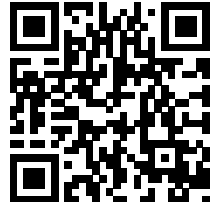


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# Longitude Lines in Maps



Understanding the world requires knowing about \_\_\_\_\_ and longitude. These invisible lines help us navigate and understand the Earth's geography. Latitude lines run east to \_\_\_\_\_ but measure how far north or south you are from the Equator. Longitude lines, on the other hand, run from the \_\_\_\_\_ pole to the south pole, measuring how far east or west you are from the Prime Meridian, which is located in \_\_\_\_\_, England.

The concept of longitude is crucial for navigation. Before accurate \_\_\_\_\_ measurements, sailors struggled to determine their precise location at \_\_\_\_\_, leading to navigation errors. The invention of the marine \_\_\_\_\_ in the 18th century allowed sailors to calculate their longitude by knowing the exact \_\_\_\_\_ at a reference point and comparing it to the local time at sea, determined by the position of the \_\_\_\_\_.

Maps use both latitude and longitude to create a grid system, allowing anyone to pinpoint a precise location anywhere on the \_\_\_\_\_. This system is essential not only for explorers and travelers but also for various \_\_\_\_\_ that rely on accurate positioning, like GPS systems in our phones and \_\_\_\_\_.

While latitude lines are parallel and stay the same distance apart, longitude lines converge at the \_\_\_\_\_. This convergence means the distance between longitude lines varies depending on your \_\_\_\_\_. At the Equator, the distance is greatest, roughly 69 miles (111 kilometers) apart, but this decreases to \_\_\_\_\_ at the poles.

Understanding longitude has transformed how we view the world, enabling precise navigation and \_\_\_\_\_. It allows us to explore, understand, and connect with every corner of the \_\_\_\_\_, showing the interconnectedness of our world through the science of \_\_\_\_\_.

west mapping time longitude latitude globe Greenwich latitude sun  
technologies planet sea geography chronometer cars poles zero north