

The Infrared Sky Imager: A New Instrument at the ARM Southern Great Plains Site

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The Solmirus Corporation received funding by the U.S. Department of Energy (DE-SC0008650) to develop a diurnal sky cover (SC) data product utilizing the infrared radiometrically-calibrated data from their All Sky Infrared Visible Analyzer (ASIVA) instrument. Nighttime SC has long been a critical programmatic gap in the Atmospheric Radiation Measurement (ARM) Program observational data set and is an important factor in understanding the life cycle of clouds, one of the central themes of the Atmospheric System Research Program. An ASIVA instrument has been purchased to fill this gap and has been in operation at the Southern Great Plains (SGP) site since May of 2014. In this poster we discuss the SC data products (both infrared and visible) that are currently available from this instrument entitled the Infrared Sky Imager (IRSI). We also discuss additional data products developed under the grant and their possible inclusion to the IRSI datastreams.



Figure 1. IRSI installed at ARM SGP in May of 2014