

Airborne Double station observation of the 2011 Draconids

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Abstract

The first European airborne meteor observation campaign occurred on October 8, 2011 for the exceptional outburst of the Draconids meteors shower, presumably caused by the 1900 trail. In this paper, we describe our double station observation from the two planes, as well as the results.

1. Introduction

On October 8, 2011, the Draconids displayed an exceptional outburst, already predicted by the meteor shower forecasting [1]. We conducted double station observation from the two planes operated by European researchers.

2. Observation setup

Figure 1 shows the SPOSH camera [3] onboard the SAFIRE aircraft, looking at the roof window. A similar camera was installed on board the DLR aircraft. In addition, an intensified video camera [4] was set up in the DLR aircraft, and a CABERNET camera [2] in the SAFIRE aircraft. The observation took place between 7 and 10 PM on October 8, 2011. The distance between the two planes was kept at approximately 110 km.

3. Results

We recorded several dozens of double station meteors. The 3-D project as well as the orbits were computed for each of them.

During this session, we will show our final results.

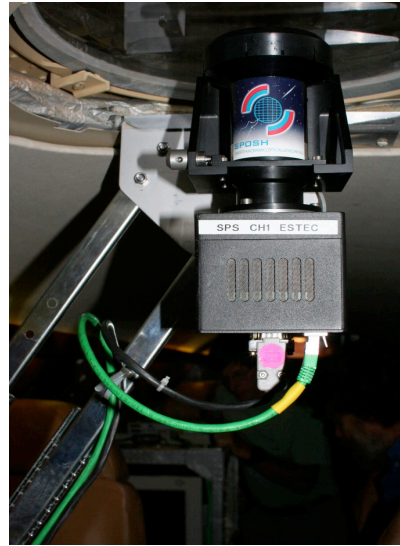


Figure 1: SPOSH camera onboard the SAFIRE aircraft.

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References

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