

# SENTINEL2B Orbit Monitoring Report

## Orbit Scenario File vs Predicted Orbit Files

Report Generation Date: 2021-08-03T16:00:00

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

### Orbit Scenario File

|                 |  |
|-----------------|--|
| <b>Filename</b> | S2B_OPER_MPL_ORBSCT_20170309T104400_99999999T999999_0007.EOF |
|-----------------|--|

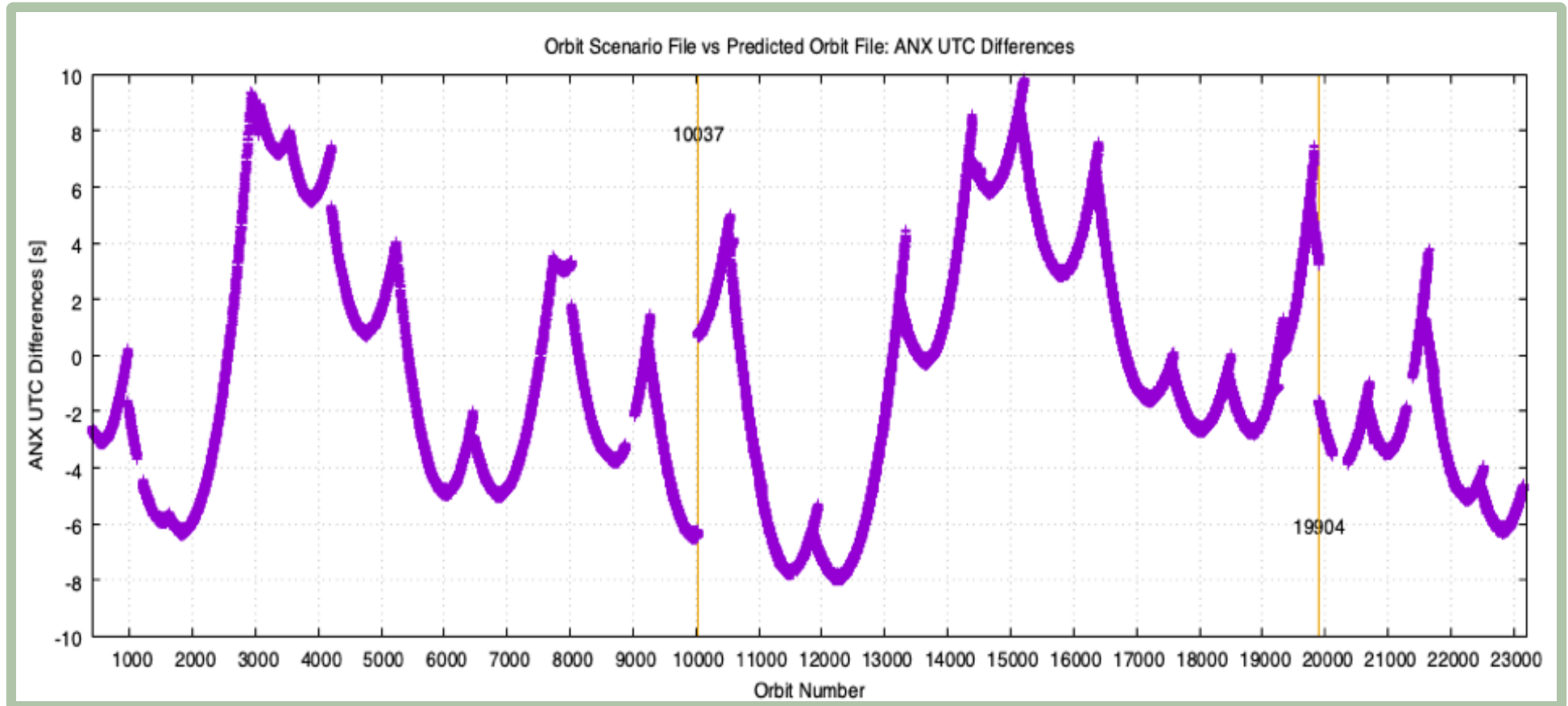
### Reported Time Interval

|                             |                            |
|-----------------------------|----------------------------|
| <b>Begin UTC Time</b>       | 2017-04-04T03:48:15.998139 |
| <b>Begin Absolute Orbit</b> | 402                        |
| <b>End UTC Time</b>         | 2021-08-12T01:37:25.599486 |
| <b>End Absolute Orbit</b>   | 23152                      |

