

MICH-A-CON

Iron Mountain, **Dickinson County, Mich**

June 2018

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Which is June 13, 2018 at 07:00 PM at the Dickinson Library, Iron Moun-tain.Please be there and support the cause of Amateur Radio.	From The President	Ι
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Be there to support our cause.	Field Day Map	4
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Field Day is coming! Get ready for flies, "skeeters", and rain/snow beginning Saturday morning on June 23 rd . Every Field Day has a picnic and a camp out	WiAW Schedule	8
atmosphere. The camaraderie, just being together, is more important than the number of contacts and final score.	ARRL Michigan Section News	9
This year will be different in that we will be away from Pine Mountain. The	ARRL Dales Tales	11
Mich-A-Con ARC team will be setting up at member, Gary's (K4FMX), farm in Aurora, WI. (See map)	Propagation Bulletin	13
Hopefully, as many members as possible can come and see the club in opera- tion.	ARRL DX Report	15
Antenna work will begin on Friday, June 22 nd , at 1:00 pm. at the farm. I will be	Classified	17
at the van at 12:30 to load the generator and other communication supplies.	Links and Stuff	18
The picnic will begin at 11:45 before the contest/emergency exercise begins at	About Our Club	19
1:00.	DX Code Conduct	20
See you at the next meeting Wednesday, June 13 at 7 pm in the library.	Membership List	21
73,	Membership Form	22
Tom W8JWN		





Gary, K4FMX, working on W8JWN's 40 meter beam boom.

MICH-A-CON AMATEUR RADIO CLUB MINUTES OF May 9th, 2018

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

Secretary Report Minutes of the April 11th, 2018 meeting were read and approved.

Treasurer Report

Balances as of May 9th, 2018: Checking: \$111.01 Savings: \$3511.92 (Repeater: \$1551.62) Cash: \$28.00

Repeater Report

Bob Meyers reported that a 440MHz link to the Marquette repeater system will soon be possible. The link radio is being donated. He also reported that three of the antennas require relocation, re pair, or replacement. We are currently using the worst of our antennas, however it is working fine.

A motion to purchase a new Hustler antenna as a backup for the repeater (Skip Caswell/Terry Mori arity) was approved unanimously.

Old Business

Plans for ARRL Field Day were started, to be continued at the June meeting.

Publicity: Joe Ferris will contact local officials and Daily News.
Food and Drink: Tom Martin will talk to Aurora Liquor & Econo Foods. Terry Moriarity will talk to Marcouiller's.
Antennas: We need to create a map for antenna locations.
Callsign: KC8VC

Class: 3A Wisconsin (WI)

Setup: Friday (6/22) - Specifics to be determined.

Picnic: Saturday (Prior to the start of Field Day.)

New Business

Bob Meyers distributed a guide with commands for operating the Marquette link and to rec ord and playback voice messages.

Adjournment

Meeting adjourned at 7:38 pm.(Skip Caswell/Terry Moriarity)

The 50/50 drawing was won by Tom Martin. The club treasury was enriched by \$30.00.

For the Good of the Order

Attendees reported on their recent activities.

Attendees

Tom Martin Scott Jarmusch Joe Ferris Debbie Grabowski	W8JWN KA8TFF KC9TQR KD8VTS	Bob N Bruce Brian
Bill Grabowski Gary Schafer Skip Caswell Dave Thomas	KD8V13 KD8VTT K4FMX KE9L KG9Y	Joyce

Terry Moriarity Bob Meyers Bruce LaLiberte Brian Lucas Joyce Williams K9TRY WA8FXQ KD9HQD KD9KKB Visitor





ARRL Asks FCC to Protect Amateur Radio Millimeter-Wave Bands

QST de W1AW ARRL Bulletin 10 ARLB010 From ARRL Headquarters Newington CT May 9, 2018 To all radio amateurs

ARRL has asked the FCC to avoid authorizing developmental technologies in two Amateur Radio bands above 95 GHz that some radio amateurs may not be unaware of. The ARRL commented on May 2 in response to a Notice of Proposed Rule Making and Order (NPRM&O) in ET Docket 18-21, released in February. The so-called "Spectrum Horizons" proceeding seeks to make the bands above 95 GHz "more readily accessible for new innovative services and technologies."

ARRL said that, while it agrees that "regulatory flexibility is justified" in the millimeter-wave bands above 95 GHz, due to the extensive frequency re-use possibilities, the FCC ought to make two primary Amateur/ Amateur Radio Satellite bands in that part of the spectrum unavailable for deployment of unlicensed Part 15 or Part 5 Experimental Spectrum Horizons devices. Amateur Radio has primary allocation status in the bands 134 - 136 GHz and 248 - 250 GHz, both shared with the Radio Astronomy Service, which is secondary.

