



Siberian Skies Ignited: Small Asteroid Impact

Description

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An asteroid about 70 centimeters in size was seen by scientists just hours before it burned up harmlessly in the sky above Siberia.

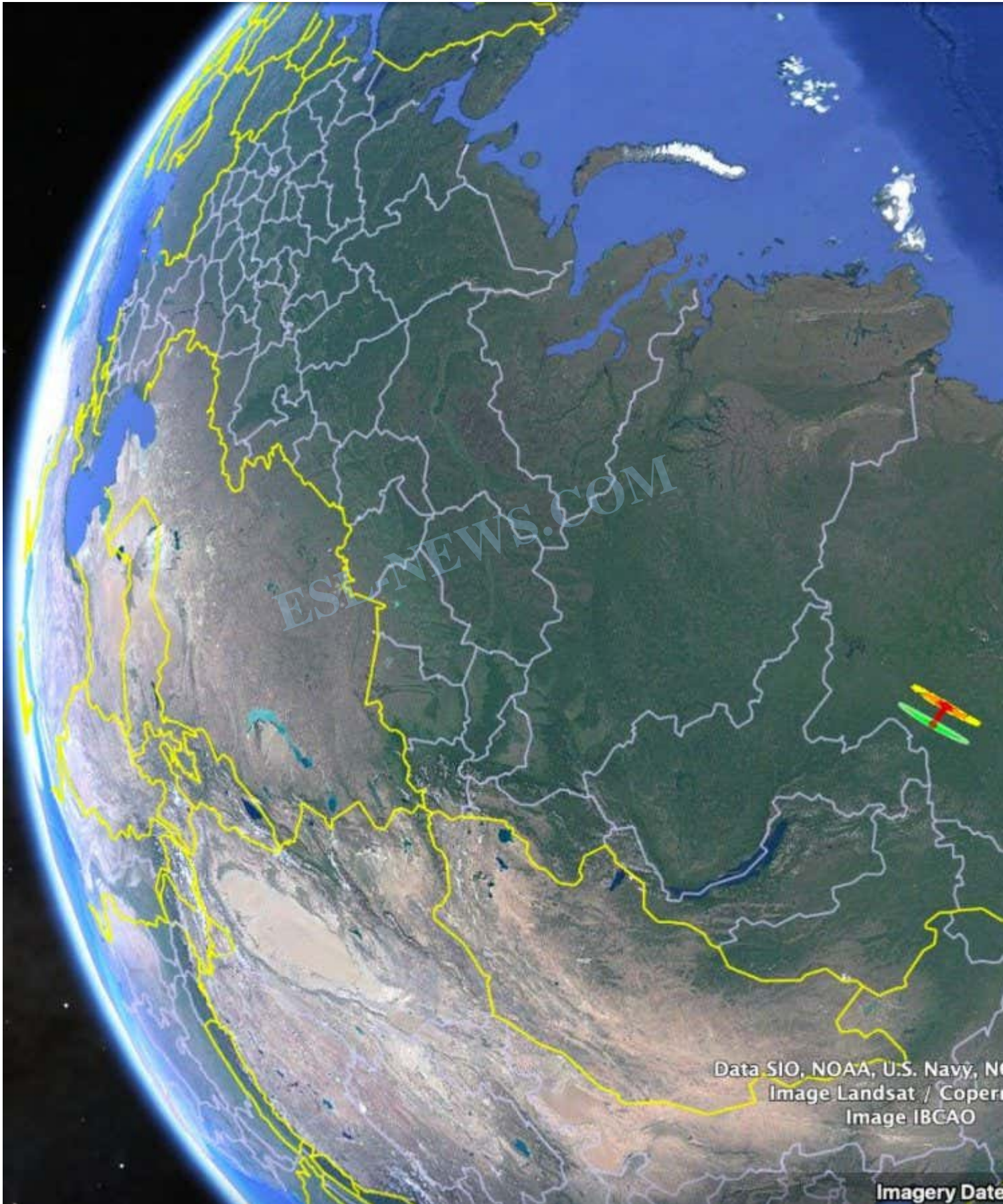
The European Space Agency (ESA) warned people in Siberia about the asteroid's bright light in the sky at 11.15 pm local time.

Astronomer Alan Fitzsimmons from the UK said the small asteroid posed no danger but would create a bright fireball in the sky.

Scientists can now detect small asteroids early, like the one named COWEPC5, the fourth predicted to hit the Earth this year.

Early detection allows astronomers to study asteroids and collect fragments for research. If we find larger dangerous asteroids approaching Earth, we may be able to change their path or evacuate areas at risk.

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NASA and ESA track asteroids with telescopes to understand and predict their orbits better.

The asteroid was spotted by NASA's ATLAS system, giving scientists a week's warning of its impact.

Fitzsimmons said it was a win for science and a distraction for people in Siberia.

Vocabulary List:

1. **Asteroid** /'æs.tə.rɔɪd/ (noun): A small rocky body orbiting the sun often found in the asteroid belt between Mars and Jupiter.
2. **Harmlessly** /'hɑːrmləsli/ (adverb): In a way that does not cause harm or injury.
3. **Detection** /dɪ'tek.fən/ (noun): The action or process of identifying the presence of something.
4. **Fragment** /'fræg.mənt/ (noun): A small part broken or separated from something.
5. **Orbit** /'ɔːr.bɪt/ (noun): The curved path of a celestial object or spacecraft around a star planet or moon.
6. **Evacuate** /ɪ'væk.ju.eɪt/ (verb): To remove someone from a place of danger to a safer location.

