# Mission report

# Mission details:

Name of the mission: TEST
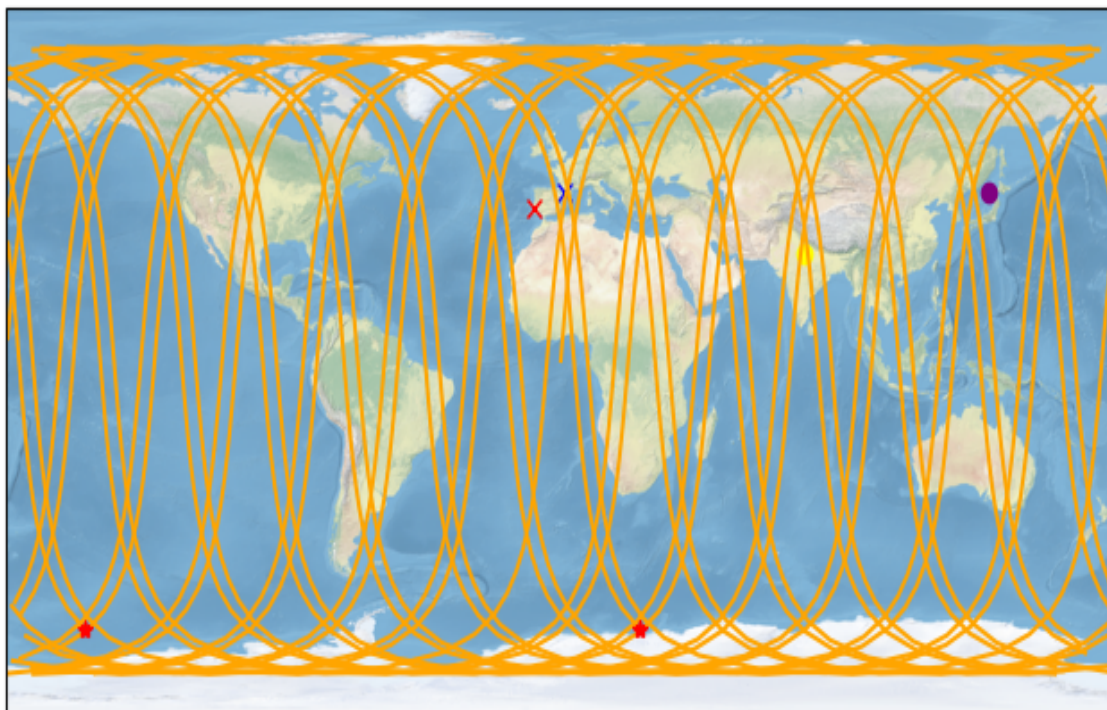
Type of the mission: EO

Duration of the mission: 1 days

Sun zenith angle of the mission: 20.0°

Ground station used during the mission: - Vladivostok
- Bengaluru


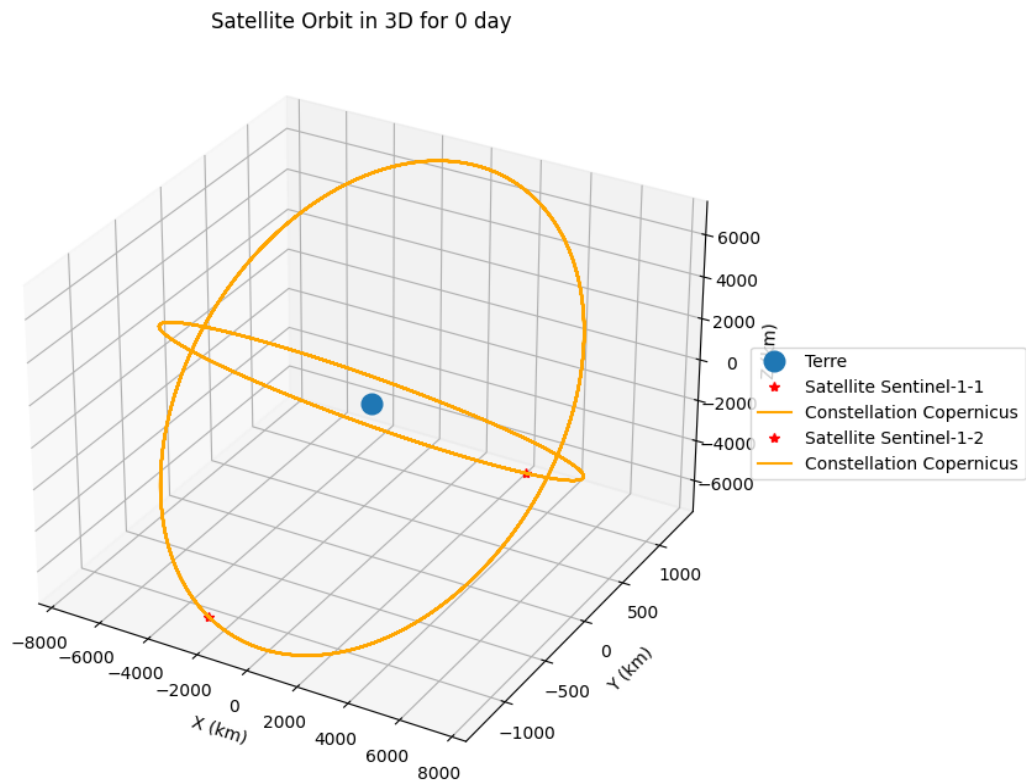Point of interest of the mission: - Toulouse
- Lisbonne



