# Meteor Event Bulletin — Flensburg, Germany

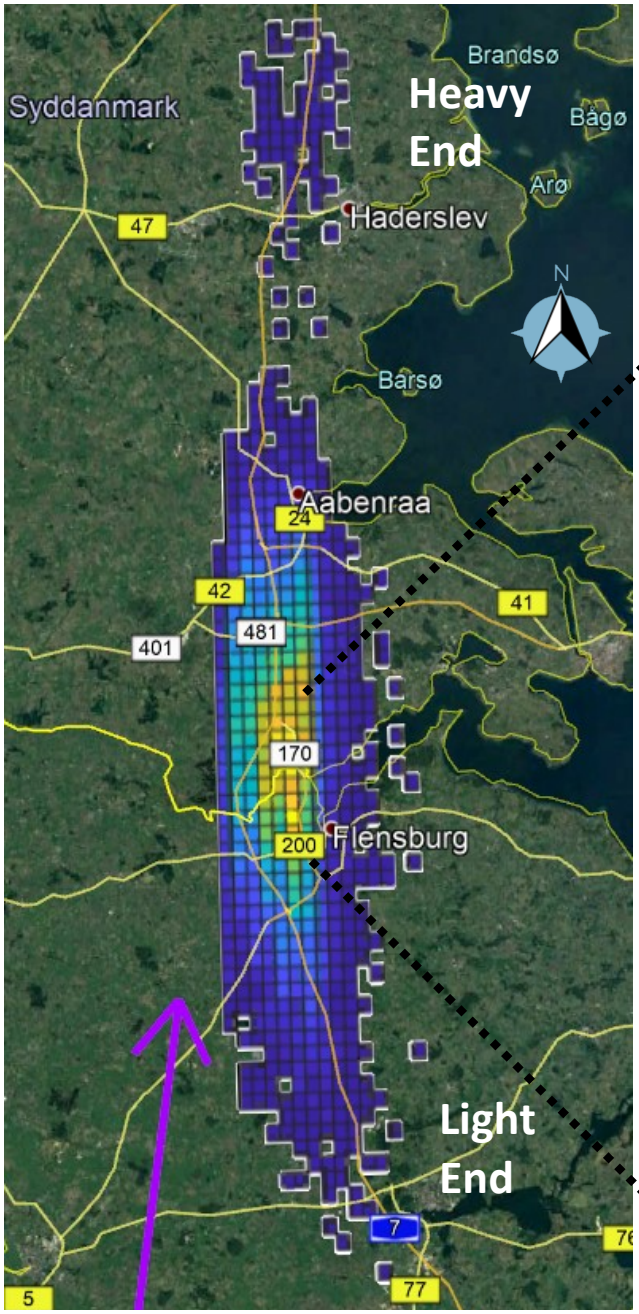
**Version 1.1: September 16, 2019 22:15 UTC**

**Trajectory Data:**

| | |
|---|---|
| **Date/Time UTC** | 09/12/2019 12:49:48 |
| **Local Date/Time (+2.0)** | 09/12/2019 2:49:48 PM |
| **Reference Location** | 54.5°N 9.2°E (CNEOS) |
| **Reference Altitude** | 42 km |
| **Estimated Energy/Mass** | 0.48 kt / 12000 kg |
| **Bearing (Heading)** | 8.487° North |
| **Incidence Angle** | 66.39° from vertical |

**Strewn Field Prediction Data:**

| | |
|---|---|
| **Simulation Date/Time UTC** | 09/12/2019 12:49:48 |
| **Simulation Engineer** | Jim Goodall |
| **Trajectory Data Source** | **CNEOS* - LOW confidence**<br>**Marchal v. Video** |
| **Weather Data Source** | IGRA Weather Balloon Data |
| **Simulation Type** | Monte Carlo, Stony Meteoroid |
| **Simulation Data Count** | 21 scenarios / 25,110 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.

