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June
2014

Contesting Tips for Little Pistols

By Dan Zeitlin, K2YWE

A Webinar Courtesy of the Worldwide Radio Operators Foundation

(Due to the length of the webinar, Part 1 will be shown at the June 10 meeting,
followed by discussion)

June 2014 WWDXC
Meeting

Now only \$20, including Tax and Tip!

Robb's 125th Street Bar and Grill
North 125th Street and Aurora Avenue North

Please RSVP your dinner plans to Adam, K7EDX k7edx@arrl.net

June 10, 2014
Dinner at 6:30 - Program at 7:30

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 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>)

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/johnsan/dx_ss_routes.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/)

Editor's Note: Included in John's list is DX World (<http://dx-world.net>). I've visited this site almost every day for the last two weeks and have found it to be a very useful source of DX and IOTA information. For starters, it's FREE, although donations won't be refused. But beyond that, the owners post information 24/7, unlike The Daily DX which takes off every weekend, except for late-breaking news about "big time" DXpeditions. I haven't done a side-by-side comparison but The Daily DX seems to find out about a lot of "casual" operations. Both cover the "serious" DXpeditions. There are 443 web pages on DX World as I write this but the site has a great Search capability—I've tried several searches where I know in advance what the result should be and I've not yet been disappointed. The site has a link to QRZ.com in case you want to check out any of the calls you find. Finally, but certainly not least, the site publishes a once-a-week summary of eight pages that contains a list of DXpeditions, etc. You can find it on the home page titled as "DX Bulletin--The DXW Weekly Bulletin." The bulletin contains information about on-going operations as well as announced operations in the future and updates about previously-announced operations.

I hope my good friend Bernie, W3UR, (the publisher of The Daily DX) won't be disappointed with these words, but I can say that if you subscribe to The Daily DX and regularly visit the DX World website, you can be confident that you'll know all that is to be known about DX operations.

Contest Activity Report June 2014

Mike Dinkelman, N7MA

With the running of the CW WPX this past weekend, we have completed all the tests for the 2014 Northwest Trophy Competition except for the IARU. I have summarized the scores I have collected over the past nine months in the table below. **Please** check the listing for missing or incorrect entries. (I know the AB7R WPX RTTY score is wrong.) Please note that I get scores from 3830 (preferred) and from the WWDXC reflector. **Please** mail corrections to me at N7WA at arrl dot net.

	Sep	Oct	Nov	Jan	Feb	Feb	Mar	Mar	
WWDXC	CQ WW RTTY	CQ WW SSB	CQ WW CW	ARRL RTTY RU	CQ WPX RTTY	ARRL CW	ARRL SSB	CQ WPX SSB	TOTAL
AB7R	61,004	166,208		19,320	252	739,596			986,380
K7BTW	2654406	361,762		185760	501,615	949,605			4,653,148
K7DSE						584,430			584,430
K7CW		50,310	8,904						59,214
K7EG	217,744	106,288	1,010,650	13,884	20,976	616,560	131,400	121,667	2,239,169
K7HBN	34,563	160,083	337,395			204,750	100,980		837,771
K7QQ					1695800				1,695,800
K7RI		2,699,248							2,699,248
K7RL		6,899,624	9,218,044				3,960,180		20,077,848
K7SS		338,528	198,399				160,875		697,802
K7ZA			1,017,296						1,017,296
KD7H		180,493	390,150						570,643
KN7T						64,032			64,032
KT7G						21,420		52,767	74,187
KX7L	217,035		15,675	10,504	143,678	2,184			389,076
KZ1W								3,276,390	3,276,390
N5CR			604,791				307,989		912,780
N7BK		146,816							146,816
N7BV			2,250,560						2,250,560
N7GCO		533,940					393,240		927,180
N7RVD		516,490	459,074			244,398	206,415		1,426,377
N7WA		1,680							1,680
N9ADG			464,579		11,907				476,486
NK7Z					11,748				11,748
NN7SS		37,572	70,518		915				109,005
NW7D	626,780			79,905	453,934				1,160,619
W6SZN		8,415				42,432	279,774	3,534	334,155
W7IJ		1,332,060							1,332,060
W7OLY		58,860	88,050			126,636			273,546
W7OM	605,248	726,293	1,018,770			680,625			3,030,936
W7QN		83,700	130,064			166,782	57,024		437,570
W7TSQ		12,040		185,760	308,864				506,664
W7VJ		3,689,280							3,689,280
W7VV		7,700							7,700
W7VXS	655,576		192,614		884,398	105,120			1,837,708
W7WA		1,085,040	590,679			483,753	487,080		2,646,552
WA7PRC		29,088	18,328					28,400	75,816
WC7Q						17,808			17,808