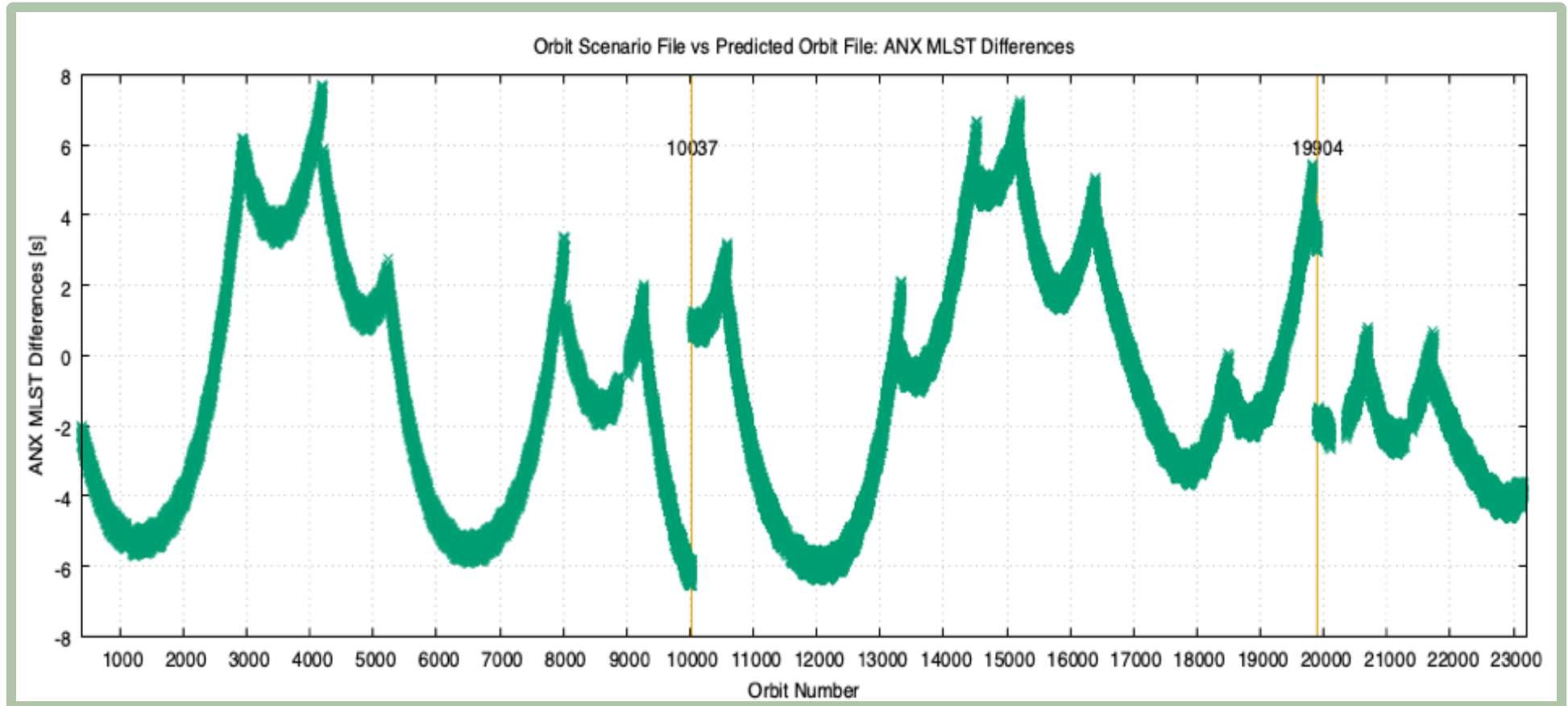
# Differences in ANX Longitude



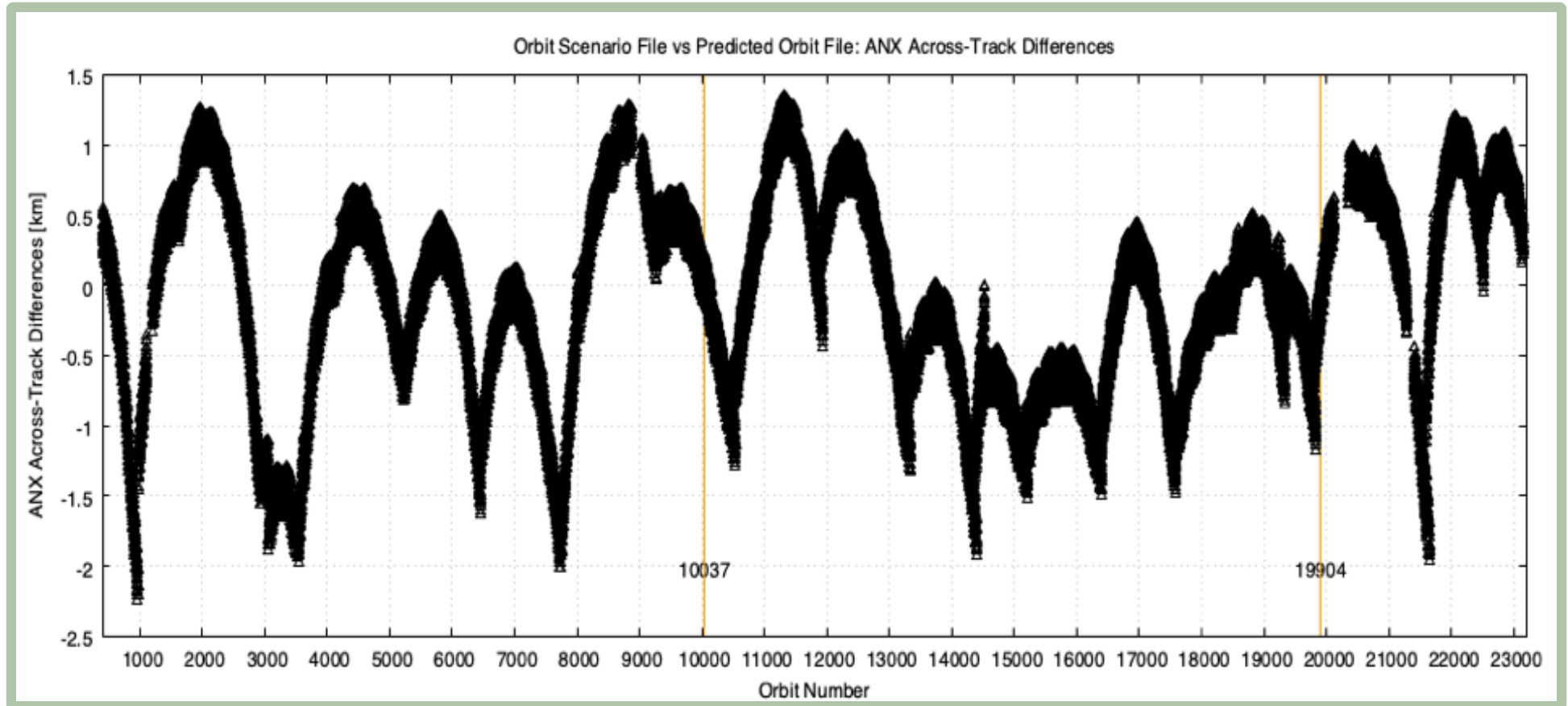