*** CNEOS is a military sensor network with classified specifications and uncertain accuracy. Strewn field confidence is very low.**

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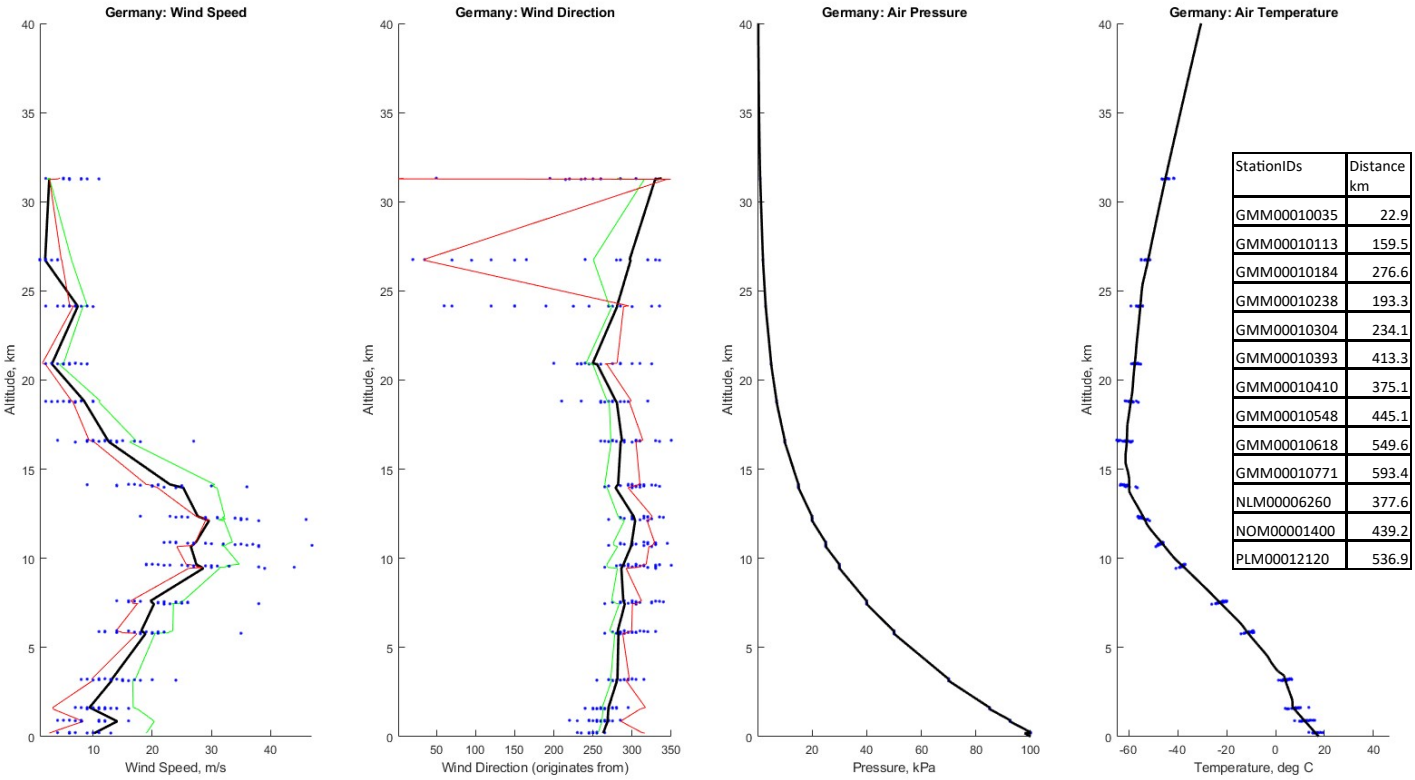
## Weather Data Summary:

**Windspeed variation included: 1.5σ**




| StationIDs | Distance km |
|---|---|
| GMM00010035 | 22.9 |
| GMM00010113 | 159.5 |
| GMM00010184 | 276.6 |
| GMM00010238 | 193.3 |
| GMM00010304 | 234.1 |
| GMM00010393 | 413.3 |
| GMM00010410 | 375.1 |
| GMM00010548 | 445.1 |
| GMM00010618 | 549.6 |
| GMM00010771 | 593.4 |
| NLM00006260 | 377.6 |
| NOM00001400 | 439.2 |
| PLM00012120 | 536.9 |

## Version Log:

| Date | Version | Change Notes | Author(s) |
|---|---|---|---|
| 09/15/2019 | 1 | Original version based on CNEOS trajectory and validated against video | Jim Goodall |
| 09/16/2019 | 1.1 | Typo correction, 12kg —> 12000kg, minor formatting changes | Jim Goodall |