Problem: State + covariance estimation

Instead propagation of TLE with SGP4, propagate state + covariance with Keplerian Propagator

Debugger: Velocity components of predicted state + covariance are erroneous

A screenshot of a computer

Description automatically generated

Estimated parameters are affected by “scaling factor”

🡪 scale for velocity component = 0.000748

A screenshot of a computer program

Description automatically generated

A number on a white background

Description automatically generated06

A screenshot of a phone

Description automatically generated05

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Description automatically generated12

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Description automatically generated13 🡪 bad solar phase