

Owens Valley Solar Array (Final Configuration)

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- Five elements (two 27-m antennas plus three 2-m antennas)
- Ten physical baselines from 136 m to 670 m
- 86 different frequencies in the range 1-18 GHz
- Intervals of 10, 20, 50 or 100 msec (selectable)
- Change circular polarization in 500 msec.
- Arbitrary sequencing of frequency/polarization
- Fully calibrated with respect to cosmic sources

Features of Completed Array

- Multiplexed antenna IF on a 20 ms timescale--can change frequency and perform 4 correlation cycles in 100 ms
- Frequency synthesis gives 450 baselines for snapshot imaging, which can be used to trade off frequency resolution with spatial resolution during analysis
- Sensitivity adequate for calibration, active region and flare studies

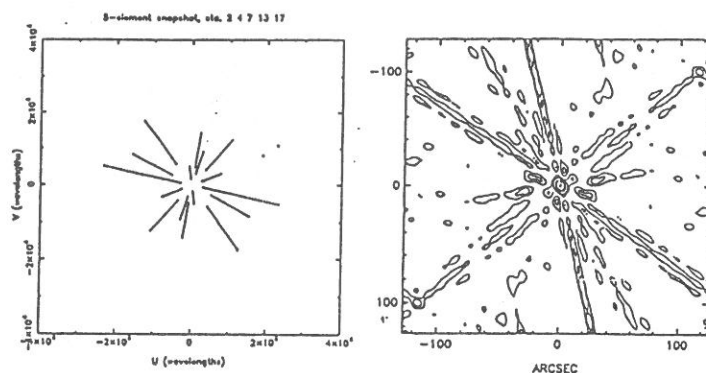
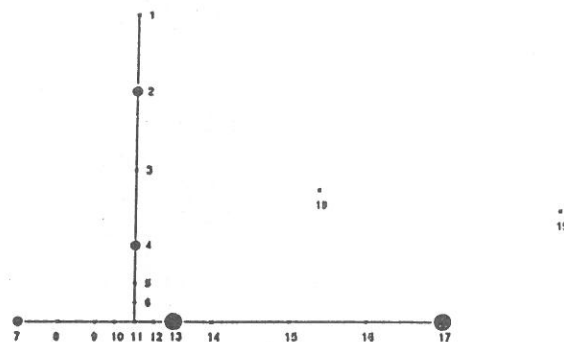
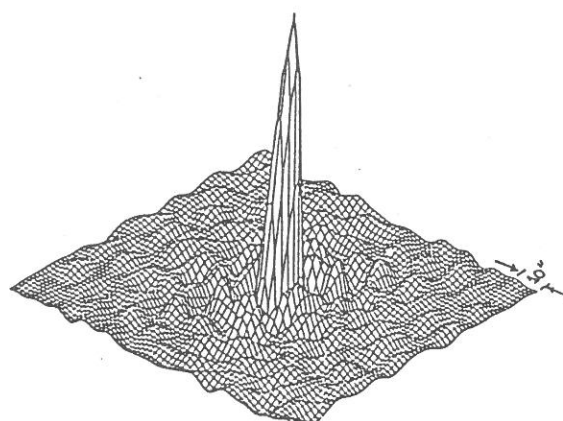
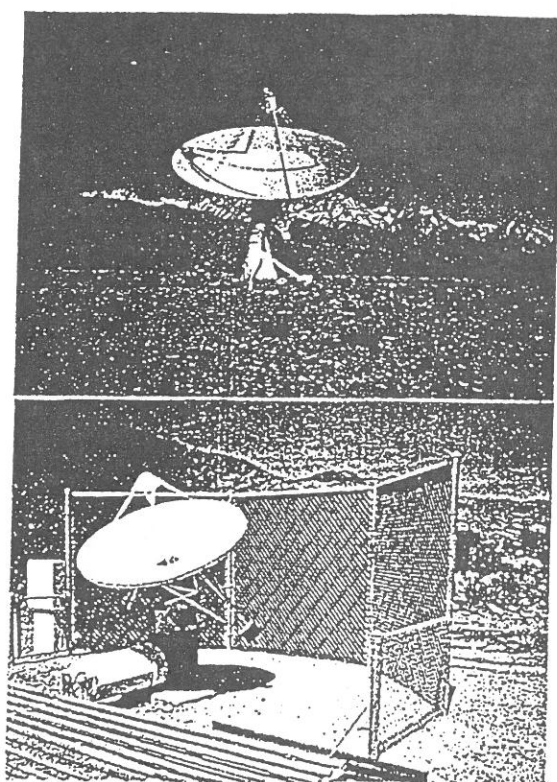


