

PERiLS_2022 ASOS 1- Minute Data Set

Author:

National Centers for Environmental Information

1.0 Data Set Description

This dataset contains one minute resolution surface meteorological data from the Automated Surface Observing System (ASOS) network of ~860 stations (Fig. 1) in the contiguous United States. These data were collected and archived by the National Centers for Environmental Information (NCEI; formerly the National Climatic Data Center).

Data Version: 1.0

Release Date: 7 June 2022

Data Status: Final

Time period: March and April 2022

Location: Contiguous United States

Data Frequency: One minute

Data source: National Centers for Environmental Information

Data set restrictions: None

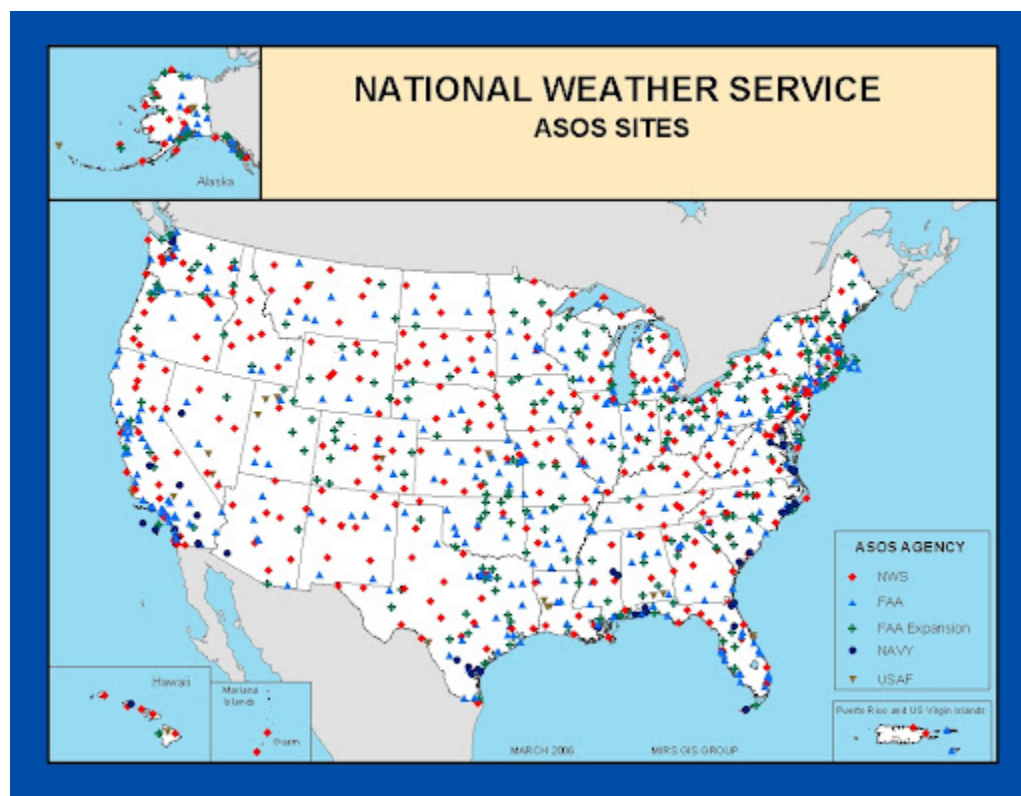


Figure 1. ASOS locations only those in the contiguous US are included in this dataset.

2.0 Instrument Description

ASOS instrumentation is described in the ASOS User's Guide document included with this dataset.

3.0 Data Collection and Processing

ASOS data collection and processing is described in the ASOS User's Guide document included with this dataset.

4.0 Data Format

The ASOS data are in two formats, "Page 1" and "Page 2". Page 1 files contain visibility and wind data and Page 2 files contain precipitation, pressure, temperature, and dew point data.

The data are in monthly tar files by data type. The tar files contain monthly data by ASOS station. The station file naming convention is:

64050KWST201803.dat

6405 represents the "Page" (6405 for Page 1 and 6406 for Page 2)

KWST is the call sign for the station

201803 is the four digit year and two digit month

The file format for the "Page 1" or 6405 files can be found in the td6405.pdf file that is included with this data set.

The file format for the "Page 2" or 6406 files can be found in the td6406.pdf file that is included with this data set.

5.0 Data Remarks

These are the real time data from the ASOS stations retrieved by NCEI and no additional quality control has been performed beyond that done by the the ASOS software.

6.0 References

NCDC, 2006: DATA DOCUMENTATION FOR DATA SET 6405 (DSI-6405).

NCDC, 2006: DATA DOCUMENTATION FOR DATA SET 6406 (DSI-6406).

NOAA, 1998: ASOS User's Guide. Retrieved from <https://www.weather.gov/media/asos/aum-toc.pdf> on 8 December 2021.

NOAA, 1998: ASOS User's Guide Appendices. Retrieved from <https://www.weather.gov/media/asos/appen.pdf> on 8 December 2021.