



MIDLAND AMATEUR RADIO CLUB  
PO BOX 1049, MIDLAND, MICHIGAN 48641  
www.w8kea.org

President	Kevin Martin KD8QAM	(989) 513-0100
Vice President	Mark Rodgers KC8GRQ	(517) 672-1060
Secretary	Linda Hodges KC8MUD	(989) 486-3771
Treasurer	John Wolters W8QN	(989) 832-9122
W8KEA Station Trustee	Larry Macklin N8CGP	(989) 631-7748
Midland County EC/RO	John Wolters W8QN	(989) 832-9122
Midland County AEC	Chris Rose KB8UIH	(989) 832-7179
Newsletter Editor	Pat Mullet KC8RTW	(989) 828-6657
Newsletter Publisher	Art Peters K0ACP	(989) 400-3745
ARRL Liaison	John Tallman KB8PGW	(989) 859-0364
Web Page Chairman	John McDonough WB8RCR	(989) 631-0178
Club Historian	Stan Rowe K6VWE	(989) 837-7252
Quartermaster	Lee Hodges KC8ITI	(989) 486-3771
Public Information Officer	Pat Mullet KC8RTW	(989) 828-6657
Field Day Committee	Kevin Martin KD8QAM/ch	(989) 513-0100
	Pat Mullet KC8RTW	(989) 828-6657
Swap Committee	Mark Rodgers KC8GRQ/Ch	(517) 672-1060
	Pat Mullet KC8RTW	(989) 828-6657

#### LIFE MEMBERS

Don W8WOJ, Lee KC8ITI, Dennis N8ERF, Larry N8CGP, Denny WD8BPT, John WB8RCR

Midland County Public Service Net, Thursdays at 9 PM

W8KEA Repeater — 147.000 MHz+ PL 103.5 • W8QN Repeater — 443.325 MHz+ PL 103.5

W8KEA Digipeater — 145.090 MHz

Next ARES®/RACES Meeting — Thursday July 2, 2015, 6:00 PM

Law Enforcement Center, 2727 Rodd St.

Next CLUB Meeting — Thursday July 2, 2015, 7:30 PM

Salvation Army Building, 330 Waldo.

Talk-in 147.000+

## September 2015

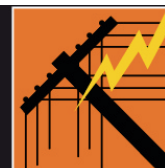
### Static Discharge

Kevin Martin, KD8QAM

Well this will be the last month for the club's current leadership. I will be stepping down as president and there maybe a few other personnel changes. I would like to thank everyone for their help with the clubs activities and volunteering over the past couple of years. Even if you were to answer a few questions or be an Elmer for someone, thank you. I will look forward to seeing the meetings from the chairs. Thank you and it has been a pleasure.

Kevin KD8QAM

**When all else fails...  
...Amateur Radio!**



## MARC Meeting Minutes from July 2nd, 2015

The meeting was called to order by Kevin KD8QAM at 7:40P.M. with 20 members present. A sign-in sheet was

### MARC MEETINGS

Mark Rodgers KC8GRQ, is in charge of special events and topics for the MARC monthly meetings. If you have any agenda items, or topics for the meetings, please contact Mark at (517 672-1060), or via e-mail: kc8grq@yahoo.com

### COMMUNICATIONS

Pat Mullet, KC8RTW, is in charge of communications and publicity for the club. If you have any questions or ideas regarding these areas, please contact Pat at kc8rtw@arri.net

### EXAMINATION SCHEDULE

*Saginaw* - All future VE testing will be done on an appointment basis only.

*Corunna* - Contact Thomas Carpenter (517) 579-0599 ki8as@charter.net.

*Bay City* - All future VE testing will be done on an appointment basis only.

*Isabella/Clare Counties* - Contact Gus Glass, K8GUS at k8gus@arri.net

With all examinations, your original license, a copy of that license, a second photo identification (drivers license, etc.) and a check or money order for \$15.00 made out to "ARRL/VEC" are required.

The address listed below gives testing sessions scheduled for Michigan. <http://www.arri.org/arrivec/exam-search.phtml?State=MI>

### SUBMISSIONS FOR NEWSLETTER

Contact Pat Mullet, KC8RTW at kc8rtw@arri.net if you want to submit anything for the newsletter.