Figure 1



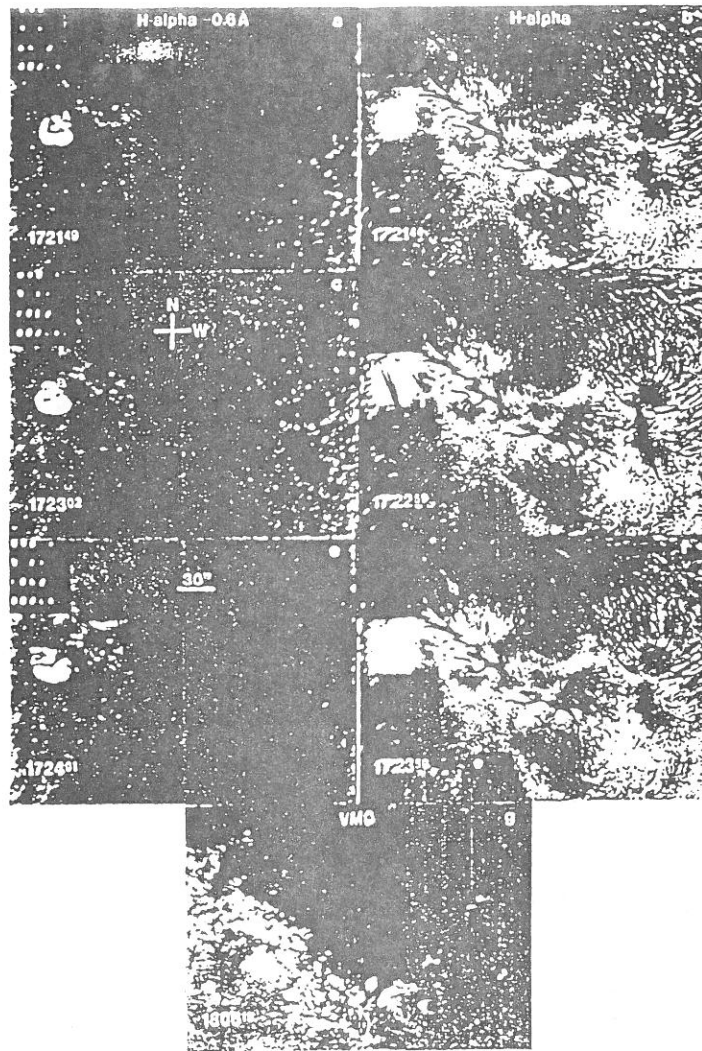
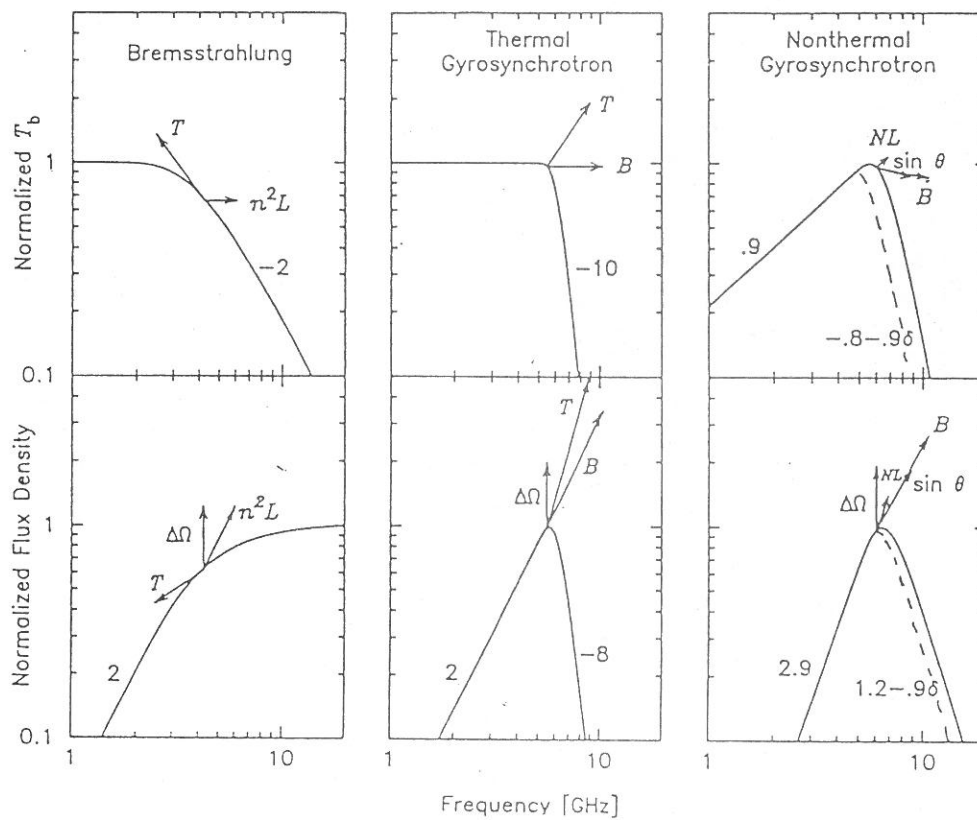


