



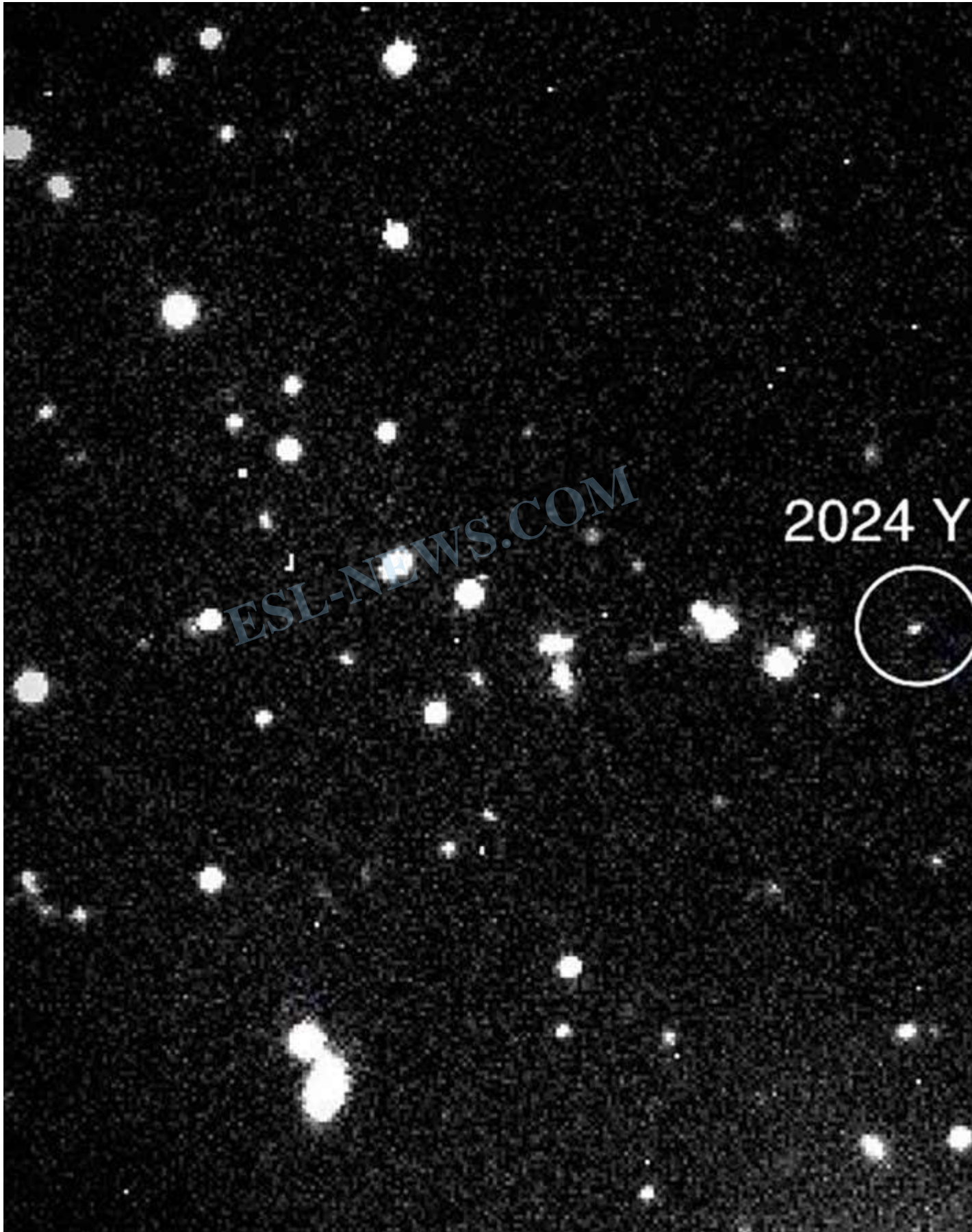
Asteroid 2024 YR4 Predicted to Safely Avoid Earth in 2032

Description

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The world's space agencies have determined that the risk of asteroid 2024 YR4 colliding with Earth is now less than 1%. This means that the likelihood of a dangerous impact is very low. However, the asteroid will still pass close to our planet, providing astronomers with a unique opportunity for observation.

