SuomiNet - Support Overview

Note - content is provided for historical continuity and may be out of date. The UNAVCO SuomiNet pages are not actively maintained, and up-to-date SuomiNet information should be obtained from UCAR's COSMIC program at: www.cosmic.ucar.edu/suominet.html

SuomiNet is an international network of GPS receivers, configured and managed to generate near real-time estimates of precipitable water vapor in the atmosphere, total electron content in the ionosphere, and other meteorological and geodetic information.
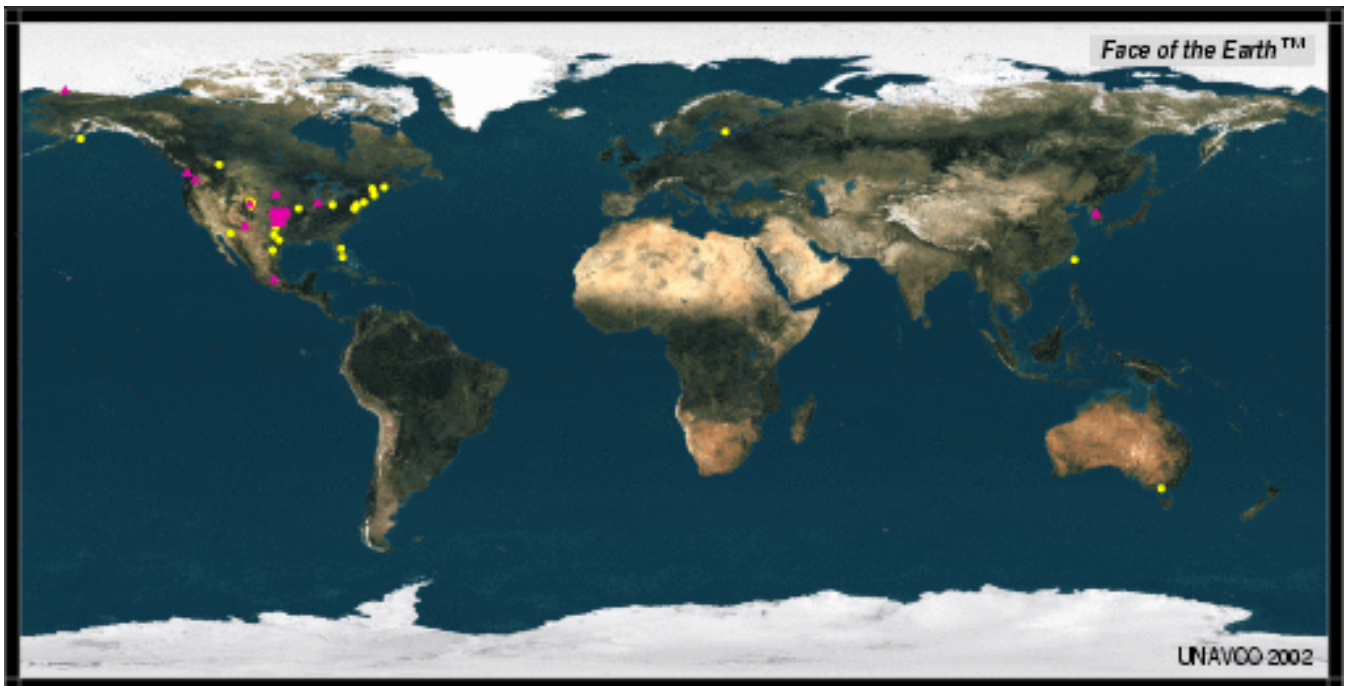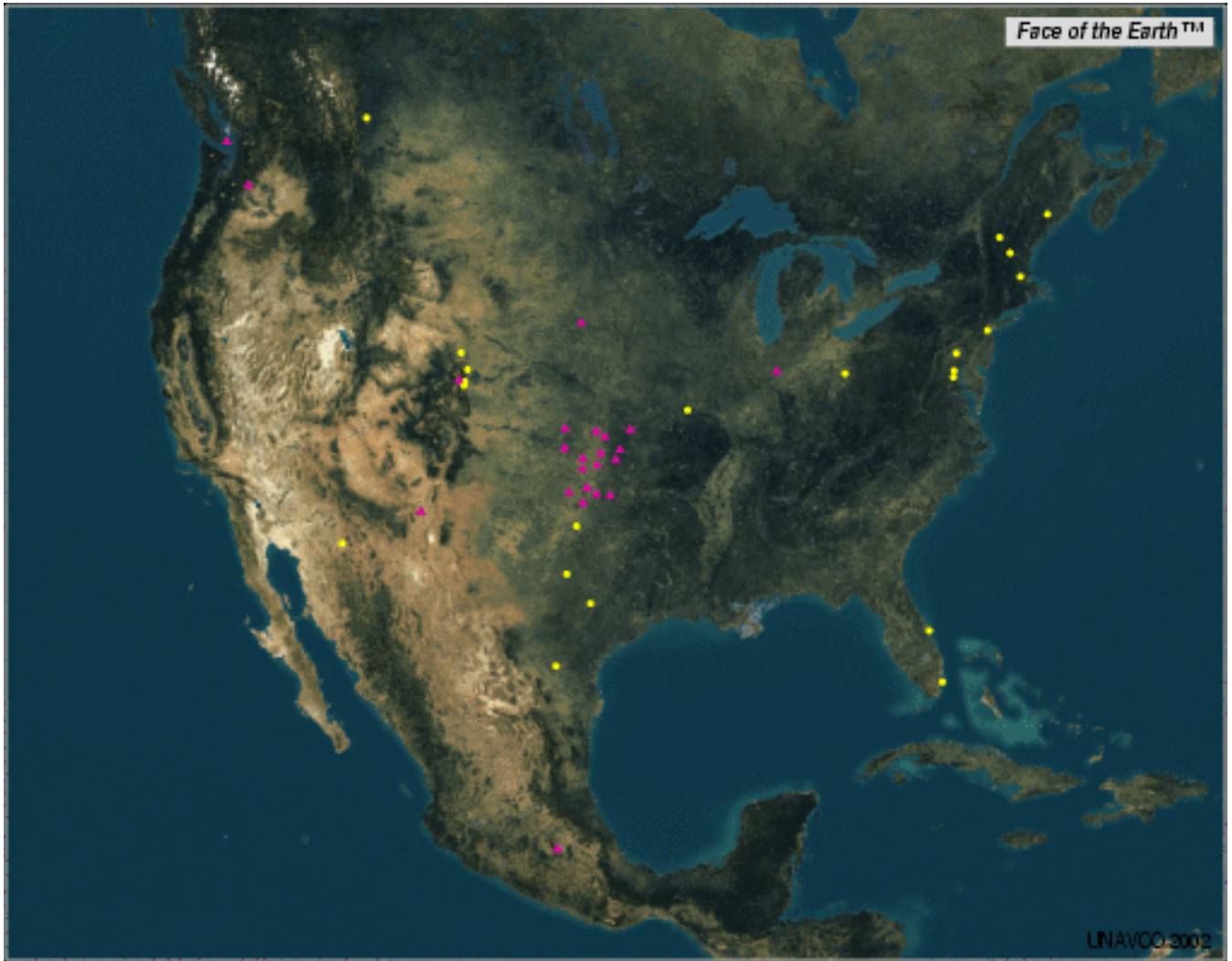
Geodetic+Atmospheric Sites   **Atmospheric Only Sites**

