



MICH-A-CON

Iron Mountain,
Dickinson County, Mich

JUNE 2015

Meeting Reminder: Second Wednesday of the Month

Which is **June 10, 2015** at **06:30 PM** at the **Dickinson Library, Iron Mountain.**

Please be there and support the cause of Amateur Radio.

From The President

Since I will be missing the next meeting on **Wednesday at 6:30**, (notice the 6:30 starting time), I will use these "Words" as an opportunity to discuss Field Day 2015. Again, we will be operating from the Veterans Memorial pavilion atop Pine Mountain.

First, a few comments about last year. Our score, as reported by the ARRL site, was adjusted to 2,952 points. We submitted 666 Qs and 2,932 points. They found an additional 10 Qs. Must have been an error on my part. I can barely balance my checkbook! HI!

We were 7th in the state in 2A. All of the clubs ahead of us were from the Lower Peninsula with more members operating. If I would have operated more in the first two hours, if I hadn't wasted an hour trying to find a problem with my digital interface, and if we would have had 200 extra points for traffic handling, we could have easily moved up a place or two.

There has been some discussion about entering as 3A this year. The #1 3A last year was W8MAA, the Central Michigan ARC in Lansing, with 26 members participating. They had 810 Qs for 4,032 points. I'm sure it isn't impossible for us to compete with their effort.

It will be imperative that we have the club beam in the air this year. Our 40 and 20 meter signals would be much better and it would allow us to hold our CQ frequency longer. Of course this depends on the state of our trailer construction by Field Day weekend.

I know that there have been negative comments, in the past, about my RTTY signal causing havoc in some other transceivers but those RTTY contacts, like CW contacts are worth 2 points. SSB contacts are only 1 point. I will do my best to stay out of other radios and a beam might help.

We should run a GOTA station this year. We get at least 60 extra points for GOTA contacts.

Inside this issue:

<i>From The President</i>	1
<i>Secretary Report</i>	2
<i>News....</i>	4
<i>NC 183</i>	4
<i>ARRL Bulletin 19</i>	5
<i>ARRL Michigan Section News</i>	6
<i>ARRL Dales Tales</i>	9
<i>Propagation Bulletin</i>	12
<i>ARRL DX Report</i>	14
<i>Q Code Table</i>	16
<i>Just for Fun</i>	21
<i>Classified</i>	22
<i>Local Area Hamfest</i>	23
<i>Links and Stuff</i>	24
<i>About Our Club</i>	25
<i>DX Code Conduct</i>	26
<i>Membership List</i>	26
<i>Membership Form</i>	28

Friday, June 26th will be wire antenna erection time. Also, Dana, W8BEY, will meet with me at the van to load antenna materials and the generator at 1:00. Further discussion of Friday will probably be held at the next meeting.

Saturday, June 27th, at 11:00, we will have our club picnic. Necessary food items will be determined at the next meeting.

I would hope that all stations will be ready to go at 1:00 on Saturday, June 27th.

Bring your "skeeter" dope!

73,
Tom W8JWN

MICH-A-CON AMATEUR RADIO CLUB MINUTES OF May 12, 2015

President Tom Martin called the meeting to order at 7:00 pm.

Secretary Report

Minutes of the April 8th meeting were read and approved.

Treasurer Report

Balances as of May 8, 2015

Checking -\$2.57

Regular Savings -\$2513.83 of which \$1652.43 is in the trailer fund.

Repeater Savings - \$523.06

Cash - \$17.00

Repeater Report

The new repeater has been programmed, andd works fine. The controller set- is still a work in progress.

The old repeater was locked-out recently. It is believed to be an issue related to Echolink. It seems to have worked itself out.

Jared Paul will get a cheatsheet out to club members, soon, so they can resolve any Echolink- related issues.

Old Business

Tm Martin is now the trustee for the club callsign, having taken over from Mike Bray.

The National receiver, that was given to Red from Three Lakes, has been restored and looks like new.

The Thursday night CW net has been discontinued for the summer. It will resume in the Fall.



Dave Thomas and Terry Moriarity reported that the antenna trailer should be ready for Field Day.

A motion by Scott Jarmusch (Dana Bey, second), to take \$400 from the Trailer Fund to pay for materials needed to prepare the antenna trailer, was approved unanimously.

The club has not picked-up the hazer donated by Don and Kathy Falls, yet.

New Business

Plans for Field Day will be finalized at the June meeting. It appears we will be 3A. There should be plenty of radios and antennas available. Jared Paul reported that he has tried net working the N3FJP logging program, using wifi, and it works fine. It was felt that we should test the computers before Field Day. We should be able to put antennas up on Friday, June 26, at 1:00 PM.

Donations for Field Day will be helpful. Tom Martin will get \$50.00, in gasoline, from LaFaive Oil.

The June meeting will begin at 6:30, due to summer hours at the library.

The club will probably not be activating a lighthouse during Lighthouse and Lightship Week end, unless it is a last-decision.

Dana Bey reported that he has a new vanity callsign. He is now W8BEY.

The 50-50 drawing was won by Dana Bey. He donated the proceeds back to the club. The club treasury was enriched by \$45.00.

Adjournment

The meeting was adjourned at 7:36 pm.

For the Good of the Order

Attendees reported on their recent activities.

Submitted by Joe Ferris

Attendees

Tom Martin, W8JWN

Scott Jarmusch, KA8TFF

Burton Armbrust, Sr., WB8EBS

Joe Ferris, KC9TQR

Gary Schafer, K4FMX

David Thomas, KG9Y

Tim Miller, N8TUM

Jared Paul, ND8M

Terry Moriarity, K9TRY

Joe Kombleicz, KB8ETK

Dana Bey, KD8POR

Joyce Williams, Visitor

News

The club's NC-183!

completed 183 with speaker it was a large undertaking but we goiter done

RED N9GHE





ARRL Bulletin 19 ARLB019
From ARRL Headquarters
Newington CT May 26, 2015
To all radio amateurs

ARLB019 FCC Eliminates Amateur Radio Vanity Call Sign Regulatory Fee

The FCC is eliminating the regulatory fee to apply for an Amateur Radio vanity call sign. The change will not go into effect, however, until required congressional notice has been given. This will take at least 90 days. As the Commission explained in a Notice of Proposed Rulemaking, Report and Order, and Order (MD Docket 14-92 and others), released May 21, it's a matter of simple economics.

"The Commission spends more resources on processing the regulatory fees and issuing refunds than the amount of the regulatory fee payment," the FCC said. "As our costs now exceed the regulatory fee, we are eliminating this regulatory fee category. The current vanity call sign regulatory fee is \$21.40, the highest in several years. The FCC reported there were 11,500 "payment units" in FY 2014 and estimated that it would collect nearly \$246,100.

In its 2014 Notice of Proposed Rule Making (NPRM) regarding the assessment and collection of regulatory fees for FY 2014, the FCC had sought comment on eliminating several smaller regulatory fee categories, such as those for vanity call signs and GMRS. It concluded in the subsequent Report and Order (R&O) last summer, however, that it did not have "adequate support to determine whether the cost of recovery and burden on small entities outweighed the collected revenue or whether eliminating the fee would adversely affect the licensing process."

The FCC said it has since had an opportunity to obtain and analyze support concerning the collection of the regulatory fees for Amateur Vanity and GMRS, which the FCC said comprise, on average, more than 20,000 licenses that are newly obtained or renewed, every 10 and 5 years, respectively.

"The Commission often receives multiple applications for the same vanity call sign, but only one applicant can be issued that call sign," the FCC explained. "In such cases, the Commission issues refunds for all the remaining applicants. In addition to staff and computer time to process payments and issue refunds, there is an additional expense to issue checks for the applicants who cannot be refunded electronically."

The Commission said that after it provides the required congressional notification, Amateur Radio vanity program applicants "will no longer be financially burdened with such payments, and the Commission will no longer incur these administrative costs that exceed the fee payments. The revenue that the Commission would otherwise collect from these regulatory fee categories will be proportionally assessed on other wireless fee categories."

