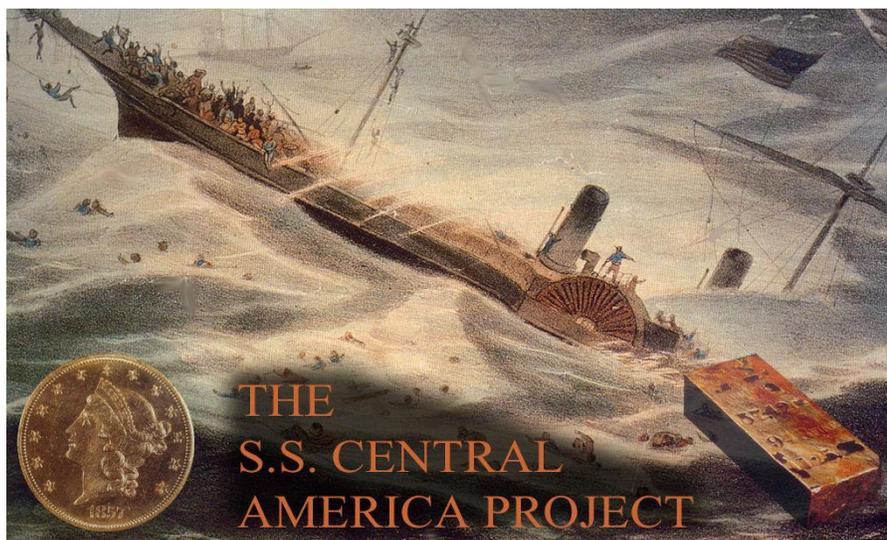




February 2015

## NEXT MEETING IS FEBRUARY 10



The sinking of the wooden hull steamship The Central America during a hurricane in 1857 was America's worst peacetime sea disaster, claiming a loss of 425 lives and over three tons of California gold. WWDXC member Alan Scott, AC7MX, will highlight the adventure in recovering one of the richest treasures from America's past.

**Rob's 125<sup>th</sup> Street Grill, located at 125<sup>th</sup> and Aurora Avenue North**

**Dinner at 6:30 p.m., program at 7:30 p.m. Dinner is \$ 20 including tax and tip**

**Please RSVP your dinner plans to Adam, K7EDX [k7edx@arrl.net](mailto:k7edx@arrl.net)**

## **The President Speaks**

Adam Blackmer, K7EDX

Most likely by the time you are reading this Navassa K1N will be on the air. Based on the quality and experience of this group, we all should have an excellent chance of working them. These are some of the best expedition operators there are.

Looking back over the major DXpeditions in the last year or so, we've all witnessed some pretty awful on-the-air behavior. Do not be tempted to emulate any of this bad behavior or poor operating. If you're not listening you can't hear the operator. Patience is a virtue. Sounds a little cliché I know. If you've never read the DX Code of Conduct you can find it here: <http://dx-code.org/> . I just read it again myself as a refresher.

This leads me to another topic: using the DXcluster as a means for venting frustration or hoping it's a text messaging system straight to the DXpedition operators. I'm guilty. Guess what? It didn't do an ounce of good and it made me look like a whiner. (Most likely because I was whining!) Rarely do the DXpedition operators watch the cluster. If you have a constructive suggestion, send it to the pilot stations if available.

Thank goodness I'm surrounded by so many incredible operators in our club that I can learn from! I certainly do not want to embarrass you or myself. I will therefore strive to improve and hone my operating skills, even if I miss a few rare ones.

Thank you to Rob N7QT and Brian N9ADG for the presentation on remoting. It certainly has led to some spirited debate. Remoting is definitely here to stay in one form or another. If you choose to use any of the technology I hope it enhances the ham radio experience for you. I personally would rather have you be "On the Air" than not at all.

At this month's club meeting, Alan Scott, AC7MX, will be presenting about his experience with the S.S. Central America Project. Last summer at SeaPac, a fellow club member came up to me and said that I had to have Alan come present about some of his life experiences. Like often happens, I knew Alan but didn't "know" him.

From just the information I've received, I am excited! Alan hails from upstate New York where his interest in electronics and ham radio began. He pursued those interests in college and received a B.S.E.E from the University of Cincinnati, Ohio in 1973. At the same time he was employed as a cooperative work-study student with the Naval Ship Research and Development Center (NSRDC) in Bethesda, Maryland.