# Differences in ANX UTC Time



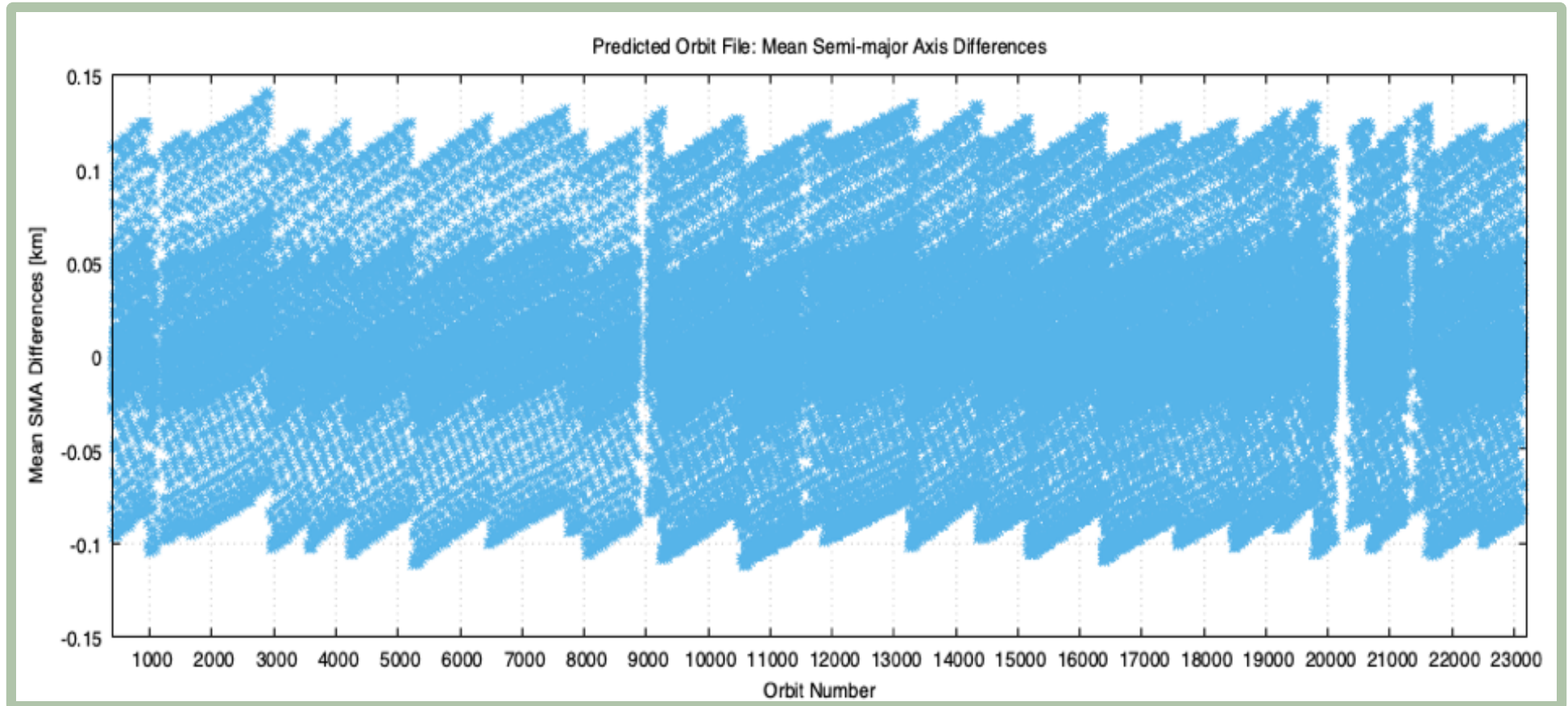
# Differences in ANX Mean Local Solar Time



