

NVIS Project

Goal

- Create a NVIS antenna that can span the distance of San Benito County for a range up to 200 miles
- Have a system that can be easily stored and deployed in a relatively short amount of time with a footprint that does not create a major obstacle

References

- [911 Magazine: The Return of High Frequency: HF-NVIS, Your Regional Communications Lifeline When Everything Else is Broken](#)
- [Wiki: Near Vertical Incidence Skywave](#)
- [Buddipole: Quick-Fix for NVIS](#)
- [Buddipole manuals](#)
- [WOIPL: Commercial BuddiPole NVIS](#)
- [QSL.net: NVIS: Near Vertical Incidence Skywave](#)
- [Hamuniverse.com: NVIS: Near Vertical Incidence Skywave](#)
- [Emcomm.org: Simple NVIS Antenna](#)

Config BP-02 - Buddipole Dual Arm

Shopping List

- 1 - Buddipole Tripod - BPT - 85.00
- 1 - 18' Buddipole™ Mast - BML - 99.00
- 1 - The VersaTee™ - VTE - 45.00
- 2 - Low Band Coil - LBC - 93.00
- 1 - Rotating Arm Kit - RAK - 45.00
- 1 - Triple Ratio Switch Balun - TRSB - 85.00
- 2 - Accessory Antenna Arm - 32 inch arms - black - XAA - 30.00
- 2 - Long Telescopic Whip w/ Knurled Base > Sleeve - LTW - 23.50
- 1 - Mast Guying Kit - MGK - 25.00
- 1 - Antenna Mast Bag -- Long AMBL - 45.00
- 1 pk of 3 - Extra Coil Clips (3) - BCC - 12.50

Config BP-01 - Buddipole Single Arm

Shopping List

- 1 - Buddipole Tripod - BPT - 85.00
- 1 - 18' Buddipole™ Mast - BML - 99.00
- 1 - The VersaTee™ - VTE - 45.00
- 1 - Low Band Coil - LBC - 93.00
- 1 - 66' counterpoise kit - 18.00
- 1 - Triple Ratio Switch Balun - TRSB - 85.00
- 1 - Accessory Antenna Arm - 32 inch arms - black - XAA - 30.00
- 1 - Long Telescopic Whip w/ Knurled Base > Sleeve - LTW - 23.50
- 1 - Mast Guying Kit - MGK - 25.00
- 1 - Antenna Mast Bag -- Long AMBL - 45.00
- 1 pk of 3 - Extra Coil Clips (3) - BCC - 12.50

Buddipole Arm Assembly from Mast to End

- VersaTee w/ Balun - Black lead connected to the Counterpoise - Red to rest of the arm
- 32 inch accessory arm
- Low Band Coil w/ Coil Clip
- Long Telescopic Whip

KJ6ATF and W6TST have had luck getting this to work with SWR in the 1.5:1 to 3:1 range. One report has this configuration yielding a high SWR in the 6:1 range and currently unsure why this is yet.

Pictures

SAREX 2013 - Test from Hollister (BP-02)



South San Benito County Test (BP-01)



Pinnacles Test (BP-01)



Low Band Coil - For Tap Placement



