

EarthCARE Orbit Monitoring Report

Orbit Scenario File vs Predicted Orbit Files

Report Generation Date: 2024-06-20T11:00:00

Mission and System Analysis Section (ESTEC/EOP-PES)

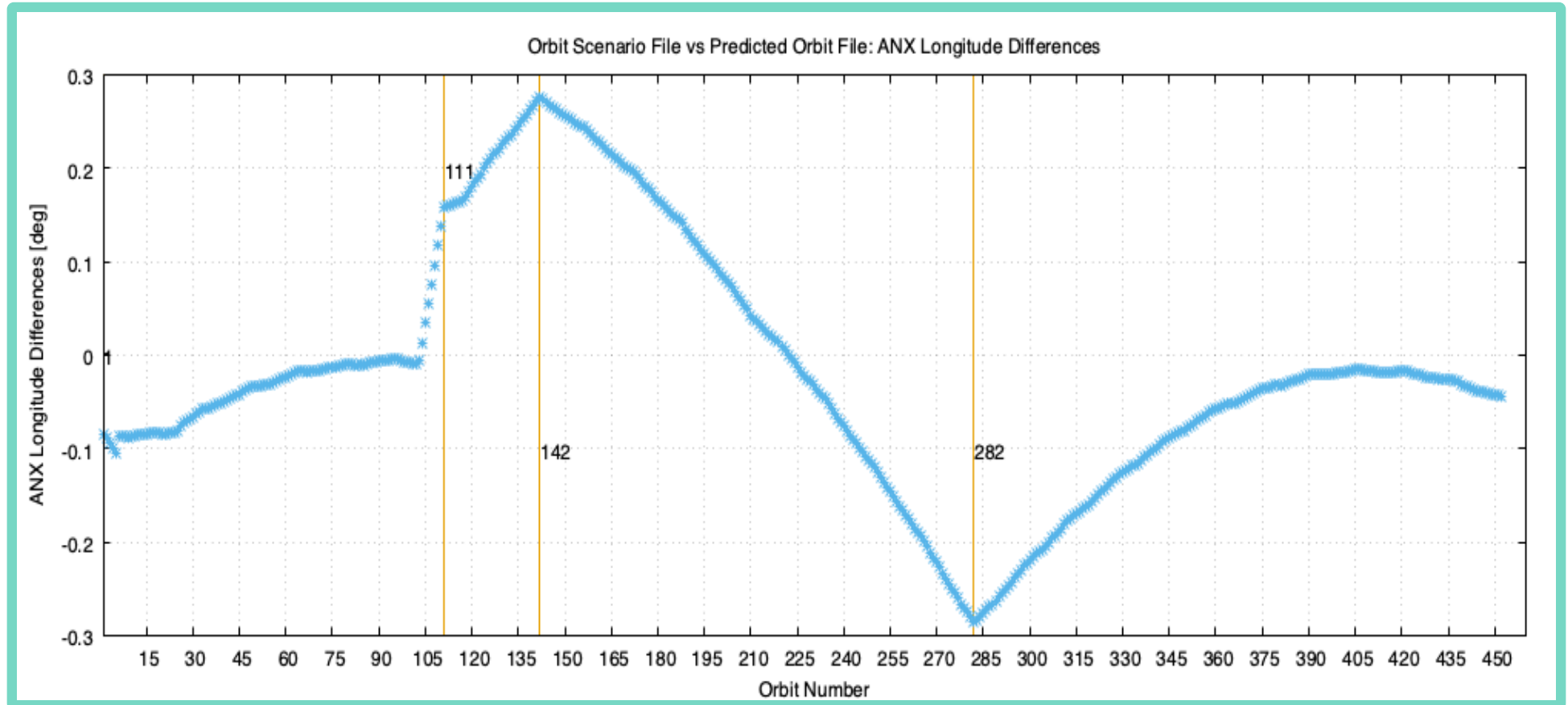
Orbit Scenario File

Filename	ECA_EXAA_MPL_ORBSCT_20240528T214917Z_99999999T9999999Z_0004.EOF
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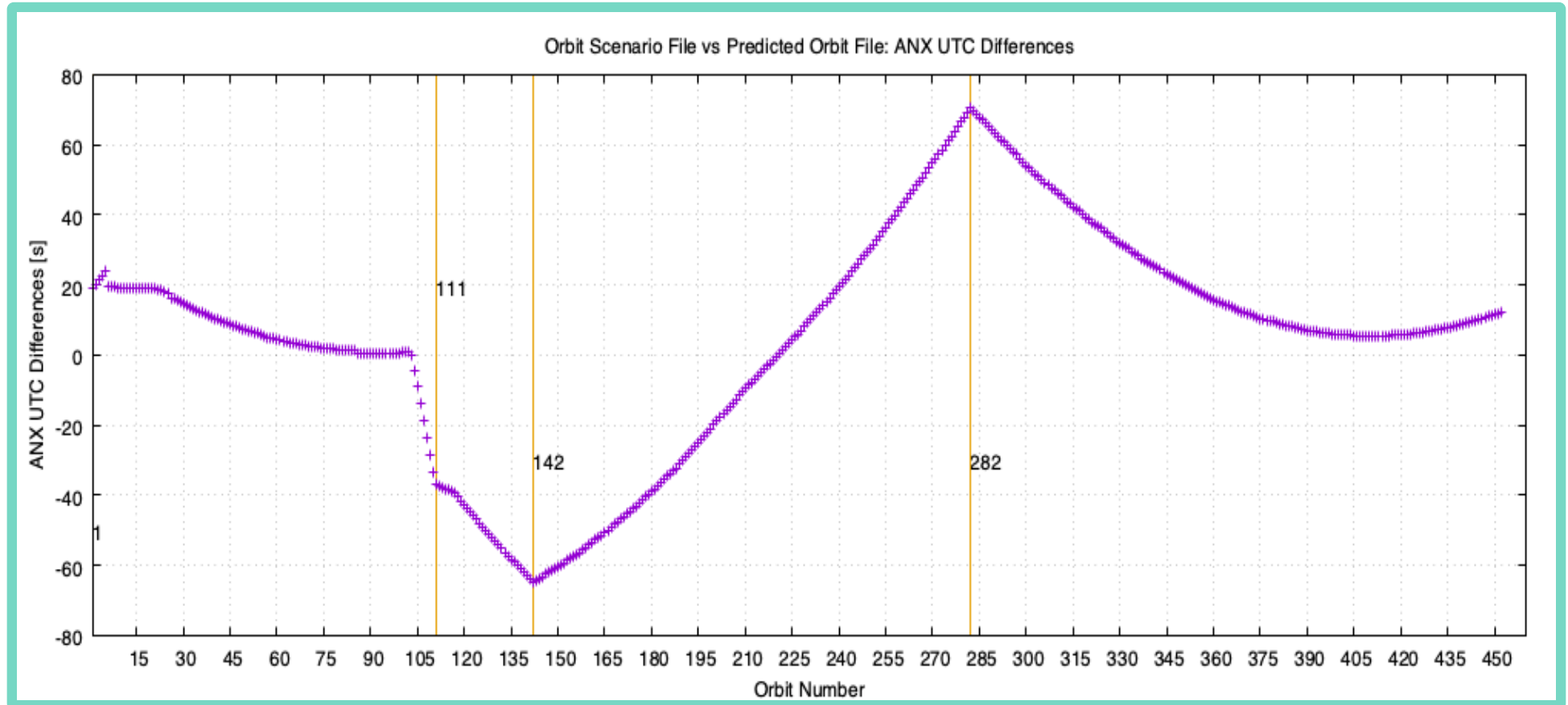
Reported Time Interval

