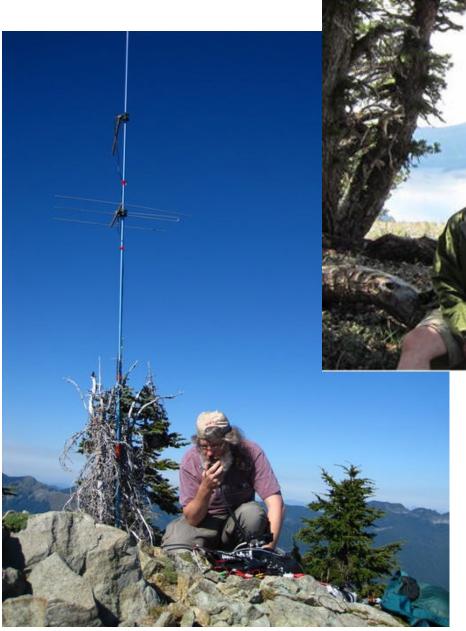
Antenna Systems for Portable, Mountaintop and Rover Operations

Etienne Scott K7ATN Darryl Holman, WW7D



SOTA!



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its on the Air



Contesting—portable or rover (WW7D 2011 ARRL UHF contest)

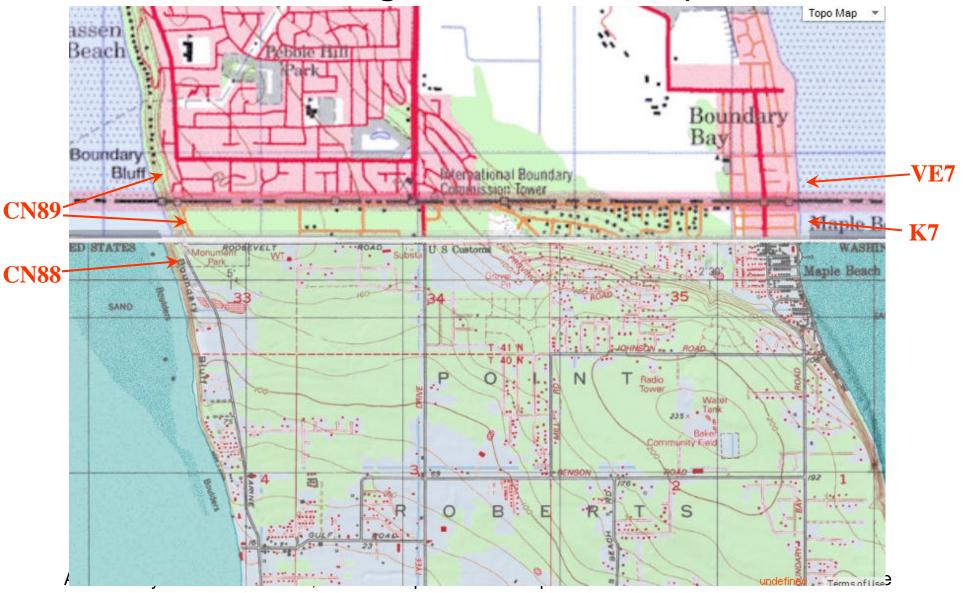


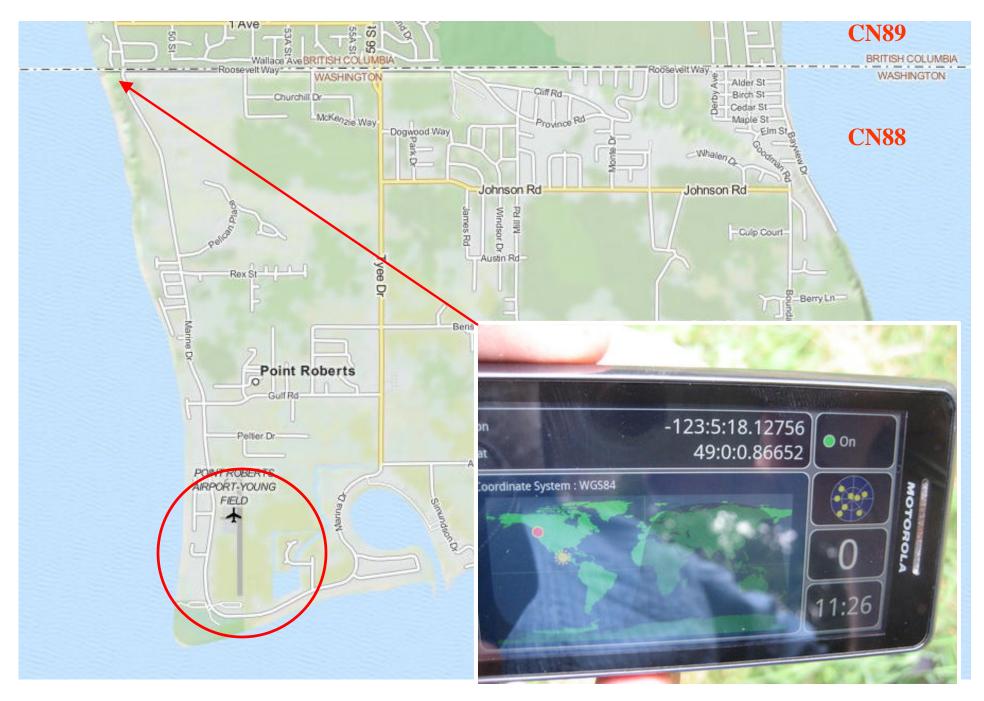


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Point Roberts, WA extends about 800 feet above 49° longitude (i.e. 49th parallel)





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This pile of stuff...



- Fits nicely in both vehicles
- Covers 4 bands





Field Day





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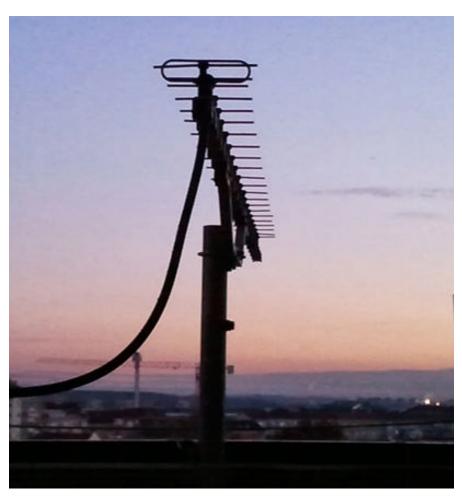
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Grid expeditions



KI7JA (SK) contest expedition

Restricted antenna situations (CCR and hotels)





Public service and emergency communications









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Vacation, cruises, camping, etc.





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Portable antenna topics (with show and tell)

- 1. Portable masts
- 2. Attaching antennas to masts
- 3. Some antennas ideas for VHF+

Portable Masts

Painter extension poles



Crappie fishing pole



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Fiberglass poles: Jackkite flag pole 31' (~25' usable) about \$75



The Mast Company products



Buddypole mast (and the like)





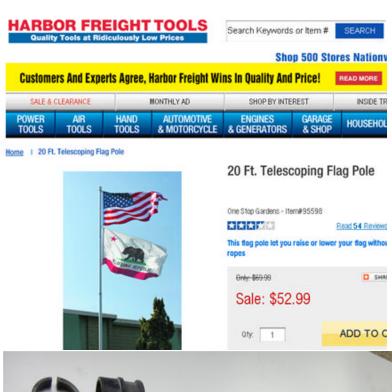
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Telescoping antenna mast





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Attaching the antenna to the mast

Modified burette clamp









Wooster Lock Jaw™ Tool Holder









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Ideas for 6 meter antennas

One evening project: 6m "lawn chair halo"



Simple 6m directional antennas The Moxon (2 ele)