I need your items by the 15th of the month. Anything received after that may not make it into the newsletter for that month.

If you prefer to download the MARC newsletter from our web site, or have trouble with delivery via USPS, contact John, W8QN at w8qn@arri.net.

### MEDIA HITS!

Have you seen or heard mention of the Midland Amateur Radio Club in the news or in the paper? If so, please forward it, or mention of it to either Pat, KC8RTW (kc8rtw@arri.net) or Kevin (cherryredirocz@sbcglobal.net)

passed around and introductions were made.

Please bring any corrections or additions to the attention of the secretary.

EC/RO Report-Chris KB8UIH- One storm watch and one storm warning in the last month. Dave N8LBF added that there will be a state exercise that tests some equipment at a remote facility on August 6th. See Dave if you would like to help.

Treasurer's report-Larry N8CGP- Thank-you to all who renewed your membership. Swap Financial Report and a Swap idea discussion followed.

Presentation- Steve WA8Y- Steve brought a docudrama series of several DX Expeditions at different extremely remote sites around the world. Afterwards the guys discussed The 13 Colonies contest.

Dirty Dog Run-Lee KC8ITI- Mark your calendars for Sept 19th if you can help out with the Dirty Dog Run at City Forest.

Field Day- Dave N8LBF- Field Day was successful. Thank-you to everybody who participated. The social time and pot luck meal was especially appreciated. Thanks to Cindy, WD8BDM and John, W8ZSX for Kitchen duty.

Other discussions included the Michigan Section Outing near Lupton and the Hamfests that are coming up.

NET Controls  
July 9th Dave N8LBF  
July 18th Lee KC8ITI  
July 23rd Keith KB8SOE  
July 30th Linda KC8MUD

A motion to adjourn was made by Cindy WD8BDM. Seconded by Del WB8FYR.

The meeting was adjourned at 9:05P.M.

Respectfully Submitted,  
Linda KC8MUD  
MARC Secretary

*Amateur Radio  
is a Contact Sport!*

## MARC Meeting Minutes August 6th 2015

The meeting was called to order by Kevin KD8QAM at 7:42P.M. with 33 members present. A sign-in sheet was passed around and introductions were made.

Please bring any corrections or additions of the minutes to the attention of the secretary.

Announcements – Don W8WOJ has an article in QST. Cindy WD8BDM passed around an early CMARA newsletter.

EC/RO Report-Chris KB8UIH- One storm watch in the last month. Thanks to all that checked in. Dave N8LBF – Several state and district ARES/RACES exercises coming up. See Dave for more information.

Treasurer's report-Larry N8CGP- Thank-you to all who renewed your membership. Revised swap Financial Report given and a Swap idea discussion followed.

Newsletter Editor – Pat KC8RTW- Pat is in Medilodge in Mt. Pleasant for rehab. Steve WA8Y is taking over the duties of newsletter editor.

Field Day- Thanks to Cindy WD8BDM and John W8ZSX for Kitchen duty.

The Kiwanis Club – Dennis N8ERF – Kiwanis donated a \$5000 grant to the Midland

High School club for ongoing projects. Thank you

North East Middle School – Dennis N8ERF – New Radio club starting this fall. If interested in helping contact Dennis.

Tower available – Art K0ACP – Art knows someone that needs a tower taken down. For more info contact Art.

Fall Picnic – KC8MUD – No fall picnic this year unless someone else wants to do it

Club project build – Dennis N8ERF – Planning another club kit build for this fall. This kit will be a 40 meter receiver with a kit cost between \$25-\$30. More information at the next meeting

NET Controls August 13th  
Dave N8LBF  
August 20th Dennis N8ERF  
August 27th John W8QN

A motion to adjourn was made by Larry N8CGP  
Seconded by Dorie N8WTQ

The meeting was adjourned at 8:08P.M.

