WESTERN WASHINGTON DX CLUB, INC.

TotemTabloid

September 2014

NEXT MEETING IS SEPTEMBER 9

WRTC 2014

Come hear from one of our own, Mitch, K7RL, as he tells of his experience in competing in the contest of contesters. Mitch will talk about station set-up and equipment, strategy for the contest, operating the contest, and post-contest reflections. Q&A will follow. Don't miss this!

Rob's 125th Street Grill, located at 125th and Aurora Avenue North

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

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

Random Comments From the Editor

This month's meeting offers a rare ooportunity: to hear from one of the competitors all about WRTC 2014, the recently-concluded Olympics of Radio Contesting held in the Boston area. Club member Mitch, K7RL, was one of the select competitors at WRTC 2014 and will speak about the station layout, strategy, operating and post-contest reflections, followed by a Q&A. Just being a participant at a WRTC says that you're in the cream of the crop among radio contesters. Don't miss this meeting—you'll regret it if you do.

Later this month is the CW Open, sponsored by CWops. This is a fun contest, especially for those of us getting on in years. Instead of a 36 or 48 endurance marathon, the CW Open is three 4-hour sessions, beginning at 5:00 p.m. local time on Friday, September 5 (0000 UTC September 6). You can operate all three sessions, or two, or just one. The exchange is simple: serial number and name. Complete rules, etc. are at http://www.cwops.org/cwopen.html WWDXC is fielding a team for this event; if you're interested contact Jim, K7WA, at jrhadlock74@msn.com

I read in Solid Copy, the newsletter of CW Ops, about a new code training program called "CW Player." You can read a lengthy article about it at http://www.cwops.org/newsletter/2014/08scopy14aug.pdf that includes the download location. I haven't tried it, but some may be interested.

Finally, the July Tabloid contained an article about a single feed line wire antenna for 80 and 160 designed to be installed on a tower. Adam spent many hours here getting it installed and we encountered some strange interaction issues, either from the tower or the DB-36 on top. If you're thinking about installing this antenna, please speak to Adam or me before you go ahead.

Check out the Totem Trader this month—lots of stuff for sale.

The W7KH/W7GUV QSL Card Collection, Part 2: The Ebon Atoll DXpeditions

By Robert Gregory, KD7H

Since its inception in 1937, the DXCC has gone through a number of changes to the rules, including re-evaluation of what defines an entity, formerly

referred to as a "country." Some DXers simply call them "counters." Over the years, the definition of an entity has been fine-tuned and clarified like a weak DX signal.

Geographic and political events have certainly affected how an entity is defined, but events in our microcosmic world of amateur radio have also had an effect on the definition and the rule.

Where Do We Go Next? is the title of Martti Laine's (OH2BH) book about his and others' "DX-ploits," and the title has been a question considered by a great number of DXpeditioners. In asking the question, the "next"' DX destination could be an all-time new DX "counter"---especially if some point or possible loophole in the entity definition might reveal previously overlooked real estate.

After scouring atlases, poring over yellowed marine charts, or tattered and creased world maps in smoky, alcohol-infused backrooms, a rock barely protruding one foot above the salty spray, at high tide, may become "where they go next," and an often valiant or, sometimes, misguided effort is made to make it count.

To introduce this next installment of the history of some rather "wild DX" illustrated by QSL cards from the John Dack, W7KH/W7GUV QSL card collection, I will now share a short rhyme originally penned by that venerable old-timer Hugh Cassidy, WA6AUD (SK) of the *West Coast DX Bulletin* fame and an anecdote in the style of the WCDXB:

Let us probe the silent places

Let us seek what luck betides us

Let me take you to a lonely land I know

There's a whisper on the night wind

There's a star agleam to guide us

And the wild DX is calling

Let us go!

