# 21cm Hydrogen 1 meter Umbrella Radio Telescope

Design Goal:

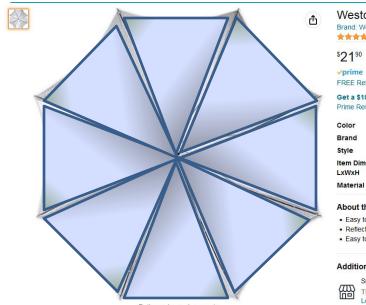
balance

Complexity Portability Performance



https://www.youtube.com/watch?v=ymclkNnCeCc

#### White Photo Umbrella at 21 cm



Brand: Westcott ★★★☆☆ ~ 22 ratings

\$2190

√prime

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Get a \$100 Gift Card: Pay \$0.00 \$24 Prime Rewards Visa Card. No annual

Black Brand Westcott Umbrella Style Item Dimensions 1 x 1 x 1 inches

LxWxH

About this item

. Easy to use and easy to carry when

Silver

. Easy to assemble/disassemble, cor

**Additional Details** 



This product is from a small bu



Nickel Copper Faraday Fabric



rejopfad Faraday Fabric Nickel Copper Faraday Cloth 1 Yards(44 x 39inch) Conductive Material + Faraday Tape(65FT x 0.5inch), Shielding Fabric Cloth

Brand: rejopfad New to Amazon

\$1999

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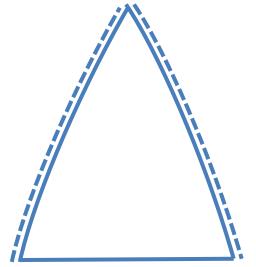
to 9% today.

Rejopfad Brand Color Grav Material Copper Number of Items Water Resistance Level Waterproof

About this item

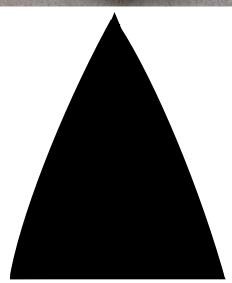
# Trace Shape on Paper & make a Cardboard Template





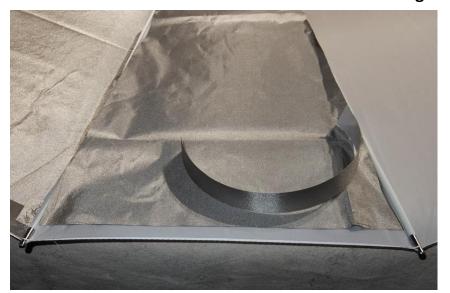
Cut width 1/4" - 3/8" oversized to Extend Under Ribs





Make a Cardboard or Foam Core Board Template

Align panel with ribs and attach with 1" tape at outer edge Spray umbrella then segment with contact cement Make small cutouts for rib <> umbrella tie strings



**Protect previously installed panels** 



Use dry brush to install Push edges of panel segment under ribs to overlap

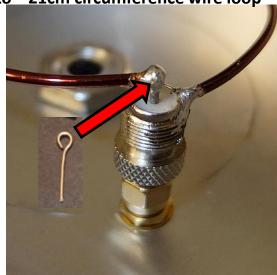


#### 1.42 GHz Loop Feed Antenna Fabrication

adapted from OM6AA design
http://om6aa.eu/Loop\_Feed\_with\_enhanced\_performance.pdf

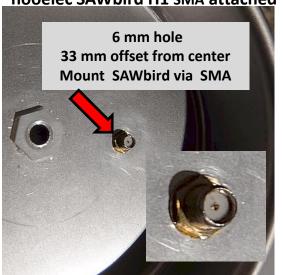
F-type <> SMA Adapter soldered to 21cm circumference wire loop