While working as a full-time employee with the David Taylor Naval Ship Research and Development Center, Alan did three years of post-graduate work and earned his Master of Science in Engineering and Underwater Acoustics. Later on he joined the Hughes Aircraft Undersea Systems Laboratory in Fullerton, California.

In 1980 Alan started his own engineering consulting practice where he did projects for both government and private industry. It was this practice that led to involvement in a side scan sonar search of approximately 1,400 square miles of the Atlantic Ocean for cultural deposits. After this project he accepted a full-time engineering position with the Columbus America Discovery Group. Funded by a group of private investors, this team designed a specialized undersea robot that was used to locate and recover a large treasure from American history. You don't want to miss this club meeting!

On March 7<sup>th</sup> the annual Mike and Key Swap Meet will be held at the Puyallup Fair Grounds. I started going to this event more than a decade before I got licensed. I'll be bouncing around between the club booth on the 2<sup>nd</sup> floor and the SteppIR booth, so be sure to come by and say "Hi" at some point. Maybe I'll even find some "new" treasure for myself! As always, we could use some additional help manning the booth. If you're interested please send me an email at [k7edx@arrl.net](mailto:k7edx@arrl.net).

73 and good DX!

Happy Hunting!

## **Random Comments From the Editor**

Earlier this month I had several QSOs with PY0F/PP1CZ on both CW and phone. The operator was excellent so I thought I'd look him up in QRZ.com and find out more about him.

PP1CZ is Leo Ferreira. Leo and his family often travel to Fernando de Noronha Island and Leo operates from the shack of Andre, PY0FF. Leo's page on QRZ.com has many spectacular photos and is well worth your time to visit and see his photos. Here is Leo and his family on Fernando de Noronha:



In addition to many great photos, Leo has penned a piece he calls “A Living Experience” that is also found on his QRZ.com page. With Leo's permission, I reproduce here a portion of his thoughts. Leo apologized for his English but you won't have any difficulty in understanding his message and I have not edited the substance what he says. As you'll see, what Leo has written is quite thought-provoking in this day of instant communications:

#### “A Living Experience”

“It may seem paradoxical, in fact it is, but the more we live in an era of communications, most people no longer interact. Interactions between people today are virtual, no longer personal, not physical.

Last December I was at Congonhas airport in São Paulo, Brazil, coming from a connection, and was astonished to enter the departure lounge and see that almost 100% of people were staring at a screen, a Smartphone, Tablet or PC. What happened to us? Where did we lose the train of history? Where do we go now?

The title of this text reflects an experience I had last week, coexistence with my family. As we are on holiday we visited the place we love, which is Fernando de Noronha Island. There, by one of negligence of a sector or a company, Internet connections, 3G, or anything similar is extremely bad. For residents and professionals of the island, this is terrible, and I recognize this problem. But for us, it was a wonderful experience.

It was of the few opportunities that we did everything together, and without anyone (even me) looking every instant to the Smartphone. Thinking that not so long ago, perhaps less than a decade, and all were connected, but in a much better way. Our interactions were personal, or at least we listened to the voice on the other end. When we went to a bar, restaurant, party, family reunion, we were not all staring at a screen. We looked at each other, laughed, joked, talked. Good times, without sounding corny or nostalgic.

Today what I witness is that everyone wants to "be in a place to show." We have to shoot, we have to take pictures, we have to post to prove that we were in that place. And for us to "register" these moments, we must draw your Smartphone or electronic device that allows you to record. Lost with this act is interacting with people or places you visit. Were you in that place? Really were? In body and soul?

We no longer see anything, only to take the trouble to record the moment to post on a social network for friends to see and enjoy and say, "Look, he (she) was there." How many seconds will this contemplation? How many in fact see your post, your photo, your footage? How many will really like it?

Proof that almost no one sees a movie until its end, only the "Likes" to leave a friend happy, is a video I saw some time ago on Facebook, where the author had purposely posted beautiful pictures and beautiful places he had visited and, in the last seconds of the video, posted pictures of shocking tragedies that had taken place elsewhere. The purpose was to prove that almost no one sees a video to the end. The video was something like 3 minutes. There was no shortage of rave reviews of the video, saying it was all beautiful and they wanted to be there.

.....

Returning to the experience I had to stay a week without reasonable access to the Internet, I celebrated time with my family for a few days, the same wife and children that live with me in the same house. What should be routine has become a rare event to be celebrated as one who spent a year without seeing them.

I love face expressions, I love to see a smile, to hear the voice, everything personally. I like to look in the eyes, to hug people. I like photos and videos, but I'd rather be with those I like personally. I like technology, and I use it now to share my point of view, my outburst, but I prefer people, more people.

