



GPS - L1 Band Post Processing Report

Generated using SPIRIT on : 15/06/2024 15:58:24 IST

Input File Name : IITK00IND_R_20230010000_01D_30S_MO.rnx

Reference Ellipsoid : WGS84

Constellation : GPS

Band used : L1

Processed data start time : 2023-01-01 00:00:00 UTC

Processed data end time : 2023-01-01 00:09:30 UTC

Data Interval : 30.0 seconds

Processing mode : Single Point Positioning

Processing technique : WLS

Estimated vs. True Coordinates

	X (m)	Y (m)	Z (m)
True Coords.	968879.589	5628035.887	2830901.014
Estimated (mean) Coords.	968877.348	5628032.600	2830899.297

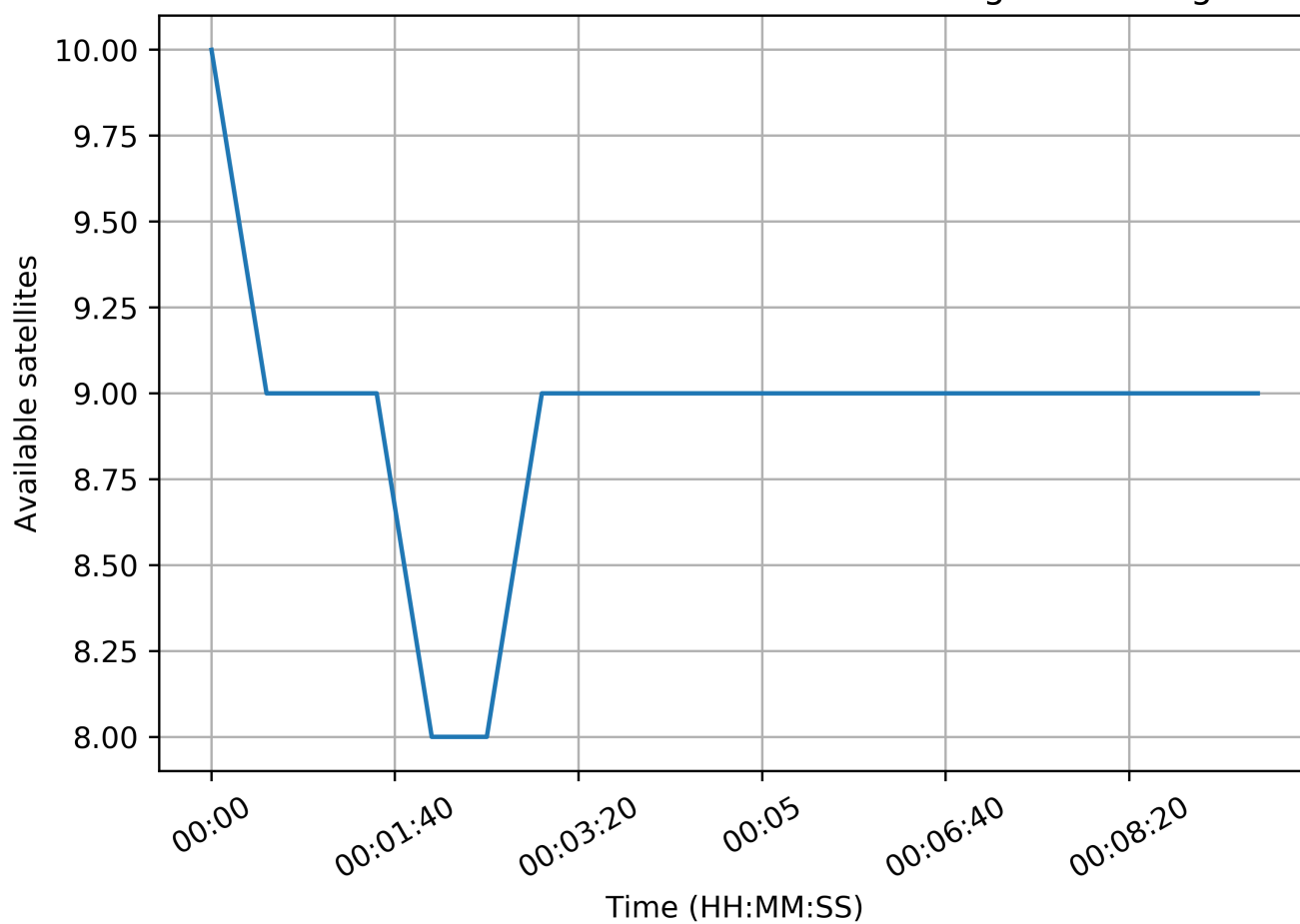
Error statistics (in meters)

