

All-weather LST extension and VIIRS LST downscaling Shuo Xu Mentors: Yuling Liu

Objectives

- Extend the all-weather land surface temperature (LST) fusion method from the CONUS area to a global scale.
- Investigate the downscaling technique for generating high spatial resolution LST based on VIIRS LST.

Results

(as 2-3 short bullets)

- Acquired global VIIRS and MIRS LST datasets.
- Developed Python script for data preprocessing and data fusion
- Outlined the LST downscaling approach and scaling factors.