What I like is people!"

## **Mike & Key ARC Electronics Show and Fleamarket**

The 34<sup>th</sup> Annual Mike & Key Amateur Radio Club Electronics Show and Fleamarket is set for Saturday, March 7, 2015 at the Washington State Fair Grounds in Puyallup (110 9<sup>th</sup> Avenue SW, Puyallup, WA 98371). The event starts at 9:00 a.m. and admission is \$ 8 (under 16 is free with an adult). Two floors with 44,000 square feet of stuff you can't live without (kinda like shopping at Costco). Talk-in on 146.82/22 (PL 103.5). To reserve a table, contact Dink, N7WA, at [dmdink@clearwire.net](mailto:dmdink@clearwire.net) or [n7wa@arrl.net](mailto:n7wa@arrl.net) or 253-631-3756.

## **2015 International DX Convention (Visalia)**

The 66th International DX Convention, sponsored by the Northern California DX Club, is now open for Registration.

The meeting will be held from April 17-19, 2015 at the beautiful Visalia Convention Center in downtown Visalia, CA.

IDXC, the premier DX Convention in the United States, is attended by more than 800 attendees looking to improve their skills, their stations and their connection with fellow DXers.

### **Convention Highlights:**

- Full day of training on Friday, April 17, 2015: Contesting and DXing Techniques
- Friday Evening Dinner Options: TopBand, IOTA, and Contesting
- Open DX Forum
- 20 DX and Technical Seminars
- 35-40 Exhibitors in large Exhibit Hall

- QSL Card Checking
- Great Raffle Prizes
- Eyeball QSOs with DX Friends
- Excellent Keynote Speakers
- Access to great California destinations for pre- or post-convention Vacations

Please Register Now: <http://dxconvention.com/pages/registration.html>

We intend to make IDXC 2015 the best DX Convention ever, and hope you'll be able to join us.

Sincerely,

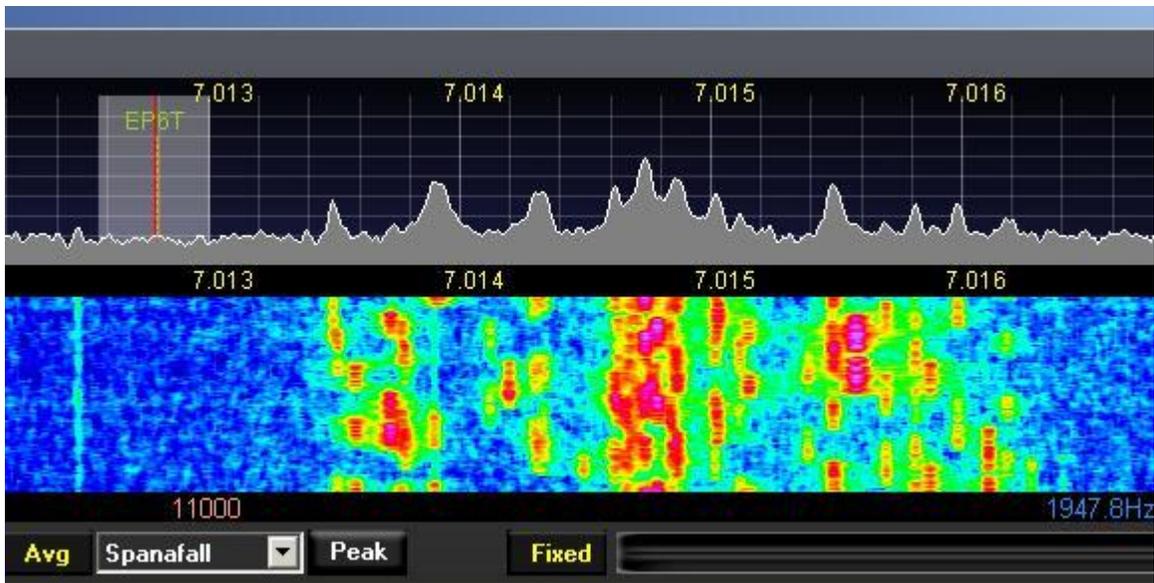
John Miller, K6MM  
Kevin Rowett, K6TD  
Rich Seifert, KE1B  
IDXC 2015 Co-Chairmen

## **Visual EP6T**

Mike "Dink" Dinkelman, N7WA

This year, I broke down and got myself a new radio – a K3. It's quite a change from the 20 year old technology of my FT1000MP. I've played with others over the years but it's nice to have one of my own. One of the things I was looking forward to was getting pan-adaptor capability. Not with a P3 but with an LP-PAN. I figure many of you are already way ahead of me on this but I think this will be an asset to my contesting. Just the little I played in the CQWW 160 gave me a greater sense of what was going on around me.