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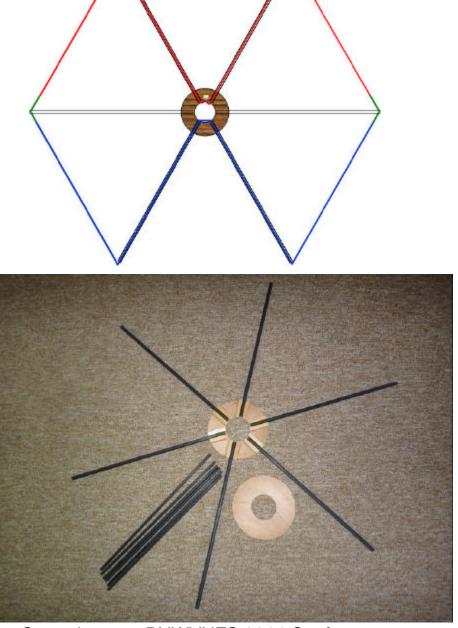
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Simple 6m directional antennas The Hexbeam (2 ele) Small turning radius (< 3')





Contact WW7D for construction information



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Or...Yagis





How about an easy-to-assemble WA5VJB "Cheap Yagi" for 6m?





Dimensions available from WW7D

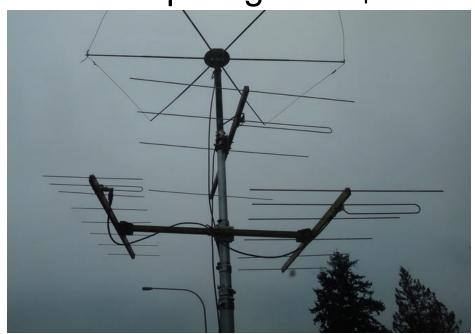
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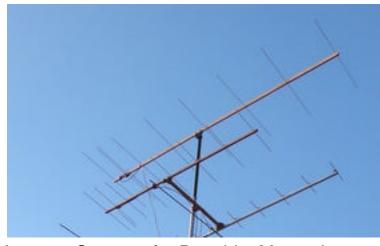
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Simple Directional Antennas for 2m and above

"Cheap Yagi"

http://www.wa5vjb.com/yagi-pdf/cheapyagi.pdf





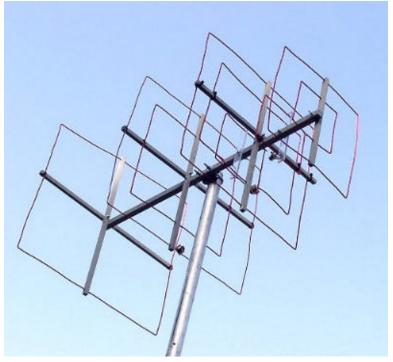


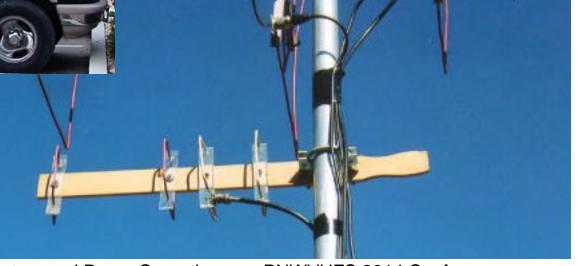
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Simple Directional Antennas 2m+ The Quad:







Simple Directional Antennas 2m+

The Quagi:



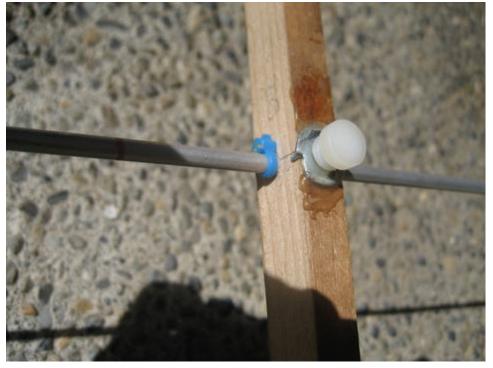


A couple of tricks for making antennas extra portable:

Fold using narrow top hinges



Make elements removable with nylon thumbscrews to hold element in place



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