Respectfully Submitted,  
Lee KC8ITI acting for  
Linda KC8MUD  
MARC Secretary

### Upcoming Events

9/19 Dirty Dog Run  
at City Forrest

### Michigan Hamfests

9/19 Shelby Twp gmarc.org  
9/20 Adrian w8tqe.org  
10/3 Wyoming w8dc.org  
10/10 Alpena  
ThunderBayARC.org  
10/17 Muskegon  
10/18 Kalamazoo  
12/6 Mount Clemens

### Area Nets

SVARA; Mn, 147.24 MHz, 2100 ET  
Gladwin; Tu, 147.18 MHz, 2000 ET  
BAARC; Tu, 145.31 MHz, 2100 ET  
Isabella Co EOC 146.72 Mhz, 1900 ET  
Canadian Lks, Wed, 146.8, 2100 ET  
Edmore, Th, 146.8, 2000 ET  
MARC; Th, 147.00 MHz, 2100 ET  
District 3 ARPSC; Su, 145.31 MHz, 1830 ET  
Mi VHF Trffc Net; MWF, 145.15 MHz, 0900 ET  
TMMTN; Mon-Sat, 147.30 MHz, 2130 ET  
MACS; Sun-Sat, 3953 kHz 1100 ET  
MIARPSC; Su, 3932 kHz, 17:00 ET  
UPN; Sun-Sat, 3920 KHz, 17:00 ET  
MITN; Sun-Sat, 3952 kHz, 1800 ET  
QMN; Sun-Fri, 3563 kHz, 1830 & 2200 ET  
WSSBN, 3932 kHz, 1900 ET  
UP-ARES; Fr, 3932 kHz, 1930 ET  
GLETN; Sun-Sat, 3932 kHz, 2030 ET  
SEMTN; Sun-Sat, 145.33, 2215 ET  
MIDTN - 1900 local Tu, Th, Sat 3.583  
+waterfall, Oivia 8/500

### MARC MERCHANDISE

T-Shirt	S- XL	\$10
	2X - 3X	\$12
Long-Sleeve Tee	S- XL	\$12
	2X - 3X	\$15
Crew Sweatshirt	S- XL	\$18
	2X - 3X	\$20
Hoodie	S- XL	\$24
	2X - 3X	\$26
Zipper Hoodie	S- 3X	\$30
Winter Coat	S- XL	\$42
	2X - 3X	\$45
Spring Jacket	S- XL	\$32
	2X - 3X	\$35
Hat		\$10

All garments are royal blue with white print and embroidered name and number. Extended sizes available.

Please call Bill Lee at B&C Sportswear with questions @ (989) 839-4537.

I replaced the coil in my screwdriver antenna (made from aluminum fence wire) with a coil made from stainless steel wire. The antenna performs differently. I no longer need a shunt coil and the Q must be lower because I have more bandwidth. I also modified the roof rack support brace, replacing the deck screws for ones attached to a knob so I can remove the brace without tools. I did a Windows 10 upgrade on my small ham shack workstation (Dell 660, that had Windows 8.1). All of my applications and data came thru the Windows 10 upgrade, except for my browser Favorites. I soon discovered Microsoft's new browser, Edge, keeps Favorites under an icon they call the Hub. After typing in a URL manually, Edge asked if I wanted to open the page in Internet Explorer. When I clicked yes, I was asked if I wanted to import all my Favorites to Edge, and the problem was solved. I have had to use Internet Explorer to order some R/C model airplane parts, as the vendor's website could not complete the transaction using Microsoft's Edge browser. I had been using Mozilla Firefox for a browser until Adobe Flash player failed to upgrade. It is good to have more than one browser on your PC.

I updated my Windows 7 laptop (Dell Inspiron 1545) to Windows 10 and it started faster. However, Windows 10 did not have drivers to support the motherboard based video card in my laptop. The default