The FCC said it would not issue refunds to licensees who paid the regulatory fee prior to its official elimination.

ARRL MICHIGAN SECTION NEWS

Annual Pilgrimage to Dayton in Full Swing

As this is being written, many thousands of ham radio operators are preparing to make their way to the world's greatest ham radio event, the Dayton Hamvention. This year's gathering will be special as always as the 100th Anniversary of QST Magazine will be celebrated. I hope to see you there!

Amateur Radio Parity Act of 2015: 55 Cosponsors — and Climbing

The Amateur Radio Parity Act of 2015 — also known as H.R.1301 — has attracted 55 cosponsors as of May 12.

The bill, introduced earlier this year in the US House of Representatives by Rep Adam Kinzinger (R-IL), would direct the FCC to extend its rules relating to reasonable accommodation of Amateur Service communications to private land use restrictions.

This weekend's Dayton Hamvention will offer an opportunity for ARRL to speak with individual radio amateurs and encourage them to seek their House member's support. ARRL Regulatory Information and Legislative Action Manager Dan Henderson, N1ND, said those stopping by his booth at ARRL EXPO, in about a minute, can have a letter addressed to their representative and personalized with their contact information, printed and ready to sign.

"The ARRL will collect these signed letters and have them hand-delivered to the various Congressional offices by our DC legislative action team," Henderson explained. "This easy-to-use process has succeeded at several major hamfests already this year and helped generate several hundred letters."

The latest lawmakers to sign aboard H.R. 1301 include Representatives Pete Olson of Texas, Ed Perlmutter of Colorado, John Shimkus of Illinois, Dr Brad Wenstrup of Ohio, and Roger Williams of Texas.

Henderson said that the typically high number of attendees at Dayton Hamvention presents an excel-

lent opportunity for Amateur Radio operators to get involved in the HR 1301 grassroots legislative effort.

Henderson said the League is also working on securing an original sponsor and co-sponsor for a companion Amateur Radio Parity Act bill in the US Senate. He encouraged all who may not be attending Hamvention to visit the ARRL's HR 1301 page, where they can download a letter that

can be personalized for your member of Congress. "Once you have printed and signed the letter, send it to ARRL Grassroots Letter program, 225 Main St, Newington CT 06111," Henderson said. "Once received these will be sorted and sent to the ARRL DC team for hand delivery on Capitol Hill."

"We have gotten off to a good start on H.R. 1301, but we have a long way to go," Henderson said. "We need every ARRL member to get involved with this important fight."

Note to Michigan hams: Representatives Benishek (MI-1) and Walberg (MI-7) have signed on as co-sponsors. If you have not yet sent them a note thanking them, please do so.

New Michigan Section Affiliated Club Coordinator

I am pleased to announce that Joe Miller, KJ8O of Troy, MI has accepted the appointment as MI Section Affiliated Club Coordinator. Joe comes to us with a wealth of experience in a number of volunteer positions within his local club and the Michigan Section. Affiliated clubs, Joe is there to assist you in a number of ways. You can reach Joe at kj8o@arrl.net.

I would like to thank Joe's predecessor, Chip Locke, WB8ALW from Portage for his excellent work during his term as ACC. Chip is on to bigger and better things and we wish him well.

2015 Michigan Affiliated Club Newsletter Contest



To Michigan ARRL Affiliated Clubs - Attention Club President & Club Newsletter Editor:

The Michigan Section Newsletter Contest will select the best club newsletter in the state of Michigan to compete with the best from Ohio and Kentucky in the ARRL Great Lakes Division at the forthcoming GLD convention in Columbus, OH on August 1, 2015 for the Joseph J. Phillips Newsletter of the Year Award.

Now the rules (These are consistent with the rules used in both Ohio and Kentucky):

A.) An eligible newsletter must be regularly published at least four (4) times per year by a Michigan ARRL affiliated Amateur Radio organization. A winning newsletter from the most recent contest (2013) is not eligible to participate.

B.) Each organization submitting a newsletter for the contest must enter any two (2) issues starting with January 2015 for judging. The deadline for entries is June 15, 2015 and all entries, including print only editions, must be in the hands of the Michigan Affiliated Club Coordinator (KJ8O) by that date.

C.) Electronic (Web based) produced newsletters may also enter. However, they must represent their printed newsletter in all formats. For example, if photos or clip art appear in the printed material, it must also appear in the electronic version as well.

D.) An impartial panel will judge the entries. They will be judging on style (15%), content (35%), service to membership (35%), and clarity of presentation (15%). Style means newsletter design of all pages. Content means amount of useful information contained in the newsletter. Service to members means amount of information using individual members' names. Clarity of presentation means readability of the newsletter including accuracy of English grammar.

E.) Entries will not be returned. The Michigan Affiliated Club Coordinator only serves to certify entries, to provide the judges with entries, and to announce their decisions.

F.) A first place and a second place winner in Michigan will receive a plaque. There will be an award for the winner of the MI/OH/KY contest.

G.) The judge's decision is final.

Hospitality Acknowledgements May 2, 2015

Cadillac Swap, Cadillac, MI It was a pleasure to attend your event and I thank you for the hospitality you have shown me.

Hamfests, Meetings and Section Staff Travel Plans

- May 15-17, 2015 Dayton Hamfest – WB8R
- May 23, 2015 TASYL's 50th Anniversary, Holt MI – WB8R & WA8EFK
- Jun 6, 2015 IRA Swap, Hudsonville, MI – WB8R
- Jun 7, 2015 Chelsea Swap and Shop, Chelsea, MI - WB8R
- Jun 13, 2014 LARS Swap, Newberry, MI - WB8R**
- Jun 20, 2015 Midland Hamfest, Midland, MI
- Jun 21, 2015 Monroe Hamfest, Monroe, MI - WB8R
- July 9-12, 2015 Michigan Section Family Outing, Hale, MI—WB8R , Section Staff
- July 18, 2015 GMARC Summer Trunk Swap, Utica, MI
- July 25, 2015 CMARC Trunk Sales, Lansing, MI - WB8R
- Aug 1, 2015 Spark in the Park, Wyoming, MI-WA8LMF
- Aug 1, 2015 GLD Hamfest, Columbus, OH – WB8R
- Aug 1, 2015 UP Hamfest, Escanaba, MI – W8CT**
- Sep 11, 2015 CMARC Meeting – WB8R
- Sep 13, 2014 GRAhamfest, Wyoming, MI – WB8R
- Sep 17, 2015 Monroe County Radio Comms Assn Meeting – WB8R

Michigan Section Traffic/ARPSC Nets (All times Local)

- MACS** - MI Amateur Communications System 3.952 1000 Daily
- UPN** – Upper Peninsula Net 3.921 1700 Daily; Noon Sunday

MIARPSC – MI Amateur Radio Public Service Corps 3.932 1700 Sunday Total net traffic reported: 836.

QMN – The Michigan Net 3.563 1830 and 2200 Daily

MITN – MI Traffic Net 3.952 1900 Daily

MIDTN – MI Digital Traffic Net 3.583 (Olivia 8/500) in waterfall 2000 Tues, Thurs, Sat

MIADS – MI ARES D-Star Net Reflector 24A Mon 2000

D8EN - District 8 Emergency Net 3.909 Wed 2100

GLETN – Great Lakes Emergency and Traffic Net 3.932 2000 Daily

MVTN – MI VHF Traffic Net IRA Link System 2100 Mon, Wed, Fri, Sun

NLEUP - Northern Lower Eastern UP Net 146.64- 18:30 Daily

SEMTN – SE MI Traffic Net 146.76- 2215 Daily

TMMTN – Thumb Mid-Michigan Traffic Net 147.30+ 2130 Mon - Sat

More information is available at <http://nts-mi.org/>.

Come join us on our traffic and public service nets.

