



Meteor Event Bulletin — 松原市 Songyuan, China

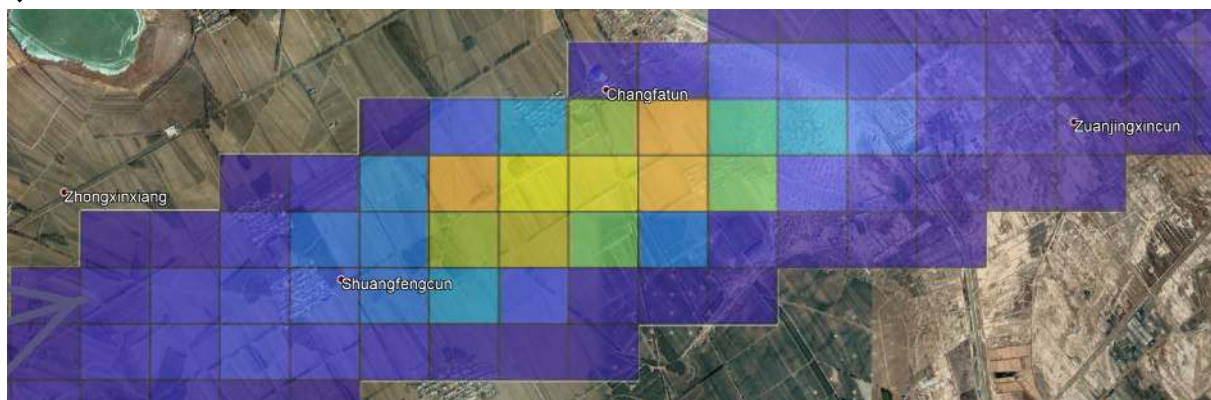
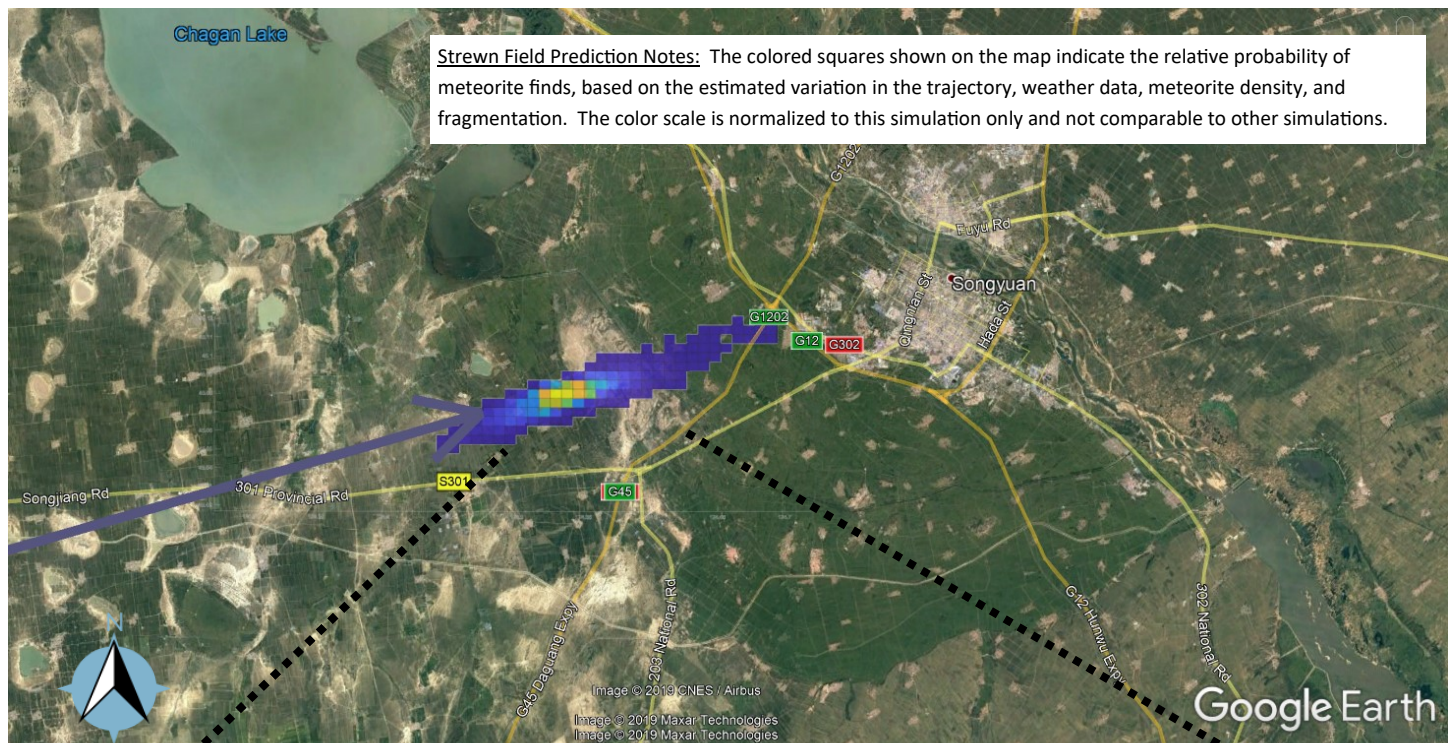
Version 1.0 | Released October 16, 2019 01:40 UTC

Trajectory Data:

Date/Time UTC	10/10/2019 16:16:36
Local Date/Time (+8.0)	10/11/2019 12:16:36 AM
Reference Location	44.3°N 122.9°E
Reference Altitude	47.3 ± 0.5 km
Estimated Energy/Mass	0.56 kt / 24111 kg
Bearing (Heading)	72.3° ± 2° ENE
Incidence Angle	40° ± 10° from vertical
Entry Speed	14.065 ± 0.5 km/s

Strewn Field Prediction Data:

Simulation Date/Time UTC	10/16/2019 1:00 UTC
Simulation Engineer	Jim Goodall
Trajectory Data Source(s)	CNEOS¹ Xingfucan Video Songyuan Park Video
Weather Data Source	IGRA Weather Balloon Data
Simulation Type	Monte Carlo, Unknown Meteoroid
Simulation Data Count	163 scenarios / 100,198 fragments



¹ <https://cneos.jpl.nasa.gov/fireballs/>

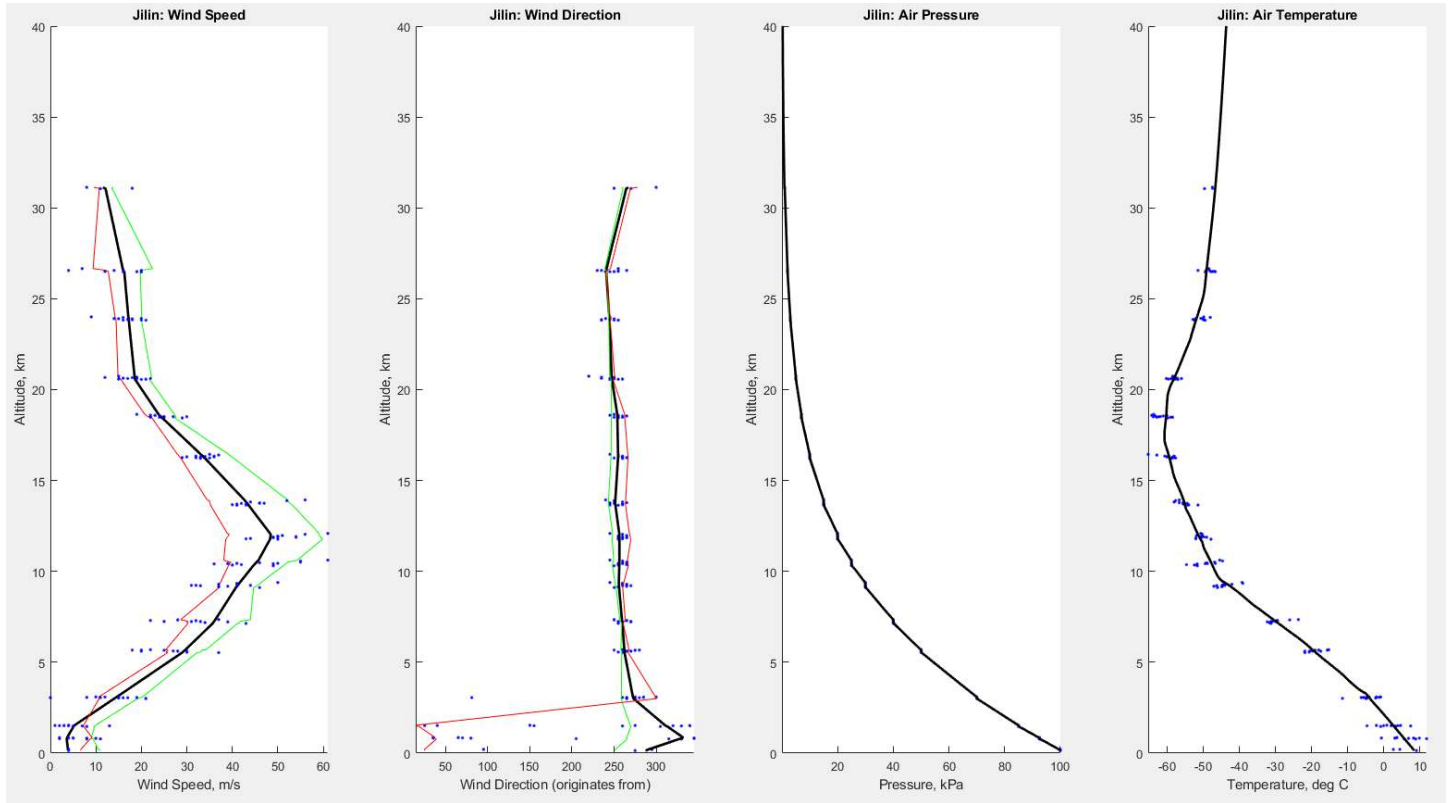


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Weather Data Summary:

Windspeed variation included: 1.5σ



Version Log:

Date	Version	Change Notes	Author(s)
10/13/2019	1	The CNEOS trajectory was found to be very inaccurate, when compared to local video data. A new trajectory was triangulated from local videos and most of the CNEOS data was thrown out.	Jim Goodall

References:

Cheung, Bo (2019, October 15). Facebook Messenger conversation.

CNEOS: Center for Near Earth Object Studies. c2019. St Paul (MN): Jet Propulsion Laboratory, California Institute of Technology; [accessed 2019 Oct 11]. <https://cneos.jpl.nasa.gov/fireballs/>.