resolution was too inferior to live with. So I reverted back to Windows 7 before my 30 days expired. I will try again in three or four months. At Dayton I bought an Arrow antenna to work satellites (hand-held dual-band yagi made from aluminum arrows). I heard it was possible to work the SO-50 satellite from an HT. I was happy to confirm this with a QSO on my second attempt. I am using AmsatDroid Free to locate the satellites. It is an easy to use app for Android phones. With it I know; the time of a satellite pass, its duration (usually about 10-15 minutes), its AOS (Acquisition of Signal), maximum elevation for the pass, LOS (Lost of Signal) and its trajectory as displayed on a 2-D compass rose type of map. I set up in my driveway. The trees don't bother me too much but man-made structures like houses can knock out the satellite signal. It's been a lot of fun and I recently heard G3VKV on the FO-29 satellite. I was happy to make a Satellite QSO thru the FO-29 satellite with W3AO during FD. I have been working the SSB satellites with my IC-7000 running about 9 watts. The Doppler shift is hard to keep up with, especially when the satellite is directly overhead. Will Halphen, K8VFO built a AZ-EL rotor that is controlled (wirelessly) by his laptop running SatPC32. We used it during FD and a few other times since then to work the SO-50 satellite with a Baofeng UV-5RE (4watt, FM, dual-band, HT) radio. I

often use my GoPro camera to record the QSOs. They happen so fast, and with one hand is holding the antenna and the other the mic, it's hard to write.

Dave Wallick, N8LBF has a new tower and Comet P-9 UHF/VHF antenna at 40 feet. Will, K8VFO and I helped install the tower base. Denny, WD8BPT tack welded a perfectly spaced tilt-over frame and Will and I climbed a ladder to attach a support to the house at the fascia. A week or so later, Lee, KC8ITI, Dennis, N8ERF, helped Dave mount the antenna and two more tower sections before raising the antenna. Dave, N8LBF recently bought a used IC-7000. Will, K8VFO has a very nice hot air soldering/de-soldering tool. He removed the diode, and I tested the rig in my car and it works! We were going to modify my IC-7000 but discovered the modification had already been done. With this modification complete we can both operate our rigs on 60 meters. Finally, here is a YouTube video you might enjoy. In another hobby, Radio Controlled models, FPV, or First Person View was recently taken to a whole new level. Radios with a watt or more are used without a license all over the world. Is it legal, I don't think so but that will not stop this activity check out this video. He flew the plane down from space. Copy this URL into your browser.

<https://www.youtube.com/watch?v=rpBnurznFio>

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*It's Not Your Grandfather's  
Amateur Radio!*



## **Midland High School Amateur Radio Club News** **Now the *Electronics and Wireless Communications Club***

In order to better represent to the students what it is that we do, we have changed the advertised name of the club to the "Electronics and Wireless Communications Club". We are currently gearing up for our third year. With the sunspot cycle crashing to a healthy low, we won't forget HF communications but we will be focusing on electronics and other forms of wireless communications.

I want to thank the Midland Kiwanis for a \$5000 grant to the club for equipment and software to support the continued development of communication and tracking technology with the International Space Station and other activities of the club. This is a huge boost to our Satellite Communications program.  
THANK YOU!

We have also changed the night on which the club will be

meeting. We will now be meeting on Tuesday evenings from 7:00 to 9:00 PM in Room 321, Midland High School. Our continued thanks to Andrew Fawcett for the use of his Physics classrooms!

There are three major areas of focus of the committee right now. First, based on our learnings from the first two years of operation, we are changing our curriculum. Second, since we only have two returning students, Max and Bryce, we are placing a major focus on recruitment. Third, we are focused on designing our Satellite Communications station equipment.

I am pleased to announce that the Northeast Middle School Electronics and Wireless Communication Club will also be starting up this fall, with teacher, Bernadette Wood, and Will Halphen, K8VFO, partnering with me to make this happen. The club

will be meeting after school on Wednesday evenings.

Keep an eye on this spot as I will be reporting on our second balloon launch adventure which is scheduled for October!

I wish to express my sincere thank you to the Midland Kiwanis for their generous donation and to the following folks who continue to volunteer their time, knowledge and enthusiasm to help make this happen; Andrew Fawcett-KD8ULJ, Lee Hodges-KC8ITI, Art Peters-K0ACP, Will Halphen-K8VFO, Dennis Caney-WD8BPT, John Henley-AC8QF, John McDonough-WB8RCR, John Wolters-W8QN, and Bernadette Wood.