Amateur Radio Public Service Corps (ARPSC) Activities:

Station Activity Reports (SAR) for April, 2015: WB9JSR 951, WB8WKQ 405, K8RDN 292, K8ED 212, KD8AAD 111, KC8BW 77, WN8QGV 74, N8FVM 50, AC8PI 49, WD8MWD 41, W8MSK 30, WD8USA 24, WB8RCR 17, WB8H 10, WB8R 10, WB8WJV 3, N8UN 3, N8OSL 2, KD8EBY 2, KD8LSM 1

Total SAR reported: 2364

BPL for April, 2015: WB9JSR 951.

Public Service Honor Roll (PSHR) April, 2015: WB8RCR 217, N8FVM 177, KC8YVF 156, WB9JSR 150, N8OSL 145, WB8R 140, WD8MWD 123, WB8WKQ 110, WD8USA 109, K8RDN 100, K8ED 90, KC8BW 90, KD8EBY 73, NE8B 68, WB8WJV 63, KD8AAD 57, WN8QGV 49, WB8H 41, KD8LSM 35, KC8NFN 12.

Net traffic for April, 2015: MACS 235, QMN 200, MITN 124, MVTN 109, UPN 50, SEMTN 44, GLETN 35, MIDTN 17, MCN 13, NLEUP 4, SCAN 3, D3AN 2, D5HN 0, D3DTN 0, BCEN 0, BARTS 0, MIARPSC 0, MIADS , GCRC , GRRC , D8EN , GARPSC .

If you are reporting monthly, you can see your PSHR eligibility status at <http://www.nts-mi.org/>. The full details are at:

<http://www.arrl.org/public-service-honor-roll>. This award recognizes the efforts of hams that are active in public service. Those reporting accumulate points for checking into nets, volunteering, holding Section

appointment(s) and handling message traffic.

EC's can see their reports of Form FSD-212 here:

http://ares-mi.org/ec_his.php If you send your report to WB8RCR and don't see it noted there, send a note to John to tell him your report has gone missing. EC's: Be sure to share your FSD 212 with your District EC, your ARES/RACES members and with your county's Emergency Manager and others in your jurisdiction who need to know what you and your ARES/RACES group are contributing to your community each month.

If you have difficulty knowing how to report and how to complete the FSD 212 form, assistance is as close as your District EC or your Section EC. If you don't know who these folks are, you can locate them here:

<http://ares-mi.org/ECcontact.php>. They stand ready to help you.

Until next time,

73,

Larry, WB8R

Dales Tales

Greetings everyone, welcome to "Dale's Tales" for June 2015.

Honors: Michigan Section Manager Larry Camp WB8R and I recently had the opportunity to attend The Auto State Young Ladies (TASYLs) 50th Anniversary luncheon in Holt, MI. We were able to present congratulatory letters from the Section Managers from Ohio, Kentucky and Michigan as well as a Congratulatory Certificate from the Michigan Section and a Commemorative Plaque from the hams in the Great Lakes Division. TASYLS presented several awards, honoring Charter Members and long serving members. Beverley Stoner K8ZJU, was recognized as a Founding Member and honored as 50 year members were: Rosemary Davidson WA8VXE, Myriam Gregg K8ILN, and Verline Ferris K18V. TASYLS holds a regular weekly net for YLs on 3940 kHz, each Thursday at 0900 local time.

Convention: The "target" is Columbus, OH for the ARRL 2015 Great Lakes Division Convention. The date is August 1. The Voice of Aladdin Amateur Radio Club will serve as hosts this year. Forums will include DX, NVIS, Digital Voice, ARES, HF Sound Card Modes, OSSBN/NTS and there will be on-site VE testing. Check the Division Web pages at <http://arrl-greatlakes.org/> for updates.

Special Event: The Museum Ships on the Air Special Event will occur over a 48 hour period on the weekend of June 5-7, 2015. The times are 0000 Z June 6 thru 2359 Z June 7. There will be a collection of over 75 actual Ships and Museum Sites from around the world participating. Included are many of World War II Historical Vessels with the Battleship New Jersey, NJ2BB, sponsor of the event. Working 15 different participating ships will earn you a certificate. Additional information about the Museum Ships Operating Event can be found on The Battleship New Jersey Amateur Radio Station's website <http://www.nj2bb.org/museum/>

A Michigan Club, The Ships Amateur Radio Club, will be sponsoring a Special Award during the event. It requires contact with the 5 ships representing the Great Lakes. The WAGL Award, "Worked All Great Lakes" is

commemorating the Light Ship Huron (K8H), SS Col Schoonmaker (K8E), SS Milwaukee Clipper (K8M), SS Edmund Fitzgerald (K8S) and the US Army LT-5 Tug Boat (K8O). Information is available at

<http://ships-wagl.com/> or on QRZ for those call signs. 21 Hams will be operating portable style for up to 16 hours each day at 5 different Great Lake sites either where the ships are located or at the Great Lakes Shipwreck Historical Society. Additional Information is on their web page <http://ships-wagl.com/>.

All QSL requests via W8CDB. For those energetic stations working all five ships with the K8* call, they will have a downloadable certificate, the "WAGL" (pronounced "Waggle") or "Worked All Great Lakes."

Special Event: The Alger and Lake Effect ARC's are joining forces during the weekend of June 6-7 to put on a Trails Day on the Air event at Muskallonge State Park, east of Grand Marais and NW of Newberry. Station N8T will be operating sideband and PSK-31 both days. The North Country Trail (NCT) actually runs through the park and the Superior Shoreline Chapter of the North Country Trail Ass'n. will have an information booth and be offering public hikes along the NCT. At least one hour of Hellschreiber is planned each day, too, for the really odd ducks out there. Maybe even some 6-meter if someone wants to try a sked.

Comments from our Vice Director, Tom W8WTD as he looks back on the Dayton Hamvention®:

Whatever trends are happening in ham radio, you can find them at the Dayton Hamvention. For that matter, you can find all the essential elements of ham radio there, as well. Emergency communications? The ARES forum, and many exhibits and vendors dedicated to making sure we're well prepared. Advancement of the radio art? Of course. New products, but in many more ways, hams teaching hams about new discoveries. Training? Lots of forums intended to help the new

hams, as well as the more experienced, how to do things better.

International Goodwill? Ohio Section Manager Scott, N8SY, had a map at his table showing 72 countries being represented.

At the heart of all of this is hams meeting other hams, some for the first time, some for the hundredth time, sharing information and friendship. I had a great time at the ARRL booth, getting to know more people from the Great Lakes Division, and hearing about what they do. Making sure we connect with each other on our projects is very important. Sometimes, information that people in one part of the Division might need is similar to what others from another part of the Division have already been working on.

Dale WA8EFK will no doubt mention the importance of House Bill 1301, the "Amateur Radio Parity Act," and the impact it can make on ham radio for all of us. It was encouraging to see the number of people who stopped by the booth to sign a letter to their Congressman. If you didn't make it to Dayton, you can still help by going to the ARRL website and following the instructions there.

I love working DX, and I don't do enough of it. It's even better to meet some people in person. Friday I had the chance for a nice chat over lunch with people from the Radio Society of Great Britain.

Saturday, I met a young man from Argentina, and helped him find the right person to work on an issue with a certificate for a friend of his. And these were just a few of the many people with DX calls that I saw during the weekend.

We should all be grateful for the work done at the ARRL Lab. They provide a valuable service to the hobby by their rigorous testing and experimenting. I had a chance to work with some of them for a few hours on Saturday as they tested HT's. Most of the equipment tested fell within specs. They'll use some of their results to pinpoint problems with certain types of equipment.

Finally, you'll be hearing more about this soon, but remember to mark your calendars for the Division Convention in August. Interesting forums, a flea market, and another good chance to connect with your fellows hams in the Division.

73, until next month, Tom W8WTD

House Bill 1301: Current FCC Regulations allow homeowners in deed-restricted residences to install TV receive only (TVRO) antennas.

