



March 2015

NEXT MEETING IS MARCH 10



James Brooks, 9V1YC, is a DXpeditioner, contest operator and producer of professional videos. He has produced an amazing video of the WRTC 2014 experience and it will be shown at the March meeting. You don't want to miss this!

Rob's 125th Street Grill, located at 125th 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

The President Speaks

Adam Blackmer, K7EDX

This coming Saturday, March 7th, is the annual Mike and Key Flea Market at the Puyallup Fair Grounds. I have many fond memories of this event, dating back to my Junior High School years. It played a pivotal role in my quest to become a ham and even led to my current job at SteppIR Antennas. I'll be bouncing around between the SteppIR booth and the WWDXC booth so please make sure to come by and say "Hi" to me and whoever else is manning the club booth. If I'm not at either, then I am hunting for something I think I need. The Flea Market is one of the highlights of my year, just for the fact that I will see so many of my radio friends!

I hope you were able to log the K1N Navassa Island DXpedition at the beginning of the month. The team did a fantastic job and finished with around 140,000 QSOs, of which about 30,000 were unique. Thank you for doing such a fine job of operating! Be sure to visit the K1N website at: www.navassadx.com. There's a link to an interesting interview of Glen, W0GJ by the Mediterraneo DX Club. Thank you to the K1N Team.

The club has been getting a number of DXpedition funding requests. Hopefully E3 will be on the air this month. I haven't seen it verified yet, but I know Zorro, JH1AJT was working hard to make it happen. [Ed. Note: Eritrea is supposed to start up on March 6]. The highly most-wanted expeditions appear to be coming in the Fall of this year. We have funding requests for Heard Island and also the South Sandwich and South Georgia Islands. Hopefully they both move forward.

As many of you know by now, we lost two of our club members in the last month--Joel Clark, W7EPA and Clay Brown, K7HC. I didn't know Joel, but I know many of you did and spoke highly of him. I did know Clay. Since he lived in Eastern Washington, I mainly ran into him at the DX Conventions. He was a truly nice guy who seemed to always have a great attitude. When it came to DXpeditions, Clay was very generous. If you ever looked up who helped fund these adventures, you would see his name consistently since he got back on the air. May they both rest in peace.

I hope to see you this weekend!

Random Comments From the Editor

The K1N DXpedition to Navassa Island is now history. After 15 years of planning and seeking permission, Bob, K4UEE, and Glenn, W0GJ, assembled a team of the very best operators, each of whom paid plenty of money, went without real

showers for two weeks and ate MREs (military for meals ready to eat) to bring all of us a chance to work a country at No. 2 on the Most Needed list. I hope you all were able to work them at least once and hopefully you filled all of the band slots you needed for the DXCC Challenge. I also hope you'll be generous with your contributions to the project—this was a very expensive DXpedition and I'm sure they will appreciate any contribution.

I subscribe to the Top Band reflector (topband@contesting.com) and, as a newcomer to 160, I've learned a lot about how 160 works and about the "best" antennas for that band. A fellow with a General Class license who described himself as a "casual" DXer posted a lengthy and pretty nasty comment on the reflector, complaining about not being able to work K1N on any band, let alone 160, and about how he had no notice that the DXpedition would be on, how they never listened in the General bands, etc. As you might guess, that prompted a lot of replies. Here is what I think was the best reply, and it has plenty of advice:

“Note to All Stateside K1N Detractors

Here are some things that will hopefully be in the DXing for Dummies book:

1. K1N is over. I am not convinced that any group anywhere did it better. That applies to all bands, and specifically 160 meters.
2. NEWS FLASH! There will be other DXpeditions in the future. Only 2 days notice??? We had several months notice of the proposed K1N operation. If you are not subscribed to the Daily DX, the Weekly DX, the NJDXA bulletin, the ARRL DX Bulletin, the KB8NW DX bulletin, some of which are free, you should look into it. Engraved notices were not sent out and it is your own fault for not having enough notice.
3. Missing K1N, which was basically in your back yard, should be part of your "lessons learned" after-action report. If your station could not make a K1N contact, it was either an operator malfunction or your station needs some work.
4. If you do not have an Extra Class license, upgrade it or stop complaining about it. No code licenses have been here for years. CW is no longer a barrier to upgrading your license. There are 11 year-old kids with Extra Class licenses. Take your radio club's next license upgrade class. If I were you I would sign up for that class TODAY. Think of it another way: if you can operate CW, that gives you 9 more band

opportunities where you can work them. Why limit yourself needlessly? Bonus: even more band opportunities are available if your radio does RTTY.

5. No antenna for 160 or 60 meters? Start building your antenna TODAY.

6. No match box to load your antenna up on other bands? Buy or build one TODAY.

7. If your XYL is nagging you about Saturdays spent listening to the DX bands? Send her out to a spa for the day you want to devote to DXing. You might be surprised to find her asking you if you have any other days you would like to devote to DXing. In some circles this is called a win-win situation.

8. If your radio does not do 20 kc splits, TODAY would be a good day to upgrade your radio, or buy or build a VFO. Or live dangerously and read the manual for the radio you have now.

9. Be there!! You can be right at your radio and still miss announcements of where the DX is listening. If you are out of the room listening on a speaker 15 feet away, it is easy to miss the DX station announcing he has shifted from listening 5 kcs up to listening 5 kcs down. Listening from across the room almost assures that you will miss announcements of this type, especially in a heavy DQRM situation such as EU only, NA only, ATNO, QRX-5 fueling generator etc.

10. Requesting or suggesting the DX station should go to another band, general sub-bands or other requests via DX Watch or sending a thank you on the packet cluster? Please know that the individual operators on most DXpeditions are not watching the DX cluster nor do they have DX Watch on their cell phone even if they had enough signal to do so. Further, most of the American DX ops do not know all of the sub-bands by memory and for sure, the DX ops from other countries do not know and could not care less about the general sub-bands.

11. Just because a website mentions or does not mention a band, or sub-band or a band they plan to concentrate on, does not mean they will or will not cover it. Radios and antennas fail or may have to be shared between several bands. If you read the pre-DXpedition frequency plan for K1N, their initial plan was to work 10M SSB and not do any 10 CW. Even so, I noted a significant amount of QSOs were made on 10 CW. Again, you have to BE THERE. You snooze? YOU LOSE !!!

12. Most importantly of all, if you did not CONTRIBUTE to a specific DXpedition, I really think you should refrain from complaining about it. A list of donors can often be found on the DXpedition web site by clicking on the donor button.

13. If you are a casual weekend DXer with a casual station, you should not be surprised or disappointed when you get CASUAL RESULTS.

After reading this if you are still looking for someone to blame when you miss the next DXpedition, take a long look in the mirror.”

The Eritrea DXpedition is scheduled to begin on March 6 (March 5 local time, I think). Another one with a tough West Coast path but Paul, N6PSE, is one of the operators and he always pays special attention to working West Coast DXers. This is a new one for me on CW (8 left) so you'll hear me in the pileups.

Lots of stuff in this month's Totem Trader, so take a look.

Don't forget: Daylight Savings Time starts early Sunday morning. Spring ahead—and good DX.

Membership News

Jim Hadlock, K7WA

The January Membership Renewal letters went in the mail a few weeks ago; if you received a notice, please consider renewing your Active Membership for 2015. If you didn't receive a letter, you're up to date at least through June 2015. Annual dues allow the Club to support DXpeditions and enable the club to put on programs for the monthly meetings, sponsor awards for the ARRL and CQ DX Contests, put on the annual picnic, and a host of other Club activities. We will have an information table at the Mike & Key Flea Market in Puyallup on March 7th. Come by and say "Hello"!