nooelec SAWbird H1 SMA attached





**Complete Loop Feed Assembly** 





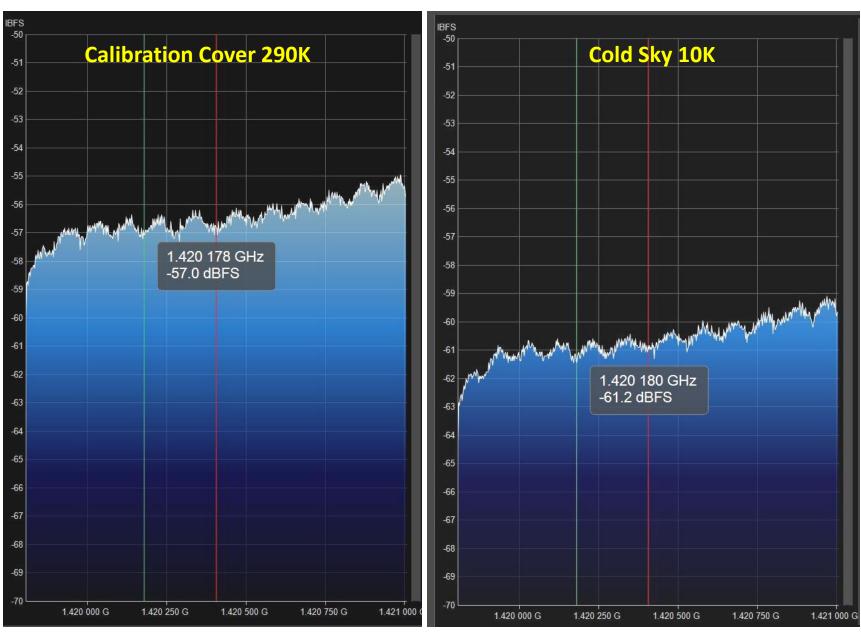




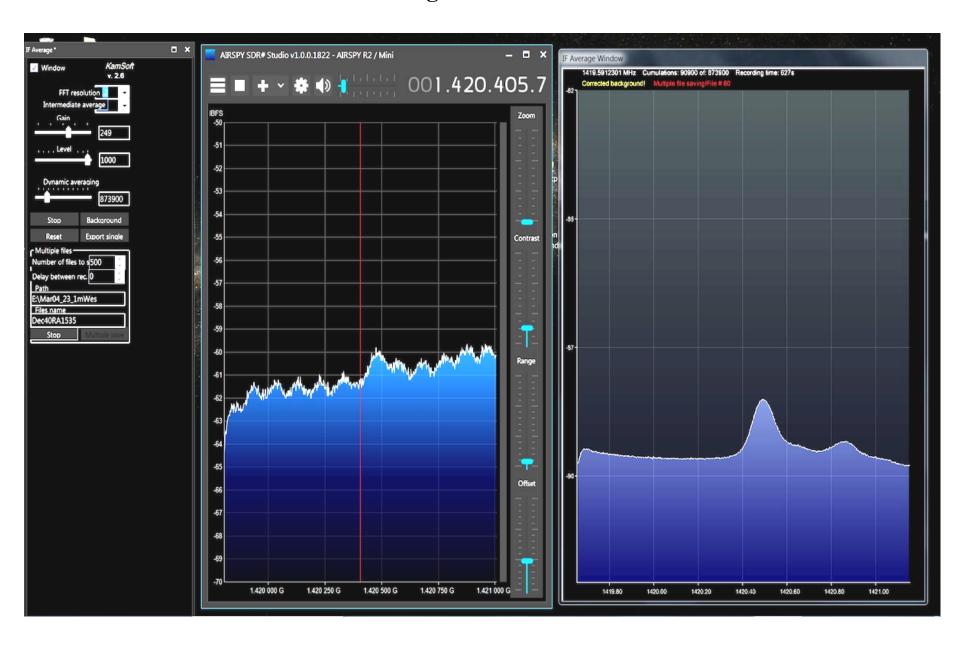




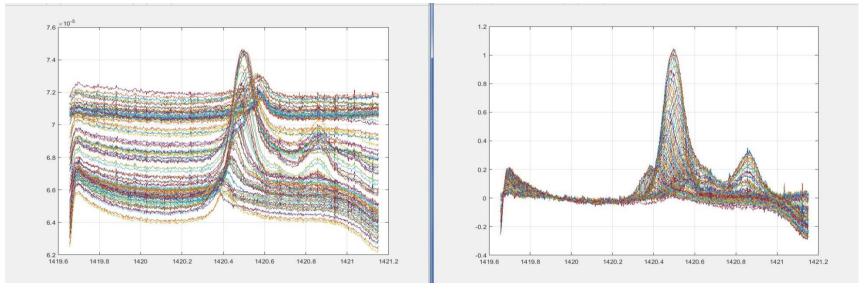
-57 dB < Delta 4.2 dB > -61.2 dB

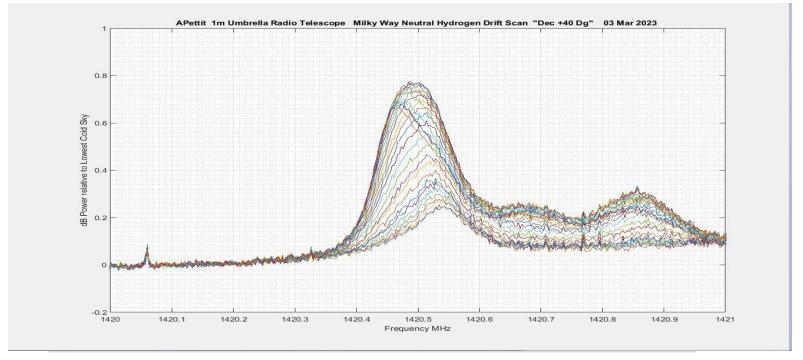


## **Declination + 40 Deg** RA 20:30 Hrs

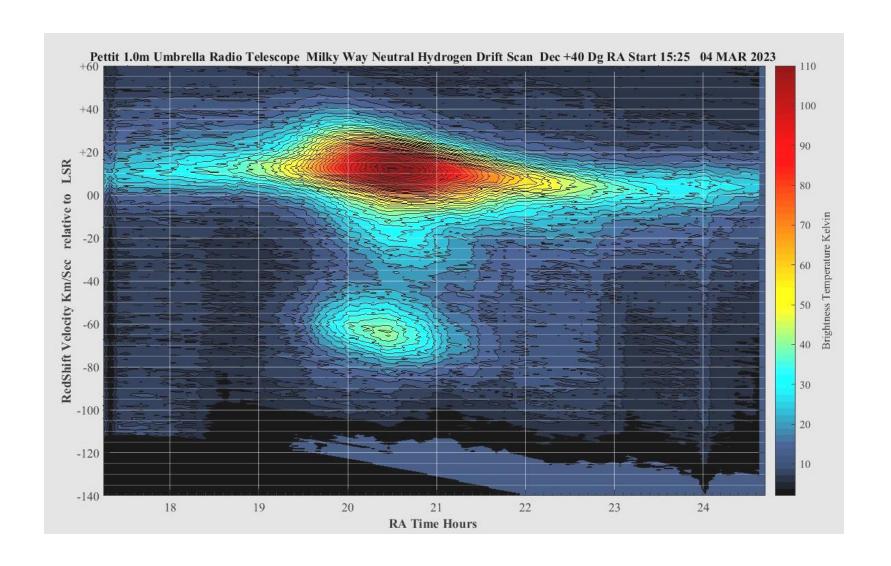


## Pettit 1m Photo Umbrella Antenna 105 ea 5 minute / sample Scans





## **Declination + 40 Deg** RA 20:30 Hrs





#### Parrish's Magic Line Round Cake Pan, 6 x 2

Brand: Parrish Magic Line

★★★★ × 243 ratings

\$999

**✓prime** One-Day

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Get a \$100 Gift Card: Pay \$0.00 \$9.99 upon approval for the Amazon Prin No annual fee.

Size: 6 x 2 Inch

6 x 1 Inch

6 x 2 Inch \$9.99

8 x 1 Inch

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Boobrie SMA Coaxial Cable Connector SMA to F Coax Connector F Female to SMA Male Adapter for LAN / LMR Wireless Antenna Devices / RF Coaxial Cable / WiFi Radios External Antenna Pack of 2

Visit the Boobrie Store

★★★★ × 106 ratings

\$619 (\$3.10 / Count)

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Compatible Devices Scanner