The NPRM&O can be found on the web in PDF format at, <u>https://apps.fcc.gov/edocs_public/attachmatch/FCC</u> <u>-18-17A1.pdf</u>

"The amateur allocations require protection against increases in the noise floor due to aggregate radio frequency devices," ARRL said.

"The bands are used ubiquitously and unpredictably, typically, but not always, at high elevations for research and development purposes and propagation studies, for terrestrial point-to-point, satellite, and Earth-Moon-Earth communications experimentation."

ARRL said it would oppose "any proposal to permit unlicensed devices or largely unregulated experimental operations" in the two primary Amateur Radio allocations in the range of spectrum the FCC is considering. "It is critical to preserve for Amateur Radio experimentation the current relatively quiet noise floor, and the positive RF environment that now exists in those two relatively small band segments," ARRL told the FCC. The League's comments noted that the secondary Radio Astronomy Service in those two bands also requires a quiet RF environment.

In strongly urging that the FCC not permit unlicensed Part 15 in either primary amateur band "under any circumstances," ARRL pointed out that the FCC has no data concerning increases in the noise floor from potentially large numbers of unlicensed Part 15 devices in either band. Additionally, ARRL said, "There is no compelling need to include these two bands among those which might be made available for unlicensed devices and systems in this proceeding."

ARRL said it also would oppose the authorization of Spectrum Horizons experimental authorizations in the two primary Amateur/Amateur Satellite allocations, operating under a new subpart for Spectrum Horizons Experimental Radio Licenses" in the spectrum at issue.

ARRL said it would be difficult for such applicants to make an accurate showing of non-interference in the two amateur allocations, "due to the variety and itinerant nature of Amateur Radio allocations."

If the FCC should nonetheless decide to permit Spectrum Horizons experimental authorization applicants to apply for 134 - 136 GHz and 248 - 250 GHz, however, ARRL said applicants should have to "demonstrate convincingly" that no other suitable allocations are available, and that they coordinate their operations with ARRL when filing an application.

The omnibus NPRM&O includes consideration of a Petition for Rule Making (RM-11795) from Missouri radio amateur James Whedbee, NOECN.

He asked the FCC to adopt rules to permit the operation of unlicensed devices in the 95 - 1000 GHz range, by and large applying the same technical rules to those unlicensed operations as currently apply in the 57 - 71 GHz band.





"Overall, the Commission is on the right track in this proceeding,"

ARRL allowed. Opening the millimeter-wave bands to expanded unlicensed operation is not unreasonable. "Some, but not all, of the bands above 95 GHz can be removed from the Part 15 restricted band list in Section 15.205(a) of the Commission's rules without significant concern," ARRL concluded. "However, the Amateur Radio primary allocations at 134 - 136 GHz and 248 - 250 GHz, which are shared with radio astronomy, should be unavailable for either Part

15 operation or for other commercial development." NNNN

ARLB011 Amateur Radio Parity Act Language Inserted in National Defense Authorization Act

QST de W1AW ARRL Bulletin 11 ARLB011 From ARRL Headquarters Newington CT May 11, 2018 To all radio amateurs

ARRL is praising the work of US Representatives Joe Courtney (D-CT), Vicky Hartzler (R-MO), and Mike Rogers (R-AL) for their successful efforts in securing language in the National Defense Authorization Act (NDAA) for Fiscal Year 2019 that aids in the survival and growth of Amateur Radio by giving radio amateurs the right to install an outdoor antenna at their residences with the approval of their homeowners associations. This language - text from the proposed Amateur Radio Parity Act (HR 555) - formed the basis for the Courtney-Hartzler-Rogers Amendment to the NDAA.

The amendment, offered by the bipartisan trio and accepted by the House Armed Services Committee by voice vote, will ensure that Amateur Radio operators will continue to play a vital role in disaster communication, when called upon. Amateur Radio has longstanding relationships with the Department of Defense through both the Military Auxiliary Radio Service (MARS) as well as spectrum sharing.

The Armed Services Committee passed the NDAA by a 60-to-1 voice vote after a 14-hour markup that ran well into the night. The bill now awaits House floor action. The Senate will begin its markup of the NDAA during the week of May 21.

Representatives Courtney and Adam Kinzinger (R-IL) spearheaded the effort to include the Parity Act language in the NDAA. Both are cosponsors of the Parity Act, which has passed the House by voice vote twice in the past 2 years.

Recognizing the long-standing relationship between Amateur Radio and the Department of Defense, Congressman Kinzinger - who served multiple tours for the USAF as a fighter pilot and is still a Major in the Air National Guard, and Courtney, who represents the House district that includes ARRL Headquarters, have been champions of the legislation in Congress.

