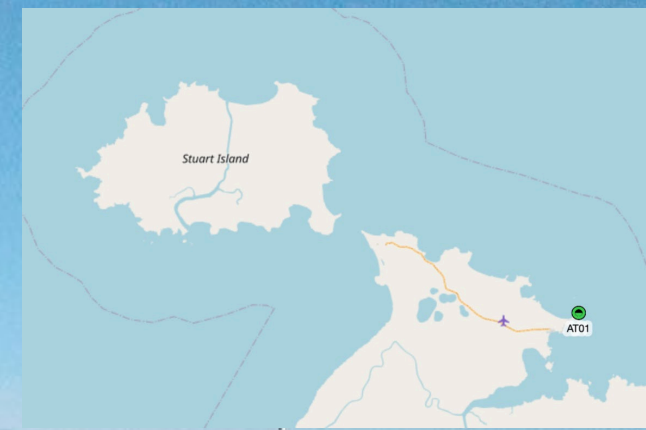


AT01 (NOTA) – St. Michael, AK
Lat: 63.48400: Long: -162.00639
Station Install Date: 2018/05/26



Site Selection

Thomas Nylén - DTU Space - Denmark

Existing Sites - Recommendations

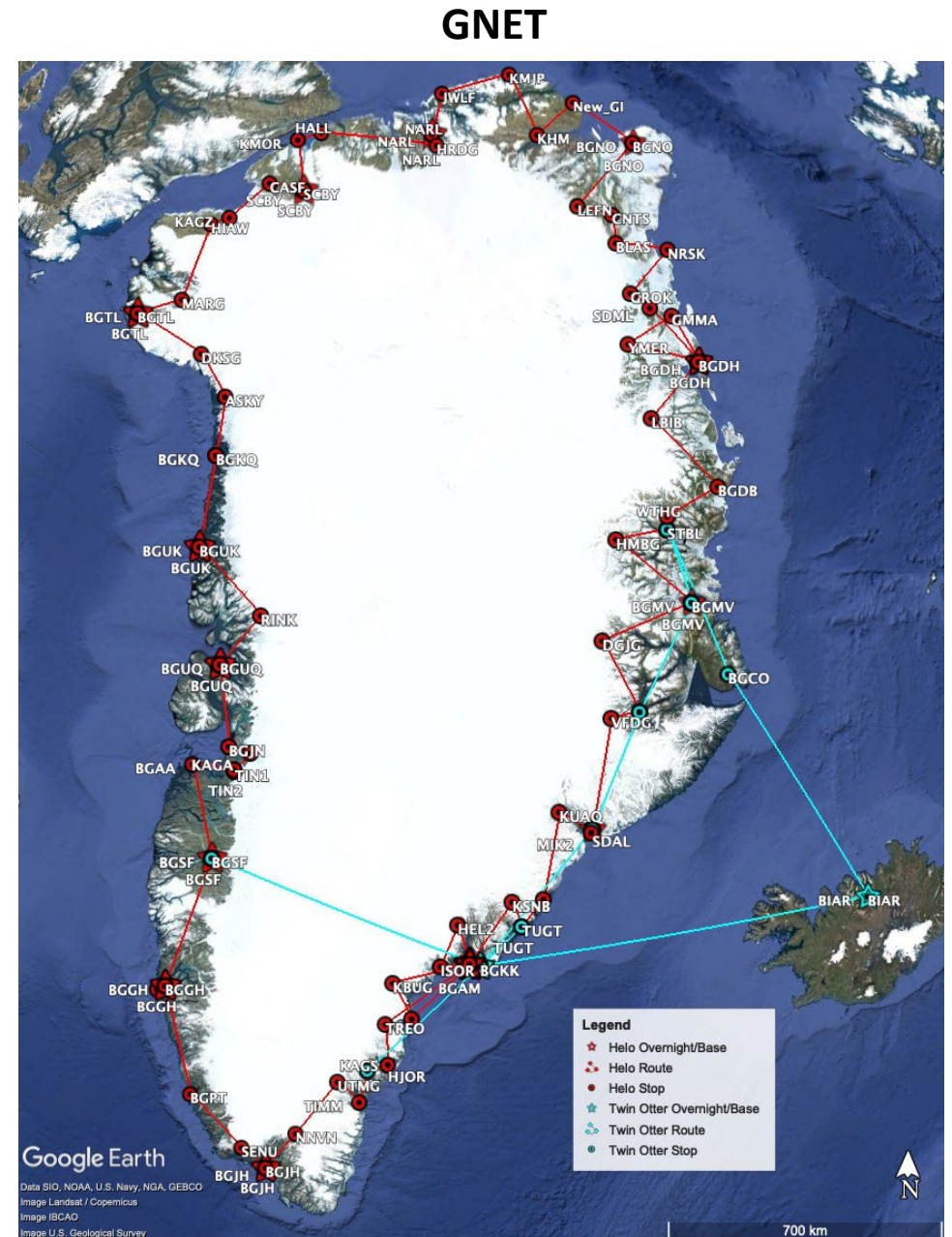
Track All Signals/SVs

0 Elevation Mask + 1hz

Save Raw and RINEX3 data

Site Installation