Best Regards,  
Dennis Klipa, N8ERF  
Advisory Board Chair  
N8ERF@arrl.net

### **MARC VITAL STATISTICS**

MEMBERSHIPS EXPIRING August or September 2015

NONE

CURRENT ACTIVE CLUB MEMBERSHIP 46

BIRTHDAYS CELEBRATED IN AUGUST 2015

N8XD 8/1 KB8QWO 8/3 K8VFO 8/6 KB8QYB 8/9

N8LBF 8/17 WD8BPT 8/18 W8JB 8/23 KD8MRB 8/24

WB8FYR 8/24 KD8IWB 8/27 N8DHF 8/29 KD8EUR 8/31

ANNIVERSARIES CELEBRATED IN AUGUST 2015

KD8QXL and 8/4 KB8TBI and Margie 8/8

WB8FYR and WD8ODG 8/13 KA0KPP and Gail 8/19

## *Explore the World with Amateur Radio!*

## ***August 2015 Michigan Section News***

August, 2015

Greetings to the Hams of Michigan:

Amateur Radio Parity Act of 2015

Note: This information was also published last month, but needs to be revisited as we still need to press our Representatives and Senators to support HR 1301 and S 1685. US Senator Roger Wicker (R-MS) introduced S 1685 on June 26, with Senator Richard Blumenthal (D-CT) as the original cosponsor, into the US Senate.

The wheels of Congress turn with help of communication from constituents. Without our guidance and direction to tell our representatives what we want them to do, they try to do their best but amateur radio regulations are not high on their list of concerns. It is up to us to advise them that those regulations are high on our list and we would like them to support our legislation. As you know, the House of Representatives version is known as HR 1301 and it currently has 95 co-sponsors. Michigan is fortunate in that four of our Representatives have signed on as co-sponsors of HR 1301 (Walburg, Huizenga, Bishop, and Benishek). If your Representative is not one of these four, consider sending a letter to him or her asking for their support and possibly co-sponsoring HR 1301. If your Representative has not yet signed on as a co-sponsor, sending them a second letter requesting their support is not a problem. If your representative is one of the four MI co-sponsors, please send them a letter thanking them for their support.

Now the focus takes a new direction:

Contacting our US Senators asking them to support and consider co-sponsoring S 1685. This makes our work a bit easier than it was with our Representatives in that every citizen in Michigan has the same US Senators:

Senator Debbie Stabenow and Senator Gary Peters. ARRL members are urged to contact their members of Congress in both the House and the Senate, asking them to sign on to the

bill as cosponsors. Complete information is available on the ARRL website at <http://www.arrl.org/amateur-radio-parity-act>.

Be sure to pay attention to ensure that if writing your Senators, that you send letters only to your Senators. While the list of your congressional representatives on the ARRL website includes both congress-persons AND Senators, please be sure to choose the Senators for letters directed to members of the Senate, and the same for Representatives. The most effective method of contacting your Representative or Congress-persons are: By routing your letter(s) through the ARRL either by snail mail or by signed letter converted to a PDF file and emailed.

Correspondence will be sorted at ARRL Headquarter and hand delivered to the appropriate US Representatives and Senators. We suggest that you follow the instructions on the aforementioned ARRL web page. A sample letter is available for you to download and customize with the Senator or Representative's name and address and your name and address, print, sign and send to the ARRL for hand delivery in Washington.

Club Presidents:

In advance of your next meeting, prepare two letters, one addressed to Senator Stabenow and the other addressed to Senator Peters.

Remove the sender's name and address prompts from the letter. Print or copy the appropriate numbers of letters and take them to your club meeting. Ask that all hams that have not yet sent a letter to their Senators to sign one letter for each Senator and add their address, city, state and zip code.

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

ARRL

225 Main St

Newington, CT 06111

Attn: S1685 Grassroots campaign

If you would like to avoid the postage costs,

you can scan the letters into PDF format and then email them to: [reginfo@arrl.org](mailto:reginfo@arrl.org)

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

2015 Great Lakes Division Convention

This year's convention is now history. We had a great time in Columbus and I had the distinct pleasure of presenting a number of awards to Michigan hams and to representatives of Michigan amateur radio clubs.

The Michigan newsletter first place plaque was presented to the Blossomland ARA "Rusty Key" and the second place plaque was presented to the Michigan QRP Club's "5 Watter". Thanks go to both clubs for sending representatives to the convention to accept the awards.

The Great Lakes Division Newsletter award was won by the "Delara News" from the Delaware ARA, Delaware, OH.

