The K 3LR MultiMulti Team

Living the Amateur Radio wireless dream!



Tim Duffy, K3LR Dayton Contest Forum May 19, 2007

K3LR History

- Novice license WN3SZX at Age 12 Extra at 14
- 35 Years in Amateur Radio
- 3 time winner of the NA CW Sprint
- 2 time SO winner of ARRL DX Phone contest
- Many top ten CW SO SS finishes in the 80s
- This station started in 1988.
- Won CQWW USA Multi single 1981 and 1991

K3I R com

K3LR Multi Multi since 1992. 10 USA #1

So What is the Secret?

Base of 120' ¼ wave 160 M driven ele L network ¼ wave shorted stub

Use 4 parasitic wires For 3 L vertical beam

Base insulated



Base of 80 meter vertica

Base of 80 meter Vertical

4 In line towers on 80 meters from TWO Phased 4 squares

R.com

Comtek 4 square Control for 80 meters

3 R.com

Switch control For TWO 4 squares 80 meters #1

3LR com

190' 40 M tower



160 array

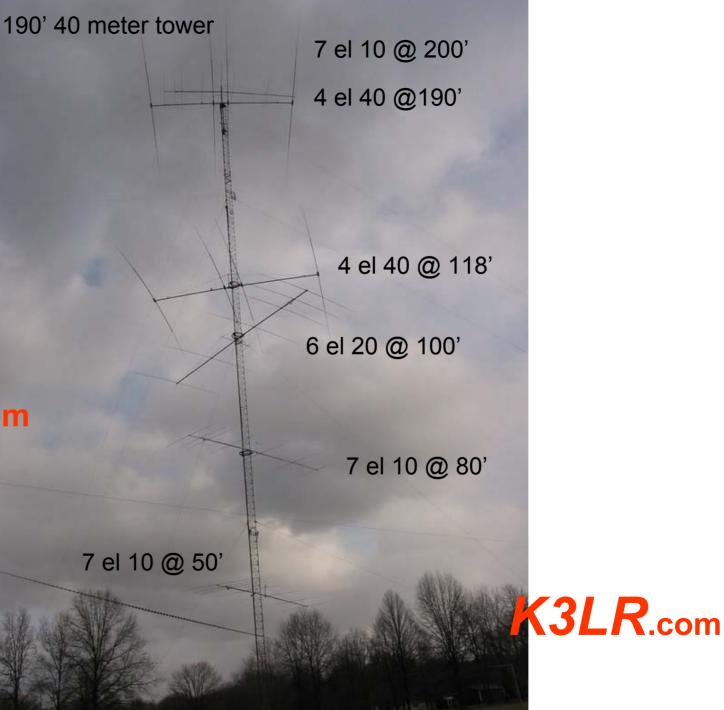
8 x 80 M verticals





10 M #2 7L/7L/7L

20 M #2 6L on 60' boom (add 2nd this summer)



190 ft 40 meter tower at K3LR

5/8 wave vertical at 200' 10 M

7 ele 10 M beam @ 200'

4 el OWA 40 @ 190'



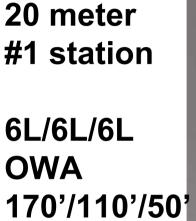
Very Busy!

Supports 80, 40, 20 and 15 All on one tower



Base of 170' 20 Meter Tower





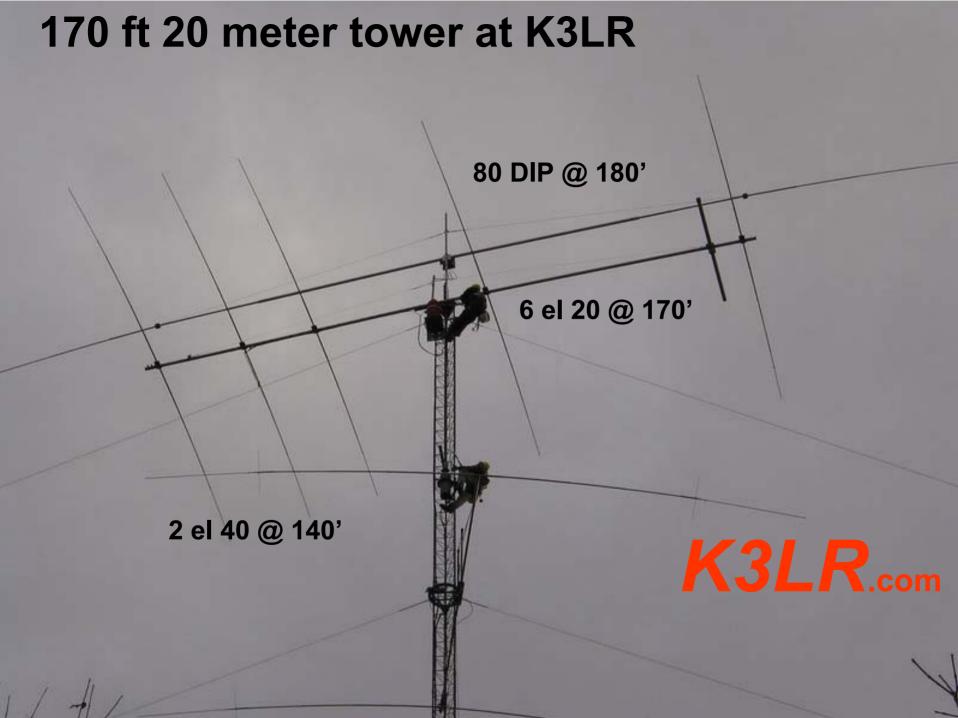
Now 18 ele

Upgrade To 24 ele This summer



80M #2 Dipole at 180' 40M #2 2L at 140' Upgrade to 2L/2L W6NL Moxon design

15M #2 6L/6L 80'/40'



