

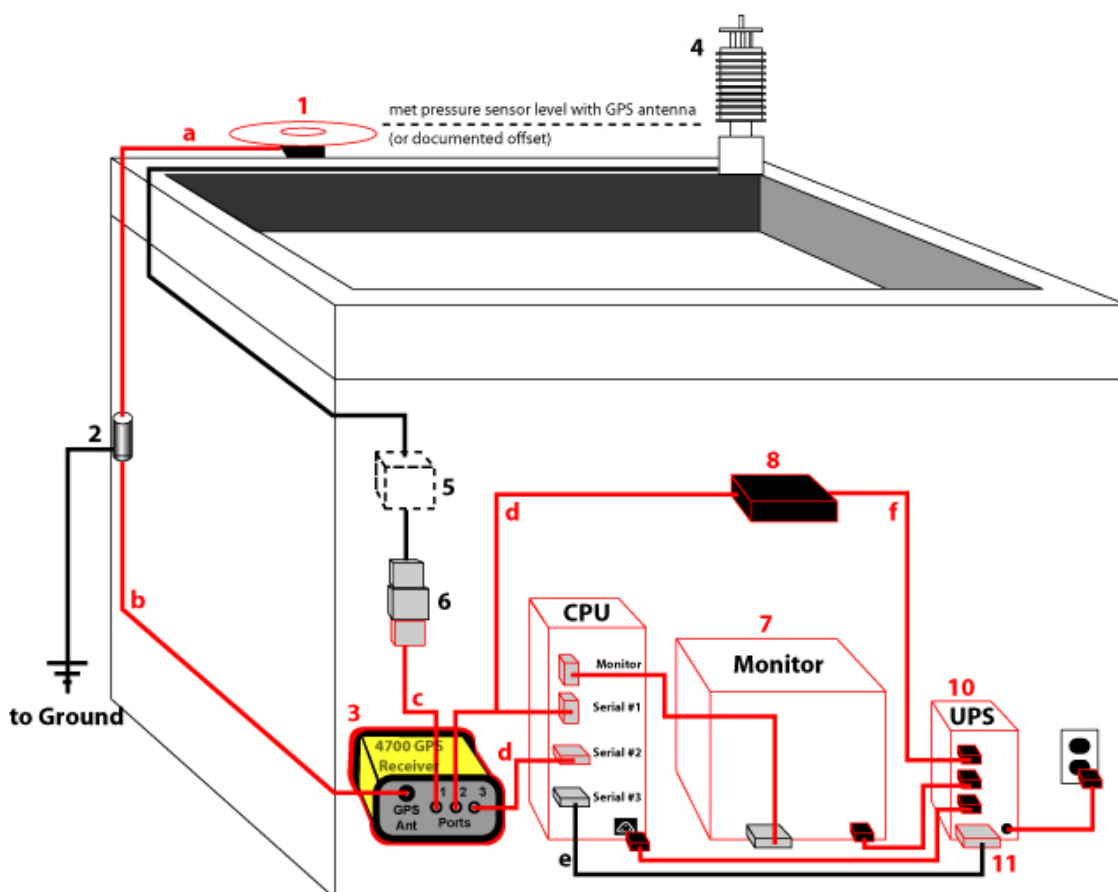
SuomiNet - Site Configurations

593 Beth Bartel December 30, 2009 [SuomiNet](#) 2314

Note - content is provided for historical continuity and may be out of date.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

- Configuration 1 - Standard atmospheric (and geodetic) site

All components are typically in the same building, but the GPS antenna may be mounted on a separate monument to improve stability and/or sky visibility. [Right-click on the diagram below and select "View Image" for a larger version.]



[See components key under Configuration 3, below.]

- Configuration 2 - Atmospheric AND geodetic site

Same as Configuration 1, except using an IGS chokering antenna, SCIGN antenna mount, and a SCIGN Tall radome. These are supported on a LIMITED basis. Contact Bjorn Johns

(bjorn

unavco.org) at UNAVCO for more information.



- Configuration 3 - Standard atmospheric or atmospheric/geodetic site with a radio modem link

Like Configuration 1, except with a radio modem link for the serial connection between the GPS receiver and the computer. In this configuration, only one serial link is used.

Configuration 3 Components:

1. [Trimble Microcentered geodetic GPS antenna](#)
2. Grounded [lightning protector](#)
3. [Trimble 4700 GPS receiver](#)
4. [Meteorological package](#) sensor
5. [Meteorological package](#) body (Vaisala only)
6. [Serial surge protector](#)
7. [System computer](#)
8. [Trimble power supply p/n 30413](#)
9. [Wireless radio](#)
10. [Backup power supply](#)
11. [Gen power connector](#)

Cables:

- a. [GPS antenna cable](#) - N male to N male, RG-214
- b. [GPS antenna cable](#) - N male to 1-shell Lemo Coaxial P male, RG-214
- c. [GPS to meteorological package cable](#) - 0-shell Lemo male to DB9 male
- d. [Serial/power cable p/n 32345](#) - 7 p Lemo to DB9
- e. Serial cable - DB9 male to DB9 female
- f. [Power cable](#)
- g. DB9 null modem adapter
- h. DB9 male-male adapter

• Configuration 4 - Atmospheric/geodetic site with a radio modem link

Like Configuration 2, except with a radio modem link for the serial connection between the GPS receiver and the computer. In this configuration, only one serial link is used.



Online URL: <https://kb.unavco.org/article/suominet-site-configurations-593.html>