Satellite Ground Track

Mission's constellation name: Copernicus

# Constellation details:



Satellite Orbit in 3D for 0 day

Name of the constellation: Copernicus

Number of satellites present in the constellation: 2

Number of orbital planes: 2

Phasing factor between each plane: 1

Name of the satellite model: Sentinel

Type of orbit: LEO

- Semi major axis: 7378.0 km

- Inclination: 80.0 °

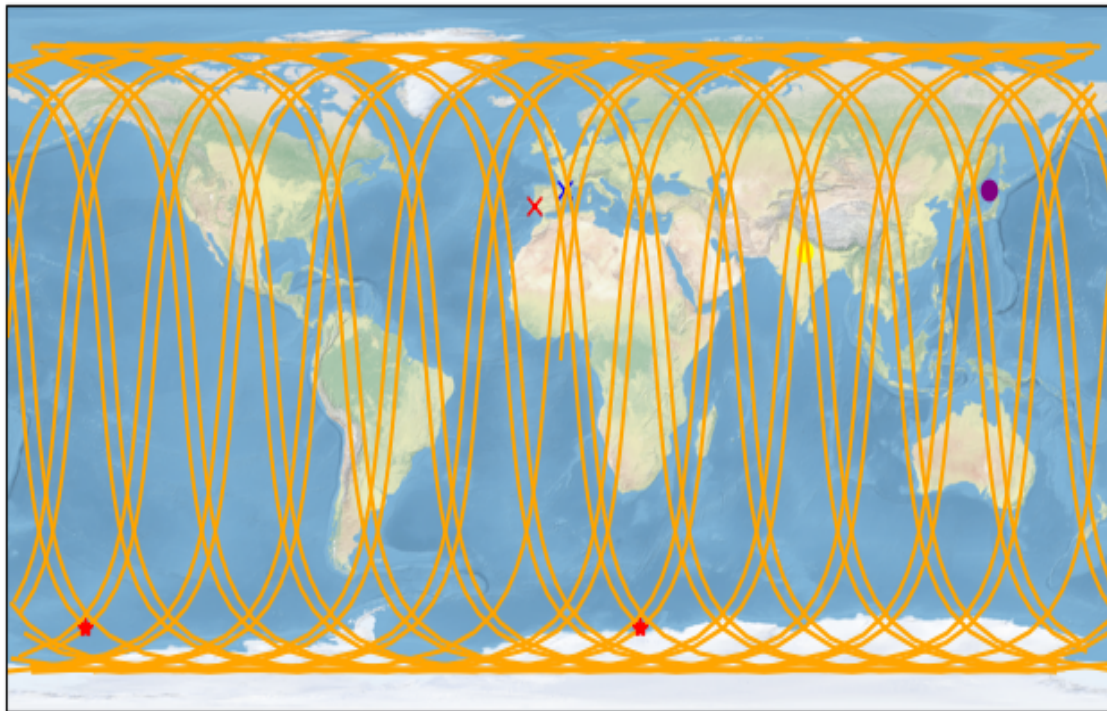- Eccentricity: 0.01

- Orbital period: 6307.032709557955 s

- Number of orbits per day: 13.698993485330373

- Revisit at 0°: 7.874505749515141; at 45°: 11.136232827949225; at 60°:15.749011499030278
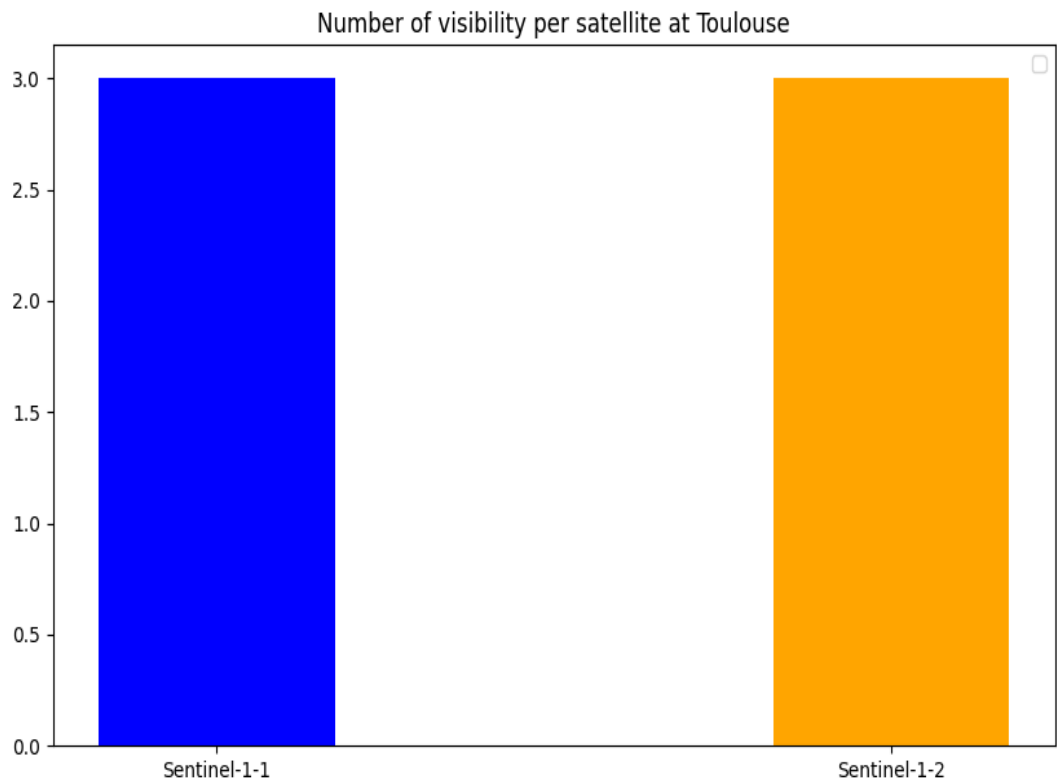
- Swath: 25.0 km