Top 3 Yagis on 15 meters with 6 meter beam at 170'

15 meter #1 station

7L/7L/7L/7L 160'/120'/80'/40' 28 elements



K3LR.com

Bottom 3 seven element OWA Yagis for 15 meters

10 meters 21 elements 7L/7L/7L 100'/66'/33'



Controller for DX Engineering 4 square RX array

C S Soon

K3LR.com

160 meter mobile Antenna X4

K3LR.com

4 Square RX array for 10 meters 30 3:51 PM With 5/8 wave elements 20 meter RX 4 square

> B A

COM.

10 meter RX 4 square

60 ½ wave radials Per vertical

10 meter 4 square RX array

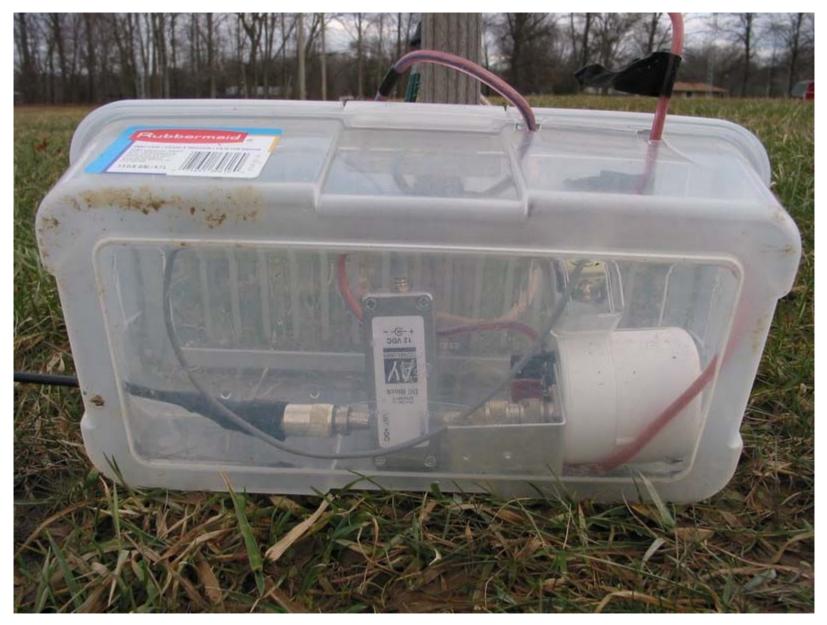
K3 Room

1 5/8" feedline

Comtek Controller 4 square 10 M RX

.com

160/80 Beverage box. K9AY bias "T" and K9AY 9:1 XMFR





Hardware and Engineering are important

Over 50 CQWW and ARRL DX Multi Multi Operations since 1992

Operators are the most important element! Over 100 different Ops in 15 years Several have over 40 contests at K3LR

> Young Ops like N2NL, N6MJ, KL9A, N6RT W2AU, LU7DW, M0DXR Experienced Ops like N3RA, K1AR, K3UA N2NT, N2NC, N3GJ, N9RV, K8CX, W9ZRX, W2RQ



-OPERATORS are VERY IMPORTANT!

- -Dave, W9ZRX is an amazing engineer
- -Use the best radios available. Modify for MM
- -Single band amplifiers using single 8877
- -Operated 24 Multi Multi contests before 1st win 2nd win followed several years later
- -Competition is FIERCE from W3LPL and KC1XX!





- -Winning operators always receive exact copies of winning plaques
- -A winning tradition. History is important.
- Good food and good coffee.
- -K3LR QSLs 100% via direct, bureau, LoTW, eQSL
- -An operator team that works very well together, trusts each other and won't let any member down.
- -Will, commitment and a clear vision to win by all

15 meter position Run Left – Mult Righ

(

in August 1.

COLUMN AT A

110

100

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20 meter HOT SHOTS ARRL DX CW 2006

12RQ



John KIAR

KIDG and N2NT on 20 meters

3 Ret.

Annale Bannes Constants

K3LR.com

30

Dave, KM3T on 40 M RUN during ARRL DX Phone 2006







Dan, W2AU on 10 meters ARRL DX CW 2006

ARCON DOL

George, N3GJ on 10 meters

NTERNA PERMIT

SLR

Ken, KIEA on 160 meters ARRL DX CW







80 Meters ARRL DX CW 2006 with K8CX

AN LOOK OF

K3LR

NAME AND ADDRESS OF TAXABLE

8





K3LR 2006 CQ WW Team

W2AU MODXR KL9A N6MJ N2NL K3UA N6RT N3GJ K8CX N2NC K3LR

2007 ARRL DX CW K3LR Multi Multi Team



20 meters 0000zulu CQWW PH



