



# MICH-A-CON

Iron Mountain,  
Dickinson County, Mich

January 2018

## **Meeting Reminder:** [Second Wednesday of the Month](#)

Which is **January 10, 2018** at **07:00 PM** at the Dickinson Library, Iron Mountain.

## **From The President**

Words from the President January 2018

Happy New Year to all members of the Mich-A-Con ARC. Let's hope that 2018 will be the year that makes a difference in your life and, at least, doesn't make it any worse. If Murphy just happens to still be around, show him the door!

### **2017 in Review**

The new year starts off with the ARRL RTTY Roundup. I operated for most of the contest, even though the Lions were in the playoffs. I watched them lose to the Seahawks but, as I found out last month, I also placed first in Michigan despite the time off for the game.

Our Christmas party at Bartoletti's in February was well attended. This has become a club favorite winter activity. Of course, who doesn't like food and drink?

The club finally received its Employer Identification Number(EIN) in March. We are now officially the Mich-A-Con ARC, LLC. Let those tax deductions roll in!

April came in like a lion and antennas were reduced to non-transmitting fiberglass covered copper strips. In other words, the SteppIR didn't work.

The last weekend of June found the club on top of Pine Mountain for Field Day. Participation and public interest was lower this year. We operated as 3A and did quite well thanks to some late night efforts by N8ATS. 2018 will find us at Gary's (K4FMX) farm. There will be plenty of room for wire antennas!

On September 30<sup>th</sup>, we combined forces with the Iron Range club to have a Swap Fest. Leroy Anderson's (N8WQG) equipment was sold and the proceeds divided between the two clubs. Many hams from the area and Wisconsin sold gear. Some commented that we had the best Swap Fest held in the U.P. This year.

### **Inside this issue:**

<a href="#">From The President</a>	1
<a href="#">Secretary Report</a>	2
<a href="#">News.....</a>	4
<a href="#">FCC Seeks Comments</a>	4
<a href="#">WIAW 6M</a>	5
<a href="#">WiAW Schedule</a>	6
<a href="#">ARRL Michigan Section News</a>	7
<a href="#">ARRL Dales Tales</a>	9
<a href="#">Propagation Bulletin</a>	11
<a href="#">ARRL DX Report</a>	13
<a href="#">Classified</a>	15
<a href="#">Links and Stuff</a>	16
<a href="#">About Our Club</a>	17
<a href="#">DX Code Conduct</a>	18
<a href="#">Membership List</a>	19
<a href="#">Membership Form</a>	20

The club didn't have a Veterans Day event in November. Health reasons were to blame. Also, deer season preparation is at the same time.

The year ended with the same officers being elected for 2018.

The year ended with two weeks of very cold weather. It was too cold to climb a tower and work on antennas.

The year ended with a 4 element SteppIR and a 40 meter rotatable dipole and a rotor not being in service!!!

See you all at the next meeting on January 10<sup>th</sup> at 7:00 in the library.

73,  
Tom W8JWN

## **MICH-A-CON AMATEUR RADIO CLUB MINUTES OF December 13th, 2017**

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

### **Secretary Report**

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

### **Treasurer Report**

Balances as of December 13th, 2017  
Checking: \$91.01  
Savings: \$2983.00 (Repeater: \$999.82)  
Cash: \$23.00

### **Repeater Report**

Bob Meyers reported that the 440 repeater is back after being repaired, under warranty. It will be put back in place as a receiver, able to be linked. Gary Schafer has antenna for the unit that can be installed when the weather is better.

### **Old Business**

Tom Martin reported that the address for the club callsign will remain as it is for a while longer. The password for managing the address was set by Mike Wolfe (sk) and is not known at this time.

Tom Martin and Debbie Grabowski are still planning to check on insurance options after the first of

the year.

There was nothing new to report regarding replacement of the club Kenwood 440.

The annual club dinner was confirmed. It will be on March 28 at Bartoletti's, in Aurora. Cock tails will be at 6:00 and dinner at 6:30. The menu will be confirmed at a later meeting.

In a clarification, it was noted that in November, club officers agreed to serve again in 2018. The next election of officers will be at the November 2018 meeting.

### New Business

Bob Meyers introduced those present to the book Ham Radio is Alive and Well by Gary Drasch (K9DJT), of Port Washington, Wisconsin.

Gary Schafer made note of a chart for making wire antennas, on the West Mountain Radio website. It makes it possible to cut once, rather than several times.

Gary also noted that if you live closer than two miles from an airport your antenna height may be limited. The FAA has a program that can assist you in determining height limitations.

### Adjournment

Meeting adjourned at 7:35 pm.(Tom Heyboer/Skip Caswell)

The 50/50 drawing was won by Janet Schafer. The treasury was enriched by \$28.00.