Begin UTC Time	2024-05-28T21:48:58.069953
Begin Absolute Orbit	1
End UTC Time	2024-06-26T22:40:15.972871
End Absolute Orbit	452

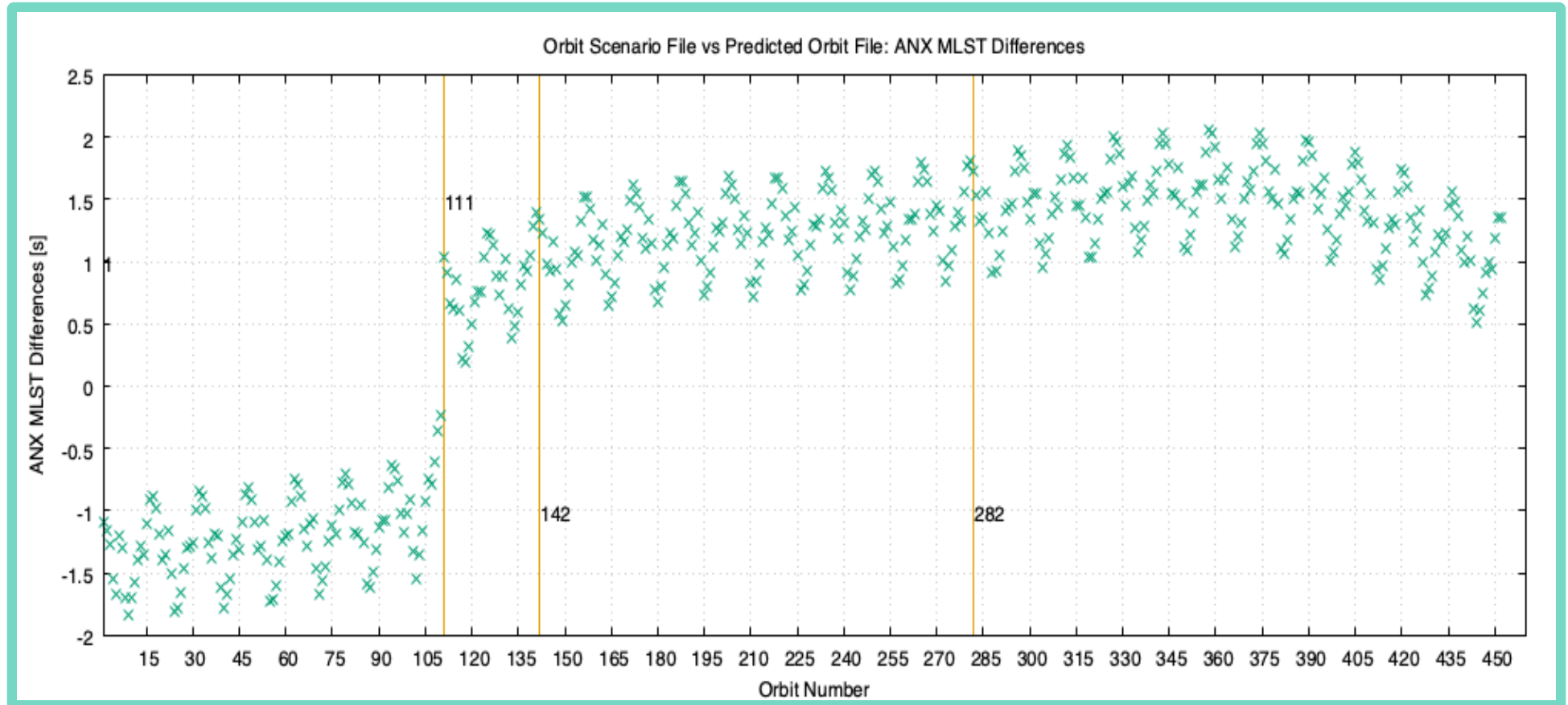
