



MICH-A-CON

Iron Mountain,
Dickinson County, Mich

January 2016

Meeting Reminder: Second Wednesday of the Month

Which is **January 13, 2016** at 07:00 PM at the Dickinson Library, Iron Mountain. **HAPPY NEW YEAR**

From The President

Happy 2016 to all of you!

Like so many other people who I have come in contact with the past week, I have been fighting a chest cold...hack, hack! It started a few days before New Years eve and is finally starting to abate. It was so bad last weekend that I only operated 13 hours in the ARRL RTTY RU, instead of the normal 30 hours.

I didn't find any new countries during the test but had a decent time. I did work some rare QRP DX. Jason, WK9U in Niagara, gave me a call. HI!

The station worked fine. I did have an issue with my lower beam but didn't need it. After the contest, I moved the coax to another port on the remote antenna relay box and it worked fine. I'll check that relay port in the spring.

Conditions weren't the best the A was 27 on Saturday afternoon. They improved on Sunday but 10 meters was poor as usual. There were very few stations heard on 10. I can't believe that 250 miles, Iron Mountain to Milwaukee, can make such a difference on 10 meters. Stations in the Milwaukee area have decent propagation and we can't hear any DX other than Brazil and a few Caribbean islands.

I would like to thank Burt, WB8EBS, for his many years as club treasurer. Until we find a replacement, I will be handling the books. Let's hope that someone comes forward soon. PLEASE!!

Our club Christmas party, actually it's just a dinner, will be on February 27. More info at the next meeting this Wednesday.

Also, at the next meeting, I will be collecting dues. Bring your checkbook, or cash if you prefer.

Stay warm and see you Wednesday at 7:00.

73, Tom W8JWN

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MICH-A-CON AMATEUR RADIO CLUB MINUTES OF November 11, 2015

Minutes of the December 9th, 2015 Meeting

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

Secretary Report

Minutes of the November 11th meeting were read and approved.

Treasurer Report

Balances as of December 9, 2015

****No report****

Repeater Report

Bob Meyers clarified the work done by WE Energies at our repeater site. Our new antenna was not moved, however the old two-meter antenna was moved out, from the tower. WE Energies mounted their new dish behind it.

Bob also increased the power on the two-meter repeater, from 60 watts to 90 watts, while he was at the site.

The noise level at the repeater site was discussed. The noise source is still undetermined. There are several possible sources in the area.

Dave Thomas brought the new repeater, the controller, and an amp to Bob Meyers. Bob hopes to have it installed soon.

It was noted that Marquette club still wants to link with our two-meter repeater using 440 MHz. We would have the ability to turn the link on and off.

Old Business

The repeaters at Dave Thomas's house were discussed. Dave felt we should keep an extra set of cavities. Bill Grabowski reported that Red, from Eagle River, expressed an interest in our surplus repeaters. A list of what we have available, and prices, will be made and communicated to him.

Burt Armbrust declined the re-nomination as club Treasurer made at the November meeting. Members thanked Burt for his many years of service as a club officer. The club is presently seeking a new Treasurer.

Tom Martin reported that QSL cards and certificates, from our Veterans Day special event, have



been sent out. Also, the K8V callsign has been applied for.

New Business

President Tom Martin reported that Schultz Equipment has been sold. We have six months to work out a deal with the new owners for storage of the club van. At this time, it is not known if we will be able to leave it there. It is possible that we will have to find another location for it.

A delayed holiday party will be planned for the second Saturday in March. Tom Martin will make arrangements with Bartoletti's, in Aurora..

Bob Meyers reported that the local Echolink is down. It is run by Jared Paul, who is often out-of-town on business. Nobody present had further information on the problem.

Adjournment

The meeting was adjourned at 7:36 pm.

For the Good of the Order

Attendees reported on their recent activities.

The 50/50 drawing was won by Bob Meyers, who donated his \$23.00 share to the Repeater Fund. Twenty-three dollars also went to the General Savings in the club treasury.

Submitted by Joe Ferris

Attendees

Tom Martin, W8JWN
Scott Jarmusch, KA8TFF
Burton Armbrust, Sr., WB8EBS
Joe Ferris, KC9TQR
Gary Schafer, K4FMX
Bill Grabowski, KD8VTT
Joe Komblevich, KB8ETK

Skip Caswell, K9EL
Mike Bray, K8DDB
Deb Grabowski, KD8VTS
Dave Thomas, KG9Y
Bob Meyers, WA8FXQ
Joyce Williams, Visitor

News

New Repeater Active

The new Fusion Repeater is now on the air at Pine Mountain. It requires a PL tone of 100.0 hz in order to hear you. Everyone should set there radios to transmit a PL tone of 100.0

— bob Meyers

Palmyra Island Expedition

On January 5, 1980 a DXpedition to Palmyra Island got off to a tragic start. Their plane crashed while landing and WA6YOW was seriously injured. He was evacuated by the Coast Guard and the team voted to stay.

They made 15, 000 QSOs and W8JWN was one of them.

Another DXpedition to Palmyra will begin on January 12 and continue until January 25.

Look for K5P to get a most wanted country in your log





ARRL Bulletin 38 ARLB038
From ARRL Headquarters
Newington CT December 29, 2015
To all radio amateurs

ARRL Again Complains to FCC about Illegal Marketing of Electronic Lighting Ballasts

The ARRL has again complained to the FCC to allege illegal marketing of electronic RF lighting ballasts, operating under Part 18 of the Commission's rules, on the part of two major retailers. Letters went out this week to the FCC Enforcement Bureau and its Office of Engineering and Technology claiming Part 18 marketing regulations violations by Lowe's and by Walmart stores. At issue is the sale of non-consumer RF lighting ballasts to consumers who, in several instances, were told by store personnel that it was okay to install these in a residential setting. In addition, non-consumer and residential-class ballasts are intermixed in store displays with inadequate signage to direct consumers to the correct choice. Both letters asked the FCC to investigate and commence enforcement proceedings with respect to the two stores' marketing and retail sale of RF lighting devices in the US.