This month we note the passing of two Club members: Clay Brown, K7HC, and Joel Clark, W7EPA.

Thank you for supporting the Western Washington DX Club!

Working K1N the Easy Way

Sam Rubin, WC7Q

I was camped down in the Yuma, AZ area, out in the desert on the California side of the line, when K1N came on the air. My only setup was in my car, where I had my TS 480 and mobile Hy Gain antenna with the 20 M whip. I heard them come on the air but knew it was futile to even try until it was close to the end of their stay. On Feb 9th about 1640, I went out to my car and turned the rig on while waiting for the XYL to come out so we could go into town to shop. There he was on 14.023 calling CQ with no responses. I started calling and for about 15 minutes he received no calls from anyone and he was loud. About that time the wife came out and we started driving towards Yuma. I continued to call and by then he had responded to about two repeat callers--and then I heard my call come over the airwaves and I nailed him on the Arizona side of the line. My wife wondered when I shouted out "I got him." Of course the next day I checked his log and, sure enough, there I was.

Mike & Key ARC Electronics Show and Flea Market

The 34th Annual Mike & Key Amateur Radio Club Electronics Show and Flea Market is set for Saturday, March 7, 2015 at the Washington State Fair Grounds in Puyallup (110 9th 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 or 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

Reserve Early for the Pacific Northwest DX Convention

As a result of the fine efforts of the Convention Chairman, Rich, W6RS, you can now reserve a room at the Everett Holiday Inn for the 2015 Pacific Northwest DX Convention, to be held August 7-9, 2015 in Everett. Here are the details:

Guests may book into the Pacific NW DX Convention rate by:

- Calling **1-425-339-2000 ext. 1** and requesting rate code **DXC** or asking for Pacific NW DX Convention rate.
- If you have any questions, please contact me directly via email at dhendren@hieverett.com or **425-789-5709**

WDXC DXCC Ladder

Jim Rockey, WA7SRZ

The WDXC 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.wdxc.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.

Contest Activity Report March 2015

Mike "Dink" Dinkelman, N7WA

There has been some nice weather this past month (unlike other areas of the country). Makes it hard to sit in front of that radio sometimes. I appreciate those who got on and made a few points for the club. We had two Northwest Trophy tests in February: the CQWW RTTY WPX and the ARRL DX CW. This month there will be the ARRL DX SSB edition and the CQWW WPX SSB.

CQWW WPX RTTY

Call	QSOs	Prefixes	Op Time	Score
M/2 HP				
WR5J (@N7BV)	2,400	812	48	4,629,218
M/S HP				
KZ1W	1,515	604	48	2,602,032
SOAB HP				
W7VXS	752	405	23	644,760
K7EG	166	144		76,896
SOAB LP				
W7OM	615	380		537,320
W7TSQ	100	80		20,664

SOAB(TS) LP

KX7L 214 152 11.5 67,640

CQWW WPX RTTY Soapbox

K7EG: My usual casual participation. Enjoyed using my IC-7800/Alpha 9500 combo first time in a contest. My RBN SDR skimming radio was uploading 500 spots at many times from seven bands simultaneously.

KX7L: Valentine's Day put a bit of a crimp on the operating on Saturday, plus some awfully nice weather pulled me away from the rig on Sunday, but still had a lot of fun.

WR5J (@N7BV): We got off to a slightly rocky start with the second station deciding it liked the serial number 001 better than incrementing. Our apologies to our first few Qs on 10 meters, all with number 1. After several restarts on N1MM we gave up and created a new DB and then everything moved forward at the cost of about 30 minutes.

Propagation was great on 20/15/10M during the day; however 40/80 were a little tougher. Thanks to all the JAs who worked us through the wee hours. There were some exotic call signs showing up. Thanks to everyone for a wonderful contest.

Besides propagation, we had the other main ingredients of a great contest: a great time and great team and we ate really well, thanks to N7BV's wife, Karen.