Total WVDXC	5,072,356	19,231,518	18,084,540	495,133	4,034,087	5,050,131	6,084,957	3,482,758	61,535,480
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7th District QSO Party 2014

Mike Dinkelman, N7MA

Reported below are some club scores in the 7th District and my adventures in Eastern Washington this year. I noticed that WVDXC had 12 participants this year

Call	Score	CW Qs	Ph Qs	Dig Qs	Mults
M/S HP K7RI	181,090	529	500	0	70
Mobile CW LP N7WA	108,414	635	0	0	57
SO CW HP WC7Q	44,520	265	0	0	56
SO Mixed LP W7VXS	29,600	186	17	0	50
KX7L	18,156	160	27	0	34

SOAPBOX

KX7L

Got a very late start on this one due to family obligations. Not sure I missed much though - propagation on 15 and 10 seemed poor here, with lots of QRN. 20m seemed pretty slow. Things livened up quite a bit once the Sun went down though, and I had good luck on 80 and 40. Spent a fair amount of time fiddling around with the new rig - a KX3, and HR-50 amp. Thanks for the Q's!

K7RI

First time ever in this contest. Lots of fun. Conditions seemed down here, as most stations were pretty weak and in the city noise.

WC7Q

Lots of fun working this contest at leisure. 10 and 15 not very good but 20 made up for it. K3, P3, KPA500 Elecraft using a Steppir 3 el for 20m and a Loop for 40 and 80. All worked well.

N7WA

I have done a number of mobile contest runs through eastern Washington over the past few years but it's always been as a multi-operator entry because I have had others to share the driving. This year, I went out as a single operator which meant I had to do all the operating and ALL the driving. Of course, I can't CW contest while driving (well, I could but it wouldn't be pretty) so my strategy was to find county lines and work from there. The interesting thing about this arrangement is that each contact counts as two (one for each county).

I started my quest on the Yakima-Benton County line at 6 am on Saturday. This test usually starts out slow but I was running contacts at a good clip in just a few minutes. I hung out at the county line for almost an hour and then packed up and headed for my Franklin-Walla Walla location.

The Franklin-Walla Walla line was a location I had found when we once held a family gathering in the Tri-Cities. The county lines actually go up the middle of the Snake River at this location. The rules say I have to be with 500 feet of the county line. I was in a boat launch area right on the river. It was close and if I wasn't actually within 500 feet, I certainly felt close enough to be aligned with the spirit of the rule. Another hour and the log is filling at a great pace. It's hard to break away, but the Columbia-Garfield County line is 90 minutes away and I have a DXer in Sweden who really badly needs those two for the worked all counties award. We are staying in touch via text messaging and he is getting antsy.

The good news is the contesting is great from the Columbia-Garfield line. The bad news is that there is no cell service out there and I can't coordinate with my Swedish friend. I am working plenty of Europeans - even Swedes. I only hope he's looking for me. After about an hour, I move on to the Garfield County seat - Pomeroy - where they do have cell service. My Swedish friend and I try to make

contact for just Garfield County but it's no go. Maybe next year during the Salmon Run.