- 1. Purpose:** Primary, secondary etc
- 2. Location:** ex. Greenland
- 3. Duration:** months, years etc
- 4. Communications:** LTE, Iridium etc
- 5. Resources:** Budget for install and O&M, People, Infrastructure etc
- 6. Possible Problems:** Interference, Obstruction, Animals etc
- 7. Site Selection**
- 8. Planning:** Permits, Shipping, Logistics etc
- 9. Preparation + Testing**
- 10. Installation**



4 GNSS-IR Tide and 0 GNSS-IR Snow sites



GNSS-IR Reflection Zone Mapping

Station: plpk

Latitude: 66.89772663

Longitude: -34.03345885

Ellipsoidal Height(m): 122.232

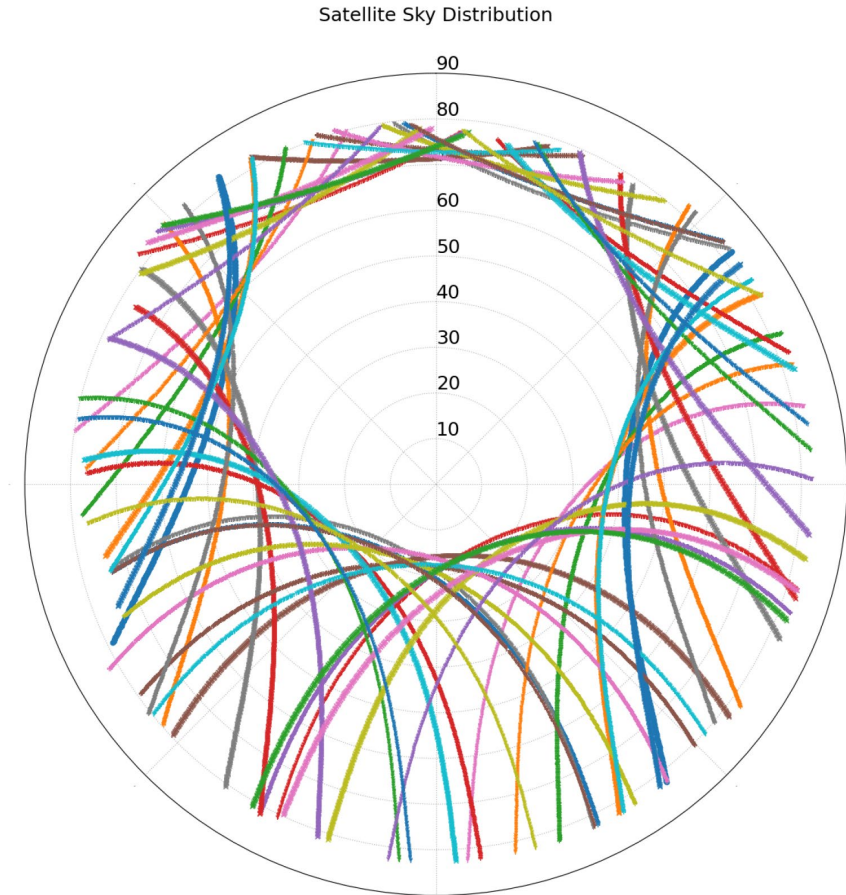
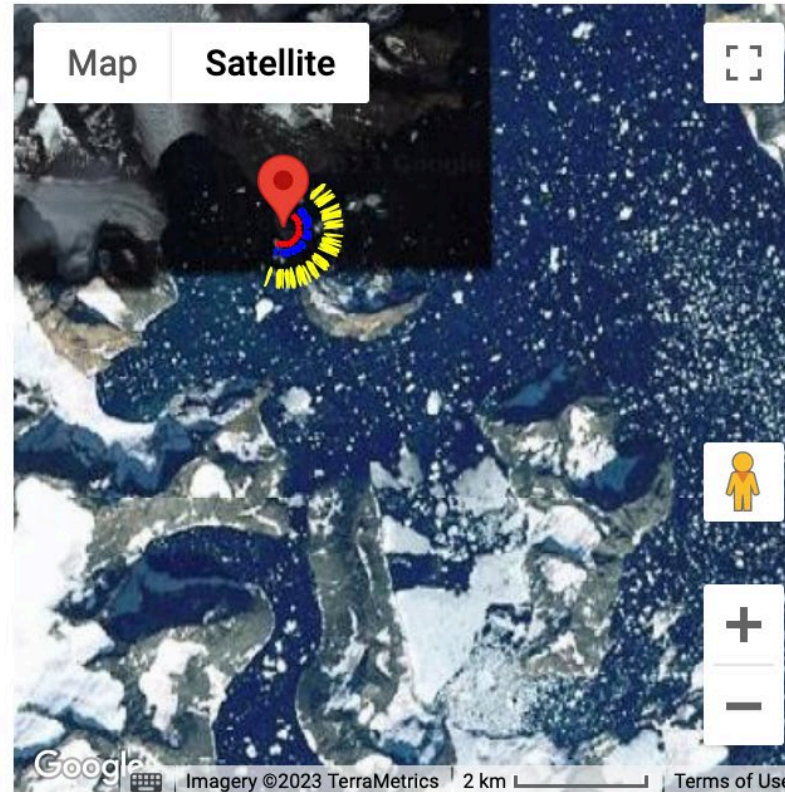
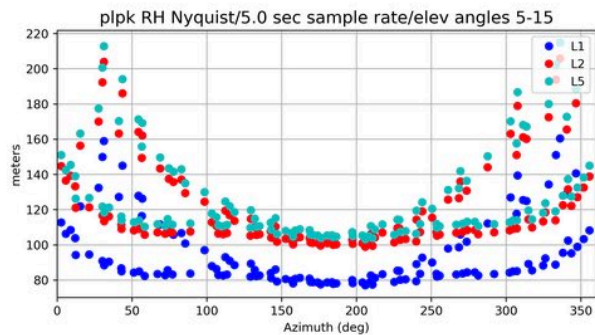
Reflection Ht. (m) : 65.532