"The steadfast support of the Amateur Radio community continually demonstrated by Congressmen Kinzinger and Courtney has been a godsend," said Hudson Director Mike Lisenco, N2YBB. "The Parity Act wouldn't be anywhere close to this stage without their strong support, and our organization is extremely grateful."

Lisenco, who serves as Chairman of the ARRL Board's Legislative Advocacy Committee, also recognized other promoters of Amateur Radio, including House Energy and Commerce Committee Chairman Greg Walden, W7EQI (R-OR), Energy and Commerce Ranking Member Frank Pallone (D-NJ), and House Armed Services Committee Chairman Mac Thornberry (R-TX). "We are deeply grateful for their continued understanding and support," Lisenco said.

ARRL will continue to press for support to enact the Amateur Radio Parity Act throughout the legislative process. NNNN

Great Lakes Division Registered Hamfests to End of Year

summer approaching, here is an update of the currently registered ARRL hamfests in the Great Lakes Division through the end of the year.

5/18/18	Dayton HamVention [®]
6/2/18	IRA
6/2/18	Fulton County
6/2/18	Princeton Hamfest
6/3/18	Chelsea Hamfest
6/9/18	Luce County
6/9/18	Union County
6/16/18	Midland Hamfest
6/16/18	Milford Hamfest
6/17/18	Monroe Hamfest
7/8/18	20/9 Radio Club Tailgate and Hamfest
7/21/18	GARS Germantown Hamfest
7/21/18	NOARS Fest
7/21/18	Gladwin
7/22/18	Van Wert
7/28/18	Big Sandy Hamfest
7/28/18	CMARC Outdoor hamfest
7/29/18	Portage Hamfair
8/4/18	Columbus Hamfest
8/4/18	UP Hamfest
8/11/18	Central Kentucky
8/12/18	Cuyahoga Falls Tailgate Swap
8/12/18	Seaway Trunk Swap
9/8/18	Grand Rapids GRAHamfest
9/8/18	Greater Louisville Hamfest
9/9/18	Findlay
9/16/18	Central Kentucky Hamfest
9/16/18	Adrian
9/22/18	OHKYIN ARS Hamfest
9/23/18	Cleveland Hamfest
9/29/18	Paintsville Hamfest
10/6/18	Vette City
10/8/18	Michigan State Convention/GL HamCon
10/10/18	Microwave Update
10/13/18	Cave Run Hamfest

Xenia, OH Hudsonville, MI Tedrow, OH Princeton, KY Chelsea, MI Newberry, MI Marysville, OH Midland, MI Milford, OH Monroe, MI Austintown, OH Germantown, OH Elyria, OH Gladwin, MI Van Wert, OH Louisa, KY Lansing Ravenna, OH Columbus, OH Escanaba, MI Lexington, KY Stow, OH Port Huron, MI Wyoming, MI Sheperdsville, KY Findlay, OH Richmond, KY Adrian, MI Cincinnati, OH Berea, OH Paintsville, KY Bowling Green, KY Brooklyn, MI Fairborn, OH Moorehead, KY

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QST de W1AW ARRL Bulletin 8 ARLB008 From ARRL Headquarters Newington CT March 12, 2018 To all radio amateurs

Morning Schedule:

Time Mode Days

1300 UTC (9 AM ET) CWs Wed, Fri 1300 UTC (9 AM ET) CWf Tue, Thu

Daily Visitor Operating Hours:

1400 UTC to 1600 UTC - (10 AM to 12 PM ET) 1700 UTC to 1945 UTC - (1 PM to 3:45 PM ET)

(Station closed 1600 to 1700 UTC (12 PM to 1 PM ET))

Afternoon/Evening Schedule:

2000 UTC (4 PM ET) CWf Mon, Wed, Fri 2000 " " CWs Tue, Thu 2100 " (5 PM ET) CWb Daily 2200 " (6 PM ET) **DIGITAL Daily** 2300 " (7 PM ET) CWs Mon, Wed, Fri 2300 " " CWf Tue, Thu 0000 " (8 PM ET) CWb Daily 0100 " (9 PM ET) **DIGITAL Daily** 0145 " (9:45 PM ET) VOICE Daily 0200 " (10 PM ET) CWf 0200 " " CWs Tu Mon, Wed, Fri Tue, Thu 0300 " (11 PM ET) CWb Daily

Frequencies (MHz)

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 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 2230 UTC (6:30 PM ET), 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

0000 UTC (8 PM ET) Thursdays and 0000 UTC (8 PM ET) Fridays.

Audio from W1AW's CW code practices, and CW/digital/ phone bulletins is available using EchoLink via the W1AW Conference Server named "W1AWBDCT." The monthly W1AW Qualifying Runs are presented here as well. The CW/digital/phone 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.

