

List of weather records

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This is a **list of weather records**, a list of the most extreme occurrences of weather phenomena for various categories. Many weather records are measured under specific conditions—such as surface temperature and wind speed—to keep consistency among measurements around the Earth. Each of these records is understood to be the record value officially observed, as these records may have been exceeded before modern weather instrumentation was invented, or in remote areas without an official weather station. This list does not include remotely sensed observations such as satellite measurements, since those values are not considered official records.^[1]

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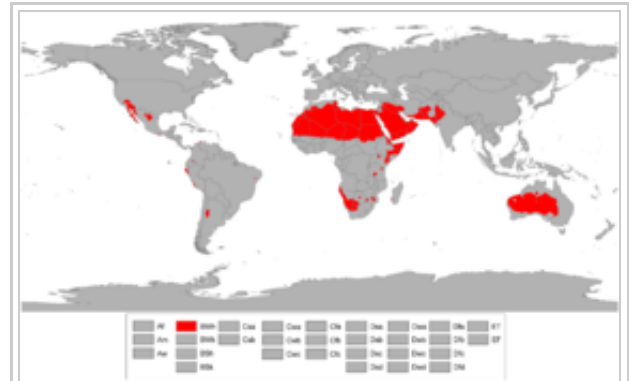
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Temperature

The standard measuring conditions for temperature are two meters above the ground, and shielded from direct sunlight (hence the term, x degrees "in the shade"). These lists include all officially confirmed claims measured by those methods.

Heat

Highest temperatures ever recorded



A world map showing areas with Köppen *BWh* (hot desert climate). The temperature in these regions has potential to exceed 50 °C (122 °F) during hottest seasons.

Country/Region	Temperature	Town/Location	Date
World† North America USA	56.7 °C (134 °F)	Furnace Creek Ranch (formerly <i>Greenland Ranch</i>), Death Valley, California	1913-07-10 ^{[2][3][4]}
Canada	45.0 °C (113 °F)	Midale, Yellow Grass, Saskatchewan	1937-07-05 ^[5]
Greenland	25.9 °C (78.6 °F)	Maniitsoq	2013-07-30 ^[6]
Mexico	52.0 °C (125.6 °F)	San Luis Río Colorado, Sonora	1966-07-06 ^{[7][8]}
Africa Tunisia	55.0 °C (131 °F)	Kebili	1931-07-07 ^{[9][10]}
Algeria	50.6 °C (123.1 °F)	In Salah, Tamanrasset Province	2002-07-12 ^[9]
Benin	44.5 °C (112 °F)	Kandi	? ^[11]
Botswana	42.6 °C (108.4 °F)	Tsabong	? ^[11]
Burkina Faso	47.2 °C (117 °F)	Dori	? ^[11]
Cameroon	47.7 °C (117.9 °F)	Kousseri	? ^[12]
Central African Republic	45 °C (113 °F)	Birao	? ^[11]
Chad	47.6 °C (117.7 °F)	Faya-Largeau	2010-06-22 ^[12]
Côte d'Ivoire	41.5 °C (106.7 °F)	Odienne	? ^[11]
Djibouti	49.5 °C (121 °F)	Tadjourah	? ^[11]
Egypt	50.3 °C (122.6 °F)	Kharga	? ^[11]