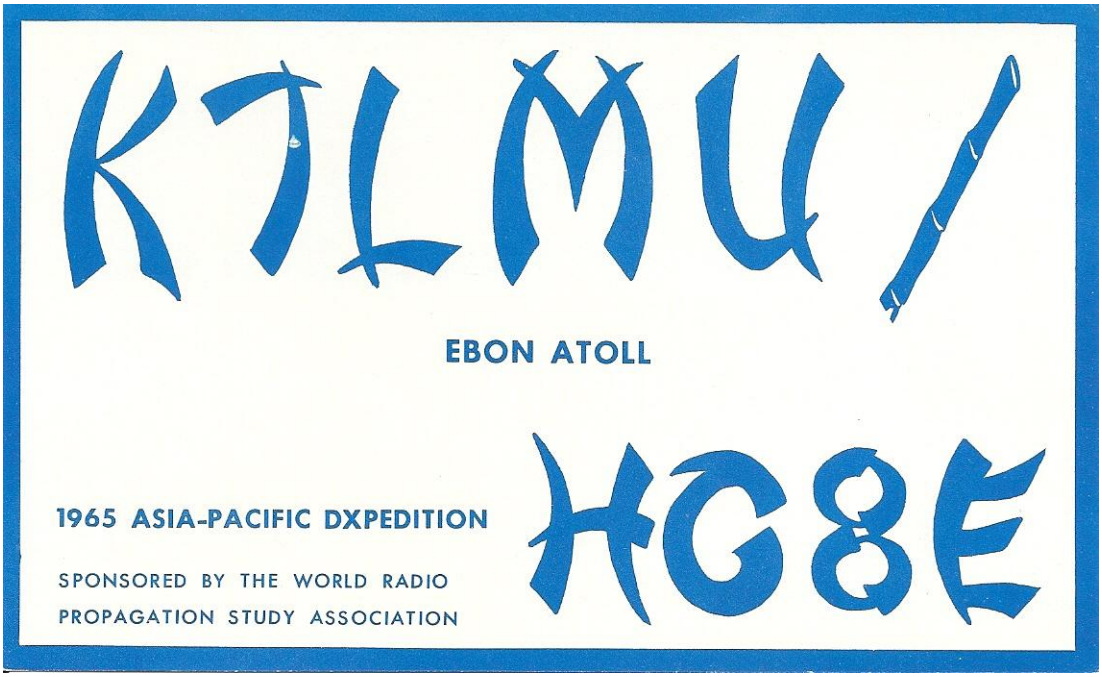
The local QRPer climbed up the famous hill to the Old Timer's QTH and the young DXer, often puzzled by the *Eternal Enigmas*, came prepared with a deep and complex question about why an operation from a tiny Pacific Ocean atoll called Ebon, supposedly part of the Marshall Islands, would count as a "new one." In response to the question posed, the Old Timer began to emit a kind of burped, high-pitched whine reminiscent of a regen receiver being tuned across an interfering heterodyne. The QRPer cocked his head and leaned in so as to better hear the response. Through what, for a moment, sounded like a static crash on one-sixty, the Old Timer, barely above the noise level, slowly uttered one word, "inexplicable."

In the January 1966 issue of *QST* magazine, three additions to the DXCC Countries List were announced: Cormoran Reef, Ebon Atoll, and the Spratly Islands. QSL cards for these "countries" could be submitted beginning March 1, 1966, and it was also stated that "Spratly is a territory with historic claims by four different countries but territory in possession by no one country. Confirmations for operations from Ebon Atoll made under permission from either Ecuador or the U.N. Trust Territory will be accepted for credit. Operations from Cormoran Reef made under permission from either Costa Rica or the U.N. Trust Territory will be accepted for credit."

Ebon Atoll is a coral atoll of twenty-two islands centered at 167 degrees East and 4 degrees North in the Pacific Ocean (please see map). It forms a legislative district of the Ralik Chain of the Marshall Islands. Being approximately 96 miles south of Jaluit Atoll, Ebon is on the southernmost extremity of the Ralik Chain, and it is the southernmost land mass of the Marshall Islands.

At the end of World War II, Ebon came under the control of the United States as part of the U.N. Trust Territory of the Pacific Islands until the independence of the Marshall Islands in 1986. Currently, a contact with Ebon Atoll would count for DXCC as the Marshall Islands (V7), Islands on the Air number OC-028 (Ralik Chain), CQ zone 31 for the Worked All Zones award, and, of course, Oceania for the Worked All Continents award.