The other interesting use of the pan-adaptor is for pileups. I really don't DX much--it's more of an opportunity thing than a chase for me. Still, I happened to be playing with the pan-adaptor while EP6T was on 40M. I took the accompanying screenshot. I feel for the operators on both ends. Me? No, I didn't even bother.



## A Final Thought on the EP6T DXpedition

The DXpedition to Iran—EP6T—is now in the books. Those books don't paint a pretty picture for DXers in North America and especially for those of us in Zone 3. Of the 70,000 or so QSOs, fewer than 10% were with North America stations. Meanwhile, stations in Europe had it easy: the Club Log leaderboard for the World shows that the guy in the Number 1 position had 24 QSOs (literally every band and mode) while No. 100 had to be content with only 20 QSOs. There was a lot of whining and worse on the clusters and reflectors. It's easy for those of us who weren't there to complain. Of all the stuff I've seen, I think Carl, N4AA (publisher of QRZ DX and the DX Magazine) said it best:

Give these folks the benefit of the doubt. They got there, they made almost 70,000 contacts, even if you might not be among them. They planted the ham radio seed with government officials, if I read the emails right. Because this group did get there and apparently made a good impression on the government officials, there may be more EP stations on the air in the future. Remember, YOU were not there. YOU can't know what the team was experiencing. Give them a break. Thank them for going. QRZ DX, January 28, 2015.

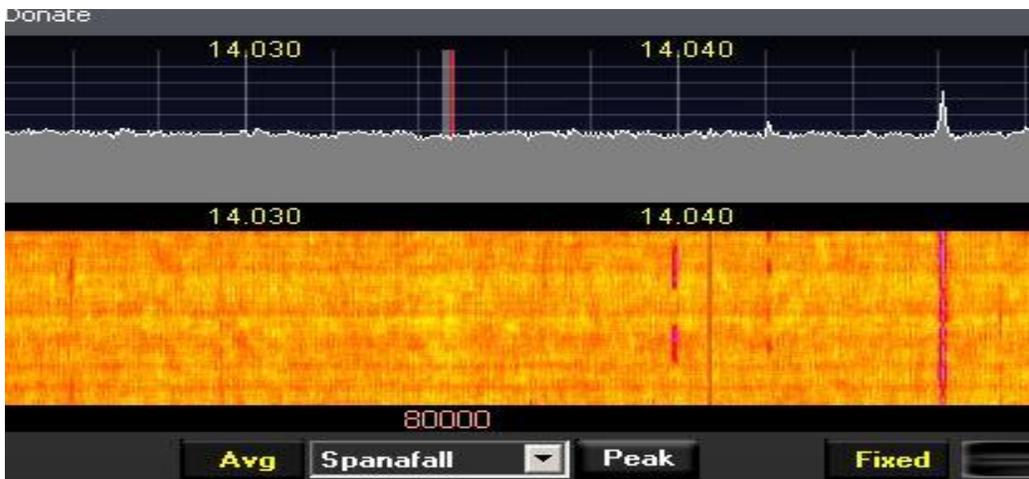
# ARRL Board Adopts New DXCC Rules

After a process that began two years ago, the Board of Directors of ARRL adopted new rules governing remote operation for DXCC and for ARRL-sponsored contests for six meters and above. You can find the details at <http://www.arrl.org/news/arrl-board-okays-changes-to-dxcc-program-vhf-and-above-contesting-rules>

## One Noise Problem Gone

Mike "Dink" Dinkelman, N7WA

One of the nice things about living out in the rural zone is no neighbors and fairly quiet conditions (certainly better than when I lived in downtown Kent). For the past couple of years, I have had an intermittent noise issue. It comes on at all hours and goes away just as suddenly. It can stay around for minutes, hours, or days. It was to the north because the beam really picks up the rise in the noise floor in that direction. My last major event with it was CQWW CW on Saturday morning. It really put a crimp in my European run, though it did go away in the afternoon.