"ARRL purports to show that the retailer is...marketing and selling to consumers (by retail sale) non-consumer Part 18 RF lighting devices which are not intended for residential deployment, to consumers who have specifically noted their intention to deploy the devices in residential applications," ARRL Chief Counsel Chris Imlay, W3KD, said in similar complaint letters to the Commission on December 28 and December 29. Part 18 emissions limits for consumer devices are far lower than those allowed for non-consumer devices.

"ARRL has received numerous complaints from Amateur Radio operators of significant noise in the medium

(MF) and high frequency (HF) bands between 1.8 MHz and 30 MHz from 'grow lights' and other Part 15 and part 18 RF lighting devices," Imlay continued. "These devices are easily capable of emitting RF noise sufficient to preclude Amateur Radio MF and HF communications (and, as well, AM broadcast station reception) throughout entire communities."

Supporting both complaints are extensive and detailed reports by ARRL Laboratory EMC Specialist Mike Gruber, W1MG. The reports recount incidents of actual purchases of Part 18 RF lighting devices intended for commercial use to consumers who made clear to store personnel that they intended to use the devices at home. Gruber's report includes multiple photographs that depict in-store displays of the products in question and showing signage that does not adequately explain which devices may be sold to whom.

The ARRL has asked that all non-consumer devices be removed from retail sale and marketing at the stores and to track and recall non-consumer devices already sold to consumers.

In his report, Gruber concluded that retailers should require purchasers of non-consumer Part 18 RF lighting devices to provide a valid contractor's number. He also advised that the stores improve display signage to make it clear that non-consumer Part 18 devices may not be used in residential settings.

Earlier this year, the ARRL sent similar complaint letters to the FCC regarding the marketing of Part 18 RF lighting devices by The Home Depot. The League also has complained about specific RF lighting "grow light" devices that it has alleged exceed Part 18 emission limits.

NNNN



Learn CW online, in your web browser!

Koch Method Morse Course, Speed Training,
Text to CW conversion, Statistics, Forum

A new website to learn and practice Morse telegraphy has been launched:
<http://lcwo.net/> - Learn CW Online

There are already hundreds of training programs, MP3/CD courses and practice aids available, but LCWO follows a radically different concept: While sticking to well-proven methods for learning and practice, all you need for using LCWO is a web browser!

Currently the site, which is available in 30 languages offers a complete Koch method Morse course, code group practice, callsign- and plain text training modes and also allows to convert random text to Morse MP3s.

LCWO.net is a non-commercial project. Creating a free account only takes a few seconds, and you can start practicing CW right away!

The National Park On The Air (NPOTA)

Here are some exciting updates concerning a significant increase in the National Park On The Air (NPOTA) units by the National Parks System.

The primary item of interest to the hams of Michigan is the addition of two sections of the North Country Trail which together wind from the Ohio border near Hillsdale across to the western side of the state up to the Straits of Mackinaw and across the Upper Peninsula to Wisconsin.

From the ARRL NPOTA website:

New Wild and Scenic Rivers, Scenic and Historic Trails Added to NPOTA Sites List 12/28/2015

Santa was good to participants in the ARRL National Parks on the Air (NPOTA) program, which gets under way on January 1. On December 23, the National Park Service (NPS) updated its official list of NPS Administrative Units. As a result, 18 new Scenic and Historic Trails and 29 new Wild and Scenic Rivers and have been added to the list of eligible NPOTA Units, increasing the number of NPOTA units from 434 to 481.

"More NPOTA units ultimately mean more fun, and we hope these additions make more activations possible for

you or your club," said ARRL Media and Public Relations Manager Sean Kutzko, KX9X.

Among the new Historic Trails on the NPOTA list are the five major trails associated with the westward expansion of the US in the 19th century: The Santa Fe, California, Mormon Pioneer, Lewis and Clark, and Pony Express National Historic Trails. The list also includes the North Country and Ice Age National Scenic Trails. These new trails represent thousands of miles of additional area from which NPOTA Activators may operate in 2016.

Not all of the trails and rivers added to the NPS Affiliated Areas list have been included on the NPOTA list, however, because many are administered by other federal agencies, such as the US Forest Service and the Bureau of Land Management. Because NPOTA celebrates the 100th anniversary of the National Park Service, units not administered by the NPS have not been added to the NPOTA list of eligible units.

While the unexpected addition of new NPOTA units is ultimately welcome, it has delayed the release of a TQSL update for Logbook Of the World (LoTW). ARRL staff worked over the holiday weekend to add the new units — and combinations of units — to the update, and this has required additional testing. The TQSL update will

undergo final testing this week and be released as soon as possible.

The 11th hour addition of large trails and rivers also has made it necessary to revise some of the ground rules for certain types of NPOTA units. For example, large portions of some new trails are on existing stretches of highway or other roads, raising safety issues for pedestrian Activators.

“We will be reviewing these and other situations Activators may encounter, and update the rules accordingly,” Kutzko said. “Activators will need to be careful only to operate from the portions of rivers and trails that are administered by NPS. It is not uncommon for several agencies to administer different parts of the same unit. In addition, many portions of rivers and trails are on private property, which should not be accessed unless you have permission from the landowner.”

The National Trails System Map & Guide and the National Wild and Scenic Rivers System website provide information on the boundaries of these units. Due diligence on the part of Activators is critical, however, to ensure that they are operating from an NPS-administered portion of these units.

Further updates and additional information will be posted on the ARRL NPOTA page as soon as they are available.

Michigan NPS Units:

Father Marquette National Memorial , AA07 Isle Royale, NP31 Keweenaw, HP20 North Country NST + Father Marquette, TR04, AA07 North Country NSRT + Pictured Rocks LK, TR04, LK03 Pictured Rocks, LK03 River Raisin, BP04 Sleeping Bear Dunes, LK04

Michigan now has 8 NPOA units, with 4 in the UP and 1 in Lake Superior. The other 3 are in the Lower Peninsula.