Parameter	Maximum error (3D)	Minimum error (3D)	RMSE (3D)
Position error	10.876	1.819	5.484
	Standard deviation (X)	Standard deviation (Y)	Standard deviation (Z)
Std. Dev	1.026	2.850	1.458
	Semi Major axis	Semi Minor axis	
2 sigma error ellipse	6.087	1.256	
	Radius		
Circular Error Probable	2.402		

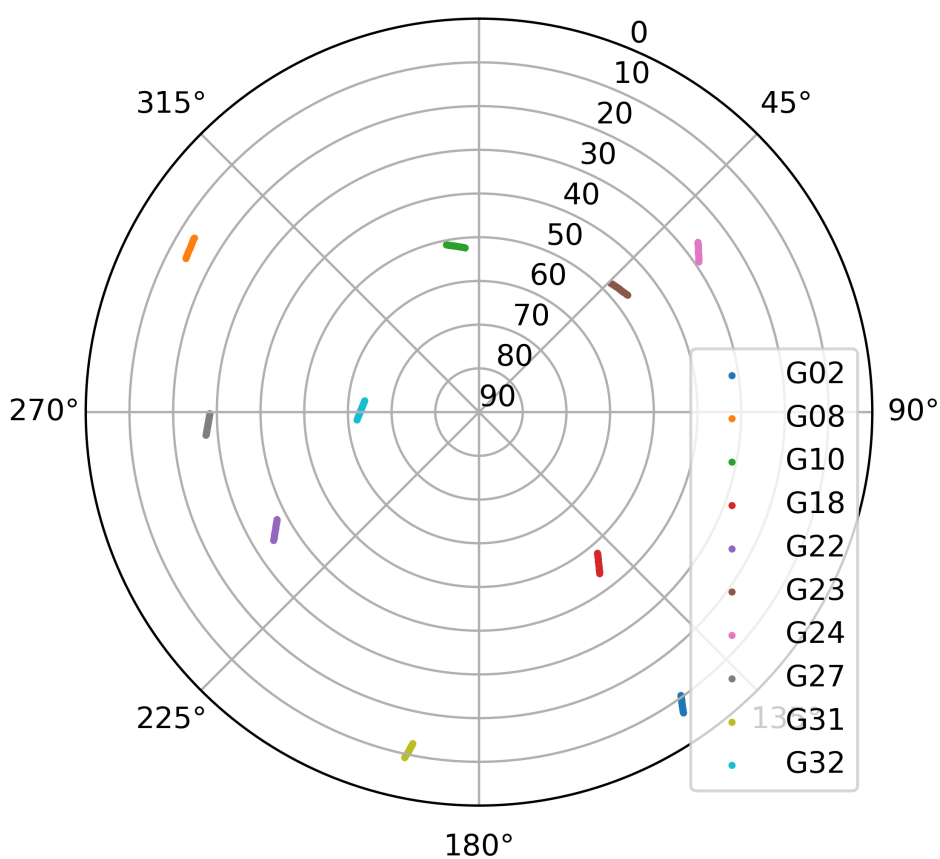


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Number of available satellites - Mask Angle = 10 deg