 Eritrea	48 °C (118.4 °F)	Massawa	? ^[11]
 Ethiopia	48.9 °C (120 °F)	Dallol	? ^[11]
 The Gambia	45.5 °C (114 °F)	Basse Santa Su	2008-?-? ^[11]
 Ghana	43.9 °C (111 °F)	Navrongo	? ^[11]
 Guinea-Bissau	43.6 °C (110.5 °F)	Bafata	? ^[11]
 Libya	50.2 °C (122.4 °F)	Zuara	1995-06 ^{[10][13]}
 Malawi	45 °C (113 °F)	Ngabu, Chikwawa District	? ^[11]
 Mali	48.2 °C (118 °F)	Gao	? ^[11]
 Mauritania	50 °C (122 °F)	Akjoujt, Inchiri	? ^[11]
 Morocco	49.6 °C (121.3 °F)	Marrakech	2012-07-17 ^[14]
 Mozambique	47.3 °C (117.2 °F)	Chibuto	2009-02-03 ^[11]
 Namibia	47.8 °C (118 °F)	Noordoewer	2009-02-06 ^[11]
 Niger	48.2 °C (118.8 °F)	Bilma	2010-06-23 ^[12]
 Nigeria	46.4 °C (115.5 °F)	Yola	2010-04-03 ^[12]
 Senegal	48.8 °C (119.8 °F)	Matam	? ^[11]
 Sierra Leone	40 °C (104 °F)	Njala	? ^[11]
 Somalia	47.8 °C (118 °F)	Berbera	? ^[15]
 South Africa	50.0 °C (122 °F)	Dunbrody, Eastern Cape	1918 ^[16]
 Sudan	49.7 °C (121.5 °F)	Dongola	2010-06-25 ^[12]
 Swaziland	46.1 °C (115 °F)	Sidvokodvo	? ^[11]
 Tanzania	39.4 °C (102.9 °F)	Kisauni, Zanzibar	? ^[15]
 Zambia	42.4 °C (108.3 °F)	Mfuwe, Eastern Province	2010-10-13 ^[12]
 Zimbabwe	45.6 °C (114 °F)	Beitbridge	? ^[11]
Asia  Israel	54 °C (129.2 °F)	Tirat Zvi	1942-06-21 ^{[9][17][18]} **
 Bangladesh	45.1 °C (113.2 °F)	Rajshahi	1972-04-30 ^[19]
 China	49.7 °C (121.5 °F)	Ayding Lake, Turpan, Xinjiang	2008-08-03 ^[12]
 India	50.6 °C (123 °F)	Alwar, Rajasthan	1956-05-10 ^[20]
 Indonesia	39.5 °C (103.1 °F)	Jatiwangi, Cirebon, West Java	2006-12-? ^[11]
 Iran	52.6 °C (126.7 °F)	Omidiyeh, Khuzestan Province Shushtar, Khuzestan Province	? ^[11]
 Iraq	53.0 °C (127.4 °F)	Ali Air Base, Nasiriyah	2011-08-03 ^{[21][22][11]}

 Japan	41.0 °C (105.8 °F)	Shimanto, Kōchi	2013-08-12 ^[23]
 Kuwait	53.6 °C (128.5 °F)	Sulaibya	2012-07-31 ^[14]
 Malaysia	40.1 °C (104.2 °F)	Chuping	1998-04-09 ^[24]
 Myanmar	47.0 °C (116.6 °F)	Myinmu	2010-05-12 ^[12]
 Pakistan	53.5 °C (128.3 °F)	Mohenjo-daro, Sindh	2010-05-26 ^{[12][25]}
 Philippines	42.2 °C (107.96 °F)	Tuguegarao, Cagayan Valley	1912-04-12 ^[26]
 Qatar	50.4 °C (122.7 °F)	Doha	2010-07-14 ^[12]
 Russia	42.3 °C (108.1 °F)	Belogorsk, Amur Oblast	2010-07-12 ^[27]
 Saudi Arabia	52.0 °C (125.6 °F)	Jeddah	2010-06-22 ^[12]
 Singapore	36.0 °C (96.8 °F)	Singapore	1998-03-26 ^[24]
 South Korea	40.0 °C (104 °F)	Daegu	1942-08-01 ^[28]
 Taiwan	40.2 °C (104 °F)	Taitung County	2004-05-09 ^[29]
 Thailand	44.5 °C (112.1 °F)	Uttaradit	1960-04-27 ^[30]
 Turkey	48.8 °C (119.8 °F)	Mardin	1993-08-14 ^[31]
Oceania [‡]  Australia	50.7 °C (123.3 °F)	Oodnadatta, South Australia	1960-01-02 ^{[32][33][34]}
 New Zealand	42.4 °C (108.3 °F)	Rangiora, Canterbury and Jordan, Marlborough (tied)	1973-02-07 ^[35]
 Solomon Islands	36.1 °C (97 °F)	Honiara, Guadalcanal Province	2010-02-01 ^[12]
South America  Argentina	49.1 °C (120.4 °F)	Villa de María, Córdoba Province	1920-01-02 ^{[32][36]}
 Bolivia	46.7 °C (116.1 °F)	Villamontes, Tarija Department	2010-10-29* ^[12]
 Brazil	44.7 °C (112.4 °F)	Bom Jesus, Piauí	2005-11-21 ^[37]
 Colombia	42.3 °C (108 °F)	Puerto Salgar, Cundinamarca Department	2010-10-29 ^[12]
 Paraguay	45 °C (113 °F)	Pratts Gill, Boquerón Department	2009-11-14 ^[38]
 Uruguay	44 °C (111.2 °F)	Paysandú, Paysandú Department	1943-01-20 ^[39]
 Venezuela	41 °C (105.8 °F)	Maracaibo, Zulia State	? ^[11]
Central America and Caribbean Islands  Guatemala	45 °C (113 °F)	Estanzuela, Zacapa	? ^[40]
 Dominican Republic	43.0 °C (109.4 °F)	Mao	1954-08-31 ^{[41][42]}

