

# EarthCARE Orbit Monitoring Report

## Orbit Scenario File vs Predicted Orbit Files

Report Generation Date: 2024-07-01T09:00:00

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

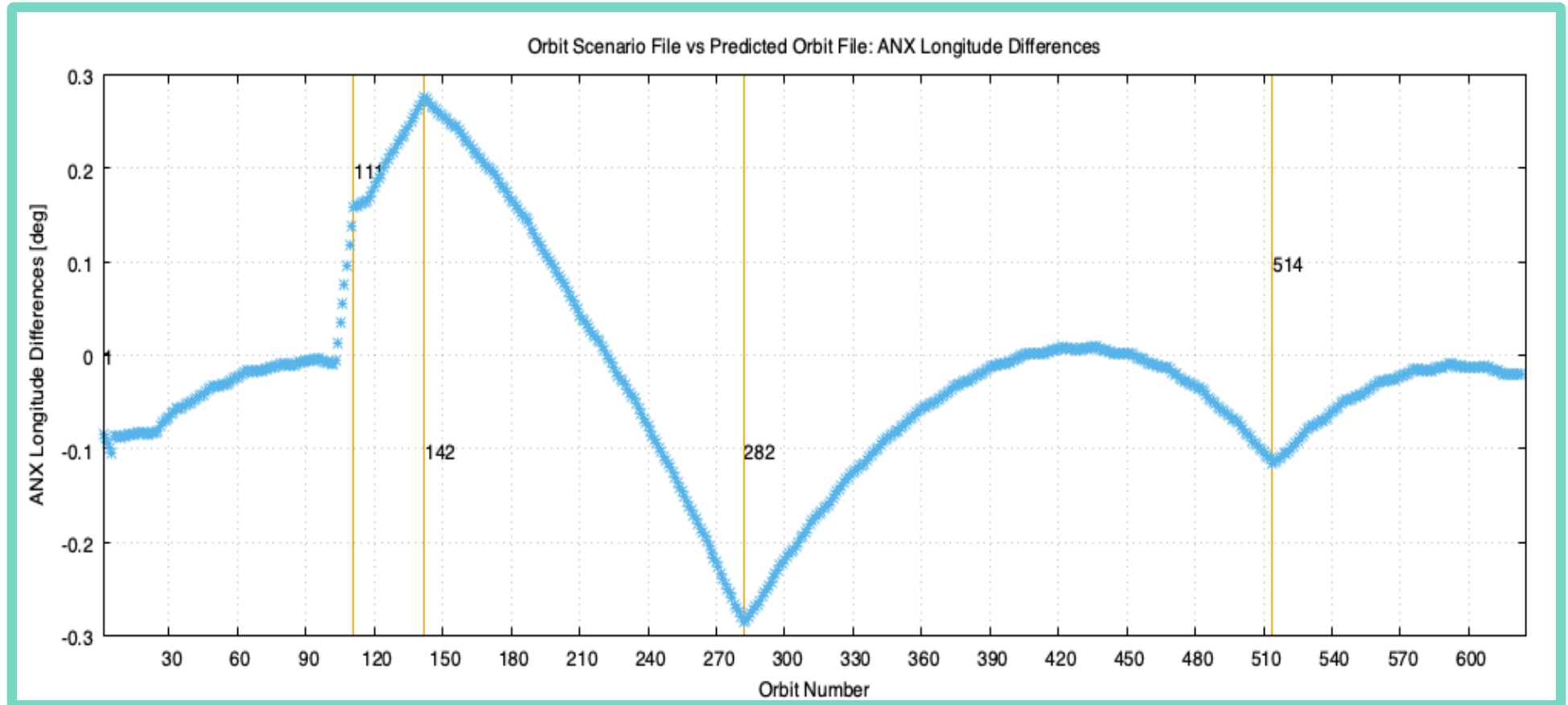
### Orbit Scenario File

<b>Filename</b>	ECA_EXAA_MPL_ORBSCT_20240528T214917Z_99999999T9999999Z_0006.EOF
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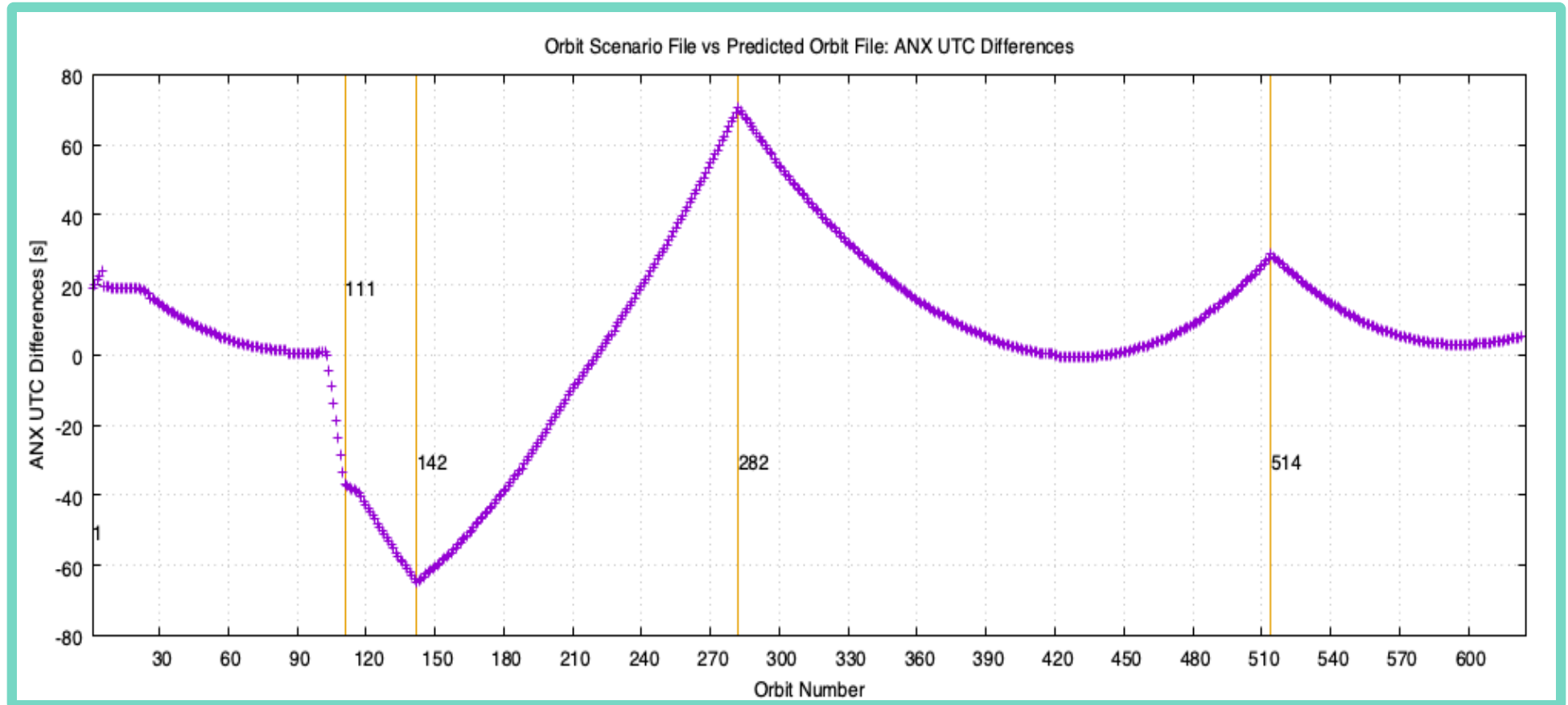
### Reported Time Interval

