

Abstract Submitted  
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**Quantification of atmospheric seeing conditions while conducting observations in Ursa Major.**<sup>1</sup> JOSHUA CLIFFORD, BRITTANY JACKSON, ADAM JONES, Graves County High School — Researchers from Telescopes in Education and Research at Murray State (TERMS) recently developed indices to quantify astronomical seeing conditions. The required images were converted from a consumer grade VHS-C camcorder video by USB powered TV tuner into an uncompressed AVI format and imported into Image J for analysis. The first analysis was for HIP 26241, also known as Iota Orionis. We reproduce the technique for a different region of the sky around HIP 65378, also known as Mizar, at a different time of year from the same urban environment. For the star in question, we determine the photometric index and measure the horizontal and vertical drift from frame to frame of the uncompressed AVI file to quantify the “jitter” observed in the video. Our results and the previous results for Iota Orionis with regard to photometric index and “jitter” will be compared.

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