 Cuba	38.8 °C (102 °F)	Jucarito (Granma Province)	1999-04-17 ^[43]
 Puerto Rico	37.2 °C (99 °F)	Arecibo	1985-06-25 ^[44]
Europe  Greece  Italy	48.0 °C or 48.5 °C (118.4 °F or 119.3 °F)	Athens, Greece or Catenanuova, Italy (Catenanuova's record is disputed)	1977-07-10 ^[45] or 1999-08-10 ^[46]
 Albania	43.9 °C (111.0 °F)	Kuçovë	1973-07-18 ^[15]
 Andorra	38.5 °C (101.3 °F)	Andorra la Vella	?
 Austria	40.5 °C (104.9 °F)	Bad Deutsch-Altenburg	2013-08-08 ^[47]
 Belarus	38.9 °C (102 °F)	Gomel	2010-08-07 ^[12]
 Belgium	38.8 °C (102 °F)	Uccle	1947-06-27
 Bosnia and Herzegovina	46.2 °C (115.16 °F)	Mostar (Herzegovina, Federation of Bosnia and Herzegovina)	1900-07-31
 Bulgaria	45.2 °C (113.3 °F)	Sadovo, Plovdiv Province	1916-08-05 ^[48]
 Croatia	42.8 °C (109 °F)	Ploče	1998-08-05 ^[49]
 Cyprus	46.6 °C (115.9 °F)	Lefkoniko	2010-08-01 ^[12]
 Czech Republic	40.4 °C (104.7 °F)	Dobřichovice, Prague-West District	2012-08-20 ^[50]
 Denmark	36.4 °C (97.5 °F)	Holstebro, Midtjylland	1975-08-10 ^[51]
 Estonia	35.6 °C (96.1 °F)	Võru	1992-08-11 ^[52]
 Finland	37.2 °C (99 °F)	Liperi	2010-07-29 ^[53]
 France	44.1 °C (111.4 °F)	Conqueyrac / Saint-Christol-lès-Alès	2003-08-12 ^[54]
 Germany	40.2 °C (104.4 °F)	Gärnersdorf bei Amberg / Karlsruhe / March (Breisgau) / Freiburg	1983-07-27 / 2003-08-09 / 2003-08-13 / 2013-07-27 ^[55] ^[56]
 Hungary	41.9 °C (107.4 °F)	Kiskunhalas	2007-07-20 ^[57]
 Iceland	30.5 °C (86.9 °F)	Teigarhorn, Djúpvogur	1939-06-22 ^[58] ^[59]
 Ireland	33.3 °C (92 °F)	Kilkenny Castle, County Kilkenny	1887-06-26 ^[60]
 Italy	47 °C or 48.5 °C (116.6 or 119.3 °F)	Foggia, Apulia or Catenanuova, Sicily (Catenanuova's record is disputed)	2007-06-25 and 1999-08-10 ^[46]
 Latvia	36.4 °C (97.5 °F)	Daugavpils	1943-08-04 ^[61]
 Lithuania	37.5 °C (99.5 °F)	Zarasai, Utena County	1994-07-30 ^[62]
 Macedonia	45.7 °C(114.26 °F)	Demir Kapija, Demir Kapija Municipality	2007-07-24 ^[63]
 Malta	43.8 °C (110.84 °F)	Malta International Airport	1999-08-09 ^[64]
 Moldova	42.4 °C(108.3 °F)	Falesti	2012-08-07 ^[14]
			2007-08-16 & 2012-