<b>Begin UTC Time</b>	2024-05-28T21:48:58.069953
<b>Begin Absolute Orbit</b>	1
<b>End UTC Time</b>	2024-07-07T22:51:14.838399
<b>End Absolute Orbit</b>	623

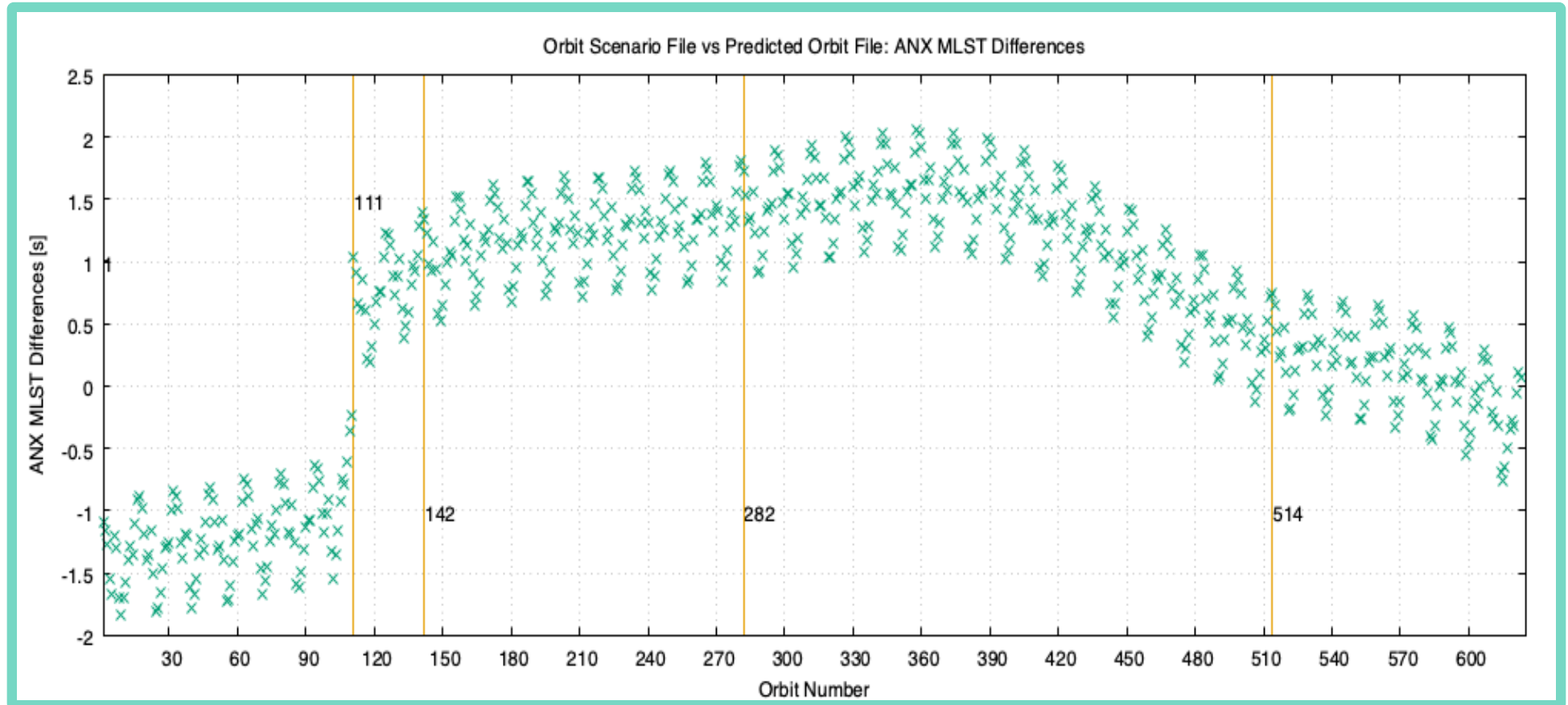