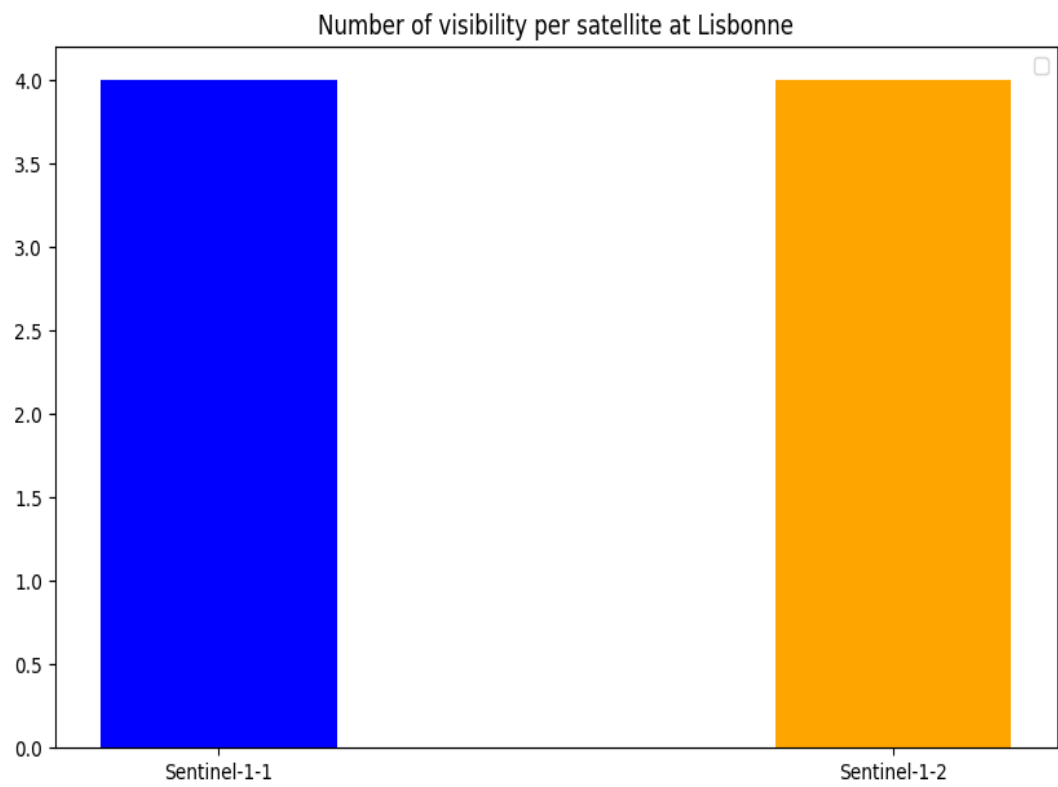- Depointing: 45.0 °

## Satellite Ground Track

# Point of interest details:

Name of the point of interest: Toulouse
Coordinates : 43.0° 1.0°
Altitude : 120.0 m
Total number of times visible : 6
Mean duration time : PLACEHOLDER s

Number of visibility per satellite at Toulouse



Name of the point of interest : Lisbonne
Coordinates : 39.0965405° -8.8707199°
Altitude : 120.0 m
Total number of times visible : 8
Mean duration time : PLACEHOLDER s

Number of visibility per satellite at Lisbonne

# Ground Station details:

Name of the ground station: Vladivostok
Coordinates : 43.0° 139.0°
Altitude : 120.0 m