Elevation Angles (deg) : 5,10,15

Azimuth Angles (deg) : 40 to 200

Constellation : GPS

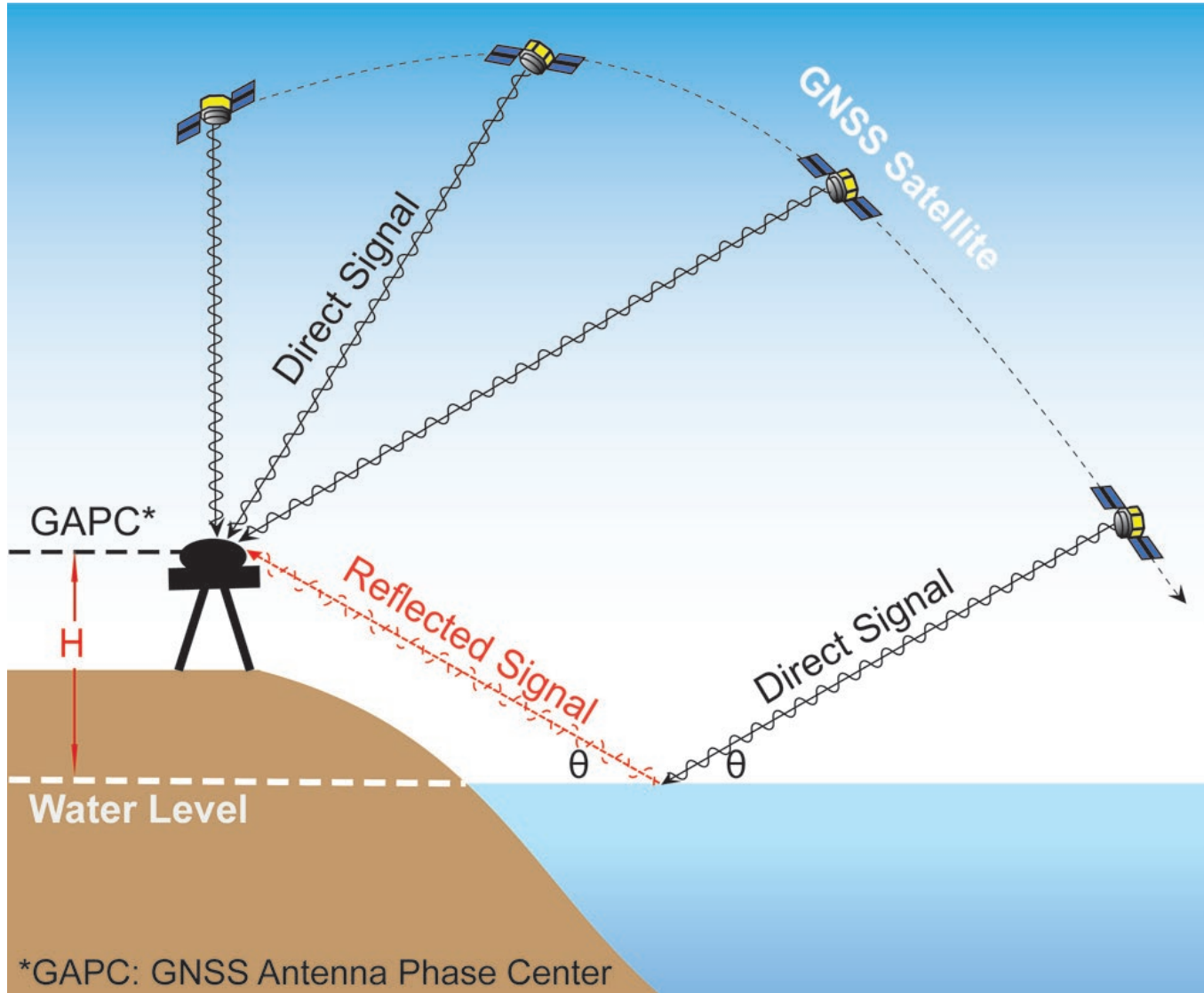
Frequency: L1







Monumentation































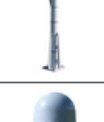































Temporary



Permanent



	Type	Stability*	Cost**	Install Time	Labor	Substrate	Site Impact
	Deep drilled braced (permanent)	 high	 \$7,500-15,000	 2-4 d	 3-4	BR, U	 high
	Shallow drilled braced (permanent)	 high	 \$900+	 1-3 d	 2-3	BR	 med
	Shallow braced (non-drilled) (permanent)	 med-high	 \$800	 1 d	 2-3	U	 med
	Concrete pillar (permanent)	 med	 \$500-2,000	 1-3 d	 2-3	BR, U	 med
	Thermopile (permanent)	 med-high	 \$6,700-16,000	 1-4 d	 1	U	 high
	Polar mast (permanent, long-term, campaign)	 med-high	 \$500	 1 hr	 1	BR	 low
	Shallow foundation mast (permanent)	 med-high	 \$150	 1-2 d	 1	BR	 low
	Stainless steel pin w/ mast (permanent, long-term, campaign)	 med-high	 \$190	 1 hr	 1	BR, R	 low
	5/8" all-thread (permanent, long-term, campaign)	 med-high	 \$80	 1 hr	 1	BR, R	 low
	Tech 2000 (campaign)	 low	 \$600	 < 1-2 hr	 1	BR	 low



[Home](#) > [Products](#) > [Antennas](#) > [VP6150 VeraPhase® Full GNSS Antenna](#)



VP6150 VeraPhase® Full GNSS Antenna

Antennas

Coverage

GPS L1/L2/L5, GLONASS G1/G2/G3, Galileo E1/E5a /E5b/E6, BeiDou B1/B2/B2a/B3, QZSS L6, NavIC L5

Mount

Standard
Survey Mount

Amplifier Gain

50 dB typ.

Connector Options

TNC Female
N-Type
Female

[Back to Antennas](#)

Overview

The VP6150 VeraPhase® antenna employs Tallysman's unique [VeraPhase®](#) technology covering the full GNSS spectrum: GPS/QZSS L1/L2/L5, GLONASS G1/G2/G3, Galileo E1/E5a /E5b/E6, BeiDou B1/B2/B2a/B3, QZSS L6, NavIC L5, as well as SBAS (WAAS/EGNOS /GAGAN/MSAS).