This includes both dish antennas and conventional over the air antennas.

"Amateur Radio Parity Act" HB 1301 was introduced in the U.S. House of Representatives to direct the FCC to allow Radio Amateurs to have "parity" with the current TVRO antenna regulations and install reasonable ham radio antennas. At the recent ARRL EXPO at the Dayton Hamvention®, we were successful in preparing more than 800 signed letters from Radio Amateurs covering over 100 Congressional Districts.

These will now be hand delivered to their Congressmen. The ARRL Web Page <http://www.arrl.org/hr-1301> contains the complete text of the bill.

Hamfesting: Here is the current Great Lakes Division ARRL Sanctioned Hamfest Schedule for the next few weeks. These swaps have received their sanctioning approval from ARRL HQ at the time of this publication.

June 6 - IRA Hamfest - Hudsonville, MI

June 6 - Princeton Hamfest - Princeton, KY

June 6 - Fulton County - Tedrow, OH

June 7 - Chelsea - Chelsea, MI

June 13 - Luce County - Newberry, MI

June 20 - Milford - Milford, OH

June 20 - Midland - Midland, MI

June 21 - Monroe - Monroe, MI

July 10-11 - Michigan Summer Outing - Hale (Lupton) MI

July 11 - 20/9 Tailgate - Austintown, OH

July 18 - NOARS Fest - Elyria, OH

July 18 - GMARC Trunk Fest - Shelby Twp, MI

July 19 - Van Wert - Van Wert, OH

July 26 - CMARC Outdoor - Lansing, MI

July 26 - Portage - Randolph, OH

Hamfest officials: When you receive your "Hamfest Package" from ARRL, open it immediately. Read it over and look at all of the material you received. There is a form included to order additional material if you deem it appropriate.

Your Division and Section officials want to be at your events and we strive for insuring that the ARRL is properly represented at every ARRL Sanctioned Hamfest. Conflicts can arise, such as hamfests which might



occur on the same day. It is always a good idea for your hamfest chair to contact the Section Manager, Vice-Director or Director early in the planning stages to insure his attendance at the activity. This will allow time to prepare for alternate representation in the event of time conflicts.

The ARRL Director, Vice Director and Section Managers are available to visit local radio clubs and give presentations about ARRL and what is happening in your Section or Division. Please feel free to invite any of us for an "ARRL Night" at your club. Most of the talks are prepared in a video presentation format and can include a Q&A session as well. Advance scheduling really helps

and gives you an opportunity to publicize the event. See pages 15 & 16 of a recent QST for contact information.

73, see you on the bands.

Dale Williams WA8EFK
Director
Great Lakes Division

ARRL PROPAGATION BULLETIN

Propagation Forecast Bulletin 23 ARLP023 From Tad Cook, K7RA Seattle, WA June 5, 2015 To all radio amateurs

For seven days from May 28 through June 3, average daily sunspot numbers dropped from 56.1 the previous week to 34.3. Average daily solar flux barely changed from 97.6 to 97.8 over the same two weeks. But both numbers show a rising trend in recent days.

Predicted solar flux is 125 on June 5, 130 on June 6, 135 on June 7 to 11, then 130, 120 and 110 on June 12 to 14, 100 on June 15 and 16, 95 on June 17 to 22, 90 on June 23 to 25, 95 on June 26 to 28, 100 on June 29, then peaking at 120 on July 7 and 8 and dropping back below 100 after July 13.

Predicted planetary A index is 5, 8 and 12 on June 5 to 7 then 15, 25 and 15 on June 8 to 10, then 10, 5 and 8 on June 11 to 13, then 15 and 12 on June 14 and 15, and 5 on June 16 through July 3, then 10, 25, 20 and 12 on July 4 to 7.

OK1HH predicts the geomagnetic field will be quiet to unsettled June 5, quiet to active June 6 to 9, disturbed on June 10, quiet to unsettled June 11, mostly quiet June 12, quiet on June 13, active to disturbed June 14, quiet to active June 15 and 16, quiet on June 17 to 21, quiet to unsettled on June 22 to 25, quiet to active June 26, active to disturbed June 27, quiet June 28 to 30, and mostly quiet on July 1.

OK1HH predicts increasing solar wind on June 12, June 16 and 17 and June 27 and 28, with reduced prediction reliability during the latter two periods.

On May 28 the daily sunspot number was 11, the lowest non-zero sunspot number possible. This means there was just one sunspot group visible. There are no sunspot numbers between 1 and 10, because there is a value of 10 for each sunspot group, and a value of 1 is added for every sunspot in the group.

The last time the daily sunspot number was 11 was July 16, 2014 and the following day the sunspot number was

zero. Note that this was just a few months after the peak of cycle 24, which I reckon to be around February and March 2014 using our three month moving average.

Prior to that we look back to January 14 and 15, 2011 to find the sunspot number at 11 on both days, on the rising side of cycle 24.

Look here for a long range forecast of smoothed sunspot numbers:

<http://1.usa.gov/1HOVIDP> . These are International Sunspot numbers, on a different scale from the ones we present in this bulletin.

Note it shows the current cycle peaking in March and April 2014, just like our 3-month moving averages of daily sunspot numbers.

Four years in the future we see the next cycle minimum in summer 2019.

We keep track of a 3-month moving average of sunspot numbers to spot trends and figure our cycle peaks and minima. At the end of May we now know the most recent 3-month average.

The average centered on December 2014 through April 2015 is 107.8, 98.2, 78.1, 68.2 and 72.4, so we saw a small uptick in the latest numbers. Now to make us all feel better, I will cherry pick data.

The monthly sunspot averages for March, April and May 2015 were 61.7, 72.6 and 83. No foolin'.

Check out "Best NASA Footage of Giant Sunspots" here: <http://www.fromquarkstoquasars.com/best-nasa-footage-giant-sunspots/>

. Be sure to click each image to get a better look, and take the video sequence up to full HD resolution by clicking the gear in the lower right corner and selecting Quality: 1080 or 720.

Steve Sacco, NN4X of Saint Cloud, Florida passed along an interesting article about plasma tubes. Don't miss the comments:

<http://io9.com/large-plasma-tubes-confirmed-to-exist-above-the-earths-1708434105>



Jeff Hartley, N8II of Shepherdstown, West Virginia sent this report:

It has been a fun week on the radio with exceptional polar openings on 15 meters, the WPX CW contest and a 6 meter opening on double hop to VE5, UT, CO, AZ, and CA on Tuesday evening followed by a good Caribbean opening to Cuba, KP4, FG, and HI3 Wednesday morning.

Considering the solar flux has hovered just below or above 100, the polar path openings morning and evening have been amazing on 15 meters in the past week. Having the North Pole illuminated 24 hours a day makes for some great polar openings. The solar flux level seems to matter much less for good openings during the summer months than the rest of the year. And the K index has been kindly low.

During the WPX contest May 30 and 31, conditions on 15 meters may have been a bit below normal Saturday, but there was still plenty of DX to be worked and Sunday was considerably better except for a lack of strong JA signals from 0000Z-0200Z. Around 0200Z, my JA vs. Chinese QSOs were running neck and neck, very surprising. The band was open well to SE Asia and China every morning and evening. I worked about 20 total Chinese QSOs including several never heard before with prefixes such as BH4, BG3, BG6, BG8, and BG9 as well as working YE1, YB2, YC1, XW1 (heard every morning and evening), XV9, HS4, HS0, E21, 9V1, 9V50, and JT5. Many Far East signals were S9 or better.

In addition the South Pacific was loud all the way out to VK and ZL the first evening. I worked the Azores around 0200Z with no northern EU then, but right before the band closed I made long path EU QSO's with S50 and UR. Saturday morning at 1200Z started with only Eastern EU to Central Asia coming thru, with western EU finally loud around 1245Z.

Stations in 7Z1 (Saudi Arabia), 4L8, and two A65 in the UAE were worked. By 1800Z, there were still plenty of loud big gun EU stations, but northern EU was gone along with Eastern EU north of UR and UA6.