### For the Good of the Order

Attendees reported on their recent activities.

## Attendees

Tom Martin	W8JWN	Tom Heyboer	KC8TH
Scott Jarmusch	KA8TFF	Bruce LaLiberte	KD9HQD
Joe Ferris	KC9TQR	Skip Caswell	KE9L
Debbie Grabowski	KD8VTS	Duane Lundamo	KE8GHE
Bill Grabowski	KD8VTT	Janet Schafer	Visitor
Burton Armbrust	WB8EBS	Joyce Williams	Visitor
Gary Schafer	K4FMX		
Bob Meyers	WA8FXQ		
Tim Miller	N8TUM		

## News

## FCC Seeks Comments on Technological Advisory Council Recommenda-

QST de W1AW  
ARRL Bulletin 25 ARLB025  
From ARRL Headquarters  
Newington CT December 5, 2017  
To all radio amateurs

SB QST ARL ARLB025  
ARLB025

In a Public Notice released on December 1, the FCC's Office of Engineering and Technology (OET) has invited comments by January 31, 2018, on a wide-ranging series of Technological Advisory Council (TAC) recommendations that, if implemented, could alter the spectrum policy regulatory landscape - especially with respect to interference resolution and enforcement. An advisory body, the TAC's membership includes several Amateur Radio licensees. ARRL will file comments in the proceeding, ET Docket 17-340.

The Public Notice is in PDF format on the web at, [http://transition.fcc.gov/Daily\\_Releases/Daily\\_Business/2017/db1201/DA-17-1165A1.pdf](http://transition.fcc.gov/Daily_Releases/Daily_Business/2017/db1201/DA-17-1165A1.pdf)

The TAC has called on the FCC to:

\* Consider adopting the spectrum management principles spelled out in the Council's Basic Spectrum Principles white papers of March 2014 and December 2015, and "set clear expectations about the affected system's capabilities regarding interference, such as harm claim thresholds."

\* More broadly adopt risk-informed interference assessment and statistical service rules. "In judging whether to allow new radio service rules, the TAC observes that the Commission has to balance the interests of incumbents, new entrants, and the public," the Public Notice explained. "The process of analyzing the tradeoffs between the benefits of a new service and the risks to incumbents has, to date, been essentially qualitative."

\* Implement "a next-generation architecture" to resolve interference, and establish a public database of past radio-related enforcement activities. The TAC also recommended that the FCC "incorporate interference hunters in the [interference] resolution process."

The TAC spelled out a set of three "Interference Realities," which, in part, assert that harmful interference "is affected by the characteristics of both a transmitting service and a nearby receiving service in frequency, space, or time," and that radio services should expect occasional service degradation or interruption."

The TAC also posed three "Responsibilities of [Radio] Services that, in part, state that "receivers are responsible for mitigating interference outside their assigned channels" and that "transmitters are responsible for minimizing the amount of their transmitted energy that appears outside their assigned frequencies and licensed areas." The TAC acknowledged that the FCC, by and large, does not regulate receiving systems.

Another three principles under "Regulatory Requirements and Actions" the TAC suggested that the FCC may "apply interference limits to quantify rights of protection from harmful interference." According to the Public Notice, the TAC "has recommended interference limits as a method for the Commission to communicate the limits of protection to which systems are entitled, without mandating receiver performance specifications." The TAC called for a "quantitative analysis of interactions between services" before the FCC could "make decisions regarding levels of protection," The OET said.

"[T]he TAC believes the principles can be applied to all systems and result in an optimal solution for each service," the Public Notice said. The TAC has suggested that the FCC not base its rules on exceptional events and worst-case scenarios but on reality.

"The TAC recommends that the Commission start soon, and start small, and not attempt a major overhaul of its



regulatory approach," the Public Notice said.  
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## **W1AW active on 6 meters**

### **ARLB002 W1AW active on 6 meters for all its scheduled transmissions; signal reports welcome**

ZCZC AG02  
QST de W1AW  
ARRL Bulletin 2 ARLB002  
From ARRL Headquarters  
Newington CT January 2, 2018  
To all radio amateurs

W1AW is now QRV on 50350 kHz for all its regular CW code practice, and CW, digital, and phone bulletin transmissions.

In addition to providing regularly scheduled transmissions on 6 meters, another goal is to act as a beacon on 6 meters, especially from the Northeast US.

Signal reports are welcome via an online page at, [http://www.arrl.org/wlaw\\_6m\\_srp](http://www.arrl.org/wlaw_6m_srp) . Reports may also be emailed to WIAW at, [wlaw@arrl.org](mailto:wlaw@arrl.org).

