

Architecture Performance Report

Key Performance Indicators

Cep50 Km:	0.08
Rmse Km:	0.11
Coverage Pct:	100.00
Nis Nees Consistency:	0.79
Data Age P50 Ms:	85.73

Geometry Access

	metric	value
0	coverage_percent	100.0
1	gaps_count	-
2	coverage_duration_s	636.0
3	range_km_mean	5306.5231
4	range_km_min	854.343
5	range_km_max	8745.9082
6	n_sats	8.0

Geometry Timeline

	Mean	Min	Max	Median	Std
Nsats	5.2732	2.0	8.0	5.0	-
GDOP	0.1275	0.073	0.2672	-	0.0497

Contact Summary

	Satellite	Total Duration [s]	Samples	Coverage [%]	range min [km]	range max [km]
0	LEO_P5_S4	128.0	129	20.1258	8181.4432	8745.9082
1	LEO_P6_S3	565.0	566	88.8365	4514.3942	8643.73
2	LEO_P7_S3	130.0	131	20.4403	7122.0494	7948.1823
3	LEO_P7_S2	597.0	598	93.8679	2389.3328	6545.8071
4	LEO_P5_S3	590.0	591	92.7673	5833.0214	8585.261
5	LEO_P6_S4	133.0	134	20.9119	7827.5611	8709.3535
6	LEO_P6_S2	636.0	637	100.0	854.343	5134.0339
7	LEO_P5_S2	572.0	573	89.9371	3695.2829	5336.3564

Triangulation Performance

	RMSE [km]	Bias [km]	Median [km]	P50 err [km]	P90 err [km]	P95 err [km]
X	0.0994	-0.0251	-0.0222	0.0523	0.1491	0.202
Y	0.0785	-0.0054	-0.0013	0.0414	0.1235	0.1579
Z	0.0688	-0.0225	-0.0186	0.0417	0.1067	0.1446
NORM	0.1441	0.1202	0.1026	0.1026	0.22	0.2707

Triangulation Covariance

	mean [km²]	median [km²]	mean [km³]	median [km³]
P_xx	0.0084	0.006	-	-
P_yy	0.0062	0.0052	-	-
P_zz	0.0041	0.0028	-	-
ellipsoid_volume	-	-	0.0022	0.0012

Filter Performance

	RMSE [km]	Bias [km]	Median [km]	P50 err [km]	P90 err [km]	P95 err [km]
X	0.0728	-0.0231	-0.0185	0.0376	0.1157	0.1507
Y	0.0611	-0.0072	-0.0026	0.0307	0.0969	0.123
Z	0.0563	-0.0228	-0.0195	0.0337	0.089	0.1168
NORM	0.1104	0.093	0.0778	0.0778	0.1706	0.2117

Data Age

	mode	p50_ms	p90_ms	p99_ms	mean_ms	count
0	Ground Process	85.7348	95.4596	96.8275	85.0174	637
1	Onboard Proces	63.3027	68.5106	70.6123	64.1796	637