



MICH-A-CON

Iron Mountain,
Dickinson County, Mich

September 2016

Meeting Reminder: **Second Wednesday of the Month**

Which is **September 14, 2016** at **07:00 PM** at the **Dickinson Library, Iron Mountain.**

From The President

Today felt a little bit like fall. Cool and cloudy with periods of rain. As I have mentioned before in my "Words", September through November is my favorite time of year in the U.P. The odor of leaves burning and frosty mornings can't be beat. This is also a time of improved radio propagation, hopefully, that will be the case this fall. Yet, we are starting the downward slide of the solar cycle ; so, we can't expect SFI's in the 160 range anymore. The only way to find out how the bands will be is to turn on the radio and listen.

I finally got my coax replaced on my SteppIR! The SWR on all of the bands 10-20 is near perfect. So far, the antenna tunes better than it did when I put it up 8 years ago. Merv's Tree Service used their 60 foot bucket to do the work. It was more expensive than I expected but at least I have an antenna at 72 feet again.

Gary, K4FMX, came over and found my rotor problem. Now, I can turn it toward the DX! We didn't even have to climb the tower (HI!) to fix it. More details at the meeting on Wednesday at 7:00 PM at the library. Notice the time change.

Great news! We don't have to move the club storage van. It will remain in the same spot at UPI Trucking. Details at the meeting.

I didn't hear KC8VC at the Peninsula Point Lighthouse but I saw them spotted on the cluster. We'll hear the whole story Wednesday at 7:00 PM.

We are now the Mich-A-Con ARC, LLC registered with the State of Michigan. You guessed it. Details at the next meeting.

Scott, KA8TFF, built a very nice looking doublet antenna for the club. He also made one for our treasurer Joe, KC9TQR. Thanks Scott.

Well, that's it for now. **See you at 7:00PM in the Dickinson County Library.**

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73,

Tom W8JWN

MICH-A-CON AMATEUR RADIO CLUB MINUTES OF August 10, 2016

President Tom Martin called the meeting to order at 6:30 pm.

Secretary Report

Minutes of the July 13th meeting were read and approved.

Treasurer Report

Balances as of August 10, 2016

Checking: \$158.69

Savings: \$1725.18 (\$347.60 repeater)

Cash: \$22.00

Repeater Report

Skip Caswell reported that there is some loss of coverage to the north. Terry Moriarity reported that he was able to hit the repeater from Morgan Park, which he couldn't do in the past. Morgan Park is to the south. A dead spot to the east is still being seen.

Jared Paul is still seeking someone to take over Echolink.

Old Business

The club's application to become an LLC has been sent in.

The activation of the Peninsula Point Lighthouse is ready to go. The parking lot will serve as a camping area, with operations near the lighthouse. There was nothing new to report regarding the QSL cards. Operations will begin on Saturday, August 20.

The club gin pole still has not been located.

There was nothing new to report regarding this past Field Day.

Tom Martin will be picking up the donated generator from Bill Bertoldi when we have a place to store it.

**Old Business**

President Tom Martin reported that UPI Trucks insists that our storage van must be removed by November 1. We must find a spot for it, or sell it and store our equipment elsewhere. Contact Tom with any ideas.

Adjournment

The meeting was adjourned at 7:00 pm. (Skip Caswell/Burt Armbrust)

For the Good of the Order

Attendees reported on their recent activities.

The 50/50 drawing was won by Joe Ferris. Thirty-five dollars went to the club treasury.

Submitted by Joe Ferris

Attendees

Tom Martin, W8JWN

Scott Jarmusch, KA8TFF

Joe Ferris, KC9TQR

Debbie Grabowski, KD8VTS

Bill Grabowski, KD8VTT

Terry Moriarity, K9TRY

Skip Caswell, KE9L

Burt Armbrust, WB8EBS

Tim Miller, N8TUM

Dana Bey, W8BEY

Gary Schafer, K4FMX

Bob Magnuson Visitor

Gretchen Peters Visitor

Bruce La Liberte Visitor

Joyce Williams Visitor

News

ARRL Bulletin 29 ARLB029 From ARRL Headquarters
Newington CT August 11, 2016
To all radio amateurs

FCC "Symbol Rate" Rule Making Proposal Open for Comment at Least Until October

In a July Notice of Proposed Rule Making (NPRM) in WT Docket 16-239, the FCC proposed to revise the Amateur Service Part 97 rules in response to the ARRL's so-called "Symbol Rate" Petition for Rule Making (RM-11708), filed in late 2013. The proceeding will remain open for public comment at least for another 60 days, since the NPRM has not yet appeared in The Federal Register, thus starting the 60-day clock.

The NPRM can be found on the web in PDF format at, http://transition.fcc.gov/Daily_Releases/Daily_Business/2016/db0728/FCC-16-96A1.pdf

.ARRL had asked the FCC to change the Part 97 rules to delete the symbol rate limits in Part 97.307(f) and replace them with a maximum bandwidth for data emissions of 2.8 kHz on amateur frequencies below 29.7 MHz.