Time to head north to the Whitman-Adams County line. There isn't much out here but the bands are full of people looking for me. Another hour later and it's time to run for the north side of Adams County and the Adams-Lincoln County line. Because I had an uneven number of counties, I had to double up somewhere along the way so I did both sides of Adams County. This got me well north of I-90. It was about 6 pm when I finished there and I had been going for 12 hours. It's really hard to just call it quits at this point so I continued on north towards Grand Coulee Dam. It was BIC time.

There are four counties that come together here at Grand Coulee. Unfortunately, the only way to activate them all would be to swim in the middle of the river. So, I went northeast of Grand Coulee into the Colville Reservation and the Okanagan-Ferry County Line. I really enjoyed this stop. It was quiet, the ever present wind had died, the sun was setting, and there were actually green trees to be seen. It almost seemed like I was the last person on the earth... except for a tired old IC-706 blasting away with wall- to-wall signals. It seemed the whole world was calling in... Europe, Japan, and the entire USA. Now, it was about 8 pm and I had been on the road for 14 hours.

Finally, I'm headed home, south and west with one more planned stop at the Douglas-Grant county line. At the Douglas-Grant line, it was dark and while there were lots of signals on the radio, there was plenty of local QRN too. It was pretty disappointing because 40 and 20 were jumping. However, if the signal wasn't over S5-7, it was hard to work. I got frustrated pretty quickly. I think it was some sodium vapor street lamps because there was nothing else around. Because it was dark, really dark, I couldn't really look for someplace else either. Did I mention how dark it was? After half an hour of trying to work through the noise, I was beat. There were two more hours to the contest (ending at midnight local time) but I was done. It didn't help that the GPS said it was three hours to home either. I hit my own bed about 1:30AM Sunday. Needless to say, Sunday was totally down time.

I ended up with about 681 contacts, comparable to the two-day Salmon Run totals I usually get. (There were a lot of pop bottles and junk food wrapper in the back seat too.) I am not a big fan of eastern Washington as a place to live but the Spring and the Fall are really nice times to visit. If you ever want to be radio-popular, many counties out there have relatively few hams. You don't have to go

mobile. Pull a travel trailer and park it someplace nice or pitch a tent. Then, throw up an antenna, and work the world. It's even fairly RF quiet, except for a certain street corner on the Douglas-Grant county line. Two photos:



WWDXC DXCC Ladder

Jim Rockey, WA7SRZ

June 1, 2014

As I hope everyone knows by now, 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.wwdx.org/dxcc-ladder-2/> and clicking on “click for dxcc ladder” Accordingly, the Board has decided to discontinue a full listing of the DXCC ladder each month in the Tabloid. The plan is to publish the DXCC ladder each year in the January issue, so that each member’s end-of-year totals will appear as the new year begins. If anyone is truly outraged by this decision, let me or the Editor know.

Announced DXpeditions for June 2014

Your Editor has considered at length whether publishing here a list of DXpeditions makes any sense. Last month I spent the time to look at various websites to find out what countries had promised to be operating and then, applying a very subjective and non-scientific approach, listed those that I thought club members would like to know about. I did not list those countries that one can find and work simply by turning on your radio and listening—or by checking any of the various spotting networks. But I well remember that any country that you don’t yet have confirmed is a “rare” one. Any attempt to research and list here every promised operation would take a lot of my time but, more importantly, would simply duplicate what anyone can find with very modest effort on the Internet—even if you don’t subscribe to The Daily DX, QRZ DX or any of the other bulletins that promise to keep you fully informed about the latest in DX.

So I have decided to list here websites that will tell you far more completely than I can about what’s on the air and is claimed to be on the air in the near future. Most are listed in John’s column above. Those sites will tell you more about more operations than I ever could, more accurately and timely than a once-a-month bulletin such as this. If anyone believes that a listing of **some** DXpeditions here that I think is valuable and worth my time to list them, given my subjective selection criteria, please let me know and I’ll reconsider. But I guarantee that you’ll find more and better and more accurate information by checking the sites listed below than you will by checking the operations I would otherwise list here. And I guess you can always tune the bands and avoid the spotting net pileups that seem to predominate the bands these days.

