

Yankee Clipper Contest Club **Contest University** February 10th, 2015 6:00-9:30pm ARRL HQ Newington, CT ontes





Contest University **Professors**

Doug Grant, K1DG Paul Young, K1XM Pete Chamalian, W1RM Tony Brock-Fisher, K1KP

ontest







Contest University Agenda

Before the Contest **During the Contest** After the Contest

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Before the Contest (BC)

- Plan, Plan, Plan!
- At any level, improving your skills makes the game more fun!







BC - Outside

- Finish up any antenna work at least a week before the contest
- Inspect coaxes & control lines for chewing, lawnmower bites, etc.
- Look up! Check for obvious problems! Why does the driven element on the 40 swing in the breeze?
- Test everything, especially stuff you haven't used recently
 - Rotate the rotators
 - Check SWR on all antennas
 - Listen for intermittent connections





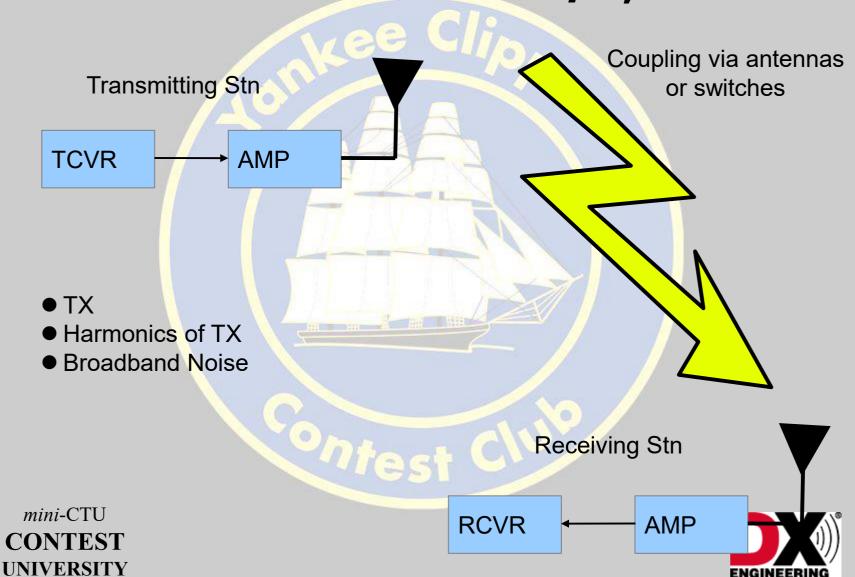
BC - Hardware

- Have at least one backup for critical hardware (radio, amp, computer)
- Test everything at full power to find issues with keyboards locking up, feedback in DVKs, etc.
- Tune up at full power on each band and check the other bands. Figure out your filters and stubs and document them.



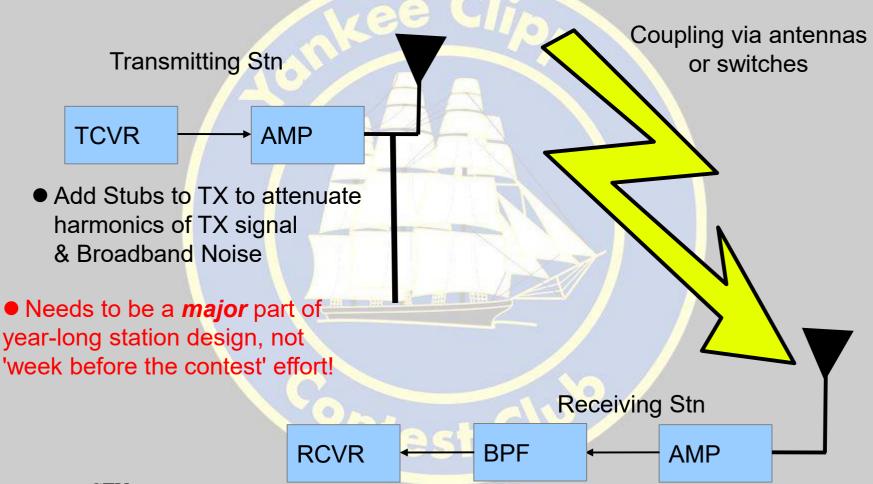


BC - Hardware - M/2, MM





BC - Hardware - M/2, MM



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Add Band Pass Filter (BPF)
 to attenuate TX fundamental,
 eliminate RX Overload