FCC licensed amateurs may operate the station from 1400 UTC to 1600 UTC (10 AM to 12 PM ET), and then from 1700 UTC to 1945 UTC (1 PM to

Pag

Notes:

3:45 PM ET) Monday through Friday. Be sure to bring your current FCC amateur license or a photocopy.

on page 90 in the March 2018 issue of QST or on the web at, <u>http://www.arrl.org/w1aw-operating-</u><u>schedule</u>.

The complete W1AW Operating Schedule may be found NNNN



Greetings to all the Amateurs of Michigan,

There are many exciting things happening relative to amateur radio, especially within our state. I encourage everyone to jump on in, try something new or different, and share your skill and expertise with others. This would be a great time to go to a club meeting that you haven't attended for a while.

I have heard many comments either in person or on the air relative to the ARRL request to expand HF privileges for Technician Licensees. Feel free to share your thoughts with your fellow amateurs, and of course your section team.

The ARRL Great Lakes Division Convention at Hamvention this year will be my first as your Section Manager. I'm looking forward to meeting up with you at the ARRL Expo area, the Great Lakes HamCon booth (6612), or perhaps wandering the flea market. The ARRL Expo area will be even better than it was last year at Hamvention.

Great Lakes HamCon News

Plans are in full swing for the second annual Great Lakes HamCon, October 6th and 7th, 2018.

There are a number of improvements being planned to make this event even better than the inaugural showing, but I'm particularly proud and excited about the efforts that our government liaison team (Ed, WA8QJE and Larry, WB8R) made on improving the sales tax issues for vendors attending this venue.

When you are buying or browsing equipment or parts from vendors, point them to the Great Lakes HamCon website (glhamcon.org) or our own section website for more details. Please encourage vendors to visit us in October!

Section Staff Changes

During the next several weeks, I'll be posting staff changes on the Section website. Many of our existing staff members have served proudly for many years, and their lives are moving into next chapters. I deeply appreciate all that they have done for amateur radio in the Michigan section, and will truly miss them. Please join me in welcoming new staff members when the announcements are posted.

Hospitality Acknowledgements

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

April 17th, Branch County Amateur Radio Club April 29th, GM Radio Club Swap

Michigan ARRL Section Staff Travel Plans



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Michigan ARRL Section Staff Travel Plans

May 18th, 2018 Great Lakes Convention (Hamvention) -K8JK June 2nd, 2018 Hudsonville IRA Swap – K8JK June 3rd, 2018 Chelsea Club Swap – 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
- SEMTN 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 April 2018**

Station Activity Reports (SAR) for April 2018:

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

The Feedback I have personally received from the Hamvention[®] attendees was very positive again this year. A little rain did not seem to be too disappointing. We had great attendance at the ARRL EXPO Booth and it was neat get around to see some new products introduced by key amateur radio equipment manufacturers. At the ARRL Forum, President Rick Roderick K5UR covered some of the essentials coming under review at the next ARRL Board meeting. Those included some needed updates to the ARRL Articles of Association as recommended by the ARRL's Connecticut attorneys. Rick also reported that the Board will be considering a template of a Code of Conduct provided through the National Council of Non-profits.

At the ARRL Forum, I was able to present an overview of the planned upgrades to the nationwide ARES program. This included the newly developed ARES Strategic Plan which will serve as the guideline for ARES in the future. At this point, the Strategic Plan must be approved by the ARRL Programs and Services Committee and also the Board of Directors. This may mean changes to the plans before they are introduced in the field, but the team remains optimistic there will be minimal changes. The entire program was actively reviewed by a team of experienced Section Managers, Section Emergency Coordinators and Emergency Coordinators during the development process. Look for more information to be forthcoming from ARRL HQ over the next few months. Needless to say HQ staff will be busy updating much of the ARES material the League publishes to bring it in line with the new program.

Since 1935, we have done a great job with the ARES, but changes in the needs of our served partner agencies, their demands for improved training, alignment with the National Incident Management System and the Incident Command System, technological changes and new messaging requirements have all come into play in bringing ARES into a new age.

Further progress on Amateur Radio Parity Act. As you are aware, the House has passed HB 555 and it was stalled in

the Senate by Sen. Bill Nelson of Florida. It was then attached to the National Defense Appropriations Bill and passed the house by a significant margin. It has also been attached to the House Financial Services and General Government Appropriations Act. It has cleared the subcommittee and is on its way to the full House. The Senate has not yet taken up these two measures. Please bear in mind that this legislation directs the FCC to draft a regulation similar to PRB-1 to allow the installation of effective amateur radio antennas in certain areas where they are not permitted because of deed covenants and restrictions.