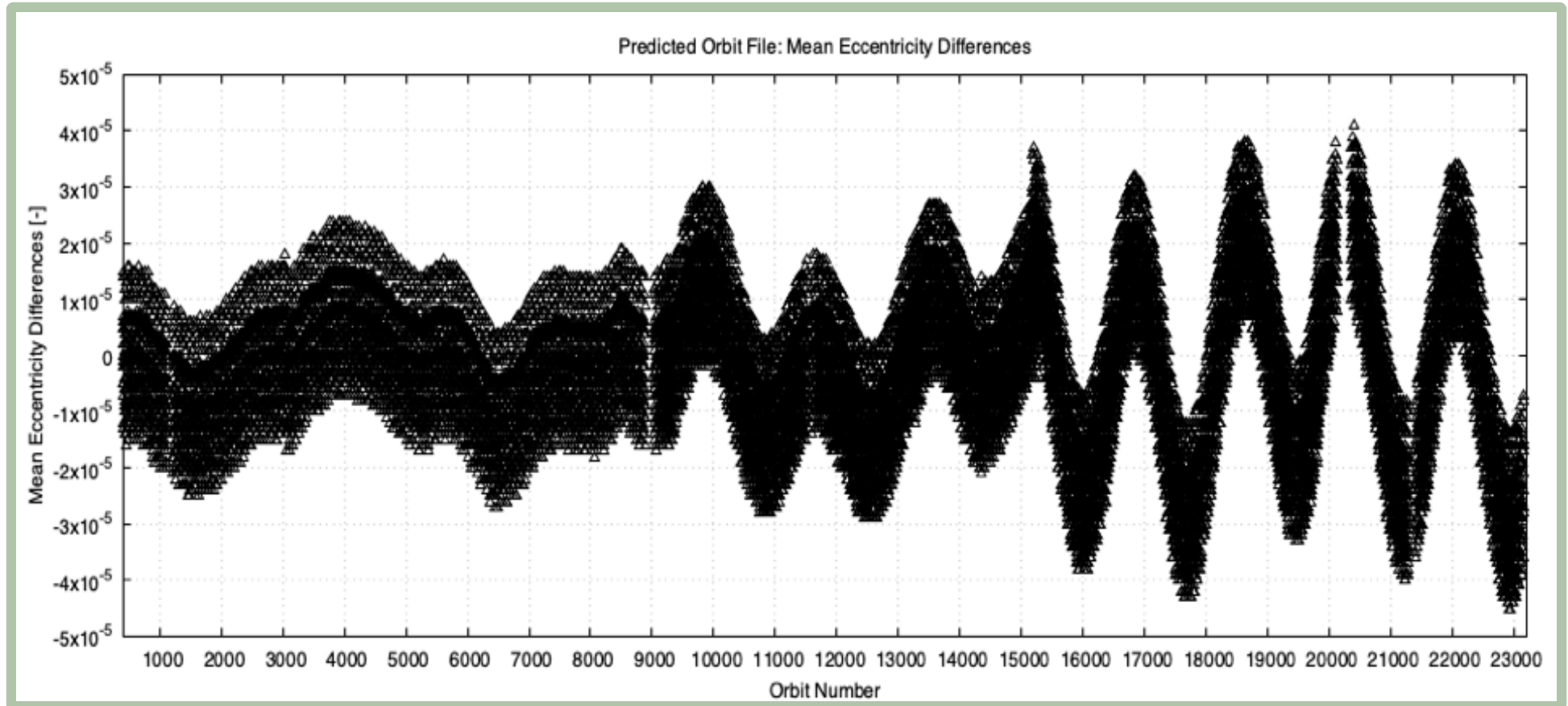
# Differences in ANX Across-track



# Differences in Mean Semi-major Axis

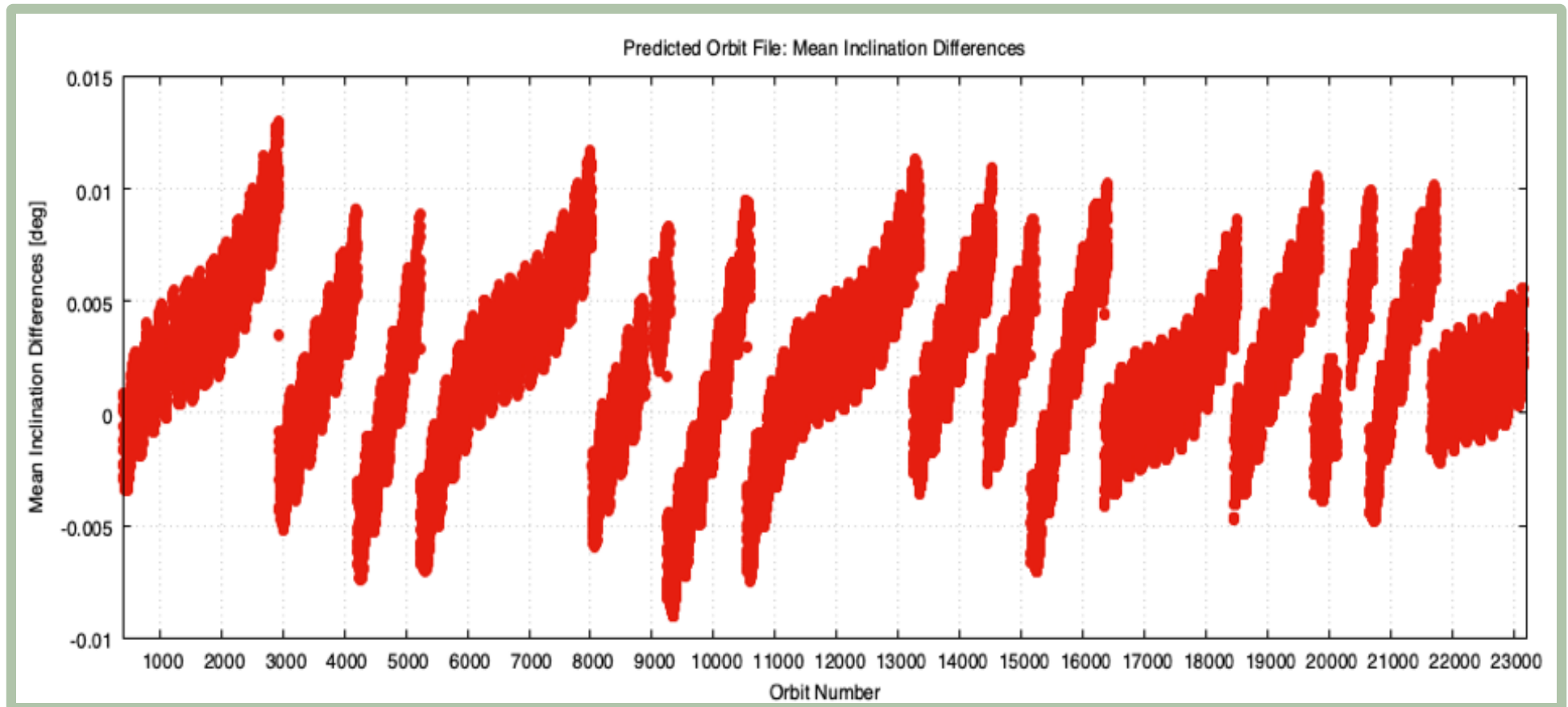