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

The Daily DX
DX World

dailydx.com (subscription and free trial available)
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)

A Note About DX Spotting Sites

I guess each of us has our favorite spotting cluster (not sure why it's called a "cluster") or website that tells us in real time who is on and where. For the last two years, and at the suggestion of Bob Vallio, W6RGG, I've been using the site at www.dxscape.com for day-to-day operating. The site is run from Japan and, like most sites, links to other sites. You can choose high bands, WARC bands, VHF, etc. and you can also decide whose spots you want to see. The data base search option works very well—I've worked more than a few new band countries by researching the "Worldwide" search option to find out where the station of interest is operating and (hopefully) will be operating again.

Two months ago I learned about a new site, <https://dxheat.com>, and I've been using every day. The site has a great search capability (more information than you'd ever want to know) but, more importantly, it lets the user select and combine one or more bands of interest (rather than a group of bands as at dxscape.com). So, if you're working on a 17 meters DXCC, you can choose only spots on 17—or you can select 17 and 12, or 17, 12 and 10—or any combination you like. You can also choose by mode—only CW, only SSB, only digital, or any combination. Finally, you can choose whose spots you want to see based upon geography—the DX station or the spotter. Propagation information, updated frequently, is also on the home page. I've found the site to be very helpful.

A third site, www.dxfor.me, is a big favorite of my DXer friends in Northern California. I haven't used it but some swear by it.

So, please send an email to your Editor (kedwards@ltd.com) and let me know what you use. If I get enough responses, I'll publish a summary next month.

June 2014 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.

This month is pretty slow for contests. You can find on the WA7BNM website a complete list of June contests, almost all of which I've never heard of. The two that may be of interest to club member are as follows:

1. All Asia CW June 21 0000 UTC to June 22 2359 UTC
Complete rules, etc. may be found at https://www.jarl.org/English/4_Library/A-4-3_Contests/2014AA_rule.htm
2. ARRL Field Day (Yes, I know it's not a contest) June 28 1800 UTC to June 29 2100 UTC Rules, etc. at <http://www.arrl.org/files/file/Field-Day/2014/Field%20Day%20Packet%202014%20v2.pdf>

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 which works with AR Cluster, CC Cluster or DX Spider nodes. It can be downloaded from
<http://www.bcdxc.org/ve7cc/default.html>

Anyone Need a New Badge?

Denny, W7SNH, reports the following: "This is my first posting for WWDXC Call/Name badges (Order #34) which I will be placing with the engraver

at the end of June 2014. So far I have one request for a badge. In order to make it cost-effective, I need at least four (4) more badge orders. So, if you need one let me know. Go to the club's web site www.wwdx.org for further information.”

June Membership News

Jim Hadlock, K7WA

Members with a June 2014 renewal date will be receiving renewal notices this month. If you do not receive a Renewal Notice, you are either paid up at least through December or you have dropped off the Active Membership list. Active Membership dues in the Western Washington DX Club are \$25.00 per year. Dues support contributions to major DXpeditions, the Totem Tabloid newsletter, awards, club repeater, liability insurance and other activities such as monthly meetings, the club website, annual picnic, and sponsored plaques for CQ and ARRL International DX contests. This year we will participate in the Pacific Northwest DX Convention July 25-27, hosted by the ORCA DX and Contest Club in New Westminister, BC. Plan to attend! The popular Washington Salmon Run will be held September 20-21. Watch the club website for up-to-date information on club activities. Thank you for supporting the Western Washington DX Club! Questions about WWDXC membership should go to Jim, K7WA (email: k7wa(at)arrl.net).