Features

- Low axial ratios from horizon to horizon
- Very Tight Phase Center Variation (<1mm)
- Low current: 45 mA
- Invariant performance from: +2.7 to 24 VDC
- Space in housing for integrated PPP, RTK

Benefits

- Consistent performance across all frequencies
- Broadest tracking elevation (0° – 180°)
- Extreme precision
- Excellent multipath rejection
- IP67, REACH, and RoHS compliant
- Reduced time to market

[Datasheet](#)

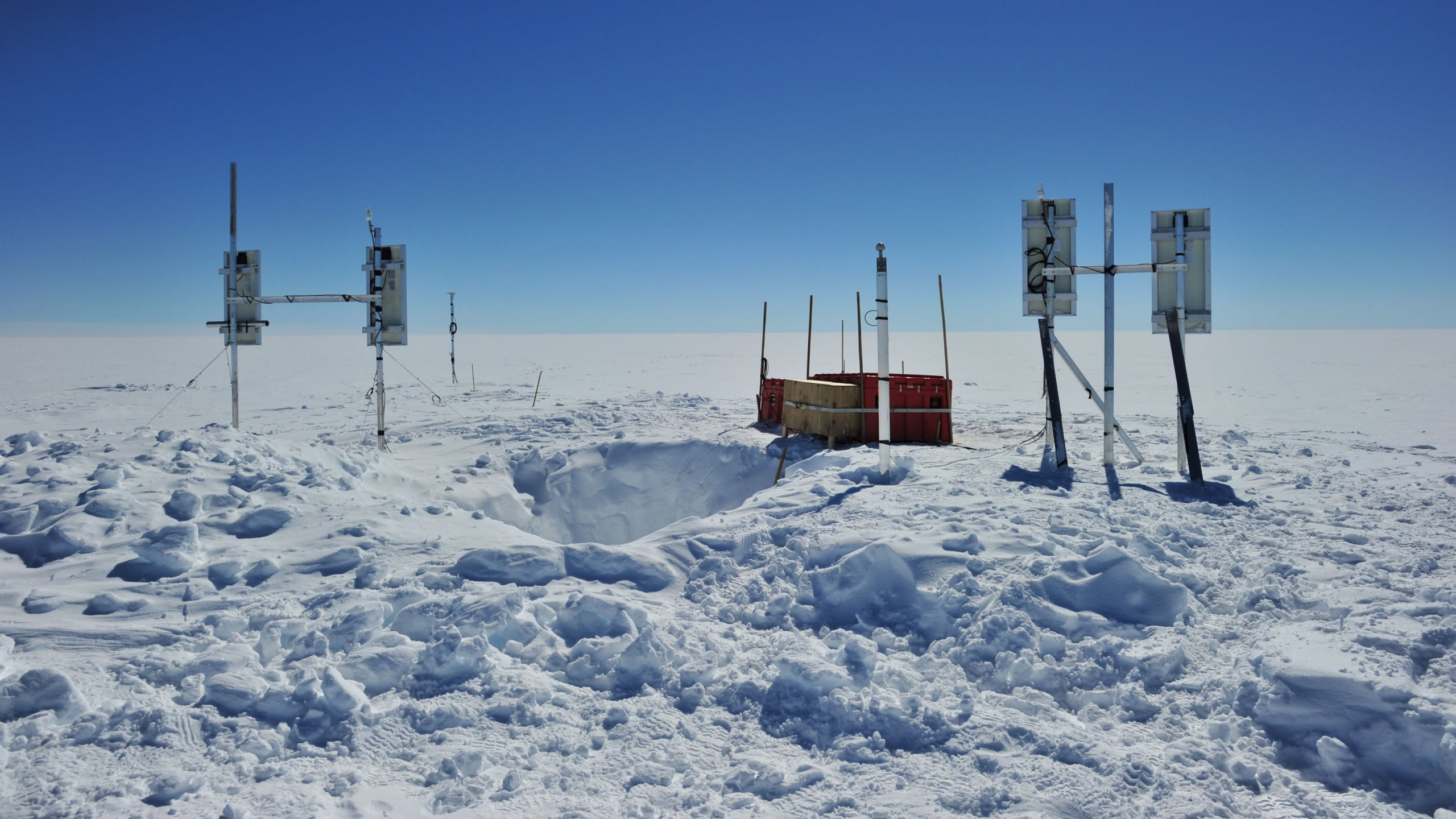
[Where to Buy this Product?](#)