Farther Marquette National Memorial, St Ignace, MI
North Country National Scenic Trail, Upper Peninsula
Isle Royale National Park, Lake Superior
Keweenaw National Historical Park, near Houghton, MI
Pictured Rocks, National Lakeshore, near Munising, MI
North Country National Scenic Trail, Lower Peninsula
River Raisin National Battlefield Monument, near Monroe, MI
Sleeping Bear Dunes, National Lakeshore, NW Lower MI

You can locate information on the North Country Trail System here:

[http://www.arrl.org/news/new-wild-and-scenic-rivers-](http://www.arrl.org/news/new-wild-and-scenic-rivers-scenic-and-historic-trails-added-to-npota-sites-list)

[scenic-and-historic-trails-added-to-npota-sites-list](http://www.arrl.org/news/new-wild-and-scenic-rivers-scenic-and-historic-trails-added-to-npota-sites-list)

Here is a list of “Trail Towns” in Michigan:

Trail Town – Middleville, MI

Trail Town – Lowell, MI

Trail Town – White Cloud, MI

Trail Town – Fife Lake, MI

Trail Town – Kalkaska, MI

Trail Town – Petoskey, MI

Trail Town – Mackinaw City, MI

Trail Town – St. Ignace, MI

Trail Town – Grand Marais, MI

Trail Town – Marquette, MI

Operating NPOTA

The Keweenaw Park (N8P), North Country Trail (N8XX) , and Sleeping Bear Dunes (K8RZH) are scheduled for January 1, 2016 along with and activity from the River Raisin Battlefield (KJ8O) scheduled for January 31.

You can see all activity scheduled for the upcoming 10 days by logging into the NPOTA site using your LOTW login. You will find information concerning operation times, frequencies and modes there.

All activity will take place exclusively on Logbook of the World (LOTW). See the ARRL home page for complete details.

Activating NPOTA

Keep in mind that those wishing to activate any of the NPOTA Units in Michigan must follow the rules promulgated by the National Park System.

For a map of the North Country Trail, it is available here:

<https://northcountrytrail.org/trail/maps/>. There are links there which will take you to the websites of chapters which administer various parts of the trail.

One must be aware that the North Country Trail is not one continuous trail. There are gaps and some of the trail may cross private property.

NPOTA activators must reach a National Scenic Trail under foot power, be on NPS land (or land co-administered by other local groups), Leave No Trace, and not interfere with others’ enjoyment of the trail.

The activity begins on January 1 and will continue throughout 2016.

Making contacts with NPOTA units is great fun and being an activation station is going to be even more fun.

Just ask those that were active in 2014 as W1AW/8 about how much fun that was!

73, Larry, WB8R

ARLB032 W1AW 2015/2016 Winter Operating Schedule

ARRL Bulletin 1 ARLB001
 From ARRL Headquarters
 Newington CT January 4, 2016
 To all radio amateurs

Morning Schedule:

Time	Mode	Days
1400 UTC (9 AM EST)	CWs	Wed, Fri
1400 UTC (9 AM EST)	CWf	Tue, Thu

Daily Visitor Operating Hours:

1500 UTC to 1700 UTC - (10 AM to 12 PM EST)
 1800 UTC to 2045 UTC - (1 PM to 3:45 PM EST)
 (Station closed 1700 to 1800 UTC (12 PM to 1 PM EST))

Afternoon/Evening Schedule:

2100 UTC (4 PM EST)	CWf	Mon, Wed, Fri
2100 " "	CWs	Tue, Thu
2200 " (5 PM EST)	CWb	Daily
2300 " (6 PM EST)	DIGITAL	Daily
0000 " (7 PM EST)	CWs	Mon, Wed, Fri
0000 " "	CWf	Tue, Thu
0100 " (8 PM EST)	CWb	Daily
0200 " (9 PM EST)	DIGITAL	Daily
0245 " (9:45 PM EST)	VOICE	Daily
0300 " (10 PM EST)	CWf	Mon, Wed, Fri
0300 " "	CWs	Tue, Thu
0400 " (11 PM EST)	CWb	Daily

Frequencies (MHz)

CW: 1.8025 3.5815 7.0475 14.0475 18.0975 21.0675
 28.0675 147.555
 DIGITAL: - 3.5975 7.095 14.095 18.1025 21.095
 28.095 147.555
 VOICE: 1.855 3.990 7.290 14.290 18.160 21.390
 28.590 147.555

Notes:

CWs = Morse Code practice (slow) = 5, 7.5, 10, 13 and 15 WPM
 CWf = Morse Code practice (fast) = 35, 30, 25, 20, 15, 13 and 10 WPM
 CWb = Morse Code Bulletins = 18 WPM
 CW frequencies include code practices, Qualifying Runs and CW bulletins.

DIGITAL = BAUDOT (45.45 baud), BPSK31 and MFSK16 in a revolving schedule.

Code practice texts are from QST, and the source of each practice is given at the beginning of each practice and at the beginning of alternate speeds.

On Tuesdays and Fridays at 2330 UTC (6:30 PM EST), Keplerian Elements for active amateur satellites are sent on the regular digital frequencies.

A DX bulletin replaces or is added to the regular bulletins between 0100 UTC (8 PM EST) Thursdays and 0100 UTC (8 PM EST) Fridays.

Audio from W1AW's CW code practices, CW/digital bulletins and phone bulletin is available using EchoLink via the W1AW Conference Server named "W1AWBDCT." The monthly W1AW Qualifying Runs are presented here as well. The audio is sent in real-time and runs concurrently with W1AW's regular transmission schedule.

All users who connect to the conference server are muted. Please note that any questions or comments about this server should not be sent via the "Text" window in EchoLink. Please direct any questions or comments to w1aw@arrl.org.

In a communications emergency, monitor W1AW for special bulletins as follows: Voice on the hour, Digital at 15 minutes past the hour, and CW on the half hour.

All licensed amateurs may operate the station from 1500 UTC to 1700 UTC (10 AM to 12 PM EST), and then from 1800 UTC to 2045 UTC (1 PM to 3:45 PM EST) Monday through Friday. Be sure to bring your current FCC amateur radio license or a photocopy.

The W1AW Operating Schedule may also be found on page 100 in the January 2016 issue of QST or on the web at, <http://www.arrl.org/w1aw-operating-schedule>.
 NNNN

ARRL MICHIGAN SECTION NEWS

Greetings to the Hams of Michigan,

We are that special time of year where we seek to spend time with loved ones, share the holidays, break bread together, celebrate and give thanks for the things that we have. In addition, we face a new year which will be filled with challenges and rewards and with opportunities to make the coming year better than the previous one.