Due to recent updates on the club website, the PayPal option for dues payment is not working at this time. Please send renewals by check to: WWDXC, PO Box 395, Mercer Island, WA 98040.

A Recollection of Lee Wical, KH6BZF

As many know, Lee, KH6BZF, became a Silent Key on May 2, 2014. Rich, W6RS, sent the following about his encounter with Lee many years ago:

“It was with great sadness that I learned that Lee Wical, KH6BZF, recently became a Silent Key. Lee was a real ambassador of Amateur Radio and probably never knew what an impact he had on a young ham. Flashback to 1969: my Dad, Mom and I had planned a family vacation to Oahu in the Hawaiian Islands. I was a senior in high school and had only been licensed for a couple of years. I made it through my Novice year and was a newly-minted General. I had the good fortune of running into Lee on 20 meters just before we left for Hawaii. When I told him

that we would be there in a couple of weeks, he insisted on giving me his phone number and told me to call him when we arrived. When we finally settled into our hotel in Oahu, I called Lee who told me to sit tight, he was on his way over. He arrived, and after meeting my parents, told them to go out and have a nice afternoon and he would give me a tour of the island and we would go back and operate from his shack. Needless to say, the remainder of the day was magical for a 17 year old. Lee gave me the grand tour, slanted on things that were communications and electronics oriented. We then ended up at his shack and I was able to operate as WA9SZN/KH6 and see the ham radio world from his perspective. We talked for hours and he related stories of his ham radio experiences, his love of the hobby and the many friends he'd made over the years. He finally returned me to my hotel and then said he envied me since I was just starting on a great adventure. He managed to inspire me to stay active and progress within a hobby which ultimately led to a vocation. Lee, I can only imagine you're currently hanging out with some of the great DXers and contesters at the "ultimate" club station who have preceded you, having an 807, and telling some great stories.

73 OM and good DXing!"

Editor's Note: In October 1988 I flew from San Francisco to Honolulu to meet up with Eric, K3NA and Toni, KN3T. We then were to fly to Fiji, meet up with now-club member Eddie, VK4AN/3D2XX, and then take the once-weekly flight to Rotuma for the 1988 DXpedition to Rotuma Island as 3D2XX. We left the U.S. without any assurance from ARRL that Rotuma would be added to the DXCC List, but fortunately it was shortly after we returned home. I arrived at the airport with radios and antennas and started looking for Eric and Toni. I guess I was easily noticed with all the stuff I had with me because Lee and several other KH6s found me right away and then we found Eric and Toni. Given our four hour layover, Lee insisted that we repair to the closest bar. I never learned how Lee knew we would be there, but we spent the next several hours imbibing adult beverages and swapping DX stories—and Lee insisted on picking up the bar tab. The three of us somehow managed to make our way to the flight to Fiji. It's an experience I will never forget. RIP, my friend.

SPECIAL EVENT STATION W7C

Matt, KQ7W, reports the following about a Special Event operation for the FIFA World Cup 2014:

W7C - Radiosporting and Soccer Uniting the World - FIFA World Cup 2014
Special Event: June 15-July 13

There will be approximately eight stations using the W7C callsign during the event, all possible bands/modes.

160M - 2M - Main modes of operation : CW - SSB - PSK - RTTY

QSL via AC7DX



Two Blasts From the Past—And Present

I recently gained access to the photos that appeared in Jim Cain's book about Danny Weil, the Colvins, and the Yasme Foundation. I thought I'd print two each issue so long as the supply of interesting photos lasts. I had two all selected and ready to go until I was sent the first photo below. Yes, it's **that** Don Miller.



Don Miller, ex-W9WNV and Carl, AI6V/P40V at Dayton 2014



The Colvins--Lloyd, W6KG and Iris, W6QL-- on their first DXpedition

Equipment Sale From the Estate of Bill Rohrer, W7IJ (SK)

Nick Winter, K7MO, reports that he is handling the sale of equipment from the estate of Bill, W7IJ (SK). Here's the list of items for sale, with more additions promised. Contact Nick at wjnjr@blarg.net if you're interested.

