



Latest results from the Juno MWR Instrument

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The Juno Microwave Radiometer (MWR) was designed to investigate Jupiter's neutral atmosphere and synchrotron radiation belts, as one of a suite of instruments on the Juno mission. The MWR's main objective is to investigate the composition and dynamics of Jupiter's deep atmosphere (up to 100 bar). Since August of 2016, MWR has observed Jupiter with 6 different microwave channels (spanning 0.6 to 22 GHz) over a wide range of nadir angles and latitudes, to depths of hundreds of km below the cloud tops, during each perijove pass of Juno's 53-day orbit. As of April 2019, Juno will have completed 18 perijove passes over a wide range of longitudes, in a variety of spacecraft attitudes, revolutionizing our understanding of Jupiter's atmosphere. We will present an overview and update of the MWR results and the conclusions we have reached to date.