Differences in ANX Longitude



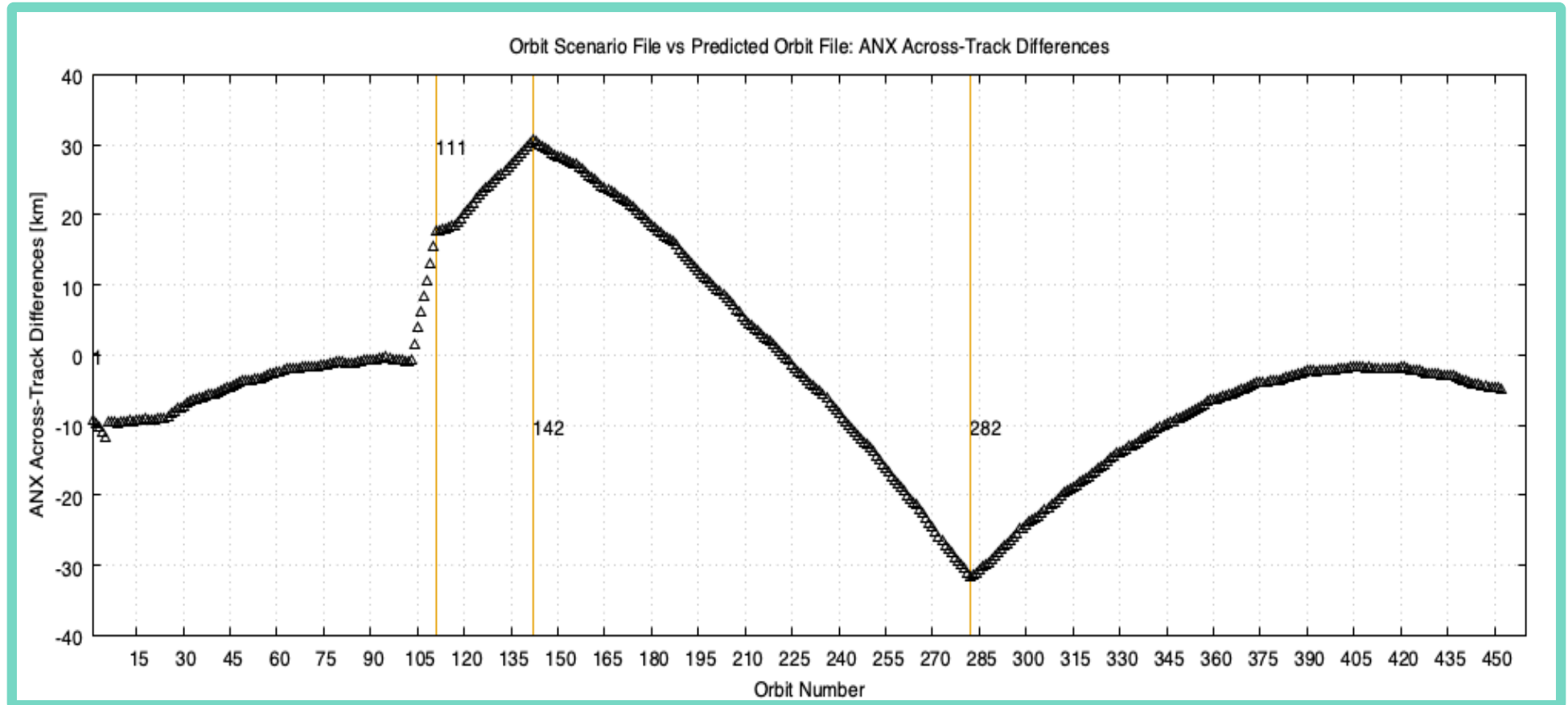
Differences in ANX UTC Time



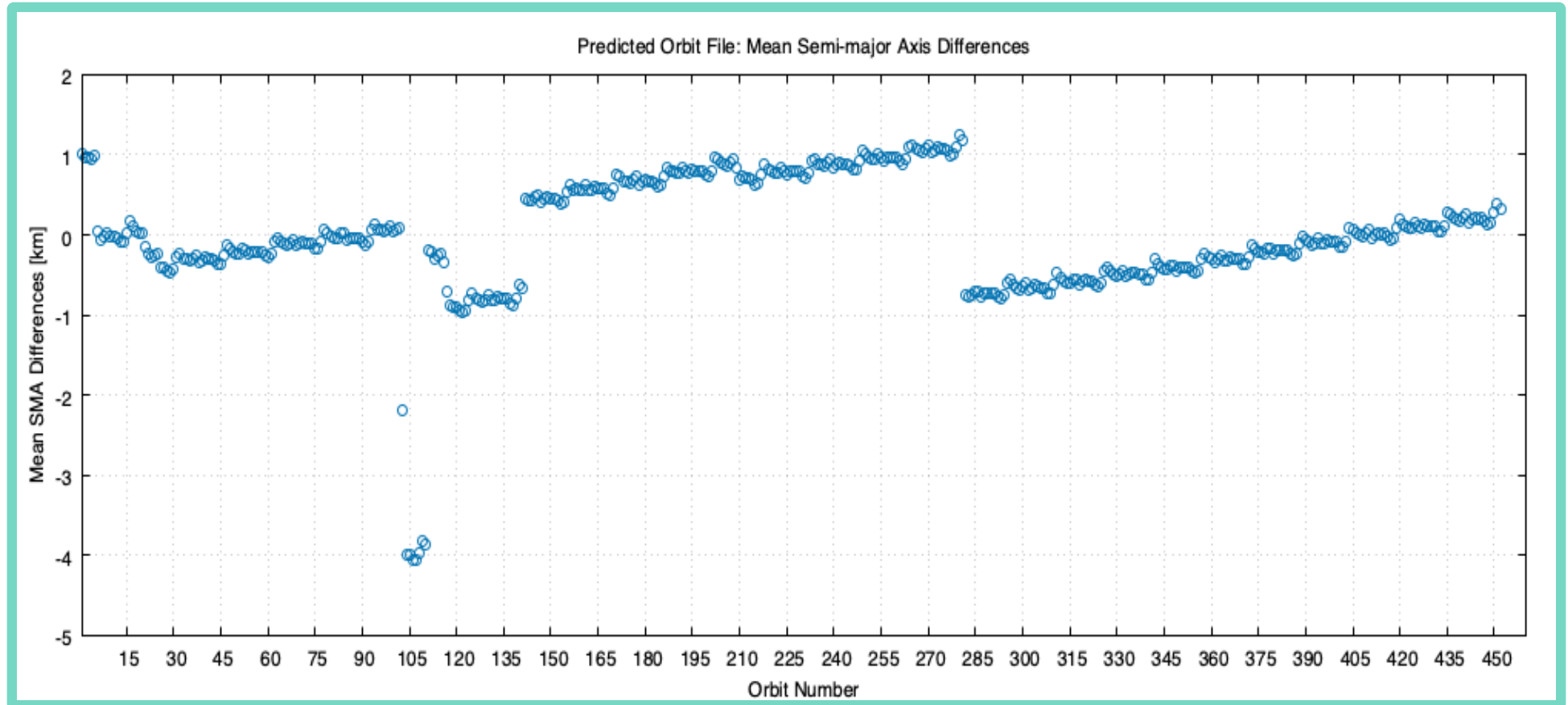
Differences in ANX Mean Local Solar Time