Both Diane and I wish everyone the best for this holiday season and the coming year.

New ARRL Michigan Section Website

Our new section website is now active at www.mi-arrl.org and is the result of a lot of planning and effort over quite a period of time. Thanks go to David Adams, N9UXU for doing the heavy lifting and to Gordon Baldwin, W8CT for stepping forward to manage and administer the site for us. Thanks also to Jay Nugent, WB8TKL who had faith that we would be able to get this project completed.

The new website will be interactive with an opportunity for each of the Section Staff to have room to make comments and keep everyone informed on what is happening in various MI ARRL areas. In addition there is a club area which will allow clubs to link to their websites and also there will a spot for newsletters which will give very wide distribution to the excellent newsletters in the Michigan section.

We expect the website to be fresh and dynamic and will work hard to keep it that way. Please keep in mind that the website will always be a work in process. As always, we are interested in constructive comments. We hope that you enjoy using it.

As a result of the new website, the monthly Section News Column will no longer be shown on the ARRL website. In its place will be the link that will take you to our new site where the Section News will reside. For those that choose to receive bulletins, news and other information electronically from the Section and Division (selectable in your profile on the ARRL website), the

Section News will continue to arrive in your inbox as it always has.

Amateur Radio Parity Act of 2015

The current count of sponsors and co-sponsors in the US House stands at 117. The count in the US Senate stands at 4.

We have been collecting signatures on letters to our Michigan senators for a number of weeks now and we need that process to continue. If this has not already been done, your club can (and should) do this:

Download a copy of the letters for Senators Peters and Stabenow here:

<http://www.k8tb.org/Stabenow.pdf>

<http://www.k8tb.org/Peters.pdf>

Print the appropriate number of copies. At your next meeting, ask that all hams that have not yet sent a letter to their Senators to add the date and their signature, printed name, callsign, address, city, state and zip code to a letter for each Senator. Bring a handful of pens so that no one has to stand in line waiting for a pen to use. In 10 minutes you can have 30 or more letters signed for each Senator.

Collect the completed letters, and mail them to ARRL HQ at:

ARRL

225 Main St

Newington, CT 06111

Attn: S1685 Grassroots campaign

Or, if you would like to avoid the postage costs, you can scan the signed letters into PDF format and then email them to: reginfo@arrl.org.

Please include "S1685 Grassroots Letter" in the subject field of your email.

Why are we sending our letters to ARRL HQ? We do this so that the letters can be hand delivered to the offices of our Senators. This guarantees an opportunity for our staff to have a little "face time" with the Senator's aide (or maybe the Senator) and the opportunity to discuss the Amateur Radio Parity Act and some of the misled-



ing information that has been propagated regarding the bill.

Please send me a note at wb8r@arrl.org telling me how many letters your club generated and sent to HQ.

This is a pretty simple process and a very important one. The actions we take now can pay us huge dividends in the future when it comes time to install our antennas. Even if you are a person who just uses an HT for your ham activities or if you are fortunate enough to live in an area where there are few or no antenna restrictions, please think about the other folks that for whatever reason find themselves restricted because of where they live. We all make conscious choices, but sometimes the need to live in a certain area really gives us few choices of what neighborhood we settle in.

Remember that the Amateur Radio Parity Act of 2015 does not guarantee that you can erect that huge tower and major league antenna array no matter where you live. Rather, it simply requires that Homeowner’s Associations and the enforcers of the Covenants, Conditions, and Restrictions (CC&R’s) sit at the table with us and negotiate in good faith. No longer would they be able to simply say “NO” when we request permission to erect and amateur radio antenna. Our PRB-1 law here in Michigan only affects regulation by government entities and the Amateur Radio Parity Act of 2015 is the second half of our efforts for parity.

Thanks to all who have helped us get this far. The challenge remains and we need to continue to keep the pressure on.

I look forward to hearing from all those clubs that have not yet had the letter-signing events at your meetings! If your club has already done this, at subsequent meetings, be sure to offer letters for those that may have not been present when letters have been signed. That way everyone will have a chance to sign and send a letter.

Section Travel Plans

- Jan 13, 2016 Hazel Park ARC Meeting – K8ED
- Jan 24, 2016 Hazel Park Swap, Madison Heights, MI – WB8R

- Feb 13, 2016 Cherryland Swap, Traverse City, MI – WB8R
- Feb 21, 2016 Livonia ARC Swap, Livonia, MI – WB8R
- Feb 22-25, 2016 MI Interop Conf. Traverse City, MI – WB8R
- Mar 19, 2016 Crossroads Hamfest, Kalamazoo, MI – WB8R

Affiliated Clubs: It is extremely important for your hamfest chairman to get your swap registered with the ARRL. This assumes that you want your swap listed on the ARRL website (free publicity) and that you would like to have the benefit of ARRL materials and representation that are available for your event.

It is never too early to register your swap. Another tidbit is that the attendance of ARRL field staff at your event is not possible at events that are not sanctioned as an ARRL swap.

National Parks on the Air (NPOTA)

Throughout 2016, Amateur Radio will be helping the National Park Service celebrate their 100th anniversary. Hams from across the country will activate NPS units, promote the National Park Service and showcase Amateur Radio to the public.

This exciting, year-long on the air event will consist of amateurs and clubs going into the field to activate 434 National Park Units. A complete list of facility types can be found here:

<http://www.arrl.org/npota-list>

The goals of National Parks on the Air are:

- a) Promote the capabilities of Amateur Radio to the general public through operations at eligible NPS Administrative Units.
- b) Promote the NPS Centennial and the heritage of the National Park System through Amateur Radio.
- c) Encourage portable Amateur Radio operation from as many of the 408 officially-listed National Park Service administrative units and the 25 recognized Affiliated Areas as possible.

Michigan has 6 NPOA units, with 3 in the UP and one in Lake Superior. The other 2 are in the Lower Peninsula. Farther Marquette National Memorial, St Ignace, MI

Isle Royale National Park, Lake Superior
Keweenaw National Historical Park, near Houghton,
MI

Pictured Rocks, National Lakeshore, near Munising,
MI

River Raisin National Battlefield Monument, near
Monroe, MI

Sleeping Bear Dunes, National Lakeshore, NW Lower
MI

Operating NPOTA

The Keweenaw Park is already on the schedule for January 1, 2016 and activity from the River Raisin Battlefield is scheduled for January 31.

