Low Power Contesting (100watts and a wire antenna) Jay – KT₅E

Low Power Contesting



100 watt rig



A simple wire antenna

A microphone



OR



A paddle

Low Power Contesting Agenda

- + What is contesting
- + Why contesting
- + How to get started
- + Advancing from search and pounce
- + Improving your station and scores
- + Links

What is Contesting?

- + Also known as "radiosport"
- + Contacting other amateur radio operators
 - + Various modes (SSB, CW, or RTTY)
 - + Various power levels (QRP, 100watts, High power)
- + Stateside and DX
- + Single operator, multi-operator or Assisted
 - + Assisted is utilizing online tools to find stations/multipliers

Why Contesting?

- + For fun of course
- + For points
- + For bragging rights
- + For certificates and plaques (1rst, 2nd, 3rd, etc.)
- To help get other awards
 - + Worked all States or Counties
 - Worked all Continents/Zones
 - + DXCC
 - + Prefixes
 - + Japanese Perfectures
 - + Russian Oblasts
 - + 100s of other awards (see ARRL Handbook)
- + You will become a better operator
- + You will better understand your rig, antennas and propagation
- + Do you enjoy ARES, Nets, etc? contesting will make you a better Net operator







How to get started

- + Choose a popular contest
 - + CQ Worldwide US works DX and vice versa
 - + CQ WPX US works everyone (DX and US) lots of activity
 - + ARRL Field Day US (great for low power, wire ant, and activity)
 - + ARRL DX Contest US works DX
 - + ARRL Sweepstakes US, great exchange, lots of activity
 - → One of many state QSO parties California and Texas are big,
 Colorado QSO party makes you the DX
 - + See the contest calendar at www.contesting.com

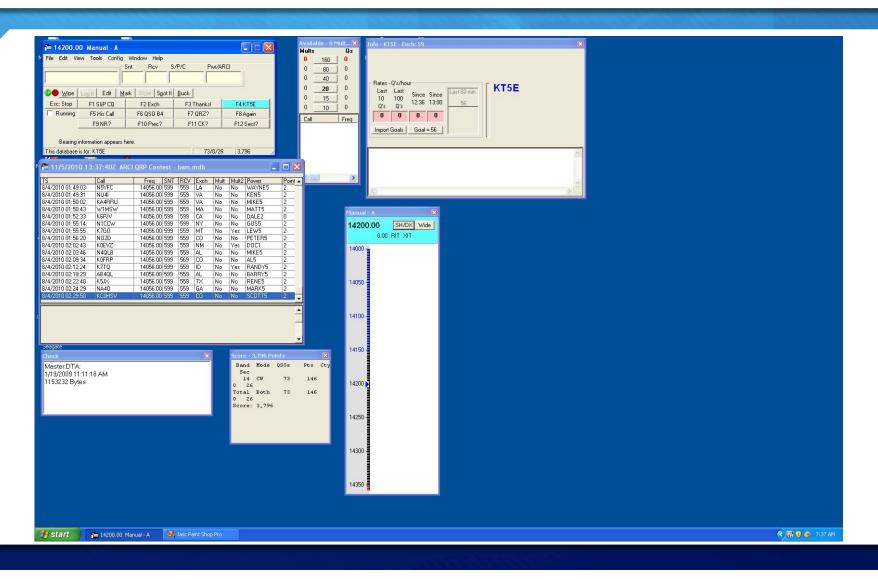
How to get started

- + Try a single band entry
 - + Allows for other things on the weekend
 - + You will learn this band very well
 - + Listen to the DX beacons prior to the contest to understand propagation on the band http://www.ncdxf.org/beacon/beaconschedule.html
 - + Beacons are CW so note SNR compared to SSB
 - + Modest antennas
- + Sit with one or more experienced operators during a contest
- + Get with a few others and do a Multi-operator entry
- Search and Pounce
 - + Start low or high and slowly work the other way
 - + Pick off those loud stations If you can hear them you can work them
 - + Pay attention to how others are working stations learn
 - + Those that are fast and have good ears will get you in sooner
 - + Those that are less experienced will be frustrating so move on

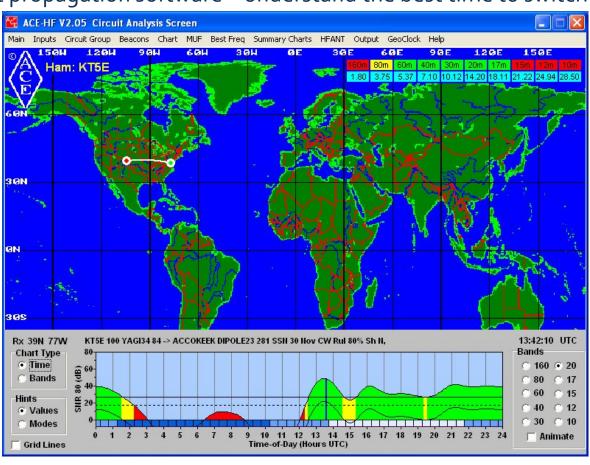
Advancing from search and pounce Holding a frequency

- + For success here make sure the band is playing well
 - Your ease of working others during search and pounce
 - Loads of S9 or better signals
 - + Lots of multi-hop propagation many various signals
 - + Listen to the DX beacons prior to the contest (or during) to understand propagation on the band prior to running
- Search & pounce until you find an opening
 - + Start from low to high or high to low
 - + Work stations until you find a crack
 - + Call CQ and keep up the chatter
 - + Keep the calls short (CQ contest Kilo Tango Five Echo, or contest Kilo Tango Five Echo)
 - + Leave only 2-3 seconds between calls
 - + Do not expect to eliminate all QRM when choosing a frequency it is a contest! remember K5tr

- + Antenna
 - + Orientation
 - + Note height for DX vs domestic
 - + Think about how you can upgrade given your restrictions and budget
 - + Wire arrays, loops, etc.
 - + See ARRL antenna book or ON4UN low band Dxing for ideas
- Use a headset and a footswitch
 - + This keeps your hands free to enter calls, work the rig, etc.
 - + Quicker than moving your hand to the PTT
- + Use a logging program with a built in keyer and rig interface
 - + Sending CQs during the late hours can be tiring
 - + Automated CQs can give you some pleasure reading when things are slow
 - + Quality helps hold a frequency



Get propagation software – understand the best time to switch bands



- + Learn CW
 - + Increase your skills
 - + Better signal to noise ratio (10db or more)
 - + Wire antennas sound like SSB yagis
 - + 100w CW signals like KW SSB signals
 - + Longer band openings
 - + More dx more frequently
 - + More bandwidth
 - + 160 meter (example)
 - + Wire antenna dipole
 - + 300 qsos, 71 sections, 48 states
 - + 5 watts

Links

- + <u>www.contesting.com</u> The contesting alternative to Eham
- + <u>www.solarcycle24.com</u> Check to see how the cycle is progressing
- + http://www.arrl.org/contests ARRL contest pages
- http://www.cq-amateur-radio.com/cq_contests/index_cq_contests.html CQ Magazine contest pages
- + http://www.ncdxf.org/beacon/beaconschedule.html DX beacons to help you study propagation
- Propagation prediction software
 - + Ace HF http://www.mygeoclock.com/acehf/
 - Wincap http://www.taborsoft.com/wwizard/
 - + W6EL http://www.qsl.net/w6elprop/
- + http://www.ncjweb.com/ The National Contest Journal sponsored by the ARRL