# Differences in ANX Longitude



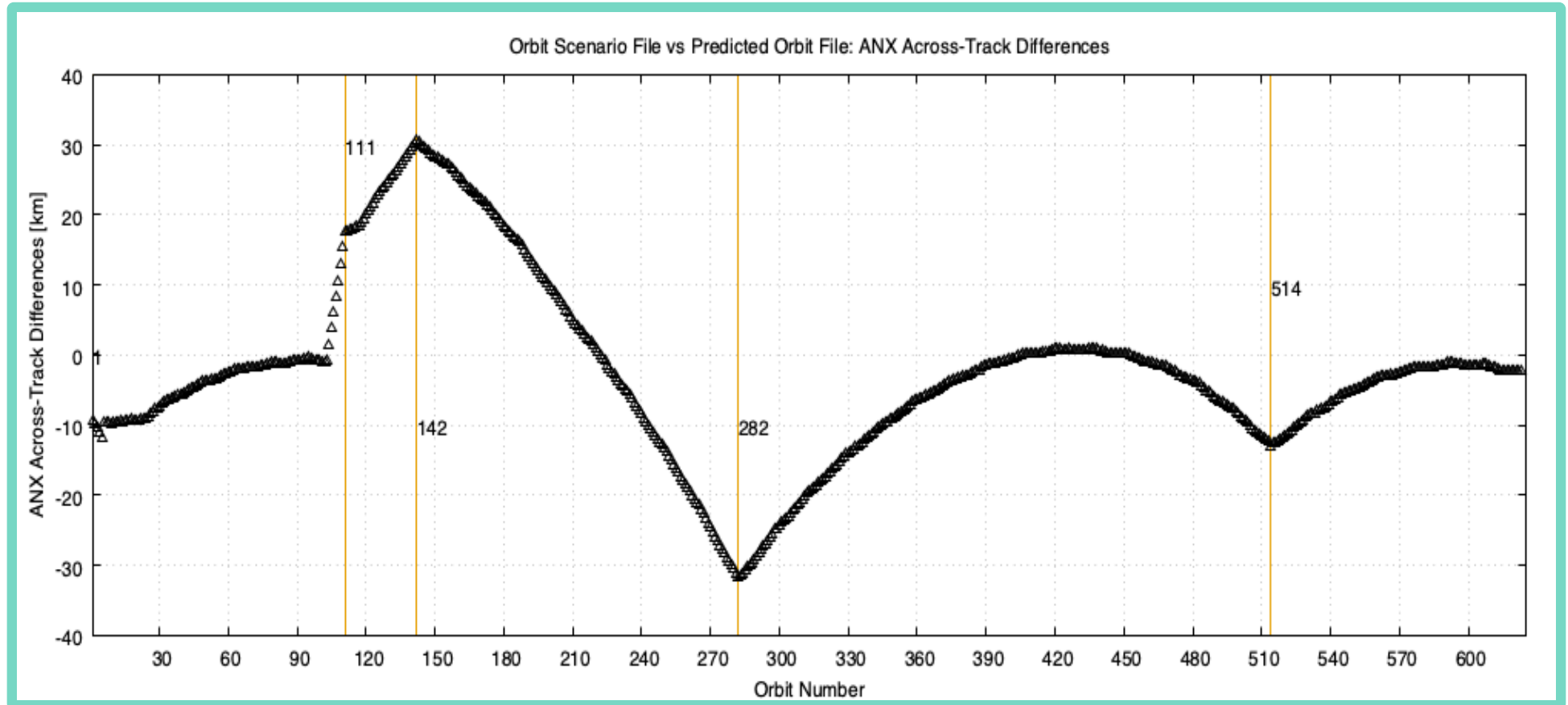
# Differences in ANX UTC Time



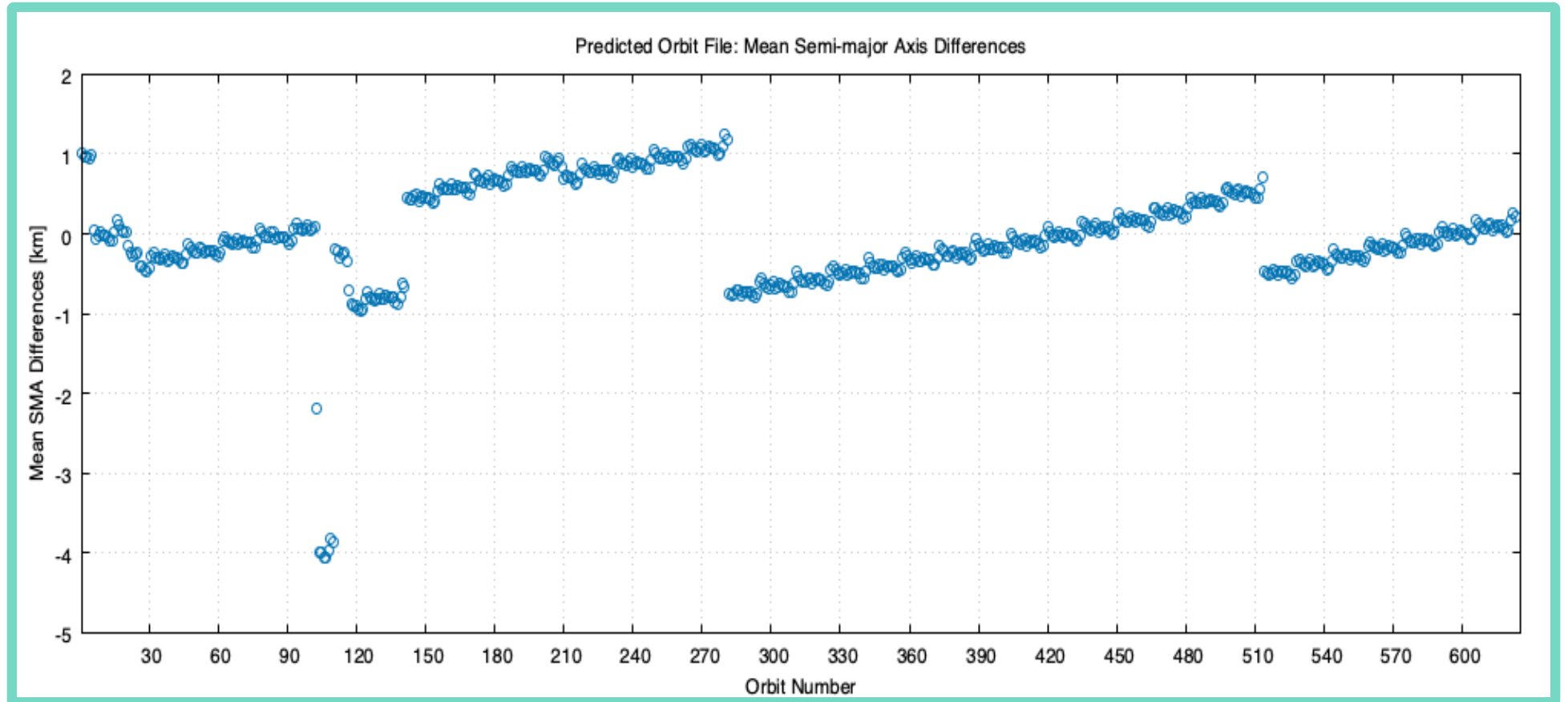
# Differences in ANX Mean Local Solar Time