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

Of all the varied activities associated with ham radio, I have a lot of favorites, but the one that I focus on most is emergency communications.

Not surprising, I guess, since I've been involved with it for more than thirty years. And I haven't been in that many disasters. A few over the years, but much more of my energy has been in preparation—which has paid off in those few disasters where it really counted.

So the focus of Hamvention this year on things like the response to the hurricanes on the islands, or the Em-Comm vehicles, the ARES upgrade, all were things I relate to.

It was great seeing and hearing about the response of local hams on the Virgin Islands and Puerto Rico. Meeting Oscar Resto, KP4RF, the PR Section Manager, was a real treat. He's an inspiring person. It's hard to imagine the devastation that they witnessed and lived through. And there were stories from lots of other people about how they coped with the disaster.

No one knows what we're faced with in the Division this year. Certainly the long winter, followed by two days of spring, followed by early summer, isn't our normal weather pattern. And the fact that we had a tropical depression before June 1st doesn't seem like a good sign. We hope we won't face some of the problems others have, but there's no telling. Meanwhile, keep your



equipment in good working order, charge those batteries, and take some additional training so you can help if called upon in whatever natural or man-made disasters may come our way.

--73, Tom W8WTD Vice Director, Great Lakes Division

HAMFESTING: Here is the current Great Lakes Division ARRL Sanctioned Hamfest Schedule covering the next couple of months. These swaps have received their sanctioning approval from ARRL HQ at the time of this publication. We have approximately 65 ARRL hamfests each year in the Division. I do encourage each Hamfest Chair to register early for ARRL Sanctioning. Be sure to invite your ARRL Officials as soon as your date is set.

6/2/18	IRA Hamfest	Hudsonville, MI
6/2/18	Fulton County Hamfest	Tedrow, OH
6/2/18	Princeton Hamfest	Princeton, KY
6/3/18	Chelsea Hamfest	Chelsea, MI
6/9/18	LARS Hamfest	Newberry, MI
6/9/18	Union County	Marysville, OH
6/16/18	Midland Hamfest	Midland, MI
6/16/18	Milford Hamfest	Owensville, OH
6/17/18	Monroe Hamfest	Monroe, MI
7/8/18	20/9 Radio Club	Austintown, OH
7/21/18	GARS Hamfest	Germantown,
	ОН	
7/21/18	Gladwin Hamfest	Gladwin, MI
7/21/18	NOARS Fest	Elyria, OH
7/22/18	Van Wert Hamfest	Van Wert, OH
7/28/18	Big Sandy Hamfest	Louisa, KY
7/28/18	CMARC Hamfest	Lansing, MI
7/29/18	Portage Hamfair Ravenna, OH	
8/4/18	Columbus/OH Sect Con	fColumbus, OH
8/4/18	UP Hamfest	Escanaba, MI
8/11/18	Central KY Hamfest	Lexington, KY
8/12/18	Cuyahoga Falls Hamfest	Stow, OH
8/12/18	Seaway Trunk Swap	Port Huron, MI

Be sure to check your Section's news pages for the latest local happenings, club and net information.

73, Let's light up the bands,

Dale Williams WA8EFK Director **Great Lakes Division**

ARRL PROPAGATION BULLETIN

QST de W1AW Propagation Forecast Bulletin 23 ARLP023 From Tad Cook, K7RA Seattle, WA June 8, 2018 To all radio amateurs

ARLP023 Propagation de K7RA

Sunspots vanished again after appearing on every day, from May 21 through June 4. Average daily sunspot numbers this week (May 31 through June 6) dropped from 26.3 to 12.9.

Average daily solar flux declined from 74.9 to 73.2. Aver- there are sufficient atoms to provide an ionosphere acage planetary A index increased from 3.9 to 11.7 while average mid-latitude A index increased from 4.7 to 10.4.

Predicted solar flux is 69 on June 8 to 10, 70 on June 11 to 14, 72 on June 15 to 17, 74 on June 18 to 23, 72 on June 24 to 30, 73 and 72 on July 1 and 2, 70 on July 3 to 7, 72 on July 8 to 14, 74 on July 15 to 20 and 72 on July 21 and 22.

Predicted planetary A index is 5 on June 8 to 12, 8 on June 13, 5 on June 14 to 18, 8 on June 19, 5 on June 20 to 26, then 15, 28 and 18 on June 27 to 29, 10 on June 30 through July 1, 8 on July 2, 5 on July 3 to 9, 8 on July 10, 5 on July 11 to 15, 8 on July 16, and 5 on July 17 to 22.

Summer solstice in the Northern Hemisphere is coming up in less than two weeks, on Thursday, June 21, just before ARRL Field Day weekend.

