



## **Tropical wet climate zone definition**

Humid Tropical Climate (Group A) is found in the band about 15° to 25° N and S from the equator. What climatic characteristics are possible for tropical humid climate groups? Temperature: Intense sunlight; each month has an average temperature of at least 18 °C (64 °F). Rainfall: Abundant, at least 150 cm (59 inches) per year. Wet tropics have almost no annual temperature variation and exceptional amounts of rain throughout the year, between 175 and 250 cm (65 and 100 inches). These conditions support the biome of tropical rainforests. Tropical rainforests are dominated by dense and vast spruce trees. These rainforests have the highest number of species or biodiversity of any ecosystem. Tropical Monsoon (Am) Tropical monsoon climate has very low rainfall for one to two months each year. Rainforests grow here due to short dry periods, and trees survive soil moisture. This climate is found where the rainy season winds blow, especially in southern Asia, west Africa, and northeast South America. Tropical climate is located between about 50 and 200 latitudes, around the itcz location. In summer, when ITCZ drifts north, the zone is wet. In winter, when

ITCZ moves towards the equator, the region is dry. This climate exists where strong monsoon winds blow from land to sea, as in India. Rainforests can not survive in the months of low rainfall, so the typical vegetation is savannas. The biome consists mostly of grass, with widespread deciduous trees and rare areas of denser forest. Climate in the tropics Tropical climate location, with subtypes: Af—Tropical rainforest climate, Aw/As—Tropical savanna climate. The tropical climate is one of the five main climate groups in the Köppen climate classification. The tropical climate is characterized by a monthly average temperature of 18 °C (64.4 °F) or higher throughout the year and displays hot temperatures. Annual rainfall is often abundant in tropical climates, and shows seasonal rhythms to various degrees. There are usually only two seasons in tropical climates, rainy seasons and dry seasons. The annual temperature range in tropical climates is usually very small. The sunlight is very strong. There are three basic types of tropical climate groups: tropical climate groups: tropical rainforest climate (Af), tropical rainy season climate (Am) and wet and dry tropical climate or savanna (Aw or USA), which are classification systems. It defines the tropical climate as a region where the average temperature of the coldest month is greater than or up to 19 °C (64.4 °F) and classify it as group A (tropical climate group). [1] Group areas are usually found below 25 latitudes in the southern and northern hemispheres; they include areas around the Equator, Central America and parts of southern America, central Africa, southern Asia and parts of Australia and the Pacific Ocean islands. [2] In Group A, there are three types of climate (Af), tropical rainy season climate (Af), tropical rainy season climate or savanna (Aw or USA). All three climates are classified by their Pdry (short for driest month's rainfall). Pdry's tropical rainforest climate should be greater than or equal to 60 mm (2.4 inches). Tropical monsoon climate pdry should be in the range of 100 - m e a n a n n u a | p r e c i p i t a t i o n 25 {\displaystyle 100-{\tfrac {mean\ annual\ precipitation}{25}}} to 60 mm. Tropical wet and dry or savanna climate Pdry should be less than 100 - m e a n a n n u a l p r e c i p i t a t n n 25 {\displaystyle 100-{\tfrac {mean\ annual\ precipitation}{25}}. [1] Tropical Rainforest Climate Area Tropical Monsoon Tropical Climate Tropical climate usually has only two seasons, rainy season and dry season. Depending on the location of the region, wet and dry seasons are of varying duration. Annual temperatures and abundant rainfall, most plant life grows throughout the year. High temperature and humidity are the most suitable environments for epiphytes to grow. In many tropical climates, vegetation grows layered: shrubs under tall trees, and bushes under tall trees, and bushes under tall trees, and bushes. make up the biome of the tropical climate. Natural vegetation Tropical rainforest vegetation including: Bengal bamboo, bougainvillea, curare, coconut trees, Durian, Banana Tropical monsoon vegetation including: teak, deodar, rosewood, sandalwood and bamboo Tropical wet and dry vegetation or Max average. temperatures in total Rainfall °C in mmSource:[1] Conversion empire JFMAMJJASOND 9.8 84 77 9.4 82 77 9.8 84 77 9.1 84 77 9.8 84 77 9.1 84 77 7.1 84 77 7.1 84 77 7.5 86 77 9.1 84 77 9.1 84 77 Max average. and min. temperatures in °F Total rainfall within inches Köppen Classification identifies tropical rainforest climate (Zone Af: f = feucht, Germany to humid) because it has a latitudinal range north and south of 5-10 degrees from the