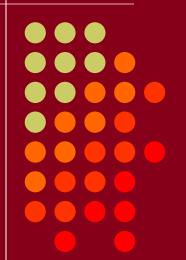
CTU Presents

Contest Hints and Kinks Ward Silver, NØAX



• CTU • CONTEST UNIVERSITY



Overview



- Priorities
- Building On Success
- Bang for the Buck
- Refine & Enhance
- Q&A Anytime!





Who the Heck is NØAX?



• And why do you care?





Goals of the Session



- Provide tips, suggestions, and guidelines
- Give you ideas for your own circumstances
- Find "Score dB's" and "low-hanging fruit"
- Develop confidence in your own abilities
- Laff





Assumptions about you



- Contesting for a couple of years
- You feel comfortable with CQ or S&P
- Maybe a Division, State, or Regional winner?
- Decent radios and antennas
- Taken and given some lumps
- Want to give some more lumps
- What's the best way to get better?





How To Use This Course



- Not a how-to cookbook
- Follow in the text
- Take short notes
- Record those ideas!







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- When asked what was the most powerful force in the Universe, Albert Einstein replied, "Compound interest."
- Incremental improvement, applied relentlessly, is unstoppable.
- Plaques are won a dB at a time
- Hints & Kinks are the ham radio equivalent of incremental improvement.





Most Powerful Improvements



- Operator First
- Technique Second
- Antennas Third
- Radios Fourth
- Gadgets Last





Cycle of Life



Observe



Judge



Act





Cycle of Life



Observe Judge Repent!! Act





The Operator



- Ergonomics
 - Incredibly important
 - Fun or Slog? Choose!
 - Maintain concentration, remove distractions
 - Make it EASY to do the right thing!
 - Especially when you are tired...
 - Labels and logical layout
 - Preserve and enhance accuracy





The Operator



- Head and Eyes
- Back & Arms
- Your Butt
- Fitness (Before and During)





Fitness



- Personal fitness
 - Blood flow and stamina
- Techniques for remaining alert
 - Diet, Catnaps, Breaks
- Understand your body rhythms
- Pacing trade low-rate periods for sleep
 - Review old logs to find the right off-times
- The 90-minute magic





Knowledge



- Know your station equipment
- Study propagation include possible events
- Learn your software
 - Turn OFF unneeded features and options
- Recognize calls
- Learn the goofy prefixes and zones
- Memorize approximate bearings by zone





Technique



- Number one source of score dB's
- Practice makes the master
- Listen to the masters up close and personal
 - Start working with multi-op teams
 - Or start one!
 - Ask them questions!
- Trade recordings or listen live





Technique Gimme's



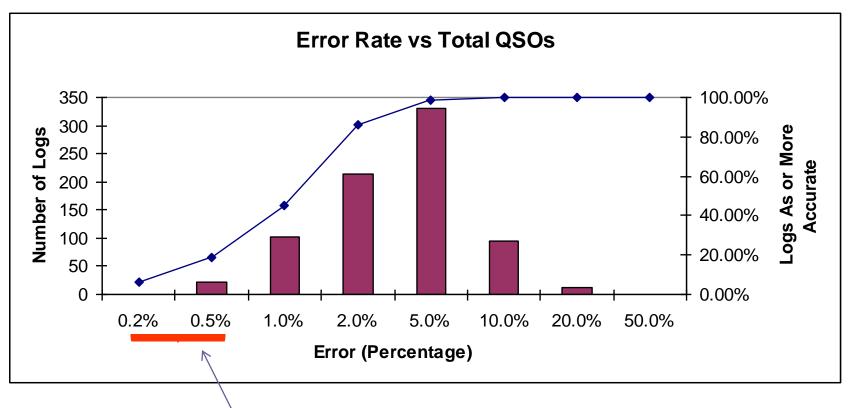
- Run more and whenever you can
 - Find propagation that allows your station to run
 - You don't have to be on the band edge!
 - Think signal-to-noise on both ends
- Learn when NOT to log it! Avoid penalties!
- Type send speak copy accurately
- Breathe, be consistent, find a rhythm
- The second radio make it play





Technique - Accuracy





Here are the Top Ten – get there!





Technique – Accuracy



- Go for world class accuracy (<1% error)
- Study that LCR/UBN report
 - What do you consistently miss?
 - What do others consistently miss from you?
- Pull out full calls
- Avoid databases and be wary of prefill
- Don't trust spots from <u>any</u> source
- Learn not to guess and when to move on





Technique – Managing Time

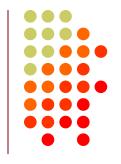


- Running is key
- Rate meter QSOs per multiplier
- Distractions
 - Spots and DX-ing
 - Fiddling with the antennas and rig controls
- Plan your operating time but be flexible
- Go get that next contact!
 - No TV, no Facebook, no browsing, no chat





Technique – Managing Score



- Watch for & move mults (Sunday!)
- Avoid penalties at all costs
- Expeditions work 'em all!
- Make skeds <u>during</u> the contest
 - Plan for propagation before the contest starts
 - Know the grey line
- Quick reviews of the situation now and then
- Compare to last year or the competition





The Second Radio



- Start simple
 - Spare transceiver
 - Amp not necessary
 - Vertical and 100 watts can work a lot of stuff
 - Filters are worth it build or buy
- Learn your program's keystrokes
- Make SO2R normal





The Second Radio

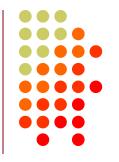


- Taking it up a level
- The quick QSY be ready!
- Running and tuning at the same time
 - Learn to listen to two audio streams at one time
 - Practice shifting your focus
- Automate to beat fatigue
 - Build or buy a single-box controller
 - Make the layout match the equipment





Pileup Management



- Don't panic set a rate you can maintain
- Respond in a consistent amount of time
 - This establishes a rhythm and keeps order
- Pick the fast guys first
- Listen for "DX sound" and odd first letters
- Manage your RF Gain and Attenuation
- Learn to rely on your ears for filtering





Interstation Interference



- Filters at the exciter, stubs on the amp
 - Wide-band noise must be filtered <u>at the xmtr</u>
- QRP (and maybe LP) can S&P on the same band as the run radio!
 - Protect the receiver front end
- Bypass diodes connected to wires
 - Rotor control boxes, relay kickback diodes
- Good RF bonding of all equipment





Antenna Selection



- Hear the next level (they already hear you)
- Think in terms of steps
 - Hear better, then transmit better, step-by-step
- Simplify switching and aiming
 - Contesting is not DX-ing
- A "temporary" tribander for mult-rich area
- Explore receive antennas on low-bands
- Still the biggest bang for the buck





Software



- Turn off unused features & windows
- Upgrade and test <u>before</u> Friday
- Arrange windows to match your layout
- Learn how to edit a previous QSO while not suspending a run
- Put the monitor where you can see it easily
- Be familiar with several major programs





Resources



- Other contesters & your contest club
- SO2R page www.k8nd.com/Radio/SO2R/K8ND_SO2R.htm
- Amps, Towertalk, Top Band, cq-contest email reflectors
- W2VJN's "Managing Interstation Interference" from International Radio
- W4RNL Antenna design via antennex.com
- ARRL Contest Update and NCJ





Most Powerful Improvements

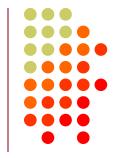


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Thanks!



And go get 'em!



