

UNAVCO Resources: Permanent GNSS Station Enclosures

381 Beth Bartel August 24, 2016 [Equipment Enclosures](#) 3391

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UNAVCO has installed and supports a large variety of equipment enclosures for both AC and DC GNSS sites, from enclosures specifically designed for solar systems (the SunWize battery enclosure) to simple storage containers modified to accommodate cable pass-throughs. We can work to find the most suitable enclosure given the budget and the location of each permanent or semi-permanent GNSS installation. Below is a list of enclosures used within the last several years in UNAVCO-supported projects; click on the photographs to see sample content lists and more photos of actual installations. For standard UNAVCO campaign enclosures, check out [UNAVCO Campaign GNSS Systems](#) .

	SunWize Premium F-Series Battery Enclosure	The SunWize Premium F-Series battery enclosure is a white, rectangular metal box with a hinged door. It is mounted on a post in a desert landscape. A solar panel is mounted on a stand next to the enclosure. The enclosure has a small display screen and several ports on the side.
	Hardigg Case	Hardigg (now owned by Thermo Fisher Scientific) makes rugged, white, rectangular plastic cases. These cases are designed to be stacked and are impact-resistant. They have a ribbed exterior and a sturdy base. A solar panel and various cables are connected to the case.
	JOBOX	JOBOX chests, made by JOBOX Industries, Inc. , are heavy-duty metal enclosures. They are available in various sizes and colors. These cases are designed for long-term storage and are suitable for outdoor use.



EarthScope-sponsored network. Chests are heavy and ideal for shipping over long distances (here is approximately February 2009).



[Pelican Case \(large\)](#)

The [Pelican](#) case is used to transport equipment in a weatherproof. They are deployed in the Grande network with batteries in addition. The case is difficult to open without padlocks. Cost is approximately \$250-\$300 (February 2009). They are available (see below) for networks with yes/no questions where large batteries are required.



[Pelican Case \(small\)](#)

Like the larger case, the smaller Pelican case can be used to transport equipment. It is ideal if space requirements are small (e.g. in a yes/no question). It is common to use padlocks. Networks using these cases include ALE and the Galapagos. Cost is approximately \$150.



[Commercial Electrical Enclosure](#)

Electrical boxes are made 'locally,' in major cities and shipped. Boxes are used for passing cables through walls. The box shown is often sturdy, made of metal, and may be painted. Networks utilizing these boxes include Calabria. The price range is approximately \$100-\$200.



Storage Container

A heavy-duty storage container made by [Contico](#). Tuff Boxes are designed to withstand rough handling in a truck or other outdoor environment. They are an equipment enclosure designed for low cost (about \$100-\$200 each). The case shown here, as of February 2018, is available in US cities, ruggedized for outdoor use. The case shown here is used to store AmphiR batteries and communications equipment. It is a standard enclosure in the Unavco GNSS station network.

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