

GEOSYNCHRONOUS ORBIT

LOW EARTH ORBIT

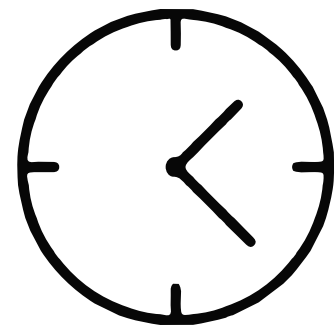
1,800 MILES

22,000 MILES

225,000 MILES

SPACE SERVICE VOLUME

BEYOND SPACE SERVICE VOLUME



The area of space that can rely on GNSS signals for timing and navigation is called the GNSS Space Service Volume. Geosynchronous orbit, some 22,000 miles from Earth, is considered the outer limits of this region – but that hasn't stopped NASA engineers from reaching higher. NASA simulations show GNSS signals could even be used for reliable navigation in lunar orbit, far outside the GNSS Space Service Volume, over 225,000 miles from Earth.

SPACE SERVICE VOLUME