Since Ebon Atoll was rumored to soon become a DXCC "counter," in the autumn of 1965 two Ebon DXpeditions were undertaken. One by Don Miller, ex-W9WNV (now AE6IY) and Chuck Swain K7LMU (SK) as K7LMU/HC8E under the supposed approval of the Ecuadorian government for Ebon Atoll and from the Costa Rican government for Cormoran Reef. The other Ebon Atoll DXpedition was carried out by Lloyd and Iris Colvin, W6KG (SK) and W6QL (SK), as KX6SZ/Ebon with permission from the Trust Territory of the Pacific (please see QSL cards and log extracts).



1965 Asia-Pacific DXpedition

~~K7LMU/TIC9~~
K7LMU/HC8E

OPERATOR
~~DON MILLER - W9WNV~~
CHUCK SWAIN - K7LMU

~~Comoran Reef~~
Ebon Atoll

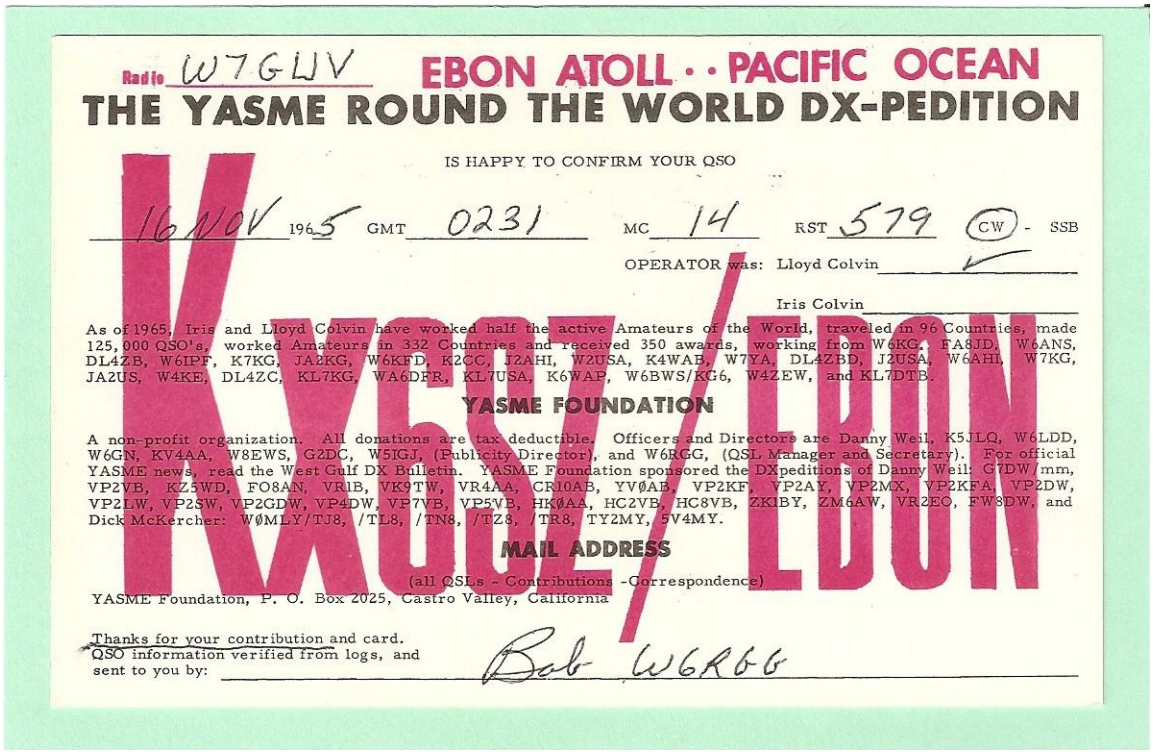
Equipment:
Gear: **Collins** S-Line (32S3, 75S3B)
Antennas: **Hy-Gain** 14AVQ, 203BA, Dipoles
Electro-Voice microphones

"Chuck"