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## ARLB032 W1AW 2018 Winter Operating Schedule

ZCZC AG01  
 QST de W1AW  
 ARRL Bulletin 1 ARLB001  
 From ARRL Headquarters  
 Newington CT January 2, 2018  
 To all radio amateurs

### ARLB001 W1AW 2018 Winter Operating Schedule

#### Morning Schedule:

Time	Mode	Days
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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)

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CW: 1.8025 3.5815 7.0475 14.0475 18.0975 21.0675  
 28.0675 50.350 147.555

DIGITAL: - 3.5975 7.095 14.095 18.1025 21.095 28.095  
 50.350 147.555

VOICE: 1.855 3.990 7.290 14.290 18.160 21.390 28.590  
 50.350 147.555

**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 Bul-  
 letins = 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 bulle-  
 tins between 0100 UTC (8 PM EST) Thursdays and 0100  
 UTC (8 PM EST) Fridays.

Audio from W1AW's CW code practices, CW/digital bul-  
 letins 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 concu-  
 rrently with W1AW's regular transmission schedule.

All users who connect to the conference server are mut-  
 ed. 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](mailto: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 90 in the January 2018 issue of QST or on the web  
 at, <http://www.arrl.org/w1aw-operating-schedule>.

Please note W1AW is now active on 50.350 MHz for all  
 its CW practice, and CW, digital, and phone bulletins.

# ARRL MICHIGAN SECTION NEWS

## Greetings to the Hams of Michigan,

This is the 72nd time that I have taken the proverbial pen in hand to write the monthly Section News Column. This column will be my last as I will be passing the torch to my successor, Jim Kvochick, K8JK who is taking the reigns as MI Section Manager on January 1, 2018.

Jim is a very knowledgeable, experienced ham who will do an excellent job of representing and guiding the Michigan section. I am confident that I am leaving the section in good hands and that we as a section will continue to move forward. Please give Jim your full support.

## Made in Michigan Website

A website has been established that is intended to highlight amateur radio products that are manufactured here in Michigan. This listing will highlight made in Michigan products in an effort to make folks aware of them.

Thanks to Tom Bosscher, K8TB for taking this step. You can find his information here:

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

## Hospitality Acknowledgements

Thanks to these organizations and clubs for their outstanding hospitality shown to the MI ARRL staff:

Dec 3, 2017 L'Anse Creuse Swap, Madison Hgts

## Michigan ARRL Section Staff Travel Plans (2018):

Jan 28, Hazel Park Swap & Shop, Madison Hgts, MI – K8JK

Feb 3, HARA Shop & Swap – Negaunee, MI – K8JK

Feb 10, Traverse City Hamfest – K8JK

Feb 18, Livonia ARC Swap & Shop – (WA8EFK)

Mar 17, Crossroads Hamfest, Kalamazoo, MI – K8JK

## Apr 28 Chassell Hamfest, Chassell, MI – K8JK

Apr 29 GMARC 1st Annual Hamfest, Madison Hgts, MI – K8JK

May 5 Cadillac Hamfest, Cadillac, MI – K8JK

## Michigan Public Service Activities

Michigan Section Traffic/ARPSC Nets (all times local)

Please note that time adjustments may be necessary due to propagation changes. Contact your net manager for alternate frequencies and/or times.

MACS - MI Amateur Communications System 3.952 1000 Daily

UPN – Upper Peninsula Net 3.921 1700 Daily; Noon Sun  
MIARPSC – MI Amateur Radio Public Service Corps 3.932 1700 Sun

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) 2000 Tu, Th, Sat

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

D8EN - District 8 Emergency Net 3.909 Wed 2000

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

SEMNTN – SE MI Traffic Net 146.76- 2215 Daily

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

## Michigan Amateur Radio Public Service Corps (ARPSC) Activities for November 2017

Station Activity Reports (SAR) for November 2017:



WB8WKQ 224, WB8TQZ 166, N5MKY 114, K8ED 101, K8RDN 90, K8BKM 59, KE8CEH 54, WD8USA 53, WD8MWD 28, WB8RCR 9, KC8NFN 6.

Total SAR reported: 904

Public Service Honor Roll (PSHR) for November 2017:

WB8RCR 284, WD8USA 155, K8RDN 133, KC8YVF 116, WD8MWD 113, KE8CEH 113, WB8TQZ 110, N5MKY 105, WB8WKQ 90, K8ED 90, KC8NFN 46.

