:41.0292874	43.69246	-100.26107	-4173	9527	9	1
1	2016-08-12T01:07:41.1568901	43.36004	-101.12769	12562	7167	12	2
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1	2016-08-12T01:07:51.9188163	43.66731	-100.28345	-6500	14456	6	1
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1	2016-08-12T01:07:53.7572163	43.67387	-100.3293	6819	17635	5	1
1	2016-08-12T01:07:54.0382702	43.65635	-100.38044	-4968	19525	9	1
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