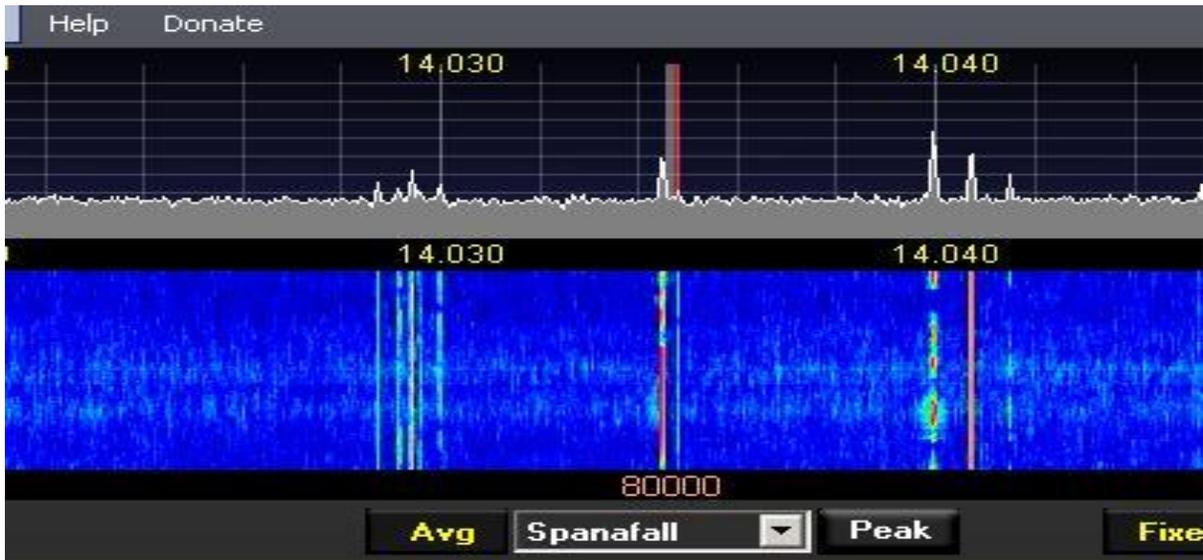
With my new pan-adaptor, it became very evident that something bad was going on and I resolved to investigate. I pulled out my ol' Mighty Fine Junk Power Line Noise Meter. After I fixed a couple of cold solder joints and got it working again, I headed north. I didn't have to go far. About a mile north of me, the meter was pegged and I couldn't keep the earphones on for fear of going deaf. I had a choice of about half a dozen poles. It was dark and we don't have street lights but I decided to walk the poles, shaking guy wires wherever I could. I could actually move one of them about a

foot in any direction... and the noise stopped! Looking up, I could see a tiny arc in the dark as I moved the guy around. I left the guy in the “noise-off” position and headed home to get a flashlight so I could get the pole numbers and make a report to Puget Sound Energy.

I knew that any breeze could bring back the noise and it happened four days later. This time it was daylight and I took some rope and my camera. The guy wire was actually touching the overhead wires. Though the wires are insulated, you could see where the insulation has been worn away. It looks like part of the wire itself and part of the guy wire grip have also been eaten away.



If there wasn't an insulator just inches under the contact point, the guy itself would be hot. I tied the guy wire so it came away from wire and took some pictures with a telephoto lens. As of a week later, it remains uncorrected but, at least, I know how to fix the noise.



Noise Fixed

## WWDXC DXCC Ladder

Jim Rockey, WA7SRZ

The WWDXC DXCC Ladder is now on the website. You can find it by clicking on “DXCC Ladder” on the homepage or by going to <http://www.wwdxc.org/dxcc-ladder-2/> and clicking on “click for dxcc ladder” The Ladder is published in the Totem Tabloid once a year in the January issue. Please send your updates to me at [roccoj1@frontier.com](mailto:roccoj1@frontier.com).

## Contest Activity Report February 2015

Mike “Dink” Dinkelman, N7WA

Hope your 2015 is shaping up to be a good year for you. There was plenty of activity in the contesting realm. (You DXers have been busy too--sure was a lot of chatter over the EP6T.) I headed down to Guy, N7ZG's on Harstine Island along with Chuck, N7BV from Sequim and we had ourselves a Multi-op for the CW NAQP. It was fun. We didn't do as well as we might have liked but we didn't do badly either. I darn near messed things up thinking the test didn't start until 11AM. It's good that Chuck straightened me out only a couple minutes late. The Seahawks/Carolina game was a definite distraction which, fortunately, turned out OK but it was really hard not to look away from the radio. That's probably one time we could have wished that multi's didn't get a full 12 hours of operation.