In its NPRM, the FCC proposed to eliminate the current baud rate limitations for data emissions, consistent with ARRL's Petition, but it declined to propose a bandwidth limitation for data emissions in the MF and HF bands to replace the baud rate limitations.

The official deadline to file comments will be announced when it becomes available. The ARRL plans to comment in the proceeding.

ARRL Bulletin 30 ARLB030 From ARRL Headquarters
Newington CT August 16, 2016
To all radio amateurs

ARRL Encourages Comprehensive Noise Floor Study

In anticipation of an FCC Technological Advisory Council (TAC) investigation into changes and trends to the radio spectrum noise floor to determine if there is an increasing noise problem, ARRL asserted that such a study is long overdue. The FCC Office of Engineering and Technology (OET) announced plans for the TAC study in mid-June and invited comments and answers to questions that the TAC posed concerning the methodologies for such a study. The League's comments also praised the TAC - an advisory group to the FCC - for tackling the issue and expressed the hope that the noise study might, for the first time, provide a useful, objective basis for spectrum overlays and



other future allocation decisions. ARRL allowed that while a noise floor problem exists, "The magnitude of this problem and the extent of it in the 21st century is virtually unknown."

"The TAC and the leadership in this study initiative are to be congratulated for finally undertaking what has been universally determined to be necessary for well more than 2 decades," the ARRL said. "The Commission should not have made spectrum management decisions without this noise information, and it is unfortunate that the initiative has been delayed this long."

The ARRL said that its members can be of use in gathering data for the TAC noise study, but advised that any urgency in initiating the study "be tempered by the prerequisite need to develop a standardized and valid methodology for conducting the study," in order to "obtain quantitative data regarding the noise floor in various environments and trends over time," ARRL said.

ARRL said the focus of the TAC noise "study should be an accurate determination of what noise levels exist in as wide a range of indoor and outdoor environments as possible. It should, to the extent possible, determine what types of noise are being found: Broadband, non-specific noise; broad noise spectral peaks; broadband digital noise; and noise occurring on discrete frequencies."

"We also hope that these comments will serve as a stimulus for the Commission to re-evaluate its 'hands-off' policy with respect to the most recalcitrant and unhelpful operators of incidental and unintentional radiators which are causing long-term interference problems, such as electric utilities," ARRL concluded. "The unwillingness of the Commission to issue meaningful sanctions has led to the virtual absence of any incentive to comply with the Commission's Part 15 non-interference obligations."

ARRL pointed out that the FCC had requested that the TAC study the noise floor in 1999 and propose new approaches to spectrum management based on emerging and future technologies. "The TAC concluded that it would be impossible for the Commission to engage in effective spectrum management until it 'develop[s] a more complete understanding of the current state of the radio noise environment,'" ARRL recounted, noting that TAC urged the Commission to immediately undertake a multi-part noise floor study and cautioned it against implementing new spectrum management techniques or initiatives without first concluding extensive studies.

"Yet, 16 years later, no such study has been conducted," ARRL said. "Now, and for the past several decades, new noise sources are being developed and have been developed and the proliferation of electronic devices continues as fast as the technology and the regulatory processes will allow." While many individual sources of RF noise may be consistent with FCC rules, in some cases they may negatively impact the overall electromagnetic noise environment, ARRL said.

"Because the Commission's resources are woefully inadequate to address RF noise through widespread enforcement of Part 15 and Part 18 rules governing RF emitters after the devices are deployed, the only reasonable means of dealing with them is to enact and enforce, ex ante, appropriate rules for RF emitters that are based on actual knowledge of the noise floor and trends over time," ARRL said. "The growing number of interference complaints indicates that any increase in noise levels will result in harmful interference, so these rules may need to require a decrease in the permitted limits for emission to balance the aggregate noise potential of a growing number of noise emitting devices."

The League's comments include a bibliography, "Articles Relating to the Description, Impact and Study of Man-Made Noise," compiled by ARRL Lab Manager Ed Hare, W1RFI.

Amateur Radio Parity Act

09/11/2016

The US House of Representatives will consider the Amateur Radio Parity Act, H.R. 1301, under a suspension of the rules on Monday, September 12. A suspension of the rules is a legislative procedure used to quickly pass non-controversial bills.

Speaking at the New England Division Convention on September 10 in Massachusetts, ARRL CEO Tom Gallagher, NY2RF, expressed confidence that the bill would pass the House, but said the legislation would face additional hurdles in the US Senate.

In July, an amended version of the bill received a unanimous favorable report from members of the U.S. House Energy and Commerce Committee.

Before reporting the bill out of committee, the panel first voted to accept the amended language "in the nature of a substitute." Rep Greg Walden, W7EQI (R-OR), who chairs the Energy and Commerce Committee's Subcommittee on Communications and Technology, said the substitute bill represented "a good balance" following months of meetings, hard work, and compromise, and he recommended the measure to his colleagues.

