



## THE TUNGUSKA INCIDENT



Observation#1

# Tunguska©

The Tunguska event refers to a massive explosion that occurred on June 30, 1908, near the Podkamennaya Tunguska River in Siberia, Russia. Estimated to have taken place at around 7:14 AM local time, the explosion is thought to have been caused by the airburst of a small asteroid or comet, approximately 50-60 meters in diameter, entering the Earth's atmosphere at high speed (about 27 km/s) and exploding at an altitude of 5-10 kilometers (15,000–30,000 feet)



Observation #2

## Impact and Damage

The explosion released energy equivalent to 10-15 megatons of TNT, resulting in the devastation of approximately 2,000 square kilometers (500,000 acres) of forest. It is estimated that about 80 million trees were flattened, creating a distinctive radial pattern where trees were knocked down away from the epicenter .

Eyewitness accounts describe a fireball lighting up the sky, followed by a shockwave that knocked people off their feet and caused buildings to shake as if an earthquake had struck



Landscape #1

The event was so powerful that it was recorded by seismographs in western Europe, and bright **noctilucent clouds** were observed in the skies for days afterward . Despite the scale of the explosion, there was no impact crater found at the site; instead, investigators discovered a marshy area with scorched trees but no remaining fragments of the object .

The first scientific expedition to investigate the site was led by Soviet scientist **Leonid Kulik** between 1927 and 1930. Kulik's team found evidence of widespread destruction but no meteorite fragments, leading to ongoing debates about the nature of the object that caused the explosion. Theories have ranged from a comet or asteroid to more speculative ideas involving extraterrestrial technology's secret weapons.



Explorers #1



Explorers #2



Observations #3





## Conclusion

The Tunguska event remains one of the most significant unexplained phenomena in modern history. It serves as a reminder of the potential hazards posed by near-Earth objects and has sparked ongoing research into planetary defense against similar cosmic threats in the future



Explorers #3



## Objects #1

**Akulina and Ivan:** An Evenki couple camping near the Chambe River experienced the event firsthand. Akulina described how something hit their tent, causing it to shake violently. They saw a blinding light and felt intense heat that burned their skin. The explosion destroyed their belongings, but they survived the ordeal, although others in the area were less fortunate.