## ARRL RTTY Roundup

Call	Score	QSOs	State	Countries	80	40	20	15	10
<b>M/S HP</b>									
K7BTW	144,057	1549	57	36	93	255	227	700	274
<b>Single Op LP</b>									
AB7R	35,003	493	55	16	0	102	164	126	101
KX7L	6,624	138	37	11	29	33	7	45	24

## ARRL Roundup RTTY Soapbox

**KX7L:** The HR50 amp was down for repairs, so I had to run this one barefoot with the KX3--too bad there's no QRP category! Surprisingly, 40m seemed to be much more fruitful than the higher bands - sigs on 20-10 seemed a bit on the weak side - hardly anyone over S9. Still, a pleasant surprise to work EI7M on the first call with 12W. Thanks for all the QSOs!

**AB7R:** Limited chair time but still fun. Could not find VT anywhere. Also missed about 6 VE sections.

**K7BTW:** Conditions not too bad Saturday, but Sunday the K went up to 5. This is a 36 hour contest of which you can operate 24. We went until 80m slowed down about 11:30 PM Saturday and started again about 5:30 AM Sunday. Had we known that conditions were going to deteriorate, we would have kept going longer Saturday evening. The first 3 hours or so Sunday morning were terrible.

Our QSO total was up a bit, but with very few EU Qs our mults were down. The result was a little lower score than last year. We only had 7 mults from EU, 5 from AS, and 1 from AF. We did work all states. I urge all of you who contest to install the new N1MM+, if you haven't done so. The networking with this program is user friendly, believe it or not. All you do is click on a drop down menu item and connect to your network. No looking up IP addresses or anything. During the contest, our 3 computers stayed connected without ever needing to be reconnected.

The program ran flawlessly except for one time when I made an operator error and had to re-boot. That was at the start of the contest, and we never had another glitch. That has NEVER happened before.

## NAQP CW

Call	QSOs	Mults	Time	Score
<b>M/2 LP</b>				
N7ZG	1461	229	12	334,569
<b>Single Op LP</b>				
K7RL	1154	228	8.5	263,112
AB7R	767	211	9.5	161,837
<b>Single Op QRP</b>				
K7HBN	220	110	7	24,200

## NAQP CW Soapbox

**K7HBN:** I like this format and contest length (age related). NFL playoffs, especially the SEAHAWKS game, took precedence over CW at K7HBN today.

**K7RL:** Love this contest! Great operators, high rate, and excellent participation make this one of my favorites. The only problem is this year's edition was on the same day as the Seattle Seahawks playoff game against the Carolina Panthers. Turns out it was worth taking the extra time off in the middle of the contest. Go Hawks!

Really good conditions, generally speaking. 10M was good, but somewhat spotty. 20M was better towards late afternoon. Like N6RO mentioned, 80M/160M didn't get cooking until the last hour. Given my limited operating time, I just enjoyed the rate and didn't try to move mults. Congratulations to Pat, N9RV, and Steve, N2IC, for super scores! Thanks to all for the Qs and another fun NAQP.

**N7ZG:** This year, we reconstituted an old team (N7ZG, N7WA, N7BV) down at N7ZG's place on Harstine Island to play in the M2 category. Networking problems kept us off the internet but we had a blast anyway. We would rotate each hour from radio to radio, then one guy gets an hour off before rotating back on.

I can't speak for the others but after two hours of intense operating, I can use a break and it did get intense at the start with steady rates over 100 and momentary peaks above 250. Ten and 15M were in fine form. Twenty seemed slow at the start but I

think that's because everyone was in the upper bands. I think we finally got hang of the mult passing procedure. We managed to pass quite a few successfully. My thanks to those who took the time move to another band. We even had one come back for a second try!

This test was, unfortunately, scheduled for the same day as the Seahawks playoff game. Each of us got to watch a portion of the game during the rotation and I could see the TV from one operating position while I called CQ. I think I was lucky enough to see most of the fun stuff. Chuck, N7BV, left another team of guys up at his place in Port Angeles (using his call). Sounds like they beat us handily. Hats off to that team. We can never have too many teams in the area. Go Hawks!

### **NAQP SSB**

<b>Call</b>	<b>QSOs</b>	<b>Mults</b>	<b>Time</b>	<b>Score</b>
<b>Single Op LP</b> K7RL	1432	238	10	340,816
<b>Single Op QRP</b> NN7SS	228	103	6	23,484

### **NAQP SSB Soapbox**

**NN7SS(K6UFO):** First two hours on the finicky 10 meter band. Signals rapidly up and down. Could hear but couldn't work the close-by CA, NV, OR, UT ... Then a break to check for the EP Iran, but not working USA yet. Took a lunch break, then I search and pounced up 15M and 20M.