All activity will take place exclusively on Logbook of the World (LOTW). See the ARRL home page for complete details. Detailed information is available by logging into the NPOTA site using your LOTW login. 2016 is going to be a fun year!

ARRL Affiliated and Special Service Clubs

It is time to complete those annual club reports which will keep your club current at the ARRL. No affiliated club or special service club is ever removed from the lists. If you do not complete the annual reports for either or both, then your club becomes inactive.

You can easily update your club information here: <http://www.arrl.org/club-update>. This should be completed at the beginning of each calendar year. If you need assistance, you can contact our Affiliated Club Coordinator Joe Miller, KJ8O at kj8o@arrl.net.

Hospitality Acknowledgements

L'Anse Creuse Swap, Harrison Twp
Thank you for your warm welcome and hospitality. I enjoyed my visit to your swap.

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

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 November, 2015:
WB9JSR 636, WB8WKQ 245, K8ED 186, WB8TQZ 182,
K8RDN 118, KC8BW 91, WD8USA 49, WD8MWD 40,
N8FVM 35, W8MSK 32, N8OSL 16, WB8R 12, WB8RCR 9,
KB8RCR 7, KD8LSM 4, N8UN 3.

Total SAR reported: 1665

Brass Pounder's League (BPL) for November, 2015:
WB9JSR 636.

Public Service Honor Roll (PSHR) for November, 2015:
WB8R 195, N8OSL 181, WD8USA 140, WB8RCR 139,
K8RDN 130, WD8MWD 130, WB9JSR 130, N8FVM 125,
WB8WKQ 110, WB8TQZ 110, KC8YVF 109, KC8BW 90,
K8ED 90, KB8RCR 39, KD8LSM 34, NE8B 26, KC8NFN 24.



Net traffic for November, 2015:

Michigan Amateur Communications System 162,
 The Michigan Net 125,
 Michigan Traffic Net 125,
 Great Lakes Emergency and Traffic Net 40,
 Upper Peninsula Net 40,
 Southeastern Michigan Traffic Net 23,
 Michigan VHF Traffic Net 19,
 Michigan Digital Traffic Net 18,
 Michigan Amateur Radio Public Service Corps 5, Saginaw
 County ARES Net 4,
 District 3 ARPSC Net 4,
 Northern Lower Eastern Upper Peninsula Net 3,
 District 3 Digital Training net 3,
 Genesee County ARPSC Traffic and Training Net 2,
 Red Cross Net of Greater Grand Rapids , Bay Area Re-
 gional Traffic System , Michigan ARES D-Star net , Gene-
 see County Radio Club , Chelsea ARC Net , Branch Coun-

ty Emergency Net , District 5 Hospital Net, District 8
 Emergency Net.

Total net traffic reported: 573

Thanks to the hams who put forth the effort and who do
 the public service on behalf of their fellow citizens.

73 until next time,

Larry, WB8R

Dales Tales

**Greetings everyone, welcome to "Dale's Tales" for
 January, 2016 -- already?!.**

SPECIAL EVENT: National Parks on the Air has begun.
 This is the big operating event for 2016. Be sure to
 check out the full details at <https://npota.arrl.org/>. See
 the current "On the Air" list of scheduled events on the
 web page. There are actually 20 qualified National Park
 Service Units within the Great Lakes Division, so there
 are many opportunities to put a park on the air.

ANNUAL REPORT: The following report has been sub-
 mitted to the ARRL Board as part of the Board of Direc-
 tors annual meeting. We are making it available to all of
 the Division membership.

2015 Activity Report
 Great Lakes Division

At the January ARRL Board meeting, with the approval
 and support of the Programs and Services Committee,
 WA8EFK presented a proposal for creating a new ap-
 pointment of Assistant Section Traffic Manager, parallel-
 ing that of Assistant Section EC. The motion was passed
 and placed into service. MI SM Larry Camp WB8R pro-
 vided the early impetus for the new position. Dale was
 elected to serve on the ARRL Executive Committee and

appointed by President Craigie to chair the Ethics and
 Elections Committee.

In February, WA8EFK, SM Larry Camp WB8R and the
 Michigan Political Action Team met with Michigan Con-
 gressman Tim Wahlberg, to discuss Amateur Radio Pari-
 ty Act, and obtained the Congressman's agreement to
 become a co-sponsor. Ohio SM Scott Yonally N8SY and
 WA8EFK presented the 2014 Herb S. Brier Award from
 the ARRL to Marion County, OH resident Bill Finnegan.
 Scott also presented to two of Ohio's outstanding Boy
 Scout Leaders with a brand new award from the ARRL,
 the Community Organization (Square Knot) award. The
 recipients were both from the Muskingum Valley Coun-
 cil #467, Billie Dickson WB8TRK and Matthew Murphy
 KC8BEW.

In March, WA8EFK, WB8R and the MI Political Action
 Team had the opportunity to meet with Michigan Gov-
 ernor Snyder as he signed Michigan's long-sought-after
 equivalent of the PRB-1 Act. Ohio DEC Jeff Slattery,
 N8SUZ, was awarded the Red Cross 2015 Senior Hero
 award in Athens, Ohio. Slattery is a member of his local
 Red Cross Emergency Communication team.

During April, Alan Morgan KY1O became the new Section Manager for Kentucky. Over the ensuing months, Alan has attended the Section Manager's Workshop and has continued to build his team. In addition, KY has implemented several added media services to keep KY hams abreast of Section happenings. Dale and Vice Director Tom Delaney W8WTD participated in the September 2015 ARRL Kentucky Leadership Conference, at the Greater Louisville Hamfest, addressed two of the meetings and hosted the ARRL Table.

May's big event is always the Dayton Hamvention® and the Great Lakes Division hosted Dayton's ARRL Forum. This year, we welcomed speakers Pres. Kay Craigie N3KN, 1st VP Rick Roderick K5UR, 2nd VP Jim Fenstermaker K9JF, and CTO Brennan Price N4QX.