BC - Environment

- Clean up the shack the week before the contest. You want to feel positive, and a clean environment supports this.
- Adjust/modify shack lighting or good visibility without glare or eye strain.
- Ensure good shack ventilation to keep cool in heat of battle with amplifiers running.
- Get good chairs. Not too comfortable, but not uncomfortable either. Should be adjustable for different operators.





BC - Software

- Update your logging software to the latest version and test it with all interfaced hardware.
 - •If it doesn't work, go back to a previous working version (you did save a backup, didn't you)?
- Update your data files (.cty, .sec, masterdx, etc) to the current version and test them
- On logging computers, disable scheduled virus scans, backup jobs that might impact the logger program, or firewalls that impact connectivity.
- On networked multiops, make sure the network still works. Can the computers talk to each other? -Were there any network changes over the summer that might impact connectivity?
- Run a gray line program on your desktop for quick reference.





BC – Final Prep

- Leave out a box of split-core chokes for solving RFI issues in real time.
- Shortly before the contest, go around the house and UNPLUG ALL WALL WARTS to reduce RFI
- Negotiate with your significant others and work to protect the weekend! Give the XYL a new credit card!





BC - Planning

Set goals

- •Even if you don't win, you can still set achievable goals that will motivate you and give you satisfaction when they are achieved.
- •Goals can be a point level, a QSO or Mult target, certificate, or just to have fun.
- Choose your entry class.
 - •MM just to make points for the club, and so any station can run and have fun
 - Single ops choose between SO and SOA (use DX cluster)







HamXposition

BC - Band Planning

- Use propagation predictions from W1HIS to figure out most productive operating times.
- Majority of contacts will be to Europe.
- Identify best propagation times and bands to major population areas like VK/ZL, JA, PY/LU, and Middle East.
- Identify Gray line times for your location, and figure out target DX locations for Gray line openings.
- Get on the air 28 days before, and the week leading up to the contest, to check what propagation is going to be like.





HamXposition

BC - Band Planning

- Make notes of times to check for openings to known important DXpeditions.
- Make a list of DXpeditions, especially the YCCC ones!
- Your band plan should show bands versus hours. It should show what bands should be running, what should be S&P with rare mults, and what bands are probably dead.
- Check last year's log stats to help figure when/where, but factor in changes to propagation







BC - Operator Plan Ham Xposition

- Create a 48 hour operator sheet
 - •For single-ops with limited time, figure out best times to operate to maximize score.
 - •For Multi-ops this should include the station number or band.
- Publicize this to your operators and update it. Everybody wants the 20m Saturday morning run – but you need ops throughout the contest. You need to manage that – sharing the schedule will show your ops when they are needed most.





BC - Practice

Spend some time 'tuning up' your CW skills with these CW Pileup trainers:

VE3NEA's Morse Runner:

http://www.dxatlas.com/MorseRunner/

JE3MAS's PED

•http://www.sk3bg.se/contest/softped.htm

■DL4MM's RUFZ

•http://www.sk3bg.se/contest/softrufz.htm#RUFZ

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BC - Sleep Plan

- Have a sleep plan.
- You can't store up sleep but you can be well rested.
- Take Friday afternoon off from work and get a nap.
- Sleep in 90 minute cycles.
- Set two alarms, one of them battery powered.
- Don't sleep the same time both nights stagger your sleep so you don't miss propagation to rare mults both nights.
- Use caffeine, 5-hour energy, Diet Dr Pepper as needed (but remember, what goes in, must come out)!