Call	Date	GMT	MCS	Mode	R(S)T
W7GUV	10-27-65	1752	14	2XSSB	5-9

QSL Via W4ECI

*	0721		HC1OC	V	KWAJ. GROUP				
OCT 27	1753	1754	K7LMU/HKØE	CHUCK	EBON ISL	14	SSB	DC IKW	5
OCT 28	0406		TEST						
OCT 30	1840		CA[illegible]N/P						
	1846	1848	LA5N/P	KARL	JAN MAYEN				5
	2027	2028	TJ1AC	FRED	VICTORIA, CAMEROUN				5
	0259	0312	KL7CGA	BILL	UNIMAK, ALASKA				5
	0312	0325	WB6DWA	KEN	KINGSBURG, CAL.				5
OCT 31	2103	2117	LA4FG/P	ODDVAR	SPITZBERGEN SVALBARD	M	CW	IKW	5
	2200		W4JAM						
	2210	2228	VE1AQ	MILDRED	DARTMOUTH, N.S.				56
	2228	2317	W4JDM	BRUCE	ARL., VA.				57
*	2217	2341	WR6DFE	JOHN	SAN JOSE, CAL.				59
NOV 2	0015	0015	K7LMU/TI9C	DON	CORMORAN REEF	14	SSB	DC IKW	5
27	0135	0136	K7LMU/TI9C	DON	CORMORAN	14	CW	DC IKW	59



Radio W7GLV **EBON ATOLL · · PACIFIC OCEAN**

THE YASME ROUND THE WORLD DX-PEDITION

IS HAPPY TO CONFIRM YOUR QSO

16 NOV 1965 GMT 0231 MC 14 RST 579 (CW) - SSB

OPERATOR was: Lloyd Colvin ✓

Iris Colvin

As of 1965, Iris and Lloyd Colvin have worked half the active Amateurs of the World, traveled in 96 Countries, made 125,000 QSO's, worked Amateurs in 332 Countries and received 350 awards, working from W6KG, FA8JD, W6ANS, DL4ZB, W6IPF, K7KG, JA2KG, W6KFD, K2CC, J2AHI, W2USA, K4WAB, W7YA, DL4ZBD, J2USA, W6AHI, W7KG, JA2US, W4KE, DL4ZC, KL7KG, WA6DFR, KL7USA, K6WAP, W6BWS/KG6, W4ZEW, and KL7DTB.

YASME FOUNDATION

A non-profit organization. All donations are tax deductible. Officers and Directors are Danny Weil, K5JLQ, W6LDD, W6GN, KV4AA, W8EWS, G2DC, W5IGJ, (Publicity Director), and W6RGG, (QSL Manager and Secretary). For official YASME news, read the West Gulf DX Bulletin. YASME Foundation sponsored the DXpeditions of Danny Weil: G7DW/mm, VP2VB, KZ5WD, FO8AN, VR1B, VK9TW, VR4AA, CR10AB, YVØAB, VP2KF, VP2AY, VP2MX, VP2KFA, VP2DW, VP2LW, VP2SW, VP2GDW, VP4DW, VP7VB, VP5VB, HKØAA, HC2VB, HC8VB, ZK1BY, ZM6AW, VR2EO, FW8DW, and Dick McKercher: WØMLY/TJ8, /TL8, /TN8, /TZ8, /TR8, TY2MY, 5V4MY.

MAIL ADDRESS

(all QSLs - Contributions -Correspondence)

YASME Foundation, P. O. Box 2025, Castro Valley, California

Thanks for your contribution and card.
QSO information verified from logs, and
sent to you by: Bob W6RGG

KX6SZ/EBON

	2347		5V8CM						
	2355	2355	5V28CM	GUS	TOGO	14	SSB	DC 1 KW	57
NOV 16	0200		KX6SZ			14	CW	1 KW	
	0230	0231	KX6SZ/EBON	LLOYD	EBON ATOLL				57
NOV 21	2201		W4JDM						
NOV 25	2234		ZD7RH						
	2244	2246	ZD7RH	RAY	ASCENSION				569

Although the January 1966 QST DXCC announcement for Ebon Atoll and Cormoran Reef did not contain documentation regarding why these two "countries" should count for DXCC, Ecuador's claim to Ebon and Costa Rica's claim to Cormoran had been alluded to in the official January 1966 announcement. The lack of firm documentation by the two supposed parent countries was revealed in the December 1966 QST DXCC announcement of the withdrawal of Ebon Atoll and Cormoran Reef from the DXCC list. The following points were clarified in the December 1966 QST DXCC announcement: (1) maps relied upon were inaccurate (e.g. Rand McNally 1963); (2) consuls had mistakenly issued authorization to Chuck Swain and Don Miller; and (3) the two areas, Ebon Atoll

and Cormoran Reef, were actually within the U.N. Trust Territory and under U.S. administration.

