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The HAWC gamma-ray observatory: results and prospects

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The High Altitude Water Cherenkov gamma-ray observatory has surveyed on a daily basis the northern sky since its completion more than three years ago. The accumulated exposure provides the deepest TeV gamma-ray observations over a large fraction of the sky. In this contribution we will highlight some of the most recent results on individual sources and the role of the observatory in the global astro-particle physics community. This year, the observatory extended its instrumented area by a factor of four with a sparse array of water-Cherenkov detectors to enhance the sensitivity above ~ 10 TeV. In addition, new analysis techniques have recently been developed to improve low-energy sensitivity and energy resolution. The prospects of these recent developments will be presented.

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