



StrewnLAB Meteor Bulletin — Sharon, Pennsylvania, USA

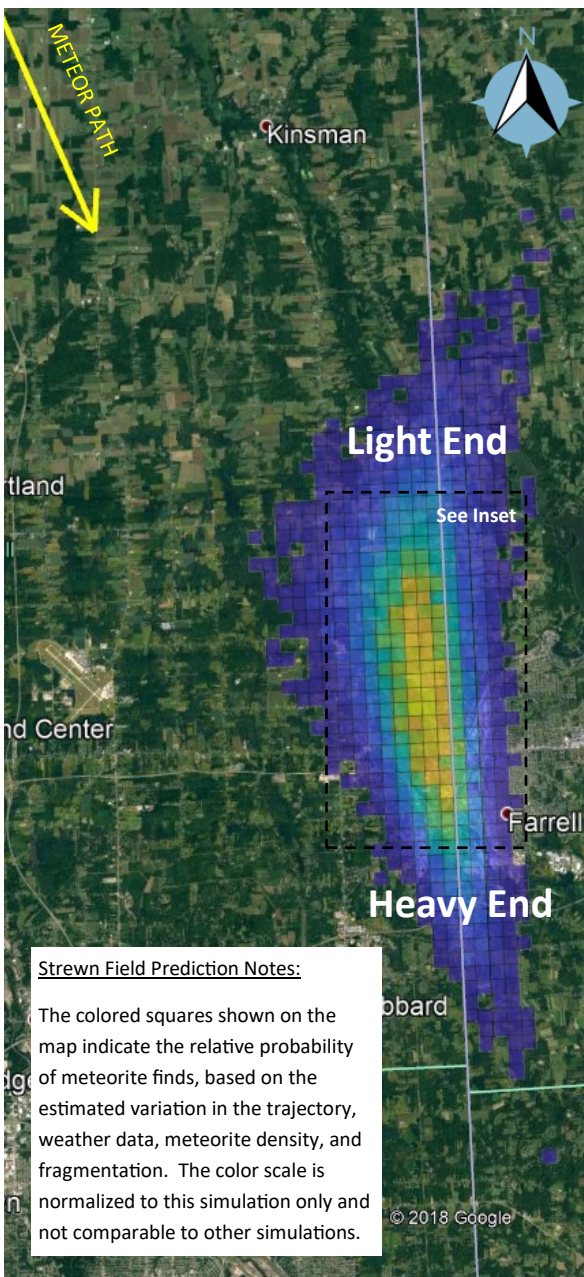
Version 1.0 | Released December 16, 2019 01:00 UTC

Trajectory Data:

Date/Time UTC	08/08/2011 05:22 UTC
Local Date/Time (-4.0)	08/08/2011 1:22 AM EDT
Reference Location	41.411°N 80.667°W
Reference Altitude	38 km
Estimated Energy/Mass	0.00037 kt / 5 kg
Bearing (Heading)	158.8° NW
Incidence Angle	52.4° from vertical
Entry Speed	25 km/s