Somewhat related to the Ebon episode, Cormoran Reef (please see K7LMU/TI9C QSL card), at 134 degrees East and 8 degrees North, is approximately northwest of the island of Koror in present day Palau (T8). At the time of its addition to the DXCC list (January 1966), it was part of the Western Caroline Islands (KC6) and although it was thought to be administered by Costa Rica because of authorization mistakenly given by the Costa Rican Consul of Los Angeles, it was actually part of the U.N. Trust Territory.

The Colvins did indeed have the correct permission to operate from anywhere within the Trust Territory of the Pacific, and they had correctly obtained the call sign KX6SZ. After a thorough investigation by Lloyd Colvin and the ARRL, which included obtaining statements from Ebon Atoll officials, it was discovered that K7LMU/HC8E had never operated from the atoll, and they had never been seen anywhere within the islands of Ebon Atoll. The Colvins not only had proof of their own activity on Ebon but they were also stranded there from mid-November until December 24, 1965, while awaiting the return of a copra ship.

Because it was ultimately realized that the country status of Ebon had been based on confused misinformation, it, along with Cormoran Reef (a similar Miller/Swain situation), was formally removed from the DXCC list in December 1966. As separate "countries," Ebon Atoll and Cormoran Reef had been inexplicably created and consequently removed from the DXCC list, and they do not even appear on the DXCC deleted list. The withdrawal of Ebon and Cormoran from the DXCC list placed them at numbers nine and ten on the list of eleven countries in all that have been withdrawn (i.e., completely removed from both the DXCC list and the DXCC deleted list).

The Ebon Atoll episode or escapade, depending on your point of departure, appears to have been an important turning point in the DXCC program and for the history of DX. Although the current entity criteria are more clear and more specific than in 1965 and they remain entangled in political turmoil (think Kosovo), those criteria and the required DXpedition documentation were certainly clarified and enforced after the revelations surrounding the Ebon Atoll operations. The Ebon situation, along with several others, may have been the impetus for forming the DX Advisory Committee (DXAC).

Although K7LMU/HC8E and K7LMU/TI9C contacts and QSL cards never counted for anything, KX6SZ *was* accepted for DXCC credit (Marshall Islands) and, according to the RSGB/IOTA, KX6SZ *was* credited for OC-028. All these cards, however, remain as important DX artifacts in the W7KH QSL card collection.

Further documentation and related information can be found in the excellent book written by Jim Cain entitled *YASME, The Danny Weil and Colvin Radio Expeditions* (Chapter 35: Ebon Atoll – The "Country" That Wasn't). Also please refer to the official DXCC announcements in the January and December 1966 issues of QST magazine.

Relatively recently, Don Miller has apologized for his involvement in his bogus DX operations. An interview with him can be heard here: http://dokufunk.org/upload/miller_highlight%281%29.mp3 .

In conclusion, in my quest for information about Ebon Atoll and the DXCC, I would like to thank Dick Moen N7RO, Wayne Mills, N7NG, and Kip Edwards, W6SZN for their input.

2014 Washington Salmon Run

Jim Hadlock, K7WA

The 2014 Washington Salmon Run will be held on September 20 and 21. This is the weekend operators across North America and worldwide look for QSOs with Washington state stations, and operators in Washington state look for QSOs with all 39 Washington counties and other stations outside Washington. Activity runs from 9:00 a.m. (1600 UTC) to midnight (0700 UTC) on Saturday, and from 9:00 a.m. (1600 UTC) to 5:00 p.m. (2400 UTC) on Sunday. Contacts count on SSB, CW, and Digital modes-- even FM on 2 meters! The Salmon Run contact exchange is signal report and location (County for WA stations and State/Province/DX for out of WA stations).

There will be many portable and mobile stations out in the rarer counties, and be sure to look for the WWDXC Club station W7DX for bonus points on each mode. Several clubs will be active in the Salmon Run including the Radio Club of Redmond, Spokane DX Association, Kitsap County ARC, Radio Club of Tacoma and others.