[Need assistance with VP6150 VeraPhase® Full GNSS Antenna?](#)

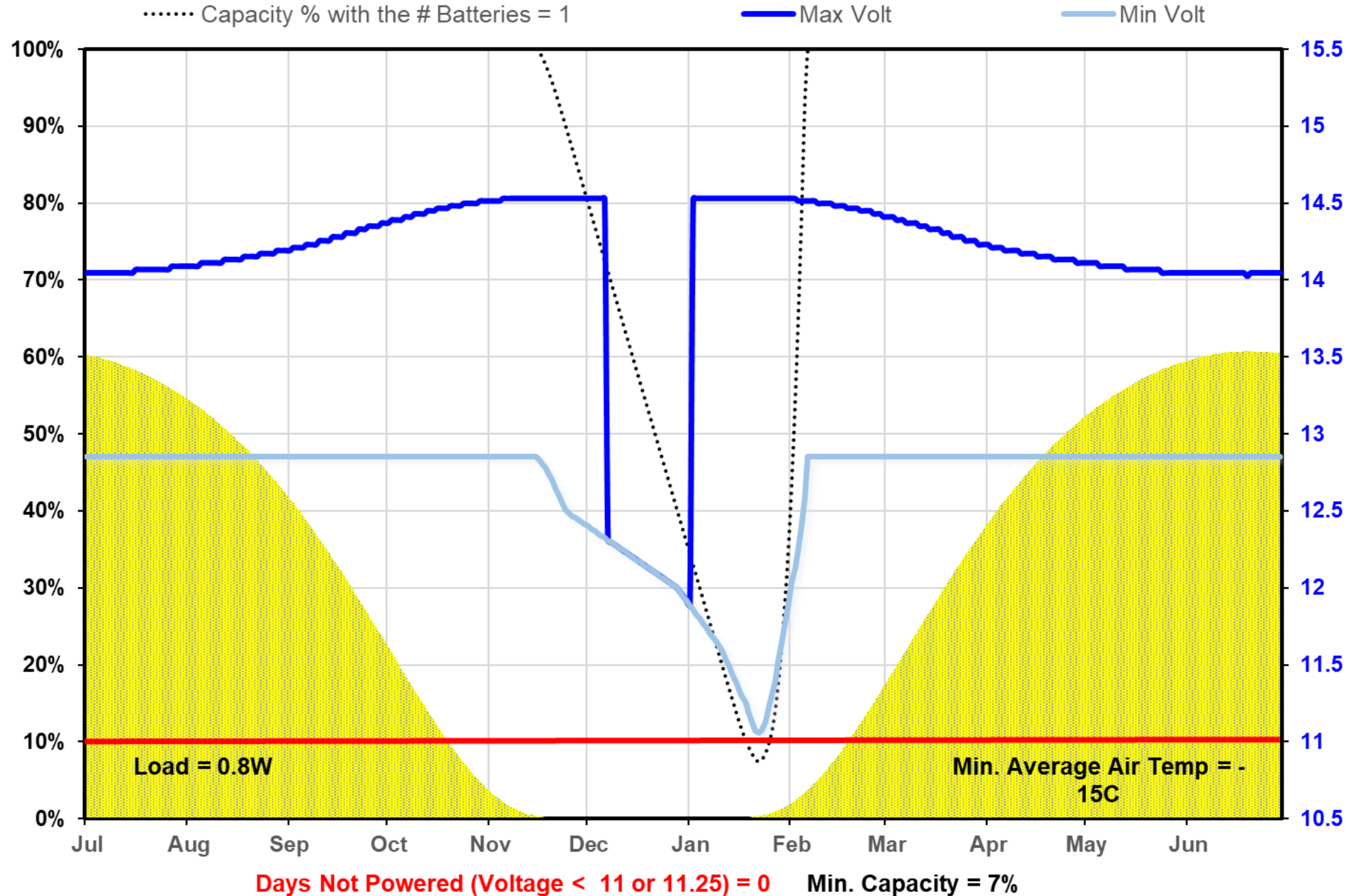
Need a Guide?

If you're just starting the process of selecting the right antenna for your project, our Antenna Selection Guide can help narrow down your options.