Brass Pounder's League (BPL): None

Net traffic for November 2017:

Michigan Amateur Communications System 114, South-eastern Michigan Traffic Net 63, Michigan Traffic Net 59, Upper Peninsula Net 37, Great Lakes Emergency and Traffic Net 26, Michigan Digital Traffic Net 9, Saginaw County ARES Net 5, Michigan VHF Traffic Net 5, Northern Lower Eastern Upper Peninsula Net 4, District 3 ARPSC Net 3, Michigan Amateur Radio Public Service Corps 2, Red Cross Net of Greater Grand Rapids 1, District 5 Hospital Net 1, Bay Area Regional Traffic System , Branch County Emergency Net , Chelsea ARC Net , Genesee County ARPSC Traffic and Training Net , District 8 Emergency Net , Luce County ARES Net , Michigan ARES D-Star net.

Total net traffic reported: 329

November Volunteer Hours Dollar Value:

ARPSC: \$ 190,510

NTS: \$ 36,921

Total Volunteer Dollar Value for November 2017: \$ 227,431

More information is available at <http://nts-mi.org/>. Come join us on our traffic and public service nets.

A hearty thanks to the hundreds of volunteers across the State of Michigan who work hard as volunteers to hone their skills month after month to make sure they are ready for any situation that may arise. Our ARPSC and NTS programs are an integral part of AuxComm, which in

turn is an integral part of the Michigan State Police Homeland Security Division.

### Final Final.....

I would like to say a heartfelt thank you to the members of the Michigan ARRL Section Staff for your efforts and assistance over the past 6 years.

Assistant Section Managers: Dan, KB6NU and Jay, WB8TKL; Section Emergency Coordinator John WB8RCR; Section Traffic Manager Mark Shaw, K8ED; Affiliated Club Coordinator Joe, KJ8O; Public Information Coordinator Pat KC8RTW; Official Observer Coordinator Ken N8KC; Section Technical Coordinator Wallace KE8HR; Section Youth Coordinator Gordon, W8CT; and State Government Liaison Ed WA8QJE.

In addition, I would like to say thank you to all the hams of Michigan who made my job always interesting, sometimes amusing, and very worthwhile.

As the holidays approach, Diane and I wish everyone the blessings of the holiday season and the upcoming new year. May your holidays be pleasant and filled with good times with family and friends and our best wishes for a successful and prosperous new year.



## *Dales Tales*

Greetings everyone, welcome to "Dale's Tales" for January 2018.

Here is the Great Lakes Division RECAP OF 2017:

From the OHIO SECTION:

January started getting all of our 1,700 Ohio ARES members to complete the four ICS courses (IS 100, 200, 700 and 800). As an incentive, we include Statewide credentialing through the Ohio Department of Homeland Security and free statewide liability insurance coverage through Ohio Responds. Our end of year numbers show 620 ARES members completed, with a total training of 5,732 courses taken thus far.

March, ARES Operators were called to staff several Emergency Operations Centers during a communications failure in northeastern Ohio when the 911 / MARCS system went down. ARES filled the gap with DMR and analog communications to the needed emergency centers.

August, we had an EF-1 tornado in Trumbull County, and major flooding in Findlay that resulted in a lot of property damage to homes and businesses in both areas. Our ARES groups were activated to help with communications and relief efforts. Hurricane Harvey hit Texas and a few of Ohio's ARES folks were tapped to go and help with the communications and relief efforts.

In September, we had several of Ohio ARES folks sent to assist with communications and relieve efforts in Florida and Puerto Rico.

November, Ohio had an outbreak of 17 tornadoes with 12 of our counties being affected. They ranged from EF-0 to EF-2 in size. Many houses and outbuildings were destroyed. Our ARES groups were activated in numerous counties around the state to help with communications and relief efforts.

December 12th, our Southwestern Ohio ARES group in Cincinnati was called upon to help with communications during a million-dollar update to the City of Cincinnati's 911 system. Our ARES teams were ready and on station

when the cutover to the new system came on board. It was a smooth transition, and luckily everything went as planned with no hiccups.

From the KENTUCKY SECTION:

Executed a smooth transition between outgoing SM Alan Morgan, KY1O and the incoming Section Manager Steve Morgan W4NHO.

The Kentucky Section had representation by the KY SM at 7 of 12 Hamfests in KY, with plans in place to attend more in 2018.

The Kentucky Section initiated a monthly news column which includes the recognition of the ARRL Affiliated Club of the Month. KY will continue to build our Winlink network in Region 1 & Region 2.

The expanding DMR Network now covers KY from Owensboro to Paintsville and Northern KY to Bowling Green. We now have 30 to 40 checks-in on our weekly net.

Had excellent representation for the Western KY Eclipse with Frankfort and statewide communications in August.

The KY Section will continue to rebuild our relationship with Frankfort Emergency Management Authority and with the incoming new management of Barry Sanford. Cecil Dennis is serving as liaison for Auxcom.

