

SIONS: Sky Imager for the Observation of cloudiNess

Hardware presentation

- Images of the **entire cloud cover** thanks to a hemispherical mirror
- Data acquisition (transmission through GPRS, Wi-Fi, ...)
- Temperature and humidity sensors

An operational method

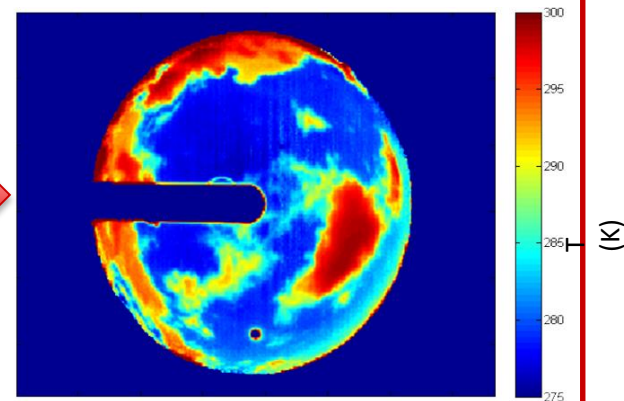
The patented algorithms detection enabled by the SIONS gives a **thorough estimation of the cloud cover**, including **altitude** and **cloud optical thickness**, on the **entire cloud ceiling** with a perfect non-dazzling **circumsolar radiation**.



SIONS prototype settled in Reunion Island (St-Leu).



State of the art sky imager information with dazzling circumsolar radiation



SIONS high performance segmentation

— Reuniwatt —