

TV Observation of 2018 Draconid Meteor Shower in Iceland

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An appearance of the October Draconids in 2018 was forecasted by several researchers (Rendtel 2017). The predicted peak time was between 23h31m on October 8 and 0h14m on October 9 (UT). The expected activity was less than 50 of a zenithal hourly rate (ZHR). We carried out a TV observation at Husafell in Iceland that had a favorable condition to observe this shower at the predicted peak time.

As a result, we detected active display of the shower more than expected. A main peak occurred at around 23h30m UT on October 8, and the hourly rate (HR) by a video observation reached 42. In addition, two possible sub peaks were detected at around 0h30m and 1h15m on October 9, respectively. The derived influx of meteoroids was 8.7×10^{-3} [$\text{km}^{-2} \text{hour}^{-1}$] ($\text{mag} < 4$) at a main peak.

In this paper we show the result of our observation and of the examination on the difference with the result of the past years.