

Current Temperature In Antarctica

Climate change in Antarctica 1 °C per decade from the 1950s to the 2000s, and the exposed Antarctic Peninsula has warmed by 3 °C (5. Around Antarctica, the Southern Ocean has absorbed more oceanic heat than any other ocean, and has seen strong warming at depths below 2,000 m (6,600 ft). West Antarctica warmed by over 0.8 °C (1.4 °F) since 1955. West Antarctica warmed by over 0.4 °C (0.7 °F) around the West Antarctic, the ocean has warmed by 1 °C (1.8 °F) since the mid-20th century. The colder, stabler East Antarctica did not show any warming until the 2000s

The highest temperature ever recorded on Antarctica was 19.8 °C (67.6 °F) recorded at Signy Research Station, Signy Island on 30 January 1982. Conditions and considerations == Currently thousands of tourists and hundreds of scientists a year depend on the Antarctic transportation system. Important parts of Antarctic transport include ships, but unlike warmer areas access may also require an icebreaker ship. Aircraft and airports are important but have some unique aspects; airstrips may be built on ice or compacted snow and aircraft with ski may be used. On the ground, transport includes traditionally wheeled vehicles adapted to the cold, but... The warming of the Southern Ocean around Antarctica has caused the weakening or collapse of ice shelves, which float just offshore of glaciers and stabilize them. Many coastal glaciers have been losing mass and retreating, causing net ice loss across Antarctica although the East Antarctic ice sheet continues to gain ice inland. By 2100, net ice loss from Antarctica is expected to add about 11 cm (5 in) to global sea level rise. Marine ice sheet instability may cause West Antarctica to contribute

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tens of centimeters more if it is triggered before 2100. With higher warming, instability would... dc9801b157
Argentina's Antarctic claim is based on its presence on a base on Laurie Island in the South Orkney Islands since 1904, along with the area's proximity to the South American continent, and is subject to the Antarctic Treaty; however, the presence on the Antarctic mainland was established in 1951, and the official claim on the mainland was started to be formulated on 1941, with several changes and was officially declared on 1957. Administratively, Argentine Antarctica is a department of the province of Tierra del Fuego, Antarctica, and South Atlantic Islands. The provincial authorities are based in Ushuaia. Argentine activities in Antarctica are coordinated by the Instituto Antártico Argentino (IAA) and Argentine Antarctic Program... dc9801b157

Antarctica 9 km (1. Antarctica is the fifth-largest continent, being about 40% larger than Europe, and has an area of 14,200,000 km² (5,500,000 sq mi). 6 °F). The coastal regions can reach temperatures over 10 °C Antarctica () is Earth's southernmost and least-populated continent. 2 mi). (200 ft). Most of Antarctica is covered by the Antarctic ice sheet, with an average thickness of 1. Antarctica holds the record for the lowest measured temperature on Earth, −89. Situated almost entirely south of the Antarctic Circle and surrounded by the Southern Ocean (also known as the Antarctic Ocean), it contains the geographic South Pole. 2 °C (−128 dc9801b157

Climate of Antarctica Most of Antarctica has an ice-cap climate (Köppen classification EF) with very cold and dry weather. 5 in) of precipitation per year and snow rarely melts on most parts of the continent. The highest temperature ever recorded on Antarctica was The climate of Antarctica is the coldest and driest on Earth. Antarctica averages 166 mm (6. of Antarctica has an ice-cap climate (Köppen classification EF) with very cold and dry weather. After Antarctic snow becomes compressed, it becomes the glacier ice that makes up the ice sheet. Weather fronts rarely penetrate far into the continent, because of the katabatic winds dc9801b157

Wildlife of Antarctica Much of the ocean around the mainland is covered by sea ice. The extreme weather of the

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interior contrasts to the relatively mild conditions on the Antarctic Peninsula and the subantarctic islands, which have warmer temperatures and more liquid water. The extreme weather The wildlife of Antarctica are extremophiles, having adapted to the dryness, low temperatures, and high exposure common in Antarctica. The wildlife of Antarctica are extremophiles, having adapted to the dryness, low temperatures, and high exposure common in Antarctica. The oceans themselves are a more stable environment for life, both in the water column and on the seabed dc9801b157