The ARRL Service to Scouting award was presented to Frank Maynard, NF8M for his many years of service to the scouts of Michigan.

The Michigan Ham of the Year was presented to Ed Hude, WA8QJE for his many years of tireless effort to get a Michigan PRB-1 bill passed into Michigan law.

Many thanks to the Michigan Section HF Sound Card Demo Team members John, AC8W and Joe, KJ8O who presented a forum at the GLD Convention.

News from around the Section

From President Tom Bosscher, K8TB from the Holland ARC:

On August 1, the Holland ARC held another "Ham in a Day" class and graduated 6 more technicians. In the last 3 years, over ten sessions, the Holland ARC has added 75 technicians to the ranks. Several, who are club members, have gone on to get their general and extra class licenses, and have learned to spend money the amateur radio way!

A great success story from the west coast (of MI)!

Hospitality Acknowledgements

July 25, 2015 CMARC Trunk Sales, Lansing, MI - WB8R

Aug 1, 2015 Spark in the Park, Wyoming, MI- KC9ON

Aug 1, 2015 UP Hamfest, Escanaba, MI – W8CT

Aug 14, 2015 CMARC Club Meeting, Lansing, MI – WB8R

It was a pleasure for us to attend your event and I thank you for the hospitality you have shown to me and my staff.

Hamfests, Meetings and Section Staff Travel Plans

Aug 16, 2015 Seaway Trunk Swap, Port Huron, MI

Sep 17, 2015 Monroe County Radio Comms Assn Meeting – WB8R

Sep 19, 2015 GMARC Fall Trunk Swap

Sep 20, 2015 Adrian Hamfest, Adrian, MI – WB8R

Sep 26, 2015 QMN Picnic, Flint MI – WB8R

Oct 3, 2015 GRAhamfest, Wyoming, MI – WB8R

Oct 10, 2015 TBARC Swap, Alpena, MI

Oct 17, 2015 Muskegon Hamfest, Muskegon, MI – WB8R

Oct 18, 2015 Kazoo Hamfest, Kalamazoo, MI Card Checker – WB8R

Oct 25, 2015 USECA Hamfest, Madison Hts, MI – WB8R

Dec 6, 2015 L'Anse Creuse Hamfest, Mt. Clemens, MI – WB8

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 Tfc Net 3.583 (Olivia 8/500) in w/fall 2000 Tu, Th, Sa

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 July, 2015: WB9JSR 603, WB8WKQ 206, K8RDN 138, WB8TQZ 109, K8ED 109, N8FVM 82, WD8USA 52, WD8MWD 44, W8MSK 29, WB8RCR 14, WB8R 5, N8OSL 4, KD8EBY 2, KD8LSM 2.

Total SAR reported: 1399

BPL for July, 2015: WB9JSR 603.

PSHRs for July, 2015: N8OSL 373, N8FVM 300, WB8RCR 279, KC8YVF 183, WB8R 176, WD8USA 170, WD8MWD 160, KD8EBY 156, WB9JSR 130, NE8B 117, WB8TQZ 110, WB8WKQ 110, K8RDN 100, K8ED 90, KD8LSM 34, KC8NFN 28.

Net traffic for July, 2015: MITN 141, MACS 132, QMN 126, MVTN 68, UPN 45, GLETN 35, SEMTN 29, MIDTN 16, SCAN 6, NLEUP 4, D3AN 2, GCARPSC 1, MIARPSC , MIADS , BARTS , CARCN , BCEN , D5HN , GRRC , D8EN , OCARS .

Total net traffic reported: 605

Total ARES hours dollar value: \$190,885

Total NTS dollar value: \$38,815

Total Public Service dollar value: \$229,700

If you are reporting monthly, you can see your PSHR eligibility status at <http://www.nts-mi.org/>. The full details are at: <http://www.arrl.org/public-service-honor-roll>. This award recognizes the efforts of hams that are active in public service. Those reporting accumulate points for checking into nets, volunteering, holding Section appointment(s) and handling message traffic.

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

If you have difficulty knowing how to report and how to complete the FSD 212 form, assistance is as close as your District EC or your Section EC. If you don't know who these folks are, you can locate them here: <http://ares-mi.org/ECcontact.php>. They stand ready to help you.