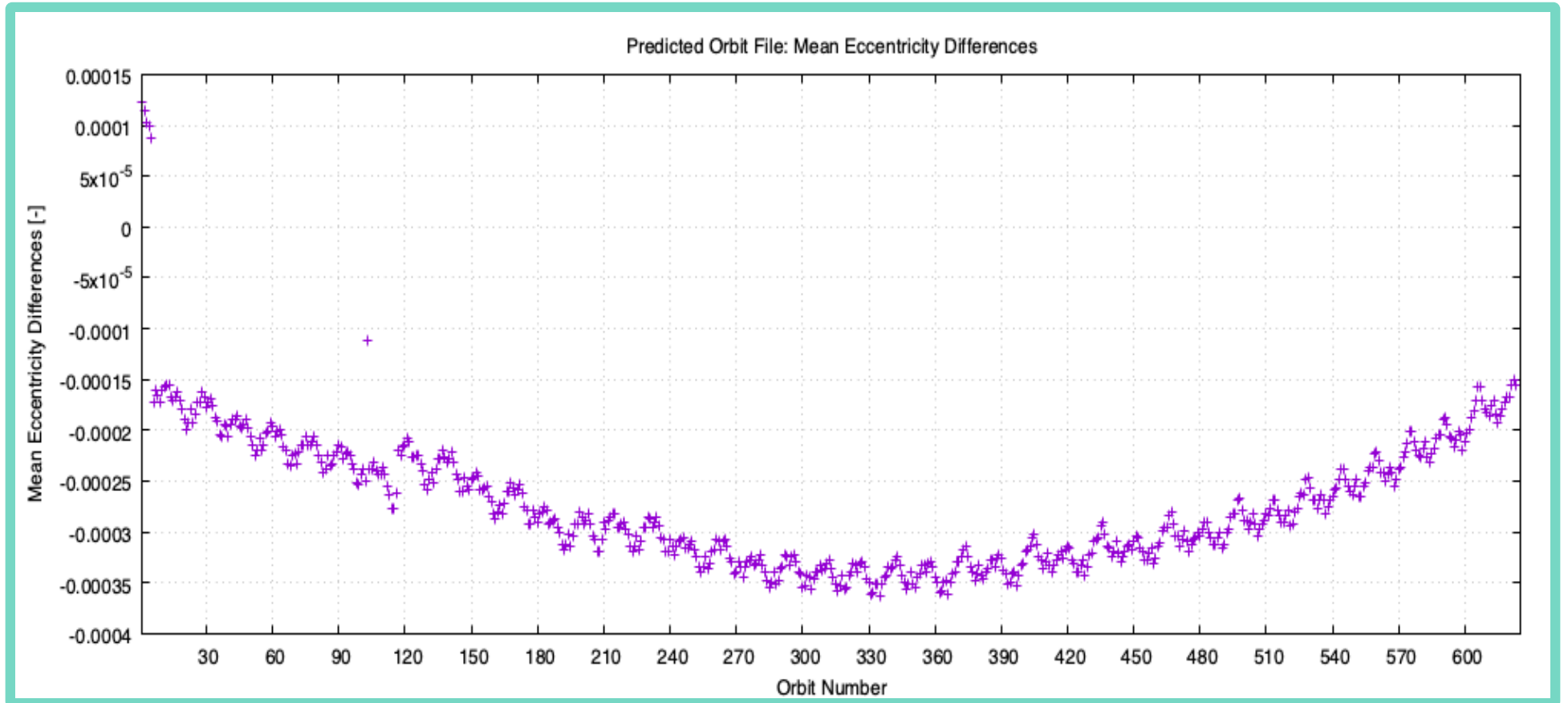
# Differences in ANX Across-track



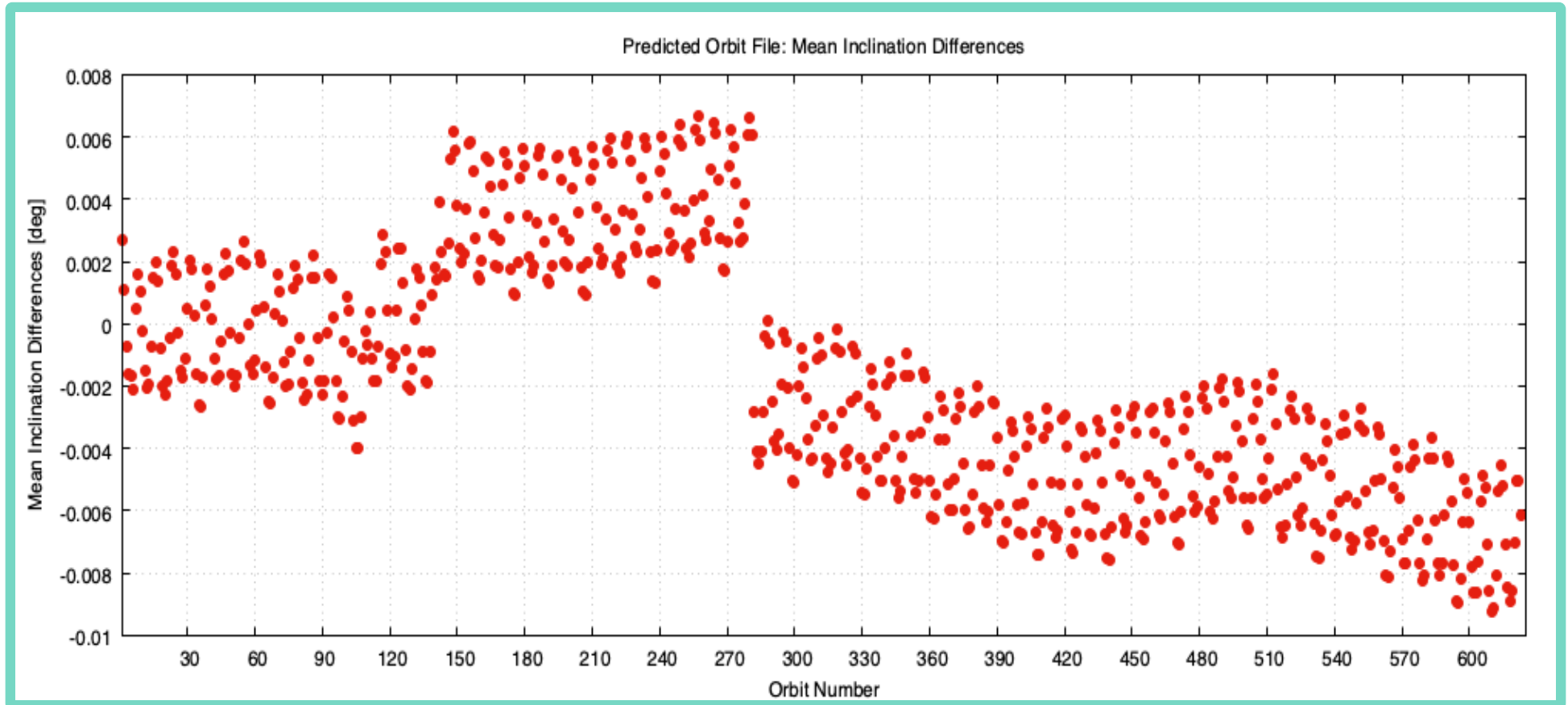