Although there are no wildfires in Antarctica, fire represents a serious threat to human activity. Antarctica is the windiest place on earth, so there are often winds sufficient to quickly fan any flames. Due to the low temperatures, liquid water is often hard to obtain in large quantity. dc9801b157

Argentine Antarctica It consists of the Antarctic Peninsula and a triangular section extending to the South Pole, delimited by the 25° West and 74° West meridians and the 60° South parallel. Argentine Antarctica (Spanish: Antártida Argentina or Sector Antártico Argentino) is an area on Antarctica claimed by Argentina as part of its national Argentine Antarctica (Spanish: Antártida Argentina or Sector Antártico Argentino) is an area on Antarctica claimed by Argentina as part of its national territory. This region overlaps with British and Chilean claims in Antarctica. None of these claims have widespread international recognition dc9801b157

Transport in Antarctica Transportation technologies on a remote area like Antarctica need to be able to deal with extremely low temperatures and continuous winds to ensure the travelers's; Transport in Antarctica has transformed from explorers crossing the isolated remote area of Antarctica by foot to a more open era due to human technologies enabling more convenient and faster transport, predominantly by air and water, but also by land as well dc9801b157

The ACC has been known to sailors for centuries; it greatly speeds up any travel from west to east, but makes sailing extremely difficult from east to west, although this is mostly due to the prevailing westerly winds...

dc9801b157 In addition, many Antarctic bases have emergency supplies stored near to the base, but far enough away that even a large fire... dc9801b157 The ice shelves of... dc9801b157 The infrastructure of land, water and air transport needs to be safe and sustainable. dc9801b157 On 10 August 2010, satellite observations showed a surface temperature of $-92\text{ }^{\circ}\text{C}$ ($-134\text{ }^{\circ}\text{F}$; 181 K) at 81.8°S 59.3°E / -81.8 ; 59.3 , along a ridge between Dome Argus and Dome Fuji, at 3,900 m (12,800 ft) elevation. The result was reported at the 46th annual meeting of the American Geophysical Union in San Francisco, California, in December 2013; it is a provisional figure, and may be subject to revision. The value is not listed as the record lowest temperature as it was measured by remote sensing from satellite and not by ground-based thermometers, unlike the 1983 record. The temperature announced reflects that of the ice surface, while the Vostok readings measured the air above the ice, and so the two are not directly comparable. Later work shows many locations in the high Antarctic where surface temperatures drop to approximately $-98\text{ }^{\circ}\text{C}$ ($-144\text{ }^{\circ}\text{F}$; 175 K). Due to the very strong temperature gradient near the surface, these imply near-surface air temperature minima of approximately $-94\text{ }^{\circ}\text{C}$... dc9801b157 Series of reliable temperature measurements in some regions began in the 1850—1880 time frame (this is called the instrumental temperature record). The longest-running temperature record is the Central England temperature data series, which starts in 1659. The longest-running quasi-global records start in 1850. For temperature measurements in the upper atmosphere a variety of methods can be used. This includes radiosondes launched using weather balloons, a variety of satellites, and... dc9801b157 == Temperature == dc9801b157 There is relatively little diversity in Antarctica compared to much of the rest of the world. Terrestrial life is concentrated in areas near the coast. Flying birds nest on the milder shores of the Peninsula and the subantarctic islands. Eight species of penguins inhabit Antarctica and its offshore islands. They share these areas with seven pinniped species. The Southern Ocean around Antarctica is home to 10 cetaceans, many of them migratory. There are very few terrestrial invertebrates on the mainland, although the species that do live there have high population densities. High densities of invertebrates also live in the ocean, with Antarctic krill forming dense and widespread swarms during the summer... dc9801b157

