



Synoptic.



WORLD
METEOROLOGICAL
ORGANIZATION

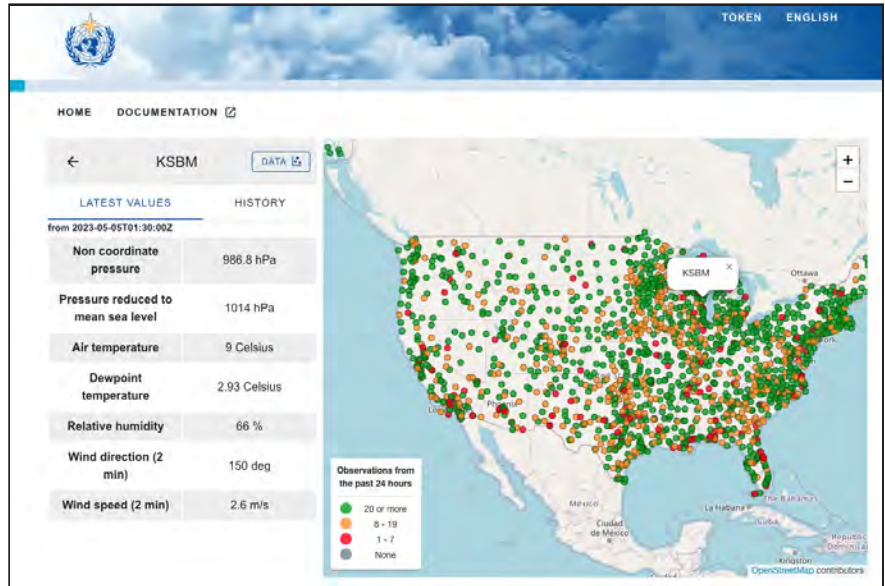
WIS 2.0 BOX Services

WIS 2.0 is the new Information System for the World Meteorological Organization (WMO) designed to easily share global weather data. It supports the WMO Unified Data policy, the Global Basic Observing Network (GBON), and makes international, national, regional, and local data sharing simple, effective, and inexpensive.

In 2022, in the spirit of public-private-academic partnership, Synoptic became the first company to partner with the WMO to become

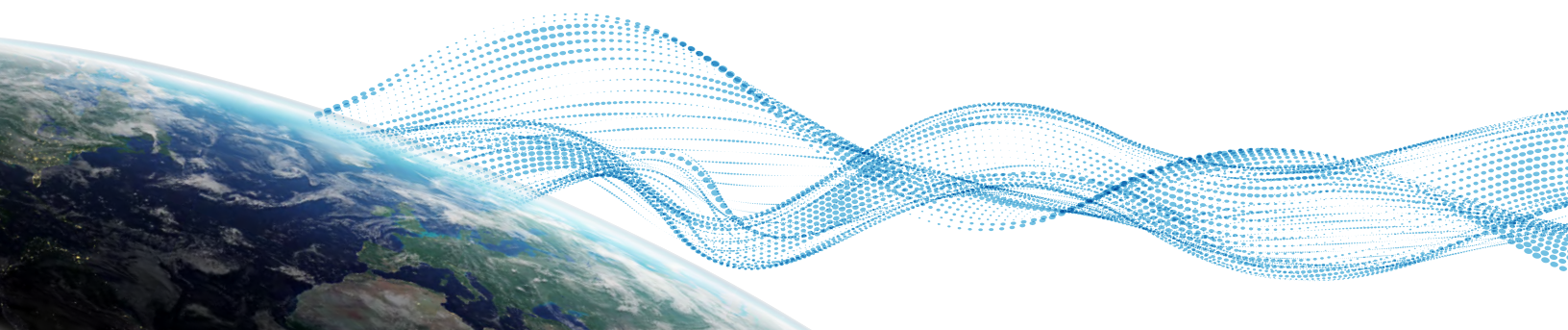
a Global Implementation Partner for WIS 2.0. As a pivotal partner for this innovative service, Synoptic is implementing and maintaining a WIS 2.0 Box as well as WIS2.0 Box as a Service in the cloud and becoming a global cache. Synoptic has taken a lead role with User Interface (UI) development working closely with WMO developers to streamline how national meteorological and hydrological services (NMHSs) agencies publish their data to WIS 2.0.

Synoptic has already made available more than 2500+ stations in WIS 2.0 from the National Weather Service's (NWS) Automated Surface and Automated Weather Observing System, which is the largest ingest of data on the WIS 2.0 platform to date.



Who is Synoptic?

Synoptic is a Public Benefit Corporation (PBC) with a mission to expand access to environmental data to enhance public safety, improve the productivity of government agencies and commercial entities, and assist in research and educational initiatives to advance the understanding of Earth systems. Synoptic has extensive experience with Public-Private-Academic partnerships and manages the National Oceanic and Atmospheric Administration's (NOAA) National Mesonet Program (NMP).



What will Synoptic Offer?

Synoptic has aggregated surface-based weather observation in a high performing, secure cloud environment for over 20 years. With the successful implementation of a WIS 2.0 box, Synoptic is well-positioned and eager to assist you in your WIS 2.0 implementation. From a dedicated team of experts with more than 50 years of combined experience in the meteorology, software, and cloud computing sectors and early adopters/developers of the WIS 2.0 software, you can be guaranteed a swift and knowledgeable response to any questions or issues that may arise during and after implementation.

Synoptic can offer three options:

1. WIS 2.0 Box (Design, Build, Train and Transfer)
2. WIS 2.0 Box as a Service (Design, Build, Train, Operate, and Maintain)
3. Consulting/Advising

WIS 2.0 Box

- Design, build, train, and transfer WIS 2.0 Box to member Country
- Configure box and associated components
- Data ingest & validation setup
- Publication/subscription verification
- Testing
- Publish data to WIS 2.0
- Documentation
- Training on implementation & architecture
- Provide on-going virtual support by email within 72 business hours

WIS 2.0 Box as a Service

- Support for your WIS 2.0 implementation
- Design, build, train, operate, and maintain your WIS 2.0 Box
- Ongoing monitoring and maintenance
- Troubleshooting station data/network availability
- Optimization of your WIS 2.0 implementation
- Identity & access controls (IAMS)
- Historical data access
- Data backup & unlimited archive
- Access to published Core data from other networks
- Customized training & education
- Easy data exchange/sharing with Member Countries
- Access Control - Core or Recommended data to Member Countries or other entities as desired

Consulting/Advising

Synoptic employees are experts in atmospheric science and data engineering. We are able to provide guidance and consulting on the following topics:

- Weather stations, data logging, metadata
- Data quality and data availability
- Usage and interpretation of data
- Engineering for high volume, low latency weather data/observations
- Architecture and infrastructure best practices
- Ongoing performance tuning

