WB9CIF ANTENNA AND STATION DESIGN DETAILS

FOR THE SOLAR ECLIPSE QSO PARTY LOG SUBMISSION

The WB9CIF station used for the August 21, 2017 Solar Eclipse QSO party consisted of the following:

An Elecraft K3S transceiver feeding an Elecraft KPA500 500 Watt amplifier.
The KPA500 amplifier is connected to two 110 foot runs of Timeswave LMR400 coax via an Alpha Delta antenna switch.
The two 110 foot runs of coax are connected to a Force 12 C4E 9 element Yagi atop a 56 foot tower.
The C4E consists of a 40 meter linear loaded rotatable dipole 34 feet in length, two full size elements for 20 meters, two full size elements for 15 meters and 4 full size elements for 10 meters.
The 4 elements for 10 meters are effectively 3 elements as the two center elements are driven to provide broad band operation across the complete 10 meter band.
All 9 elements are on an 18 foot boom.
The 40 meter rotatable dipole is fed via one of the two 110 foot coax runs.
The 20 through 10 meter bands are fed via the second 110 foot coax run.