

Volcanic Exomoons Glowing in Alkali and Infrared Light

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Figure 1: Top-down aerial view of Athens lit by glowing sodium vapor lamps (S. Tank). The characteristic orange, neutral sodium doublet at 5890/5896 Angstrom

INTRODUCTION

- Exomoons continue to be evasive in continuum light due to their minute mass with respect to the exoplanet ($M_s/M_p < 10^{-4}$)
- Geologically-active exoplanets glow in narrow-band light and potassium resonance demonstrably outshining alkali signature as is the case of Jupiter's Io (Figure 1)

Exo-Io Exomoon

- Exomoon candidate

