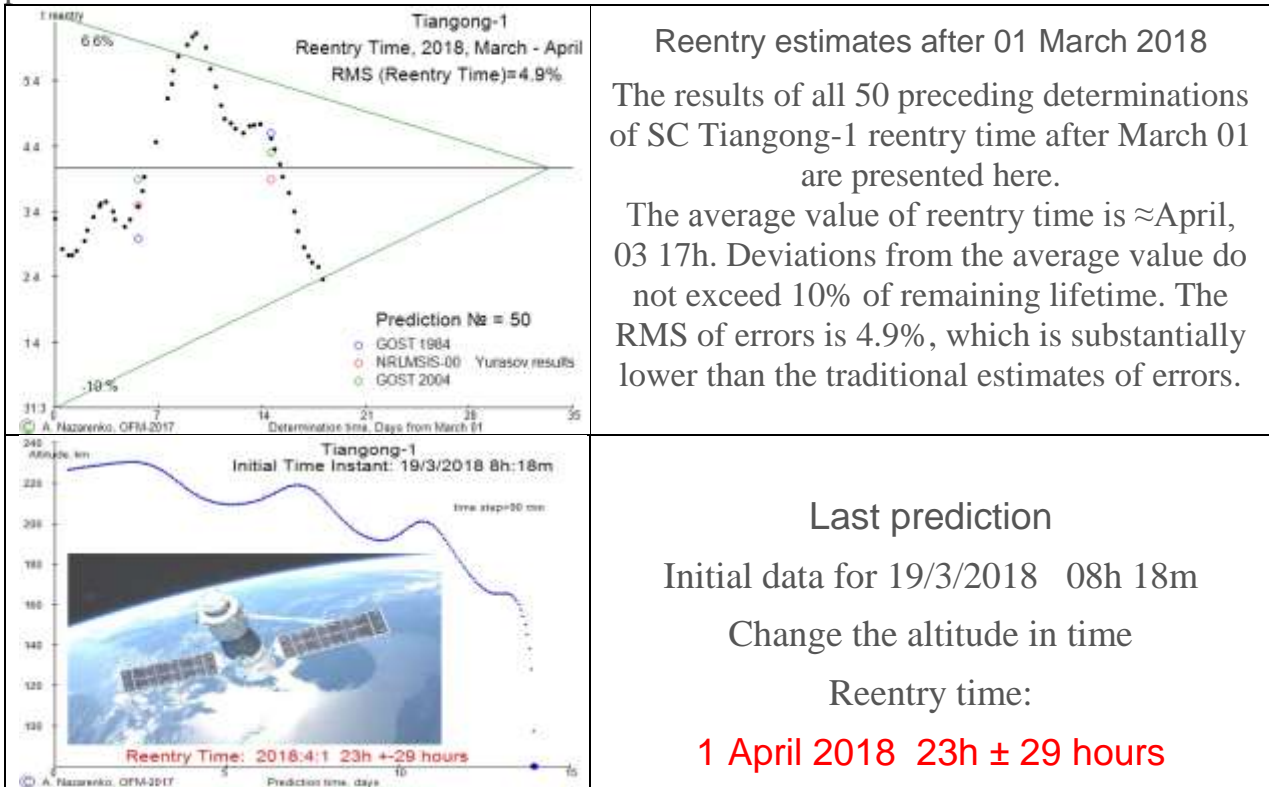


### XIII. Decay Epoch of the "Tiangong-1" Spacecraft. March 19, 2018

Andrey I. Nazarenko, Professor, retired

#### 1. The results for March 19, 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 March 10 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 13.

##### б) ESA data:

Latest reentry forecast provided by ESA's Space Debris Office, ESOC, Darmstadt, Germany. Update 15 March 2018

The current estimated **window is ~30 March to ~6 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).