"The amendment guarantees that even in deed-restricted communities, Amateur Radio operators are able to use an effective outdoor antenna," Walden said. "Without an effective antenna Amateur Radio operators are severely limited, so this amendment ensures that amateurs are free to pursue their passion wherever they live."

In June, the ARRL and the Community Associations Institute (CAI) — the national association of homeowners associations (HOAs) — announced that they had reached consensus on the substitute language for H.R. 1301 in an effort to move the bill through committee and to overcome objections to the companion US Senate bill, S. 1685.

For more information on H.R. 1301, visit the ARRL website.

Please also see Page 9 of October QST: Second Century by Tom Gallagher, NY2RF

The HR1301 Push: How To Be Heard

Tom's article will detail the next steps we will be taking once HR 1301 passes the house.

Stay tuned, folks, we need to be ready to make history!

73,
Larry, WB8R

ARLB032 W1AW 2016 Spring/Summer Operating Schedule

ARRL Bulletin 11 ARLB011
 From ARRL Headquarters
 Newington CT March 14, 2016
 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	Mon, Wed, Fri
0200 " "	CWs	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 147.555
 DIGITAL: - 3.5975 7.095 14.095 18.1025 21.095
 28.095 147.555
 VOICE: 1.855 3.990 7.290 14.290 18.160 21.390
 28.590 147.555

Notes:

CWs = Morse Code practice (slow) = 5, 7.5, 10, 13 and 15 WPM
 CWf = Morse Code practice (fast) = 35, 30, 25, 20, 15, 13 and 10 WPM
 CWb = Morse Code Bulletins = 18 WPM

CW frequencies include code practices, Qualifying Runs and CW bulletins.

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

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

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

The complete W1AW Operating Schedule may be found on page 103 in the April 2016 issue of QST or on the web at, <http://www.arrl.org/w1aw-operating-schedule>.

ARRL MICHIGAN SECTION NEWS

From July 15
Greetings to the hams of Michigan

Summer is in full swing now and while it seems kind of hard to believe, it is half over. Make plans to travel, whether it is a long distance trip or a series of shorter trips. Day trips are not particularly expensive and there are a lot of things to see in Michigan that is within range of a day trip. This is an excellent opportunity to travel the back roads and see what is there. Explore parks and small towns and new places to eat.

While you are out and about, don't forget to set your mobile radio to the National Calling Frequency of 146.52 MHz. Don't forget to make some noise on that frequency because if everyone is listening, that means no one is talking. Be that person that periodically identifies as says they are listening – you never know what contact(s) you might scrounge up!

Midland Students Launch and Recover a Pair of Balloons

From the Midland Daily News (Midland, Michigan), an article showcasing the launching of a pair of weather balloons by the Northeast Middle School's Science Club and the Midland High School Electronics and Wireless Communication Club, assisted by members of their sponsors, the Midland ARC. The url is <http://www.ourmidland.com/news/article/Soaring-above-Midland-County-Clubs-launch-8356626.php#photo-10526328>.

The Clubs tracked the balloons primarily via APRS though both had a 2 meter beacon aboard to enable RDFing as a backup tracking method if the APRS gear went silent, as happened last year. Thanks to our Section PIC, Pat Mullet, KC8RTW for the information.

Section Staff Travel Plans

Jul 16, 2016	GMARC July Trunk Swap, Shelby Twp, MI
Jul 16, 2016	Lowell Youth Club, Lowell, MI – WB8R
Jul 30, 2016	CMARC Hamfest, Lansing, MI – WB8R
Aug 6, 2016	UP Hamfest, Escanaba, MI – WB8R
Aug 7, 2016	Seaway Swap, Port Huron, MI

Aug 12, 2016	CMARC Meeting Lansing, MI – WB8R
Aug 20, 2016	Spark in the Park, Wyoming, MI– WB8R
Sep10, 2016	GMARC Sep. Trunk Swap, Shelby Twp, MI
Sep 18, 2016	Adrian Hamfest, Adrian, MI – WB8R (Note: NewLocation)
Sep 24, 2016	GRAhamfest, Wyoming, MI – WB8R

Hospitality Acknowledgements

Thanks to the following groups for their fine hospitality on recent visits:

Jun 18, 2016	Midland Hamfest, Midland MI
Jun 19, 2016	Monroe Hamfest, Monroe, MI
Jul 8-9, 2016	MI Section Family Outing, Hale, MI

MI Section Outing

The 18th annual Michigan Section Family Outing (July 8-9, 2016) was held at the Woodlands Conference Center and Campgrounds located at 318 S. Sage Lake Road, Hale, MI 48739. The turnout was very good with participants from all corners of the state, including the Upper Peninsula. There were approximately 50 in attendance throughout the day on Saturday.

One of the best things about the gathering was the opportunity for hams to network with others from other parts of the state. While some of the circumstances that EC's and their personnel deal with in their local areas are unique, by far most circumstances are common across the entire state. Sharing experiences and asking questions is an excellent way to learn new solutions to common problems. Throughout the day on Saturday we had many presentations and plenty of hands on opportunities with various technologies. Many thanks go to those that presented on their various areas of expertise.

