UNAVCO Resources: Communications Options

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UNAVCO has worked with and supports the following communications options for GPS and meteorological data transmission. Click on the photograph of the hardware for more information, including specifications, how-tos, and configuration examples. UNAVCO will work with individual groups to help determine the most effective communications option for each remote site or network.

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prodects!	Cellular Modems	Cellular modems work anywhere adequate cell service, and do not of-sight to another modem. Cost hardware and ongoing cellular se modems are currently used in the Boundary Observatory (Western BARGEN (CA, NV, UT), and N Peninsula (Costa Rica) networks.
Intuicon Control of the Control of t	Radio Modems	Radio modems require line-of-sign proximity, directly or via a repear master radio modem connected of remotely to a download compute modems can support either serial protocol, depending on make and is no ongoing service fee as there with many of the other communi options, making radio modems in networks or sub-networks with sivisibility. Links can be effective depending on foliage, atmosphere topography. Either serial or ether modems are currently in use in the Boundary Observatory (Western Negra (Galapagos), BARGEN (Cand Peatland Bogs (MN) networks tes CHPI (Brazil), TANZ (Tanz BOGT (Colombia).
NAL Research Corporation Model: ASUA-SA NOT USER'S REFUCE ABLE THE PROPERTY OF	Satellite Communications	Satellite communications options and Iridium modems can work as worldwide; no line-of-site between required. Because of high ongoin other options are generally chose with cellular or internet availability

		satellite communications allow defrom remote sites in sparsely or usereas. VSAT modems are current Plate Boundary Observatory (We and Puerto Rico networks; Iridius currently used in the POLENET (Antarctica and Greenland).
15 DESCRIPTION OF THE PARTY OF	<u>Wireless</u>	Cisco Aironet Wireless Bridge.
	Analog (Dial-up) Modems	Analog (dial-up) modems work versions is available. These modems as useful for sites with direct phone master download sites. Because the generally faster options, analog in decreasingly used but still transfer many sites established in the past Analog modems are currently in BARGEN network (CA, NV, UT).
111111	Short-haul Modems	
	Serial to Ethernet	Serial to ethernet devices are type interface older, serial-based recent Trimble 4000) with an ethernet of They are also used to connect serial to ethernet devices are curthe BARGEN (CA, NV, UT) and Bogs (MN) networks and at IGS (India).

Online URL: https://kb.unavco.org/article/unavco-resources-communications-options-430.html