[Antenna Selection Guide](#)



GLS1 - Battery Banks Capacity [%] and Voltage @ Latitude 66°North



New GNSS-IR Tide Gauge in Nuuk, Greenland





GNSS-IR Reflection Zone Mapping

Station:

Latitude: 64.171165

Longitude: -51.720297

Ellipsoidal Height(m): 50.8

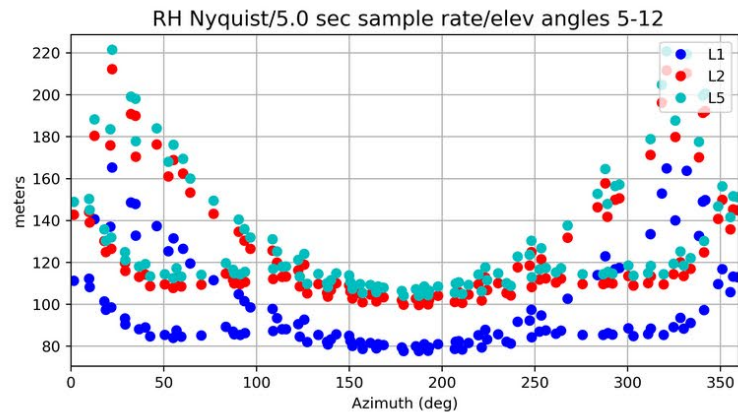