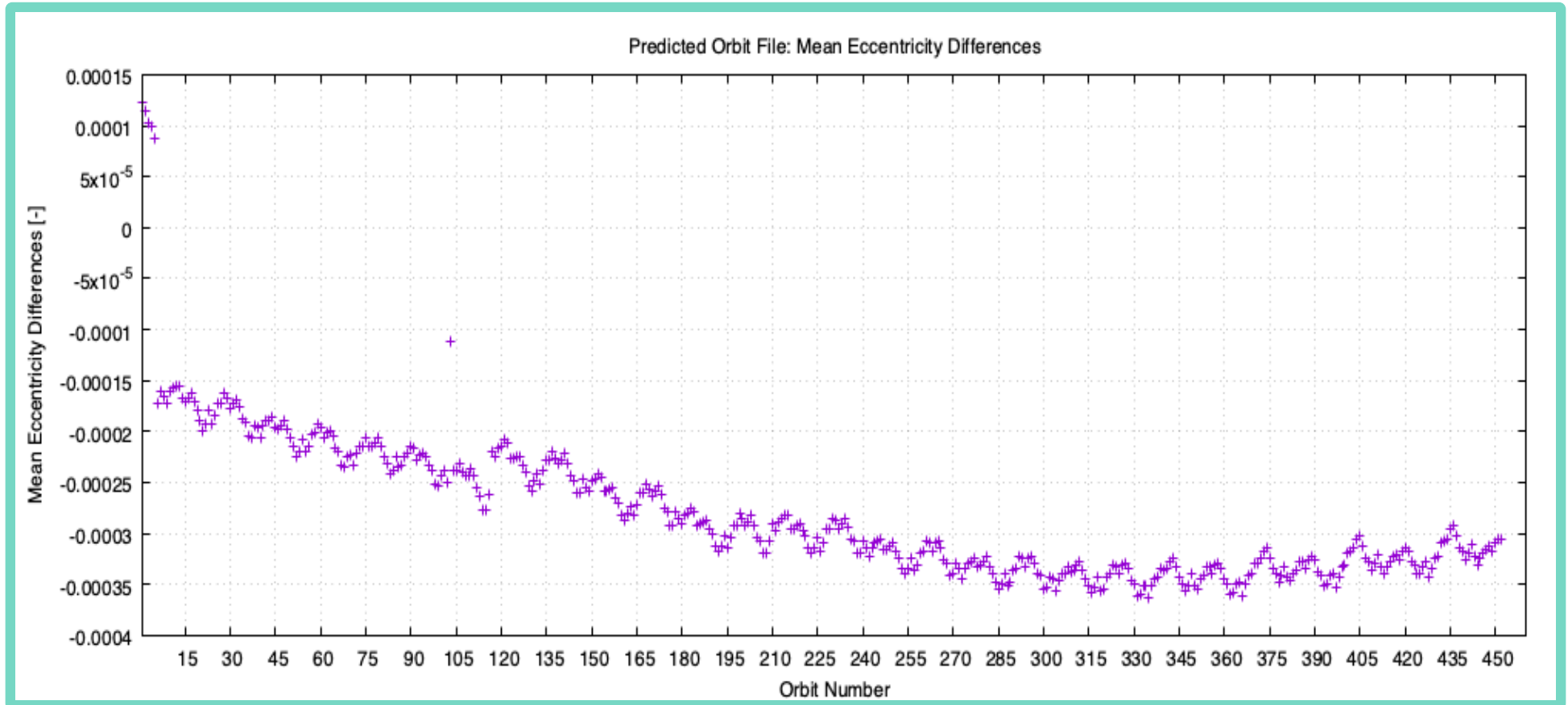
Differences in ANX Across-track



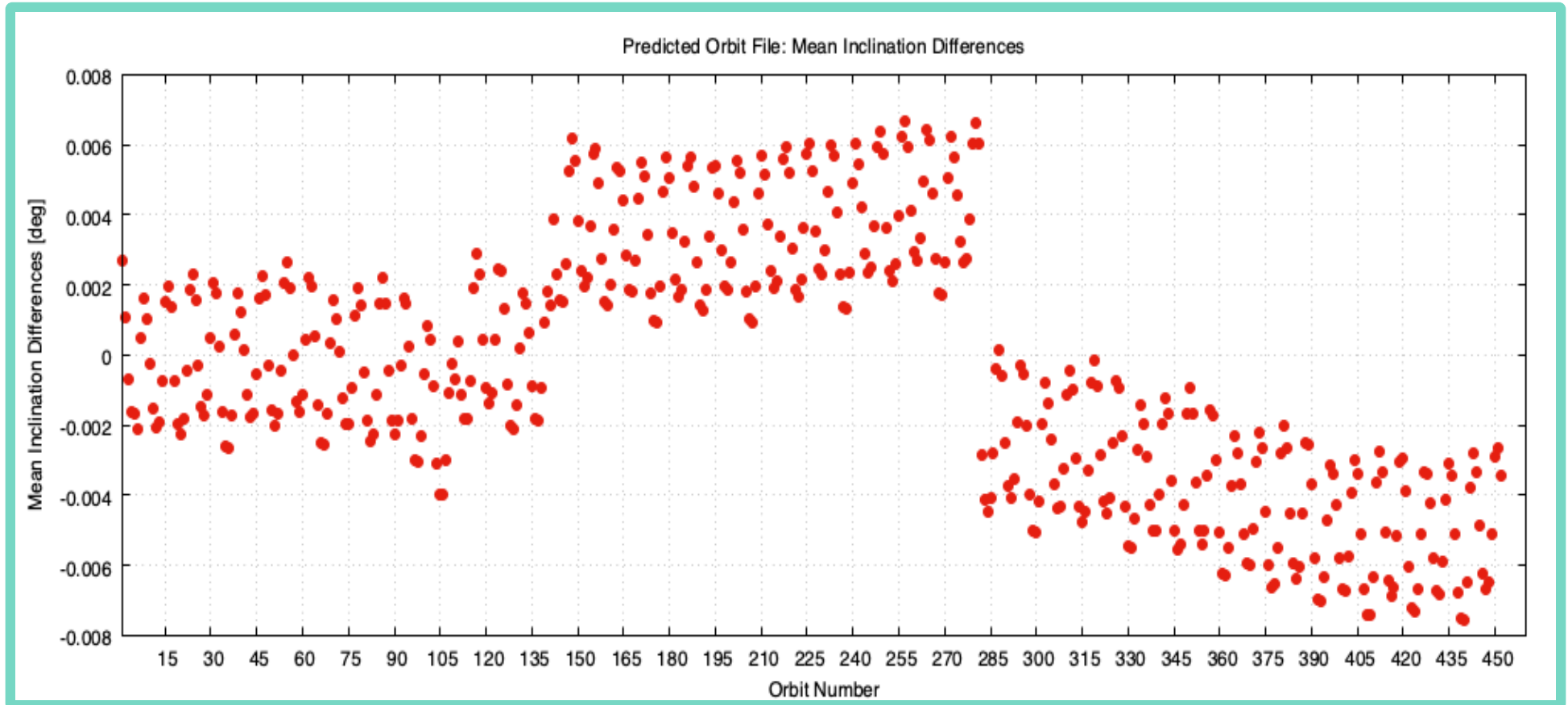
Differences in Mean Semi-major Axis