Join the on-the-air fun when you can, whether for an hour or the whole weekend. Who knows, your QSO and county may help someone win a Smoked Salmon Award this year! And don't forget to send in your log to salmonrun@wwdxc.org no later than October 5, 2014. Rules, county abbreviations, etc. are at http://www.wwdxc.org/853/

See YOU in the Salmon Run!

Thanks to the 2014 Washington Salmon Run Committee: K7EDX, N7UK, K7SR, K7DSE, N7WA, K7BTW, and K7WA. For more information see the Western Washington DX Club website: www.wwdxc.org

Contest Activity Report September 2014

Mike "Dink" Dinkelman, N7WA

We begin again…

Summer is waning and the 2014-2015 contest season is just a few weeks away. Hopefully, your summer station and antenna projects have gone well and you are ready for whatever the propagation gods may inflict upon us. For those who don't already know, it was announced at the PNWDX Convention that the Orca DX and Contest Club ran away with the Northwest Trophy by a rather large and disheartening margin. Now, we could just slink away and lament our lot in life. At the hospitality suite, I even suggested we resort to nasty tricks and treachery. (Alas, I was shouted down by those endowed with higher ethical values.) So instead, maybe we need to rally the troops. There is a lot of talent in this club and we just need to be a bit smarter and more involved in boosting our scores.

Towards that end, maybe you have a station that plays well but you hate phone contests? Or, maybe you're scheduled to babysit the grandkids at your daughter's house during the WPX (do we have to watch *Frozen* again?) and your station will be idle. You could try opening your station to someone with a bit more enthusiasm and even if it isn't a WWDXC member YOU can still claim the points for the WWDXC per the Trophy competition rules. Maybe you love contesting but feel your station isn't up to par? There are multi-op opportunities that sometimes go wanting for operators. (I can think of one in Sequim.) It's a chance for a little camaraderie, you can mentor or be mentored, and you don't even have to put in a full effort if your time is limited. Give it some thought; if you have any other ideas that can help us blow away our ~~pompous~~ ah… wonderful neighbors to the north, drop me a line and I'll be happy to spread the word and credit you with it.

Before we get to the upcoming Trophy tests, there is one test near and dear to the WWDXC coming up in just 3 weeks – **The Salmon Run**. I already see all kinds of emails coming in with people indicating the counties they will be activating. Sounds like Eastern Washington will be well-represented by several mobiles and a number of expeditions. This is getting to be one of the more popular State QSO parties (smoked salmon doesn't hurt). I will be doing the log analysis again this year and look forward to a full email box before I even get home. With one year under my belt, I expect it'll be easier. (By the way, the Salmon Run is starting to hurt attendance at the Mike & Key ARC September meeting with which it always collides.)

What's up for September? It's time for the CQWW RTTY test. That is the first test in the new Trophy season and runs Sept 27th and 28th (Zulu). We have a bunch of RTTY ops in the club. Why don't you fine ops show us how it's done?

Finally, I have a suggestion on how to make my life easier. (It's always about me, me, me.) If you do operate a test this year, may I suggest putting your score details on 3830 (http://www.3830scores.com/)? Why? Well, it's a central location that easily allows me to collect the scores and soapbox comments with a minimum of fuss. Yes, I watch the reflector but y'all don't always quite get all the information out and it can be a hassle to figure out the information. Even better, did you know that when you post to 3830, you get a nice summary at the end that you can copy and paste into an email to the reflector? Still, if you absolutely refuse to post to 3830, I will take your post to the reflector over nothing.

Everybody have a good year and may this solar cycle provide us with a few more fireworks.

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/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/)

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" Accordingly, the Board has decided to discontinue a full listing of the DXCC ladder each month in the Tabloid. The Tabloid will 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. So please get your updated totals to me by mid-December.

Announced DXpeditions

Your Editor has considered at length whether publishing each month a list of DXpeditions makes any sense. When I took over as Editor, 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 it remains true 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 look at any of the free bulletins that promise to keep you fully informed about the latest in DX, such as DX World.

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, especially in a once-a-month newsletter. Most are listed in John's column above.

