

# Mission report

## Mission details:

Name of the mission: TEST

Type of the mission: EO

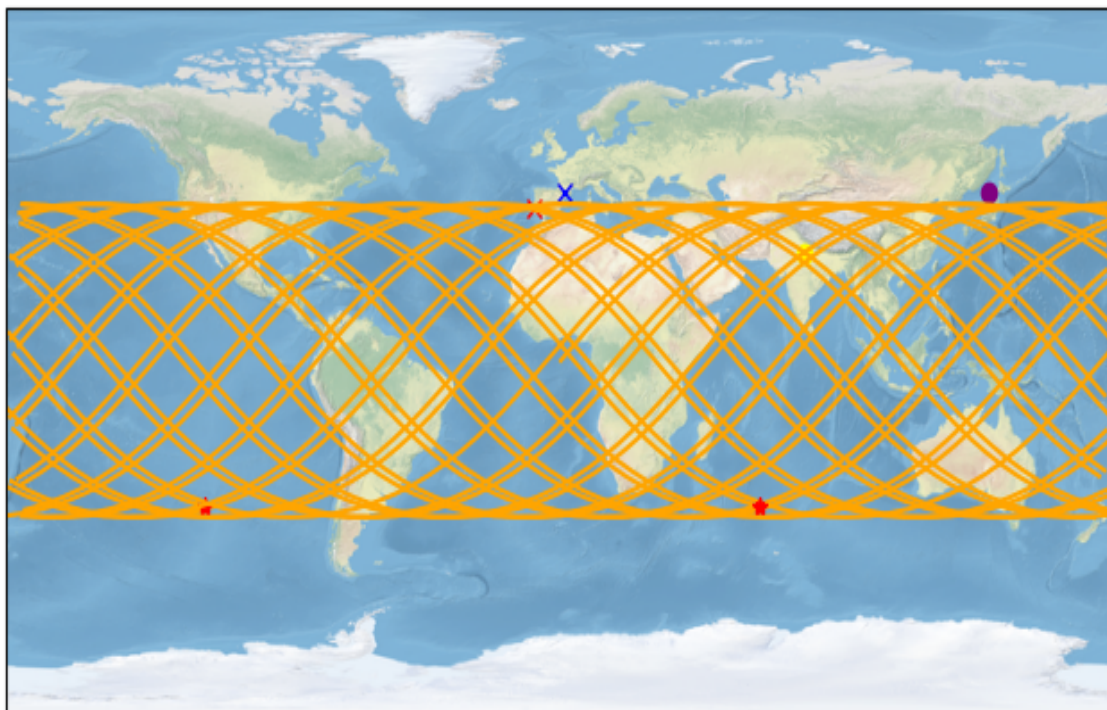
Duration of the mission: 1 days

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

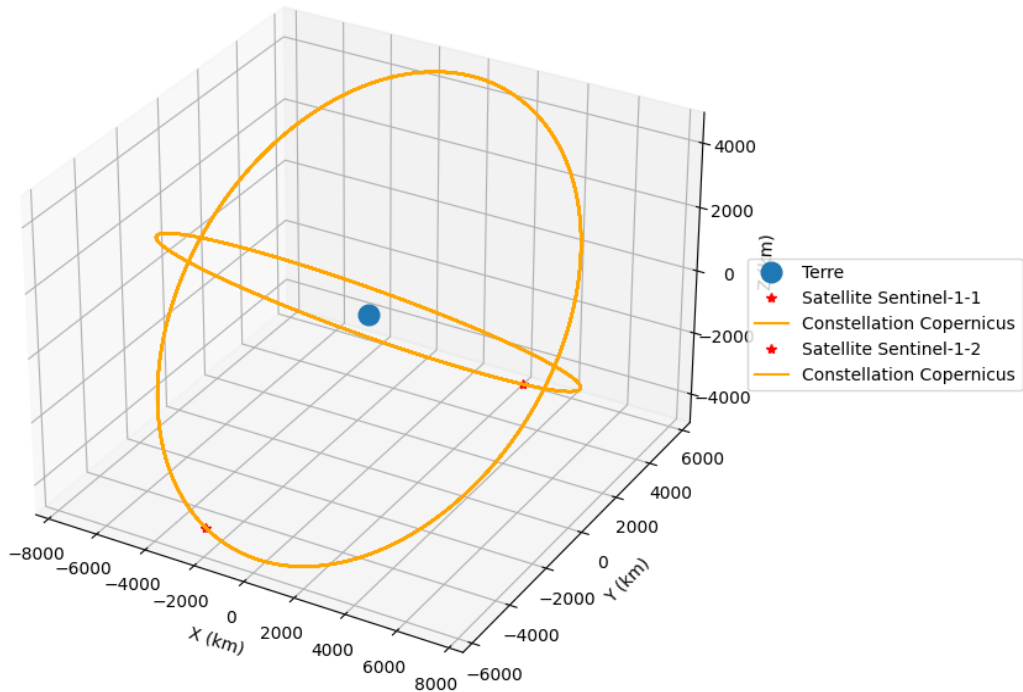


- × Toulouse
- × Lisbonne
- Vladivostok
- Bengaluru
- Ground Track of Sentinel-1-1
- ★ Satellite Sentinel-1-1
- Ground Track of Sentinel-1-2
- ★ Satellite Sentinel-1-2

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

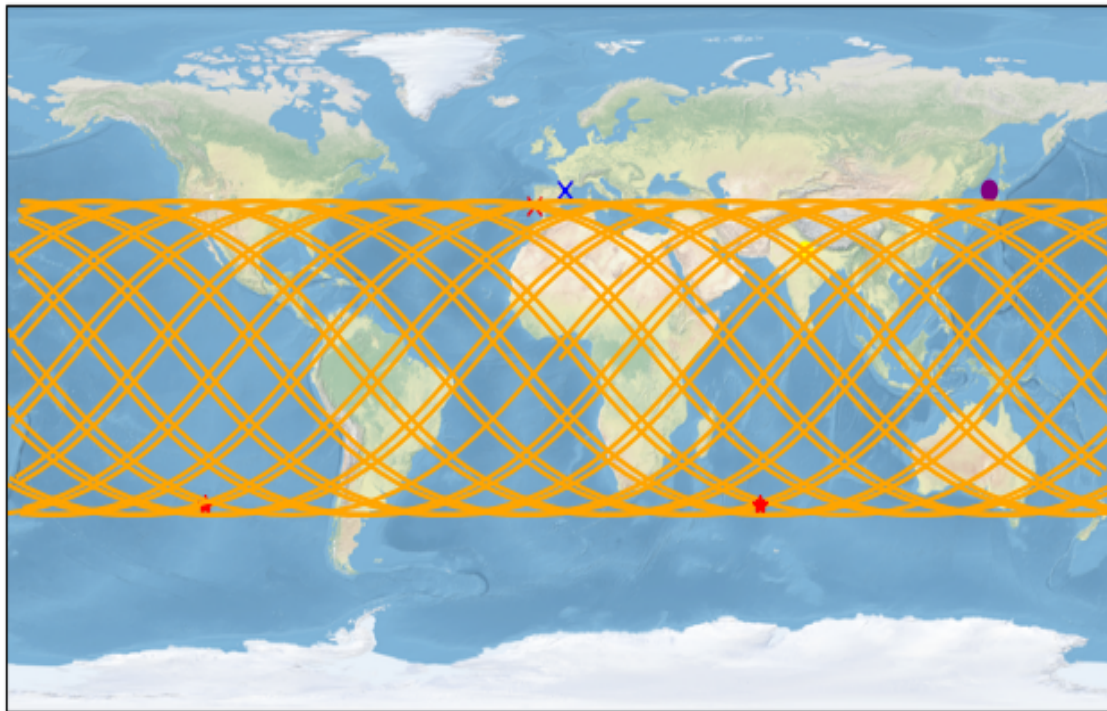
Name of the satellite model: Sentinel

Type of orbit: LEO

- Semi major axis: 7378.0 km
- Inclination: 40.0 °
- Eccentricity: 0.01
- Orbital period: 6307.032709557955 s
- Number of orbits per day: 13.698993485330373

- Revisit at 0°: 1.7850055381430314; at 45°: 2.52437904095296; at 60°:3.5700110762860624
- Swath: 25.0 km
- Depointing: 45.0 °

Satellite Ground Track



- × Toulouse
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- Vladivostok
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- Ground Track of Sentinel-1-1
- ★ Satellite Sentinel-1-1
- Ground Track of Sentinel-1-2
- ★ Satellite Sentinel-1-2

Point of interest details:

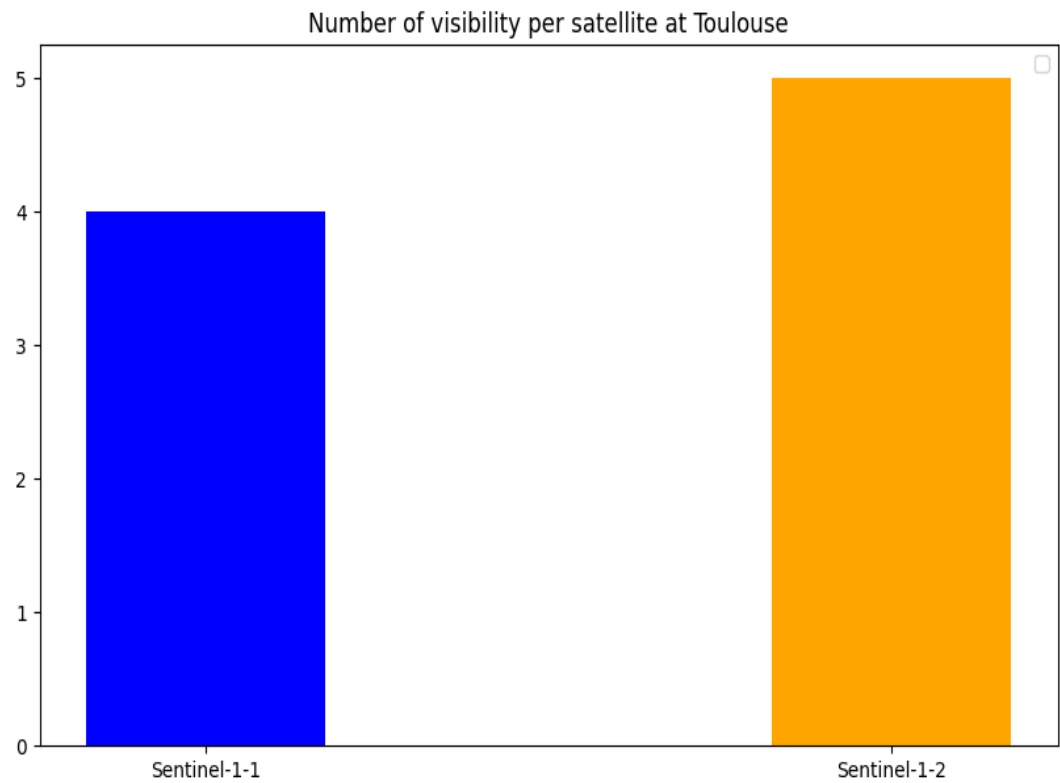
Name of the point of interest: Toulouse

Coordinates : 43.0° 1.0°

Altitude : 120.0 m

Total number of times visible : 9

Mean duration time : PLACEHOLDER s



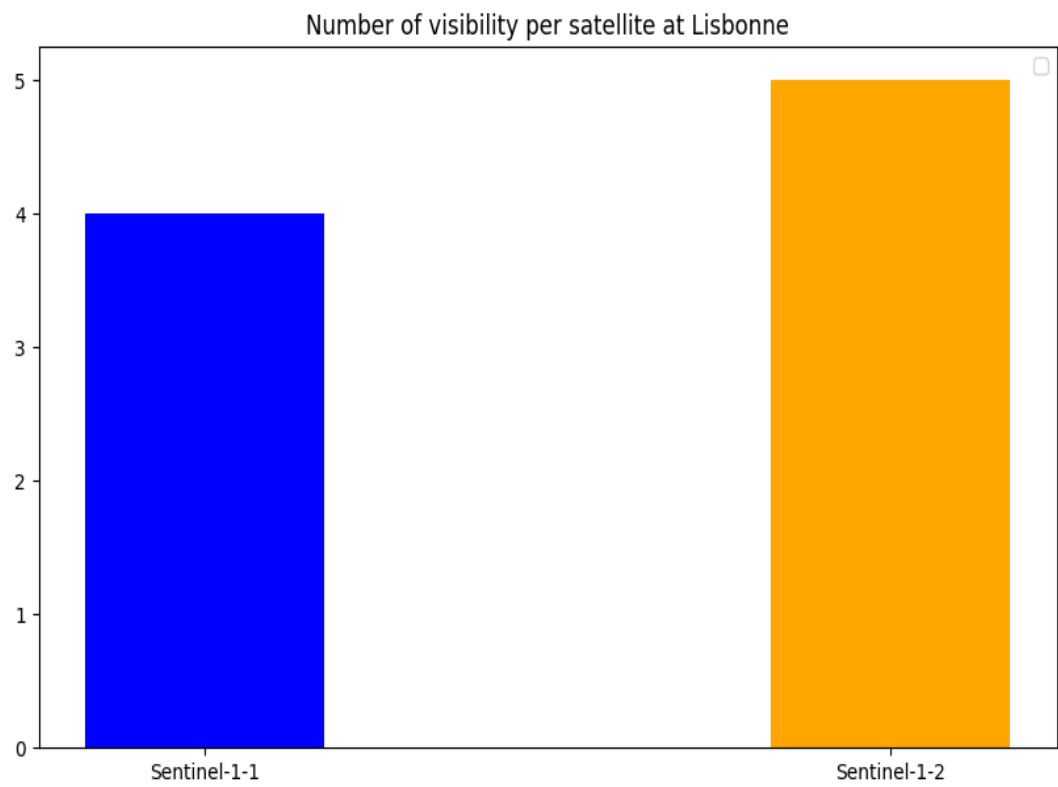
Name of the point of interest : Lisbonne