Initial concerns about asteroid 2024 YR4 were raised in December last year when astronomers noticed its potential collision course with Earth in 2032. The asteroid is estimated to be between 40 and 90 meters wide and could cause significant damage if it were to hit a city. Through continuous tracking and observations, the risk of impact has been steadily decreasing.

New data on 20 February significantly lowered the risk of impact to less than 1%, causing relief among experts. While the asteroid no longer poses a significant threat, it remains a valuable opportunity for testing planetary defense systems and conducting scientific research.

Further observations are planned for March using the James Webb Space Telescope to gather more information about asteroid 2024 YR4. A decision on potential actions will be made by the United Nations-backed Space Mission Planning Advisory Group by the end of April.

Although the chance of the asteroid hitting Earth is minimal, there is a slightly increased risk of it impacting the moon, prompting ongoing monitoring and evaluation by experts.

This situation serves as a valuable learning experience for handling future asteroid threats and emphasizes the importance of being prepared for such events.

Vocabulary List:

1. **Asteroid** /'æs.tə.rɔɪd/ (noun): A small rocky body in outer space often found between the orbits of Mars and Jupiter.
2. **Collision** /kə'liʒ.ən/ (noun): An incident in which two or more objects violently hit each other.
3. **Likelihood** /'laɪ.kli.hood/ (noun): The probability or chance that something will happen.
4. **Significant** /sɪg'nɪf.ɪ.kənt/ (adjective): Of great importance or meaning.
5. **Opportunity** /ɒp.ə'tjuː.nə.ti/ (noun): A set of circumstances that makes it possible to do something.
6. **Monitoring** /'mɒn.ɪ.tər.ɪŋ/ (noun): The act of observing and checking the progress or quality of something over a period of time.

Comprehension Questions

Multiple Choice

1. What risk percentage has been determined for asteroid 2024 YR4 colliding with Earth?



- Option: Less than 1%
- Option: 5%
- Option: 10%
- Option: 25%

2. When were initial concerns raised about asteroid 2024 YR4?

- Option: December last year
- Option: January this year
- Option: September last year
- Option: February this year

3. What is the estimated width range of asteroid 2024 YR4?

- Option: 40-90 meters
- Option: 100-150 meters
- Option: 10-30 meters
- Option: 200-250 meters

4. When are further observations planned for asteroid 2024 YR4?

- Option: March
- Option: May
- Option: July
- Option: September

5. What is the potential impact year of asteroid 2024 YR4 with Earth?

- Option: 2032
- Option: 2040
- Option: 2026
- Option: 2055

6. What does the situation with asteroid 2024 YR4 emphasize?

- Option: Importance of preparedness for asteroid threats
- Option: Observational limitation of space agencies
- Option: Ineffectiveness of planetary defense systems
- Option: Lack of interest in scientific research

True-False

7. There is no risk of asteroid 2024 YR4 impacting the moon.



8. Astronomers are not using the James Webb Space Telescope for further observations of asteroid 2024 YR4.

9. The risk of impact for asteroid 2024 YR4 has been increasing over time.

10. The United Nations-backed Space Mission Planning Advisory Group will make decisions by the end of May.

11. Asteroid 2024 YR4 could cause significant damage if it collides with a city.

12. The risk of asteroid 2024 YR4 colliding with Earth was significantly lowered on 20 February.

Gap-Fill

13. Initial concerns about asteroid 2024 YR4 were raised in December last year when astronomers noticed its potential collision course with Earth in _____.

14. New data on 20 February significantly lowered the risk of impact to less than _____%.

14. New data on 20 February significantly lowered the risk of impact to less than _____
%.

15. Further observations are planned for _____ using the James Webb Space Telescope.

16. The asteroid 2024 YR4 remains a valuable opportunity for testing _____ and
conducting scientific research.

17. Although the chance of the asteroid hitting Earth is minimal, there is a slightly increased risk of it
impacting _____.