There were 63 Hamfests and similar gatherings held within the Great Lakes Division during 2015. WA8EFK was able to support our Section Managers and the Field Organization at eleven of those events and Tom participated at nine during the year. Tom and Dale took advantage of League supplied software at many of these get-togethers to print constituent letters in support of the Amateur Radio Parity Act.

During 2015, W8WTD spoke at five Amateur Radio clubs on behalf of ARRL while WA8EFK served as the guest speaker at four club meetings in the Division. These talks focused on the overall ARRL organizations structure and provided the ideal opportunity to fold in discussion of the Amateur Radio Parity Act.

Sean Kutzko KX9X and Katie Allen WY7YL, members of the ARRL PR Leadership team were guests of the MSU Alumni Association staff at a special Michigan State University-hosted forum on Public Relations. Here the MSU group explained the key factors they use in developing their PR programs and how those ideas can be applied to the ARRL's PR efforts. Dale was able to participate in the closing banquet.

The Great Lakes Division held its biennial Convention in August, hosted by the Voice of Aladdin ARC in Columbus. Tom and Dale conducted the ARRL Forum, and the Awards Meeting in addition to the usual duties of hosting the ARRL Table. Debra Johnson, K1DMJ Manager of the Education Department was our guest ARRL speaker. The attendance broke records for this Hamfest.

The Ohio Section also celebrated the newest inductee of the Allan Severson Award when N8SY presented it to Robert Dixon, W8ERD. Michigan SM Larry Camp WB8R presented the ARRL Amateur Radio Service to Scouting Award to Frank Maynard NF8M and honored Michigan's Ham of the Year, Ed Hude WA8QJE.

In December, Dale WA8EFK accepted the appointment to chair the newly formed Public Service Programs Enhancement Working Group of the Programs and Service Committee. Dale is also serving as a member of the DXCC Card Checking Working Group.

Respectfully submitted,

Dale Williams WA8EFK, Director

Tom Delaney W8WTD, Vice Director

TOM'S COMMENTS: Comments from our Vice Director

Happy New Year, everyone! Not a lot of ham radio news this month. The last activity (other than a club meeting) that I attended was the Grant Amateur Radio Club's hamfest in Georgetown, Ohio, back in early November.

But it will be a busy year coming up, and I'm looking forward to it.

Dale and I will be attending the ARRL Board Meeting in January, where we'll find out more about our legislative efforts in 2016. Be prepared to do some more letter-writing and e-mailing once the various pieces of legislation start making their way forward towards a vote. If we want to get the antenna bills passed, we'll need to be very active in contacting Congress. We'll let you know!

About the time you're reading this, the National Parks on the Air activity will be underway. There is already a long list of stations who will be on the air starting January 1st. Check it out on the ARRL website. And get active. There should be lots of contacts for you to make.

And as we go into 2016, we'll be around to your club meetings and hamfests, asking what we can do to facilitate your activities in ham radio. Let us know your concerns, your interests, and especially your successes in whatever projects and activities you take on. Invite us to your meetings. Depending on our schedules, we'd love to come and meet all of you.



73, Tom W8WTD Vice Director,
Great Lakes Division

UPDATE for AMATEUR RADIO PARITY ACT: Please contact your Senator in Washington and encourage his/her support for the Act. When you do this, please reference the Bill Number S 1685. HR 1301 is the Bill number for the House of Representatives. In addition to a letter to your Senator letter to your Representative is quite appropriate.

Please be sure to route your letters through ARRL Headquarters for personal delivery: ARRL, Attn: Amateur Radio Parity Act grassroots campaign, 225 Main St., Newington, CT 06111. You can find more information at <http://www.arrl.org/amateur-radio-parity-act>.

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.

Jan 17 - SCARF - Nelsonville, OH
Jan 24 - Tusco - Strausburg, OH

Jan 24 - Hazel Park - Madison Hgts, MI
Feb 13 - Cherryland - Traverse City, MI
Feb 21 - Mansfield - Mansfield, OH
Feb 21 - Livonia - Livonia, MI
Mar 5 - Cave City - Cave City, KY
Mar 6 - NOARS - Elyria, OH
Mar 19 - Crossroads - Kalamazoo, MI
Mar 20 - TMRA Hamfest - Perrysburg, OH
Mar 26 - MOVARC - Gallipolis, OH

HAMFEST OFFICIALS: It is never too early to register your hamfest for ARRL Sanctioning. Be sure to invite your ARRL Officials as soon as your date is set. Help avoid date conflicts, do it early!

73, HNY, see you on the bands.

Dale Williams WA8EFK
Director
Great Lakes Division

ARRL PROPAGATION BULLETIN

ARLP001 Propagation de K7RA
QST de W1AW
Propagation Forecast Bulletin 1 ARLP001 From Tad Cook, K7RA Seattle, WA January 4, 2016
To all radio amateurs

Happy New Year! This is the first time the propagation bulletin was produced and distributed on New Year's Day. Thanks to Rick Lindquist, WW1ME for putting in the extra time and effort.

Over the past week, average daily sunspot numbers were up, but average daily solar flux values were down, compared to the previous seven days.

Average daily sunspot numbers rose 8.1 points to 57.7, and average daily solar flux values were down 12.4 points to 109.9. Average planetary A index declined from 21.7 to 8.9 and average mid-latitude A index went from 12.6 to 5.9.

Predicted solar flux is 95 on January 1, 100 on January 2-7, 105 on January 8, 110 on January 9-12, 105 on January 13-14, 110 on January 15, 115 on January 16-20, 110 on January 21-26, and 115 on January 27-29.

Predicted planetary A index is 30 on January 1, 18 on January 2-3, 12 and 8 on January 4-5, 20 on January 6-7, then 12, 10, 20, 18 and 10 on January 8-12, 5 on January 13-20, then 10, 15, 10 and 12 on January 21-24, 10 on January 25-26, then 8, 15, 25, 18 and 12 on January 27-31.