# Differences in Eccentricity



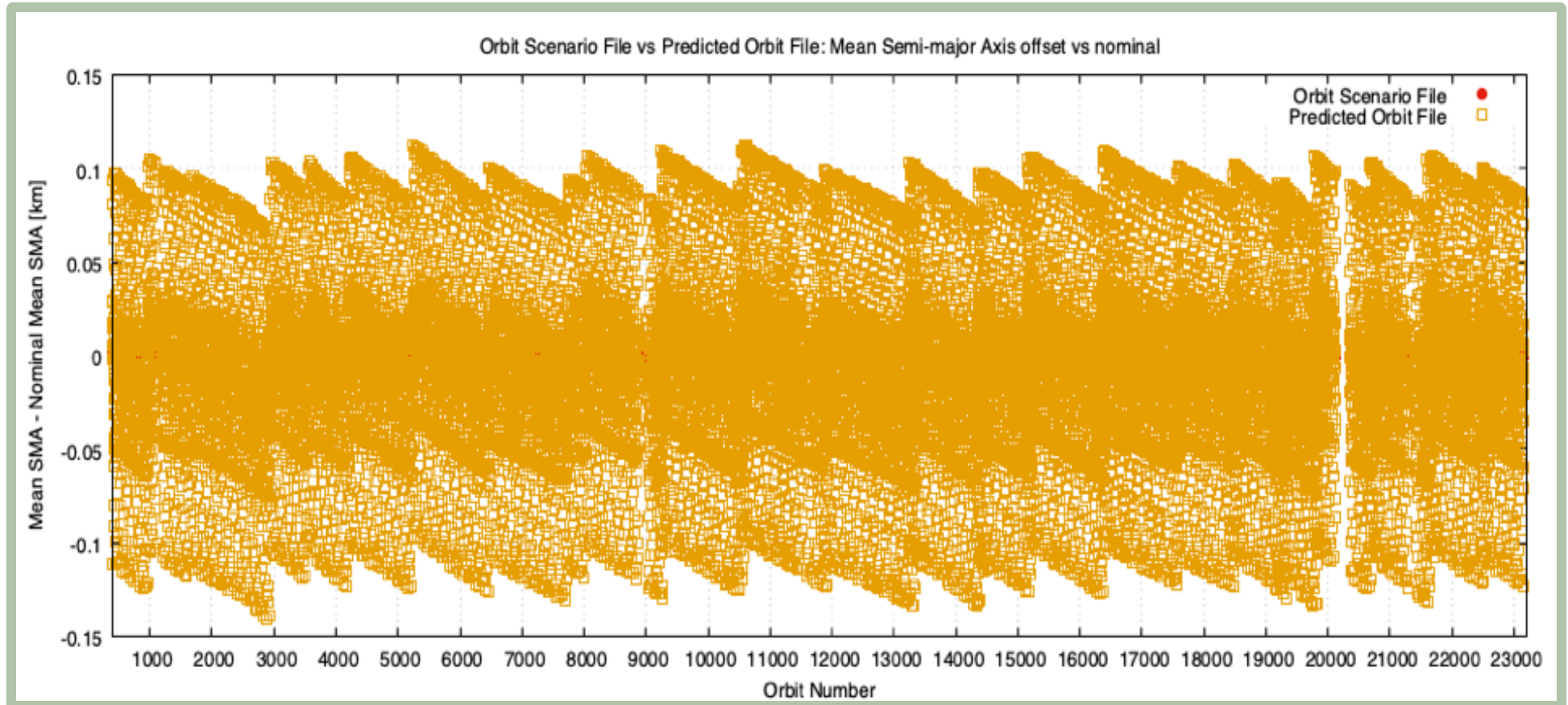


# Differences in Mean Inclination