Around this time of year we may see sporadic-E propagation on ten meters, and sometimes on six meters.

Check this site devoted to ten meter sporadic-E:

http://www.chem.hawaii.edu/uham/spore.html

June 23 and 24 is Field Day weekend. Predicted solar flux of 74 and

72 looks promising, and the planetary A index prediction of 5 for both days is excellent. Previously the planetary A index was predicted at 8 for Sunday, and 5 is better.

Bill Mader, K8TE, president of the Albuquerque DX Association wrote:

"I hope you and Dr. Skov can educate folks about HF communications on the planet Mars. Although Mars' atmosphere is approximately 0.6 per cent of Earth's,

https://en.wikipedia.org/wiki/AtmosphereofMars

cording to some scientists (see https://bit.ly/2xTY06z).

However, reading this paper, it's obvious the authors do not have a lot of experience with the subject since they state the Mars ionosphere 'reflects' radio signals, rather than refracts them.

Long ago, I gave a presentation to a middle school class on this very subject. This is before the scientific community knew about Mars' complicated atmosphere, much less its ionosphere. I suggest satellite communications would be necessary between explorers on Mars' surface. It may well be you will eventually need to provide HF propagation predictions for hams on Mars."

VK5EEE wrote, regarding a recent inquiry on HF beacons:

"Beacons on bands other than 10m on HF (28200 to 28300 kHz) are discouraged by the IARU, however, there are a few exceptions that have been approved (and many unapproved beacons).

The most famous and useful is DKOWCY. The German website (with a few pages in English) has a wealth of information. I have also corresponded with DDK9, the German RTTY WX station on 30m and obtained information about that station too. To make it easy for hams,



I have put together pages that make it easy to find what you need about these. Please take a look:

http://www.30cw.net/dk0wcy and http://www.30cw.net/ddk9

A very fun beacon is IY4M that is licensed just below the 10m exclusive beacon band (28200 to 28300) on 28195, and also on 12m.

It is extremely hard to find information about this beacon, which is sad, as it is an amazing work.

You can QSO with the beacon in CW and it is very friendly and upbeat, you give it various commands, such as to speed up, slow down, send this or that info, etc. I used to love having regular QSOs with it from Europe especially during Sporadic E seasons.

All best wishes,

73 de Lou VK5EEE"

This is from George Ockwell, K7HBN:

"Perhaps it occurred too late in the reporting period, but I'm surprised you didn't receive any comments on the exceptional conditions during the WPX CW Contest. Here in Western Washington 20 meters was open to somewhere the full 48 hour period. The SFI was 74 to 75 with the A Index 4 to 5 and the K Index 0 to 1. 15 meters was open to South America with some JA as well.

Brief openings also happened on 10 meters."

That was last weekend on May 26 and 27. See https://www.cqwpx.com/

Here is a propagation resource for the upcoming Baker Island DXpedition: http://www.baker2018.net/pages/propagation.html

Other resources from K6TU: https://www.k6tu.net/

For more information concerning radio propagation, see

the ARRL Technical Information Service at <u>http://arrl.org/propagation-of-rf-signals</u>. For an explanation of numbers used in this bulletin, see <u>http://arrl.org/the-sun-the-earth-the-ionosphere</u>.

An archive of past propagation bulletins is at <u>http://arrl.org/w1aw-bulletins-archive-propagation</u>. More good information and tutorials on propagation are at <u>http://k9la.us/</u>.

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

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

Sunspot numbers for May 31 through June 6, 2018 were 21, 22, 20, 16, 11, 0, and 0, with a mean of 12.9. 10.7 cm flux was 76.8, 74.8, 74.4, 73.6, 70.5, 71.3, and 71.1, with a mean of 73.2. Estimated planetary A indices were 12, 26, 17, 9, 5, 6, and 7, with a mean of 11.7. Estimated mid-latitude A indices were 11, 19, 14, 9, 5, 6, and 9, with a mean of 10.4. NNNN

ARRL DX NEWS

QST de W1AW DX Bulletin 24 ARLD024 From ARRL Headquarters Newington CT June 7, 2018 To all radio amateurs

ARLD024 DX news

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

VIET NAM, 3W. Nobu, JA0JHQ plans to be QRV as 3W9NH from Hoi An from June 14 to 18. Activity will be on the HF bands, and possibly

6 meters, using CW and FT8. This includes being an entry in the upcoming All Asian DX CW contest. QSL direct to home call.

RWANDA, 9X. Harald, DF2WO is now QRV as 9X2AW from Kigali.

Activity is on various HF bands using slow CW, SSB and various digital modes. QSL via MOOXO.

FEDERAL REPUBLIC OF GERMANY, DA. Special event station DK6GEO will be QRV during the Geoparks Communication Weekend from Unicorn Cave. QSL via operators' instructions.