F.K. Janda, OK1HH of the Czech Propagation Interest Group sees active to disturbed geomagnetic conditions on January 1-2, quiet to unsettled January 3-4, mostly quiet January 5, quiet to active January 6, mostly quiet January 7, quiet on January 8, quiet to unsettled January 9, active to disturbed January 10, quiet to active January 11, quiet January 12, quiet to unsettled January 13, mostly quiet January 14, quiet to unsettled January 15, quiet

to active January 16, mostly quiet January 17-18, quiet to unsettled January 19-20, mostly quiet January 21, quiet to active January 22, mostly quiet January 23, quiet January 24-25, mostly quiet January 26 and quiet to active January 27.

OK1HH believes there will be increased solar wind on January 3-7, January 20-25, January 30 through February 4 and February 19-21.

At the beginning of the New Year, let's look at some of the numbers we follow.

Average daily sunspot numbers during 2015 were the lowest since 2010.

Average daily sunspot numbers for each year from 2003-2015 were 109.2, 68.6, 48.9, 26.1, 12.8, 4.7, 5.1, 25.5, 80.1, 82.3, 97.1, 121.2, and 70.1 in 2015.

We track a 3-month moving average of sunspot numbers, and for this year, centered on January through November (November's average runs from October 1, 2015 through December 31, 2015) the numbers were 98.2, 78.1, 68.2, 72.4, 77.7, 76.3, 69.1, 67.5, 64.5, 64.6, and 58.5.

Rich Zwirko, K1HTV of Amissville, Virginia sent a report on his 6-meter activity.

"After finishing a nice Christmas dinner I received a telephone call from Marty, K2PLF in Maryland advising me of a 6 meter opening from New Zealand to the Mid-Atlantic area. At 0207 UTC I heard and worked ZL3RC (RE66) on SSB on 50120 KHz. Two minutes later ZL3AAU (RE66) on 50110, also on SSB, was in the K1HTV log. At 0223 UTC Rod, ZL3NW (RE66) became the 3rd New Zealand station worked, this time on CW on 50100 KHz. Rod's signal was in for almost an hour into my FM18ap Virginia QTH, being last heard at 0319 UTC. Also worked were KP3W (FK68) at 0231 UTC and XE2X (EL06), both on CW. The opening was most likely TEP with a single hop E-skip assist to the northeast. While the band was open to New Zealand, many strong W5 stations were being heard

here. The SFI was 133 with the A Index at 9 and K Index at 2.

"Although not a new one on 6 meters for me, the three ZLs were a nice Christmas surprise and new DXCC band countries for area 6 meter DXers K2PLF, K3SX and W3LPL.

"What will the Magic Band bring next? I wouldn't be surprised to see a VK station's signal make it into the States in the next few weeks."

I noticed on Rich's QRZ.com page he says he runs 100 watts or less on HF, and has all DXCC entities confirmed except North Korea. I just finished reading a fascinating book about "The Hermit Kingdom"

which I highly recommend: "A Kim Jong-Il production: the extraordinary true story of a kidnapped filmmaker, his star actress, and a young dictator's rise to power" by Paul Fischer.

I couldn't put it down.

Jon Jones, N0JK sent a report from KH6 using his phone:

"Usually December is a slow month on 6 meters from Hawaii, but the New Year's Eve geo-mag storm created some enhanced conditions. I heard the JA6YBR/B on 50.017 MHz for about 30 minutes 579 at 2345 UTC December 31 from Oahu. No live stations heard. Suspect direct F2. Happy New Year! - Jon N0JK."

And there is this story:

<http://www.sciencerecorder.com/news/2015/12/31/sun-blasts-trigger-new-years-eve-storm/>

If you would like to make a comment or have a tip for our readers, email the author at k7ra@arrl.net.

For more information concerning radio propagation, see the ARRL Technical Information Service web page 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/>.

My own 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/1VOqf9B> and <http://bit.ly/1DcpaC5>.

Click on "Download this file" to download the archive, and ignore the security warning about file format. Pop-up blockers may suppress the download.

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 December 24 through 30 were 51, 71, 63, 67, 64, 54, and 34, with a mean of 49.6. 10.7 cm flux was 132.7, 126.4, 117.4, 110.3, 112.1, 105.4, and 101.5, with a mean of 122.3.

Estimated planetary A indices were 12, 9, 15, 11, 5, 6, and 4, with a mean of 21.7. Estimated mid-latitude A indices were 8, 6, 11, 7, 3, 4, and 2, with a mean of 12.6.
NNNN

ARRL DX NEWS

DX Bulletin 52 ARLD052
From ARRL Headquarters
Newington CT December 31, 2015
To all radio amateurs

This week's bulletin was made possible with information provided by W3UR, QRZ DX, DXNL, Contest Corral from QST and the ARRL Contest Calendar and WA7BNM web sites. Thanks to all.

SRI LANKA, 4S. Nuria, EA3WL and Josep, EA3BT will be QRV as 4S7NTG and 4S7JTG, respectively, from Beruwala Island, IOTA AS-003, from January 3 to 8. Activity will be on 40 to 10 meters using mostly SSB, with some CW and RTTY. QSL both calls via EA3BT.

KENYA, 5Z. Rick, M0LEP is QRV as 5Z4/M0LEP until January 10. Activity is on 40 to 10 meters using CW and SSB. QSL to home call.

SENEGAL, 6W. Francis, F6BLP will be QRV as 6W7SK from January 5 to 31. Activity will be on 160 to 10 meters, with a focus on the low bands, using CW with some SSB and RTTY. QSL to home call.

LESOTHO, 7P. Heli, DD0VR will be QRV as 7P8VR from January 4 to 7. Activity will be on 40 to 10 meters using CW and SSB. QSL to home call.

MOROCCO, CN. Jean, F5LYF is QRV as CN2JJ from Tiznit until March 2016. Activity is on 40, 20, 15 and 10 meters using CW and SSB. QSL to home call.

FEDERAL REPUBLIC OF GERMANY, DA. Members of the Radio Telegraphy High Speed Club are QRV as DP65HSC during 2016 to celebrate its 65th anniversary. QSL via bureau.

IRELAND, EI. Special event station EI1916E is QRV during all of 2016 to commemorate the 1916 Easter Rising

of Dublin. Activity is on the HF bands using SSB, RTTY and PSK. This includes entries in some of the upcoming RTTY contests. QSL direct to EI3GC.

