

## ARM Program Data Quality Office

The Atmospheric Radiation Measurement (ARM) User Facility Data Quality Office was formed in July 2000 at CIMMS to characterize the quality of ARM measurements. The goal of the data quality program is to minimize the time required to address instrument problems in order to provide the best-possible measurements for scientific research. The Data Quality Office is recognized as the independent arbiter of data quality for the entire program, and its staff works with ARM's instrument mentors, site operators, and data system personnel to achieve its mission. Data Quality Office staff and student analysts review all data collected by the program and communicate quality findings to data users so that they may make informed decisions when using the data. The office also develops and maintains the tools to assess the quality of the data, including the Data Quality Explorer and DQ-Zoom interactive plotter, shown here. The three sources of data quality information for ARM data are: (1) embedded quality control flags within data files; (2) data quality reports that are merged with data files when they are obtained; and (3) web-available instrument handbooks.

### ARM Data Quality Explorer » Metrics

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sgpmetE13.b1 v4.39.0 : 10.30.2018 - 000000		Hours (hr)																							
Assessment Toggling		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
atmos_pressure	↕																								
logger_temp	↕																								
logger_volt	↕																								
prg_precip_rate_mean	↕																								
pwd_cumul_rain	↕																								
pwd_cumul_snow	↕																								
pwd_err_code	↕																								
pwd_mean_vis_10min	↕																								
pwd_mean_vis_1min	↕																								
pwd_precip_rate_mean_1min	↕																								
pwd_pw_code_15min	↕																								
pwd_pw_code_1hr	↕																								
pwd_pw_code_inst	↕																								
rh_mean	↕																								
tbrg_precip_total	↕																								
tbrg_precip_total_corr	↕																								
temp_mean	↕																								
vapor_pressure_mean	↕																								
wdir_vec_mean	↕																								
wspd_arith_mean	↕																								
wspd_vec_mean	↕																								

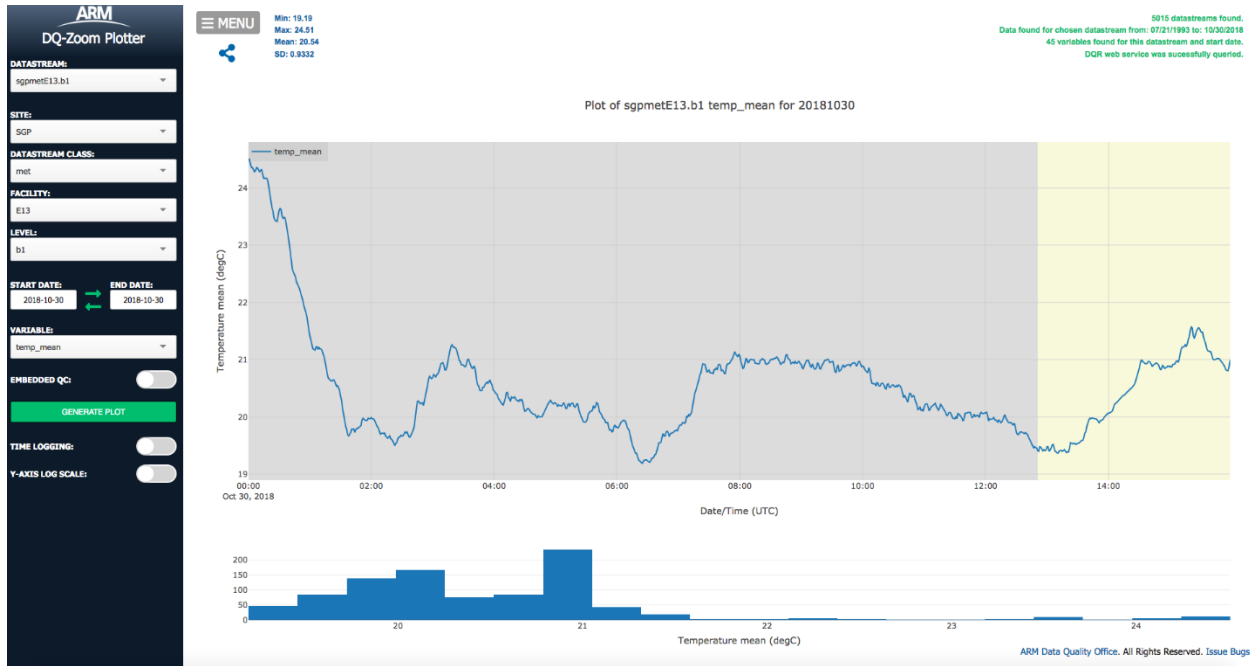
Diagnostic Plots +

DQA Report

DQ Wiki

NCVweb Plot

CM Logs



For further information please contact Dr. Randy Pepler ([rpepler@ou.edu](mailto:rpepler@ou.edu))

### Team Members

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