# Differences in Mean Semi-major Axis



# Differences in Eccentricity

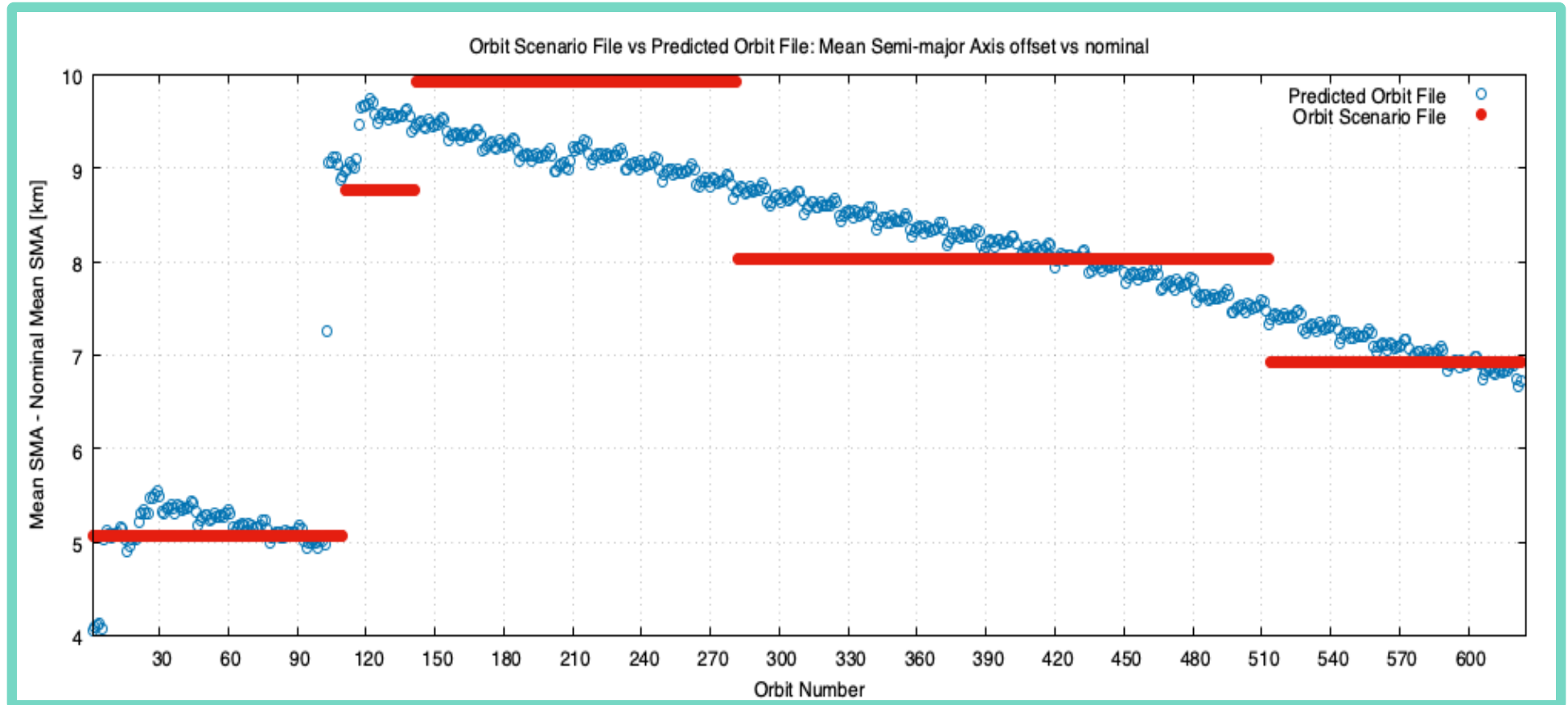


# Differences in Mean Inclination

