



StrewnLAB Bulletin — Alice Springs, Australia

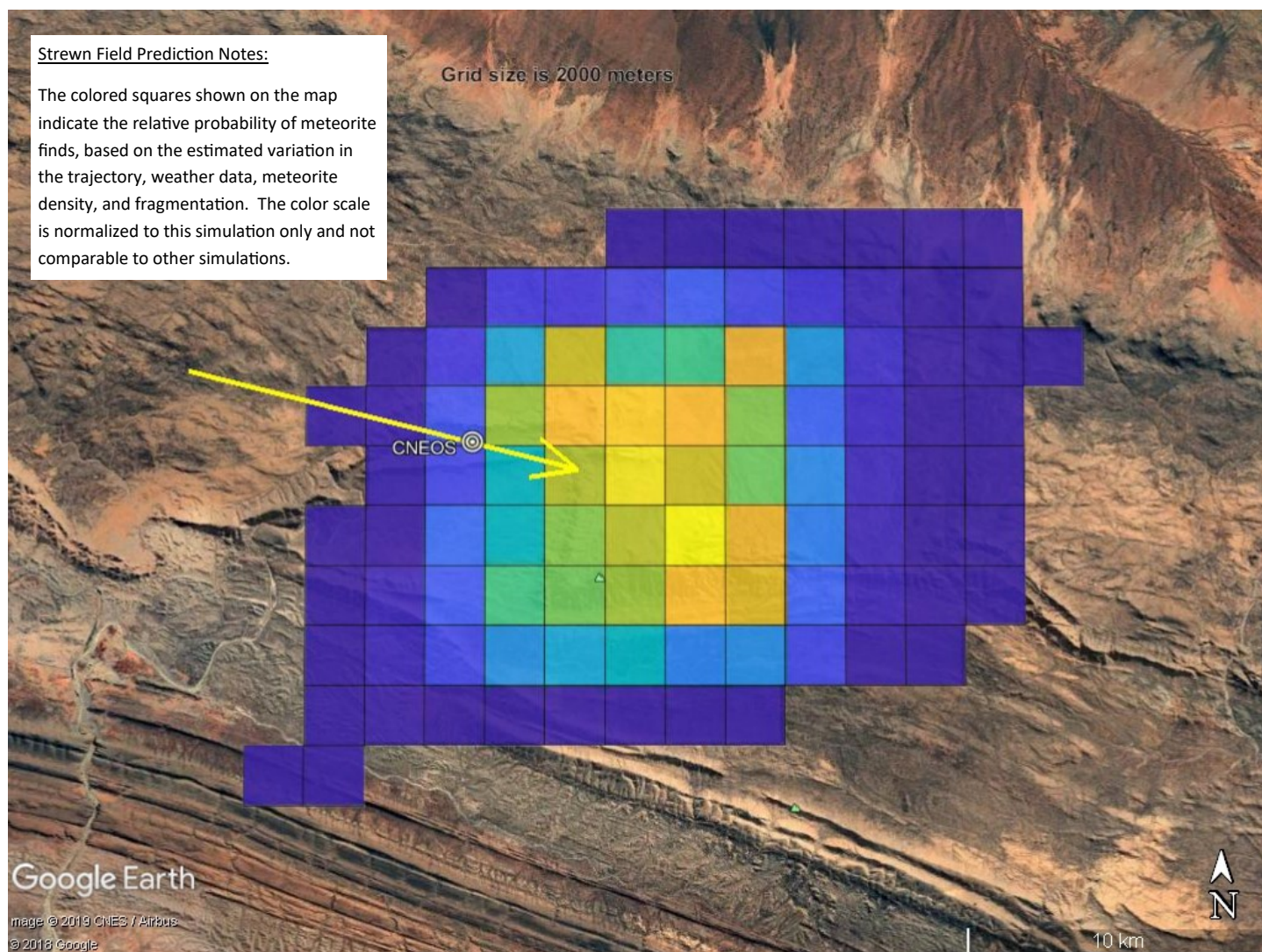
Version 1.0 | December 30, 2019 16:00 UTC

Trajectory Data:

Date/Time UTC	05/19/2019 14:47:03
Local Date/Time (+9.5)	09/20/2019 12:17:03 AM
Reference Location	23.6°S 132.8°E
Reference Altitude	33.3 ± 0.5 km
Estimated Energy/Mass	0.11 kt / 3984 kg
Bearing (Heading)	103.66° ± 3° East
Incidence Angle	11.47° ± 3° from vertical
Entry Speed	15.2 ± 0.5 km/s

Strewn Field Prediction Data:

Simulation Engineer	Jim Goodall
Trajectory Data Source	CNEOS NTPFES Tennant Creek Traffic Cam
Weather Data Source	IGRA Weather Balloon Data
Simulation Type	Monte Carlo, Unknown Meteoroid
Simulation Data Count	1,454 scenarios / 982,364 fragments