The 2017 Section Outing is scheduled for July 7 & 8. Put it on your calendar now.

FCC License Processing Delays Resolved



It's taken a couple of weeks, but the FCC has resolved a computer programming problem that had affected its ability to accept and process batch-filed Amateur Radio applications, resulting in a backlog for the Volunteer Examiner Coordinator (VEC) and others taking advantage of automated processing. The FCC information technology staff had been attempting to fix the glitch affecting the Universal Licensing System (ULS) the Electronic Batch Filing (EBF) system, since it first cropped up on June 28. At first, the problem affected the processing of all Amateur Radio and commercial license applications, said ARRL VEC Manager Maria Somma, AB1FM, who alerted the FCC IT Department.

By June 30, it appeared that the FCC had corrected the broader problem, but the EBF remained unable to process ARRL VEC's automated, batch-filed applications and exam sessions. VECs that were manually logging in to upload their files were unaffected. ARRL and FCC IT staffers put their heads together to get to the bottom of the blockage.

Amateur Radio Parity Act

An amended version of the Amateur Radio Parity Act (HR 1301) received a unanimous favorable report on July 13 from members of the U.S. House Energy and Commerce Committee. The bill now will go to the full House for consideration. Before reporting the bill out of committee, the panel first voted to accept the amended language "in the nature of a substitute." Rep Greg Walden, W7EQI (R-OR), who chairs the Energy and Commerce Committee's Subcommittee on Communications and Technology, said the substitute bill represented "a good balance" following months of meetings, hard work, and compromise, and he recommended the measure to his colleagues.

"The amendment guarantees that even in deed-restricted communities, Amateur Radio operators are able to use an effective outdoor antenna," Walden said. "Without an effective antenna Amateur Radio operators are severely limited, so this amendment ensures that amateurs are free to pursue their passion wherever they live."

At the same time, he continued, the measure protects the rights of those "who have chosen to live in deed-

restricted communities and to set their own aesthetic and other rules."

In early June, the ARRL and the Community Associations Institute (CAI) the national association of homeowners associations (HOAs) — announced that they had reached consensus on substitute language for H.R. 1301 in an effort to move it through committee and to overcome objections to the companion US Senate bill, (S 1685) the offices of US Representatives Adam Kinzinger (R-IL), the bill's sponsor, Anna Eshoo (D-CA), and Walden mediated and offered assistance.

Stay tuned as success is hopefully just around the corner!

Michigan Section Traffic/ARPSC Nets (All times Local)

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

MIARPSC – MI Amateur Radio Public Service Corps 3.932 1700 Sunday

QMN – The Michigan Net 3.563 1830 and 2200 Daily

MITN – MI Traffic Net 3.952 1900 Daily

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

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

D8EN - District 8 Emergency Net 3.909 Wed 2100

GLETN – Great Lakes Emergency and Traffic Net 3.932 2000 Daily

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

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

SEMTN – SE MI Traffic Net 146.76- 2215 Daily

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

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

Come join us on our traffic and public service nets.

Michigan ARPSC Activities

SARs (Station Activity Reports) for June, 2016: WB8WKQ, 371 WB9JSR 355, K8ED 165, K8RDN, 154 WB8TQZ, 63 WD8MWD, 40 WD8USA 36, N8OSL, 31 WB8R, 12 KC8NFN, 10 WB8RCR, 10 KC8BW, 8 N8UN, 5 KD8LSM, 2

Total SAR reported: 1262

ARPSC: \$203,007

NTS: \$46, 664

BPL for June, 2016: None

Total Dollar Value June 2016: \$250,993

PSHRs (Public Service Honor Roll) for June, 2016: KC8YVF 230, WB8R 195, WB8RCR195, K8RDN 175, N8OSL 171, WD8MWD 170, WB9JSR 160, WD8USA 121, WB8WKQ 120, WB8TQZ 110, K8ED 90, KC8NFN 50, KD8LSM 44, KE8BYC 19.

A hearty thank you goes 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.

Net traffic for June, 2016:

Our ARPSC and NTS programs are an integral part of AuxComm, which in turn is an integral part of the Michigan Homeland Security Division.

The Michigan Net 130, Michigan Traffic Net 90, Michigan Amateur Communications System 59, Upper Peninsula Net 45, Great Lakes Emergency and Traffic Net 42, Southeastern Michigan Traffic Net 41, Michigan Digital Traffic Net 16, Genesee County ARPSC Traffic and Training Net 3, Northern Lower Eastern Upper Peninsula Net 2, District 3 ARPSC Net 2, Bay Area Regional Traffic System Red Cross Net of Greater Grand Rapids 1, Michigan ARES D-Star Net, Branch County Emergency Net, Michigan Amateur Radio Public Service Corps, District 8 Emergency Net, District 5 Hospital Net, Luce County ARES Net.

