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Analysis of Delta-Scuti Variable TYC 1951-1755-1 Using All Sky Surveys SAMUEL LIECHTY, JARROD HANSEN, ERIC HINTZ, Brigham Young University - Provo — We attempt to determine the validity of measuring the periodicity of short-term variables using irregular, long-term cadences. To do so, we use a star identified in the ASAS-SN archive and the ATLAS survey, and using data taken at Brigham Young University confirm its period of pulsation. The period of TYC 1951-1755-1 was analyzed and found to be 0.120702 Julian days. After comparing the period to that found by the ATLAS survey, a difference of .04% was found. The period of pulsation of TYC 1951-1755-1 was also used to find a distance of 1080 +/- 3 pc and was compared to parallax data gathered from the Gaia archive, resulting in a difference of distances of at least 40 pc.

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