Working with SEC to refill existing vacancies of selected EC, DEC and ASEC across the Section, while working toward developing a KY State Convention or KY ARES Conference.

From the MICHIGAN SECTION:

In Michigan, we have followed through with our pledge as part of PA 556 (PRB-1 language codified into state law early in 2015) to form an Antenna Advisory group made up of representatives from the Michigan Municipal League, the Michigan Township Association, a representative from the Michigan Department of Technology, Management and Budget

(DTMB) and ARRL representatives. The first meeting of this group was held in May 2017 at the Michigan State Police Headquarters in Dimondale, MI with said representatives in attendance.

The Michigan Section presented the first annual Great Lakes HamCon at Michigan International Speedway in early October. This event was made possible by 21 Michigan Amateur Radio Clubs banding together to make it happen. Attendance was 11-1200 and the 2018 event is on the drawing board, scheduled for October 6 & 7, 2018.

Michigan, with assistance from DHS/OEC held its first AUXCOMM training session and updated a database of actual deliverable capabilities as requested by FEMA. MI Critical Incident Management System training session was held that focused solely on the needs of amateur radio operators

The MI State Emergency Operations Center was activated for four statewide exercises and over two dozen ARES members assisted public safety officials monitoring infrastructure around the Mackinaw Bridge during the annual bridge walk. During flooding in central Michigan, ARES members assisted local emergency management with damage assessment, inundation prediction and reporting.

MI ARES is working on preparing input to the Statewide Communications Interoperability Plan (SCIP), a forward-looking document that will drive investment over the next 3-5 years. ARES has been working with the state planner on better incorporating amateur radio into the state's emergency communications plan.

Michigan's SEC John McDonough WB8RCR has been appointed interim chair of the FEMA Region V Auxcomm committee.

AS YOUR GREAT LAKES DIVISION DIRECTOR I am honored to continue to serve the hams of the Great Lakes Division, I must take this moment to thank Larry Camp WB8R who has chosen to retire from the Michigan Section Manager Position after service for 6 years. His accomplishments are recognized by all as he has served his Section well. Jim Kvochik K8KJ assumes the position as

MI SM today, Jan. 1, and will serve on an interim basis until a special election is held later in the year.

My thanks go to all of our Section Managers for the outstanding jobs they have been doing. Sometimes the job can be tough, sometimes difficult decisions must be made, but by and large the hams in the Great Lakes Division have the best interests of Amateur Radio at heart and are very supportive of all of the groups that comprise the ARRL Field Organization. This whole organization works because of our volunteers. We are all doing this for the love of ham radio, and as we move into 2018, we can expect more opportunities and exciting new ventures to come before us. Thank you all.

TOM'S COMMENTS: Comments from our Vice Director Tom Delaney W8WTD

The end of the year can provide an opportunity to look back, as well as forward. Lots of people will be making "New Year's resolutions" to do something or not do something in the coming year. I've never found that very helpful. Instead, I like to focus on the continuity of efforts to reach a goal. So, today, I want to look at 2017 and remember some of the events while also looking ahead.

Hamvention was held in Xenia this past year. Congratulations to the planners who had little to go on and who had to re-invent everything. Yes, there were a few hitches, but overall, Hamvention was as successful as most of the past 50-some iterations. And from the reports of the new building and other changes, it sounds like Hamvention will once again be the place to be in mid-May.

And a promising start was made for the first-ever GL Hamcon in Michigan. There's room for improvement, but the number of pleased "customers" and the large facility should help it become a great venue in the years to come.

Then there are the efforts throughout the US, and within the Division, to educate, train, and motivate new hams. I'm pleased that I've been able to make some contributions through the committees I serve on, but the more important work is being done by every ham who con-



ducts a class, serves as a VE for exams, and in particular, serves as a mentor for new people coming into the hobby. In various forums conducted at hamfests, I've been very happy to see how many of you agree with the ARRL

efforts to grow ham radio, both by improving the educational materials, and focusing on potential changes in the licensing system that we might request.

## *ARRL PROPAGATION BULLETIN*

SB PROP @ ARL \$ARLP001  
ARLP001 Propagation de K7RA

ZCZC AP01  
QST de W1AW  
Propagation Forecast Bulletin 1 ARLP001 From Tad Cook, K7RA Seattle, WA January 5, 2018 To all radio amateurs

No sunspots appeared from December 27, 2017 until January 4, 2018.

As Solar Cycle 24 declines to a minimum over the next two years we should see longer and more numerous periods of no sunspots. On January 4 the daily sunspot number was 13, indicating 3 sunspots in one sunspot group, although Spaceweather.com reported no sunspots on that day. The sunspot number for that day was reported by NOAA at <ftp://ftp.swpc.noaa.gov/pub/indices/DSD.txt>.