By 2100Z, near midnight in Eastern EU, conditions had improved with loud signals from all over EU including

Scandinavians, then signals began fading fast around 2200Z.

Sunday was even better in our morning into the whole northern hemisphere including loud SE Asians and JA's and even the very poorly equipped EU stations were good copy from 1200 to 1500Z. EU was fading out by 2100Z, but I finished the last 15 minutes running JAs.

Conditions into Asia seemed even better in the late morning of June 2, working very loud prefixes YC8, YB0, 7K4 (Japan), JH1, and BD7.

Late morning on June 3 was also good with strong signals from EU Russia and RXOSA on 15 CW.

Last week during the Seattle International Film Festival I attended a screening of "The Russian Woodpecker", a documentary about the Soviet cold war era Duga 3 OTH HF RADAR that plagued HF radio users all over the world during the 1970s and 1980s. Like many of the festival films, the film maker attended the first showing and answered audience questions afterward.

The film was factual, but of course part of the story were the conspiracy theories which naturally arise in a society in which information is tightly controlled. The director told us he used a small helicopter drone to capture the wonderful high resolution close-up footage of the massive antenna system, which sits within the Chernobyl Exclusion Zone in Ukraine.

Among the impressive hardware seen in this film, some of my favorites were the large black rotary dial telephones left behind in the facility. I would love to have one, and still have a landline to hook it to.

See:

<http://www.sundance.org/projects/the-russian-woodpecker>

https://www.youtube.com/watch?v=9rd4ARsbg_0

For more information concerning radio propagation, see the ARRL Technical Information Service at <http://arrl.org/propagation-of-rf-signals>. For an explanation of the numbers used in this bulletin, see <http://arrl.org/the-sun-the-earth-the-ionosphere>. An archive of past propagation bulletins is at

<http://arrl.org/w1aw-bulletins-archive-propagation>.

More good information and tutorials on propagation are at <http://k9la.us/>.

Archives of the NOAA/USAF daily 45 day forecast for solar flux and planetary A index are in downloadable spreadsheet format at <http://bit.ly/1IBXtnG> and <http://bit.ly/1KQGbRm>.

Click on "Download this file" to download the archive and ignore the security warning about the file format.

Monthly propagation charts between four USA regions and twelve overseas locations are at <http://arrl.org/propagation>.

Instructions for starting or ending email distribution of ARRL bulletins are at <http://arrl.org/bulletins>.

Sunspot numbers for May 28 through June 3 were 11, 23, 27, 47, 38, 39, and 55, with a mean of 34.3. 10.7 cm flux was 93, 92.3, 95, 94.3, 100.4, 101, and 108.5, with a mean of 97.8. Estimated planetary A indices were 7, 7, 5, 5, 8, 3, and 4, with a mean of 5.6. Estimated mid-latitude A indices were 8, 5, 5, 6, 9, 4, and 5, with a mean of 6.

ARRL DX NEWS

DX Bulletin 22 ARLD022
From ARRL Headquarters
Newington CT June 4, 2015
To all radio amateurs

SB DX ARL ARLD022
ARLD022 DX news

This week's bulletin was made possible with information provided by 9M2PJU, N0KV, QRZ DX, the OPDX Bulletin, 425 DX News, The Daily DX, DXNL, Contest Corral from QST and the ARRL Contest Calendar and WA7BNM web sites. Thanks to all.

MONACO, 3A. Emanuele, IU2CIQ, Lorenzo, IZ1UJE and Andrea, IZ1ZHG are QRV as 3A/IU2CIQ until June 7. Activity is on the HF bands using SSB with some CW and RTTY. QSL direct via IZ1UJE.

MALDIVES, 8Q. Nobby, G0VJG is QRV as 8Q7CQ from Meedhupparu Island, IOTA AS-013, until June 18. Activity is on the HF bands and 6 meters using SSB and various digital modes. QSL via G4DFI.

WEST MALAYSIA, 9M2. Members of the 9M2SE Malaysian Special Expedition team are QRV from Tioman Island,

IOTA AS-046, until June 7. Activity is on 80, 40, 20, 15 and 10 meters. QSL via 9M2RDX.

THE GAMBIA, C5. Andre, C5YK has been active on 6 meters using CW between 1800 and 1900z. QSL via ON6EG.

BAHAMAS, C6. Operators AA7A, K2KW, W4KZY and WO7R will be QRV as C6ANS, C6ATA, C6AKX and C6AWO, respectively, from Mermaid Point in Ten Bay, Eleuthera, IOTA NA-001, Grid Square FL15wc, from June 7 to 15. Activity will be on 6 and 2 meters and 70 cm. They will be QRV as C6ATA in the upcoming ARRL June VHF contest. QSL via operators' instructions.

IRAN, EP. Operators Mohammad, EP3MIR, Mohammad, EP2LMA and Saeed, EP2LSH will be QRV as EP2C on June 7. QSL via operators instructions.

MOLDOVA, ER. Nigel, G3TXF is QRV as ER/G3TXF. He has been active on 17 meters using CW. His length of stay is unknown. QSL to home call.

PHILIPPINES, DU. Dindo, DV1UD is QRV as DV1UD/p from Batan Island, IOTA OC-093, until June 6 while on



work assignment at the Paga Asa Radar station. QSL via M00XO.

FRENCH GUIANA, FY. Christian, F5UII will be QRV as FY/F5UII from Kourou from June 8 to 12 while on work assignment. Activity will be in his spare time on the HF bands using SSB and RTTY. QSL to home call.

ENGLAND, G. Members of the Funes Amateur Radio Society are QRV with special event call GB125SL until the end of June to celebrate the 125th birthday of Stan Laurel. Activity is on the HF bands using SSB. QSL via G4USW.

MONGOLIA, JT. Special event station JV150ITU is QRV until the end of 2015 to celebrate the 150th anniversary of the ITU. QSL direct via JT1CD.

ALASKA, KL7. Jeff, KL2HD plans to be QRV as KL2HD/p from Amchitka Island, IOTA NA-070, from June 9 to 11. Activity will be on either 20 or 17 meters and depends on his work schedule. QSL to home call.

LITHUANIA, LY. Tino, DO3MXK and Ronny, DL1RNW will be QRV as LY/home calls from June 6 to 8. Activity will be on 6 and 2 meters using E-skip, Tropo and possibly EME. QSL to home calls.

MARKET REEF, OJ0. Sami, OH9GDT and Jussi, OH6ZZ plan to be QRV as OJ0B from June 9 to 15. This is a 2-meter EME and Meteor scatter activation. QSL via OH2BH.

GREECE, SV. Fred, PA1FJ will be QRV as SV8/PA1FJ/p from Chios, IOTA EU-049, from June 8 to 21. Activity will be on 40 to 6 meters using CW and SSB. QSL to home call.

AUSTRALIA, VK. Rob, VK4AAC is QRV as VK4AAC/5 from Kangaroo Island, IOTA OC-139, until August 25. Activity is on 40 and 20 meters using SSB. QSL to home call.

MONTERRAT, VP2M. Operators NOKV, WOZA, WOETT and WDOF will be QRV as VP2MKV from Gingerbread Hill, St. Peters, from June 10 to 19.

Activity will be on 80 to 2 meters using CW, SSB, RTTY and FSK441.

This includes being an entry in the upcoming ARRL June VHF contest from Grid Square FK86. QSL via operators' instructions.

THIS WEEKEND ON THE RADIO. The IARU Region 1 CW Field Day, RSGB National CW Field Day, 2015 Museum Ships Weekend, NCCC RTTY Sprint, NCCC Sprint CW Ladder, 10-10 International Open Season PSK31 Contest, PVRC Reunion, DigiFest, Wake-Up. QRP CW Sprint, VK Shires Contest, SEANET Contest, UKSMG Summer Contest, ADRAD Kayldall DMR Contest, Dutch Kingdom Contest and the Alabama QSO Party are all scheduled for this upcoming weekend.