Coordinates : 39.0965405° -8.8707199°

Altitude : 120.0 m

Total number of times visible : 9

Mean duration time : PLACEHOLDER s



## Ground Station details:

Name of the ground station: Vladivostok

Coordinates : 43.0° 139.0°

Altitude : 120.0 m

Antenna characteristics :

- Elevation : 8.0 °

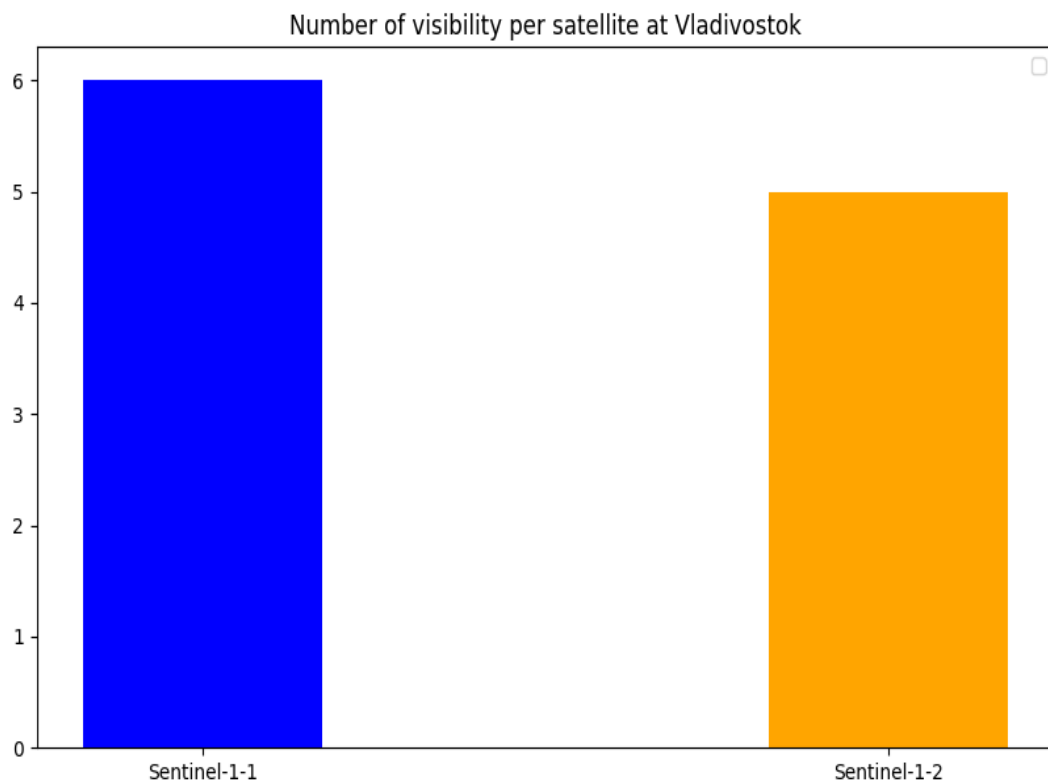
- Band : Ku

- Debit : 10.0 Mbps

Total number of opportunities : 11

Mean duration time : PLACEHOLDER s

Mean data size send/received : PLACEHOLDER Mb



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 : 14

Mean duration time : PLACEHOLDER s

Mean data size send/received : PLACEHOLDER Mb