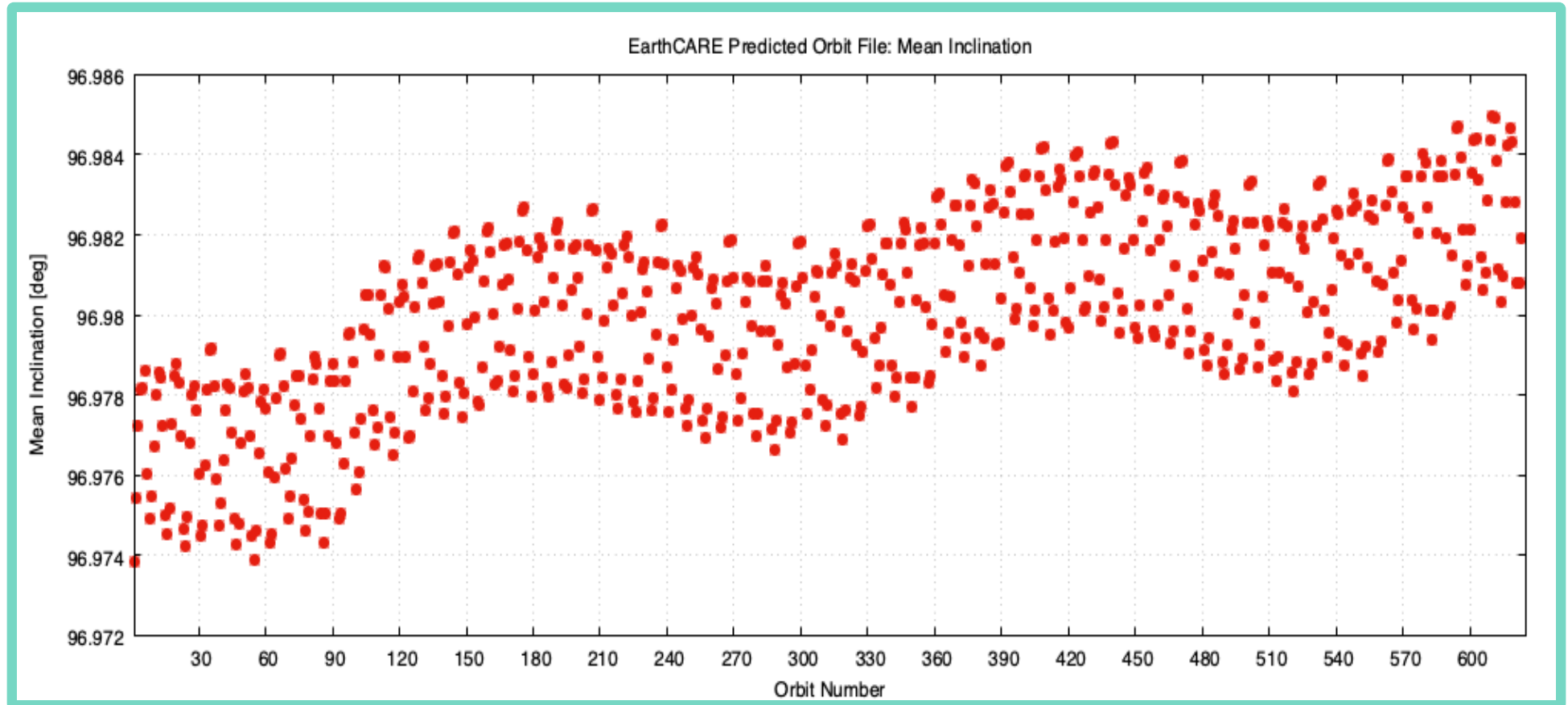




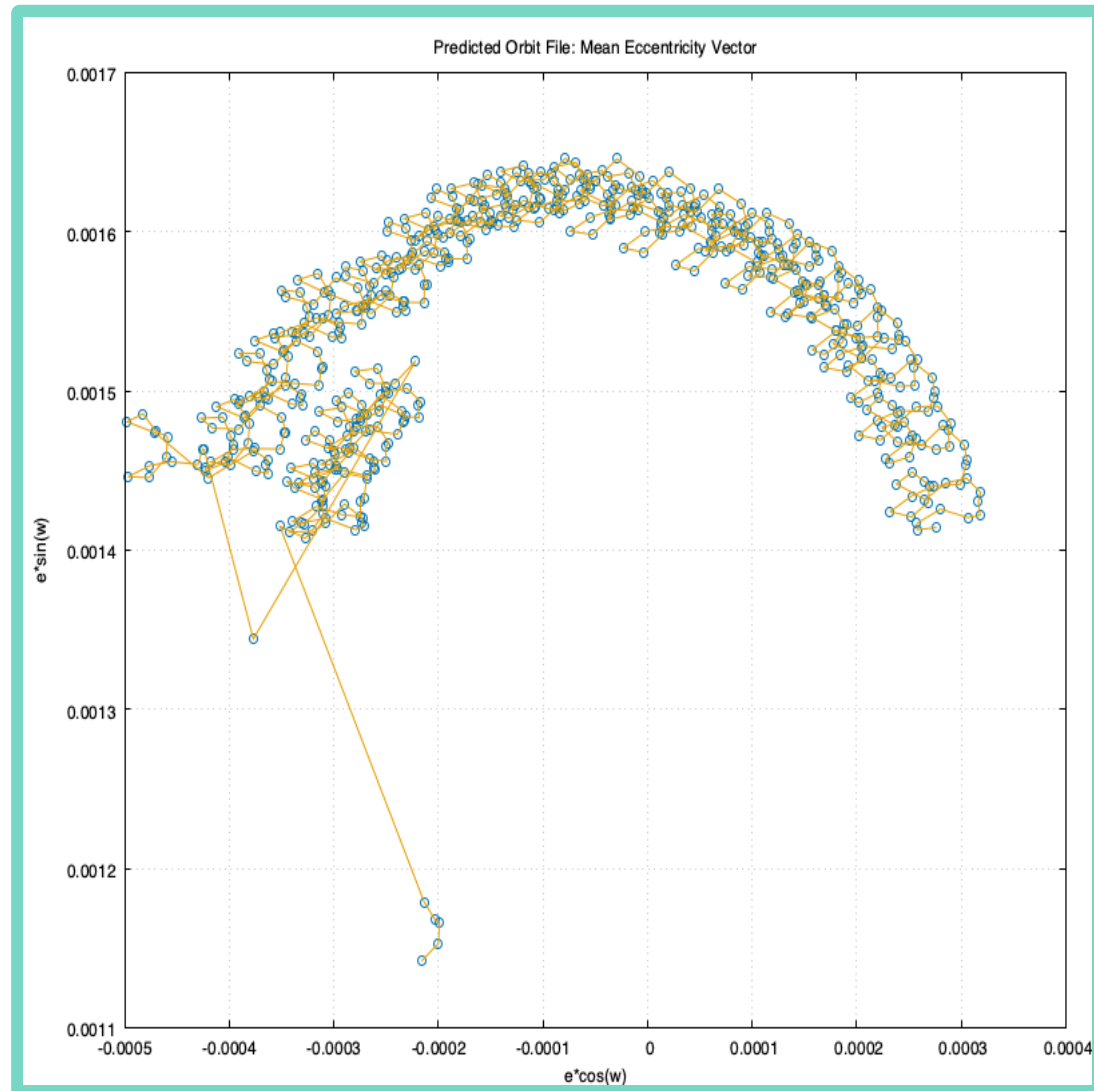
# Evolution of Mean Semi-major Axis: Offset vs Nominal SMA