Comprehension Questions

Multiple Choice

1. What warning did the European Space Agency give to people in Siberia regarding the asteroid?
Option: A. Tsunami alert
Option: B. Bright light in the sky
Option: C. Coming meteor shower
Option: D. Solar eclipse
2. Who spotted the asteroid C0WEPC5?
Option: A. NASA
Option: B. ESA
Option: C. Alan Fitzsimmons
Option: D. ATLAS system
3. What is one of the benefits of early detection of asteroids mentioned in the text?
Option: A. Creating light shows in the sky
Option: B. Changing the path of dangerous asteroids
Option: C. Evacuating areas at risk



Option: D. Collecting fragments for research

4. What did Alan Fitzsimmons describe the asteroid as?

- Option: A. Dangerously large
- Option: B. Harmless but bright
- Option: C. A comet
- Option: D. A meteorite

5. What time did the ESA warn people in Siberia about the asteroid?

- Option: A. 6 AM local time
- Option: B. 8 PM local time
- Option: C. 11:15 PM local time
- Option: D. 2:30 PM local time

6. How many asteroids were predicted to hit the Earth that year?

- Option: A. One
- Option: B. Two
- Option: C. Three
- Option: D. Four

True-False

- 7. Alan Fitzsimmons stated that the small asteroid posed a danger to Earth.
- 8. NASA and ESA track asteroids to better understand and predict their orbits.
- 9. The asteroid was detected by the ATLAS system giving scientists a month of warning about its impact.
- 10. Early detection of asteroids allows astronomers to evacuate areas at risk.
- 11. Astronomers can study asteroids when they are detected early.
- 12. Alan Fitzsimmons described the asteroid as a win for science and a concern for people in Siberia.

Gap-Fill



13. The European Space Agency warned people in Siberia about the asteroid's bright light at _____ pm local time.
15. The asteroid C0WEPC5 was the _____ predicted to hit the Earth that year.
16. NASA and ESA track asteroids with telescopes to understand and predict their _____ better.
17. Early detection allows astronomers to study asteroids and collect fragments for _____ .
18. If larger dangerous asteroids are detected approaching Earth, we may be able to change their path or evacuate areas at _____ .

Answer

Multiple Choice: 1. B. Bright light in the sky 2. A. NASA 3. D. Collecting fragments for research 4. B. Harmless but bright 5. C. 11:15 PM local time 6. D. Four

True-False: 7. False 8. True 9. False 10. False 11. True 12. False

Gap-Fill: 13. 11:15 15. fourth 16. orbits 17. research 18. risk

Vocabulary quizzes

Multiple Choice (Select the Correct answer for each question.)

1. What are the rules and guidelines set by authorities called?

Option: Laws
Option: Suggestions
Option: Preferences
Option: Technology

2. What is the income generated by a company called?

Option: Dementia
Option: Proteins
Option: Revenue



Option: Ageing

3. Who conducts scientific investigations to advance knowledge?

- Option: Health
- Option: Hailstones
- Option: Damage
- Option: Researchers

4. What medical procedure creates images of the body?

- Option: Predict
- Option: Casualties
- Option: Unique
- Option: Scans

5. Which term refers to one's liking or favoring of something?

- Option: Forecast
- Option: Artificial intelligence
- Option: Suggestions
- Option: Preference

6. What is a large rocky body that orbits the sun known as?

- Option: Technology
- Option: Asteroid
- Option: Harmlessly
- Option: Detection

7. What action is taken to move people out of a dangerous area?

- Option: Fragment
- Option: Orbit
- Option: Evacuate
- Option: Negotiations

8. What motivates or encourages someone to do something?

- Option: Damage
- Option: Incentive
- Option: Uniqueness
- Option: Inspiration

9. Which term refers to the overall well-being of a person?



- Option: Preferences
- Option: Technology
- Option: Health
- Option: Artificial intelligence

10. What is the process of discovering or identifying something?

- Option: Detection
- Option: Harmlessly
- Option: Regulations
- Option: Unique

Gap-Fill (Fill in the blanks with the correct word from the vocabulary list.)

11. The tsunami caused extensive _____ to the coastal areas.
12. Meteorologists use advanced technology to predict the weather _____ .
13. The diplomats are engaging in peace _____ to resolve the conflict.
14. The war resulted in a high number of _____ among both soldiers and civilians.
15. Watching the sunrise over the mountains filled him with a sense of _____ and awe.
16. The government is working on establishing a new legal _____ for environmental protection.
17. Many industries are exploring the potential of _____ to streamline processes and enhance productivity.
18. Each snowflake is _____ in its shape and structure.
19. As individuals age the risk of developing _____ increases.
20. A balanced diet should include sources of essential _____ for overall health.

Matching Sentences (Match each definition to the correct word from the vocabulary list.)

21. The process of growing old and the changes associated with it.



22. To predict or estimate a future event or trend.
23. Being the only one of its kind; unlike anything else.
24. Frozen raindrops that fall as pellets of ice during a thunderstorm.
25. To make an educated guess or projection about a future occurrence.
26. The application of scientific knowledge for practical purposes especially in industry.
27. A small piece or part that has broken off from something larger.
28. The path followed by a celestial body around a star planet or moon.
29. Ideas or recommendations offered for consideration or action.
30. To remove people from a dangerous or hazardous place.

Answer

Multiple Choice: 1. Regulations 2. Revenue 3. Researchers 4. Scans 5. Preference 6. Asteroid 7. Evacuate 8. Incentive 9. Health 10. Detection

Gap-Fill: 11. damage 12. forecast 13. negotiations 14. casualties 15. inspiration 16. framework 17. artificial intelligence 18. unique 19. dementia 20. proteins

Matching sentence: 1. Ageing 2. Forecast 3. Unique 4. Hailstones 5. Predict 6. Technology 7. Fragment 8. Orbit 9. Suggestions 10. Evacuate

CATEGORY

1. Sci/Tech - LEVEL2

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Author

aimeeyoung99