

SatGuard

Fleet Conjunction Assessment Report

ISS-and-Starlink

2026-03-19 16:08 UTC

Fleet Objects: **3**

Screening Window: **3 days**

Miss Threshold: **50 km**

Pc Threshold: **1.0e-07**

Conjunctions Found: **5**

Executive Summary

Total conjunctions: 5
High risk ($P_c \geq 1e-4$): 0
Medium risk ($1e-6 \leq P_c < 1e-4$): 4

Maximum P_c : $9.97e-05$
Closest approach: 0.100 km (100 m)
Maximum relative velocity: 15.00 km/s

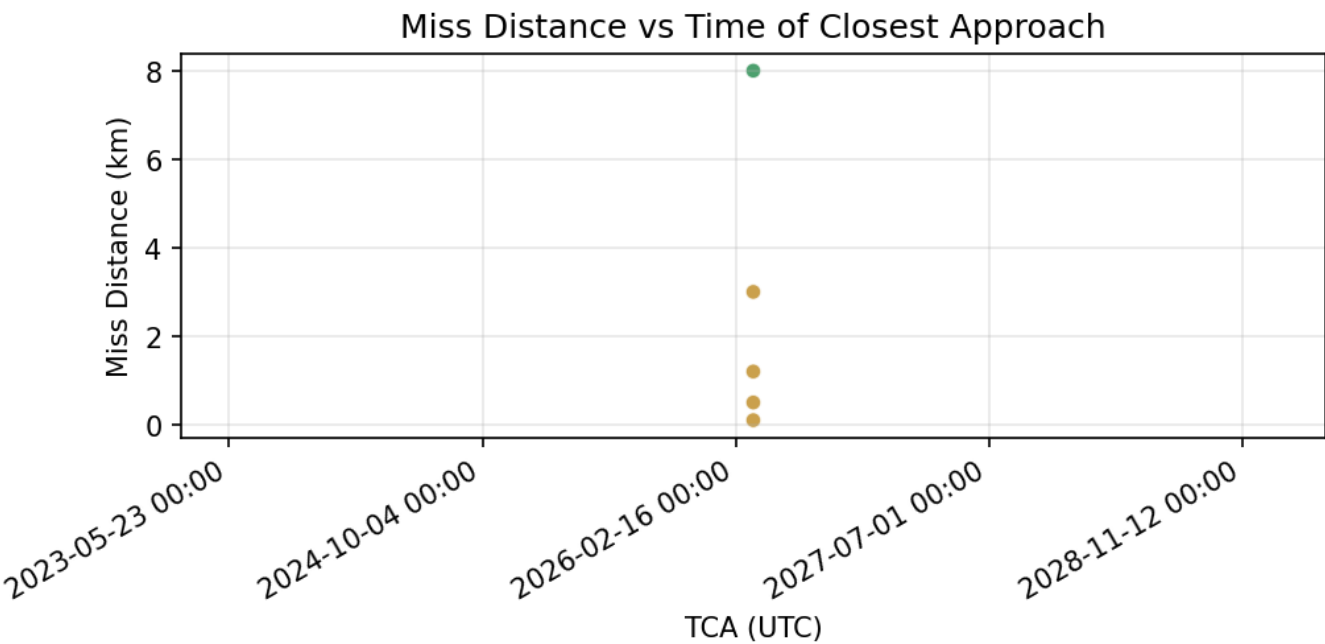
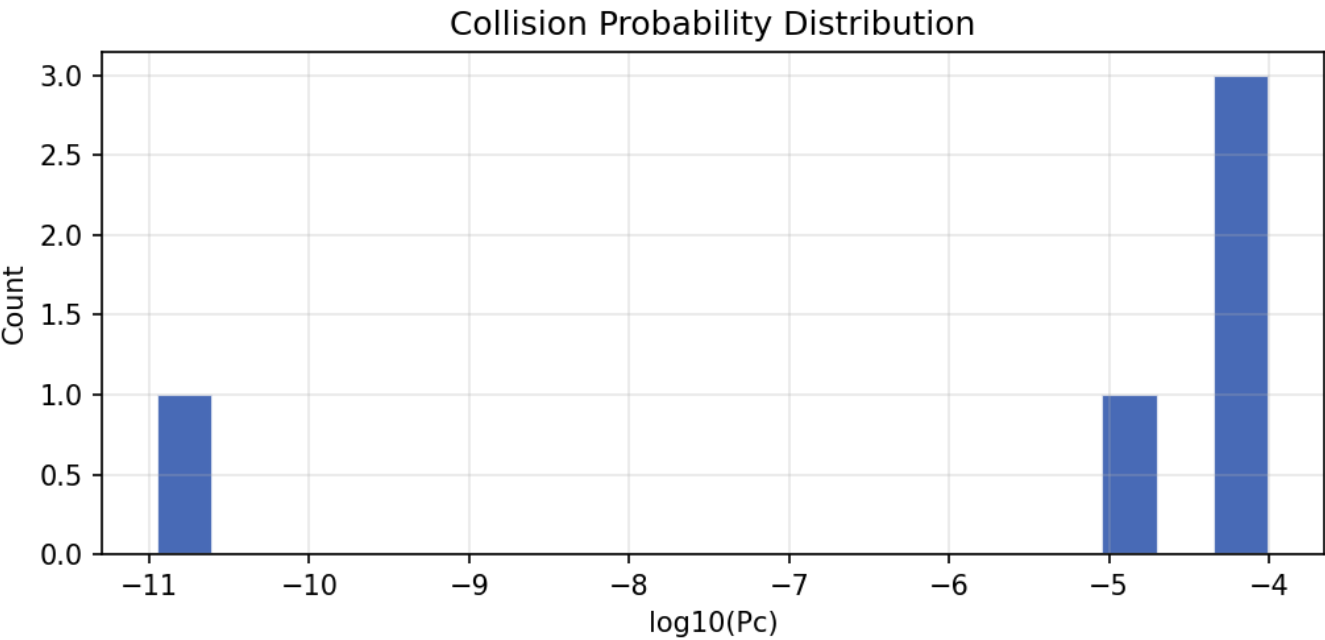
Fleet: ISS-and-Starlink (3 objects)
Window: 3 days from TLE epoch
Report generated: 2026-03-19 16:08 UTC