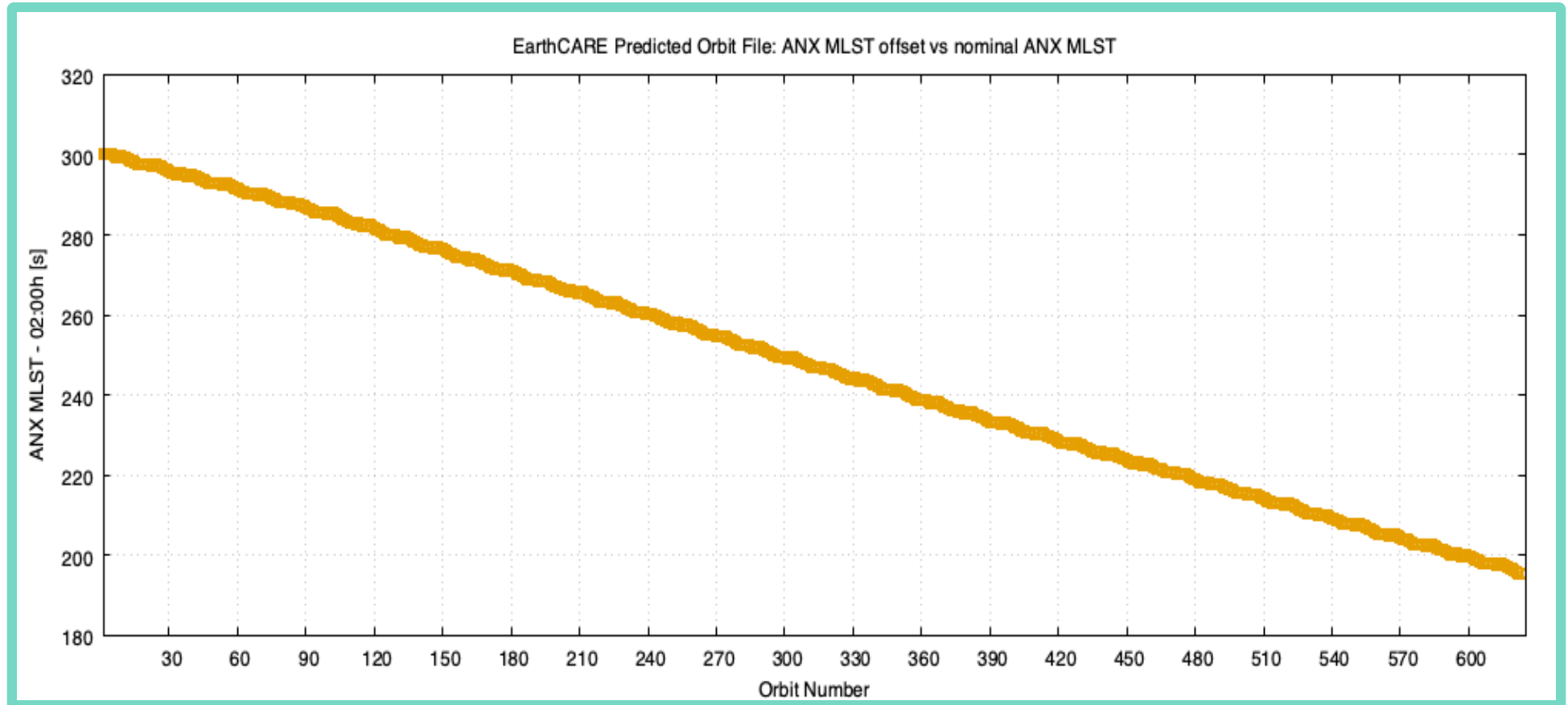
# Evolution of Mean Inclination (Predicted Orbit Files)



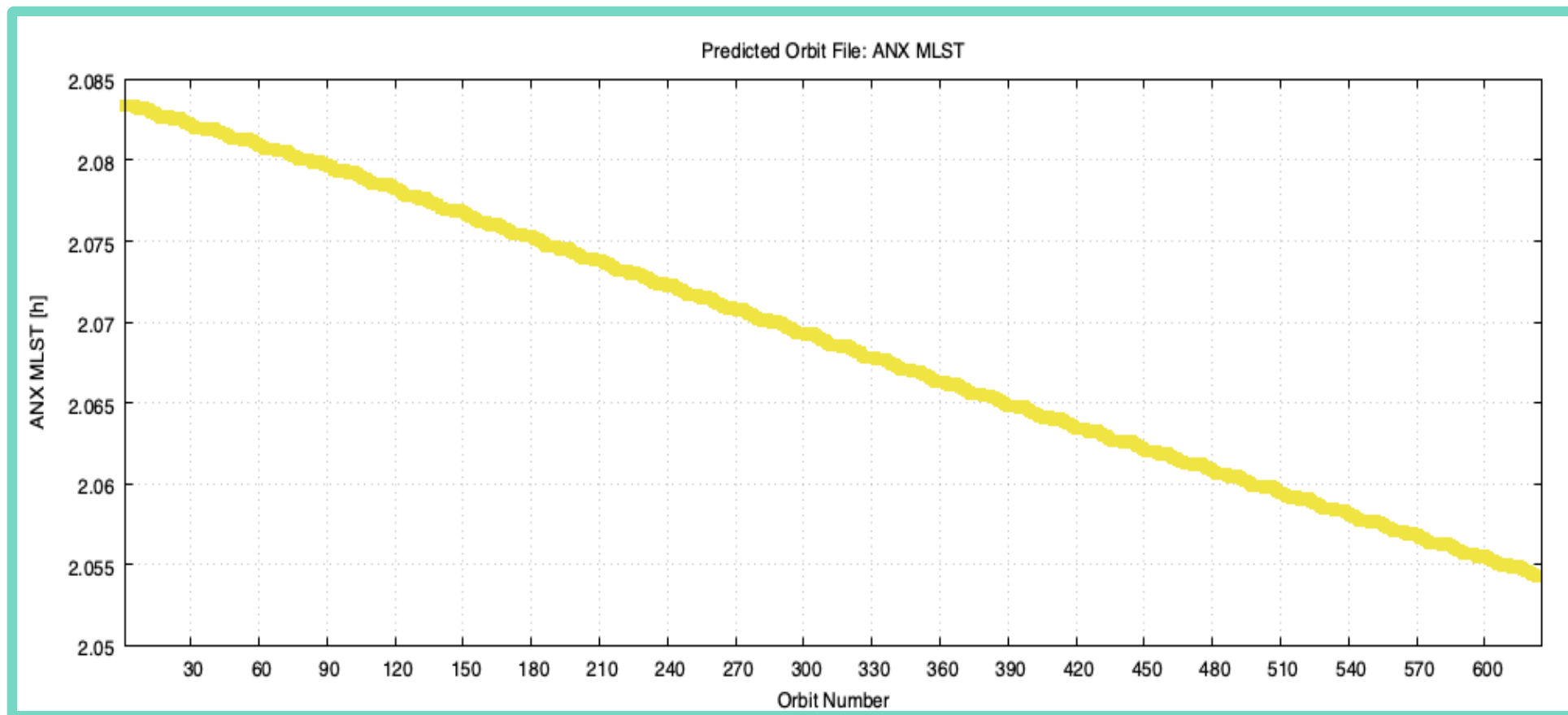
# Evolution of Eccentricity Vector (Predicted Orbit Files)