 Montenegro	44.8 °C (112.6 °F)	Podgorica & Danilovgrad	08-08 ^[14]
 Netherlands	38.6 °C (102 °F)	Warnsveld	1944-08-23 ^[65]
 Norway	35.6 °C (96.1 °F)	Nesbyen, Buskerud	1970-06-20 ^[66]
 Poland	40.2 °C (104.4 °F)	Record measured on German territory at that time: Proskau, Landkreis Oppeln, Oberschlesien (now Prószków, Opole Voivodeship)	1921-07-29 ^[67]
 Portugal	47.4 °C (117.3 °F)	Amareleja, Beja	2003-08-01 ^[68]
 Romania	44.5 °C (112.1 °F)	Ion Sion, Brăila County	1951-08-10 ^[69]
 Russia (European part only)	45.4 °C (113.7 °F)	Utta, Kalmykia	2010-07-12 ^[70]
 Serbia	44.9 °C (112.8 °F)	Smederevska Palanka, Podunavlje District	2007-07-24 ^[71]
 Slovakia	40.3 °C (104.5 °F)	Hurbanovo	2007-07-20 ^[11]
 Slovenia	40.8 °C (105.4 °F)	Cerklje ob Krki	2013-08-08 ^[72]
 Spain	47.2 °C (116.9 °F)	Murcia	1994-07-04 ^[73]
 Sweden	38.0 °C (100.4 °F)	Ultuna, Uppsala County / Målilla, Kalmar County	1933-07-09 / 1947-06-29 ^[74]
 Switzerland	41.5 °C (106.7 °F)	Grono, Moesa District	2003-08-11 ^[75]
 Ukraine	42.0 °C (107.6 °F)	Luhansk	2010-08-12 ^[76]
 United Kingdom  England	38.5 °C (101.3 °F)	Faversham, Kent	2003-08-10 ^[77]
 Northern Ireland	30.8 °C (87.4 °F)	Knockarevan, County Fermanagh / Belfast, County Antrim	1976-06-30 / 1983-07-12 ^[77]
 Scotland	32.9 °C (91.2 °F)	Greycrook, Scottish Borders	2003-08-09 ^[77]
 Wales	35.2 °C (95.4 °F)	Hawarden Bridge, Flintshire	1990-08-02 ^[77]
Antarctica	15 °C (59 °F)	Vanda Station, Scott Coast	1974-01-05 ^[32]
South Pole	−12.3 °C (9.9 °F)	Amundsen-Scott South Pole Station	2011-12-25 ^[78]

*Temperature reached on multiple occasions; this is the most recent.

†There are a few reports of temperatures higher than this during phenomena known as heat bursts, including a report of 87 °C (188 °F) in Abadan, Iran in June 1967. These temperatures have never been confirmed, and are not recognized as world records.^[79] The former highest official temperature on Earth, held for 90 years by ‘Aziziya, Libya, was de-certified by the WMO (World Meteorological Organization) in January 2012 as the record for the world's highest surface temperature (this temperature of 57.8 °C (136 °F), registered on September 13, 1922, is currently considered to have been a recorder's error).^[80] Christopher C. Burt, the weather historian writing for Weather Underground who shepherded the Libya reading's 2012 disqualification, believes that the 1913 Death Valley reading is "a myth", and is at least four or five degrees Fahrenheit too high,^[4] as do other weather historians Dr. Arnold Court and William Taylor Reid.^[81] Burt

proposes that the highest reliably recorded temperature on Earth is still at Death Valley, but is instead 53.9 °C (129 °F) recorded five times: 20 July 1960, 18 July 1998, 20 July 2005, 7 July 2007, and 30 June 2013.^{[82][83]}

‡On 16 January 1889, a temperature of 53 °C (128 °F) was recorded at Cloncurry, Queensland. It was measured with a non-standard thermometer, so it is unknown if this reading was valid or not.^[32] The reading is not recognised by Australia's Bureau of Meteorology.^[33]










**The Israeli Met Office pursued an investigation of the record in 2012 (prompted by an inquiry from the WMO and wunderground's weather historian Christopher C. Burt), and concluded that the record was valid. However, they have refused to make public the details leading to their conclusions, and until they do so, the record remains suspect.^[14]

Other high-temperature records

- **Fastest temperature rise:** 27 °C (49 °F) in two minutes; Spearfish, South Dakota, 1943-01-22.^[84]
- **Most consecutive days above 100 °F (37.8 °C):** 160 days; Marble Bar, Western Australia from 31 October 1923 to 7 April 1924.^[85]

