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Examining 3HWC J1940+237 Over Time with HAWC SARAH GREBERMAN, MIGUEL MOSTAFA, Pennsylvania State University, HIGH ALTITUDE WATER CHERENKOV OBSERVATORY 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 J1940+237 in more detail and investigate its potential association with nearby sources.

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