W7TSQ: Amongst other duties I did manage 100 Qs but it only got me 20,664 points, in spite of 84 mults in the 100 and 37 Qs on low band with extra point count.

KZ1W: Paul, W9PL, Rob, N7QT, Bill, W7VP, Gordon, NW7D, and Grant, KZ1W warmed the ether for 48 hours at the KZ1W Redmond QTH in the CQ WPX RTTY contest. Multi-single, all band, high power. Conditions were good or better, all bands. JAs were numerous, maybe 1/3 of Qs - can't wait for the cards. The log shows WAZ, but I wonder if it will survive checking.

W7OM: Forty meters to Japan and long path were a disappointment with few stations on Saturday, so I slept in on Sunday. I had multiple software problems the week before the contest. Jim, K7EG helped me get it fixed in time for the weekend.
THANKS JIM!

ARRL DX CW

Call	QSOs	Mults	Op Time	Score
SOAB HP				
WC7Q	634	278	19	525,420
KD7H	563	192	21:19	324,288
W7VP	253	102	7.2	77,418
SOAB LP				
W7OM	1,015	269		818,298
W7VXS	117	84	4	29,484
K7ZQ	117	58	7	20,358
SOAB QRP				
K7HBN	479	144	32	206,928
SOSB/15 QRP				
AB7R	101	50	3	15,150
SOSB/20 LP				
N7XY	2	2	0.1	12
SOSB/40 HP				
W7WA	1,113	94		313,860
N7WA	668	78	24	156,312
SOSB/40 LP				
K7WA	50	20		3,000

ARRL DX CW Soapbox

K7EG: Almost made 600 Qs and 400K but ran out of time. Great contest.

K7HBN: Sunday afternoon mini opening to JA was a nice surprise with SFI below 120. After flirting with a couple of other radios I went back to a KX3 and there I will stay.

KX7L: Not a super serious effort here, but still one of the better scores I've had in this contest. I had surprising success on 80m with my peanut whistle station - credit to some good ops is probably due there.

WC7Q: Great test, all bands in good condition and lots of stations on. Thanks for the Qs.

KD7H: First of all, a BIG thanks to N1MM for such a great contest logging program. Most of the time, I ran about 400 watts to a ground-mounted vertical, and I was able to work most of what I could hear. However, my "Compact Carolina Windom" (up about 30 feet, broadside north/south) worked better on 20m over-the-pole signals from places like Kazakhstan and Azerbaijan. Although I really love CW DX contests, I love my darling wife more--so I took time off from the contest to be with her. To my fellow CW testers: Cheers!

K7ZA: Poor conditions on the lower 2 bands let me get my 8 hours of beauty sleep each night!

N7WA: This was the first major test with the new K3 and a panadapter. Gotta admit, having a visual of the band sure helps. It also made me much more aware of how the noise floor moves up and down throughout the night and how many idiots there are out there (sweeping signals and jammers).

Since Saturday was committed to upcoming M&K flea market activities, I could only work the night shift. Even then, I needed "some" sleep Friday night so I wouldn't be a total zombie Saturday. I chose 40M single band. I thought the band was noisy at the start. I worked mostly S&P'd HP Europeans, the Carib, and South America when I could find them. About midnight local, the 100w tier started breaking through and I could run but it was tough sometimes pulling them out. Then you get surprised with a 5W South African coming in loud and clear. (huh?) When the JAs started coming in, I was swinging the beam left and right a lot. (A good problem to have.) I had to pull the plug at 2AM local to get some sleep and couldn't be around for the sunrise. That was with 403 Qs in the bag.

Saturday night was more of the same except the band was even noisier and all the HP stations had been worked. I spent 8 hours getting the next 100 Qs. I would find a spot to call CQ and scan the band with the second receiver looking for anything. Many Qs would come with that second receiver. About midnight local, things perked up a bit and Asia coming in helped too but the body was flagging. I decided to shut my eyes

for 30 minutes around 2AM local. I managed to keep it at 30 minutes too but I could have used more.

