

NOAA/GML Mobile SURFRAD Total Sky Imager (TSI) daytime cloud fraction data products during CHEESEHEAD, ISS Site.

Dataset Author(s): J. Sedlar (joseph.sedlar@noaa.gov); K. Lantz (kathy.o.lantz@noaa.gov); L. Riihimaki (laura.riihimaki@noaa.gov); G. Hodges (gary.hodges@noaa.gov)

Time of Interest: 2019/07/05 18:46:00 UTC to 2019/10/22 15:49:00 UTC

Area of Interest: ISS Site; 45.9449; -90.29365

Data Frequency: 15 sec

Data Spatial Type: point (hemispherical cloud sky cover)

General Dataset Description: Daytime hemispherical cloudy sky cover percentage derived from Total Sky Imager (TSI).

Text file variable definitions:

year: year

month: month

day: day

hour: hour of day (UTC)

minute: minute of day (UTC)

second: second of day (UTC)

doym: decimal day of year (UTC)

utc_off: seconds offset since 1970-01-01 00:00:00 (UTC)

cf_opaq: opaque-determined hemispherical cloud fraction (%)

cf_thin: transparent determined hemispherical cloud fraction (%)

solalt: solar altitude angle above horizon (degrees)

solazi: solar azimuth angle (degrees)

File Names - List names of files transferred.

tsi_cloud_fraction_noaa-gml_che_iss_20190705.txt

tsi_cloud_fraction_noaa-gml_che_iss_20190706.txt

tsi_cloud_fraction_noaa-gml_che_iss_20190707.txt

tsi_cloud_fraction_noaa-gml_che_iss_20190708.txt

tsi_cloud_fraction_noaa-gml_che_iss_20190711.txt

tsi_cloud_fraction_noaa-gml_che_iss_20190712.txt

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tsi_cloud_fraction_noaa-gml_che_iss_20191022.txt

Data restrictions - Please contact author(s). Also see the [CHEESEHEAD Data Policy](#).

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GCMD Keywords - daytime cloud fraction, opaque cloud fraction, thin (transparent) cloud fraction.

Publications (Optional) -

Long, C.N., Sabburg, J.M., Calbo, J. And Pages, D. (2006): Retrieving Cloud Characteristics from Ground-Based Daytime Color All-Sky Images, J. Atmos. Ocean. Tech., 23, 633-652.