

Meteorology Division, Dugway Proving Ground SAMS and Mini-SAMS Data

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This file contains information on data provided in SAMS and mini-SAMS data files. International system of units is used, names are mostly self-explanatory. These are the meteorological data from Dugway Proving Ground tower network. Locations of all stations are provided in separate files. Surface Atmospheric Measurement System (SAMS) is a tower collecting wind data at 2 and 10 m above ground level (AGL) and temperature and relative humidity (T/RH) at 2 m AGL. Mini-SAMS are towers similar to SAMS that also include T/RH at 10 m AGL.

SAMS data file:

year(date_time),month(date_time),day(date_time),hour(date_time),minute(date_time),second(date_time), -- time stamp in UTC

"cast(unit_id as unsigned)", -- unit_id is the number/name of the SAMS station

air_temperature_mean,relative_humidity_mean,surface_air_pressure_mean,-- these are values at 2m above ground

wind_speed_10m_mean,wind_from_direction_10m_mean,wind_speed_2m_mean,wind_from_direction_2m_mean -- values at 10 and 2 m above ground as indicated by a name of the variable

Mini-SAMS data file:

year(date_time),month(date_time),day(date_time),hour(date_time),minute(date_time),second(date_time), -- time stamp in UTC

"cast(unit_id as unsigned)", -- unit_id is the number/name of the mini-SAMS station

air_temperature_10m_mean,relative_humidity_10m_mean,wind_speed_10m_mean,wind_from_direction_10m_mean,surface_air_pressure_mean,air_temperature_2m_mean,relative_humidity_2m_mean,wind_speed_2m_mean,wind_from_direction_2m_mean -- values at 10 and 2 m above ground as indicated by a variable name