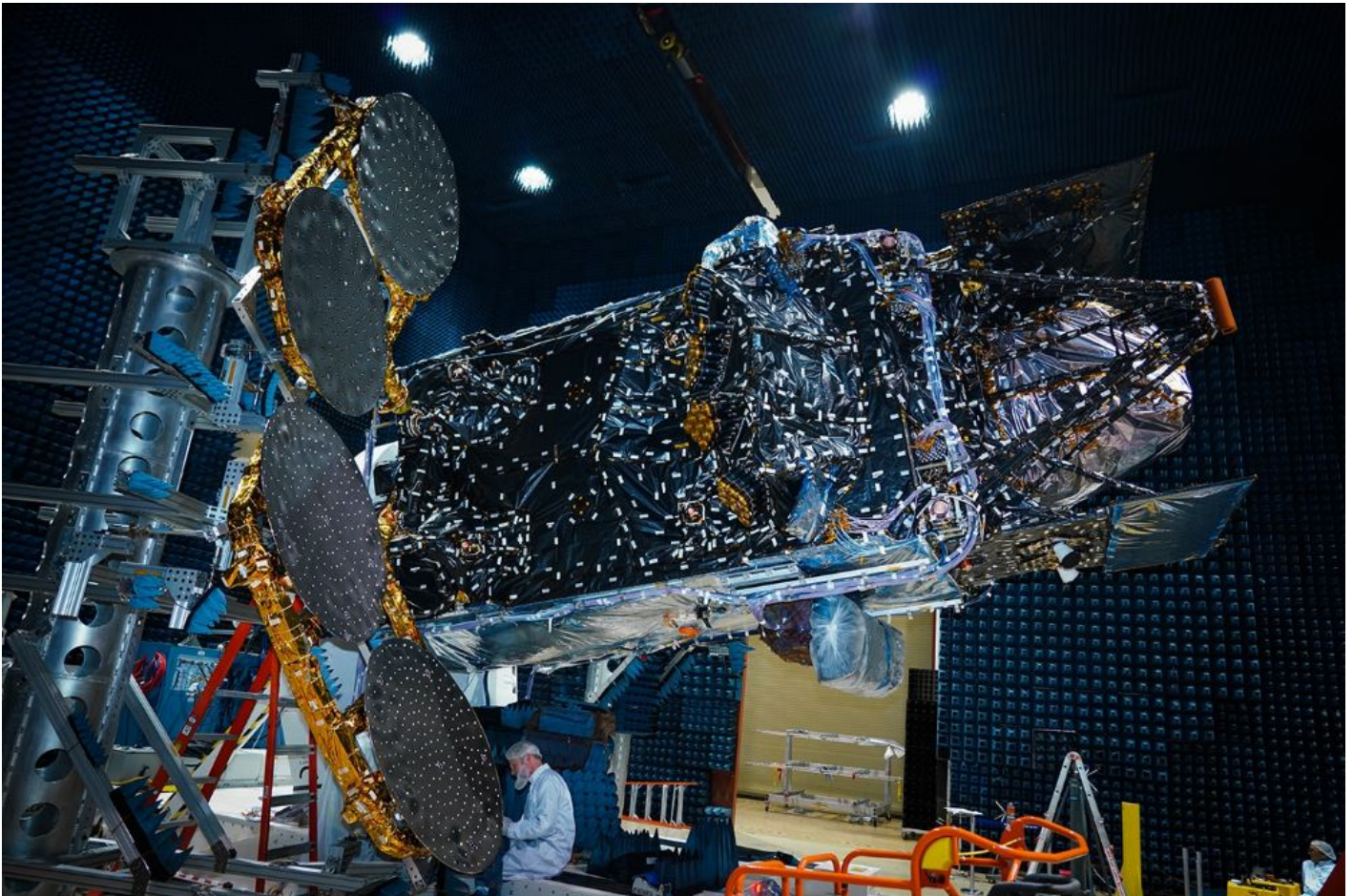


Tropospheric Emissions Monitoring of Pollution (TEMPO)

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About Tropospheric Emissions Monitoring of Pollution:

- It will monitor major air pollutants across **North America**.
- **Observations:**
 - It will make important scientific observations, including that **of ozone, nitrogen oxide, sulphur dioxide and formaldehyde levels**.
 - It is capable of measuring air quality over North America hourly during the daytime with a **resolution of several square miles**.
 - It monitors the effects of everything from rush-hour traffic to pollution from **forest fires and volcanoes**.
 - The present pollution-monitoring satellites are in **low Earth orbit (LEO)**, but this new monitoring instrument **is hosted in geostationary orbit**.
- After this launch NASA has joined **South Korea's** Geostationary Environment Monitoring Spectrometer and the **European Space Agency's Sentinel-4** satellite to become an air quality monitoring satellite

constellation.

Q1) What is the troposphere?

The troposphere is the lowest layer of Earth's atmosphere, which extends from the surface up to an average height of about 7-20 kilometers (4-12 miles), depending on the location and season.

Source: [SpaceX launches NASA's TEMPO air quality monitoring instrument](#)

Source: <https://vajiramandravi.com/current-affairs/tropospheric-emissions-monitoring-of-pollution-tempo/>

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