Until next time,

73,

Larry, WB8R

## ***EC/RO Report Chris KB8UIH***

One storm watch in the last month. Thanks to all that checked in. Several state and district ARES/RACES exercises coming up.

<http://ares-mi.org/>

<http://ares-mi.org/txtblk.php?topic=14100>

The SOS Dirty Dog Trail Run is September 19th, 2015. We have

been asked to supply safety communications again. This is a low impact event. It will take place at City Forest north of the Fair grounds. I can use as many operators as I can get. The first race starts at 9 AM so we should be on station by 8 AM or a little after 8 AM. I should be on site by 7 AM for setup. The event takes place rain or shine. The entrance to City Forest is off of Monroe Rd. West of Eastman. If you can

lend a hand for a couple of hours on the 19th. Let me know at (989) 486-3771 or email me at [kc8iti@arrl.net](mailto:kc8iti@arrl.net).

See Dave, N8LBF for more information.

## ***Technical Topics and Information***

### ***Researchers Decode CASSIOPE Satellite Field Day Fly-Over Experiment Results***

The University of Calgary's "Enhanced Polar Outflow Probe (ePOP) Radio Receiver Instrument (RRI)" on the CASSIOPE satellite was able to detect several ARRL Field Day stations on June 28. CASSIOPE (CAscade Smallsat and Ionospheric Polar Explorer) is a Canadian-designed and built satellite. The RRI listened on 80 and 40 meter segments. Virginia Tech graduate researcher Nathaniel Frissell, W2NAF, said that during the first 25 seconds of 7 MHz reception, he and his team aurally decoded and identified 23 stations, most in Illinois, Wisconsin, and Indiana, before the signals "abruptly disappeared." He said very few signals were detected on 80 meters.

"This experiment was designed to simply test the feasibility of conducting HF Amateur Radio-satellite ionosphere and propagation studies," Frissell told ARRL.

"These results show that this is feasible, and that it is possible to detect interesting geophysical features." The others involved in the analyzing the results were Gareth Perry of the University of Calgary; Ethan Miller, K8GU, of Johns Hopkins University's Applied Physics Lab; Magdalena Moses, KM4EGE, of Virginia Tech, and CW Skimmer developer Alex Shovkoplyas, VE3NEA.

The sudden disappearance of signals on 40 meters, Frissell said, suggests that CASSIOPE was passing over regions of differing ionospheric electron densities. "The plasma frequency of the ionosphere is directly proportional to the square root of the electron density," he explained. "Signals transmitted from Earth and vertically incident on the ionosphere will be reflected back to Earth at the altitude where the plasma frequency matches the transmitted frequency. A satellite flying above this layer will be shielded from the signals below." The ePOP experiment on CASSIOPE is a suite of eight instruments that study the outflow

of plasma from the ionosphere into near-Earth geospace.

More @

<http://www.arrl.org/arrlletter?issue=2015-08-06#toc08>

### ***Updated Canadian Band Plan Released:***

The Radio Amateurs of Canada Band Planning Committee has released an updated band plan for all LF and HF (0-30 MHz) Amateur Radio allocations. This includes the new LF bands at 2200 and 600 meters, the 60 meter channels, and changes to reflect current best practice on other bands. The updated band plan represents the RAC Band Planning Committee's year-long review of all LF and HF allocations. RAC said the updated band plan is intended as a quick reference guide, summarizing all bands on a single page. -- Thanks to George Gorsline, VE3YV, RAC International Affairs Officer  
<http://wp.rac.ca/rac-0-30-mhz-band-plan/>

# ***Amateur Radio. . . We Do That!***



## ***More Technical Topics and Information***

### ***Talk of Pending P5 Operations So Far Remains Just Talks***

Persistent optimism continues to prop up the hopes of several individual radio amateurs and groups to mount a DXpedition to the most-wanted and elusive DXCC entity on the globe -- the Democratic People's Republic of North Korea (P5). To date, no recent efforts have succeeded. The latest to announce that plans for a P5 operation are on the verge of success are Antonio Gonzalez, EA5RM, and Manuel German, EA7AJR, both DXpedition veterans. On their fourth trip to North Korea since 2013, Gonzalez and German met on August 17 with what they described as "high-level officials" in North Korea's telecommunications ministry. In an August 17 news release, Gonzalez and German said that the officials in Pyongyang -- North Korea's capital -- "were very kind, receptive, and cooperative. They knew everything about ham radio, so it was really easy to talk with them about our ham radio operation project." The pair began efforts to secure permission for a North Korea operation more than 2 years ago.

