

CONTRIBUTIONS OF RADIOHELIOGRAPH OBSERVATIONS TO THE UNDERSTANDING OF SOLAR FLARES, CORONAL MASS EJECTIONS AND SUN-EARTH CONNECTION

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In this paper, I shall present some aspects of the review by Pick and Vilmer (The Astronomy and Astrophysics Review, Volume 16, n°1-2, October 2008) on the input of 65 years of radio observations to our understanding of solar and solar-terrestrial physics. I shall focus on some examples showing how radio astronomy (and in particular radio images at metric/decimetric wavelengths) contributed from the first discoveries to present days to our knowledge on solar flares, coronal mass ejections, electron beams in the corona and in the interplanetary medium. Some applications to Space Weather studies will be also discussed and I shall conclude on some of the instrumental developments in radioastronomy necessary for the future of solar physics.

Solar activity, Coronal Mass Ejections, Radio Emissions, Solar-Terrestrial Relations