

2021 global lightning statistics

Explore total (in-cloud and cloud-to-ground) lightning count and density for each country/region in 2021. Data for the United States includes National Lightning Detection Network counts for the continental United States and the Global Lightning Dataset GLD360 for Alaska and Hawaii. Data for the remaining countries are from GLD360. All counts are lightning events detected over the land area within country borders. NLDN and GLD360 are owned and operated by Vaisala.

**Total
 GLD360 detections
 (including oceans)
 2,409,799,364**

Region	2021 lightning count	2021 lightning density (events/km ²)
Afghanistan	282,985	0.44
Åland	147	0.19
Albania	171,014	6.03
Algeria	1,698,376	0.73
American Samoa	188	1.56
Andorra	2,142	4.85
Angola	29,212,237	23.38
Anguilla	88	1.06
Antarctica	0	0
Antigua and Barbuda	217	0.50
Argentina	44,924,969	16.14
Armenia	146,851	4.97
Aruba	563	3.63
Ashmore and Cartier Islands	40	14.72
Australia	146,629,026	19.03
Austria	471,591	5.62
Azerbaijan	172,989	2.00
Bahrain	82	0.15
Bangladesh	5,757,836	42.44
Barbados	4,223	10.85
Belarus	487,192	2.36
Belgium	68,510	2.24
Belize	608,057	26.69
Benin	2,701,709	23.17
Bermuda	187	2.83
Bhutan	86,057	2.16
Bolivia	27,831,934	25.53

Region	2021 lightning count	2021 lightning density (events/km ²)
Bosnia and Herzegovina	357,610	6.92
Botswana	8,255,351	14.22
Brazil	225,607,575	26.54
British Indian Ocean Territory	52	0.39
British Virgin Islands	442	3.27
Brunei	596,856	105.22
Bulgaria	508,552	4.52
Burkina Faso	4,307,900	15.74
Burundi	493,460	18.14
Cabo Verde	678	0.19
Cambodia	12,248,660	67.53
Cameroon	14,798,178	33.91
Canada	17,934,373	1.82
Cayman Islands	2,534	8.41
Central African Republic	29,324,897	47.22
Chad	14,881,673	11.71
Chile	606,537	0.82
China (Mainland)	86,102,056	9.19
Colombia	36,435,131	31.97
Comoros	7,818	4.93
Cook Islands	141	2.32
Costa Rica	1,143,227	22.19
Croatia	268,823	4.94
Cuba	6,631,685	60.67
Curaçao	335	0.78
Cyprus	9,316	1.63
Czechia	369,971	4.71
Democratic Republic of the Congo	180,105,987	77.14
Denmark	74,386	1.75
Djibouti	242,574	11.18
Dominica	1,368	1.96
Dominican Republic	966,798	19.90
East Timor	568,038	37.81
Ecuador	3,197,014	12.50
Egypt	240,558	0.24
El Salvador	1,332,299	65.33

Region	2021 lightning count	2021 lightning density (events/km ²)
Equatorial Guinea	769,136	28.87
Eritrea	1,533,184	12.40
Estonia	76,193	1.68
Eswatini	609,825	35.89
Ethiopia	11,110,966	9.82
Falkland Islands	328	0.03
Faroe Islands	18	0.02
Federated States of Micronesia	479	0.91
Fiji	178,438	9.69
Finland	271,139	0.82
France	2,216,270	3.49
French Polynesia	4,761	1.82
French Southern and Antarctic Lands	101	0.01
Gabon	10,908,095	41.84
Gambia	194,465	18.85
Georgia	520,568	7.51
Germany	976,680	2.74
Ghana	5,270,657	22.00
Greece	502,120	3.88
Greenland	1,039	<0.01
Grenada	378	1.32
Guam	2,012	4.17
Guatemala	5,281,714	48.68
Guernsey	129	2.68
Guinea	7,951,690	32.46
Guinea-Bissau	813,149	25.36
Guyana	1,520,903	7.18
Haiti	848,170	31.64
Heard Island and McDonald Islands	0	0
Honduras	2,618,990	23.07
Hong Kong S.A.R.	33,182	32.25
Hungary	366,043	3.94
Iceland	172	<0.01
India	51,501,500	16.32
Indian Ocean Territories	154	1.07
Indonesia	81,767,821	43.67

