

EN271106 Fireball

November 27, 2006, T = 1^h22^m27.2^s ± 0.1^s*

Atmospheric trajectory data

	Beginning	Max. light	Terminal
Velocity (km/s)	27.08 ± 0.03	26.3	13. ± 2.
Height (km)	99.50 ± 0.05	71.5	57.18 ± 0.02
Longitude (° E)	13.4015 ± 0.0009	13.62	13.7331 ± 0.0003
Latitude (° N)	48.4233 ± 0.0003	48.56	48.6324 ± 0.0002
Photometric mass (kg)	1.8	1.0	0.
Absolute magnitude	-2.0	-10.7	-1.8
Slope (°)	51.21 ± 0.05	-	50.93 ± 0.05
Total length (km)/Duration (s)	54.4 / 2.2		
Fireball type	IIIA		
EN stations No.	4 Churanov (fixed and guided FE camera), 74 Gahberg		

Radiant data (J2000.0)

	Observed	Geocentric	Heliocentric
Right ascension (°)	71.40 ± 0.09	69.80 ± 0.09	-
Declination (°)	17.22 ± 0.04	15.52 ± 0.04	-
Ecliptical longitude (°)	-	-	16.54 ± 0.05
Ecliptical latitude (°)	-	-	-4.36 ± 0.03
Initial velocity (km/s)	27.08 ± 0.03	24.85 ± 0.03	37.31 ± 0.04

Orbital data (J2000.0)

a (AU)	2.184 ± 0.014	ω (°)	100.33 ± 0.18
e	0.7820 ± 0.0011	Ω (°)	64.56719 ± 0.00005
q (AU)	0.4760 ± 0.0011	i (°)	5.86 ± 0.04
Q (AU)	3.89 ± 0.03	Shower	

Note

*Time of the fireball is given for the beginning of the light curve records taken by the brightness sensors of the autonomous fireball observatories independently at 6 Czech EN stations.