

# ASOS 5- Minute Data Set

## Author:

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## 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 United States and a few locations around the world primarily at US military bases. 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: 6 October 2022 (and updated monthly)

Data Status: Final

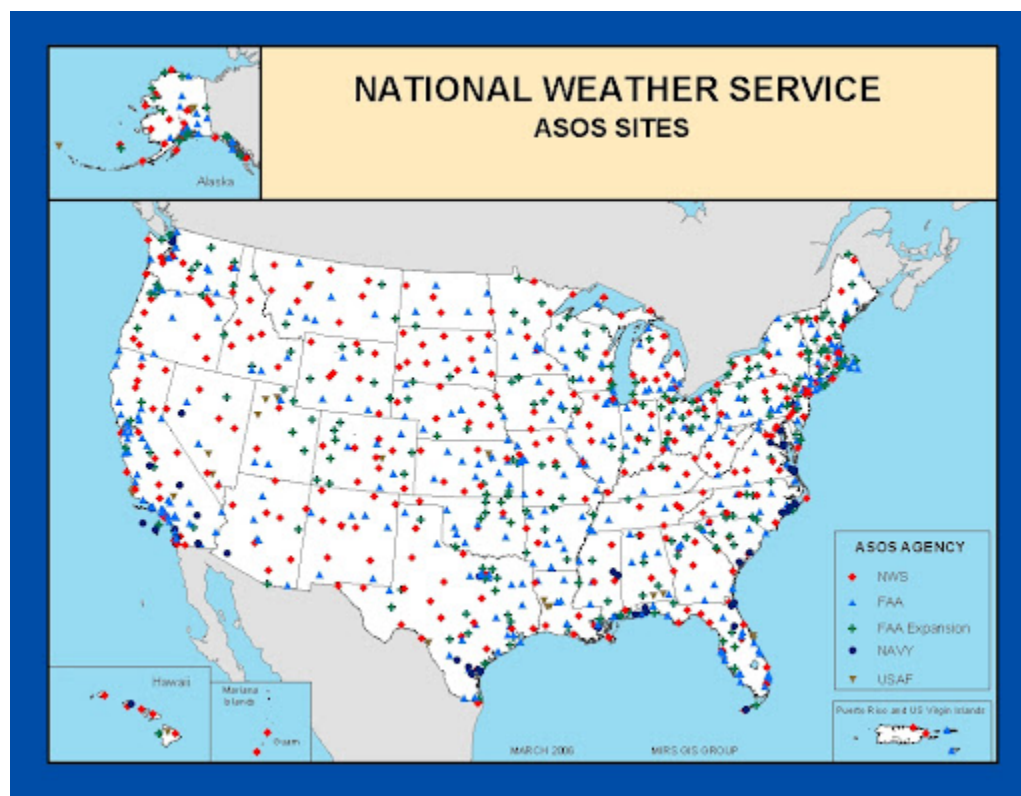
Time period: January 2022 to most recent month

Location: United States and scattered locations around the world

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:

asos-5min-KAAT-202209.dat

KAAT is the call sign for the station and 202209 is the four digit year and two digit month

The file format for is described in the asos-5min\_documentation.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 ASOS software.

## **6.0 References**

NCDC, 2022: DATA DOCUMENTATION FOR DATA SET 6401b (DSI-6401b). Retrieved from <https://www.ncei.noaa.gov/data/automated-surface-observing-system-five-minute/doc/> on 6 October 2022.

NOAA, 1998: ASOS User's Guide. Retrieved from <https://www.ncei.noaa.gov/data/automated-surface-observing-system-one-minute-pg1/doc/> on 6 October 2022.

NOAA, 1998: ASOS User's Guide Appendices. Retrieved from <https://www.ncei.noaa.gov/data/automated-surface-observing-system-one-minute-pg1/doc/> on 6 October 2022.