

Abstract Submitted
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Investigating Unassociated HAWC Sources in the Region $l=52-62$ Degrees NICOLE FIRESTONE, MIGUEL MOSTAFA, Pennsylvania State University, HIGH ALTITUDE WATER CHERENKOV GAMMA-RAY OBSERVATORY (HAWC) COLLABORATION — The High Altitude Water Cherenkov Gamma-Ray Observatory (HAWC) is a very high energy (VHE; > 100 GeV) gamma-ray detector with a large field of view and high duty cycle ($> 95\%$). In 2017, the HAWC Collaboration presented the 2HWC catalog from 508 days of data collection, which included 16 candidate sources farther than 1 degree from any previously identified TeV source. We examined these candidate sources over time and updated their locations and extensions. Now, with a data collection period nearly triple in duration (1523 days), we compare our findings to that of the newly released 3HWC catalog. We analyze the morphology and energy spectra of 3HWC J1928+178, 3HWC J1940+237, and 3HWC J1950+242 in more detail and investigate their potential association with nearby sources.

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