Solar Resource Data Base (SRDB) files

SRDB parameters are grouped in HDF files with help of HDF 4.2.8 and compressed with GZIP.

The names of the files are intended to be self-explanatory, with processing version included for quick sorting.

Parameters of the same time scale, covered period, and data format are put in the same file. Exceptions are *MMsrdb_cloud_trends_v1.0.hdf* files, where grouping is based on format and meaning. ATTENTION: these are not usual cloud fractions, see document SRDB_1.0_Parameter_Definitions.pdf. Conventional cloud fractions are packed together with other SRDB parameters.

Each HDF file contains metadata on the file level and on parameter level.

1. File-level metadata:

Title. Dataset description. Period covered. Number of parameters in the file. HDF version. Data type. Processing version. Processing date. Number of latitudes. Number of longitudes. Equation of latitudes (number to degrees North). Equation of longitudes (number to degrees in the range -180 to 180). Gridcell resolution. Gridcell format.

2. Parameter-level metadata:

Parameter name. Valid range. Fill value. Missing value. Units. DATA_MIN = minimal value of parameter data in this file. DATA_MAX = maximal value of parameter data in this file. Data are unscaled.