On January 4 Spaceweather.com reported a stream of solar wind should reach Earth on January 8, triggering some geomagnetic unrest, but nothing severe.

Over the recent reporting week (Thursday through Wednesday) the average daily sunspot number declined from 17.4 to 0, while average daily solar flux went from 74.6 to 70.4.

Average daily planetary A index declined from 7.1 to 5.1, while average daily mid-latitude A index went from 5.7 to 3.4.

Predicted solar flux is 70 on January 5-6, 69 on January 7-8, 68 on January 9-11, 70 on January 12, 72 on January

13-24, 70 on January 25, 68 on January 26-31, 70 on February 1-8, and 72 on February 9-18.

Predicted planetary A index is 5 on January 5-6, then 8, 12 and 7 on January 7-9, 5 on January 10-12, then 22, 16 and 6 on January 13-15, 5 on January 16-19, then 12, 10, 8 and 6 on January 20-23, 5 on January 24-26, then 6, 25, 15 and 8 on January 27-30, 5 on January 31 through February 2, then 10, 12 and 6 on February 3-5, 5 on February 6-8, then 22, 16 and 6 on February 9-11, 5 on February 12-15, then 12, 10 and 8 on February 16-18.

Geomagnetic activity forecast for the period January 5-January 31, 2018 from F.K. Janda, OK1HH:

"Geomagnetic field will be:

Quiet on January 5, 11, 17-19, 31

Mostly quiet on January 6, 10, 30

Quiet to unsettled on January 12, 15-16, 23-26 Quiet to active on January 7, 20, 22, 27-29 Active to disturbed on January 8-9, 13-14, 21

"Amplifications of the solar wind from coronal holes are expected on January (6-8,) 10-12, (13,) 19-20, (21-22, 28-31).

"Remark: - Parenthesis means lower probability of activity enhancement."

If you would like to make a comment or have a tip for our readers, email the author at, [k7ra@arrl.net](mailto: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 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/>.

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 28, 2017 to January 3, 2018 were 0, 0, 0, 0, 0, 0, and 0, with a mean of 0. 10.7 cm flux was 71.1, 71.5, 70.4, 70.7, 69.1, 69.5, and 70.7, with a mean of 70.4. Estimated planetary A indices were 5, 4, 3, 4, 11, 5, and 4, with a mean of 5.1. Estimated mid-latitude A indices were 2, 3, 2, 2, 8, 4, and 3, with a mean of 3.4.  
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## ARRL DX NEWS

SB DX @ ARL \$ARLD001  
ARLD001 DX news

ZCZC AE01  
QST de W1AW  
DX Bulletin 1 ARLD001  
From ARRL Headquarters  
Newington CT January 4, 2018  
To all radio amateurs

This week's bulletin was made possible with information provided by AA4NC, K1ZZ, WB2TJO, the OPDX Bulletin, 425 DX News, DXNL, Contest Corral from QST and the ARRL Contest Calendar and WA7BNM web sites. Thanks to all.

**FIJI, 3D2.** Jim, WB2TJO is QRV as 3D2JS from Taveuni Island, IOTA OC-016, until March 13. Activity is on 80 to 6 meters using CW, SSB and some digital modes. QSL to home call.

**VIET NAM, 3W.** Trung, W6TN is QRV as 3W9T until January 11. Activity is on 40 and 20 meters using CW. QSL via LoTW.

**SAMOA, 5W.** Atsu, 5W1SA is QRV with special call 5W20SAMOA during all of 2018. QSL via LoTW.

**SOMALIA, 6O.** Operators Ken, LA7GIA and Adrian, KO8S-CA are QRV as 6O6O until January 16. Activity is on 160 to 10 meters using CW, SSB, RTTY and FT8. QSL via M0OXO.

**BHUTAN, A5.** Pat, N2IEN is QRV as A52PD until January 14. Activity is on 80 to 10 meters using mostly CW and various digital modes. QSL via NR6M.

**MOZAMBIQUE, C9.** Daniel, CT2GXZ is QRV as C81DL from Maputo. His activity of late has been on 40 and 20 meters using SSB. QSL via operator's instructions.

**FEDERAL REPUBLIC OF GERMANY, DA.** Special event station DQ800HRO is QRV until July 31, and then from September 1 to December 31, during the celebration of the founding 800 years ago of the Hanseatic city Rostock. QSL via DL5KVV.

**GUADELOUPE, FG.** Burt, FG8OJ is now QRV on 160, 80 and 40 meters. QSL via F4AVX.

**REPUBLIC OF KOREA, HL.** During the Winter Olympic Games, until February 28 all South Korean licensed stations and operators may change the number in their call signs to 23.