Sky Plot of Satellites



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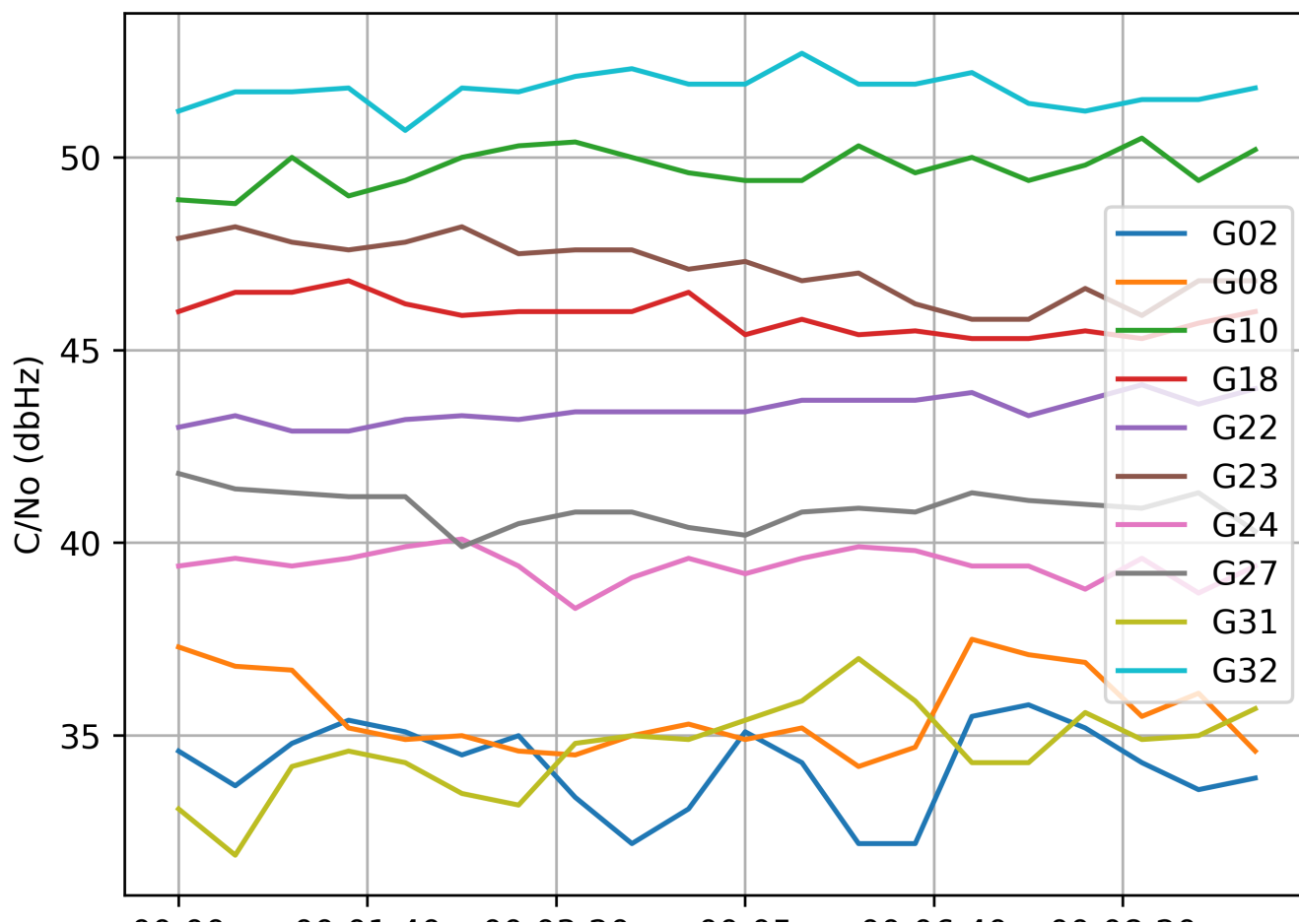


	Average C/No - L1 (dBHz)	Maximum C/No - L1 (dBHz)	Minimum C/No - L1 (dBHz)	Std. Dev C/No - L1 (dBHz)
G02	34.2	35.8	32.2	1.1
G08	35.6	37.5	34.2	1.04
G10	49.72	50.5	48.8	0.49
G18	45.88	46.8	45.3	0.45
G22	43.46	44.1	42.9	0.33
G23	47.11	48.2	45.8	0.75
G24	39.41	40.1	38.3	0.42
G27	40.89	41.8	39.9	0.45
G31	34.67	37.0	31.9	1.13
G32	51.74	52.7	50.7	0.42