Working the European sunrise, I noticed what I thought was grayline enhancement on a lot of 100 watt stations. Certainly I was surprised how long after their sunrise I kept working stations. I resolved to stay on past local sunrise at least that long... and it paid off. I picked up a number of new mults after the dawn had broken (I really wanted to go to bed) including Tanzania. Lo and behold, a number of Chinese stations appeared as well.

I heard Dan W7WA on. I expect he was 40M S/B too and will kill me as usual. <grin> I just keep telling myself... "I wanna grow up to be just like him". It's good to have goals. Some of it was grind but worthwhile in the end - I had fun.

N7XY: This is about as minimal as I can get.

W7VP: First effort with new rig and amp. FTDX 5000 and Quadra. Also used the FTDX 3000 with the Ameritron ALS-600. No SO2R this time though. Had to do a lot of rigging to get everything working right, thus the low total time. Now set up for auto-band switching to the amps and one button tuning to make it easy to change bands and antennas. Looking forward to some SO2R now.

W7WA: Good conditions the first night. Saturday evening was so painfully slow that on several occasions I mulled over whether to pull the plug. I stuck it out believing conditions could improve later in the night (did not happen). I worked about 25 LP Europeans each morning. Some strong LP signals were heard in the mornings from 4O/E77W, S52AW, UA6LCN and a few others. At 1710Z Saturday RT3F was calling "CQ Test" with a good short path signal via the north pole. I called him just to let him know he was being heard to which he dutifully responded "QSO b4" and resumed his CQs. This morning short path opening is not uncommon here in December/January but notable in late winter.

N7BV: Some good props over the weekend. 15M was our money band. Lots of interesting stations including 4J 4X 5R D4 HZ UK & ZS. Thank you for all the contacts.

DX Info Sources

John Owens, N7TK (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 and I’ll include them in future issues.

Useful DX Sites

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

The DX Zone (www.dxzone.com/catalog/)

Internet Ham Atlas (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)

DXing Info (www.dxing.info/dxpeditions)

Ohio/Penn DX Bulletin (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)

K3WWP QSL Routes (http://home.windstream.net/johnshan/dx_ss_qsling.html)

HamQTH Callbook (www.hamqth.com/)_

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

Global QSL (Card design and bureau QSL service-print and mail) (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	dailydx.com (subscription and free trial available)
DX World	dx-world.net (free)
NG3K Page	www.ng3k.com and then click on ADXO at the top (free)
DX Summit	www.dxsummit.fi (free)
DXScape	www.dxscape.com (free)
DX Heat	https://dxheat.com (free)

March 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)

K7EK-1 - Spanaway (DX Spider Node), K7EK sysop. Telnet to: 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

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

FOR SALE:

Acom 1000 1K Amplifier recently renovated by Array Solutions. New tube and vacuum relay. Price \$2,000.

MFJ Model 962D Tuner in very good condition--just a few paint chips on edge of cabinet. \$170.

The Acom is in operation and can be seen by contacting me at 425-788- 5019. Sam, WC7Q

WANT TO BUY: IC 756 PRO II. Please contact me at dank7ss at gmail.com Dan, K7SS

FOR SALE: Icom AT-500 Auto Tuner, Excellent Condition. \$300. Tom, NU7J, nu7j@arrl.net

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.

FOR SALE: From the estate of Clay, K7HC:

Acom 2000a

The Acom 2000A automatically tunes from 160-10 and has protection circuits which are foolproof. The Acom puts out legal limit plus (1500 watts) and the amp can be put in a closet as you only need the 5" by 7" remote on your desk. Set your transceiver to a band and frequency and the amplifier walks right along with you instantly. For a full description of this amp go to www.hfpower.com \$ 5,000 for just the amplifier

W2IHY EQ/EQ PLUS COMBO

W2IHY eq/eqplus combo with Yaesu cables, used sparingly, in good working order. \$500 OBO

Ham IV Rotor

Good working Ham IV rotor and control box. Rotor is clean, needs new hardware. Just put in a new light bulb. Put on an industrial 120v plug, previous user cut ground conductor off. \$ 230 FIRM plus shipping from 46805 to lower 48 only. Comes from a no smoking environment.