"If everything goes as it is going up [until] today, I can tell that we are very close to get[ting] permission," the news release concluded.

Unidentified North Korean telecommunications ministry officials flank Manuel German, EA7AJR (second from left), and Tony Gonzales, EA5RM, during a visit to Pyongyang, North Korea.

Gonzalez and German are not alone in attempting to be the next to activate North Korea since Ed Giorgadze of the Republic of Georgia operated as P5/4L4FN in 2001 and 2002, making more than 16,000 contacts before being asked abruptly to cease transmitting and pack up his gear. The ARRL subsequently accredited his SSB and RTTY operation for DXCC. Giorgadze, who was working for the UN World Food Program in Pyongyang at the time, had tried for more than 2 years before obtaining oral permission from North Korean authorities to operate.

Earlier this year, Polish radio amateur Dom Grzyb, 3Z9DX, announced that he had secured written permission to operate from North Korea in January or February 2016. He is supposed to go to Pyongyang for a final meeting to discuss guidelines for the operation, which would be for 5 days, SSB only, on 20, 15, and 10 meters from a secured location with 24/7 government supervision.

More @ <http://www.arrl.org/arrlletter?issue=2015-08-20#toc04>

### ***FCC Proposes to Fine Ohio Radio Amateur for Malicious Interference, Failure to Identify***

The FCC has proposed levying an \$8000 fine on a Cincinnati, Ohio, radio amateur, Daniel R. Hicks, KB8UYZ, who at one point had volunteered to track down the interference he was causing on a number of primarily VHF repeaters. In a Notice of Apparent Liability for Forfeiture (NAL) released on August 20, the FCC Enforcement Bureau asserted that Hicks intentionally interfered with other Amateur Radio operators' communications and failed to identify properly. According to the NAL, an agent from the Bureau's Detroit office first responded to multiple complaints of interference on various repeaters in April 2014.

"The agent, working with a local amateur group which included Mr Hicks, was unable to locate the source of the transmission," recounted the NAL, signed by FCC District Director James Bridgewater. Nearly a year later, in response to continued interference complaints, an agent from the Bureau's Detroit office returned to the Cincinnati area to take another crack at finding the source of the transmissions.

More @ <http://www.arrl.org/arrlletter?issue=2015-08-27#toc04>



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If you desire to join the Midland Amateur Radio Club, the dues are \$20 per year for an individual membership. A family membership is available for an additional \$5 per year which covers all of the individual's family members. Family members must reside at the same address as the primary member to be eligible for the family member rate. The membership dues help to cover the operating expenses of the Club, and its radio systems. Membership includes Autopatch privileges on the W8KEA repeater (147.000+), voting privileges at MARC meetings, and a monthly newsletter. Please supply the following information:

Name: \_\_\_\_\_ Callsign: \_\_\_\_\_ License Class \_\_\_\_\_  
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Home Phone (\_\_\_\_) \_\_\_\_\_ Work Phone (\_\_\_\_) \_\_\_\_\_  
E-mail address \_\_\_\_\_  
Spouse: \_\_\_\_\_ Callsign: \_\_\_\_\_ License Class \_\_\_\_\_  
Birthday: (mm/dd) \_\_\_\_\_ Anniversary: (mm/dd) \_\_\_\_\_  
Desired newsletter format: Paper copy via USPS \_\_\_\_\_ or via e-mail \_\_\_\_\_

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We request this information so we can communicate with you regarding MARC business, and periodically send you newsletters and congratulatory birthday & anniversary greetings. We do not sell this information nor will we knowingly publicize private information without your permission. Information that is publicly available may be distributed to Club members for various purposes, including membership lists, without prior notification.

You may give this completed form to the MARC treasurer, or you may mail it to:

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