

SOLAR-GEOPHYSICAL EVENTS AND AVIATION CATASTROPHES IN THE FIRST PART OF APRIL 2010

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Abstract. The planetary data about catastrophes in the civil aviation are investigated for 50 years (the second half of past century). The components concentrated in time of solar-geophysics events are selected with the method epoch's superimposition. The solar flares X-class, magnetic storms, and earthquakes are considered. The catastrophes in civil aviation were selected for seven days after the geophysical events. The analysis results show increasing of number of catastrophes in the third day after solar flare and in the fourth day after magnetic storm. A complex pattern of time distribution of aviation catastrophes is revealed after catastrophic earthquakes. A variant of generalized index of geophysics' dangers for flight is suggested. The highest influence of geophysical factors on flight crews was observed in the first part of April, 2010.

Keywords: aviation catastrophes, geophysics, solar flares, earthquakes, magnetic storm.