IRELAND, EI. Members of the South Eastern Amateur Radio Group will be QRV as EI2GEO from the Copper Coast European Geopark during the Geoparks Communication Weekend. QSL direct to EI3HDB.

ESTONIA, ES. Operators Henrik, DG0LFF, Steffen, DH1DM, Fred, DH5FS and Uwe, DL3BQA will be QRV as ES0/home calls and ES0UG/8 from various islands from June 11 to 15. Their fist stop will be Kihnu Island, IOTA EU-178. Activity will be on the HF bands, including 6 meters, 4 meters, 2 meters, 70 centimeters and 3 centimeters using various modes. QSL via operators' instructions.

FRENCH POLYNESIA, FO. Walter, HB9XBG is QRV as FO/ HB9XBG from Bora Bora Island, IOTA OC-067, until June 17. Activity is on 20 meters using SSB. QSL to home call.



rect to home call.

ENGLAND, G. Special event station GB6GEO will be QRV on June 9 and 10 from Kent's Cavern, Torbay, as part of the Geoparks Communication Weekend. Activity will be on 80, 40, 20, 15, 10 and 6 meters, in addition to 6 meters using SSB, and 2 meters using FM. QSL via bureau.

AMERICAN SAMOA, KH8. Dave, WJ2O is QRV as KH8/ WJ2O until June 10.

Activity is on 40 to 15 meters using CW. QSL direct to N2ZN.

MARKET REEF, OJO. Pasi, OH3WS will be QRV as OJOW while on work assignment from June 9 to 16. Activity will be in his spare time on 40 to 6 meters using CW and SSB. QSL to home call.

BONAIRE, PJ4. Lauren, WOLD and Jon, NOJK are QRV as PJ4/home calls until June 11. Activity is on the HF bands and 6 meters using CW, SSB and FT8. They plan to be active as PJ4V in the ARRL June VHF contest. QSL both calls via WOLD and PJ4V via MOURX.

SAO TOME AND PRINCIPE, S9. David, EB7DX is QRV as S9ZZ from Sao Tome Island, IOTA AF-023, until June 9. Activity is holiday style on 40 to 6 meters using CW, SSB, RTTY and FT8. QSL direct to home call.

GREECE, SV. Special event station J48GEO will be QRV from Lesvos Island, IOTA EU-049, from the Natural History Museum at the Lesvos Petrified Forest during the Geoparks Communication Weekend. QSL via operators' instructions.

DODECANESE, SV5. Marcel, OK2QQ will be QRV as SV5/ OK2QQ from Kalymnos and Telendos, IOTA EU-001, from June 12 to 22. Activity will be on 40 to 2 meters using CW, SSB and FM. QSL direct to home call.

COSTA RICA, TI. A group of operators are QRV as TE6DX from Unita Island, IOTA NA-155, until June 11. Activity is on 160 to 6 meters using CW, SSB, RTTY and FT8. QSL via TI2CDA.

CORSICA, TK. Arnoud, PE2USA will be QRV as TK/PE2USA near Sari-Solenzara, IOTA EU-014, from June 10 to 15. Activity will be on 40, 20 and 10 meters, and possibly 80 meters, using SSB and RTTY. QSL via operator's instructions.

ASIATIC RUSSIA, UA0. Special event station R30STM is QRV until June 10 from both Tyumenskaya and Kurganskaya Oblasts to commemorate the 30th anniversary of the launching of the Soyuz TM-5 spacecraft. QSL via operators' instructions.

MARSHALL ISLANDS, V7. Will, KW4WZ plans to be QRV as V73/KW4WZ from Kwajalein, IOTA OC-028, until June 18. Activity is in his spare time on the HF bands using some SSB, and JT65 and FT8. QSL via LoTW.

BERMUDA, VP9. Kyle, WA4PGM is QRV as VP9/WA4PGM until June 16. Activity is on 160 to 6 meters using mostly CW. QSL di-

ROMANIA, YO. Look for special event station YP2GEO to be QRV during the Geopark Communication Weekend from Tara Hateulul. QSL via operators' instructions.

THIS WEEKEND ON THE RADIO. The ARRL June VHF Contest, NCCC RTTY Sprint, Geoparks Communication Weekend, NCCC CW Sprint, DRCG World Wide RTTY Contest, VK Shires Contest, Asia-Pacific SSB Sprint, SKCC Weekend CW Sprintathon, Portugal Day Contest, GACW WWSA CW DX Contest, REF DDFM 6-Meter Contest and Cookie Crumble QRP Contest are all on tap for this weekend.

The 4 States QRP Group Second Sunday Sprint is scheduled for June 11.

