

Hourly, High-Resolution merged Satellite Land Surface Temperature for CHEESEHEAD Domain

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Time of Interest - 2019-06-01 00:00:00 to 2019-10-31 23:00:00

Area of Interest - 45.8, -90.0; 45.8, -90.5; 46.1, -90.5; 46.1, -90.0

Data Frequency - Hourly

Data Spatial Type - geoTIFF

General Dataset Description - Hourly, 50-meter resolution land surface temperature for the 30x30 km CHEESEHEAD domain derived from fusion of NLDAS-2 modeled land surface temperature, GOES-16 geostationary satellite land surface temperature, and ECOSTRESS land surface temperature.

File Names -

lst_YYYYMMDD_v20200803.zip where **YYYY** is year, **MM** is month, **DD** is day of month and **v20200803** is the processing version.

Each .zip file contains 24 files, one per hour: **fuse_YYYY_DOY_HH.tif** where **YYYY** is year, **DOY** is day of year (1 = January 1), **HH** is hour in UTC (00-23).

Data restrictions - Please see the [CHEESEHEAD Data Policy](#).

Digital Object Identifier (DOI) - <https://doi.org/10.26023/5J4W-8XPH-250N>

GCMD Keywords -

- WISCONSIN
- Hourly - < Daily
- 30 meters - < 100 meters
- LAND SURFACE TEMPERATURE
- ISS
- GOES-16

Publications -

Desai, A.R., Khan, A., Zheng, T., Paleri, S., Butterworth, B., Lee, T., Fisher, J.B., Hulley, G., Kleynhans, T., Gerace, A., Townsend, P.A., Stoy, P., Metzger, S., 2021. Multi-sensor approach for high space and time resolution land surface temperature, submitted to Earth and Space Science.