

Task 3: Add 4-5 satellites and check future passes for different ground stations.

Satellites: Tiangong (LEO), GOES (GEO), NAOO (Weather monitoring), GPS (MEO), Molniya (HEO)

Groundstations: USA, Antarctica, Sierra-Leone, UAE, Australia

Some satellites, like Tiangong, never pass over Antarctica. This is because its inclination is low, so the region around the equator will be covered but the poles won't be. Satellites like NAOO are sun synchronous (inclination of about 90 degrees) so it passes over the poles. Molniya satellite doesn't pass over Antarctica for the next 3 days. Molniya satellites are highly elliptical and spend a long time over one part and short time over the rest. GOES is geostationary so it doesn't have any passes. Its signal is available in USA and Sierra-Leone.