73 until next month,

Larry, WB8R

Total net traffic reported: 432

Volunteer Hours Dollar Value:

Dales Tales

Greetings to the Hams of Michigan:

I hope everyone has been able to take advantage of the opportunities available for travel and recreation around our great state this summer. Your editor recently spent 5 days on the road running amuck in the Upper Peninsula without any adult supervision and I have to report that we had a great time.

Dayton Hamvention Moves to Greene County Fairgrounds in Xenia, Oh for 2017 and beyond.

I am certain that the Dayton Hamvention move to the Green County Fairgrounds is not fresh news to any of us. Nor do I think anyone was really surprised by the actions taken. How will it all work out? We will have to wait and see. I do ask that we all keep an open mind and have faith in the folks that have brought us this event for all of these years.

ARRL U-Tube Channel

I was recently advised (thanks, Dale) of a U-Tube presentation on the ARRL U-Tube Channel that is an ARRL Headquarters webinar training session on local, section, and state level Memorandums of Understanding for ARES. At the Michigan Section Outing in July, there was a question regarding MOU's and this webinar explains the process well.

The training webinar, aimed at ARES Emergency Coordinators, District Emergency Coordinators and Section Emergency Coordinators, took place on May 25, 2016. This webinar is hosted by ARRL Emergency Preparedness Manager Mike Corey, KI1U, Regulatory Information Manager Dan Henderson, N1ND, and ARRL General Counsel Chris Imlay, W3KD.

You can locate the webinar here: <https://www.youtube.com/user/ARRLHQ>.

From this point, you can search for "MOU".

I found this to be an excellent source of information to help each organization to understand what a MOU is and how they are assembled and deployed. It is approximate-

ly an hour long and well worth the time invested. While you are rummaging around the multitudes of presentations there, you might take a look at one that I found to be particularly interesting: ARRL Webinar: Contesting as Training for Public Service. An interesting concept!

Section Staff Travel Plans

Aug 20, 2016	Spark in the Park, Wyoming, MI – WB8R
Sep 18, 2016	Adrian Hamfest, Adrian, MI – WB8R
Sep 24, 2016	GRAhamfest, Wyoming, MI – WB8R
Oct 15, 2016	Muskegon Swap, Muskegon, MI – WB8R
Oct 16, 2016	Kalamazoo Hamfest, Kalamazoo, MI – WB8R
Oct 30, 2016	USECA Swap & Shop, Madison Heights, MI – WB8R
Dec 4, 2016	L'Anse Creuse Swap, Madison Heights, MI – WB8R

Travel Notes: Try as I might, I simply cannot attend all of the hamfests across the state. Often the reason for not attending is one of logistics and timing. I find it difficult to be in two places at the same time. A complete listing of all hamfests (Michigan and beyond) is readily available on the ARRL website.

Hospitality Acknowledgements

Thanks to the following groups for their fine hospitality on recent visits:

Jul 16, 2016	Lowell Youth Club, Lowell, MI
Jul 30, 2016	CMARC Hamfest, Lansing, MI
Aug 6, 2016	UP Hamfest, Escanaba, MI
Aug 12, 2016	CMARC Meeting Lansing, MI

Amateur Radio Parity Act -

House Committee Votes Amateur Radio Parity Act Out of Committee.

The full House Energy and Commerce Committee at a markup session on July 13 unanimously adopted a substitute bill in the form of an amendment to the Amateur Radio Parity Act (H.R. 1301). The next step for the bill as amended is for consideration by the full House. There is

no current timetable for that action. Stay tuned for information as it develops.

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

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

Michigan ARPSC Activities

SARs (Station Activity Reports) for July, 2016: WB8WKQ 234, K8ED 226, K8RDN 86, WD8USA 40, WD8MWD 32, N8OSL 19, WB8RCR 13, KC8NFN 6, WB8R 6, N8UN 5.

Total SAR reported: 667

BPL for July, 2016: None

PSHRs for July, 2016: KC8QWH 405, WB8RCR 363, KD8HPG 270, N8OSL 224, WB8R 221, WD8MWD 157, K8RDN 150, WD8USA 140, WB8WKQ 120, KC8YVF 95, K8ED 90, KE8BYC 79, NE8B 60, KC8NFN 46, KD8LSM 35.

Net traffic for July, 2016:

The Michigan Net 111, Michigan Amateur Communications System 65, Michigan Traffic Net 53, Upper Peninsula Net 44, Great Lakes Emergency and Traffic Net 34, Michigan Digital Traffic Net 34, Southeastern Michigan Traffic Net 25, Saginaw County ARES Net 5, Michigan VHF Traffic Net 5, Northern Lower Eastern Upper Peninsula Net 4, District 3 ARPSC Net 4, Genesee County ARPSC Traffic and Training Net 3, Bay Area Regional Traffic System 2, Branch County Emergency Net, District 8 Digital Emergency Net, District 5 Hospital Net, Red Cross Net of Greater Grand Rapids, Michigan ARES D-Star net, Michigan Amateur Radio Public Service Corps, Luce County ARES Net, District 8 Emergency Net.