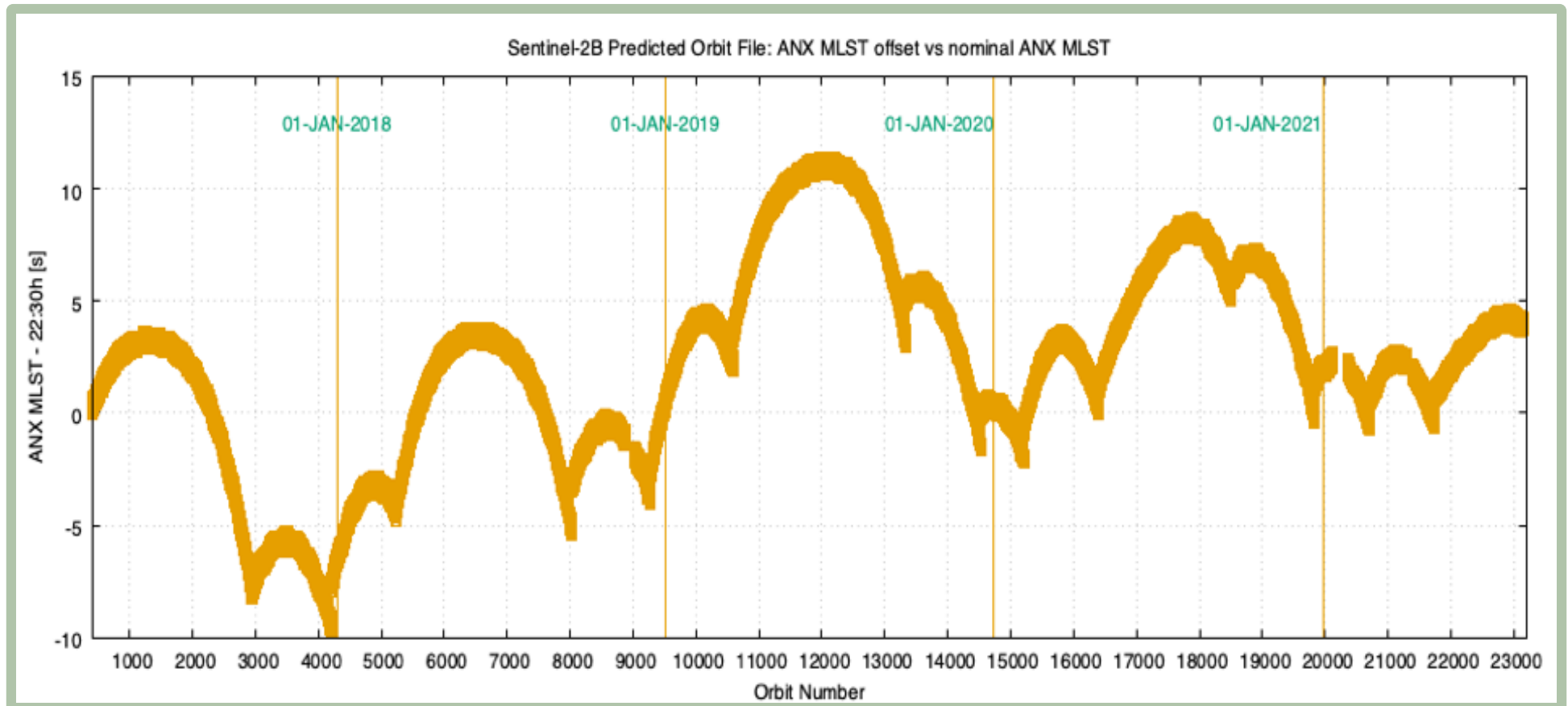




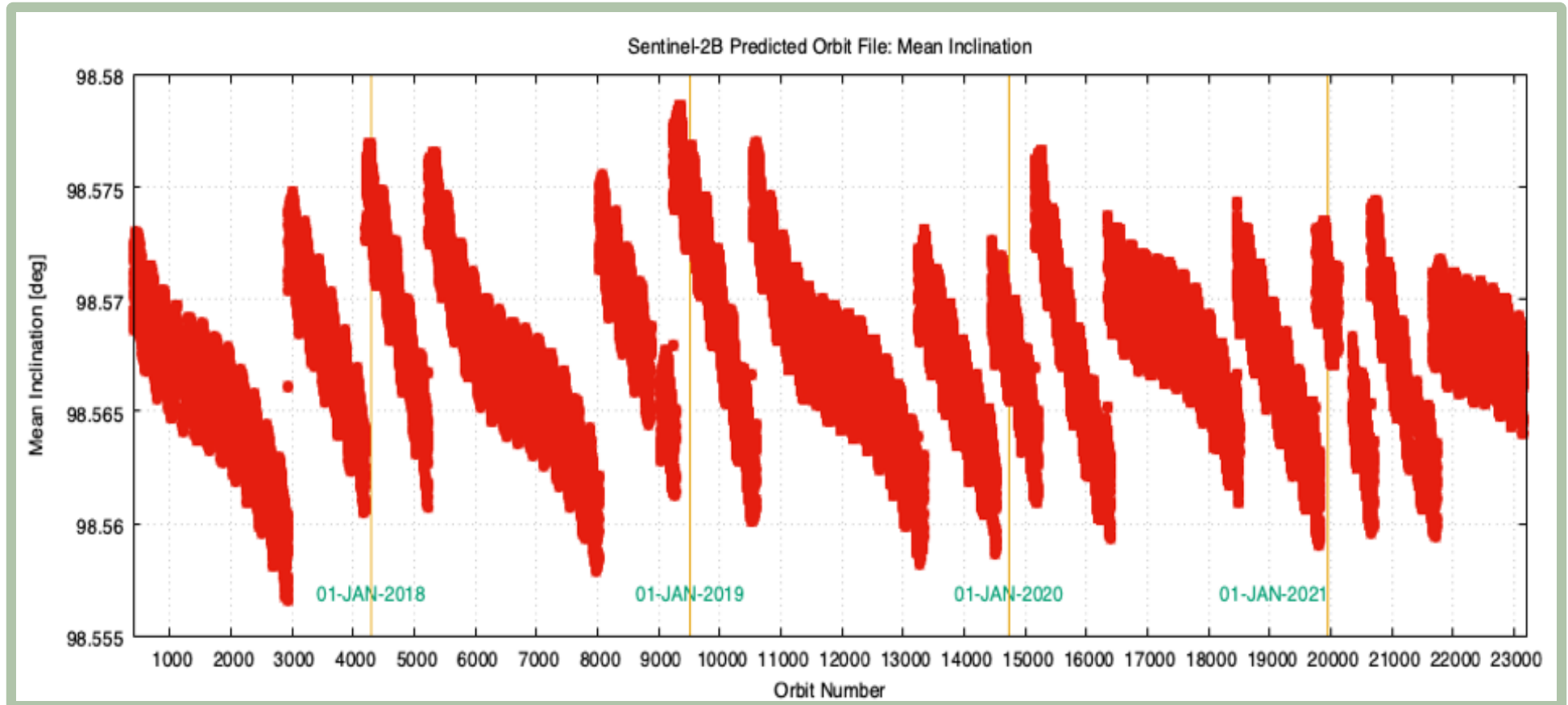
# Evolution of Mean Semi-major Axis: Offset vs Nominal SMA



