

## **New meteor detection algorithm for Skiymet meteor radar in Kazan (55.8°N, 48.8°E).**

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The Skiymet Radar was installed near Kazan (Eastern Europe, 55.8N, 48.8E). It is operating since February 2015. Standard software allowed detection meteors and estimation of parameters for single events. However count rate was not too high (around 5000 confirmed events per day).

Here we will presents new detection algorithm of meteor events. Parameters of detection algorithm are close to optimal. Presenting algorithm is recurrent and fast allowing detection meteors 'on fly'.

This algorithm is tested on meteor radar in Kazan since November 2016. This allowed increase count of detected meteors as well as detection of meteor events with low signal-to-noise ratio (but quite continuous by time) as well as very short events usually rejected by standard Skiymet radar software.