Another long break for a walk, dinner, and listen again for EP Iran. Finally worked him on RTTY.

Then a S&P slide down 40M and 80M. I made my promised 200 QSOs and was ready to call it quits - but it is just crazy fun to try QRP Phone on 80M and 160M. Sure is tougher than CW. Some guys hear you, most guys don't.

**K7RL:** 10M and 15M were much better than I expected. First three hours averaged 200 Qs per hour. That was a blast. Then it was time to QSY to 20M. Unfortunately, I kept getting kicked around the band by heavy QRM and my rate suffered trying to find a clear frequency. 40M was the money band.

My biggest mistake of the contest was leaving 40M too early for 80M. I knew 80M was going to be tough, but I certainly wasn't ready for the brick wall that awaited me. Stubbornly, I kept trying to move guys and make something happen, with little success to show for it. That huge waste of time probably cost me around 100 Qs.

160m isn't worth talking about.

Congratulations to N9RV on a monster score! Wow! Congratulations to K0EU and K5TR for great scores too. Thanks to all for the Qs and another fun NAQP Saturday.



**N7BV and N7ZG at 2015 NAQP SSB**

## **CQWW160 CW**

### **Single Op LP**

<b>Call</b>	<b>QSOs</b>	<b>State</b>	<b>Countries</b>	<b>Time</b>	<b>Score</b>
K7SS	136	36	4	6	13,960
N7WA	38	17	0		1,598

## **CQWW160 CW Soapbox**

**N7WA:** Just playing - loaded up the 80M vertical

### **DX Info Sources**

John Owens, N7TK ([jcowens1@comcast.net](mailto:jcowens1@comcast.net))

Discovering what countries (sorry, “entities”) are currently operating on the bands and getting a confirmation (QSL or LOTW) once you work them has become easier in one sense with the flood of electronic information and more difficult in another sense, as the amount of available information is almost overwhelming. Below are some very useful websites that will help solve these problems. If you have other sites that you have found helpful and think should be on this list, please send the info to me at [jcowens1@comcast.net](mailto:jcowens1@comcast.net) and I’ll include them in future issues.

#### **Useful DX Sites**

The Daily DX ([www.dailydx.com](http://www.dailydx.com)) (subscription service but can’t be beat for timely info)

The DX Zone ([www.dxzone.com/catalog/](http://www.dxzone.com/catalog/))

Internet Ham Atlas ([www.hamatlas.eu](http://www.hamatlas.eu))

#### **Announced DX Operations**

DX World (<http://dx-world.net>) (look for the “DXW Weekly Bulletin”)

NG3K Amateur Radio Contest/DX Page ([www.ng3k.com/Misc.adxo.html](http://www.ng3k.com/Misc.adxo.html))

DXing Info ([www.dxing.info/dxpeditions](http://www.dxing.info/dxpeditions))

Ohio/Penn DX Bulletin ([www.payays.com/opdx1044.html](http://www.payays.com/opdx1044.html))

#### **QSL and Manager Info**

Pathfinder (Pathfinder.exe) (<http://www.dxlabsuite.com>) (Click on QSL Info)

QSL Manager Lookup ([www.IK3QAR.it/manager](http://www.IK3QAR.it/manager))

K3WWP QSL Routes ([http://home.windstream.net/johnshan/dx\\_ss\\_qsling.html](http://home.windstream.net/johnshan/dx_ss_qsling.html))

HamQTH Callbook ([www.hamqth.com/](http://www.hamqth.com/))\_

ORCA DX and Contest Club ([www.orcadxcc.org/index.html](http://www.orcadxcc.org/index.html)) (Good access to QRZ.com)

Global QSL (Card design and bureau QSL service-print and mail) ([www.globalqsl.com/](http://www.globalqsl.com/))

## Announced DXpeditions

Here are the sites and bulletins I look at to find out what's happening on the bands:

The Daily DX	<a href="http://dailydx.com">dailydx.com</a> (subscription and free trial available)
DX World	<a href="http://dx-world.net">dx-world.net</a> (free)
NG3K Page	<a href="http://www.ng3k.com">www.ng3k.com</a> and then click on ADXO at the top (free)
DX Summit	<a href="http://www.dxsummit.fi">www.dxsummit.fi</a> (free)
DXScape	<a href="http://www.dxscape.com">www.dxscape.com</a> (free)
DX Heat	<a href="https://dxheat.com">https://dxheat.com</a> (free)

## February 2015 Contest Calendar

In case anyone reading this is not aware of it, Bruce Horn, WA7BNM, has a website that is truly a one-stop place for all things related to contesting. The link is <http://www.hornucopia.com/contestcal/> or just Google "WA7BNM" and the first hit is Bruce's site. With just a few clicks, you'll find everything you need to know about every contest, large or small. I find it very useful when I hear a station that I want to work that is obviously exchanging contest reports and I don't know the exchange.