The RSGB 80-Meter Club CW Championship, CWops Mini-CWT Test and NAQCC CW Sprint are scheduled for June 10. Please see June QST, page 86 and the ARRL and WA7BNM contest web sites for details.

In communication there tends to develop brevity to enhance transmission/reception such as slang, Q code, Z code, 10-code (to name a few).

The **Q code** is a standardized collection of three-letter message encodings, also known as a brevity code, all of which start with the letter "Q", initially developed for commercial radiotelegraph communication, and later adopted by other radio services, especially amateur radio. Although Q codes were created when ra-

dio used Morse code exclusively, they continued to be employed after the introduction of voice transmissions. To avoid confusion, transmitter call signs are restricted; while an embedded three-letter Q sequence may occur (for instance when requested by an amateur radio station dedicated to low-power operation), no country is ever issued an ITU prefix starting with "Q".

The International Q Code can be arranged in three

Q codes as adapted for use in amateur radio

Code	Question	Answer or Statement
QLE	What is your expected signal?	The expected signal is low...
QRA	What is the name (or call sign) of your station?	The name (or call sign) of my station is ...
QRG	Will you tell me my exact frequency (or that of ...)?	Your exact frequency (or that of ...) is ... kHz (or MHz).
QRH	Does my frequency vary?	Your frequency varies.
QRI	How is the tone of my transmission?	The tone of your transmission is (1. Good; 2. Variable; 3. Bad)
QRJ	How many voice contacts do you want to make?	I want to make ... voice contacts.
QRK	What is the readability of my signals (or those of ...)?	The readability of your signals (or those of ...) is ... (1 to 5).
QRL	Are you busy?	I am busy. (or I am busy with ...) Please do not interfere.
QRM	Do you have interference?	I have interference.
QRN	Are you troubled by static?	I am troubled by static.
QRO	Shall I increase power?	Increase power.
QRP	Shall I decrease power?	Decrease power.
QRQ	Shall I send faster?	Send faster (... wpm)
QRS	Shall I send more slowly?	Send more slowly (... wpm)
QRT	Shall I cease or suspend operation?/ shutoff the radio	I am suspending operation. /shutting off the radio
QRU	Have you anything for me?	I have nothing for you.



Code	Question	Answer or Statement
QRV	Are you ready?	I am ready.
QRW	Shall I inform ... that you are calling him on ... kHz (or MHz)?	Please inform ... that I am calling him on ... kHz (or MHz).
QRX	Shall I standby / When will you call me again?	Please standby / I will call you again at ... (hours) on ... kHz (or MHz)
QRZ	Who is calling me?	You are being called by ... on ... kHz (or MHz)
QSA	What is the strength of my signals (or those of ...)?	The strength of your signals (or those of ...) is ... (1 to 5).
QSB	Are my signals fading?	Your signals are fading.
QSD	Is my keying defective?	Your keying is defective.
QSG	Shall I send ... telegrams (messages) at a time?	Send ... telegrams (messages) at a time.
QSK	Can you hear me between your signals?	I can hear you between my signals.
QSL	Can you acknowledge receipt?	I am acknowledging receipt.
QSM	Shall I repeat the last telegram (message) which I sent you, or some previous telegram (message)?	Repeat the last telegram (message) which you sent me (or telegram(s) (message(s)) numbers(s) ...).
QSN	Did you hear me (or ... (call sign)) on .. kHz (or MHz)?	I did hear you (or ... (call sign)) on ... kHz (or MHz).
<u>QSO</u>	Can you communicate with ... direct or by relay?	I can communicate with ... direct (or by relay through ...).
QSP	Will you relay a message to ...?	I will relay a message to
QSR	Do you want me to repeat my call?	Please repeat your call; I did not hear you.
QST	–	Here is a broadcast message to all amateurs.
QSU	Shall I send or reply on this frequency (or on ... kHz (or MHz))?	Send or reply on this frequency (or on ... kHz (or MHz)).
QSW	Will you send on this frequency (or on ... kHz (or MHz))?	I am going to send on this frequency (or on ... kHz (or MHz)).
QSX	Will you listen to ... (call sign(s)) on ... kHz (or MHz)?	I am listening to ... (call sign(s)) on ... kHz (or MHz)
QSY	Shall I change to transmission on another frequency?	Change to transmission on another frequency (or on ... kHz (or MHz)).

Code	Question	Answer or Statement
QSZ	Shall I send each word or group more than once?	Send each word or group twice (or ... times).
QTA	Shall I cancel telegram (message) No. ... as if it had not been sent?	Cancel telegram (message) No. ... as if it had not been sent.
QTC	How many telegrams (messages) have you to send?	I have ... telegrams (messages) for you (or for ...).
QTH	What is your position in latitude and longitude (or according to any other indication)?	My position is ... latitude...longitude
QTR	What is the correct time?	The correct time is ... hours
QTU	At what times are you operating?	I am operating from ... to ... hours.
QTX	Will you keep your station open for further communication with me until further notice (or until ... hours)?	I will keep my station open for further communication with you until further notice (or until ... hours).
QUA	Have you news of ... (call sign)?	Here is news of ... (call sign).
QUC	What is the number (or other indication) of the last message you received from me (or from ... (call sign))?	The number (or other indication) of the last message I received from you (or from ... (call sign)) is ...
QUD	Have you received the urgency signal sent by ... (call sign of mobile station)?	I have received the urgency signal sent by ... (call sign of mobile station) at ... hours.
QUE	Can you speak in ... (language), – with interpreter if necessary; if so, on what frequencies?	I can speak in ... (language) on ... kHz (or MHz).
QUF	Have you received the distress signal sent by ... (call sign of mobile station)?	I have received the distress signal sent by ... (call sign of mobile station) at ... hours.



Talk about pile up

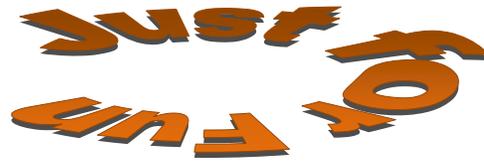
Thanks: Bob Meyers

ARRL NTS Nets (QN-)

Code	Question ?	Answer or Advice
QNA		Answer in prearranged order
QNB		Act as relay station between ... and ...
QNC		All net stations copy. I have a message for all net stations
QND		Net is directed (controlled by net control station)
QNE		Entire net stand by
QNF		Net is free (not controlled)

ARRL NTS Nets (QN-) Continued

Code	Question ?	Answer or Advice
QNG		Take over as net control station
QNH		Your net frequency is high
QNI		Net stations report in, <i>or</i> I am reporting into the net
QNJ		Can you copy me
QNK		Transmit messages for ... to ...
QNL		Your net frequency is low
QNM		You are QRMing the net. Stand by
QNN		Net control station is ... <i>or</i> What station has net control
QNO		Station is leaving the net
QNP		Unable to copy you <i>or</i> Unable to copy ...
QNQ		Move frequency to ... and wait for ... to finish handling traffic. Then send him traffic for ...
QNR		Answer ... and receive traffic
QNS		Following stations are in the net (Follow with list), when used by Net Control Station <i>or</i> Request list of stations in the net, when used by other net mem- bers
QNT		I request permission to leave the net for ... minutes
QNU		The net has traffic for you. Stand by
QNV		Establish contact with ... on the frequency. If successful, move to ... and send him traffic for ...
QNW		How do I route messages for ...
QNX		You are excused from the net
QNY		Shift to another frequency, or to ... kHz, to clear traffic with ...
QNZ		Zero beat your signal with mine
QST		CQ ARRL members



What's my Q?