Click on image to see real-time precipitable water vapor (PW) image.

SuomiNet Participation Procedure

NOTE: All SuomiNet systems have been allocated. There are no longer any systems available for new participants.

- [How to Proceed](#)

- [Site List](#)

SuomiNet Site Installation Instructions

- [Connect the GPS Receiver and Computer Using These Instructions](#)

- Installation questions? Contact UNAVCO (support^{unavco.org}).

- Notify the UCAR SuomiNet Data Analyst Teresa VanHove (vanhove@ucar.edu) when the system is connected and on-line. Include the computer IP address.

How to Access SuomiNet Data

- Geodetic data can be accessed via FTP from the [UNAVCO Data Archive](#), as daily RINEX files.

- SuomiNet participants can access their site data, and data from other SuomiNet sites by subscribing to the LDM service from UCAR. A separate computer is required to run LDM, since the SuomiNet computer **is for data collection only**.

  1. Install LDM on your local computer. See the [Unidata LDM Support Page](#).

  2. Notify the UCAR SuomiNet Data Analyst Teresa VanHove (vanhove@ucar.edu) when your computer is set up to receive SuomiNet data. Include the computer IP address.

  3. Configure the "pqact.conf" file on your local machine.

- Participants may also directly access data from their own site via LDM. A separate computer is still required to run LDM, since the SuomiNet computer **is for data collection only**.

  1. Install LDM on your local computer. See the [Unidata LDM Support Page](#).

  2. Change the "ldmd.conf" file on your local SuomiNet computer to allow data access from the local computer.

  3. Configure the "pqact.conf" file on your local machine.

  E-mail support questions to Unidata Support (support@unidata.ucar.edu).

SuomiNet Equipment Information

- [Configurations](#)

- [GPS Receiver](#)

- [GPS Antenna](#)

- [GPS Antenna Cable](#)

- [GPS Antenna Monument](#)

- [Meteorological Package Specifications](), [Configuration](), and [Purchase]()

- [System Computer]()

- [SuomiNet Network Rules]()

- [University Cost-Share Equipment]()

Additional SuomiNet Information

- [GST/SuomiNet Page]()

- [GPS Receiver and Antenna Testing Report for SuomiNet]()

- [Trimble SuomiNet Press Release]()

- UNAVCO Submission to American Meteorological Society (AMS) [UNAVCO Support for SuomiNet, a GPS Network for Atmospheric Sensing]()

- [SuomiNet Efforts in the US Southern Great Plains]()

- [GPS Sensed Small Scale Water Vapor Variability in the Southern Great Plains]()

- [Impact of GPS-Based Water Vapor Fields on Mesoscale Model Forecasts]()

For more information regarding SuomiNet procedures, system components and network installation, contact UNAVCO (support

unavco.org).

Online URL: https://kb.unavco.org/article/suominet-support-overview-595.html