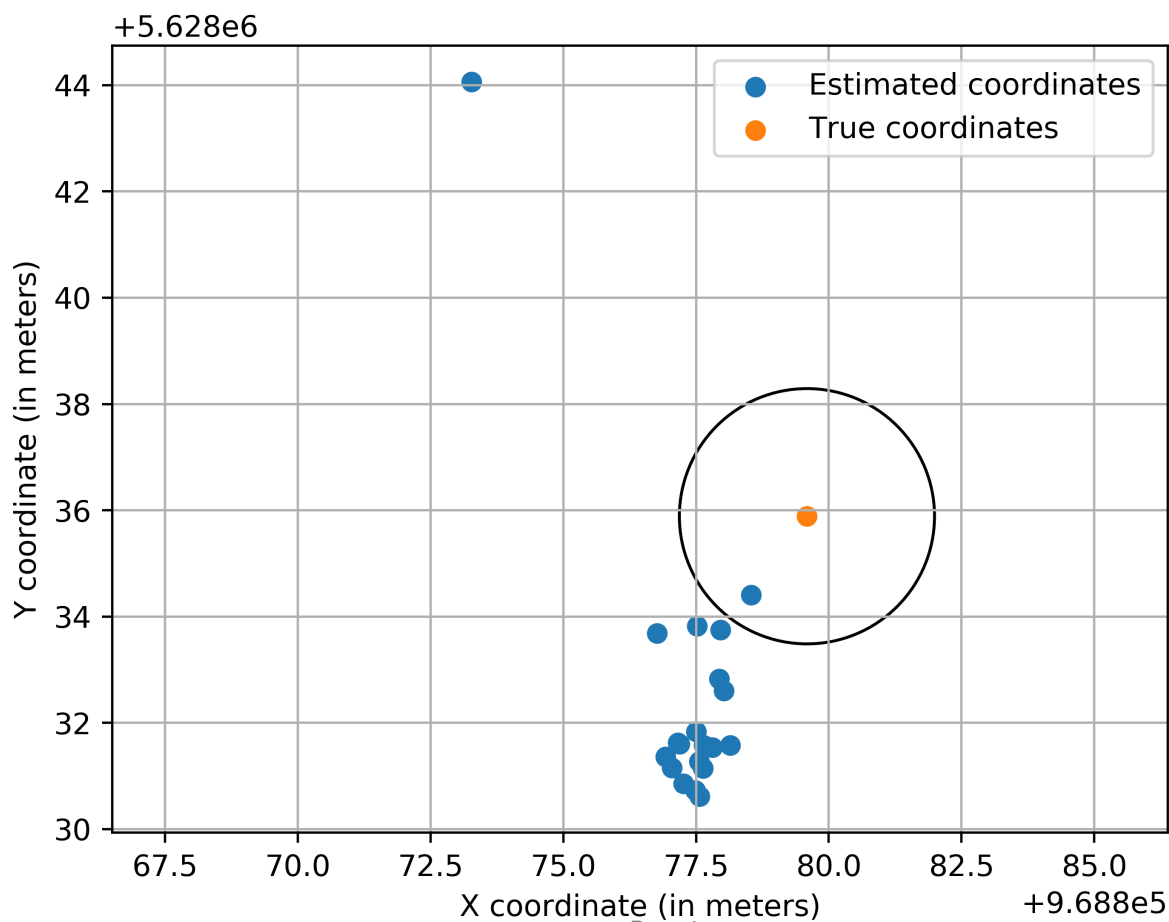


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C/No - Band L1

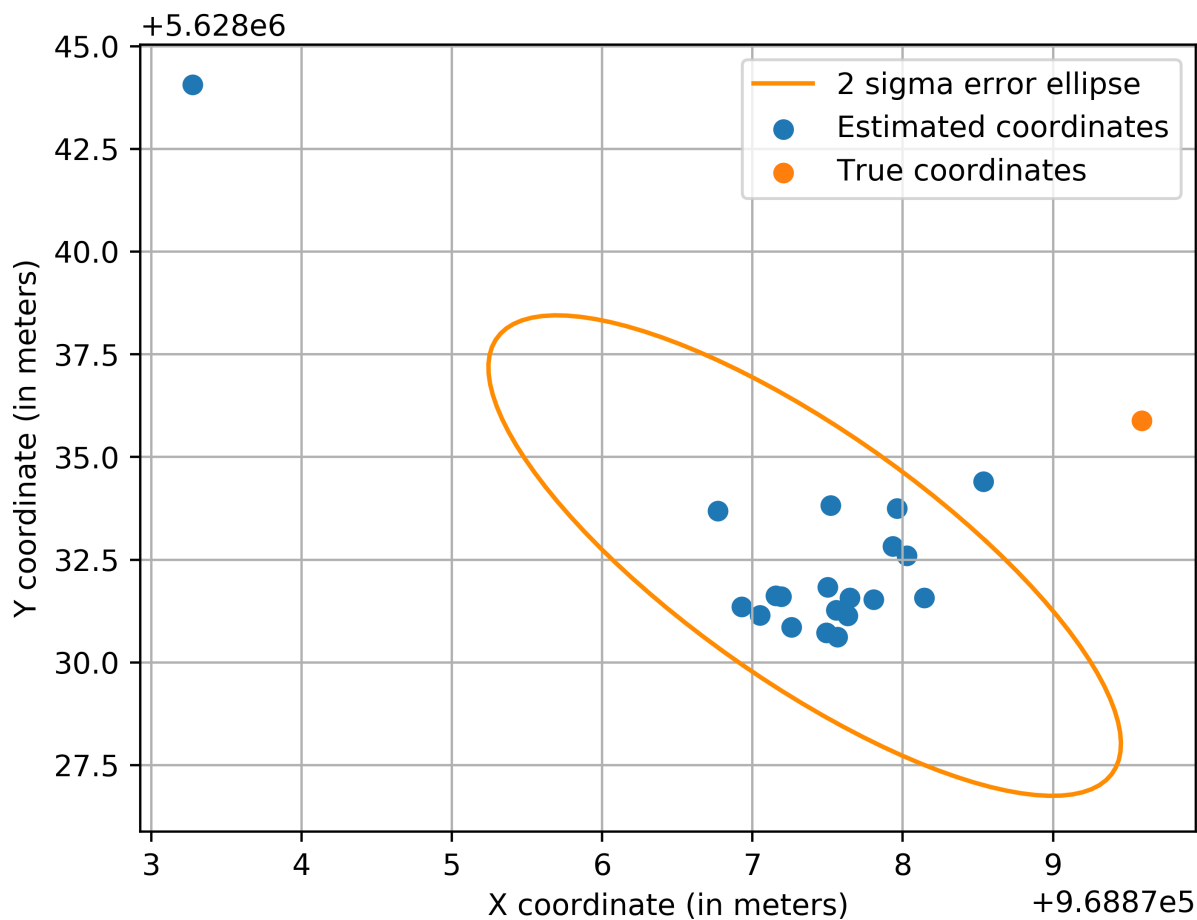


Scatter plot and CEP error plot