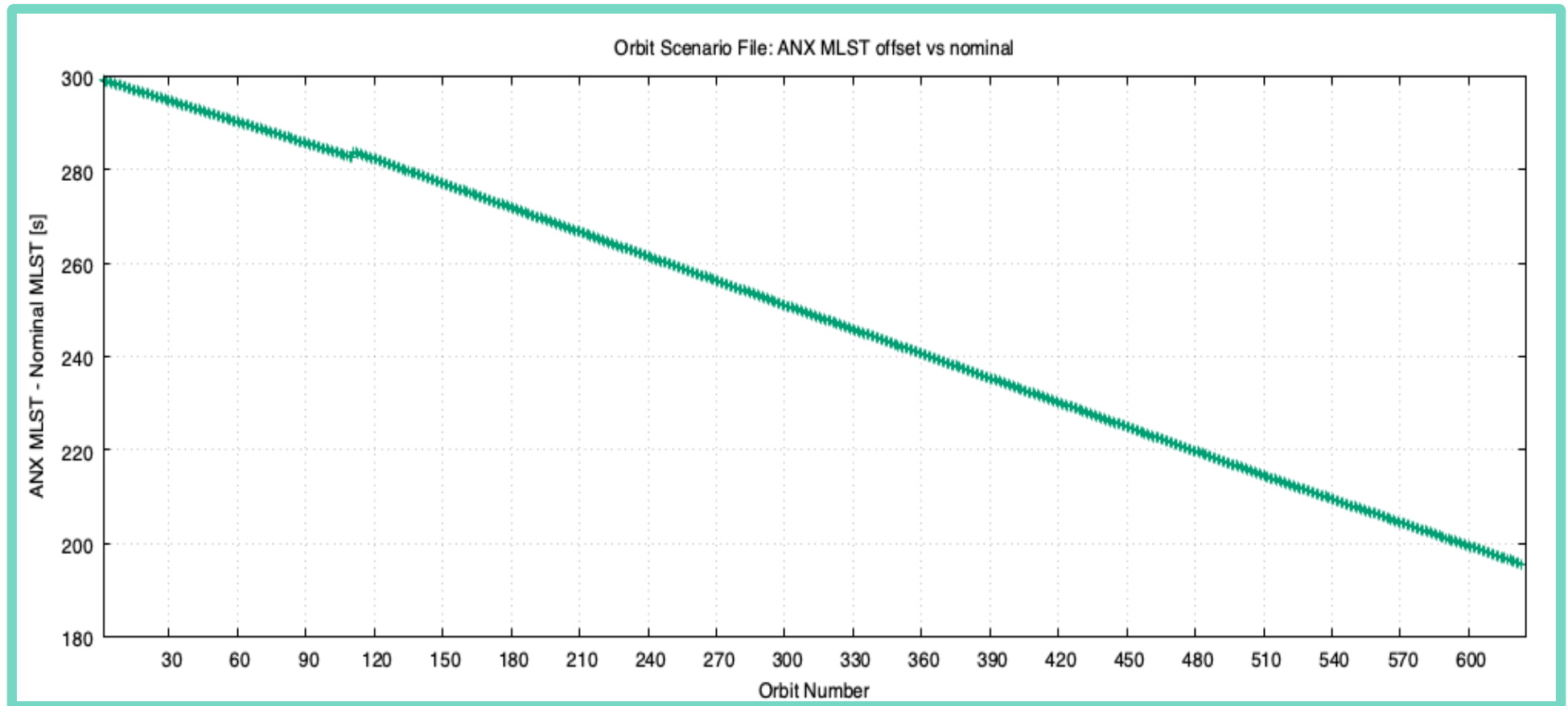
# Evolution of ANX Mean Local Solar Time (Predicted Orbit Files): Offset vs Nominal ANX MLST



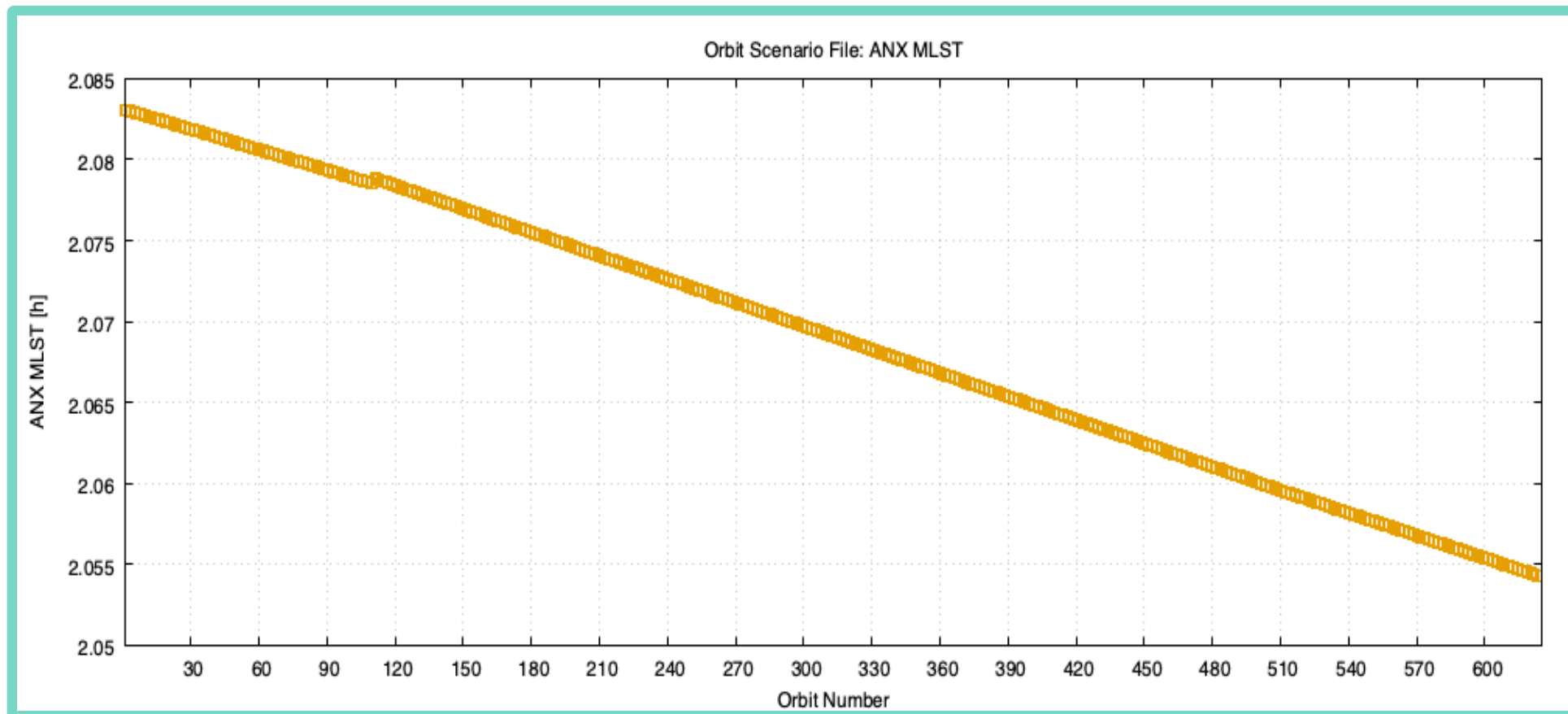
# Evolution of ANX Mean Local Solar Time (Predicted Orbit Files): ANX MLST



# 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