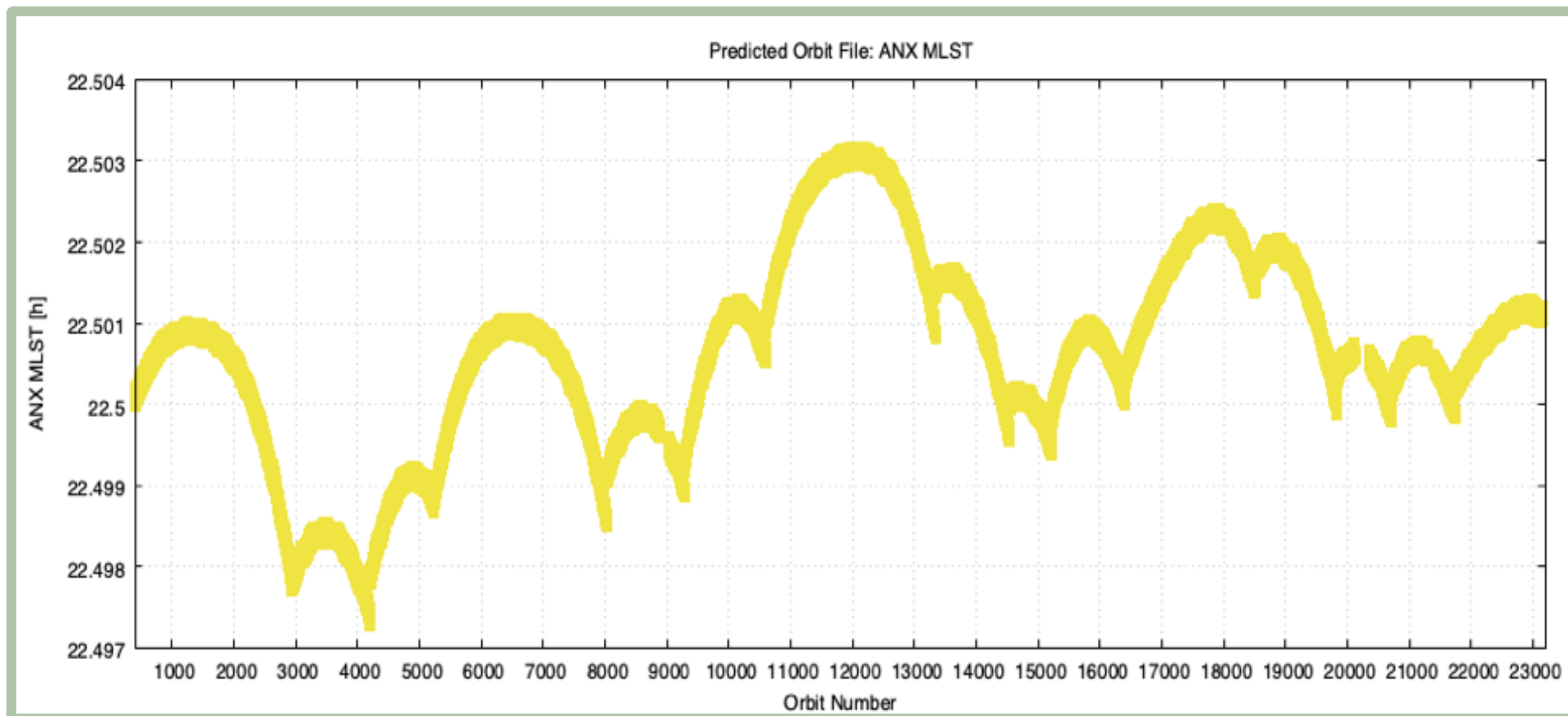
# Evolution of ANX Mean Local Solar Time (Predicted Orbit File): Offset vs Nominal ANX MLST