Region	2021 lightning count	2021 lightning density (events/km ²)
Iran	2,542,622	1.57
Iraq	303,545	0.69
Ireland	16,356	0.24
Isle of Man	23	0.04
Israel	7,262	0.33
Italy	2,788,581	9.29
Ivory Coast	5,254,329	16.30
Jamaica	467,590	42.77
Japan	2,993,388	8.09
Jersey	118	0.93
Jordan	17,048	0.19
Kazakhstan	2,793,980	1.03
Kenya	1,744,982	2.93
Kiribati	92	0.10
Kosovo	53,853	4.93
Kuwait	11,440	0.66
Kyrgyzstan	169,055	0.85
Laos	8,149,090	35.59
Latvia	101,216	1.57
Lebanon	14,628	1.46
Lesotho	539,353	17.96
Liberia	2,465,702	25.77
Libya	170,685	0.10
Liechtenstein	823	5.97
Lithuania	93,684	1.45
Luxembourg	5,841	2.24
Macao S.A.R.	3,084	135.61
Macedonia	109,530	4.32
Madagascar	17,173,300	28.88
Malawi	2,163,783	18.06
Maldives	267	4.02
Mali	10,580,574	8.41
Malta	2,883	10.53
Marshall Islands	126	0.53
Mauritania	2,012,361	1.94
Mauritius	3,981	2.12

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Mexico	50,751,946	25.86
Moldova	218,216	6.59
Monaco	90	7.25
Mongolia	3,012,809	1.93
Montenegro	88,914	6.51
Montserrat	81	1.02
Morocco	408,532	0.70
Mozambique	12,998,483	16.44
Myanmar	9,424,011	14.22
Namibia	5,057,306	6.13
Nauru	7	0.25
Nepal	797,863	5.42
Netherlands	61,879	1.67
New Caledonia	99,188	5.31
New Zealand	99,861	0.37
Nicaragua	2,624,358	20.30
Niger	6,580,066	5.55
Nigeria	24,579,034	26.96
Niue	183	0.93
Norfolk Island	39	0.95
North Korea	918,089	7.49
Northern Cyprus	5,825	1.68
Northern Mariana Islands	809	2.06
Norway	71,136	0.19
Oman	193,158	0.62
Pakistan	4,880,610	5.59
Palau	1,619	4.75
Palestine	1,929	0.30
Panama	3,161,324	42.58
Papua New Guinea	14,190,419	30.56
Paraguay	15,831,613	39.49
Peru	28,754,564	22.18
Philippines	16,430,847	56.59
Pitcairn Islands	14	0.36
Poland	1,096,106	3.51
Portugal	126,307	1.39

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Puerto Rico	171,005	19.12
Qatar	2,548	0.23
Republic of Serbia	548,832	7.08
Republic of the Congo	21,091,349	60.80
Romania	1,011,868	4.29
Russia	28,937,138	1.71
Rwanda	329,119	12.96
Saint Barthelemy	16	0.65
Saint Helena	24	0.13
Saint Kitts and Nevis	129	0.55
Saint Lucia	1,520	2.76
Saint Martin	27	0.55
Saint Pierre and Miquelon	59	0.29
Saint Vincent and the Grenadines	2,221	7.14
Samoa	7,154	2.65
San Marino	233	3.41
São Tomé and Príncipe	10,351	10.50
Saudi Arabia	3,949,877	2.05
Senegal	2,207,386	11.19
Seychelles	724	4.15
Sierra Leone	2,489,780	34.64
Singapore	79,089	163.08
Sint Maarten	11	0.26
Slovakia	274,110	5.67
Slovenia	104,012	5.15
Solomon Islands	194,993	7.57
Somalia	854,778	1.80
Somaliland	589,516	3.50
South Africa	15,218,008	12.46
South Georgia and the Islands	48	0.01
South Korea	925,745	9.53
South Sudan	18,874,542	30.25
Spain	1,635,042	3.23
Sri Lanka	2,280,018	34.52
Sudan	18,414,509	9.88
Suriname	1,091,587	7.50

Region	2021 lightning count	2021 lightning density (events/km ²)
Sweden	293,034	0.66
Switzerland	235,139	5.71
Syria	56,046	0.30
Taiwan	872,284	24.23
Tajikistan	62,036	0.44
Thailand	17,434,214	33.80
The Bahamas	257,098	20.29
Togo	1,406,524	24.61
Tonga	407	0.94
Trinidad and Tobago	23,001	4.51
Tunisia	288,594	1.84
Turkey	2,092,185	2.68
Turkmenistan	87,391	0.19
Turks and Caicos Islands	1,627	4.93
Uganda	5,718,017	23.57
Ukraine	2,965,613	5.20
United Arab Emirates	53,477	0.75
United Kingdom	63,396	0.26
United Republic of Tanzania	10,366,766	10.96
United States of America	194,549,696	20.27
United States Virgin Islands	662	2.10
Uruguay	4,255,239	23.96
Uzbekistan	83,963	0.19
Vanuatu	80,081	7.09
Vatican	0	0
Venezuela	13,500,639	14.76
Vietnam	19,084,100	58.01
Wallis and Futuna	115	0.87
Western Sahara	45,745	0.50
Yemen	3,897,446	8.58
Zambia	13,193,767	17.46
Zimbabwe	4,993,109	12.80

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