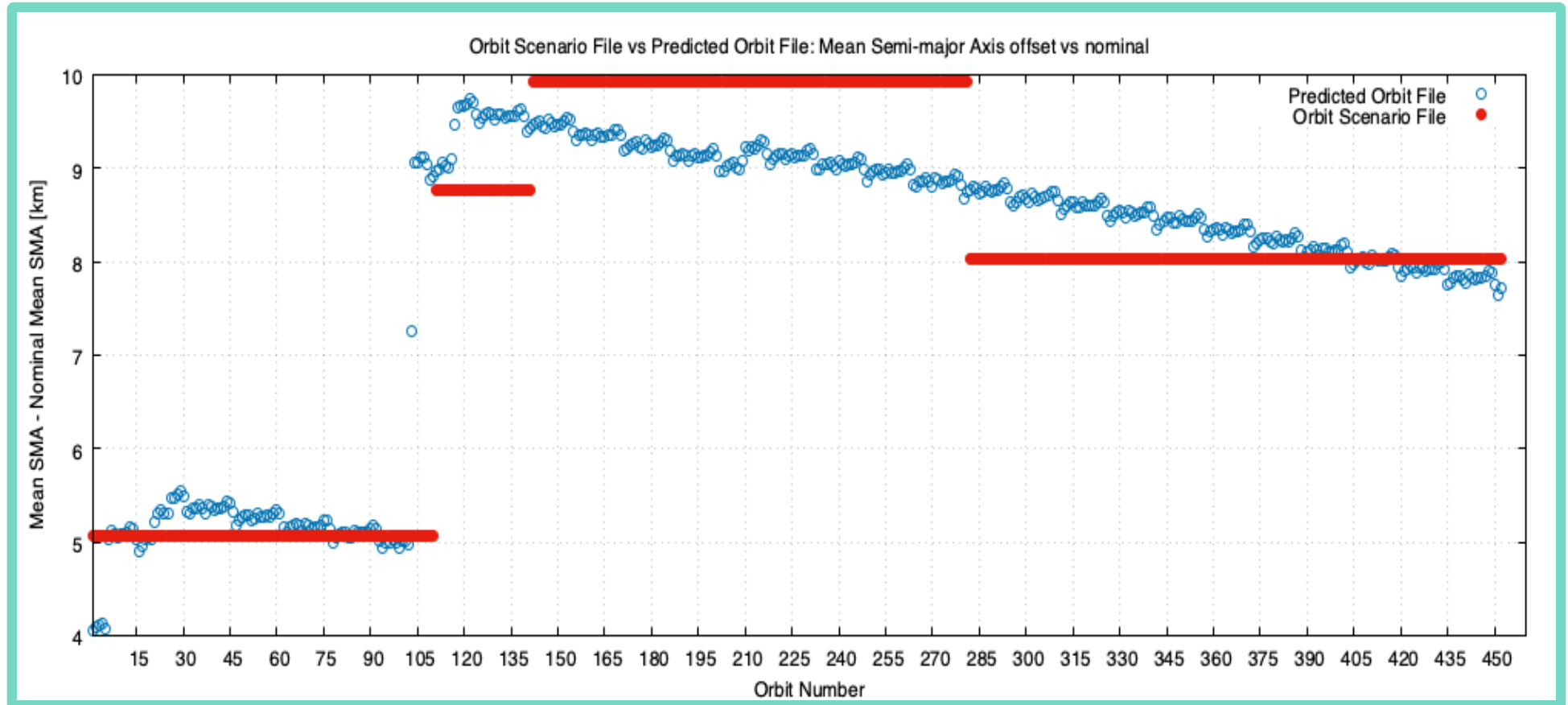
Differences in Eccentricity



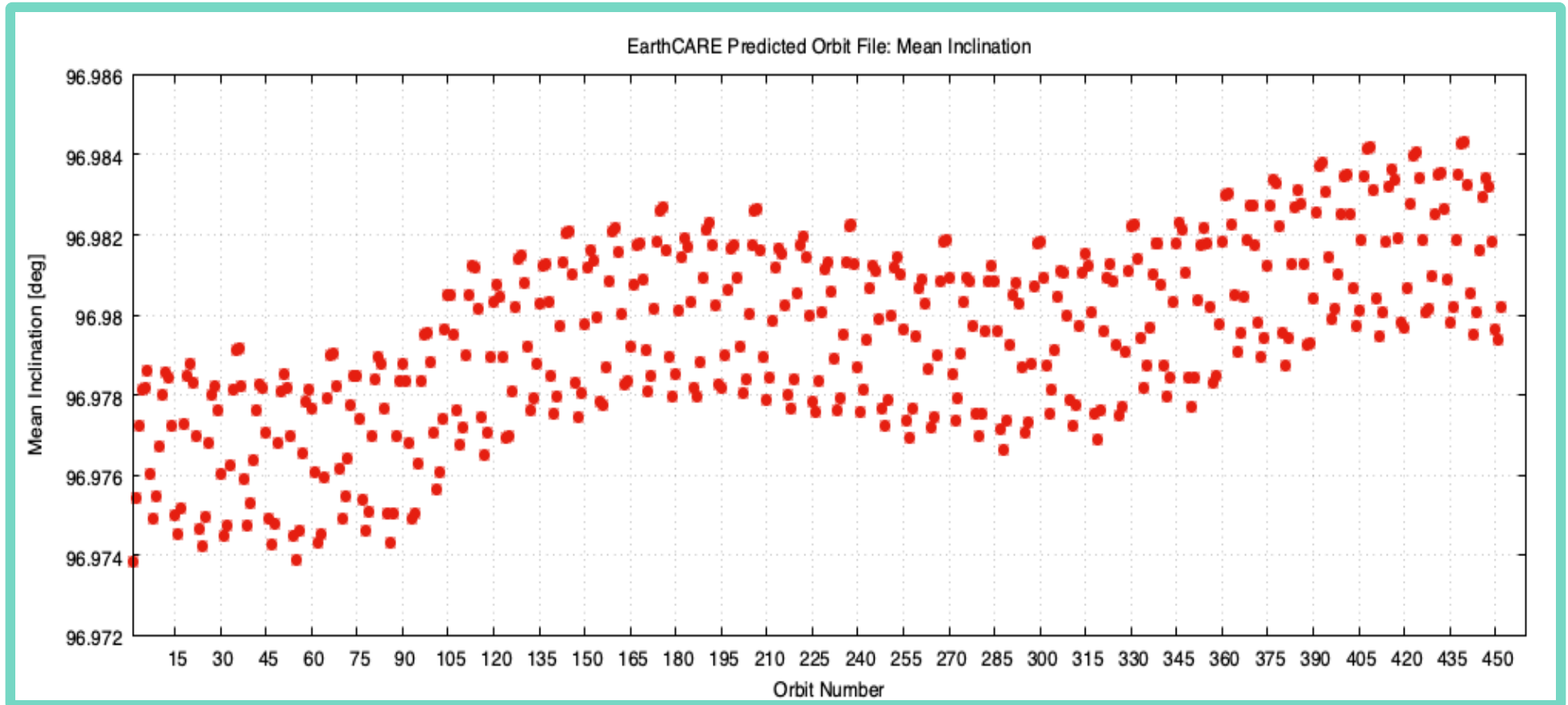
Differences in Mean Inclination



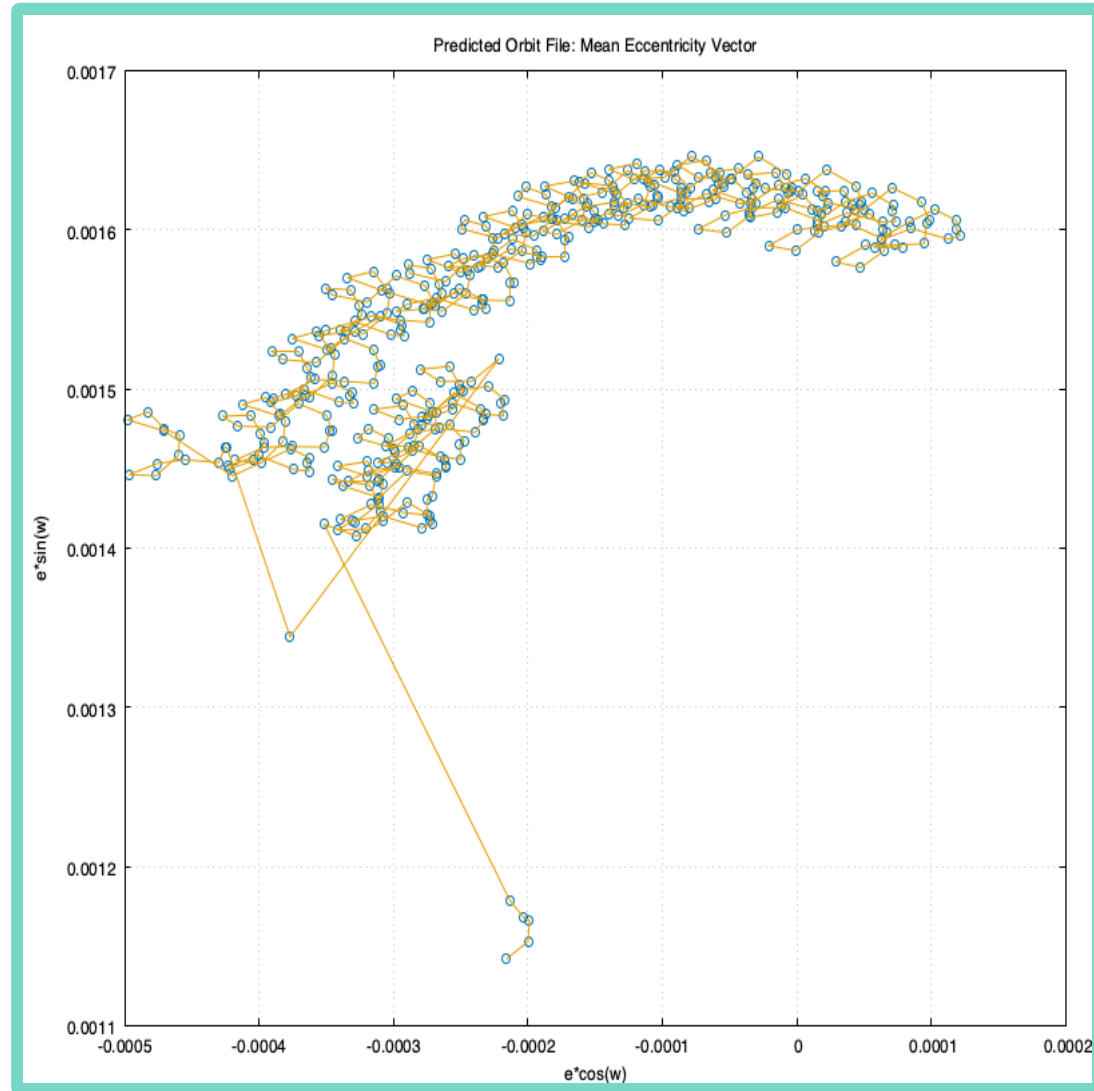