Cold

Lowest temperatures ever recorded

Country/Region	Temperature	Town/Location	Date
World Antarctica	−89.2 °C (−128.6 °F)	Vostok Station	1983-07-21 ^{[32][84][86]}
Dome A	−82.5 °C (−116.5 °F)	Dome A	2005-07 ^[87]
South Pole	−82.8 °C (−117.0 °F)	Amundsen-Scott South Pole Station	[88]
Asia  Russia	−68 °C (−90 °F)	Verkhoyansk and Oymyakon, both in Sakha Republic	1892-02-07 1933-02-06 ^[32]
 Bangladesh	2.8 °C (37.0 °F)	Sreemangal	1968-?-? [89]
 China	−52.3 °C (−62.1 °F)	Mohe County	1969-02-13 ^[90]
 India	−50 °C (−58 °F)/ −33.9 °C (−29.0 °F)	Dras, Ladakh	January ??/1911-03-22 ^[91]
 Iran	−36 °C (−32.8 °F)	Saqqez	1969 ^[92]
 Iraq	−17.6 °C (0.4 °F)	Mosul, Ninawa Governorate	1911-01-24 ^[93]
 Israel	−13.7 °C (7.3 °F)	Beit Netofa Valley	1950-02-07 ^[94]
 Japan	−41.0 °C (−41.8 °F)	Asahikawa, Hokkaidō	1902-01-25 ^[23]
 Malaysia	7.8 °C (46.0 °F)	Cameron Highlands	

			1978-02-01 ^[24]
 Nepal	−45.0 °C (−49.0 °F)	Mt. Everest, Sagarmatha	1999-05-15 ^[23]
 North Korea	−43.6 °C (−46.5 °F)	Chunggangjin	1933-01-12 ^[95]
 Pakistan	−26 °C (−15 °F)	Astore, Gilgit-Baltistan	? ^[15]
 Philippines	2 °C (36 °F)	Mount Pulag, Mountain Province	2011-01 ^[96]
 Thailand	−1.4 °C (29.5 °F)	Sakon Nakhon	1974-01-02 ^[30]
 Turkey	−46.4 °C (−51.5 °F)	Van	1990-01-09 ^[31]
North America  Greenland	−66.1 °C (−87.0 °F)	North Ice	1954-01-09 ^[32]
 Canada	−63 °C (−81 °F)	Snag, Yukon	1947-02-03 ^[32] ^[84]
 Mexico	−32 °C (−25.6 °F)	Santa Barbara, Durango	1999 ^[97]
 United States	−62 °C (−80 °F)	Prospect Creek, Alaska	1971-01-23 ^[98]
Europe  Russia (European part only)	−58.1 °C (−72.6 °F)	Ust' Shchugor	1978-12-31 ^[45]
 Albania	−27.5 °C (−17.5 °F)	Voskopojë	1967-01-27
 Austria	−52.6 °C (−62.9 °F)	Grünloch doline	1932-02-19 ^[99]
 Belarus	−42.2 °C (−44.0 °F)	Slavnom, Vitsebsk Voblast	1940-01-17 ^[100]
 Belgium	−30.1 °C (−22.2 °F)	Valley of the Lesse in Rochefort	1940-01-20 ^[101]
 Bosnia and Herzegovina	−42 °C (−44 °F)	Veliko Polje on the Igman plateau	1963-01-24 ^[citation needed]
 Bulgaria	−38.3 °C (−37 °F)	Tran	1947-01-25 ^[48]
 Croatia	−35.5 °C (−31.5 °F)	Čakovec	1929-02-03 ^[49]
 Czech Republic	−42.2 °C (−44.0 °F)	Litvínovice	1929-02-11 ^[50]
 Denmark	−31.2 °C (−24.2 °F)	Thisted Municipality, North Denmark Region	1982-01-08 ^[51]
 Estonia	−43.5 °C (−46.0 °F)	Jõgeva, Jõgeva County	1940-01-17 ^[52]
 Finland	−51.5 °C (−60.7 °F)	Kittilä, Lapland	1999-01-28 ^[102]
 France	−41.0 °C (−41.8 °F)	Mouthe, Doubs	1985-01-17 ^[103]
 Germany	−37.8 °C (−36.0 °F)	Hüll, Ortsteil von Wolnzach Landkreis Pfaffenhofen an der Ilm / Oberbayern	1929-12-02 ^[104]
 Greece	−27.8 °C (−18.0 °F)	Ptolemaida	1967-01-27 ^[105]
 Hungary	−35.0 °C (−31.0 °F)	Görömbölytapolca	1940-02-16 ^[57]
 Iceland	−37.9 °C (−36.2 °F)	Grímsstaðir	1918-01-21 ^[58]