Match the Code with the Answer/Response on the Right

CODE
1. QSM
2. QRT
3. QRL
4. QSA
5. QRQ
6. QRI
7. QSL
8. QSZ
9. QRV
10. QNA

ANSWER OR RESPONSE
A. The tone of your transmission is
B. I am ready
C. Suspending Operation
D. The strength of your signal is
E. Acknowledging Receipt
F. Answer in prearranged order (Net)
G. Repeat last message
H. Send faster
I. Send each word twice
J. I am busy

1. G	5. H
2. C	4. D
3. J	3. I
4. B	2. E
5. F	1. A
6. A	10. F
7. E	9. B
8. I	8. I
9. B	7. E
10. F	6. A
Answer:	

CLASSIFIED

K8DDB

Items For Sale

Prices as of March 3, 2015

All prices are negotiable, items sold "as is", shipping is not included
(I would prefer to sell the bulky items locally)

Cell phone: (906) 221-1550 or Email: mikebray@chartermi.net

Radio Gear:

Elecraft K3 Transceiver (serial # 5093 purchased 1/11/2011) – 100 watts, w/ATU, general coverage Rx module, filters for - 6 khz, 400 hz, 250 hz -includes manuals,

Heil Proset-K2 boom headset for the K3/K2 (Heil iC element) and book "The Elecraft K3" by Fred Cady.

Asking \$1,999

Ten- Tec Centurion Model 422 Linear Amp – Two 3-500Z tubes – 1300 watts SSB, 1000 watts CW, 50% duty cycle. Tubes have very few hours on them as I operate primarily QRP - (includes manual)

Asking \$850

Viking 6n2 Transmitter

Asking \$19

Regulated CB Power Supply

Asking \$5

Test Equipment:

RCA Type WO-33A Oscilloscope

WG-349A Direct/Low Capacitance Probe

Instruction manual

Asking \$9

B&K Model 162 Transistor/F.E.T. Tester

With probe and manual

Asking \$39

Miscellaneous:

Scanner - Uniden Bearcat BC-210XL 18 channel scanning radio w/owner's manual and 1996 Radio Shack Police Call Plus Frequency Guide for Michigan and Ohio - Asking \$25

- CB Radio - Old 1970s Radio Shack Realistic TRC-55 console CB (23 channel AM) with digital clock (which no longer works) but its set at the perfect time for CB, 10:04 good buddy! Comes with hand mic and nostalgia of "Smokey and the Bandit" days - Asking \$25

UP AREA HAM FEST INFORMATION

Thunder Bay
Amateur Radio
Club

Find us on the web at:
<http://ThunderBayARC.org>



Alpena's 2nd Annual Swap meet!
October 10th, 2015
9:00 AM until Noon

See <http://ThunderBayARC.org> for updates and details on the Swap meet.

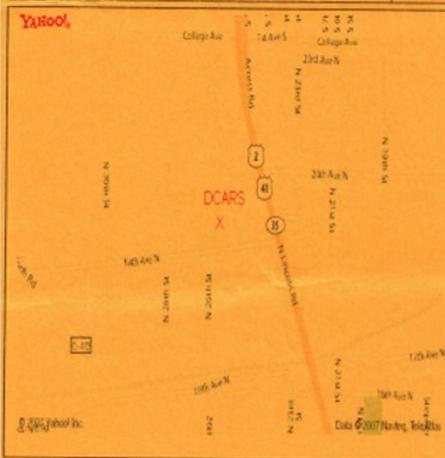
Make a Fall trip to Alpena, Michigan. Take in a great Swap and see some of the other sites and events in the Alpena area on that weekend.
<http://lighthousefestival.org/> <http://www.alpenashipwrecktours.com/> <http://thunderbay.noaa.gov/>

U.P. Hamfest 2015

Quick Reference Guide

Date – Saturday, August 1 st 2015	Swap Info – First table is Free. Each additional table \$5.00
Time – 9:00 am to 2:00 pm EDST	Setup – Friday from 6 pm to 9 pm and Sat from 7 am to 9 am
Where – Bay de Noc Community College 2001 N. Lincoln Rd. Escanaba MI 49829	Talk In – 147.150 (+600 / 100 PL)
Coordinates – N45°46.226 W087°05.087	Web Site – http://dcars.org/u-p-hamfest/

THIS
Space
Reserved
For
You



- ### Events
- U.P. Net Meeting
 - QCWA Chapter 219 Meeting
 - Upper Peninsula Amateur Radio Repeater Association (UPARRA)
 - U.P. ARES Meeting
 - Vendors & Swap
 - Food



LINKS AND STUFF

Under re-construction. Watch for the orange barrels

*Delta County Amateur Radio
Escanaba, MI
www.dcars.org*

*Cooper Country Radio Amateur
Dollar Bay, MI
www.ccras.net*

*Cooper Country Radio Amateur
Dollar Bay, MI
www.ccras.net*

Area Repeaters

Escanaba 147.15+	100.0
	145.13- No PL
Wells 444.30+	No PL
Gladstone	
IRLP 4013 147.55 Smpx	100.0
Champion 146.82-	100.0
Cooks 146.70 -	110.9
GrdMarais 147.195+	No PL
Gwinn 146.64	100.0
Iron Mtn 146.85 -	No PL
Iron River 145.17-	107.2
Ishpeming 146.91-	No PL
IRLP 8993 443.50+	100.0
Manistique 146.79 -	No PL
Marquette 146.97 -	No PL
	147.27+ 100.0
	444.80+
	No PL
Menominee 147.00+	107.2
Newberry 146.61 +	No PL
	147.09+ 114.8
Republic 147.09+	No PL
Trenary 147.03 +	100.0
Wetmore 145.41-	100.0

ARRL Affiliated Club Area Nets

UP Net 3921khz
Daily 5pm EST
Sunday Noon EST

UP CW NET 3590khz
Sunday 7pm EST

160 Net 1895khz
Everynight 0100UTC
Dailey 0600UTC

Midcars 7258khz
Daily 0730am EST
0200pm EST

Outhcars Node 9614
Saturday 0900am EST

UP Echolink Node 9617
Sunday 8pm EST

Delta County ARES
147.150
Sunday 7pm EST

Mich-A-Con Social
146.850
Thursday 0630pm CST
ARES follows

ARRL WEB PAGE: <http://www.arrl.org>

ARRLMICHIGAN: <http://www.arrl-mi.org/>

US REPEATERS: <http://www.usrepeaters.com>

Tropospheric Ducting Forecasts:
<http://www.d/infocentre.com/tropo.html>

MICH-A-CON : <http://www.qsl.net/ka1ddb>

FCC Universal Licensing System: <http://wireless.fcc.gov/uls/>

QTH Com: <http://www.qth.com/>

QRZ <http://www.qrz.com/>

E Ham Net <http://www.eham.net/>

UP Skywarn: <http://kera-mi.net/skywarn/>

ABOUT OUR CLUB....**Club Officers****President:**

Tom Martin, W8JWN
(906) 774-5463
tmartin@chartermi.net

Vice President

Scott Jarmusch, KA8TFF

Secretary:

Joe Ferris, KC9TQR
irferris@borderlandnet.net

Treasurer:

Burt Armbrust, WB8EB
(906) 774-8383
Wb8ebs@yahoo.com

Editor:

Tom Heyboer, KC8TH
(906) 779-0481
Heyboer.tom@gmail.com

Web Editor:

Tom Heyboer, KC8TH
(906) 779-0481
Heyboer.tom@gmail.com

Activities:

Second Wednesday of the month the Mich-A-Con Amateur Radio Club meets in the Dickinson Country Library at 7:00 P.M. Winter or 6:30 PM Summer

Visitors and prospective members are always welcome!

Club Repeater:

The Club maintains two repeaters which are located on Pine Mountain (Elevation 1650 ft) in Iron Mountain with tower and facilities provided by the Wisconsin Electric Power Co.

The range of the 2 meter repeater is about 40 miles. The range of the 440 MHZ repeater is about 25 miles. Both are under normal conditions, depending upon terrain.

The Repeater Specifications:

The 146.85 repeater is a GR Master Pro, 40 watt output. The 440 MHZ repeater is a GE Master Pro, 80 watt output. The repeaters share a Diamond dual band antenna at a tower height of 125 ft.