**PANAMA, HP.** Will, AA4NC will be QRV as HP1/AA4NC from January 10 to 24. Activity will be holiday style on 160 to 6 meters using CW, SSB, RTTY and possibly other digital modes. QSL direct to home call. In addition, look for operators HP1MAC, HP1RIS, HP1YLS and HP1DRK to be QRV as H91IT from Taboga Island, IOTA NA-072, from January 6 to 9. QSL via HP1RCP.

**THAILAND, HS.** John, ZB2JK is QRV as HS0ZIQ from Phuket Island, IOTA AS-053, until January 10. Activity is on the HF bands. QSL to home call.

**JAPAN, JA.** Take, JA8DKJ is QRV as 8J8SSF from Hokkaido, IOTA AS-078, until February 12 during the Sapporo Snow Festival. QSL via bureau.

**PERU, OA.** Members of the Radio Club Peruano are QRV with special event call sign 4T18PAX during all of January to commemorate the Apostolic visit of Pope Francis. Activity is on all HF bands using CW, SSB, CW, RTTY, PSK31 and FT8. QSL via OA4O.

**ANTIGUA, V2.** Randy, WW6RG will be QRV as V25RA from January 8 to 10. Activity will be holiday style with QRP power on 20 meters using SSB. QSL to home call.

**BELIZE, V3.** Jim, W2JHP is QRV as V31TA from Turneffe Atoll, IOTA NA-123, until January 10. Activity is in his spare time on the HF bands using mostly SSB, and possibly some digital modes. QSL direct to EA5GL.

**CHAGOS ISLANDS, VQ9.** Jim, ND9M is QRV with special call VQ920JC. He is generally active on 17 meters using CW. QSL to home call.

**LAOS, XW.** John, KK4FB is QRV as XW4FB from January 9 to 23. QSL via LoTW.

**COUNTRY NAME CORRECTION.** As reported in 2017 DX News Bulletin ARLD052, the correct country for the RI50ANO operation from Bellingshausen Base on King George Island, IOTA AN-010 is South Shetlands, not Antarctica.

**THIS WEEKEND ON THE RADIO.** The ARRL RTTY Round-up, Kid's Day SSB Contest, NCCC RTTY Sprint, QRP 80-Meter CW Fox Hunt, NCCC CW Sprint, PODXS 070 Club PSKFest, World Wide PMC Contest and EUCW 160-Meter CW Contest are all on tap for this upcoming weekend.

The CWops Mini-CWT Test, Phone Fray and QRP 40-Meter CW Fox Hunt are scheduled for January 10.

The ARRL International Grid Chase runs during all of 2018.

Please see January 2018 QST, page 89, and the ARRL and WA7BNM Contest Web Sites for details.

NNNN



***CLASSIFIED***

Space Available to push your stuff



## LINKS AND STUFF

*Under re-construction. Watch for the orange barrels*

*Delta County Amateur Radio*  
*Escanaba, MI*  
[www.dcars.org](http://www.dcars.org)

*Cooper Country Radio Amateur*  
*Dollar Bay, MI*  
[www.ccras.net](http://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 —	100.0
	444.85 — 100.0
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

**Copper County ARES**  
 146.88  
 Wednesday 9pm EST

**Mich-A-Con Social and  
ARES**  
 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/>

Band Conditons: <http://bandconditions.com/>

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

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[tmartin@chartermi.net](mailto:tmartin@chartermi.net)

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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 Yaesu DR 1 digital and Analog repeater Frequency. 146.85 minus offset, 100 hz PL tone encode and decode Power 50 watts. The Controller is an Arcom RC 210 . It is also System Fusion capable.

. The 440 MHZ repeater is a GE Master II 444.85, plus offset, 100 hz pl tone. 35 watts output. The Controller is a Arcom 210.

The 2 meter and the 440 can be linked. 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.*