 Ireland	−19.1 °C (−2.4 °F)	Markree Castle, County Sligo	1881-01-16 ^[60]
 Italy	−49.6 °C (−57.2 °F)	Busa Fradusta, Pale di San Martino	2013-02-10 ^[106]
 Latvia	−43.2 °C (−45.8 °F)	Daugavpils	1956-02-08 ^[61]
 Lithuania	−42.9 °C (−45.2 °F)	Utena, Utena County	1956-02-01 ^[62]
 Macedonia	−31.5 °C (−24.7 °F)	Berovo, Berovo Municipality	1954-01-27 ^[107]
 Malta	1.4 °C (34.5 °F)	Malta International Airport	1981-01-29 ^[64]
 Netherlands	−27.4 °C (−17.3 °F)	Winterswijk	1942-01-27 ^[65]
 Norway	−51.4 °C (−60.5 °F)	Karasjok, Finnmark	1886-01-01 ^[66]
 Poland	−41.0 °C (−41.8 °F)	Siedlce, Masovian Voivodeship	1940-01-11 ^[67]
 Portugal	−16.0 °C (3.2 °F)	Penhas da Saúde, Covilhã Municipality Miranda do Douro	1945-01-16 and 1954-02-05 ^[108]
 Romania	−38.5 °C (−37.3 °F)	Bod, Braşov County	1942-01-25 ^[69]
 Serbia	−39.5 °C (−39.1 °F)	Karajukica Bunari, Zlatibor District	1985-01-13 ^[71]
 Slovakia	−41.0 °C (−41.8 °F)	Vígľaš-Pstruša	1929-02-11 ^[109]
 Slovenia	−34.5 °C (−30.1 °F)	Babno Polje	1956-02-15 / 1956-02-16 / 1968-01-13 ^[notes 1] ^[110]
 Spain	−32.0 °C (−25.6 °F)	Lago Estangento, Lleida	1956-02-02 ^[73]
 Sweden	−53.0 °C (−63.4 °F)	Malgovik, Västerbotten County	1941-12-13 ^[74]
 Switzerland	−41.8 °C (−43.2 °F)	La Brévine	1987-01-12 ^[75]
 Ukraine	−41.9 °C (−43.4 °F)	Luhansk	1935-02-08 ^[111]
 United Kingdom  Scotland	−27.2 °C (−17.0 °F)	Braemar, Aberdeenshire Altnaharra, Sutherland	1895-02-11 and 1982-01-10 1995-12-30 ^[77]
 England	−26.1 °C (−15.0 °F)	Newport, Shropshire, West Midlands	1982-01-10 ^[77]
 Northern Ireland	−18.7 °C (−1.7 °F)	Castleberg, County Tyrone	2010-12-24 ^[112]
 Wales	−23.3 °C (−9.9 °F)	Rhayader, Powys	1940-01-21 ^[77]
South America  Argentina	−39 °C (−38 °F)	Valle de los Patos Superior, San Juan	1972-07-17 ^[113] ^[114]
 Bolivia	−25.7 °C (−14.3 °F)	Uyuni, Potosí Department	1946-08-04 ^[115]
 Brazil	−14 °C (7 °F)	Caçador, Santa Catarina	1952-06 ^[116] ^[117]
 Chile	−37 °C (−35 °F)	Coyhaique Alto, Aisén	2002-06-21 ^[118]
 Paraguay	−7.5 °C (18.5 °F)	Pratts Gill, Boquerón	2000-07-13 ^[119]