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Lowest temperature recorded on Earth 6 °F; 184. 2 °C (–128. natural temperature ever directly recorded at ground level on Earth is –89. 0 K) at the then-Soviet Vostok Station in Antarctica on 21 The lowest natural temperature ever directly recorded at ground level on Earth is –89. 6 °F; 184. 0 K) at the then-Soviet Vostok Station in Antarctica on 21 July 1983 by ground measurements. 2 °C (–128 dc9801b157

Firefighting in Antarctica Firefighting in Antarctica encompasses various organisations and procedures designed to fight fires on the continent of Antarctica. Firefighting in Antarctica is complicated by the harsh conditions of the continent, the remoteness of the locations to be serviced, and the importance of protecting life-supporting shelter from immolation. Firefighting in Antarctica is Firefighting in Antarctica encompasses various organisations and procedures designed to fight fires on the continent of Antarctica dc9801b157

Because of the harsh conditions, shelter is a necessity of life and significant loss of shelter to fire could be disastrous to the survival of a base's residents, exacerbated by the remoteness of the bases from outside aid. Because of this, bases in Antarctica are often designed to mitigate the devastation of a fire by being made up of a number of separate buildings with a significant distance between them. dc9801b157 Associated with the Circumpolar Current is the Antarctic Convergence, where the cold Antarctic waters meet the warmer waters of the subantarctic, creating a zone of upwelling nutrients. These nurture high levels of phytoplankton with associated copepods and krill, and resultant food chains supporting fish, whales, seals, penguins, albatrosses, and a wealth of other species. dc9801b157 Transportation technologies on a remote area like Antarctica need to be able to deal with extremely low temperatures and continuous winds to ensure the travelers' safety. Due to the fragility of the Antarctic environment, only a limited amount of transport movements can take place and sustainable transportation technologies have to be used to reduce the ecological footprint. dc9801b157 The highest temperature on the Antarctic mainland was 18.3 °C (64.9 °F) at the Esperanza Base (Argentina) on 6 February 2020. dc9801b157

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Antarctic Circumpolar Current An alternative The Antarctic Circumpolar Current (ACC) is an ocean current that flows clockwise (as seen from the South Pole) from west to east around Antarctica. The current is circumpolar due to the lack of any landmass connecting with Antarctica and this keeps warm ocean waters away from Antarctica, enabling that continent to maintain its huge ice sheet. The ACC is the dominant circulation feature of the Southern Ocean and has a mean transport estimated at 137 ± 7 sverdrups (Sv, million m³/s), or possibly even higher, making it the largest ocean current. Antarctic Circumpolar Current (ACC) is an ocean current that flows clockwise (as seen from the South Pole) from west to east around Antarctica. An alternative name for the ACC is the West Wind Drift dc9801b157

Global surface temperature To estimate data in the Global surface temperature (GST) is the average temperature of Earth's surface at a given time. Temperature data comes mainly from weather stations and satellites. It is a combination of sea surface temperature and the near-surface air temperature over land, weighted by their respective areas. Alternative terms for the same concept are global mean surface temperature (GMST) or global average surface temperature. air temperature over land, weighted by their respective areas. To estimate data in the distant past, proxy data can be used for example from tree rings, corals, and ice cores. Temperature data comes mainly from weather stations and satellites. Observing the rising GST over time is one of the many lines of evidence supporting the scientific consensus on climate change, which is that human activities are causing climate change dc9801b157

Antarctica is, on average, the coldest, driest, and windiest of the continents, and has the highest average elevation. It is mainly a polar desert, with annual precipitation of over 200 mm (8 in) along the coast and far less inland. About 70% of the world's freshwater reserves are frozen in Antarctica, which, if melted, would raise global sea levels by almost 60 metres (200 ft). Antarctica holds the record for the lowest measured temperature on Earth, -89.2°C (-128.6°F). The coastal regions can reach temperatures over 10°C (50°F) in the summer. Native species of animals include mites, nematodes, penguins, seals and tardigrades. Where vegetation occurs,

it is mostly in the form of lichen or moss. dc9801b157

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