The CWops Mini-CWT Test, RSGB 80-Meter Club CW Championship, NAQCC CW Sprint and Phone Fray are scheduled for June 13.

The ARRL International Grid Chase runs during all of 2018.

Please see June QST, page 82, and the ARRL and WA7BNM Contest Web Sites for details. NNNN

MICH-/	A-CON			Page 17
C	CLASSIF	TED		
Lady that has the Heath Kit radi	os for sale	Kim Hixon	850-830-8664	
Guy that has all the tubes	Corky Walt	er <u>bottlestopp</u>	er@yahoo.com	
Bruce KD9HQD				
Space Availabl	e to push yo	ur stuff		



LINKS AND STUFF

Under re-construction. Watch for the orange barrels

Delta County Amateur Radio Escanaba, MI <u>www.dcars.org</u>

Cooper Country Radio Amateur Dollar Bay, MI <u>www.ccraa.net</u> **Area Repeaters** 100.0 Escanaba 147.15+ 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 146.64 100.0 Gwinn $\begin{array}{r} 146.85 - 100.0 \\ 444.85 - 100.0 \end{array}$ Iron Mtn **Iron River** 145.17- 107.2 146.91- No PL Ishpeming IRLP 8993 443.50+100.0 Manistique 146.79 - No PL 146.97 - No PL Marquette 147.27 + 100.0444.80+ No PL 147.00+107.2 Menominee Newberry 146.61 + No PL 147.09+114.8 Republic 147.09+ No PL 147.03 + 100.0Trenary 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 0600UTC Dailey Midcars 7258khz Daily 0730am EST 0200pm EST 9614 **Outhcars** Node 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: <u>http://www.arrl.org</u>

ARRLMICHIGAN:

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

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

MICH-A-CON :

http://www.qsl.net/ka1ddb

http://www.arrl-mi.org/

FCC Universal Licensing System:

http://wireless.fcc.gov/uls/

QTH Com:http://www.qth.com/QRZhttp://www.qtrz.com/E Ham Nethttp://www.eham.net/

UP Skywarn: http://kcra-mi.net/skywarn/

Band Conditons: http://bandconditions.com/

ABOUT OUR CLUB

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We're on the Web!

http://www.qsl.net/kalddb/

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

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.

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.



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

SkyWarn Spotters (2018)

Steve Johnson	K8CRY	Millie Hill
Tom Martin	W8JWN	Millie Hill Overlook
Burt Armbrust	WB8EBS	Hill above Wells Fargo, along US-2
Skip Caswell	KE9L	Merriman/Granite Bluff area
Barry Perron	KC9NFT	Keyes Peak
Bob Meyers	WA8FXQ	Faithhorn area (if not in Copper Country)
Terry Moriarity	K9TRY	Niagara
Dave Thomas	KG9Y	Niagara
Bill Grabowski Debbie Grabowski	KD8VTT KD8VTS	Mansfield Township/Johnson Potato Farm area
Sam Holmes	N8ATS	Pike Plains, Dunbar
Joe Ferris	KC9TQR	Vicinity of CR-N, U, & C in Florence County
Scott Dolatowski	KC9ZBC	Goodman

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
K8DDA	BRAY	MIKE	VULCAN	906-201-1550	mikebray@chartermi.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
N9MBG	FRY	ED	PEMBINE	906-221-7307	efry7849@gmail.com
KG8NK	GEMBOLIS	LOUIS	ISHPEMING	906-485-5442	lgembolis@chartermi.net
KE8FWN	GRABOWSKI	BILLY	CRYSTAL FALLS	?	
KD8VTS	GRABOWSKI	DEBRA	CRYSTAL FALLS	906-284-2450	kd8vts@gmail.com
KD8VTT	GRABOWSKI	WILLIAM	CRYSTAL FALLS		
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N8ATS	HOLMES	SAM	PEMBINE	906-322-8507	chopsam@centrylink.com
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KB9EMU	KNUTSON	WILLIAM	FENCE	715-336-2250	dknutson54@gmail.com
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KE8GHE	LUNDAMO	DUANE	?	?	?
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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
KE8GHH	RITTENHOUSE	DAVE	IRON MOUNTAIN	?	?
K8ABS	RIVERSIDE	JIM	IRON MOUNTAIN	906-458-0773	jriverside@charter.net
W8IFI	RYE	JIM	CRYSTAL FALLS	906-875-3582	jimrye@up.net
K4FMX	SCHAFER	GARY	NIAGRA, WI	?	GARYSCHAFER@LARGERIVER.NET
KG9Y	THOMAS	DAVE	NIAGARA	715-251-1393	kg9y@arrl.net

BLACK: Paid Members BROWN: Past or Unpaid Members Page 21

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.