Total net traffic reported: 389

Volunteer Hours Dollar Value:

ARPSC: \$199,026

NTS: \$35,960

Total Dollar Value June 2016: \$234,986

A hearty thank you goes 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 Homeland Security Division.

73 until next month,

Larry, WB8R

ARRL PROPAGATION BULLETIN

QST de W1AW
 Propagation Forecast Bulletin 37
 ARLP037 From Tad Cook, K7RA Seattle, WA
 September 9, 2016 To all radio amateurs

SB PROP ARL ARLP037
 ARLP037 Propagation de K7RA

Compared to the last reporting week, this week (September 1-7) average daily sunspot numbers were down, solar flux increased, and geomagnetic indices were much more active.

Average daily sunspot number declined from 60.1 to 46.4, while average solar flux went from 87.9 to 95.1. Average planetary A index increased from 8 to 26.6, while average mid-latitude A index rose from 6.9 to 18.1.

The daily planetary A index on September 1-4 was 36, 39, 40 and 28. It looks like an echo of the solar wind which caused this activity is expected on September 28 through October 1, when the predicted planetary A index is 35, 38, 40 and 25.

Predicted solar flux is 95 on September 9-10, then 92, 90, and 85 on September 11-13, 80 on September 14-16, 108 on September 17-19, then 110, 105 and 110 on September 20-22, 112 on September 23-24, 108 on September 25, 105 on September 26-27, 100 on September 28, 95 on September 29 through October 1, 98 on October 2-4, 95 on October 5-6, 90 on October 7-8, 95 on October 9, 100 on October 10-11, 105 on October 12, and 108 on October 13-16. After October 16 flux values meander from 105 to 112.

On September 5 predicted solar flux values for September 13 to October 21 got a big boost, a predicted increase ranging from 18-30 points from the September 4 prediction.

Predicted planetary A index is 15 on September 9, 8 on September 10-11, 10 on September 12, 8 on September 13-15, 5 on September 15-16, then 8, 5, 15, 12 and 8 on September 17-21, 5 on September 22-25, then 12, 8, 35, 38 and 40 on September 26-30, then 25, 20 and

12 on October 1-3, 10 on October 4-5, 5 on October 6-9, then 10, 8, 5, 5, 8, 5, 15, 12 and 8 on October 10-18, and 5 on October 19 and beyond.

Petr Kolman, OK1MGW of the Czech Propagation Interest Group predicts the geomagnetic field will be:

Quiet on September 23-24

Mostly quiet on September 9-11, 14-16, 18, 22, October 5
 Quiet to unsettled on September 12, 17, 21, 25, 27, October 3-4
 Quiet to active on September 13, 19-20, 26, 28-30, October 1-2
 Active to disturbed on September (29-30)

Increased solar wind from coronal holes is expected on September 12-13, 17, 19-21, 25-26, 28-30, October 1-2

Remarks: - Parenthesis means lower probability of activity enhancement.

Propagation expert Carl Luetzelschwab, K9LA gave a talk (via the Internet) to the World Wide Radio Operator's Foundation on August 23, as reported this week on the ARRL web site:

<http://bit.ly/2c3yMbZ>

Also note the link in the article to Carl's presentation to the club, "Solar Topics - Where We're Headed." See/hear it at <http://bit.ly/2ceGTiE>.

Carl notes that some forecasters of space weather have predicted smaller solar cycles in the future. But personally, I would not be so sure (I'm always searching for something to be positive about, when it relates to future solar activity).

Check out this presentation by Douglas Biesecker, Chair of the Solar Cycle 24 Prediction Panel, <http://bit.ly/2cz5zkD>, which does not predict low solar activity extending decades into the future.

Note also that Carl predicts a future Cycle 25 at least as strong as Cycle 24.

Carl also mentioned a number I had not heard before. He notes that many solar cycles in the past have been equivalent to Cycle 19, the biggest sunspot cycle experienced by anyone still alive today. He projects back over the past 11,000 years, and with the number he gives, the next grand maximum after Cycle 19 in the late 1950s might be around year 2537 AD. Note that Carl did not predict this. I am just trying to extrapolate from the numbers he mentioned, to get some very rough idea of how uncommon Cycle 19 was.

His numbers show that over the past 11,000 years, 19 notable grand maximums - including Cycle 19 and the cycles around it - and 27 notable grand minimums were recorded. "We're likely to have more of both grand maximums and grand minimums in the future," he predicted. But arithmetically estimated from 19 maximums in 11,000 years, that puts the next big one (after Cycle 19) at 521 years from now, maybe in Cycle 71.

Finally, we received a note from Dick Ferry, K2KA of Westford, Massachusetts concerning 6-meter auroral propagation on September 3:

"Some notes of last night's brief AU opening.