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	<a href="mailto:wb8ebs@yahoo.com">wb8ebs@yahoo.com</a>
W8XBO	ARMBRUST	ED	IRON MOUNTAIN	906-779-5593	<a href="mailto:w8xbo@sbcglobal.net">w8xbo@sbcglobal.net</a>
KC9KVP	BAKER	BETH	NIAGARA		
KB9AVX	BAKER	SCOTT	NIAGARA	715-251-1944	<a href="mailto:kb9avx@yahoo.com">kb9avx@yahoo.com</a>
KB8SBP	BERTOLDI	BILL	KINGSFORD		
W8BEY	BEY	DANA L.	KINGSFORD	906-774-7937	<a href="mailto:lst797@charter.net">lst797@charter.net</a>
K8DDA	BRAY	MIKE	VULCAN	906-201-1550	<a href="mailto:mikebray@chartermi.net">mikebray@chartermi.net</a>
KE9L	CASWELL	SKIP	IRON MOUNTAIN	906-774-3371	<a href="mailto:acaswell4238@charter.net">acaswell4238@charter.net</a>
KC8QZG	DAKE	DAVE	NEWBERRY		
KC9ZBC	DOLATOWSKI	SCOTT	GOODMAN	715-633-1006	<a href="mailto:kc9zbc@live.com">kc9zbc@live.com</a>
KC9TQR	FERRIS	JOE	FLORENCE	517-589-4386	<a href="mailto:jrferris@borderlandnet.net">jrferris@borderlandnet.net</a>
N9MBG	FRY	ED	PEMBINE	906-221-7307	<a href="mailto:efry7849@gmail.com">efry7849@gmail.com</a>
KG8NK	GEMBOLIS	LOUIS	ISHPEMING	906-485-5442	<a href="mailto:lgembolis@chartermi.net">lgembolis@chartermi.net</a>
KD8VTS	GRABOWSKI	DEBRA	CRYSTAL FALLS	906-284-2450	<a href="mailto:kd8vts@gmail.com">kd8vts@gmail.com</a>
KD8VTT	GRABOWSKI	WILLIAM	CRYSTAL FALLS		
KC8TH	HEYBOER	TOM	IRON MOUNTAIN	906-779-0481	<a href="mailto:heyboer.tom@gmail.com">heyboer.tom@gmail.com</a>
N8ATS	HOLMES	SAM	PEMBINE	906-322-8507	<a href="mailto:chopsam@centrylink.com">chopsam@centrylink.com</a>
KA8TFF	JARMUSCH	SCOTT	IRON MOUNTAIN		
KB9EMU	KNUTSON	WILLIAM	FENCE	715-336-2250	<a href="mailto:dknutson54@gmail.com">dknutson54@gmail.com</a>
KB8ETK	KOMBLEVICZ	JOSEPH	IRON MOUNTAIN	906-774-4094	<a href="mailto:kombleviczj@charter.net">kombleviczj@charter.net</a>
KD9HQD	LaLIBERTE	BRUCE	NIAGRA, WI	?	<a href="mailto:liberte@borderlandnet.net">liberte@borderlandnet.net</a>
W8JWN	MARTIN	THOMAS	IRON MOUNTAIN	906-774-5463	<a href="mailto:tmartin@chartermi.net">tmartin@chartermi.net</a>
WA8FXQ	MEYERS	BOB	VULCAN	906-396-0119	<a href="mailto:meyersb@uplogon.com">meyersb@uplogon.com</a>
KC8LRP	MEYERS	MARGE	VULCAN	906-396-8913	<a href="mailto:mgmeyer@uplogon.com">mgmeyer@uplogon.com</a>
N8TUM	MILLER	TIMOTHY	FLORENCE	715-696-6517	<a href="mailto:timmiller.up@gmail.com">timmiller.up@gmail.com</a>
K9TRY	MORIRITY	TERRY	NIAGARA	715-251-1670	<a href="mailto:kb9zer@yahoo.com">kb9zer@yahoo.com</a>
ND8M	PAUL	JARED	NORWAY	989-660-9535	<a href="mailto:jaredpaul@me.com">jaredpaul@me.com</a>
KD8SZA	PAUL	MICHELLE	NORWAY		
KC9NFT	PERRON	BARRY	FLORENCE	715-696-6175	<a href="mailto:bperron2@netzero.com">bperron2@netzero.com</a>
KC8JRI	REED	GORDY	IRON MOUNTAIN	906-779-1254	<a href="mailto:gordyreed@charter.net">gordyreed@charter.net</a>
K8ABS	RIVERSIDE	JIM	IRON MOUNTAIN	906-458-0773	<a href="mailto:jriverside@charter.net">jriverside@charter.net</a>
W8IFI	RYE	JIM	CRYSTAL FALLS	906-875-3582	<a href="mailto:jimrye@up.net">jimrye@up.net</a>
K4FMX	SCHAFAER	GARY	NIAGRA, WI	?	<a href="mailto:GARYSCHAFAER@LARGERIVER.NET">GARYSCHAFAER@LARGERIVER.NET</a>
KG9Y	THOMAS	DAVE	NIAGARA	715-251-1393	<a href="mailto:kg9y@arrl.net">kg9y@arrl.net</a>



MICH - A - CON

**Please remit dues to:**

**Debbie Garbowski, KD8VTS  
203 Camp 5 Road  
Crystal Falls, MI 49920**

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.