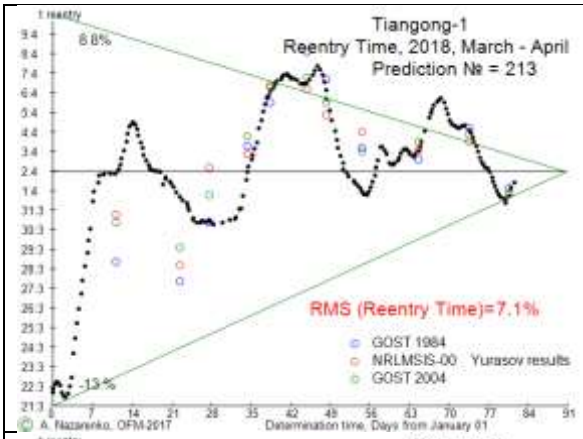
XIV. Decay Epoch of the "Tiangong-1" Spacecraft. March 23, 2018

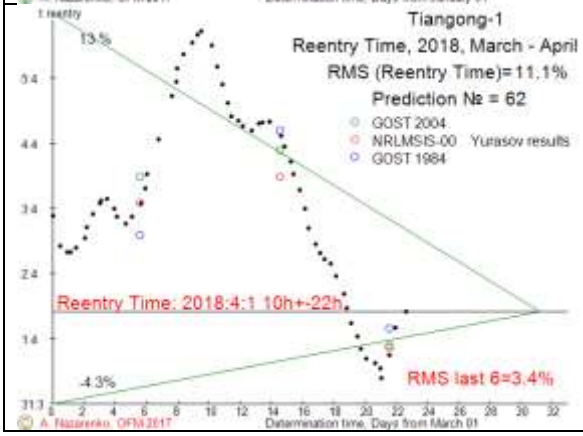
Andrey I. Nazarenko, Professor, retired

1. The results for March 23, 2018



For SC Tiangong-1, the results of all 213 reentry time determinations after January 1, 2018 are presented here.

According to this results, RMS from the average value (April 1, 23^h) equals 7.1% of the remaining lifetime.



The results of all 62 reentry time determinations after March 1, 2018 are presented here.

According to the results of the last 6 determinations, RMS from the average value equals 3.4% of lifetime.

Reentry time:
April 1 2018 $10^h \pm 22^h$

2. Recent publication of other authors

а) Aerospace Corporation

Tiangong-1 is predicted to reenter in around **April 1st, 2018 ± 3 Days**.

This prediction was performed by The Aerospace Corporation on 2018 March 22.

б) ESA data:

Latest reentry forecast provided by ESA's Space Debris Office, ESOC, Darmstadt, Update 23 March 2018. The current estimated reentry window remains between **30 March and 3 April**; this is highly variable.

References

1. A.I. Nazarenko, V.S. Yurasov, S.V. Tikhomirova. Determination of the satellite reentry time with allowance for random variations of atmospheric drag. ESOC, Reentry Workshop 2018, Darmstadt.
2. A.I. Nazarenko. Stochastic astrodynamics tasks. Mathematical methods and algorithms for solving. Moscow, URSS, 2017, 352 (p).