Evolution of Mean Semi-major Axis: Offset vs Nominal SMA



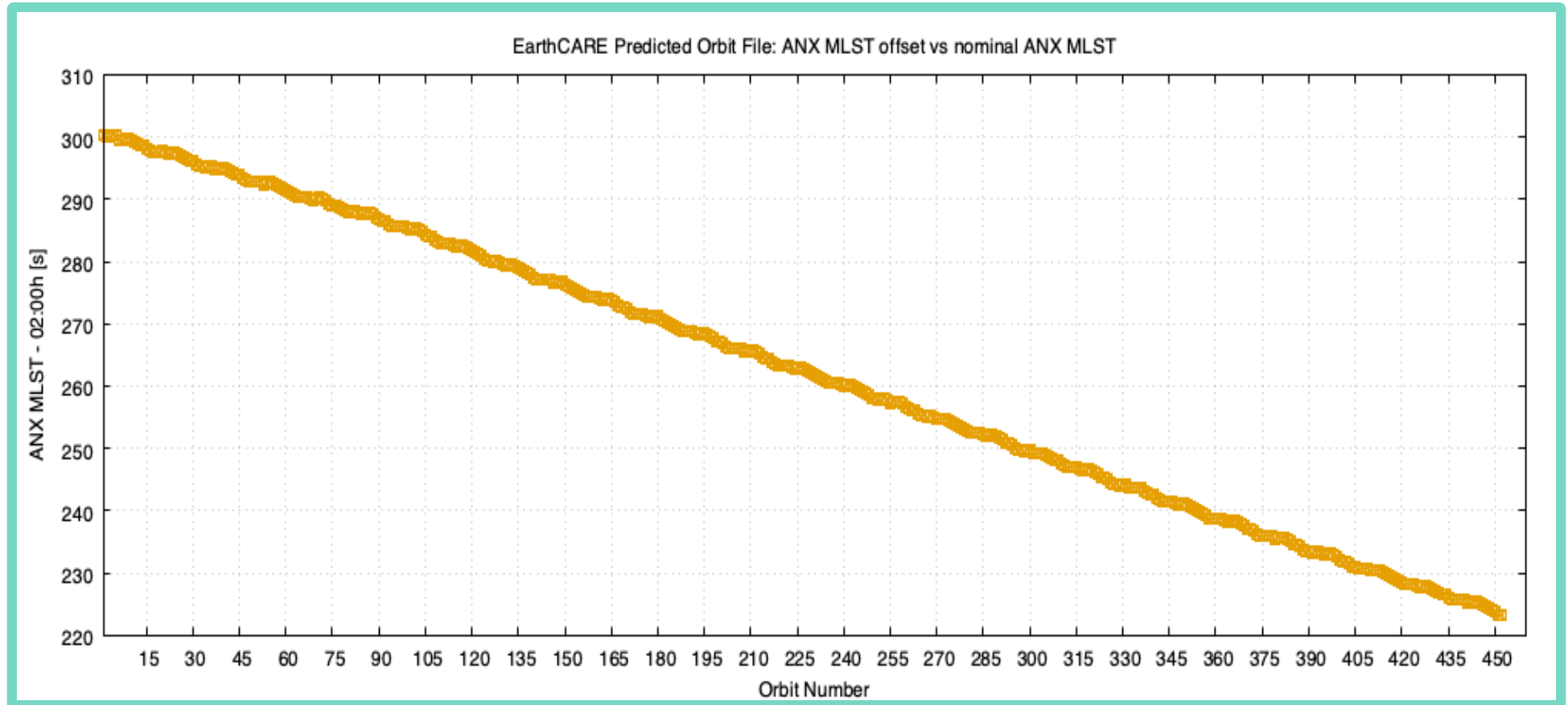
Evolution of Mean Inclination (Predicted Orbit Files)