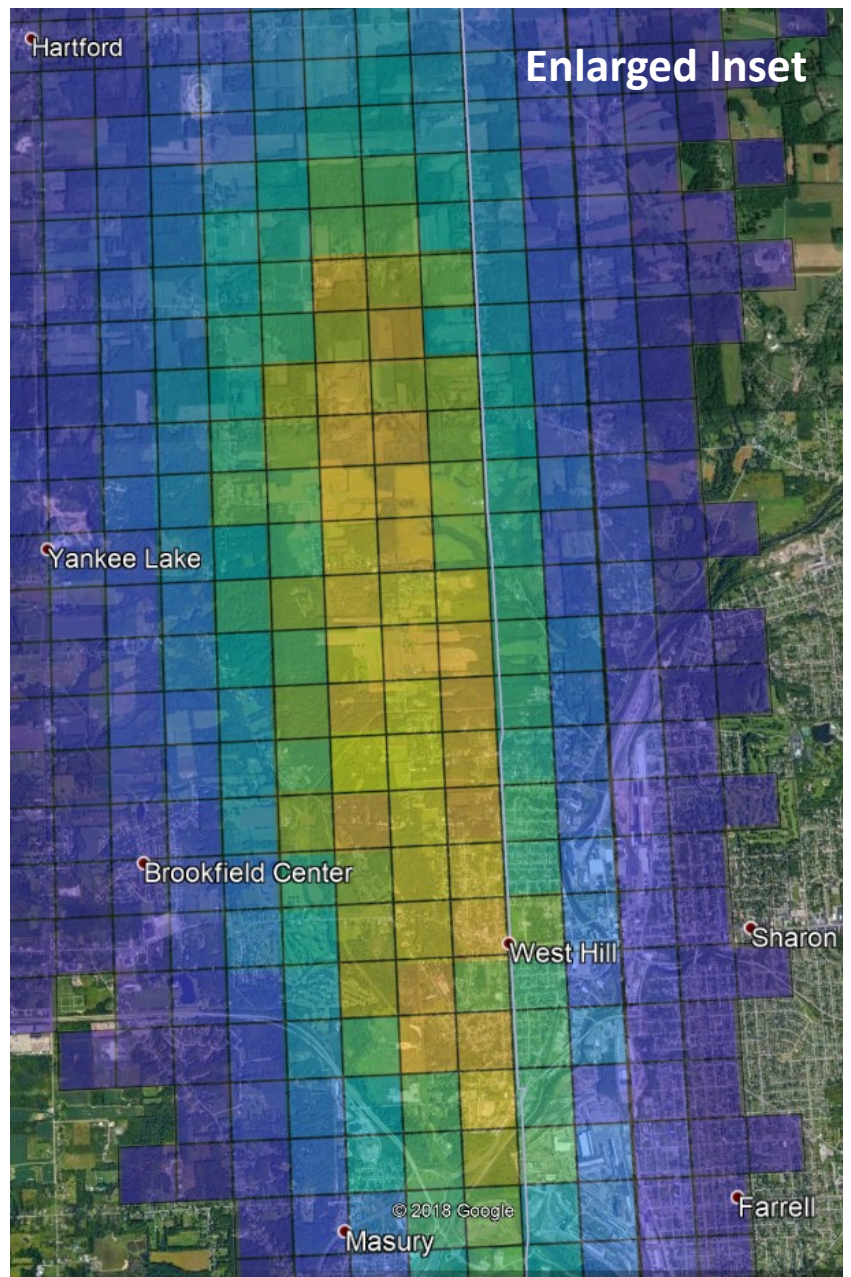
Strewn Field Prediction Data:

Simulation Date/Time	12/01/2019 03:40 UTC
Simulation Engineer	Jim Goodall
Trajectory Data Source(s)	NASA Bulletin AMS Event 803-2011
Weather Data Source	IGRA Weather Balloon Data
Simulation Type	Monte Carlo, Unknown Meteoroid
Simulation Data Count	2,658 scenarios / 50,641 fragments



Strewn Field Prediction Notes:

The colored squares shown on the map indicate the relative probability of meteorite finds, based on the estimated variation in the trajectory, weather data, meteorite density, and fragmentation. The color scale is normalized to this simulation only and not comparable to other simulations.



