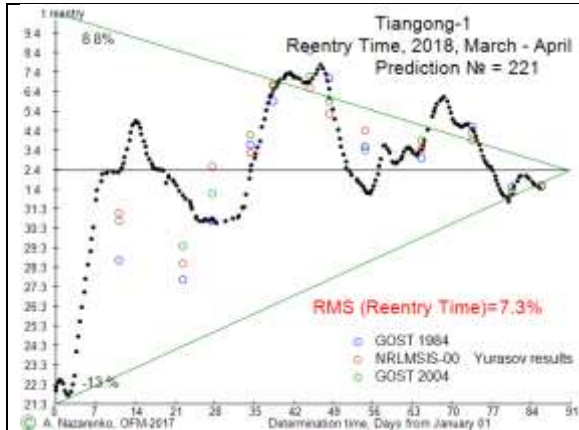


XVI. Decay Epoch of the "Tiangong-1" Spacecraft. March 28, 2018

Andrey I. Nazarenko, Professor, retired

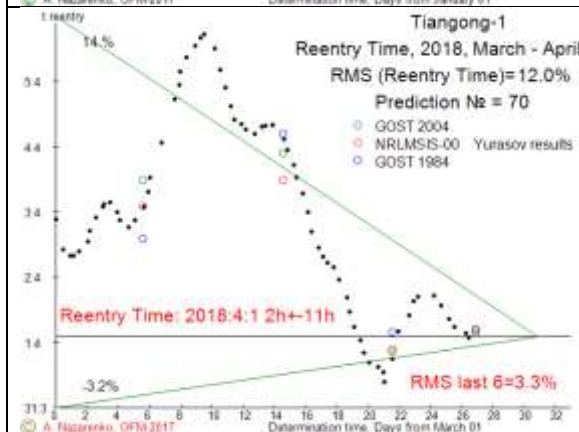
1. The results for March 28, 2018

The materials presented below represent a continuation of the text under the same name, posted on the "satmotion.ru" site from November 2017 to March 26 2018.



For SC Tiangong-1, the results of all 221 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 70 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 3.3% of lifetime.

Reentry time:

April 1 2018 02^h± 11^h

2. Recent publication of other authors

a) Aerospace Corporation

Tiangong-1 is currently predicted to reenter around **April 1st, 2018 ± 2 Days**.

This prediction was performed by The Aerospace Corporation on 2018 March 26.

б) ESA data:

Latest reentry forecast provided by ESA's Space Debris Office, ESOC, Darmstadt, Update 27 March 2018. The current estimated reentry window runs from the **morning of 31 March to the early morning of 2 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).

Initial data for March 26 and 27, 2018
Reentry prediction. Spread in reentry time (UTC):
April 1: from 02^h 5^m to 8^h 47^m