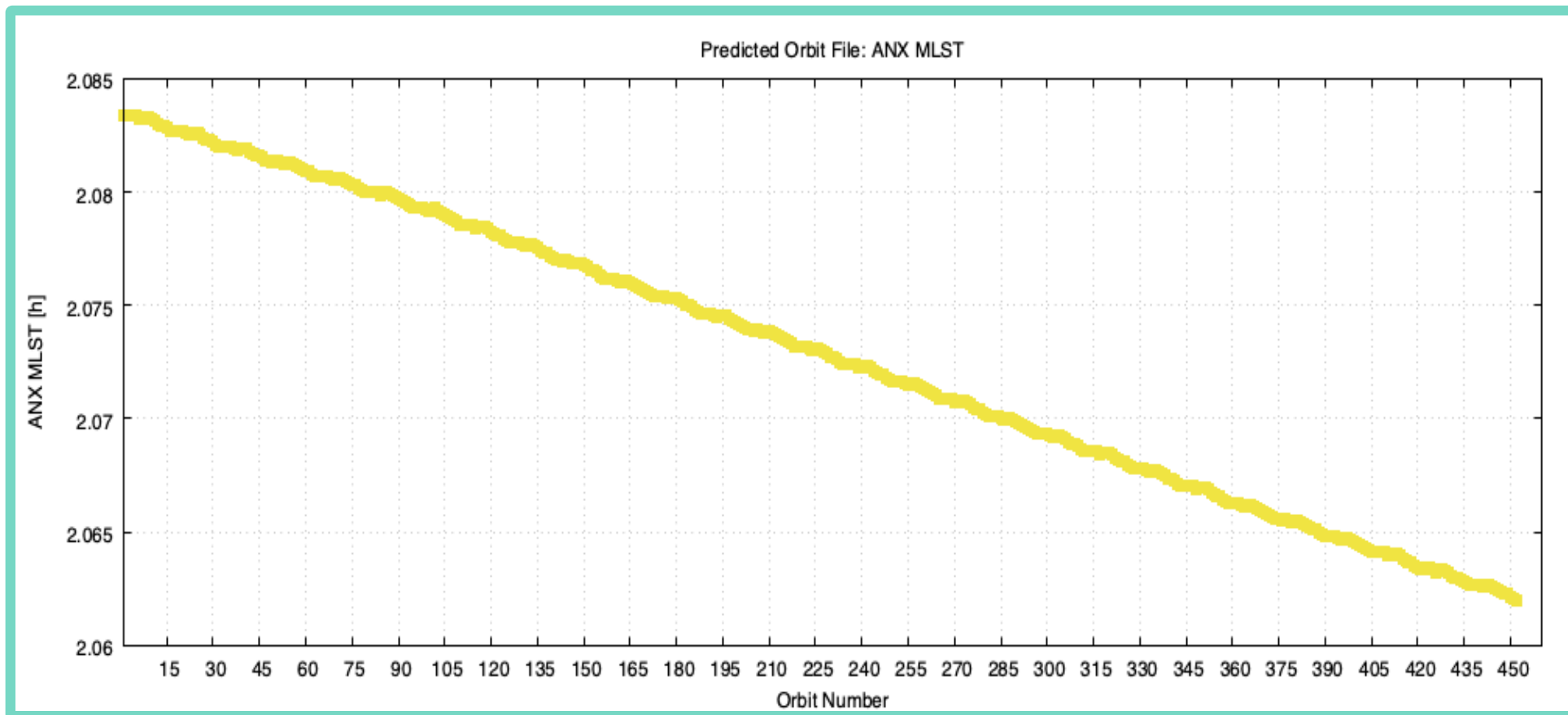
Evolution of Eccentricity Vector (Predicted Orbit Files)