BC- Documentation & Labeling

- Make up a one-page cheat sheet for your logger.
 - •How to log a contact, edit a contact, record and use the DVK or CW function keys, save a note in the log, set operator callsign (OPON), send talk message to other stations, pass messages.
- Make up a one-page sheet on stubs/filters
- Label everything clearly. This really helps at 3am Sunday morning!
- Make labels for amplifiers showing preset positions for each band/antenna combination (or buy an auto-tune amp).















During the Contest

BIC - Butt in Chair

 No other single thing will help you more to improve your scores.

It only works if you spend your time making QSOs









Northeast HamXposition

During the Contest

- Execute your plan!
- Is propagation much better/worse than you expected? Make adjustments as needed.
- Check the next higher/lower band to make sure you don't sit on a dying band too long.
- During daylight, stay on highest band open to Europe (general rule)







Northeast HamXposition

During the Contest

- Run if at all possible
- Find clear frequency, even if high in the band
- Try running on bands where you think you can't.
 You'll be surprised.
- If your frequency isn't working, be ready to move. There might be big QRM on your frequency that you can't hear.
- Run, run, run. You can get mults while running, but you can't get a big QSO count S&Ping.





During the Contest

- Understand the scoring. What are Q's and Mults worth?
- CQWW example: You have 1000 QSOs, 100 Zones, 250 countries
- Which is more valuable?
 - •Getting the 40th zone on 20 meters?
- •Working 10 more contacts?







During the Contest

- Understand the scoring. What are Q's and Mults worth?
- CQWW example: You have 1000 QSOs, 100 Zones, 250 countries

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1001 \times 351 = 983,782 points 1010 \times 350 = 989,800 points
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That mult is only worth 2.8 QSOs!

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CONTEST @60 QSOs/hour - 4 minutes
UNIVERSITY @30 QSOs/hour - 7 minutes





Northeast HamXposition

During the Contest

- Don't overeat or drink too much. This is like a marathon mentally, but NOT PHYSICALLY! You don't need to load up on carbs beforehand or guzzle sports drinks. Carbs make you sleepy! Stick to small hi-protein snacks or meals. Save the carbs for just before a nap to help put you to sleep.
- Take short breaks and get some exercise to clear the head, prevent leg problems.
- Have a way to operate standing up for short periods (raise the keyboard, etc).







During the Contest

- At the 24-hour point, start looking for the easy mults. You should work zones 3,4, and 5 on six bands. Work VE on 6 bands, etc.
- By mid-Sunday, you're in the home stretch. Start setting mini-goals and see if you can reach them before the end of the contest, such as the next million points, the next 1000 QSO level, etc
- Don't sit in a pileup for a Caribbean station on Friday night. They will be begging on Sunday afternoon!
- Do whatever you can to shorten the exchange. Send full calls anytime you can come close to getting it right.







During the Contest - Phone

- Figure out the best way to say your callsign.
- If CQing, start with a short one. If that doesn't get any takers, then go to a longer one. No need to send a long CQ when you have a pileup going!
- Breathe
- Consistency & Efficiency
 - •Find a rhythm that suits the conditions/rate
 - Learn not to say, "Uh", "Please copy", "Roger the 5914, you are..."; "QSL, QRZ?"
 - Say your call often almost every QSO
- Answer guys with the phonetics they use
 - Speak Clearly
 - •Go slow to go faster

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During the Contest - CW

- Be consistent
- Let the computer send
- Sending speed depends on conditions
- Cut Numbers
 - Sometimes OK, sometimes not
- Practice
 - •CW is a learned skill that improves with practice

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Pileups Smart Beats Loud!

Northeast HamXposition

Do Call:

- •When doing so will add more to your score than doing something else
- When you need the station
- •When you have a reasonable chance of being able to work him

Don't Call:

- •When he is calling something that is not you ("KC1XX 59935", or "QRZ Asia?")
- •When he is listening outside of the US phone band
- •(Watch out for packet spots, If no other US is calling it might be a clue!)

