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Identifying and Understanding Short Period Variables Using All Sky Surveys[1] JARROD HANSEN, SAM LIECHTY, ERIC HINTZ, Brigham Young University — We investigate the effectiveness of all sky surveys in identifying short period variables. We discuss obtaining data from several sources to use in confirming the periods found by these surveys. We focus on data obtained by the ASAS-SN and ATLAS surveys supplemented by data taken at BYU to explore these objects. Using data from these surveys we analyze periodicity using Period04 and compare results between the data sets. We select candidate stars using the ASAS-SN and ATLAS surveys and have investigated 31 objects at the time of this abstract. We also discuss misidentification of variability and suggest methods whereby this may be mitigated.

[1]We acknowledge the support of BYU and thank them for access to their telescopes

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