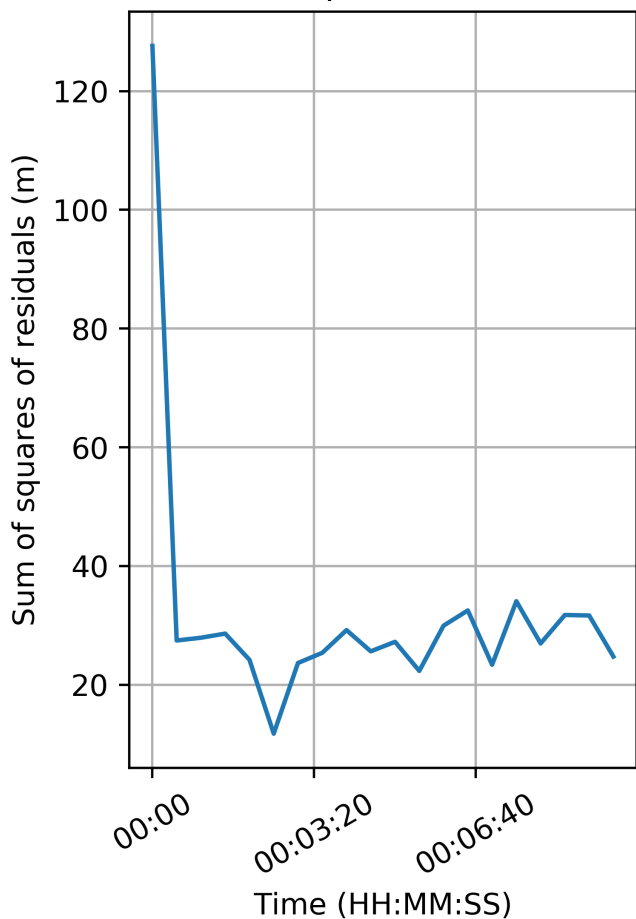


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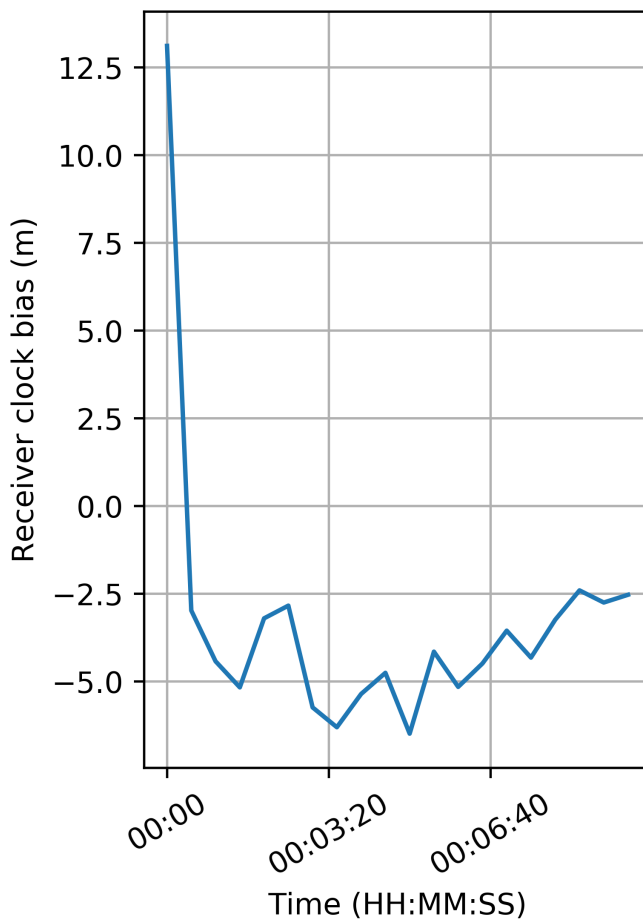
Scatter plot and error ellipse for estimated coordinates