Reflection Ht. (m) : 22.64

Elevation Angles (deg) : 5,7,10,12

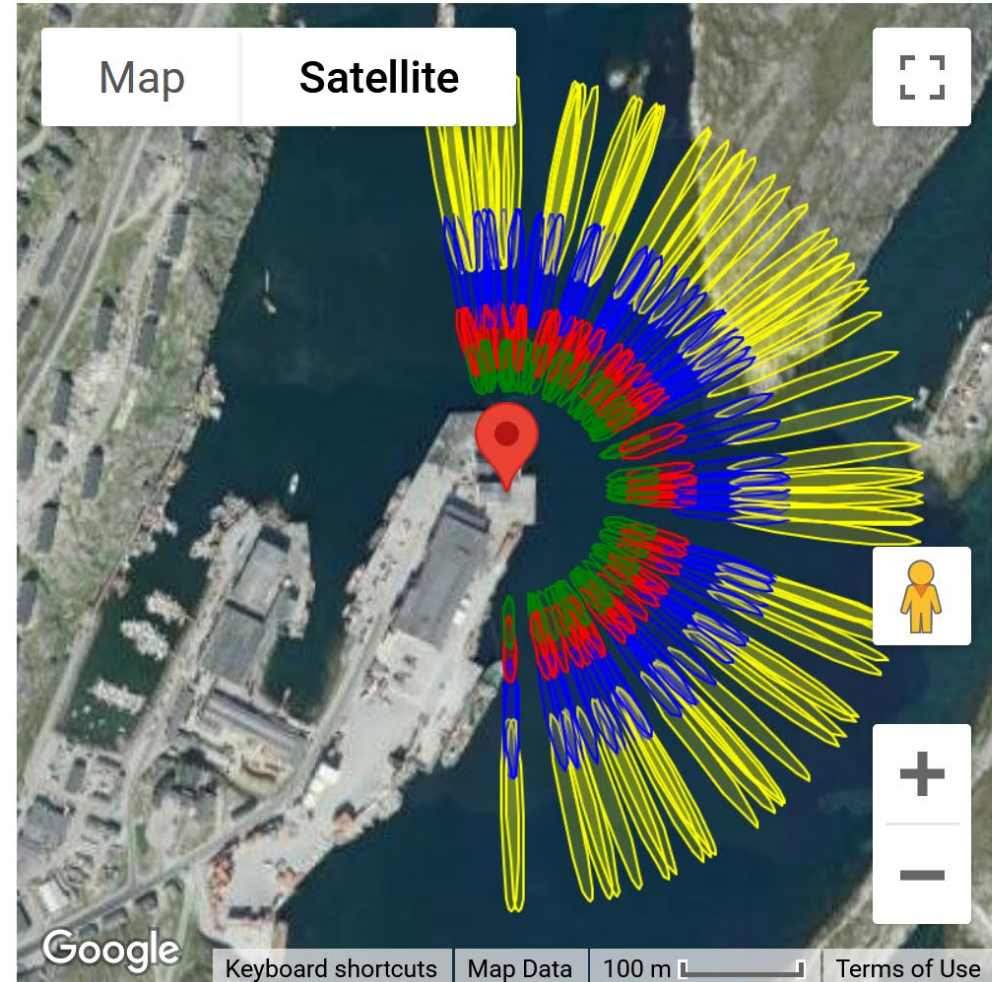
Azimuth Angles (deg) : -15 to 180

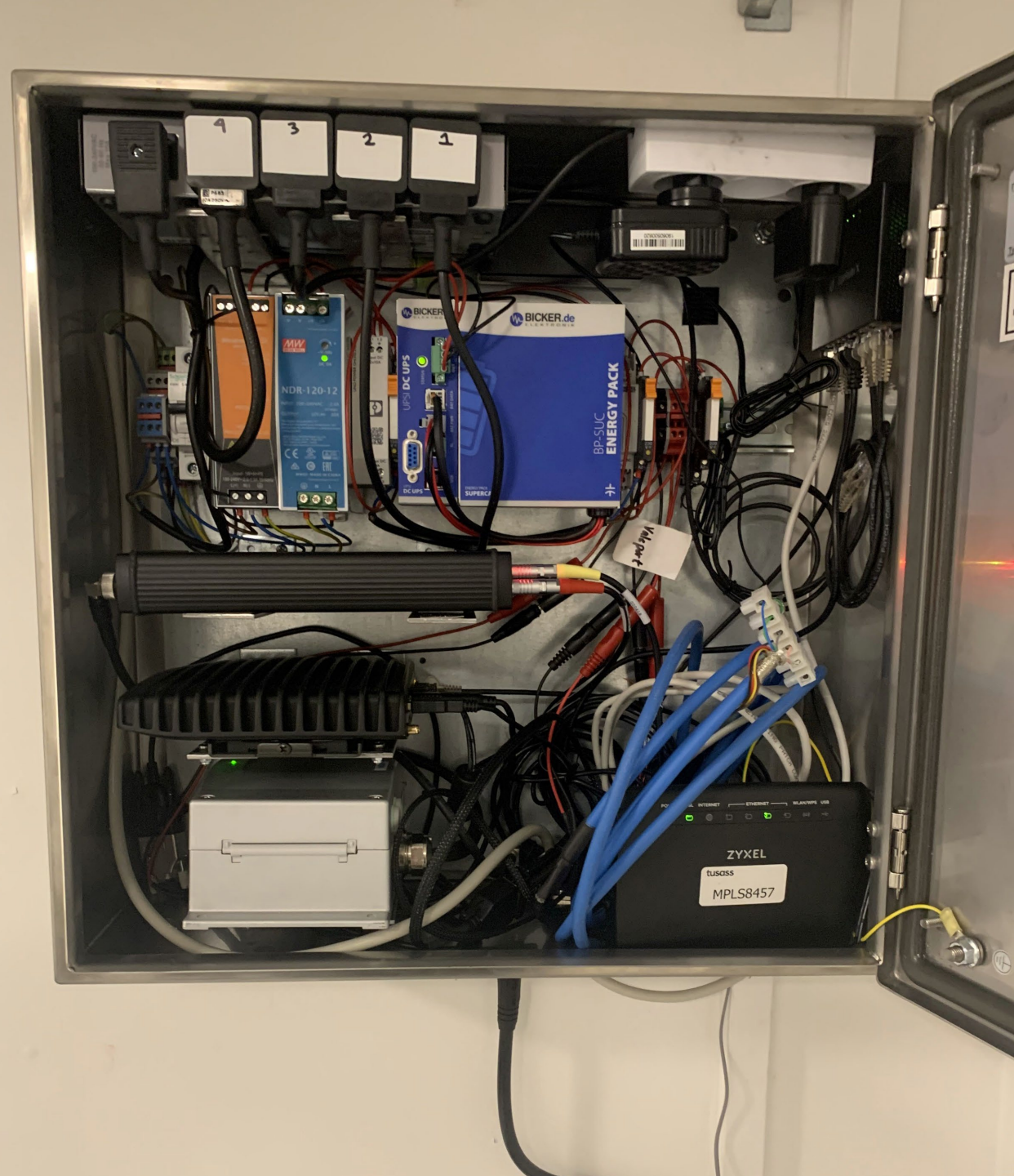
Constellation : GPS

Frequency: L1



[Return to the Reflection Zone API](#)





NUUK Tide + NUK2 IR