Connector Type Coaxial

Connector Gender

SMA Male, Male-to-Female, F type Female

Brand Boobrie

**Number of Ports** 



Roll over image to zoom in

MOOKEERF SMA Male to SMA Male Coaxial Cable 50 ohm KMR240 Coax Cable Ultra Low Loss Antenna Extension Cable with SMA Connector for 3G/4G/5G/LTE Network Equipment, GPS, RF Radio to Antenna

Visit the MOOKEERF Store

★★★★ ~ 30 ratings

\$1999

**√prime** One-Day

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Create a free account and save up to 5% today.

Size: 15 FT

2FT-2PCS

3 FT

3FT-2PCS

6 FT 10 FT

15 FT

KMR240 Cable Signal Loss and VSWR

Frequency 3FT 6FT 10FT 15FT 20FT 25FT 35FT 50FT VSWR
1500MHz 0.29 0.58 0.96 1.44 1.92 2.4 3.36 4.80 \$1.15



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Style: Nylon

Qty: 1 🗸

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MECCANIXITY Acrylic Pipe Rigid Round Tube Clear 8mm ID 12mm OD 305mm(12") for Lamps and Lanterns, Water Cooling System

Brand: MECCANIXITY

★★★★☆ × 86 ratings

\$699

√prime

FREE Returns ~

Size: 8mm x 12mm

8mm x 12mm

9mm x 12mm



A Pettit 1m Photo Umbrella Antenna Dec +40 RA 20:30 Hrs @ 21 cm