Sum of squared residuals



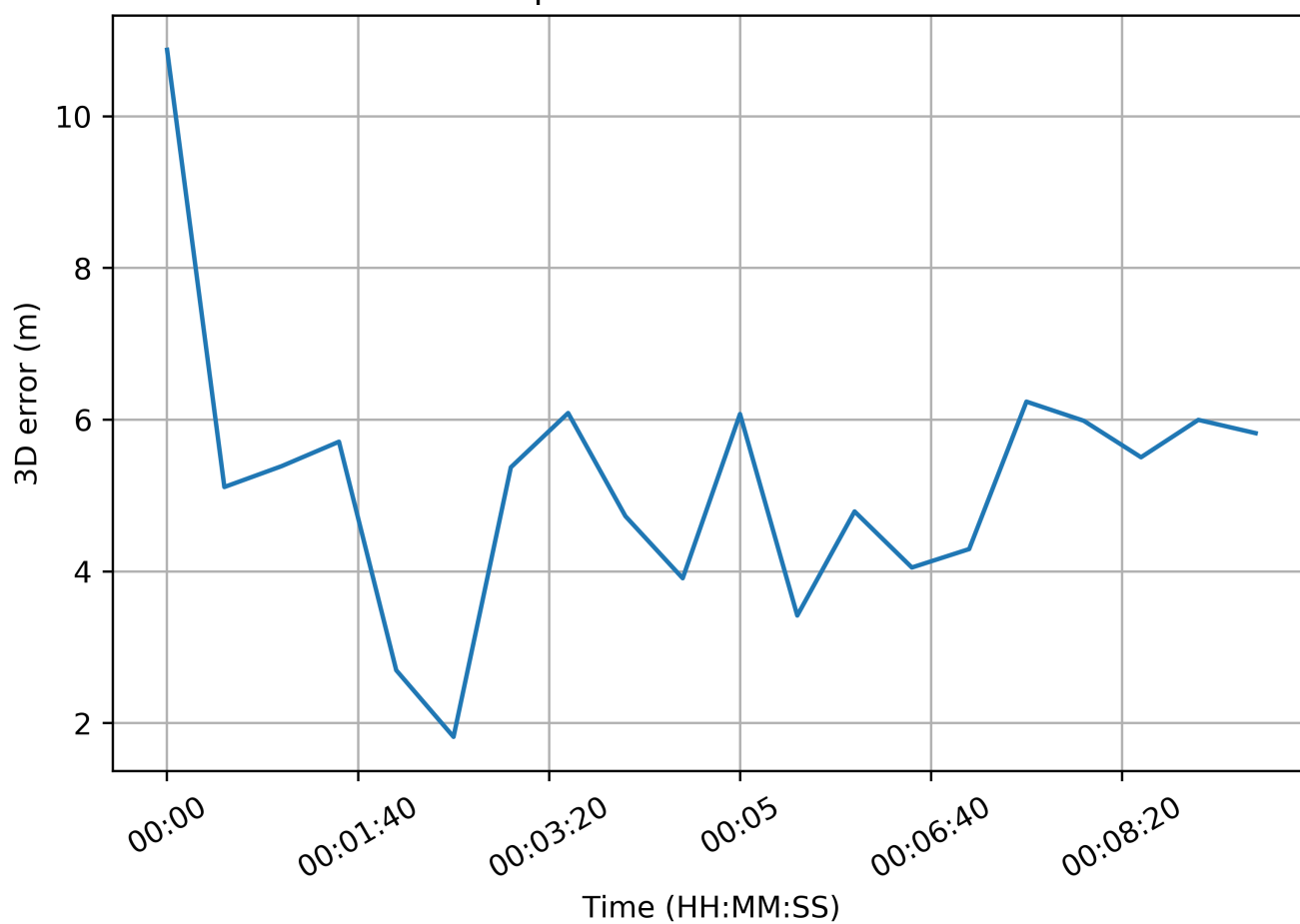
Estimated receiver clock bias



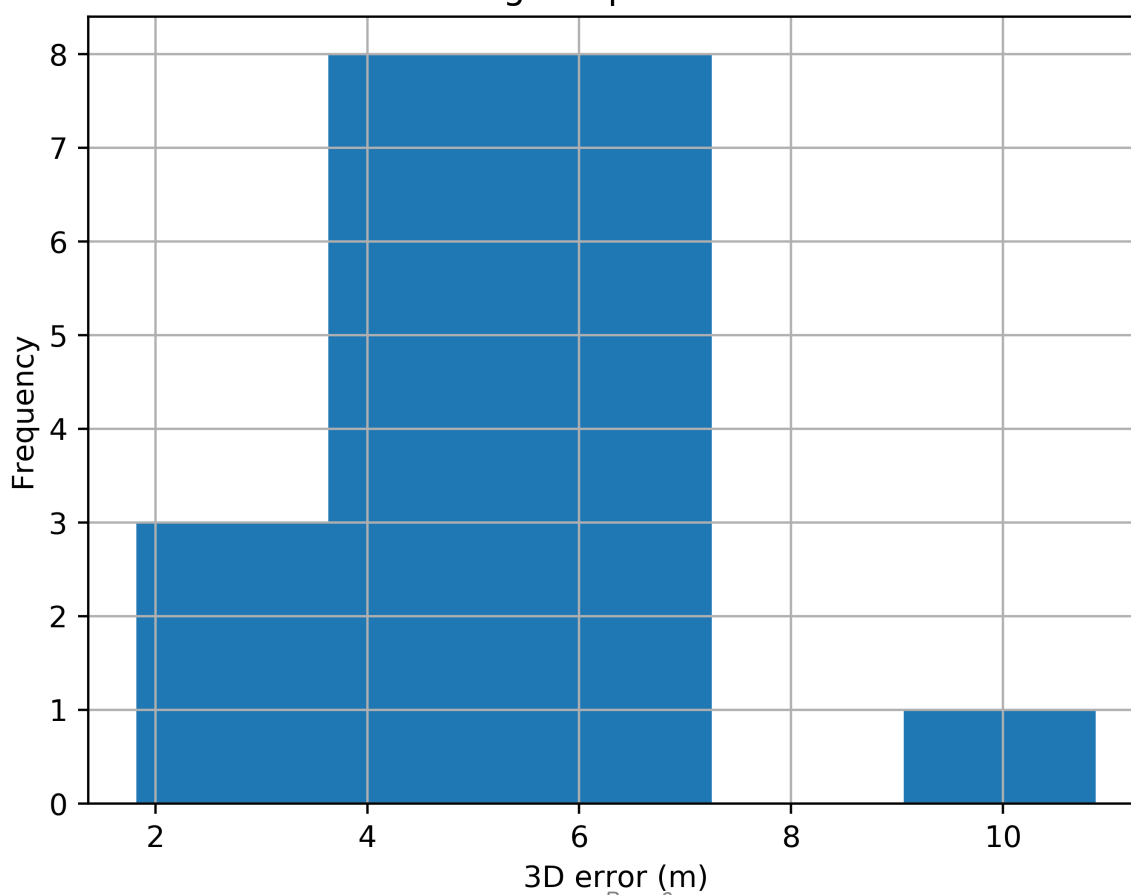


