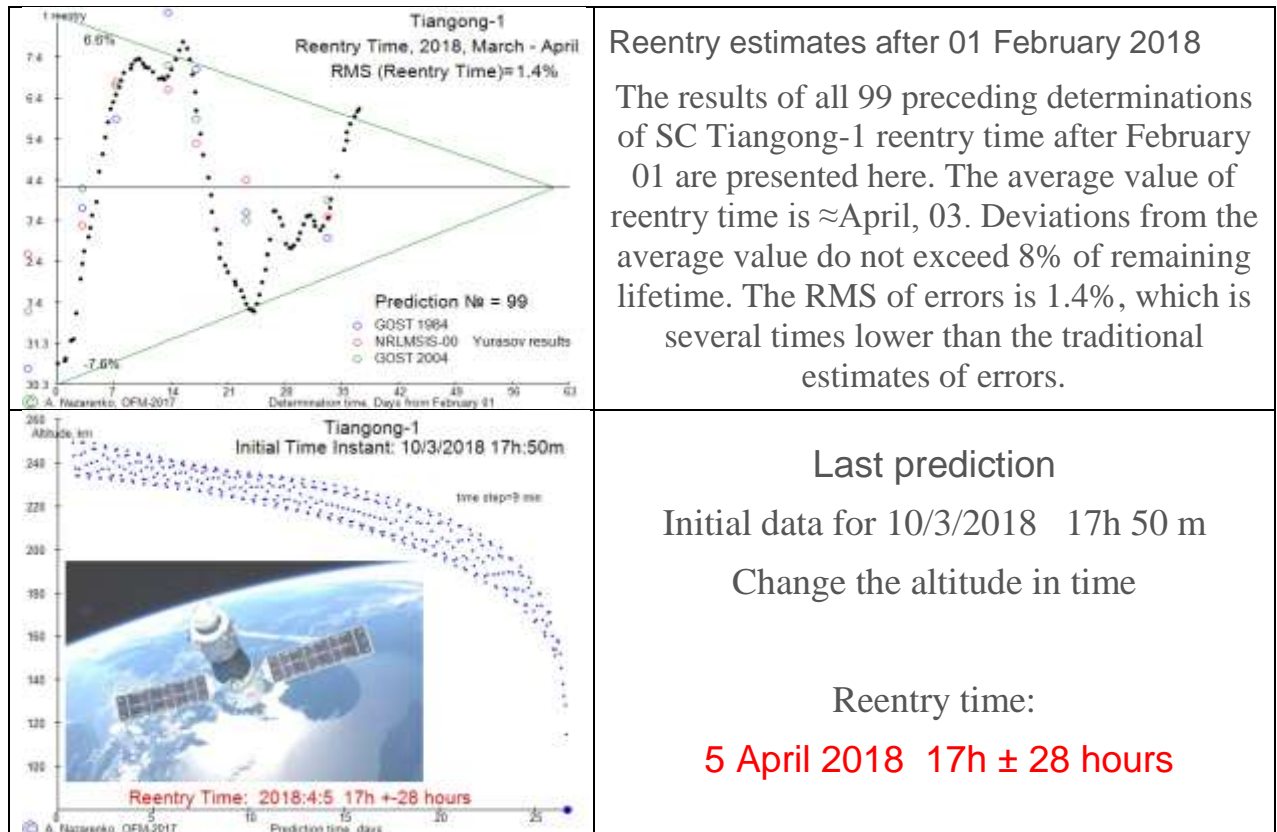


## XII. Decay Epoch of the "Tiangong-1" Spacecraft. March 10, 2018

Andrey I. Nazarenko, Professor, retired

### 1. The results for March 10, 2018

The materials presented below represent a continuation of the text under the same name, posted on the "satmotion.ru" website from November 2017 to February 28 2018.



### 2. Recent publication of other authors

#### a) Aerospace Corporation

Tiangong-1 is predicted to reenter in around April 3rd, 2018  $\pm$  1 week\*.

This prediction was performed by The Aerospace Corporation on 2018 March 7.

#### b) ESA

ESA's Space Debris Office, ESOC, Darmstadt, Germany. Update 6 March 2018.

The current estimated window is  $\sim$ 29 March to  $\sim$ 9 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).