

Low Profile LF and MF Antennas
Proposed additions to the experiment
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My 2 meter high 475kHz dipole has been successful with reception reports from across the US and even Europe. It works despite being located in a forest. I would like to compare this antenna to a modest vertical antenna of 15 meters height, that has a full-length ($\frac{1}{4}$ wave resonant) top loading wire. This simple antenna will not require a large tuning inductor at the base, and will not have the high voltages and narrow bandwidth of a traditional vertical, which is typically formed from a 160 meter band dipole. It should operate in the forest, where it will be well below the tree tops, and should be much simpler to construct, and safer, for those who have the space. The increase to 10W ERP reflects the increased efficiency expected.

I have also added a new emission mode that shows great promise for weak signal communications on these low frequency bands. It is **WSQ2**, for **Weak Signal QSO 2** seconds/symbol.