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3D position error with time



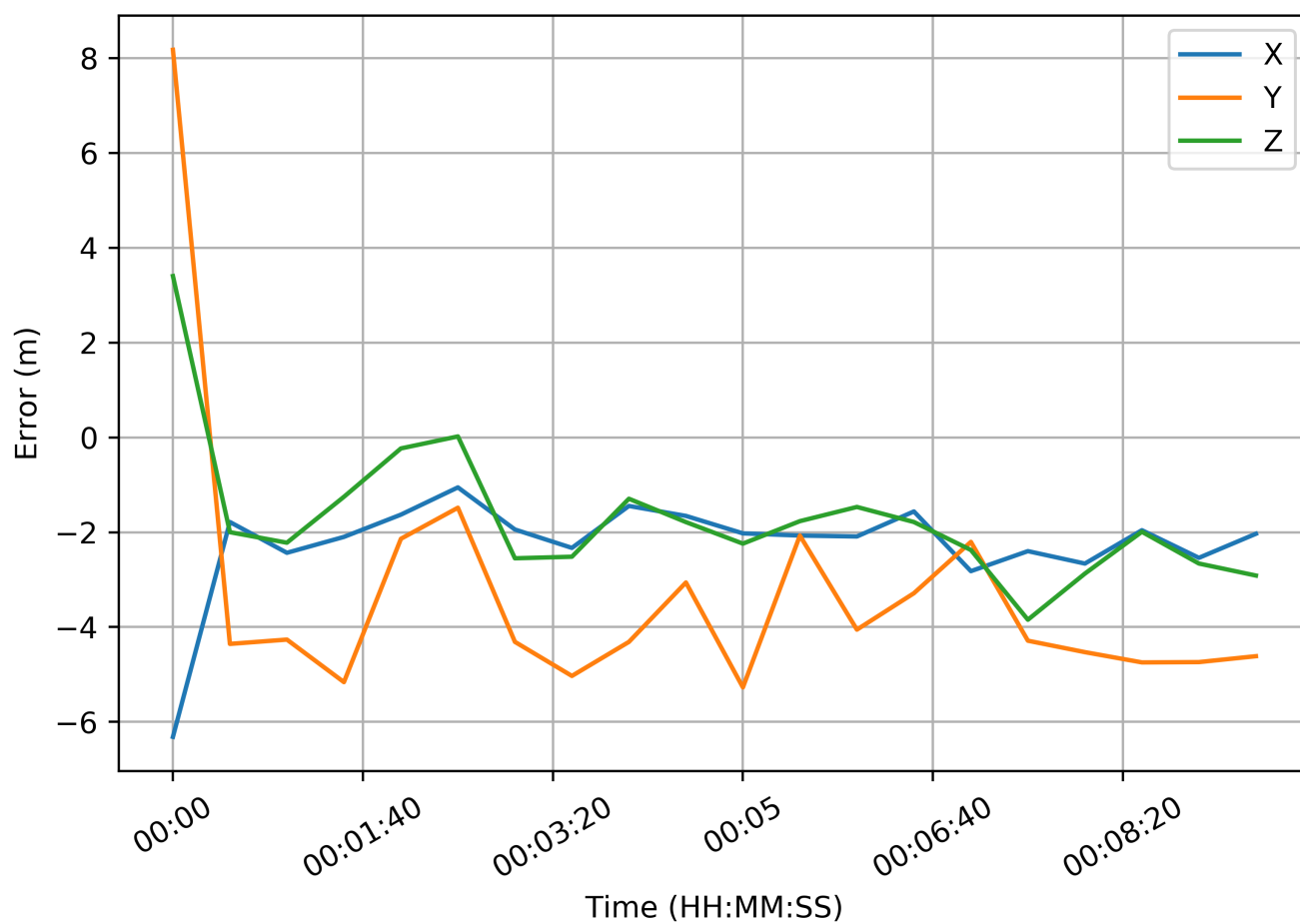
Histogram plot of error



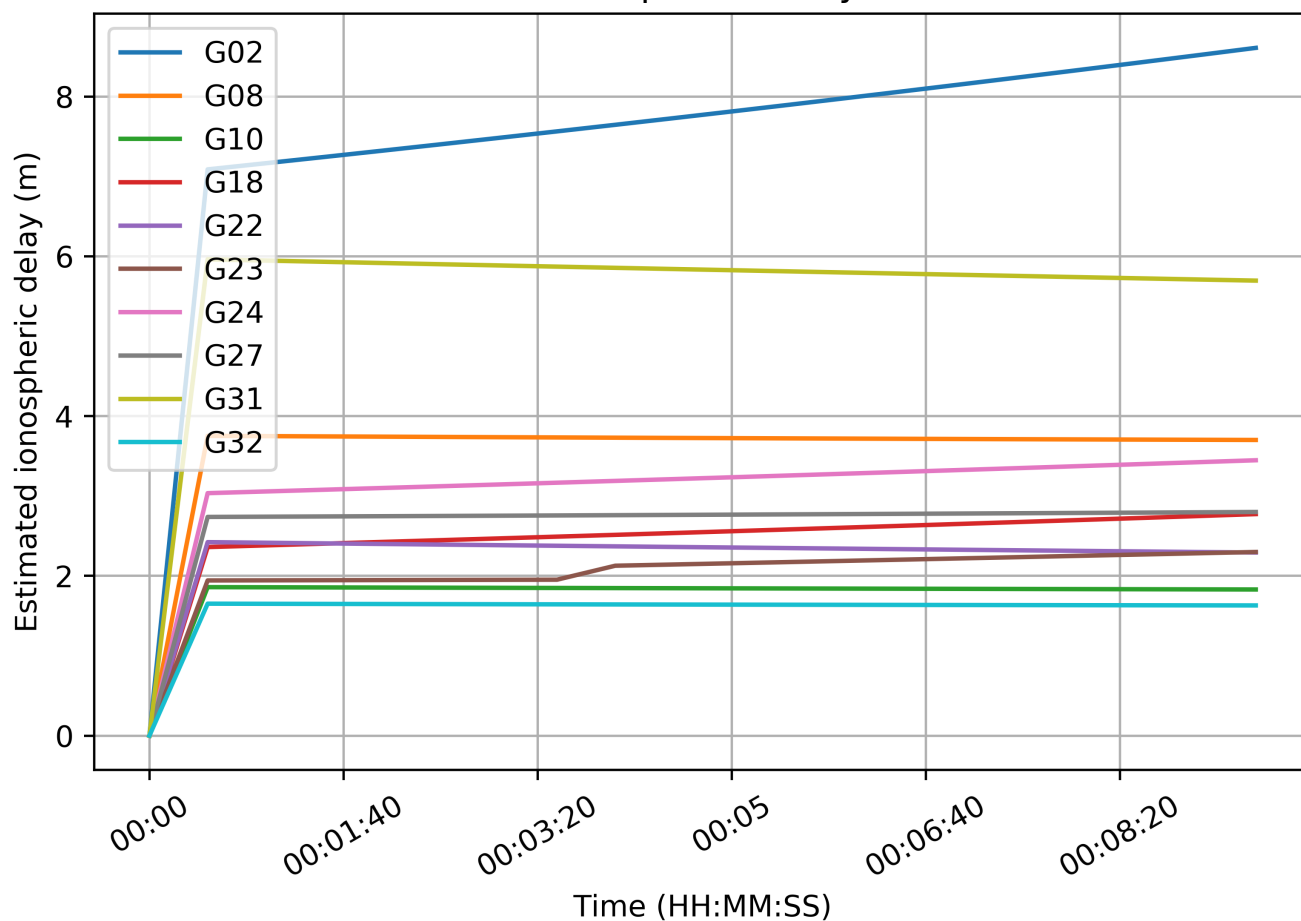


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Position error with time



Ionospheric delay



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