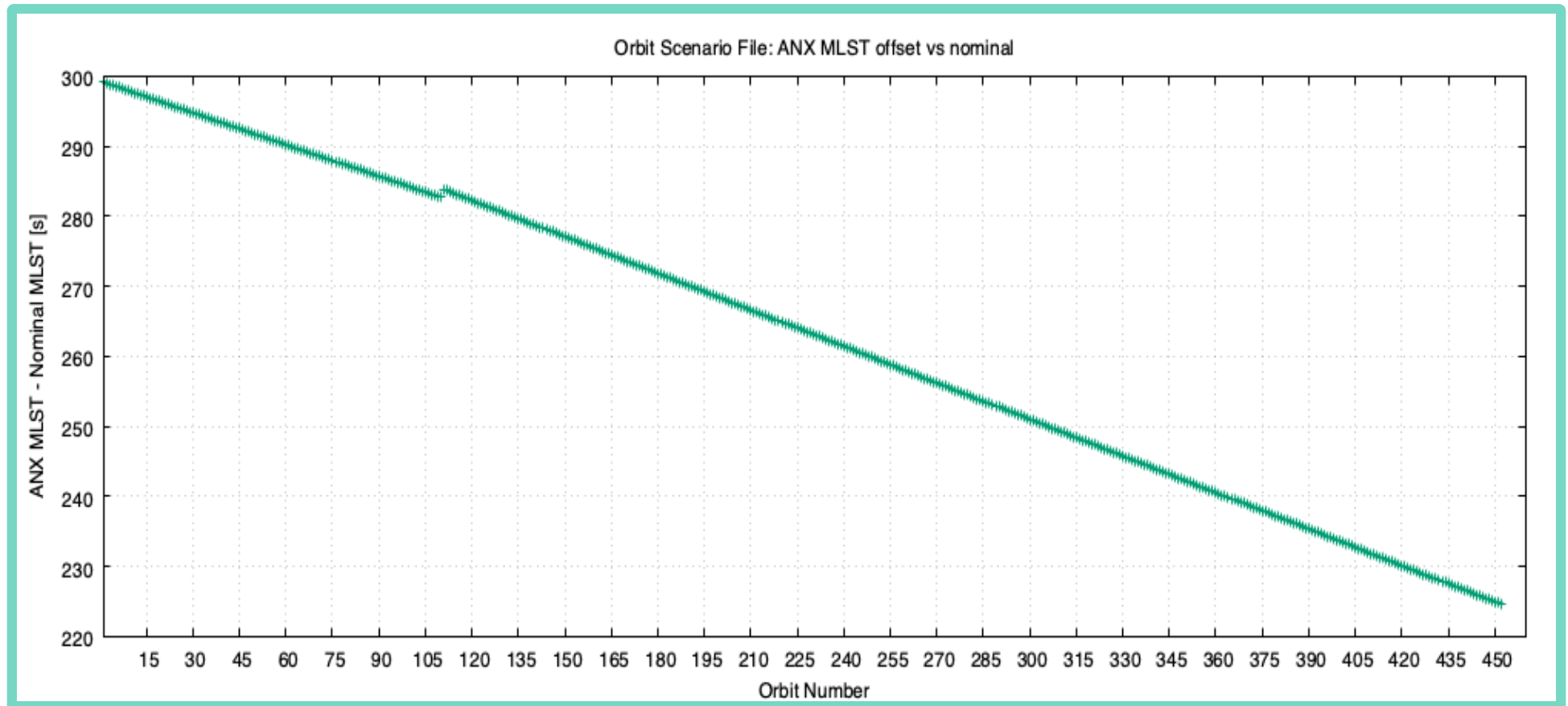
Evolution of ANX Mean Local Solar Time (Predicted Orbit Files): Offset vs Nominal ANX MLST



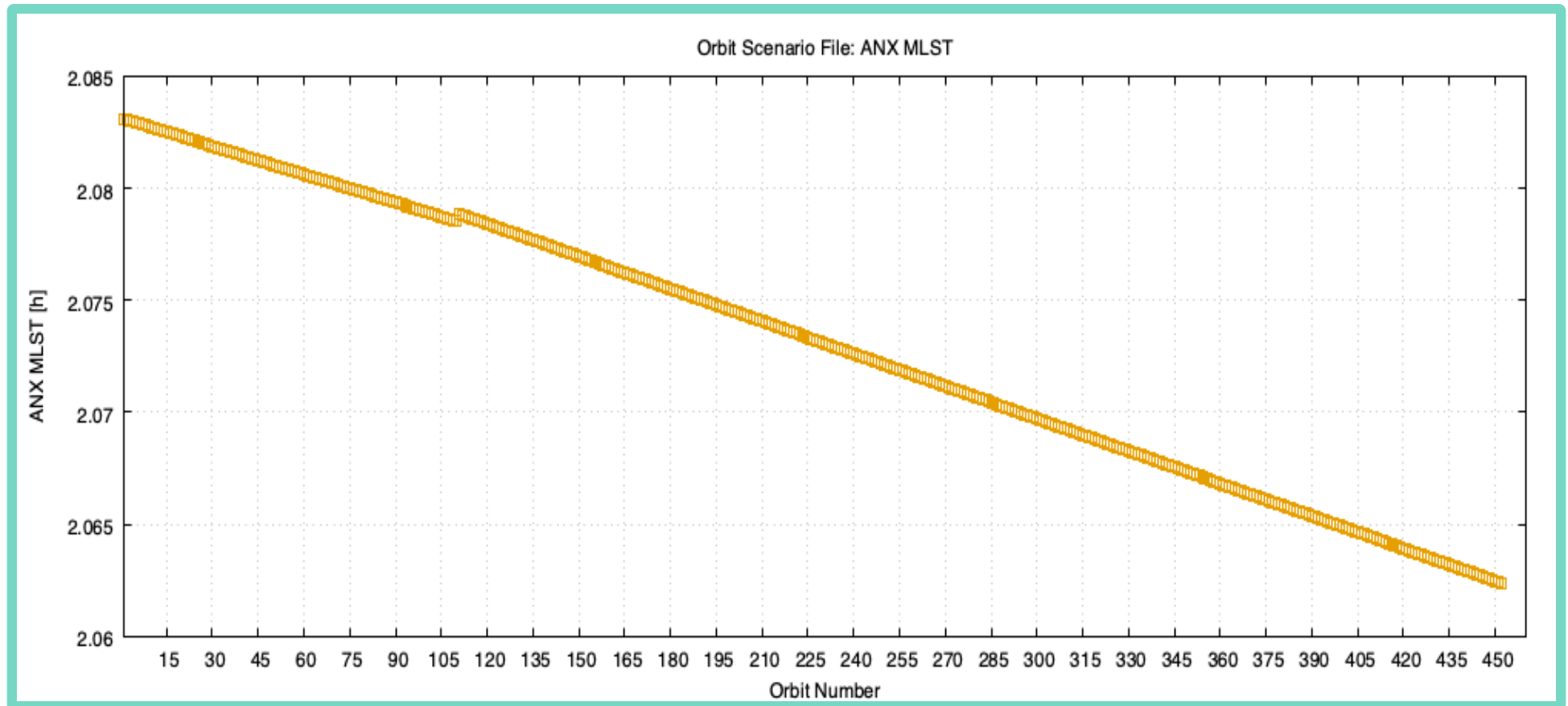
Evolution of ANX Mean Local Solar Time (Predicted Orbit Files): ANX MLST



Long-Term Evolution of ANX Mean Local Solar Time (Orbit Scenario File): Offset vs Nominal ANX MLST



Long-Term Evolution of ANX Mean Local Solar Time (Orbit Scenario File): ANX MLST



Long-Term Evolution of Mean Semi-major Axis (Orbit Scenario File): Nominal SMA vs Mean SMA

