

Figure 1 — Orientation and dimensions of the Handy Yagi.

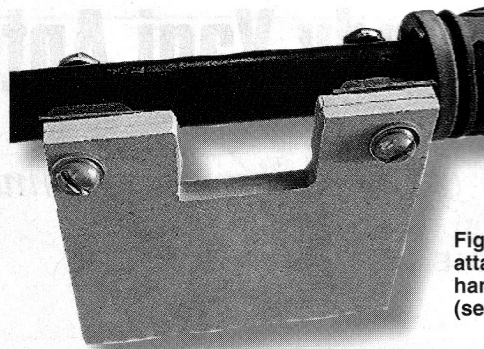


Figure 2 — Details of attachment point for handheld transceiver (see title photo).

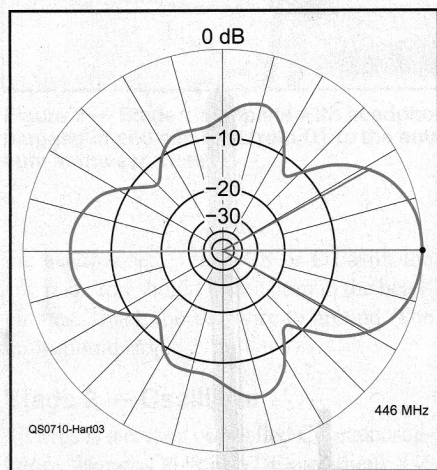


Figure 3 — EZNEC-predicted azimuth plot of antenna using dipole driven element.

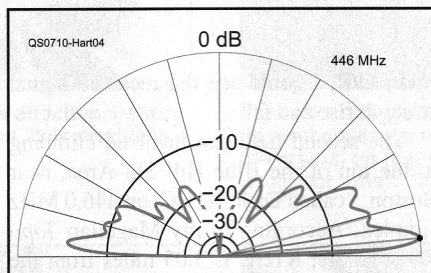


Figure 4 — EZNEC-predicted elevation plot of antenna using dipole driven element.

The EZNEC F/B yields a power ratio of:

$$4.65 = 10 \log (P_2 / P_1) \quad [\text{Eq } 3]$$

$$\text{antilog } (4.65/10) = (P_2 / P_1) = 2.9$$

Therefore, the calculated front to back power ratio is nearly 3:1.

In Conclusion

For anyone interested in temporary or portable operations on the 440 MHz band, the Handy Yagi might be a simple antenna solution. The design may also be useful in foxhunting activities. Larger implementations of the basic design could be mounted on a tripod or suspended from an overhead support. The basic design is very simple and adaptable. The key is the substitution of a transceiver for the driven element and feed line.

Notes

¹R. D. Straw, Editor, *The ARRL Antenna Book*, 21st Edition, p 18-45. Available from your ARRL dealer or the ARRL Bookstore, ARRL order no. 9876. Telephone 860-594-0355, or toll-free in the US 888-277-5289; www.arrl.org/shop/; pubsales@arrl.org.

²www.eznc.com.

³J. Hallas, W1ZR, "Making Sense of Decibels" *QST*, Apr 2007, p 61.

Tom Hart, AD1B, began listening to short wave broadcasts in 1961. He received his Novice class license, WN1JGG, in 1968 and has been active on CW, SSB, RTTY, FM and packet ever since. He still monitors the short wave bands, listening to Radio Australia or Radio China International while driving to work every morning.

Tom has a BS from Tufts and an MS from Northeastern. He is an accountant who would rather be chasing or giving out counties on 20 meters. You can reach Tom at 54 Hermaine Ave, Dedham, MA 02026 or via tom.hart@verizon.net. **QST**

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QST congratulates...

◇ Allen Eiermann, K3LSR, who has been named the new acting chief of Air Force MARS. Eiermann takes over for Don Poquette who recently retired from the Air Force. Eiermann holds a General class Amateur Radio license and is a former Navy/Marine Corps MARS member. "I am looking forward to serving the MARS community and will work closely with the Army and Navy-Marine Corps MARS Chiefs to bring the tri-service MARS programs closer to being just MARS. I fully support interoperability between the three services and the efforts to provide communications services to other federal agencies and civilian communities during times of need," Eiermann said.

◇ retired CBS Evening News anchor Walter Cronkite, KB2GSD, and *QST* author and ARRL Technical Advisor John S. Belrose, VE2CV, who will receive the Radio Club of America's foremost achievement award, the Armstrong Medal, at the Club's November 16 banquet in New York. In addition, Cronkite has been conferred honorary membership in the Club in part because of his work to promote Amateur Radio. Dr Belrose is the author or co-author of more than 150 papers, articles and technical correspondence letters written relevant to the fields of radio communications, radio science, antennas and propagation.

◇ Elden P. (WA9IQL) and Ester I. Lafoon, of Bolingbrook, Illinois, who were honored by their village's Mayor and Trustees for making "an outstanding contribution to the community." The honor cited Elden's extensive emergency communications volunteer service to his fellow citizens.

◇ Clay Frienwald, K7CR, of Auburn, Washington, who is to receive the 2007 *Radio World* Excellence in Engineering Award from the editors of *Radio World*, a newspaper for radio managers and engineers. He is being recognized for his work to improve the state of emergency alerting systems in the United States and broadcasters' involvement in EAS, as well as for his accomplishments as a corporate technical executive.

◇ ARRL member Dr Norbert E. Yankielun PE, WA1O, whose book, *How to Build an Igloo and Other Snow Shelters*, has been published by Norton Press.

I would like to get in touch with...

◇ Ken Miller (call sign unknown), who was stationed at Moody AFB, Valdosta, Georgia, in the mid '70s. — Rick Jandrt, K9SGT; k9sgt@arrl.net