NOTICE: 4 medium-risk conjunction(s) detected

Conjunction Details

#	Primary	Secondary	TCA (UTC)	Miss (km)	Vrel (km/s)	Pc
1	25544	99004	2026-03-22 12:00:00	0.100	15.00	9.97e-05
2	25544	99001	2026-03-22 12:00:00	0.500	15.00	9.39e-05
3	25544	99002	2026-03-22 12:00:00	1.200	15.00	6.98e-05
4	25544	99003	2026-03-22 12:00:00	3.000	15.00	1.05e-05
5	25544	99005	2026-03-22 12:00:00	8.000	15.00	1.13e-11

Statistical Analysis



CDM Excerpts (Top 3)

Conjunction #1: NORAD 25544 vs 99004 (Pc=9.97e-05)

CCSDS_CDM_VERS	= 1.0
CREATION_DATE	= 2026-03-19T16:08:39.858
ORIGINATOR	= SATGUARD
MESSAGE_ID	= AUTO
TCA	= 2026-03-22T12:00:00.000
MISS_DISTANCE	= 100.000 [m]
RELATIVE_SPEED	= 15000.000 [m/s]
RELATIVE_POSITION_R	= 100.000 [m]
RELATIVE_VELOCITY_R	= 15000.000 [m/s]
COLLISION_PROBABILITY	= 9.974534e-05
COLLISION_PROBABILITY_METHOD	= FOSTER-1992
OBJECT	= OBJECT1
OBJECT_DESIGNATOR	= 25544
CATALOG_NAME	= SATCAT
OBJECT_NAME	= PRIMARY
EPHEMERIS_NAME	= SGP4
X	= 7000.000000 [km]
Y	= 0.000000 [km]
Z	= 0.000000 [km]
X_DOT	= 0.000000000 [km/s]
Y_DOT	= 7.500000000 [km/s]
Z_DOT	= 0.000000000 [km/s]
OBJECT	= OBJECT2
OBJECT_DESIGNATOR	= 99004
CATALOG_NAME	= SATCAT
OBJECT_NAME	= SECONDARY
EPHEMERIS_NAME	= SGP4
X	= 7000.100000 [km]
Y	= 0.000000 [km]
Z	= 0.000000 [km]
X_DOT	= 0.000000000 [km/s]
Y_DOT	= -7.500000000 [km/s]
Z_DOT	= 0.000000000 [km/s]

