

Report on Lunar Visibility

Key Factors Influencing Visibility:

Lunar altitude significantly impacts visibility; higher altitudes above the horizon generally correlate with improved visibility. Illumination, expressed as a percentage, dictates the moon's brightness and its contrast against the background sky. Atmospheric conditions such as clarity and absence of obstructions like clouds or haze are crucial. Finally, a pre-defined visibility criterion, such as a minimum altitude and illumination threshold, determines whether the moon is deemed "visible."

Common Challenges and Favorable Conditions:

- **Challenges:** Low lunar altitude near the horizon, low illumination during new moon phases, adverse weather conditions (cloud cover, fog), and light pollution all hinder visibility.
- **Favorable Conditions:** High lunar altitude well above the horizon, high illumination during full or gibbous moon phases, clear atmospheric conditions, and locations with minimal light pollution greatly improve visibility.

Conclusion:

Based on the factors above, moon visibility can be considered at this time to be low.