"Got up at 1230am (0430Z) Sep 3, saw AU activity on 6M.

"I heard KL7NO on 50.1056 MHz. He was very weak, barely copiable but I did hear him. Didn't call him as he was only audible for a few seconds.

"That would have been awesome!

"Did call CQ for about 5 min.

"KOKP/B, N8PUM/B and VE4VHF/B were loud. But no humans on the band.

The beacons were gone in about 10 min.

"73, Dick K2KA (formerly AB1A)."

Thanks Dick!

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

For more information concerning radio propagation, see the ARRL Technical Information Service web page at <http://arrl.org/propagation-of-rf-signals>. For an explanation of the numbers used in this bulletin, see <http://arrl.org/the-sun-the-earth-the-ionosphere>. An archive of past propagation bulletins is at <http://arrl.org/w1aw-bulletins-archive-propagation>. More good information and tutorials on propagation are at <http://k9la.us/>.

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 September 1 through 7 were 66, 50, 46, 59, 22, 32, and 50, with a mean of 46.4. 10.7 cm flux was 95.2, 94.6, 99, 97.4, 93.8, 92.4, and 93, with a mean of 95.1. Estimated planetary A indices were 36, 39, 40, 28, 17, 14, and 12, with a mean of 26.6. Estimated mid-latitude A indices were 29, 24, 21, 20, 13, 12, and 8, with a mean of 18.1.

ARRL DX NEWS

DX Bulletin 37 ARLD037

From ARRL Headquarters

Newington CT September 8, 2016

To all radio amateurs

This week's bulletin was made possible with information provided by N4RG, QRZ DX, the OPDX Bulletin, 425 DX News, The Daily DX, DXNL, Contest Corral from QST and the ARRL Contest Calendar and WA7BNM web sites. Thanks to all.

NIGER, 5U. Yves, F5PRU is QRV as 5U7RK for the next few months. Activity is on 80 to 10 meters using CW and SSB. QSL to home call.

SAMOA, 5W. Bob, VK2BOB will be QRV as 5W0BOB from Upolu Island, IOTA OC-097, from September 10 to 17. Activity will be holiday style on 40 and 20 meters using SSB. QSL direct to home call.

RWANDA, 9X. Jim, KB1ZSQ is QRV as 9X0JW from Kigali until December 2017. Activity is in his spare time on 80 to 10 meters using SSB and various digital modes. QSL via operator's instructions.

TONGA, A3. Joshua, VA7YM is QRV as A31YM from Haapai Island, IOTA OC-169, until September 13, and then from Eua Island, IOTA OC-049, from September 13 to 21. Activity is on the HF bands. QSL direct to EA5GL.

BHUTAN, A5. Zorro, JH1AJT, Champ, E21EIC and Franz, DJ9ZB are QRV as A5A until September 17 while supporting the launch of the Paralympic Committee with the Bhutan Olympic Committee. Activity is with two stations on 80 to 10 meters using CW, SSB and RTTY. QSL via JH1AJT.

SOUTH COOK ISLANDS, E5. Nob, JF2MBF and Ken, JA2FJP are QRV as E51Q from Rarotonga Island, IOTA OC-013, until September 19. Activity is on 160 to 10 meters using CW, SSB and RTTY. QSL direct to JA2FBY.

ST. PIERRE ET MIQUELON, FP. Freddy, F4HEC, Nicolas, F1RAF, Michel, FK8IK and Laurent, F5TMJ will be QRV as TO5FP from September 10 to 20. Activity will be on 80 to 10 meters using CW, SSB and RTTY. QSL via operators' instructions.

REUNION ISLAND, FR. Jean, F6BVV is QRV as FR/F6BVV until September 23. Activity is on 20 and 15 meters using CW in his spare time. QSL to home call.

MINAMI TORISHIMA, JD1. Kakutani is QRV as JD1YAA from the Japan Meteorological Agency Ham Club Station located on Marcus Island until mid November. Activity is mainly on 17 and 12 meters using SSB around 2200z and 0300z, respectively. QSL via bureau.

SVALBARD, JW. Roger, SM7RYR is QRV as JW/SM7RYR from Spitsbergen Island, IOTA EU-026, until September 12. Activity is on 20 meters using CW and QRP power. QSL via operator's instructions.

MARIANA ISLANDS, KH0. Jussi, OH6RX and Esa, OH7WV are QRV as AH0K from Saipan Island, IOTA OC-086, until September 11. QSL via OH6GDX.

LITHUANIA, LY. Special event stations LY780A and LY780QT are QRV during September to celebrate the 780th anniversary of the city of Siauliai. QSL LY780A via LY5T and LY780QT via LY2QT.

MARKET REEF, OJ0. Henri, OH3JR will be QRV as OJ0JR from September 10 to 17. QSL to home call.

NETHERLANDS, PA. Marcel, PD5MVH is QRV as PD5MVH/p from Ameland Island, IOTA EU-038, until September 17. Activity is on 40, 20 and 10 meters using CW, SSB and JT65. He will be QRV as PD38EU in the Worked All Europe SSB DX contest. QSL both calls to home call.