Conjunction #2: NORAD 25544 vs 99001 (Pc=9.39e-05)

CCSDS_CDM_VERS	= 1.0
CREATION_DATE	= 2026-03-19T16:08:39.863
ORIGINATOR	= SATGUARD
MESSAGE_ID	= AUTO
TCA	= 2026-03-22T12:00:00.000
MISS_DISTANCE	= 500.000 [m]
RELATIVE_SPEED	= 15000.000 [m/s]
RELATIVE_POSITION_R	= 500.000 [m]
RELATIVE_VELOCITY_R	= 15000.000 [m/s]
COLLISION_PROBABILITY	= 9.393690e-05
COLLISION_PROBABILITY_METHOD	= FOSTER-1992
OBJECT	= OBJECT1
OBJECT_DESIGNATOR	= 25544
CATALOG_NAME	= SATCAT
OBJECT_NAME	= PRIMARY

EPHEMERIS_NAME	=	SGP4
X	=	7000.000000 [km]
Y	=	0.000000 [km]
Z	=	0.000000 [km]
X_DOT	=	0.000000000 [km/s]
Y_DOT	=	7.500000000 [km/s]
Z_DOT	=	0.000000000 [km/s]
OBJECT	=	OBJECT2
OBJECT_DESIGNATOR	=	99001
CATALOG_NAME	=	SATCAT
OBJECT_NAME	=	SECONDARY
EPHEMERIS_NAME	=	SGP4
X	=	7000.500000 [km]
Y	=	0.000000 [km]
Z	=	0.000000 [km]
X_DOT	=	0.000000000 [km/s]
Y_DOT	=	-7.500000000 [km/s]
Z_DOT	=	0.000000000 [km/s]

Conjunction #3: NORAD 25544 vs 99002 (Pc=6.98e-05)

CCSDS_CDM_VERS	=	1.0
CREATION_DATE	=	2026-03-19T16:08:39.869
ORIGINATOR	=	SATGUARD
MESSAGE_ID	=	AUTO
TCA	=	2026-03-22T12:00:00.000
MISS_DISTANCE	=	1200.000 [m]
RELATIVE_SPEED	=	15000.000 [m/s]
RELATIVE_POSITION_R	=	1200.000 [m]
RELATIVE_VELOCITY_R	=	15000.000 [m/s]
COLLISION_PROBABILITY	=	6.976540e-05
COLLISION_PROBABILITY_METHOD	=	FOSTER-1992
OBJECT	=	OBJECT1
OBJECT_DESIGNATOR	=	25544
CATALOG_NAME	=	SATCAT
OBJECT_NAME	=	PRIMARY
EPHEMERIS_NAME	=	SGP4
X	=	7000.000000 [km]
Y	=	0.000000 [km]
Z	=	0.000000 [km]
X_DOT	=	0.000000000 [km/s]
Y_DOT	=	7.500000000 [km/s]
Z_DOT	=	0.000000000 [km/s]
OBJECT	=	OBJECT2
OBJECT_DESIGNATOR	=	99002
CATALOG_NAME	=	SATCAT
OBJECT_NAME	=	SECONDARY
EPHEMERIS_NAME	=	SGP4
X	=	7001.200000 [km]
Y	=	0.000000 [km]
Z	=	0.000000 [km]
X_DOT	=	0.000000000 [km/s]
Y_DOT	=	-7.500000000 [km/s]
Z_DOT	=	0.000000000 [km/s]