Don't be a jerk:

- Don't call out of turn
- Don't transmit when he's transmitting





Pileups

- Call when he will hear you
 - When he is listening
 - When someone louder isn't calling
- Call where he will hear you
 - Within his passband
 - Where no louder stations are calling
 - •When grabbing spots from the cluster, use XIT to move your frequency a bit off the pile.
- Call in a way that he can understand
 - Use standard phonetics
 - Select standard to control call length
 - "Kilo One Zulu Mary" or "Kilowatt One Zanzibar Mexico"

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CONTEST







Search & Pounce (S & P)

- If assisted, use point & shoot on bandmap should be able to achieve very good rate, especially first time on the band.
- Use VFOs or Scratchpad Memories to 'stack up' stations; quickly 'leapfrog' through them to optimize timing
- When S&Ping, treat all open bands like one big band - keep going 'around the horn'







Northeast HamXposition

During the Contest

- Avoid any frequency fights with nets or a\$\$#@!&s. It takes too much time; it upsets your flow, and it could give you, YCCC, or contesters a bad rep.
- QRM can be your friend! Often it can cover up rare DX – work through it for the mult!
- When running, be prepared for rare ones to call in – you must believe! As hard as it can be to believe a VU2 is calling you while you mirare running EU, it happens!

CONTEST



During the Contest

- Watch out for phantom rates. If you find a lot of stations coming back to you in a run are giving your callsign, you might be coexisting on the frequency with another loud US station that you can't hear.
- Worse yet, DX stations could be working them instead of you, which means all your Qs are NIL for their logs! If you hear stations calling, QRX a minute to see if they are working another station on the frequency. If so, move!





Focus on Having Fun

 Challenge yourself to make it more fun. Saturday AM on 20 is fun; Saturday afternoon on 10 is more fun; 80 and 160 after European sunrise can be 'less fun'. Find ways to challenge yourself and your ops to make it fun. Use Getscores, find a partner station, and try to compete with them in real time.







During the Contest

- Always keep going! No matter what happens, keep on trucking. If something breaks, switch in the backup gear. If that breaks, run barefoot.
- Don't get distracted by fixing hardware that doesn't work. Swap it out or do without, just keep running!







Accuracy Matters

- Many contests have a penalty for errors
 - Loss of QSO
 - •Loss of QSO + 2x penalty
- Errors happen
 - Focus on yours and how to prevent them
 - Post contest "log washing" is not an acceptable practice
- Know who you are calling
 - •NEVER NEVER TRUST CLUSTER SPOTS!
- Does the prefix or timing make sense for the situation?
- minAsku for repeats if you are not sure CONTEST



After the Contest

- Transfer any correction notes MADE DURING THE CONTEST PERIOD to your log
- The CLUB field of the Cabrillo Log MUST say 'Yankee Clipper Contest Club' (do not abbreviate YCCC)
- At multi-ops, make sure Soapbox indicates % of operators' share goes to the Yankee Clipper Contest Club (and spell it out!)
- Dump a summary sheet (.txt) and a Cabrillo log from your logging program
- Go to www.hornucopia.com/3830score and fill in from summary sheet, post to 3830
- Post your summary sheet to YCCC email reflector and send a copy to scores@yccc.org





After the Contest HamXposition

- Send your log to the sponsor's robot according to the instructions in the rules. MAKE SURE YOU GET A GOOD ACKNOWLEDGEMENT FROM THE ROBOT!
- CQWW DEADLINE -> FIVE DAYS AFTER THE CONTEST!!
- ARRL DX DEADLINE →

CW: February 21-22 (Submit logs by March 28)

SSB: March 7-8 (Submit logs by April 8)

- You can resubmit the log with changes, updates up to the close of the submission period.

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Open Discussion