Figure 5

Universal Spectra for Homogeneous Sources



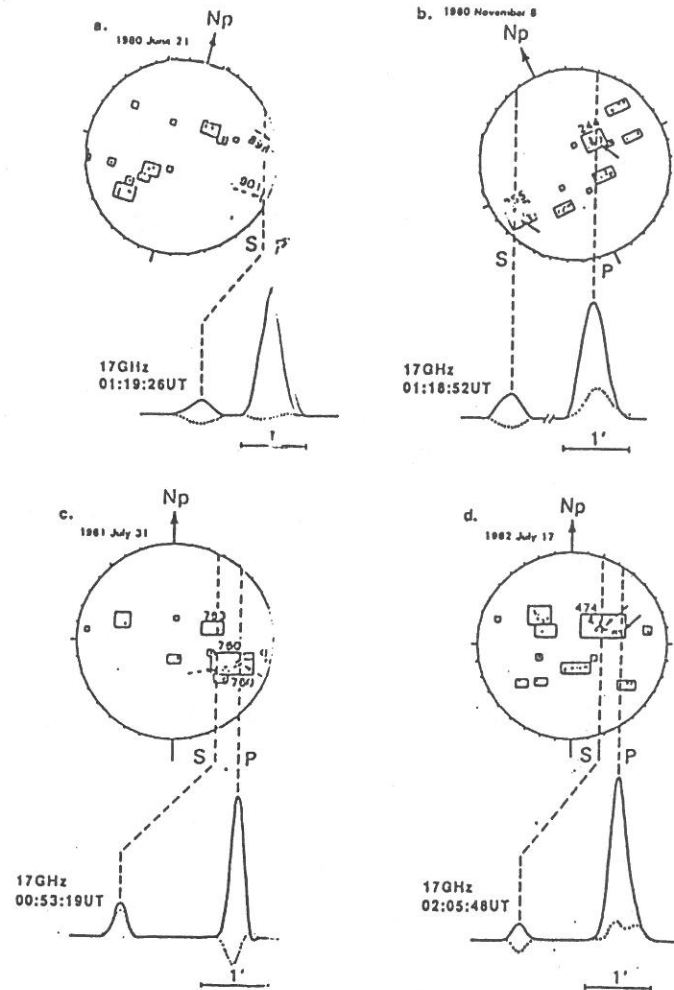


FIG. 1. Combined pictures of east-west brightness distribution (17 GHz) and sunspot sketches from *Solar Geophysical Data* for the four analyzed events. Both the total intensity profile (solid line, $R = 1$) and the polarization profile (dotted line, $R = 1$) are presented. The solid arrows indicate the positions of flares or brightenings. The dashed arrows indicate possible candidates for secondary microwave flares. The lines marked P and S indicate the possible locations of the primary and secondary microwave bursts, respectively.

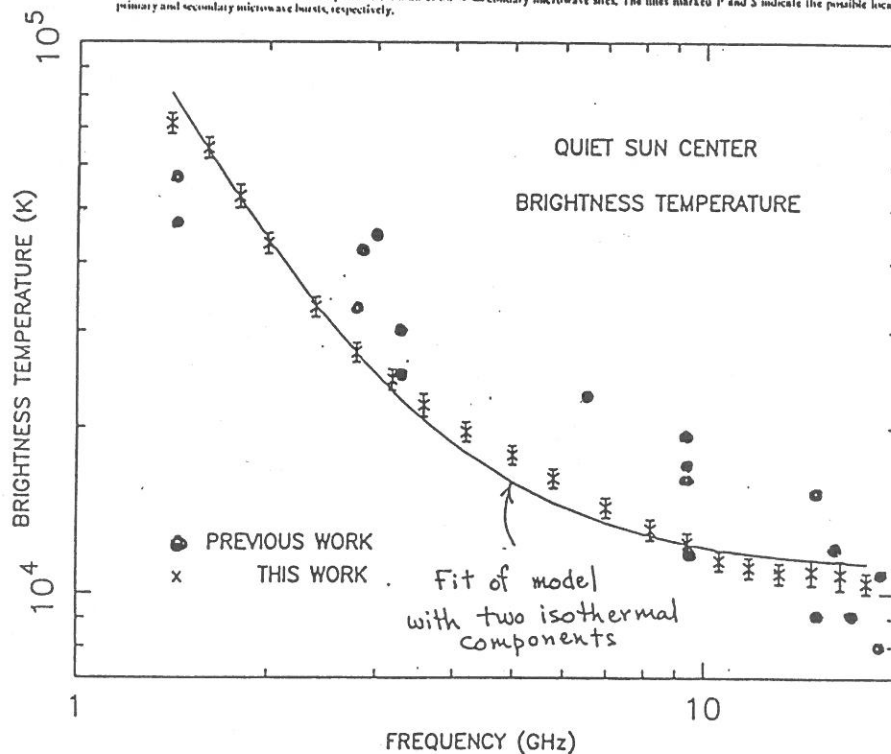


Figure 3