ICOM 7700

A one year-old Icom 7700. It is a 10 in both appearance and functions.....everything works just as it should. Non-smoking shack. Clay wrote that "In over 50 years of hamming I have never owned a better radio." Weight and physical size do count and this is a BIG radio....and 65 pounds... The price is \$4,700.00 plus shipping from Phoenix, AZ and will be shipped in the original triple boxes. Custom cover and Nifty manual included.

4L SteppIR 20-6m

In very good condition. Includes 6m passive elements. New price is \$2,285, asking \$1450.

Create RC5A-3 Rotor (have 2)

The RC5A-3 will handle most antennas. It is rated at: 159 Ft/# of Rotator Torque; 1443 Ft/# Braking Torque; 22 Sq Ft of Antenna; and 1540 Lbs. of vertical load. Speed control using silicon control rectifiers allows slow speed without reduction in rotation torque. Rotating spec is constant 60 to 200 seconds per 360 degrees. Reverse delay control (RDC). Delays reverse command to rotor until antenna is at rest. Prevents damage to rotor antenna and tower system. Circular dial indicator, for quick accurate reading of antenna direction. Great circle overlay. Preset for quick setting of antenna direction. Just turn knob to the new heading, the rest is automatic. Won't waste your time holding down the brake lever and wait. This is worm gear driven so no brake to release or get jammed. \$ 500 OBO.

T2X Taitwister Rotator (have 2)

T2X Taitwister and control unit, excellent condition with all hardware and instruction book. \$295 plus UPS shipping in CONUS.

US Tower MA-550MDP

This is a 55 foot tubular tower that is motorized crank up and manual tilt over. It includes the MARB-550 Rotor Base, the MAF-550 Raising Fixture, 3- CX-3M Coax Standoff Arms. The tower is in good condition and most of the nuts and bolts have been replaced. The price is \$2,350 OBO.

For any of the above items, contact Dink, N7WA, at nwdink@gmail.com

FOR SALE:

SunSDR2 DDC/DUC SDR transceiver with WIFI and programmable e-Coder pod
option: \$1,500

KK1L 2x6 antenna switch: \$125 (relay box only, no controller; six pak relay box at Array Solutions runs \$375)

Antenna package: Optibeam OB12/6 yagi, Orion 2800 rotor: \$2,200

Or: Optibeam \$1,400

Orion 2800 rotor \$900

Hi-Z 4-LV2-60 receive array with 4 24ft elements: \$500

Alliance HD73 rotor and controller: \$100

Hygain HyTower: \$275

Yaesu 2600 mobile 2M: \$50 No Mic

ICE RF limiters: \$15 each (two available)

Zero Five heavy duty dipole center insulator/with mast mounting hardware: I bought this to put up a rotatable 30M dipole but never got to it. It is unused. Pick up only or I can deliver to Puyallup in March. \$80 (they are \$199 new)

<http://www.zerofive-antennas.com/heavy-duty-insulated-rotatable-dipole-center-section>

Keyspan USB>RS232 USA-49WG

Excellent condition 4 port serial adapter (one USB to 4 DB9 RS232 ports).

\$50 shipped CONUS

X-Keys 48 with shuttle jog

I have an X-Keys input device with the shuttle jog similar to this one except it is black and has 48 keys. \$40 <http://xkeys.com/xkeys/xk68JSH.php>

For any of the above, contact Greg, AB7R, at ab7r@cablespeed.com or 360-320-3436.

TOTEM TABLOID
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The Totem Tabloid

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