We're on the Web!

<http://www.qsl.net/ka1ddb/>

Previous editions of the Newsletter can be accessed by a link on the **news** page

From Your Newsletter Editor

Thank you to those contributors and critiques.
Welcome your articles - They make the Newsletter.

For those not getting the Newsletter, it is because I have an incorrect email address. Please give me the correct address.

*Hear on any Events in the UP / Wisconsin Area
Send Info to the Newsletter Editor so the Info can get out*

The following is referenced from <http://www.dx-code.org>

DX Code Of Conduct

I will listen, and listen, and then listen again before calling.

I will only call if I can copy the DX station properly.

I will not trust the DX cluster and will be sure of the DX station's call sign before calling.

I will not interfere with the DX station nor anyone calling and will never tune up on the DX frequency or in the QSX slot.

I will wait for the DX station to end a contact before I call.

I will always send my full call sign.

I will call and then listen for a reasonable interval. I will not call continuously.

I will not transmit when the DX operator calls another call sign, not mine.

I will not transmit when the DX operator queries a call sign not like mine.

I will not transmit when the DX station requests geographic areas other than mine.

When the DX operator calls me, I will not repeat my call sign unless I think he has copied it incorrectly.

I will be thankful if and when I do make a contact.

I will respect my fellow hams and conduct myself so as to earn their respect.

MEMBERSHIP

Call Sign	Last Name	First Name	City	Phone	Email
KD8GHG	AHO	ROGER	QUINNESEC	906-774-3552	rogeraa@chartermi.net
N8WQG	ANDERSON	LE ROY	CRYSTAL FALLS	906-265-3960	n8wqq@fast-air.net
WB8EBS	ARMBRUST	BURT	QUINNESEC	906-774-8383	wb8ebs@yahoo.com
W8XBO	ARMBRUST	ED	IRON MOUNTAIN	906-779-5593	w8xbo@sbcglobal.net
KC9KVP	BAKER	BETH	NIAGARA		
KB9AVX	BAKER	SCOTT	NIAGARA	715-251-1944	kb9avx@yahoo.com
KD8POR	BEY	DANA L.	KINGSFORD	906-774-7937	lst797@charter.net
W9MB	BOILEAU	MIKE	NIAGARA	906-563-1350	w9mb@uplogon.com
K8DDB	BRAY	MIKE	VULCAN	906-563-7020	mikebray@chartermi.net
KC9SBY	BROSCHART	FRED	NIAGARA	715-251-1423	broschart.fred@gmail.com
KE9L	CASWELL	SKIP	IRON MOUNTAIN	906-774-3371	acaswell4238@charter.net
KD8GLO	COSTA	ART	KINGSFORD	906-774-7388	catraxcavator@hotmail.com
KC9ZBC	DOLATOWSKI	SCOTT	GOODMAN	715-633-1006	kc9zbc@live.com



Call Sign	Last Name	First Name	City	Phone	Email
KC8CKX	FAULKNER	JAMES	FOSTER CITY		jcbearit@yahoo.com
KC9TQR	FERRIS	JOE	FLORENCE	517-589-4386	jrferris@borderlandnet.net
N9MBG	FRY	EDWARD	PEMBINE	906-221-7307	efry@centrylink.net
KG8NK	GEMBOLIS	LOUIS	ISHPEMING	906-485-5442	lgembolis@chartermi.net
KD8VTS	GRABOWSKI	DEBRA	CRYSTAL FALLS	906-284-2450	kd8vts@gmail.com
KD8VTT	GRABOWSKI	WILLIAM	CRYSTAL FALLS		
KD8WAK	HEBERT	STEVEN	IRON MOUNTAIN	906-221-2507	viparsteve@yahoo.com
KC8TH	HEYBOER	TOM	IRON MOUNTAIN	906-779-0481	heyboer.tom@gmail.com
N8ATS	HOLMES	SAM	PEMBINE	906-322-8507	chopsam@centrylink.com
KA8TFF	JARMUSCH	SCOTT	IRON MOUNTAIN		
HC8SZP	JOHNSON	DEBBY	IRON MOUNTAIN	906-396-9323	
KC8RYY	JOHNSON	STEVE	IRON MOUNTAIN	906-396-5292	kc8ryy@outlook.com
KB9EMU	KNUTSON	WILLIAM	FENCE	715-336-2250	dknutson54@gmail.com
KB8ETK	KOMBLEVICZ	JOSEPH	IRON MOUNTAIN	906-774-4094	kombleviczj@charter.net
W8JWN	MARTIN	THOMAS	IRON MOUNTAIN	906-774-5463	tmartin@chartermi.net
KC9KWS	MAXWELL	RED	FLORENCE	574-855-8666	kc9kws@yahoo.com
WA8FXQ	MEYERS	BOB	VULCAN	906-390-0119	meyersb@uplogon.com
KC8LRP	MEYERS	MARGE	VULCAN	906-396-8913	mgmeyer@uplogon.com
KD8GLP	MIERAS	NATE	KINGSFORD	616-240-6919	kd8glo@gmail.com
N8TUM	MILLER	TIMOTHY	MILWAUKEE		
K9TRY	MORIARITY	TERRY	NIAGARA	715-251-1670	kb9zer@yahoo.com
ND8M	PAUL	JARED	NORWAY	989-660-9535	jaredpaul@me.com
KD8SZA	PAUL	MICHELLE	NORWAY		
KC9NFT	PERRON	BARRY	FLORENCE	715-887-2892	bperron2@netzero.com
KC8JRI	REED	GORDY	IRON MOUNTAIN	906-779-1254	gordyreed@charter.net
K8ABS	RIVERSIDE	JIM	IRON MOUNTAIN	906-458-0773	jriverside@charter.net
W8IFI	RYE	JIM	CRYSTAL FALLS	906-875-3582	jimrye@up.net
KC8JRH	SCHLITT	PETER	NORWAY	906-563-8126	peteschlitt@yahoo.com
KD8KUF	SCHULTZ	PAUL	KINGSFORD	906-774-8900	pauls@schultzequipment.com
KD8CCP	SKAUGE	STEVE	ISHPEMING	906-458-4798	kd8ccp@yahoo.com
KG9Y	THOMAS	DAVE	NIAGARA	715-251-1393	kg9y@arrl.net
KB8SPB	BILL	BERTOLDI	KINGSFORD		
KD8KUI	ADAM	DENNIS	IRON MOUNTAIN	906-774-8129	duferdoc@chartermi.net
KD8QEX	AMICANGELO	PERRY	VULCAN	906-563-8076	perryamicangelo@msn.com
K8SWX	BEURJEY	DENNIS	KINGSFORD	906-282-4440	dbeurjey@gmail.com
KC8QZG	DAKE	DAVE	NEWBERRY		-
KD8LQK	HULL	ADAM	NIAGARA	715-251-1302	hullar13@baycollege.edu
KD8SZA	LASEN	MICHELL	NORWAY	231-510-0202	myln1973@gmail.com
KB8YEU	O'BRION	JACK	NORWAY	906-396-3316	jobrion@sbcglobal.net
KD8DJK	SCHUTTE	JOE	VULCAN	906-563-8273	dschutte@uplogon.com



Please remit dues to:

**Burt Armbrust, WB8EBS
693 Cliff St
Quinnesec, Mi. 49876**

Name: _____

Call Sign: _____

Address: _____

City, State, Zip: _____, _____, _____

Email Address: _____

Phone: _____

ARRL Member? Yes _____ No _____

Please make check payable to: **Mich-A-Con ARC**

Annual dues for Full Membership -

Single \$20 __ Family \$30 __ Repeater Only \$10 __

If family membership, please list additional:

Names: _____

Call signs: _____

City, State, Zip: _____

Annual dues are Payable January 1st.

Dues for New Members are Pro-rated. Please remit \$1.67 per month for a Single membership or \$.50 per month for a Family membership.