equator. [6] Tropical rainforest climates have high temperatures: average annual temperatures are between 21°C to 30°C (70°F to 85°F). [7] Rainfall can reach more than 100 inches a year. [7] Seasons are evenly distributed throughout the year, and there is almost no drought period. [6] Areas affected by tropical rainforest climates mainly include the Amazon basin over South America, africa's North Zaire (Congo) basin, and the East Indies islands. [6] Tropical rainforest climates differ from other subtypes of tropical climates because they have more tree species. [8] The large number of trees contributes to climate humidity due to transpiration, which is the process of water disappearing from the surface of living plants into the atmosphere. Abundant warmth and rainfall contribute to the diversity and characteristics of vegetation under tropical rainforest climates. [7] Vegetation and various forms of growth to receive sufficient sunlight, which is unusual under other climatic types. [7] Tropical rainy season climate Miami climate chart (explanation) J F M A M J A S O N D 51 24 15 53 25 16 61 26 18 72 28 20 158 30 22 1 237 31 24 145 32 25 193 32 25 194 31 24 143 29 22 68 27 19 47 25 16 Max average. temperatures in °C Total rainfall in mmSource: [2] Conversion empire JFMAMJJASOND 2 75 59 2.1 76 60 2.4 79 64 2.9 82 68 6.2 85 72 9. 3 88 75 5.7 89 76 7.6 89 77 7.6 88 76 5.6 85 72 2.7 80 67 1.8 77 62 Max average. temperature in °F Total rainfall in inches Köppen classification tool identifies tropical rainy season climate as it has a small annual temperature range, high temperatures, and abundant rainfall. This climate also has a short dry season that occurs in winter. [9] Tropical rainy season climates are commonly found in countries in south and Tropical Cancer. These areas include India, the Philippines, the northern coast of Australia and China's Hainan Island. The annual temperature of the region under the tropical rainy season climate is stable. The tropical rainy season climate has the following main characteristics. Tje annual temperature is 27.05 °C (80.69 °F) and has an annual temperature range of 3.6°C (2°F). [10] The difference between wet seasons and droughts is that tropical rainy climates differ from other tropical climates due to their uneven rainfall throughout the year. Heavy rainfall in summer, and short droughts occur in winter. This climate has an annual total rainfall of 3409.2mm, and summer rainfall of 3115.9mm and winter rainfall of 293.3mm. [10] There are three main seasons of tropical rainy season climate: the cold dry season is from October to February, the dry season is hot from March to mid-June and the rainy season is from mid-June to September. [11] Tropical rainforest consists mainly of three layered structures. The first layer is the soil layer which is a very dense layer of shrubs. The second layer is the lower layer with a tree about 15 meters high. The upper layer is called a canopy tree that has trees from 25 to 30 meters high and the trees grow tightly. [Citation needed] Brasília, Brazil Climate chart (explanation) J F M A M J A S O N D 241 27 17 215 27 17 189 27 18 124 27 17 39 26 15 8 8 25 13 12 25 13 12 25 13 12 25 13 12 25 13 12 27 15 52 28 16 172 28 17 238 27 18 249 26 18 Max average, and min. temperatures in total Rainfall °C in mmSource: [3] Conversion empire JFMAMJJASOND 9.5 80 63 8.5 80 63 7.4 81 64 4.9 80 62 1.5 78 59 0.377 56 0.5 77 55 0.5 81 58 2 83 61 6.8 82 63 9.4 80 64 9.8 79 64 Max average. temperatures in °F Total rainfall within inches Tropical savanna climates are mainly located between 10° and 20° latitudes north-south, and often occur in the outer margins of the tropics. Typical regions include central Africa, parts of South America, as well as northern and eastern Australia. [12] The temperature range of savanna climates is between 20°C to 30°C (68°F - 86°F). In summer, the temperature is between 25 °C - 30 °C, while in winter the temperature is between 20 °C - 30 °C. [13] Annual rainfall is between 700 to 1000 mm. The driest months are from November to March and they have less than 60 mm of rainfall. Areas under the savanna climate usually have land covered with flat meadow vegetation. The meadow biome covers almost 20% of the Earth's surface. [14] Types of meadow vegetation include Rhodes grass, red wheat grass, star grass, and lemongrass. [15] References ^ a b Kottek, Mark; Grieser, Jürgen; Beck, Christoph; Rudolf, Bruno; Ruble, Franz (2006-07-10). The World Map of the Köppen-Geiger climate classification is updated. Zeitschrift. 15 (3): 259–263. doi:10.1127/0941-2948/2006/0130. ISSN 0941-2948. ^ Köppen-Geiger climate classification world map. ^ Blue Planet Biomes - Biome Rainforest. www.blueplanetbiomes.org. Retrieved 2020-04-03. ^ Society, National Geography (2019-10-24). Köppen Climate Classification System. 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