

Space Situational Awareness Report

Generated on 2025-12-19 13:33 UTC

Short-Horizon Conjunction Monitoring Summary

Executive Summary

No conjunction events exceeding alert thresholds were detected within the 48-hour monitoring horizon.

The orbital environment is assessed as nominal for the tracked object set during this period.

1. System Overview

This report summarizes short-horizon Space Situational Awareness (SSA) analysis performed using physics-based orbit propagation.

Public Two-Line Element (TLE) data was used as input.

All objects were propagated using the SGP4 model in an Earth-Centered Inertial (ECI) reference frame.

2. Monitoring Summary

Total objects monitored: 50

Monitoring horizon: 48 hours

Total conjunction events detected: 0

High risk events (< 2 km): 0

Medium risk events (2–10 km): 0

3. Detected Conjunction Events

No conjunction events met the alerting thresholds.

This indicates adequate spatial separation for the monitored objects.