KYRGYZSTAN, EX. Andrea, HB9DUR is QRV as EX/HB9DUR from Bishkek until January 8. Activity is holiday style on the HF bands. QSL to home call.

REPUBLIC OF KOREA, HL. Special event station HL16RI is QRV until June 27, 2016 during the 107th Convention of Rotary International in Seoul that is held from May 28 to June 1. QSL via bureau.

OGASAWARA, JD1. Harry, JG7PSJ is QRV as JD1BMH from Chichi-jima Island, IOTA AS-031, until January 9. Activity is on the HF bands using CW, SSB and RTTY. QSL direct to home call.

BULGARIA, LZ. Members of Bulgarian Radio Club Blagovestnik are QRV as LZ1012SGM during 2016 to honor the memory of Bulgarian Saints. QSL via bureau.

UKRAINE, UR. Special event stations EM10UFF and EM10UCF are QRV until June 30, 2016 to mark the 10 year anniversaries of the Ukrainian Flora and Fauna and Ukrainian Castles. QSL both calls via UR7UT.

BELIZE, V3. Bob, K7YB will be QRV as V31YB from Placencia and San Ignacio from January 3 to 12. Activity will be holiday style on 40, 20, 17 and 10 meters using CW and SSB. QSL direct to home call.

MICRONESIA, V6. Kou, JR2GAG is QRV as V63GG from Kosrae Island, IOTA OC-059, until January 8. Activity is on 160 to 10 meters. QSL to home call.

AUSTRALIA, VK. Special event station VI2AJ2016 will be QRV from January 3 to 13 during the 24th Australian Jamboree from Cataract Scout Park in New South Wales. Activity will be on the HF bands. QSL via VK2KDP.

LAOS, XW. Bruce, 3W3B is QRV as XW4XR until mid January 2016. Activity is on the HF bands. QSL via E21EIC.

VANUATU, YJ. Daniel, VK4AFU plans to be QRV as YJ0AFU from Port Vila, IOTA OC-035, from January 2 to 10. Activity will be on the HF bands and 6 meters using CW, SSB and various digital modes. QSL via NA5U.

ZIMBABWE, Z2. Herbert, 7Z1HB is QRV as Z21LS until January 8. Activity is on the upper HF bands. QSL direct to home call.

CAYMAN ISLANDS, ZF. Lewis, WW4LL is QRV as ZF2LL from Grand Cayman Island, IOTA NA-016. Activity is on the HF bands using SSB. He also plans to be QRV in the ARRL RTTY Roundup. QSL via operator's instructions.

THIS WEEKEND ON THE RADIO. The ARRL RTTY Roundup, Kid's Day SSB Contest, The Lighthouse Christmas Lights QSO Party, AGB New Year 80-Meter Snowball Contest, NCCC RTTY Sprint, NCCC Sprint, SARTG New Year RTTY Contest, AGCW Happy New Year CW Contest, AGCW VHF/UHF Contest, PODXS 070 Club PSKFest, World Wide PMC Contest, Original QRP CW Contest and the EUCW 160-Meter CW Contest will certainly keep contesters busy this New Year's weekend.

The ARRL National Parks on the Air event runs during all of 2016 to mark the 100th anniversary of the National Park Service.

The ARS Spartan CW Sprint is scheduled for January 5. The UKEICC 80-Meter SSB Contest, Phone Fray, CWops Mini-CWT CW Test and QRP CW Fox Hunt are scheduled for January 6.

Please see January 2016 QST, page 86, and the ARRL and WA7BNM contest web sites for details.
NNNN



CLASSIFIED

Space Available to push your stuff



UP AREA HAM FEST INFORMATION

**THIS
Space
Reserved
For
You**

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....

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Scott Jarmusch, KA8TFF

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Radio License Exam Contact Persons:

Mike Boileau: 906 563 1350
 Terry Moriarity: 715 251 1670

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.

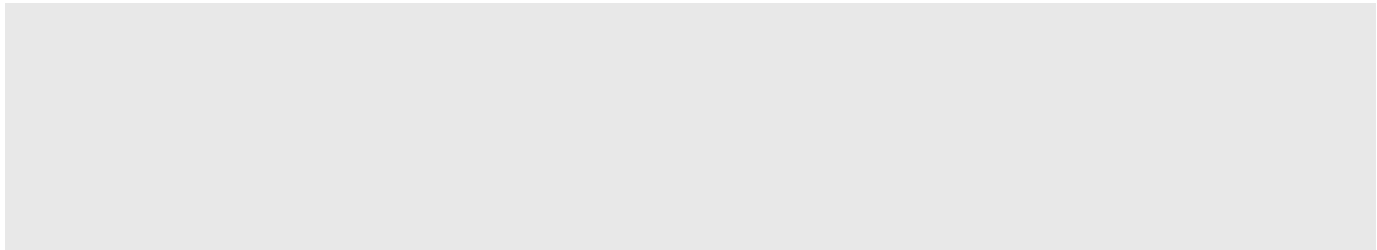
I will be thankful if and when I do make a contact.

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
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
KB8SBP	BERTOLDI	BILL	KINGSFORD		
W8BEY	BEY	DANA L.	KINGSFORD	906-774-7937	lst797@charter.net
KE9L	CASWELL	SKIP	IRON MOUNTAIN	906-774-3371	acaswell4238@charter.net
KC8QZG	DAKE	DAVE	NEWBERRY		
KC9ZBC	DOLATOWSKI	SCOTT	GOODMAN	715-633-1006	kc9zbc@live.com
KC9TQR	FERRIS	JOE	FLORENCE	517-589-4386	jrferris@borderlandnet.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		
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		
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
WA8FXQ	MEYERS	BOB	VULCAN	906-396-0119	meyersb@uplogon.com
KC8LRP	MEYERS	MARGE	VULCAN	906-396-8913	mgmeyer@uplogon.com
N8TUM	MILLER	TIMOTHY	FLORENCE	715-696-6517	timmiller.up@gmail.com
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	715-696-6175	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
KG9Y	THOMAS	DAVE	NIAGARA	715-251-1393	kg9y@arrl.net





Hewlett-Packard

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.