Qty	Mfger.	Description	Price
1	MFJ-805	RFI Detector	\$ 60.00
1	David Clark	H10-40 Headset	\$100.00
1	LDG	AT-200 Memory Tuner for Icom IC-7000 (New In Box)	\$ 150.00
1	Icom	MB-62 Mobile Bracket for Icom IC-7000 (New in Box)	\$ 25.00
1	Radio Works	Line Isolator T-4G	\$ 34.00
1	Radio Works	Line Isolator T-4G (Both New In Package)	\$ 45.00
1	Radio Works	Line Isolator T-4-500	\$ 30.00
1	Radio Works	PCL1-4 Line isolator (Power Wiring Isolator)	MAKE OFFER
1	Astron	RS-35A Power supply	\$ 100.00
1	Astron	RS-35A Power supply	\$ 100.00
1	Astron	RS-20A Power Supply	\$ 65.00
1	Icom	IC5-P 4 Amp power supply	\$ 30.00
1	Heil	PL2T Mic Boom w/table clamp (New)	\$ 95.00
1	Heil	WM-1 Wall mount bracket (New... In Box)	\$ 20.00
1	Palstar	BT1500A Balanced Antenna tuner (Nearly New)	\$ 450.00
1	ETO	DAS Digital Antenna Selector for the Alpha 87A, 77SX/DX	\$ 300.00
1	West Mountain Radio	RIGblaster duo (Not tested... missing some cables)	MAKE OFFER
1	Comet	CFX-324 Triplexer for 145-220-440 Mhz	\$ 40.00
1	AEA	DM-1 Deviation Meter	\$ 65.00
1	Mirage	C22G 220-225 Mhz Amplifier 2w input 20w output (Not tested)	\$ 40.00
1	Palomar	RX-100 R-X Noise Bridge	\$ 30.00

1	Kantronics	KPC-3 Packet Communicator Modem (Unknown Condition)	\$ 30.00
1	Vibroplex	Vibrokeyer Deluxe Paddle	\$ 100.00
1	ICE	196 RF Limiter (New... Never used)	\$ 25.00

FCC RM-11708

Jim, K7EG, posted a note on the reflector about the FCC rule-making proceeding, RM-11708 and urging all to file comments opposing the proposed rule. As Jim states, “The threat is serious and disruptive to cw and rtty modes. We need to flood the FCC with objections to RM-11708.”

The link to the FCC petition is <http://apps.fcc.gov/ecfs/comment/view?id=6017477458> Note that the ARRL filed the petition and has published FAQs at <http://www.arrl.org/rm-11708-faq>

This petition has also generated many comments on the contesting.com reflector. Your Editor does not fully understand the technical nature of both what is being asked for and the possible consequences if the petition is granted. Perhaps someone who does can give a brief explanation of what this is all about at the June meeting.

Totem Trader

FREE-FREE-FREE

A set of KLM KT-34 elements—Andy, K7GEX, 425-743-6941 or andya87@yahoo.com

Wanted: Steppir DB-36 Antenna – John Owens, N7TK 425-745-0577

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

Satellite Antenna system for sale as follows:

HyGain #215S 70CM Oscar Satellite Antenna (30 elements in crossed configuration with relay switching for polarization - RHCP and LHCP)

HyGain #216S 2m Oscar Satellite Antenna (16 elements in crossed configuration with relay switching for polarization)

Yaesu G-5400B 2-axis rotator with fibreglass separator pole for the 2 antennas

Asking price for the 2 antennas, separator, and rotator is \$700. There are a couple of other items for S/W control of the rotator that can be included at that price.

I also have ICOM all mode transceivers for 2m and 70CM that I used with the satellite antenna system.

My contact info is via the WWDXC reflector and (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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