

## **Tools for Responding to Meteors of Public Interest**

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The NASA Meteoroid Environment Office (MEO) is tasked with analyzing bright meteors (fireballs) that elicit public interest. When queried about a fireball observed over the United States, the MEO must respond with a characterization of the fireball's trajectory, orbit, and size within hours. Such a task is straightforward when the event time is accurately known and the fireball falls within the coverage of automated meteor camera networks like the NASA All Sky Fireball Network. However, providing a timely assessment can be difficult if the exact time of the event is unknown and/or the event is outside meteor camera network coverage. This has led to the development of several tools to find or mine data from non-NASA meteor camera networks, stationary web cameras, Twitter, and eyewitness reports from the general public. After the analyses are completed, the results are placed on a public website to be viewed. An overview of the characterization process, a description of the tools and their application, and the database website will be discussed.