18. This situation serves as a valuable learning experience for handling future _____
and emphasizes the importance of being prepared for such events.



Answer

Multiple Choice: 1. Less than 1% 2. December last year 3. 40-90 meters 4. March 5. 2032 6. Importance of preparedness for asteroid threats

True-False: 7. False 8. False 9. False 10. False 11. True 12. True 14. True

Gap-Fill: 13. 2032 14. 1 15. March 16. planetary defense systems 17. the moon 18. asteroid threats

Vocabulary quizzes

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

1. What is the process of making a system more efficient and effective called?

- Option: Authenticity
- Option: Accountability
- Option: Streamline
- Option: Cybersecurity

2. What is a small rocky body that orbits the sun called?

- Option: Collision
- Option: Asteroid
- Option: Remission
- Option: Surveillance

3. Which term refers to the chance of something happening?

- Option: Significant
- Option: Opportunity
- Option: Likelihood
- Option: Compromise

4. What is the process of carrying out a systematic inquiry or examination into something called?

- Option: Cybersecurity
- Option: Surveillance
- Option: Investigate
- Option: Encryption

5. What is the process of converting information or data into a code to prevent unauthorized access called?



- Option: Remission
- Option: Encrypted
- Option: Regulation
- Option: Tumor

6. What term is used for people who publicly support a particular cause or policy?

- Option: Capabilities
- Option: Profession
- Option: Advocates
- Option: Groundbreaking

7. What is the action of bringing something to an end or stopping it called?

- Option: Groundbreaking
- Option: Termination
- Option: Concerns
- Option: Supervision

8. What does potency refer to in terms of strength or power?

- Option: Potency
- Option: Accountability
- Option: Capabilities
- Option: Regulation

9. What is the act of observing and checking the progress or quality of something over a period of time?

- Option: Profession
- Option: Monitoring
- Option: Groundbreaking
- Option: Concerns

10. Which term refers to a pledge or promise to do something?

- Option: Opportunity
- Option: Significant
- Option: Commitment
- Option: Termination

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

11. _____ means being answerable for your actions and decisions.

12. The results of the experiment showed a _____ improvement in performance.



13. The consultant provided valuable _____ helping us solve the complex problem.
14. Government agencies enforce _____ to ensure industries operate within set guidelines.
15. The new software has enhanced our team's _____ to analyze data efficiently.
16. The scientists made a _____ discovery that revolutionized the field of medicine.
17. Managers provide _____ to ensure tasks are completed according to company standards.
18. The team discussed their _____ regarding the upcoming project deadline.
19. The merger presented an excellent _____ for the company to expand into new markets.
20. The biopsy confirmed the presence of a malignant _____ in the patient's lung.

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

21. The politician was widely for his controversial statements during the debate.
22. The research team achieved a breakthrough in renewable energy technology.
23. The audience was by the magician's disappearing act.
24. After undergoing treatment the patient's cancer went into .
25. In negotiations both parties may need to make concessions to reach a .
26. Companies invest in measures to protect their digital assets from online threats.
27. Law enforcement agencies conduct to monitor suspicious activities.
28. The training program aims to enhance employees' skills and .
29. Becoming a doctor is a noble that requires years of study and dedication.



30. Users must go through a secure login process for proper before accessing sensitive data.

Answer

Multiple Choice: 1. Streamline 2. Asteroid 3. Likelihood 4. Investigate 5. Encrypted 6. Advocates 7. Termination 8. Potency 9. Monitoring 10. Commitment

Gap-Fill: 11. Accountability 12. Significant 13. Expertise 14. Regulation 15. Capabilities 16. Groundbreaking 17. Supervision 18. Concerns 19. Opportunity 20. Tumor

Matching sentence: 1. Criticized 2. Groundbreaking 3. Astonished 4. Remission 5. Compromise 6. Cybersecurity 7. Surveillance 8. Capabilities 9. Profession 10. Authentication

CATEGORY

1. Sci/Tech - LEVEL3

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