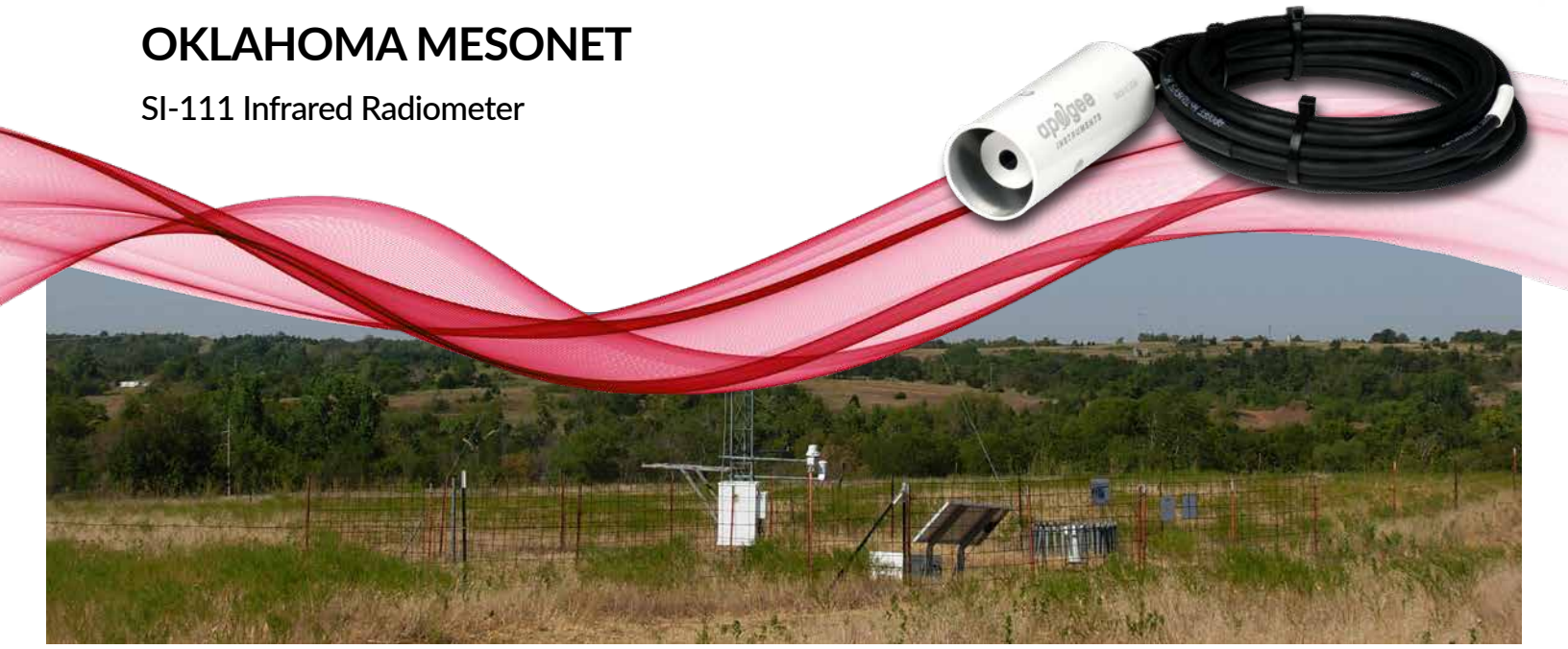
OKLAHOMA MESONET

SI-111 Infrared Radiometer



The Oklahoma Mesonet (www.mesonet.org) operates a network of 115 automated stations covering the state of Oklahoma. The volume and scope of the data generated makes it valuable to many fields.

In 1999, Apogee Infrared Radiometers were installed on 89 of these stations. Three years worth of data were collected and evaluated by Fiebrich et al.

Reference Article

Fiebrich, C. A., J. E. Martinez, J. A. Brotzge, J. B. Basara, 2003. The Oklahoma Mesonet's Skin Temperature Network. Volume 20 (11):1496-1504

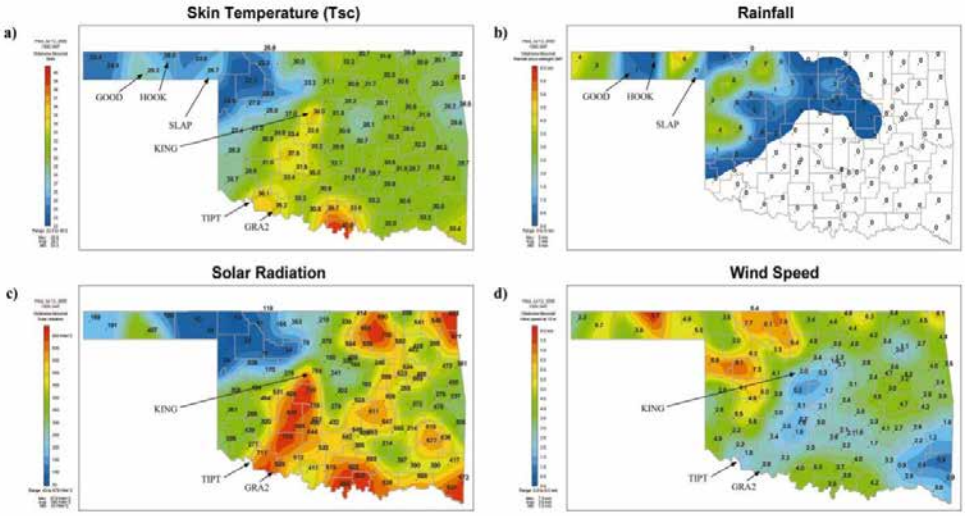


Image: a) Mesonet station plot of the Tsc (°C) field across Oklahoma at 1500 UTC 12 Jul 2000. A large area of low Tsc values is apparent across the Panhandle and northwest Oklahoma. (b) As in (a) except for accumulated rainfall (mm) since 0000 UTC. (c) As in (a) except for solar radiation (W m^{-2}). (d) As in (a) except for wind speed (m s^{-1}).

Application Summary

Summary

Measuring the temperature of the interface between the earth's surface and its atmosphere on automated meteorological networks spaced evenly across Oklahoma.

Apogee Sensors Used

SI-111 Infrared Radiometer

Location

Oklahoma