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Flares of Solar Cycle 24 Related to Active Regions

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Analyzing our catalog of active-region-related activity events of solar cycle 24, we pay special attention to solar flares. In addition to Geostationary Operational Environmental Satellite (GOES) soft X-ray flare listing data that we investigated to associate solar flares with active regions, we added microwave flare observations by the Badary Broadband Microwave Spectropolarimeter (BBMS). Used spectral microwave parameters are the flux value of spectrum maximum and the frequency of spectral maximum, the presence of the polarization, and it signs, and the frequency of the maximum polarization value. We note that the flare list was limited within the period 2011-2019 and by the daily time range of BBMS observations.

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