

PERiLS_2022 ASOS 5- Minute Data Set

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1.0 Data Set Description

This dataset contains five 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: Five minute

Data source: National Centers for Environmental Information

Data set restrictions: None

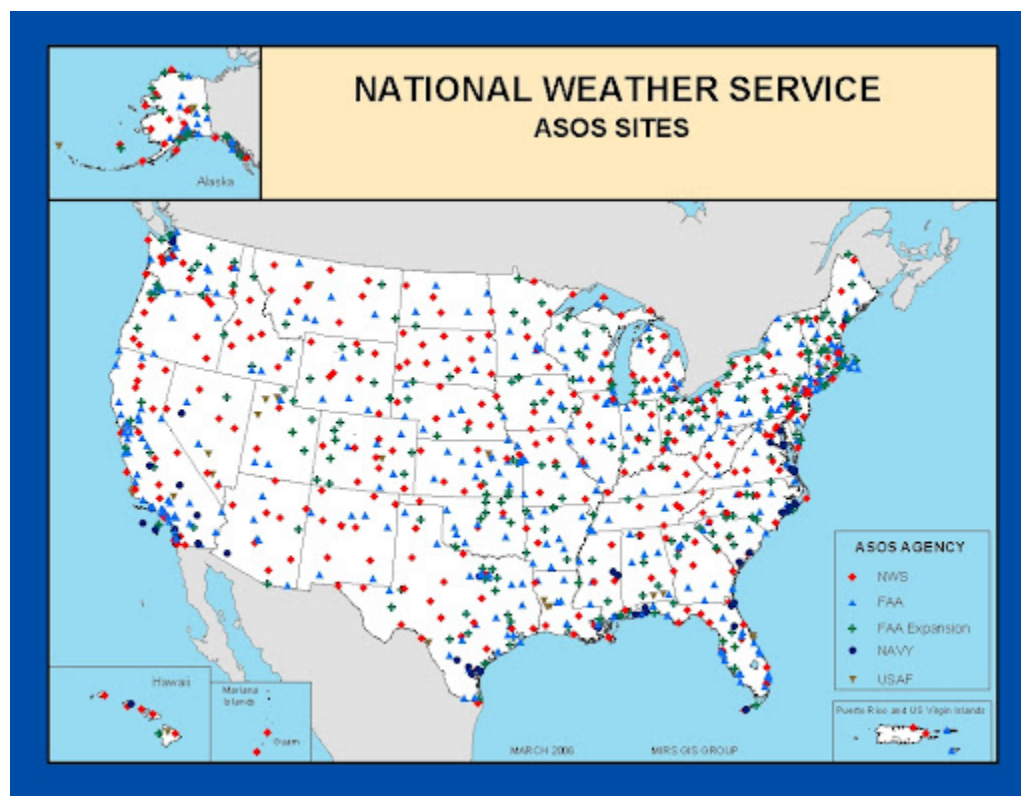


Figure 1. ASOS locations; only those in the contiguous US are included in this dataset.

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 five minute data are in the ASCII "6405" format.

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:

64010KWST201803.dat
6401 represents five minute data
KWST is the call sign for the station
201803 is the four digit year and two digit month

The file format for is described in the td6401b.pdf file included with this dataset.

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, 2003: DATA DOCUMENTATION FOR DATA SET 6401b (DSI-6401b).

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.