StrewnLAB Meteor Bulletin — Głogów, Polska

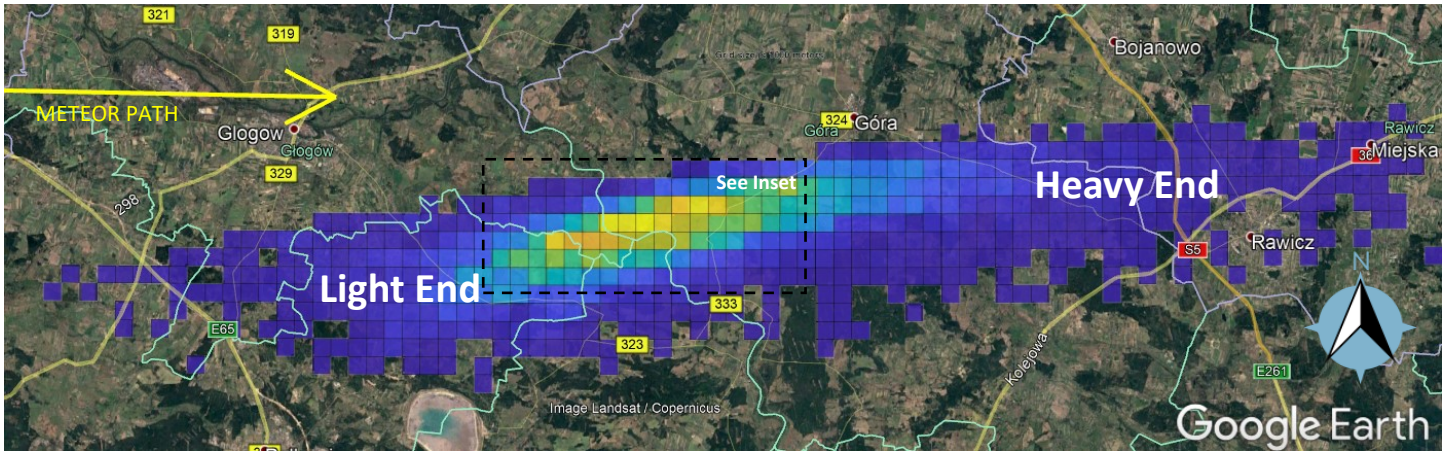
Version 2.0 | Released January 10, 2020 05:45 UTC (Glogow, Poland)

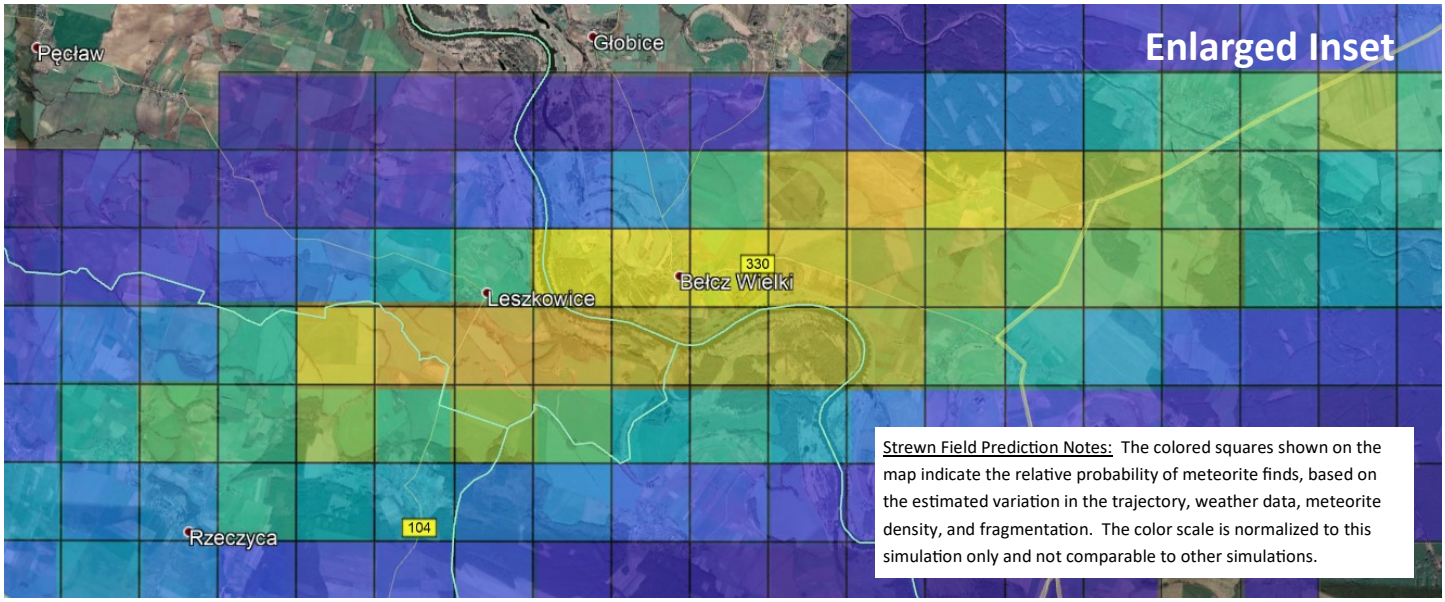
Trajectory Data:

Date/Time UTC	01/05/2020 03:04:18 UTC
Local Date/Time (+1.0)	01/05/2020 4:14 AM CET
Reference Latitude	51.681°N ±0.010°
Reference Longitude	16.068°E ±0.024°
Reference Altitude	31.4 ± 1.5 km
Estimated Energy/Mass	0.006 kt / 150 kg*
Bearing (Heading)	89.43° ± 1° E
Incidence Angle	73° ± 6° from vertical
Entry Speed	18 ± 1 km/s

Strewn Field Prediction Data:

Simulation Date/Time	01/10/2020 04:00 UTC
Simulation Engineer	Jim Goodall
Trajectory Data Source(s)	**Tomaszow-Mazowiecki Video** **Szczecin Video** **Poznan Videos (2)** **Roszkow Video** **Wroclaw Video** **AMS Event 111-2020**
Weather Data Source	IGRA Weather Balloon Data
Simulation Type	Monte Carlo, Unknown Meteoroid
Simulation Data Count	77 scenarios / 14167 fragments





*** Value is estimated, due to lack of data, or insufficient time to analyze data.**

DISCLAIMER: The author makes no claim to the accuracy of this document and the user assumes all risk. Always check local laws and obtain permission before hunting for meteorites.

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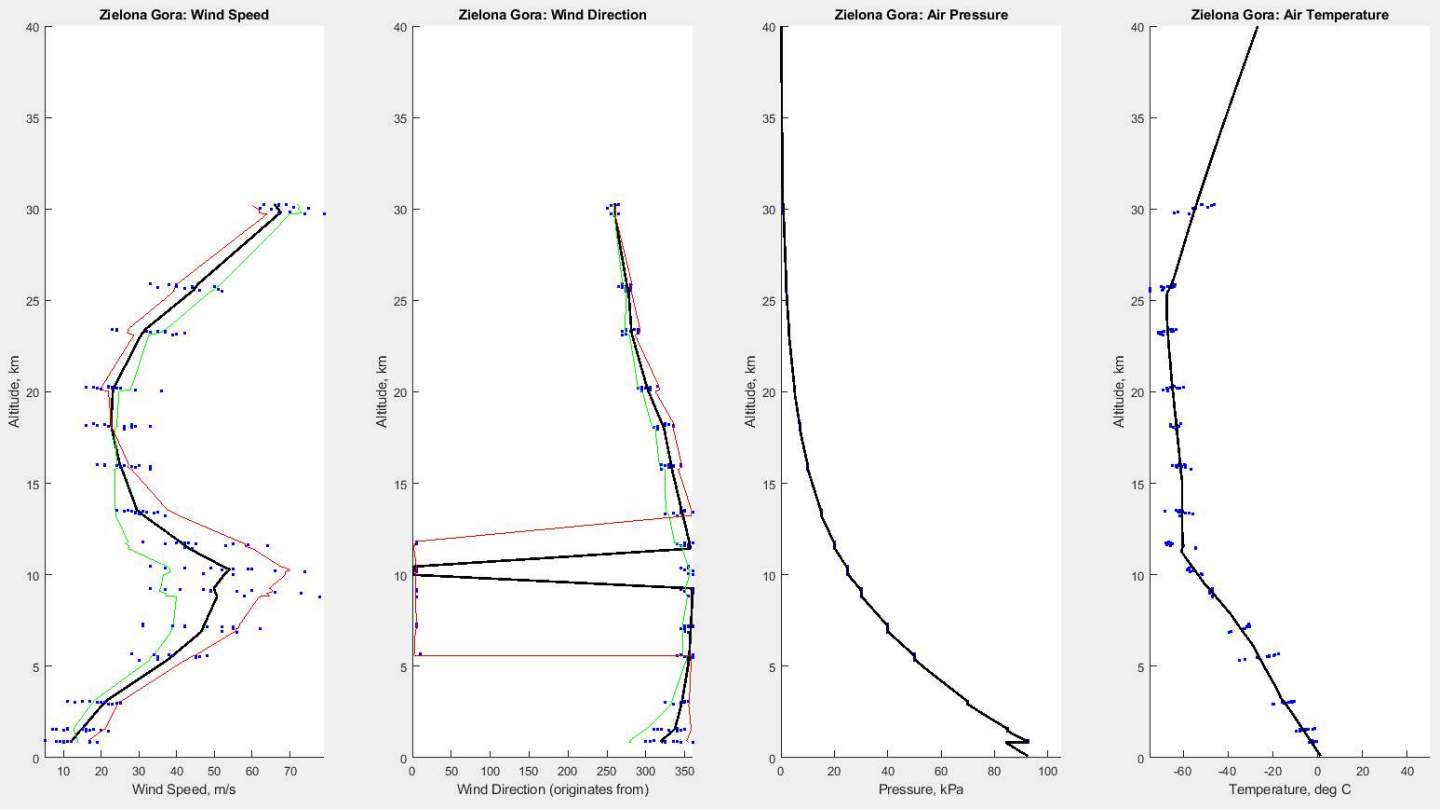
Weather Data Summary

Windspeed variation included: 1.5σ



Version Log:

Date	Version	Change Notes	Author(s)
01/09/2020	1.0	Many cameras captured this event, special thanks to Mateusz Żmija for his support in locating cameras. I have had time to process 4 videos so far. More accuracy could be gained with further analysis.	Jim Goodall
01/10/2020	2.0	Additional videos analyzed. This additional data provided a large correction to trajectory slope and end altitude. Due to high winds, this caused the strewn field to move 7km southeast, and the shallower slope caused it to be more elongated. Simulation time was limited to provide a map for Friday morning. An smoother map will be posted later, but accuracy should be good in this release.	Jim Goodall

References:

Żmija, Mateusz (January 7, 2020). Facebook Messenger conversation. Provided multiple videos and analysis support.

Kryspín Rodríguez (January 8, 2020). Facebook Messenger conversation. Provided Jarocin video and location.

AMS Event 111-2020. American Meteor Society. C2013-2019. https://fireball.amsmeteors.org/members/imo_view/event/2020/111.

IGRA Radiosonde Database. c2019. National Centers for Environment Information, National Oceanic and Atmostspheric Administration. https://www.ncdc.noaa.gov/data-access/weather-balloon/integrated-global-radiosonde-archive.

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