The Astronomical Low Frequency Array (ALFA): Imaging from Space

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The ALFA mission will be the first astronomical observatory to make high resolution radio images at frequencies below the ionospheric cutoff (20 MHz). This multi-satellite interferometer will image solar as well as non-solar phenomena in the frequency range 0.03 - 30 MHz. In this paper, we provide an overview of the ALFA mission, with particular emphasis on solar studies to be undertaken.