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A Closer Look at Potential Exoplanets Targets from the Nooitgedacht Observatory

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Surveys like KELT and TESS searches for transiting extrasolar planets, and have found many potential candidates. The optical telescope at the Nooitgedacht Observatory is ideal for follow-up observations of these candidates, and to collect more data of specific promising candidates. Candidates that are suitable for observations were identified. The suitability of candidates depends on the magnitude of the host star, the decrease in magnitude during the transit, and the angle at which the star is located when the transit begins. From numerous observations, the capabilities of the optical telescope at the Nooitgedacht Observatory are established and refined.

The data collected from the suitable candidates was processed using aperture photometry and compiled as a light curve. The light curve was then analyzed to study the transits and compared them to prior data obtained from previous observations. We present the light curve of exoplanet WASP 80-b and conclude that it is the ideal type of exoplanet to observe from the Nooitgedacht Observatory

Apply to be considered for a student ; award (Yes / No)?

Yes

Level for award;(Hons, MSc, PhD, N/A)?

MSc

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