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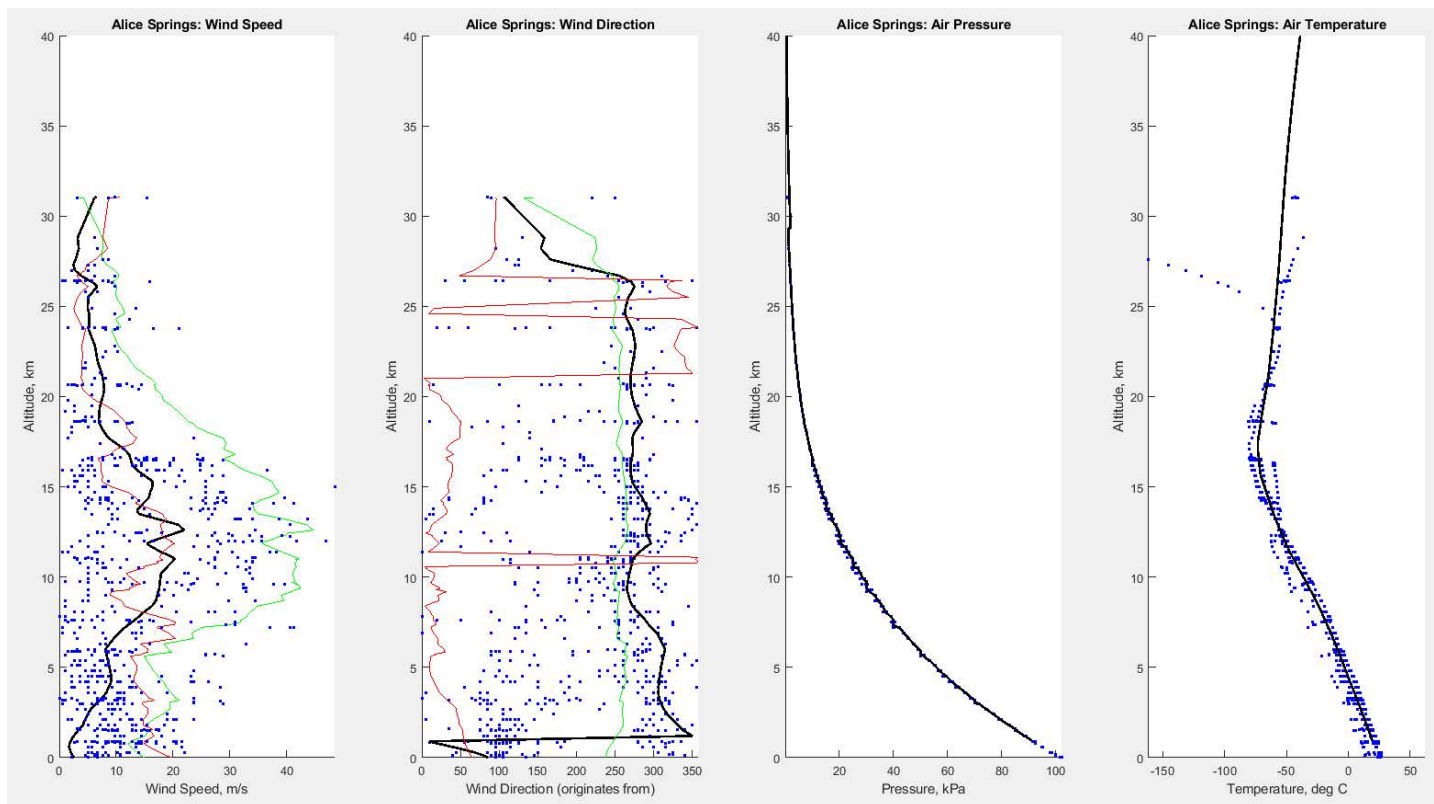


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Weather Data Summary:

Windspeed variation included: 1.5σ



Version Log:

Date	Version	Change Notes	Author(s)
12/19/2019	1	Original version based on CNEOS trajectory and validated against video footage. Clouds in the video prevent a precise location from being known. Due to the direction and uncertainty in the wind speed, the shape and light/heavy direction of the strewn field is unknown. The strewn field could be very small, but the search area is large, due to uncertainty in the event location.	Jim Goodall

References:

CNEOS: Center for Near Earth Object Studies. c2019. St Paul (MN): Jet Propulsion Laboratory, California Institute of Technology; [accessed 2019 July 3]. <https://cneos.jpl.nasa.gov/fireballs/>.

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>.

Northern Territory Police Fire and Emergency Services [NTPFES]. (2019, May 20). Whoa! CCTV footage captured the moment Alice Springs and Tennant Creek were lit up by a passing meteor overnight. #ntpfes. VIDEO: <https://twitter.com/ntpfes/>
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