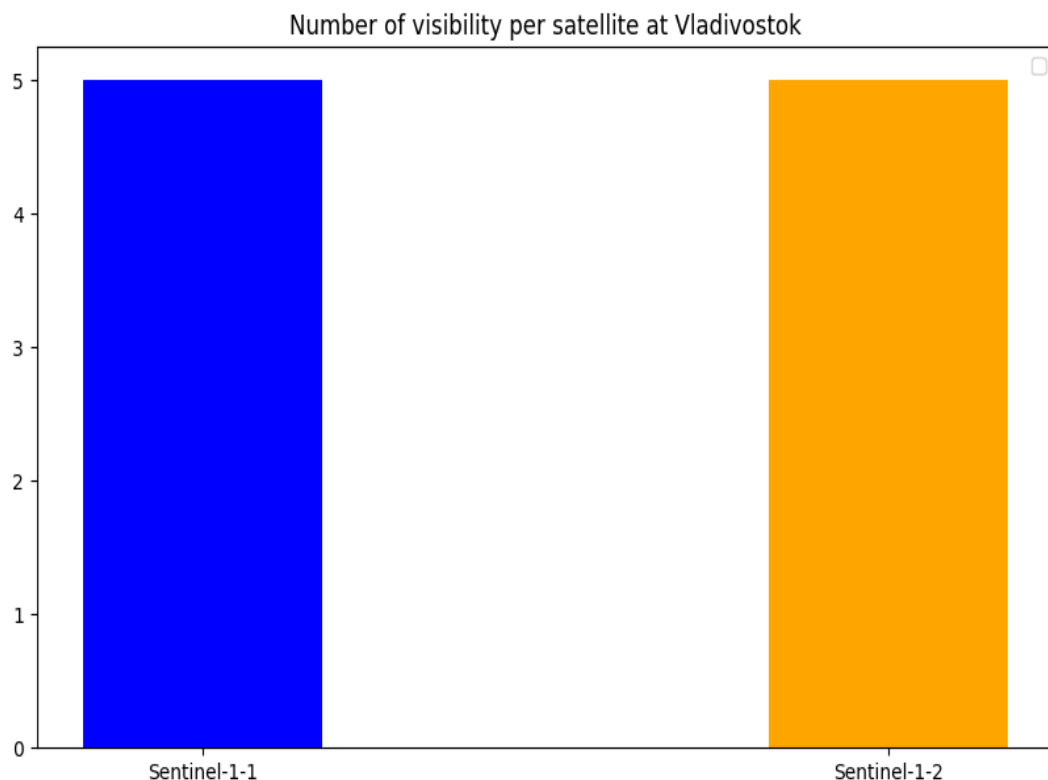Antenna characteristics :
- Elevation : 8.0 °
- Band : Ku
- Debit : 10.0 Mbps
Total number of opportunities : 10
Mean duration time : PLACEHOLDER s
Mean data size send/received : PLACEHOLDER Mb



Number of visibility per satellite at Vladivostok

Name of the ground station : Bengaluru
Coordinates : 27.574329814070964° 78.99782306243969°
Altitude : 200.0 m
Antenna characteristics :
- Elevation : 8.0 °
- Band : Ka
- Debit : 10.0 Mbps
Total number of opportunities : 9
Mean duration time : PLACEHOLDER s
Mean data size send/received : PLACEHOLDER Mb

Number of visibility per satellite at Bengaluru