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)

Selected DXpeditions

Rob, N7QT, will be QRV as VK9AN from Christmas Island (Indian Ocean) with Melanie, AB1UH, from September 18 to October 2. They'll have a K3 and KPA 500 with a CrankIR antenna. Rob, KD7H, will be posting to the Yahoo Group and making announcements on the W7DX repeater when Rob and Melanie will be available to work club members. They will be active on CW, RTTY, PSK, and SSB and they will try to focus on North America as much as possible.

Bernie, W3UR, announced in The Daily DX for August 29 that Zorro, JH1AJT, will be active from E3 Eritrea beginning September 18. Call sign to be announced.

The KP1-5 Project announced on August 29 that the U.S. Fish & Wildlife Service has agreed to permit an amateur radio operation from Navassa Island (KP1) sometime in the next 18 months. Stayed tuned if you need this one.

It's still two months away, but the latest press release from the Tromelin Island (FT4A) group makes it sound like this one will definitely happen. The operation is scheduled for October 30-November 10, 2014. Details can be found at http://www.tromelin2014.com/en/

An eight-hour operation from Sable Island (CY0C) is scheduled for September 8. More information at www.cy0dxpedition.com

September 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.

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

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

FOR SALE: **Hygain TH7DXX tribander** in good shape. Replaced it with Steppir. On the ground ready for pickup [West Seattle]. All stainless hardware with new stainless truss. $200 obo. Rod W7OM 206 037-9414 or **w7om@arrl.net**

FOR SALE: **Alpha 99 with new tubes** and spare set. Excellent condition – cosmetic and performance. $3,995. Purchased new Alpha 9500. Jim K7EG – 253-939-6107 or 57jndenneny@comcast.net

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FOR SALE: **Excellent condition Flex 6700** with the GPSDO option is available. Will also include a marine grade GPS antenna, one of Stan's elite radio covers and a bal mic cable (TRS) (3 pin) with a Berringer mic. This is the only Flex 6xxx radio that allows you to work multiple bands using two antennas at the same time. Also required for the new diversity rx and future beam steering features. Package new would cost ~$8300. This package is $7000 shipped CONUS. I am downsizing my station. Greg - AB7R--360-320-3436 or ab7r at cablespeed dot com

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FOR SALE: Ten Tec Titan 425 2 KW Plus Amplifier. This is a great amp that served me well for many years before a failure caused me to purchase a replacement. I sent the amp and power supply to Ten Tec and they found that the power transformer had shorted. After a VERY pricey repair and complete tune up and alignment, the amp is once again in A-1 shape. It is still in the factory shipping boxes from Ten Tec and is ready for a new home. I have a spare set of 3CX800A7 Eimac tubes that were acquired, but they are pulls and have never been confirmed as good. I will include these tubes with the amp at no extra charge. If you'd like to know more about the amp, read the reviews on E-Ham. Amp is currently wired for 220VAC and I would not try to operate it from 110VAC as it draws too much current. I am asking $2250.00 for the whole package. I can ship at your cost or you can come and pickup at my QTH in Hansville. Contact Rich, W6RS, at 360-881-0720.

FOR SALE: **W2IHY IPlus Audio Switch**--Imagine simply turning a switch to send your rack audio or W2IHY audio to one of three radios, and at the same time having the PTT, amplifier and speaker connections all ready to go. This is a no brainer for the rack audio enthusiast who just wants to switch and play. Connect it all up once and then forget it. Comes with 2 Icom cables and one Yasue cable $160.00 (Currently sells for $239.99)

Mobile Equipment

West Mountain CLRspkr ClearSpeech® DSP Noise Reduction Speaker $140.00 (Currently sells for $219.95)

SGC ADSP2 Speaker (SG-7014)--$75.00 (Out of production)

Turbo Tuner 2 (Icom)b--Screwdriver antenna automatic tuner--$200.00 (Currently sells for $309.00)

For all of the above, contact Mel, N7GCO at n7gcodx@gmail.com

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FOR SALE: **Palstar AT-1KP** 1200 PEP tuner--$ 300.00--**AL-811H** amplifier--$ 500.00. Contact Jim,WA7SRZ at roccoj1@frontier.com

TOTEM TABLOID
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