## DX Packet Alert Network Frequencies

Bob Nielsen, N7XY ([n7xy@clearwire.net](mailto:n7xy@clearwire.net))

K7EK-1 - Spanaway (DX Spider Node), K7EK sysop. Telnet to: [k7ek.dyndns.org](http://k7ek.dyndns.org), port 9000

RF: 144.91 MHz - Connect to network node W7DK-5, then type DXC.

145.01 MHz - Connect to network node SEA, then connect to network node K7EK-5, then type DXC.

W7PKT Auburn (DX Spider Node) 145.73 MHz, KA7CSE sysop.

Telnet to w7pkt.net, port 7300

DX Spider user documentation is available at

[http://wiki.dxcluster.org/index.php/DXSpider\\_User\\_Manual](http://wiki.dxcluster.org/index.php/DXSpider_User_Manual)

Lee Sawkins, VE7CC, has written a versatile Windows user program that works with AR Cluster, CC Cluster or DX Spider nodes. It can be downloaded from <http://www.bcdxc.org/ve7cc/default.html>

## Totem Trader

**WANTED:** Looking for a **Kenwood MC-50** hi/low impedance microphone. Must be in very good condition with no modifications. I've got my TS-520SE and TS-830S radios ready to go back on the air. Now I need a good mic to go with them.

Please call Dale, WU7X, at 509-844-4560 or email me at: [dale.avery@comcast.net](mailto:dale.avery@comcast.net)

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### FOR SALE:

**West Mountain CLRspkr ClearSpeech® DSP Noise Reduction Speaker--\$115.00** (Currently sells for \$219.95) (Eham score of 4.5 – 15 reviews). Can be used in shack or mobile

**Turbo Tuner 2 (for Icom)--\$150.00** (Currently sells for \$309.00) (Eham score of 4.5 – 160 reviews)

**Model: Turbo Tuner (Original) (for Icom)** (Eham score of 4.5 – 160 reviews)  
\$100.00

**Scorpion Antenna SA-680 (10-80 meter antenna)--\$425** (Currently sells for \$849.00) (Eham score of 5 – 94 reviews)

Contact Mel, N7GCO at [N7GCODX@gmail.com](mailto:N7GCODX@gmail.com)

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**FOR SALE: Optibeam OB12/6 / M2 Orion 2800 Rotor / Green Heron RT21 controller..... \$3K ---** If someone wants just the Optibeam for \$1700 I think I have someone interested in the rotor and RT21. The Optibeam new price is presently just under \$3K plus shipping from Germany. Build quality on these antennas are far better

than anything else I have seen. This model covers 40 - 10M (less 30M). All three items are about 7 years old.

All the green heron wireless gear: base unit, two indoor remotes (may have three, not sure) and two outdoor remotes with bias T option and two inside bias-T boxes to inject the control voltage on the coax. includes external 2.4G yagi to pole mount for one of the outside boxes if necessary. All the GH wireless items are potentially spoken for by Rob. \$600

KK1L 2x6 external antenna switch: \$200

HyTower vertical: \$350

Elecraft W2 watt meter with one sensor - \$225

Or \$3700 for everything except the Green Heron wireless boxes.

Greg AB7R 360-320-3436

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**FOR SALE:** Have a mint condition **Heathkit SB-221** that is fully modified and on-air checked that I want to sell locally. If interested, I can provide additional information if you contact me at 425-745-0577. John Owens, N7TK

**FOR SALE:** Bencher Butternut HF-9V Vertical Antenna (10M - 80M) with Counterpoise Kit. In excellent condition, but is surplus to my needs now. It is one of the best vertical antennas made. \$325 for both. John Owens, N7TK—425-745-0577.

TOTEM TABLOID  
Western Washington DX Club, Inc.  
P.O. Box 395  
Mercer Island, WA 98040

### **The Totem Tabloid**

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