



StrewnLAB Meteor Bulletin — Głogów, Polska

(Glogow, Poland)

Version 3.1 | Released January 11, 2020 04:00 UTC

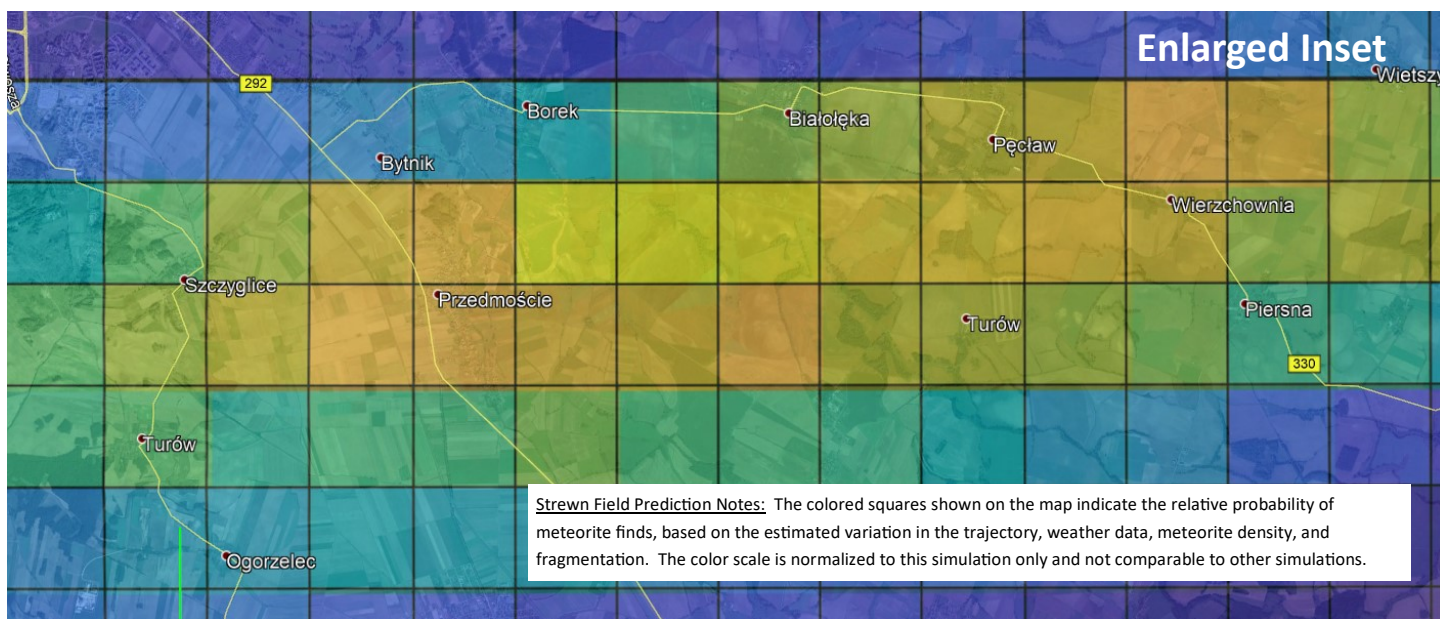
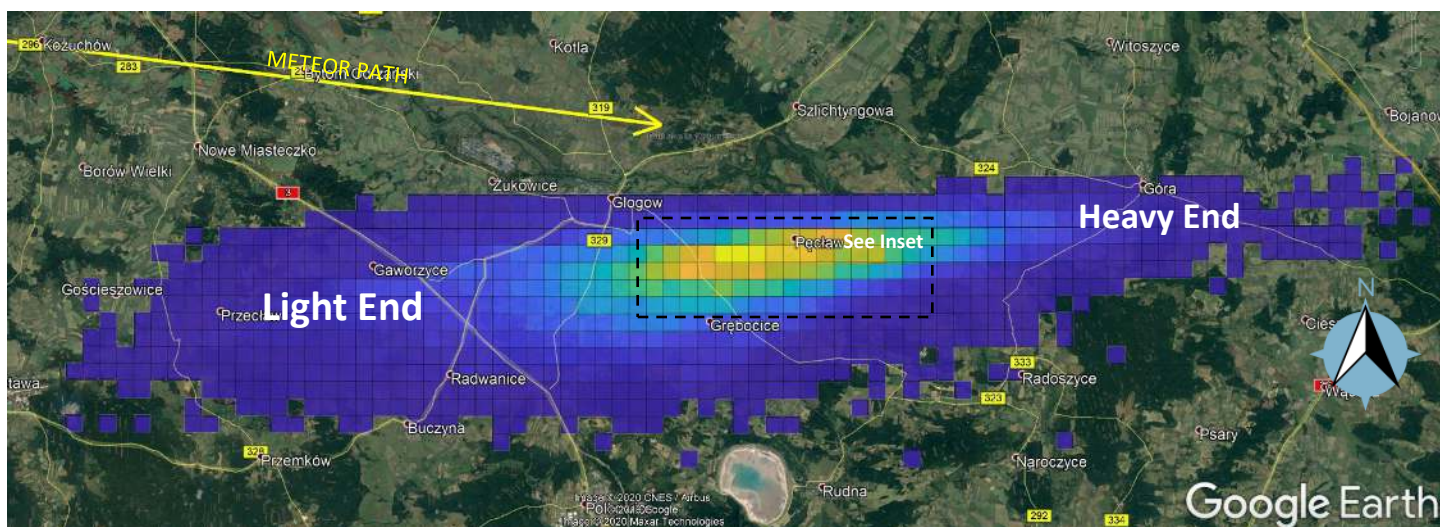
Trajectory Data:

Date/Time UTC	01/05/2020 03:04:18 UTC
Local Date/Time (+1.0)	01/05/2020 4:14 AM CET
Reference Latitude	51.7024°N ±0.003°
Reference Longitude	16.1257°E ±0.0002°
Reference Altitude	25.4 ± 2 km
Estimated Energy/Mass	0.006 kt / 150 kg*
Bearing (Heading)	93° ± 3° E
Incidence Angle	72.85° ± 5° from vertical
Entry Speed	17.5 ± 1 km/s

Strewn Field Prediction Data:

Simulation Date/Time	01/11/2020 22:38 UTC
Simulation Engineer	Jim Goodall
Trajectory Data Source(s)	Video data from Lindenberg, Tomaszow-Mazowiecki, Szczecin, Poznan (2), Roszkow, and Wroclaw AMS Event 111-2020
Weather Data Source	IGRA Weather Balloon Data
Simulation Type	Monte Carlo, Unknown Meteoroid
Simulation Data Count	419 scenarios / 92,461 fragments

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



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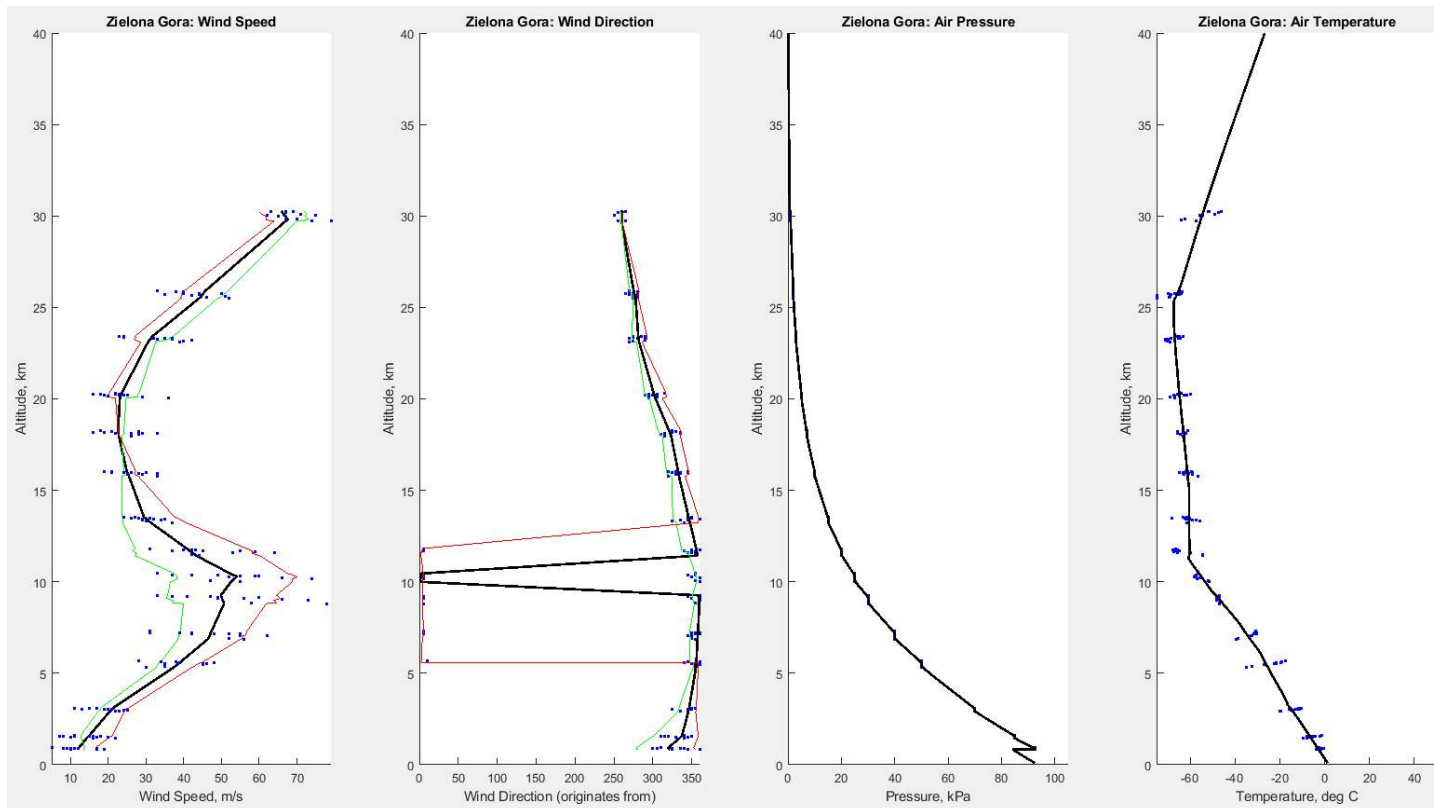


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Weather Data Summary

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
01/11/2020	3.0	Mistake found in the end altitude calculation, based on the height of the house in Roszkow and false assumption realized on lens distortion in the Tomaszow-Mazowiecki video. Further analysis of the Lindenberg video gained more precision in the end location. Simulation time was limited to provide a map for Saturday morning. An smoother map will be posted later, but accuracy should be good in this release.	Jim Goodall
01/12/2020	3.1	No trajectory changes. Additional simulation time improved map precision.	Jim Goodall

References:

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

Kryspin 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 Atmospheric Administration. <https://www.ncdc.noaa.gov/data-access/weather-balloon/integrated-global-radiosonde-archive>.

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