		Department	
 Peru	−25.2 °C (−13.4 °F)	Mazo Cruz, Puno Region	1966-06-30 ^[120]
 Uruguay	−11 °C (12 °F)	Melo, Cerro Largo Department	1967-06-14 ^[39]
 Venezuela	−12 °C (10 °F)	Piedras Blancas, Merida State	? ^[11]
Africa			
 Morocco	−24 °C (−11 °F)	Ifrane	1935-02-11 ^[32]
 Algeria	−20 °C (−4 °F)	Batna, Batna Province	1945-01-04 ^[121]
 Ethiopia	−7.5 °C (18.5 °F)	Alemaya	2005-?-? ^[121]
 Lesotho	−20.4 °C (−4.7 °F)	Letseng-la-Draai (Letseng-la-Terae), Mokhotlong District	1967-06-12 ^[121]
 South Africa	−18.6 °C (−1.5 °F)	Buffelsfontein, near Molteno, Eastern Cape	1996-06-28 ^[16]
Oceania			
 New Zealand	−25.6 °C (−14.1 °F)	Ranfurly, Central Otago	1903-07-18 ^[122]
 Australia	−23 °C (−9.4 °F)	Charlotte Pass, New South Wales	1994-06-29 ^[123]
Central America and Caribbean Islands			
 Guatemala	−11.5 °C (11.3 °F)	Olintepeque, Quetzaltenango	? ^[40]
 Dominican Republic	−3.5 °C (25.7 °F)	Valle Nuevo, Constanza	1959-03-02 ^[124]
 Cuba	0.6 °C (33.1 °F)	Bainoa, Mayabeque Province	1996-02-18 ^[125]
 Puerto Rico	4.4 °C (40 °F)	Adjuntas Aibonito Corozal	1989-12-28 ^[126] 1906-02-26 ^[126] 1945-01-19 ^[126]

§This temperature is considered the lowest ever officially recorded in Antarctica and in the World, as it was perceived by ground-positioned thermometers in 1983. However, there were satellite-made analysis realized in August 10, 2010 that pointed a temperature of −93.2 °C (−135.8 °F) near Dome F in Queen Maud Land. This record is not officially listed because it was measured by remote sensing methods that are not totally consistent, unlike the 1983 temperature. See Lowest temperature recorded on Earth for details.

Other low-temperature records

- **Fastest temperature drop:** 27.2 °C (49 °F) in 15 minutes; Rapid City, South Dakota, 1911-01-10.^[84]

Precipitation

- **Least per year (locale):** 0.2 millimetres (0.0079 in) per year or less, Quillagua, Antofagasta Region, Chile.^[127]

Rain

- **Most in one minute:** 38 mm (1.5 in); Barot, Guadeloupe, 26 November 1970.^[128]
- **Most in one hour:** 305 mm (12.0 in) in 42 minutes. Holt, Missouri, United States, 22 June 1947.^[45]
- **Most in 12 hours:** 1,144 mm (45.0 in); Foc-Foc, Réunion, 8 January 1966, during tropical cyclone Denise.^[45]
- **Most in 24 hours:** 1,825 mm (71.9 in); Foc-Foc, Réunion, 7–8 January 1966, during tropical cyclone Denise.^[45]
- **Most in 48 hours:** 2,467 mm (97.1 in); Aurère, Réunion, 8–10 January 1958.^[45]
- **Most in 72 hours:** 3,929 mm (154.7 in); Commerson, Réunion, 24–26 February 2007.^[45]
- **Most in 96 hours:** 4,869 mm (191.7 in); Commerson, Réunion, 24–27 February 2007.^[45]
- **Most in one year:** 26,470 mm (1,042 in); Cherrapunji, India, 1860–1861.^[45]
- **Highest average annual total:** 11,872 mm (467.4 in); Mawsynram, India.^[45]

Snow

- **Most in one-year period:** 31.5 meters (102 ft); Mount Rainier, Washington, United States, 19 February 1971 to 18 February 1972.^[84]
- **Most in one season (1 July – 30 June):** 29.0 meters, (95 ft); Mount Baker, Washington, United States, 1998 through 1999.^[129]
- **Largest snowflake ever observed:** 38 centimeters (15 in) in diameter; Fort Keogh, Montana, United States, 28 January 1887.^[84]

Wind speed

- **Fastest ever recorded:** 484±32 km/h (301±20 mph) 3-second gust; Observed by a DOW (Doppler On Wheels) radar unit in a tornado near Oklahoma City, Oklahoma on 3 May 1999.^[130]
- **Fastest recorded with an anemometer:** 113.2 m/s or 407 km/h (253 mph) 3-second gust; one of five extreme gusts during a series of 5-min time periods; Barrow Island (Western Australia), 10 April 1996, during Cyclone Olivia.^[131]
- **Fastest recorded with an anemometer outside of a tropical cyclone:** 372 km/h (231 mph) sustained 1-minute average; Mount Washington, New Hampshire, 12 April 1934.^[132]
- **Fastest daily average:** 174 km/h (108 mph); Port Martin (Adélie Land), Antarctica, 24-hour period from 21 March 1951 to 22 March 1951.^[84]