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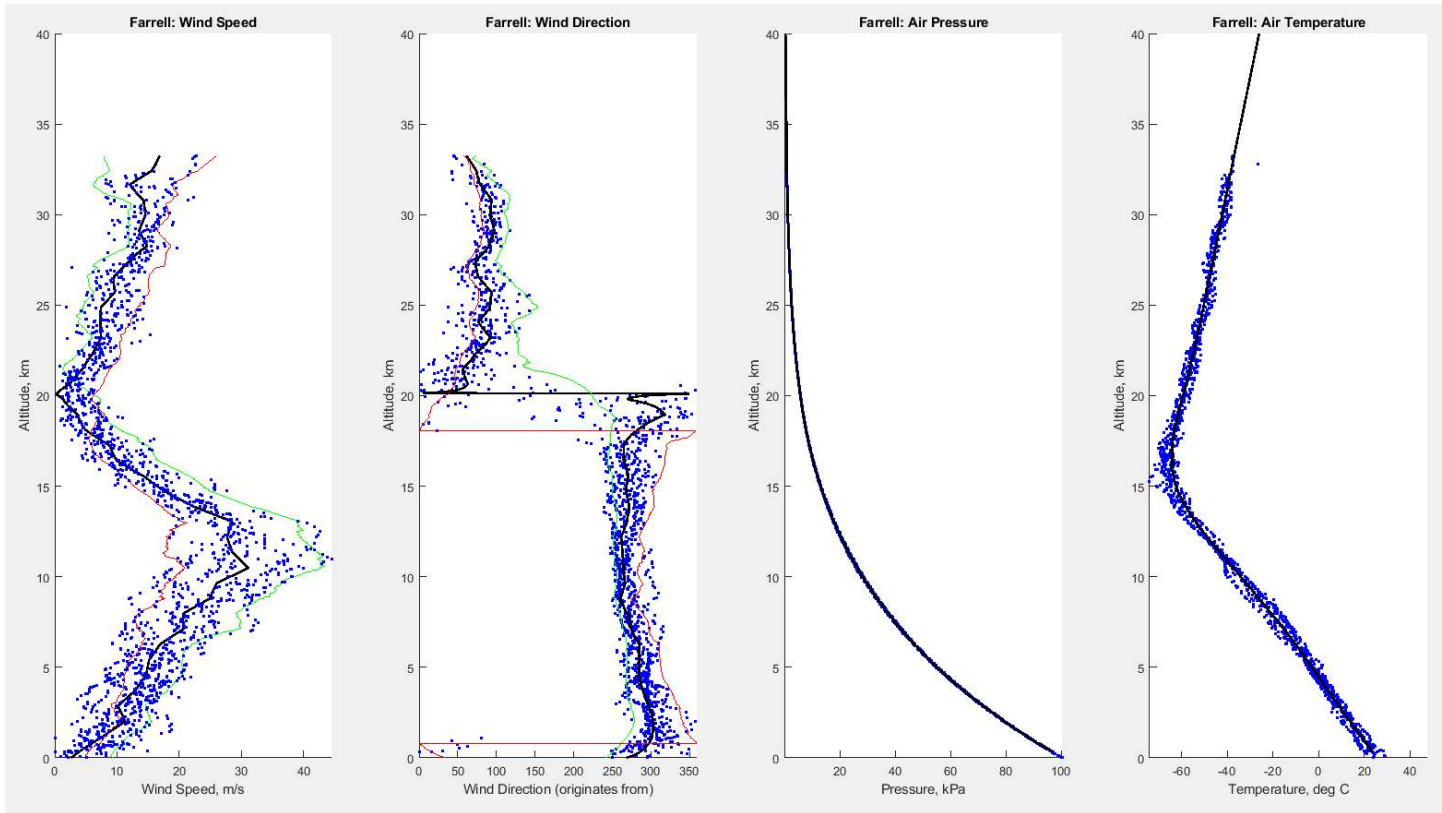


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Weather Data Summary:

Windspeed variation included: 1.5σ



Version Log:

Date	Version	Change Notes	Author(s)
11/13/2019	1	This was a small meteor event, simulated at the request of Shawn Kashay of Ohio. The trajectory was based solely on NASA Bulletin.	Jim Goodall

References:

AMS Event 803-2011. American Meteor Society. C2013-2019. https://fireball.amsmeteors.org/members/imo_view/event/2011/803

Hankey, M. American Meteor Society Website Post. C2011. <https://www.amsmeteors.org/2011/08/alert-high-confidence-meteorite-fall-in-northeast-ohio/>

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>.

Cooke, W. NASA Bulletin. c2011. Huntsville, (AL): Meteoroid Environment Office, NASA Marshall Space Flight Center; [accessed 2019 May 16]. https://www.nasa.gov/topics/solarsystem/features/watchtheskies/lake_erie.html

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