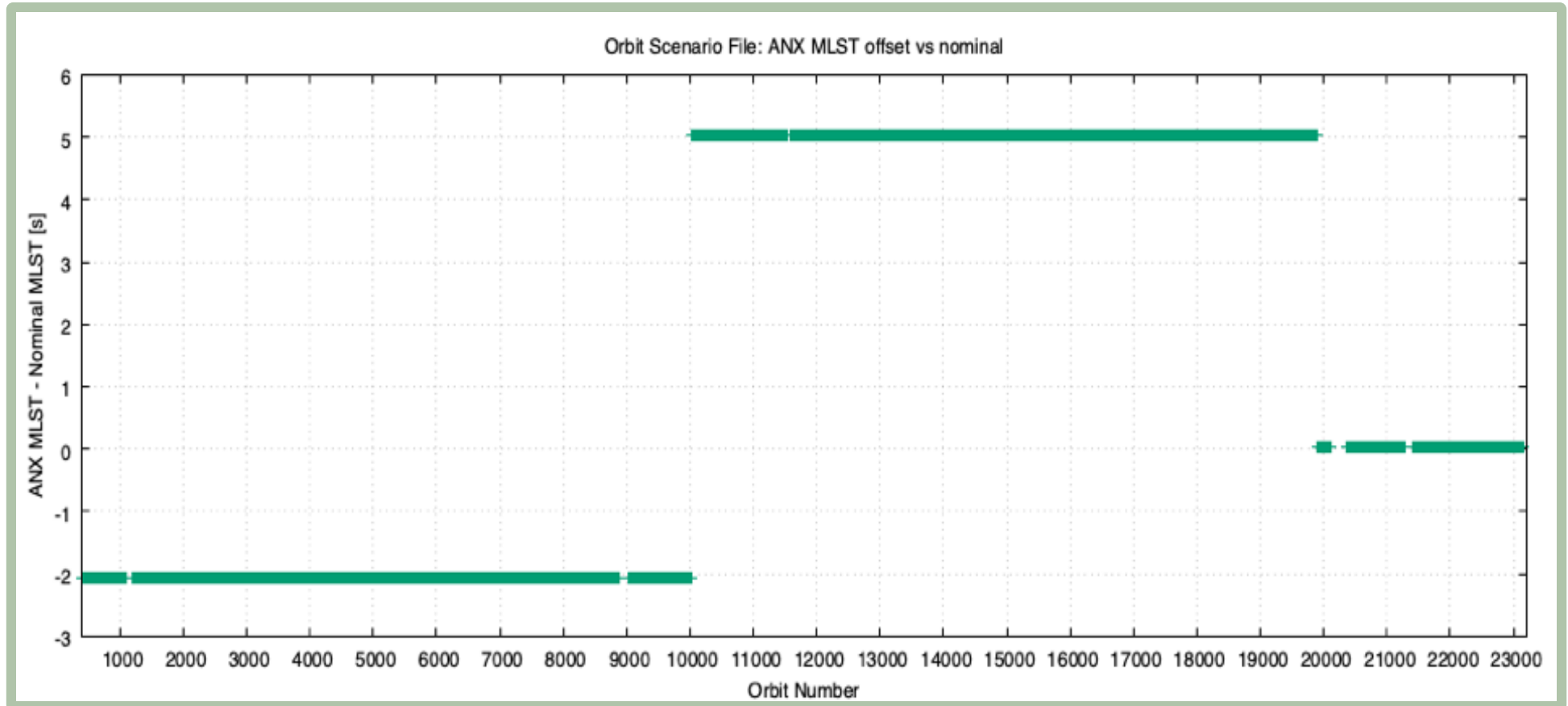
# Evolution of Mean Inclination (Predicted Orbit Files)



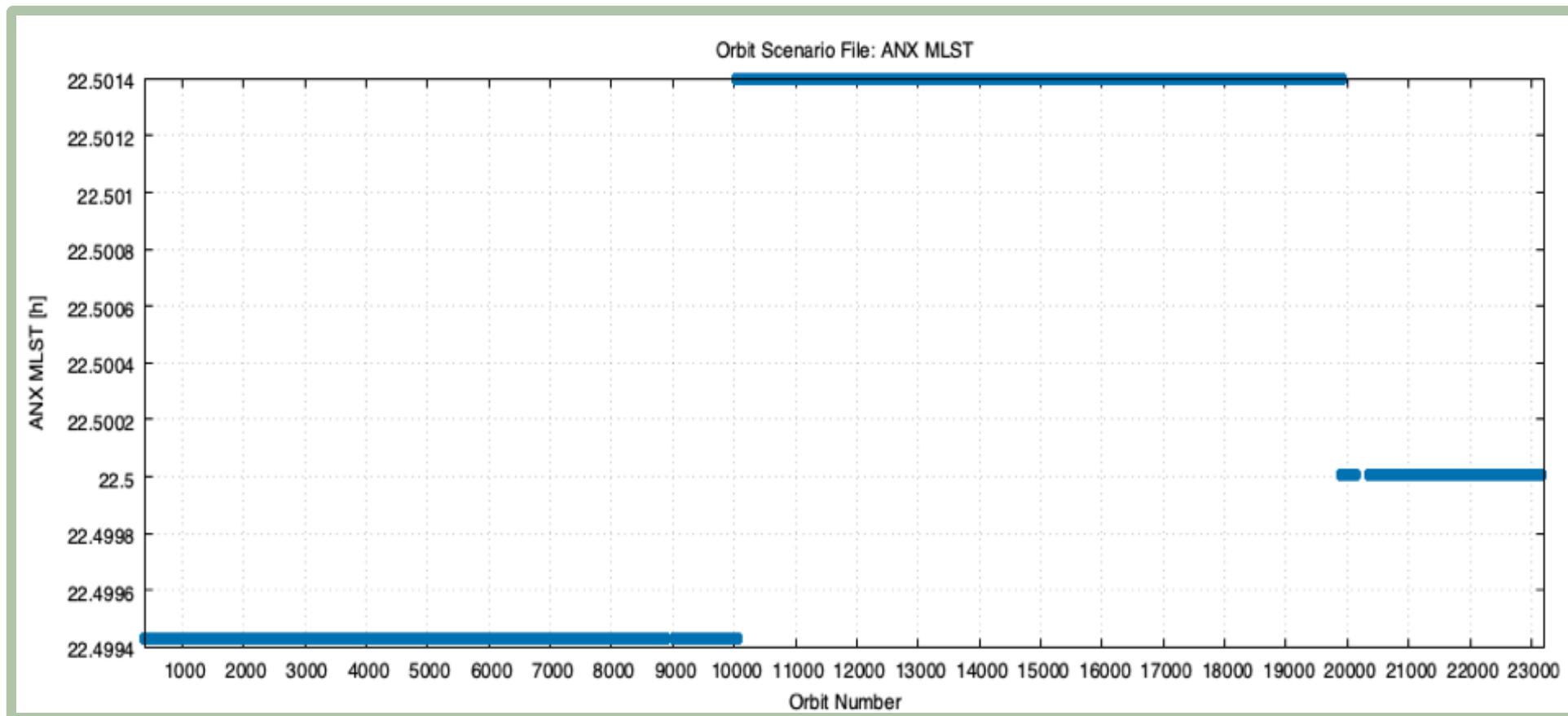
# Evolution of ANX Mean Local Solar Time (Predicted Orbit File): ANX MLST



# 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