Tornadoes

Main article: Tornado records

Deadliest in history

- **On Earth:** Approximately 1300 deaths; Manikganj District, Bangladesh on 26 April 1989.^[133]
- **In North America:** 695 deaths (Tri-State Tornado); Missouri, Illinois, Indiana, United States 18 March

1925.^[84]

- **In Europe:** 600 or more (Grand Harbour Tornado); Valletta, Malta, 23 September 1551 or 1556 (sources conflict)^[134]
- **In Australia:** Three deaths, Kin Kin, Queensland tornado, 14 August 1971^[135]

Outbreaks

- **Largest and most severe:** The April 25–28, 2011 tornado outbreak: 209 confirmed tornadoes occurred in a span of 24 hours. They affected six US states, and included 11 EF4s and 4 EF5s.^[136]

Tropical cyclones

Main article: List of tropical cyclone records

Most intense (by minimum surface air pressure)

- **Most intense ever recorded:** 870 mbar (25.63 inHg); eye of Super Typhoon Tip over the Pacific Ocean, 12 October 1979.^[84]
- **Most intense in the Western Hemisphere:** 882 mb (26.05 inHg); eye of Hurricane Wilma, 19 October 2005.^[137]
- **Most intense ever recorded on land:** 892 mb (26.35 inHg); Craig's Key, Florida, eye of the Labor Day Hurricane, 2 September 1935. While other landfalling tropical cyclones potentially had lower pressures, data is vague from areas other than the Atlantic basin, especially before the invention of weather satellites.^[138]

Other severe weather

Hail

- **Heaviest officially recorded:** 1.02 kg (2.25 lb); Gopalganj District, Bangladesh, 14 April 1986.^[139]
- **Largest diameter officially measured:** 20 cm (8.0 in) diameter, 47.3 cm (18.625 in) circumference; Vivian, South Dakota, 23 July 2010.^[140]
- **Largest circumference officially measured:** 47.6 cm (18.75 in) circumference, 18 cm (7.0 in) diameter; Aurora, Nebraska, 22 June 2003.^{[139][141]}

Lightning

- **Longest lightning bolt:** 190 km (120 mi) 13 October 2001.^[142]



The Tri-State Tornado holds many records, including the longest known tornado track, fastest speed for a significant tornado, and the deadliest tornado outside of Bangladesh.



A picture of the Aurora, Nebraska hailstone, measured at 47.6 cm (18.75 in) in circumference

- **Most strikes per year:** More than 70 per km² in parts of Central Africa, especially the Democratic Republic of the Congo.^[143]

Other categories

- **Highest air pressure ever recorded (above 750 meters):** 1084.4 hPa (32.03 inHg); Tosontsengel, Khövsgöl Province, Mongolia, 19 December 2001.^[144] This is the equivalent sea-level pressure; Tosontsengel is located at 1,300 metres (4,300 ft) above sea level. The highest adjusted-to-sea-level barometric pressure ever recorded (below 750 meters) was at Agata, Evenhiyskiy, Russia (66°53′N, 93°28′E, elevation: 261 m (856.3 ft)) on 31 December 1968 of 1,083.3 hectopascals (hPa) (31.99 inHg).^[145] The discrimination is due to the problematic assumptions (assuming a standard lapse rate) associated with reduction of sea level from high elevations.^{[144][145]}

See also

- Extremes on Earth
- List of extreme temperatures in Canada
- UK rainfall records
- U.S. state temperature extremes
- Weather extremes in Canada
- 2013 extreme weather events

Notes

- [^] The lowest unofficially measured temperature in Slovenia was recorded at Komna on 9 January 2009 and reached −49 °C (−56 °F).

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External links

- National Climate Extremes Committee (<http://www.ncdc.noaa.gov/oa/climate/monitoring/extremes/ncec.html>)
- Global Weather & Climate Extremes (<http://wmo.asu.edu/>) (Arizona State University)

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