DODECANESE, SV5. Claudio, HB9OAU will be QRV as SV5/HB9OAU from Karpatos Island, IOTA EU-001, from September 10 to 22. Activity will be holiday style on 40 to 10 meters using SSB. QSL to home call.

CRETE, SV9. Laurent, F5MUX is QRV as SV9/F5MUX until September 14. QSL to home call.

PALAU, T8. Jiro, 7K1HLH and Kenji, JH1BGH will be QRV as T88WH and T88WI, respectively, from Koror Island, IOTA OC-009, from September 11 to 15. Activity will be on the HF bands. QSL direct to home calls.

EAST KIRIBATI, T32. Ken, KH6QJ is QRV as T32ZA until September 15. Activity is on 80 to 10 meters using SSB and RTTY. QSL to home call.

ST. KITTS AND NEVIS, V4. John, W5JON will be QRV as V47JA from Calypso Bay, IOTA NA-104, from September 12 to 29. Activity will be on 160 to 6 meters, including 60 meters, using SSB. QSL direct to home call.

ASCENSION ISLAND, ZD8. Herb, N4RG will be QRV as ZD8RG from September 11 to 29. Activity will be on 160 to 10 meters using CW and SSB in his spare time. QSL to home call.

THIS WEEKEND ON THE RADIO. The ARRL September VHF Contest, North American CW Sprint, NCCC RTTY Sprint, NCCC CW Sprint, FOC CW QSO Party, Worked All Europe SSB DX Contest, Kulikovo Polye CW Contest, SARL Field Day Contest, SKCC Weekend CW Sprintathon, Russian Cup Digital Contest, Ohio State Parks on the Air and the Classic CW Exchange are all on tap for this upcoming weekend.

The CWops Mini-CWT CW Test, RSGB 80-meter Club SSB Sprint and Phone Fray are scheduled for September 14.

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

Please see September QST, page 92, and the ARRL and WA7BNM Contest Web sites for details.



CLASSIFIED

Space Available to push your stuff

UP AREA HAM FEST INFORMATION

**THIS
Space
Reserved
For
You**

LINKS AND STUFF

Under re-construction. Watch for the orange barrels

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

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

Area Repeaters

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

ARRL Affiliated Club Area Nets

UP Net 3921khz
Daily 5pm EST
Sunday Noon EST

UP CW NET 3590khz
Sunday 7pm EST

160 Net 1895khz
Everynight 0100UTC
Dailey 0600UTC

Midcars 7258khz
Daily 0730am EST
0200pm EST

Outhcars Node 9614
Saturday 0900am EST

UP Echolink Node 9617
Sunday 8pm EST

Delta County ARES
147.150
Sunday 7pm EST

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

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

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

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

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

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

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

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

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

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

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

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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.

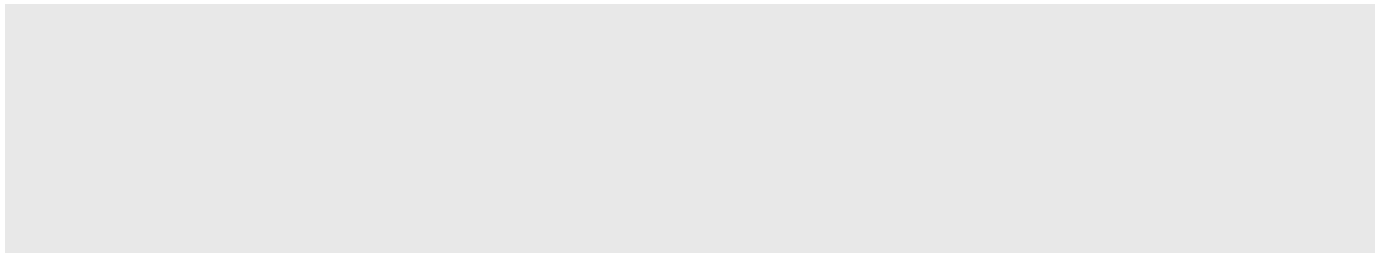
I will be thankful if and when I do make a contact.

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	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	efry@centrylink.net
KG8NK	GEMBOLIS	LOUIS	ISHPEMING	906-485-5442	lgembolis@chartermi.net
KD8VTS	GRABOWSKI	DEBRA	CRYSTAL FALLS	906-284-2450	kd8vts@gmail.com
KD8VTT	GRABOWSKI	WILLIAM	CRYSTAL FALLS		
KC8TH	HEYBOER	TOM	IRON MOUNTAIN	906-779-0481	heyboer.tom@gmail.com
N8ATS	HOLMES	SAM	PEMBINE	906-322-8507	chopsam@centrylink.com
KA8TFF	JARMUSCH	SCOTT	IRON MOUNTAIN		
KB9EMU	KNUTSON	WILLIAM	FENCE	715-336-2250	dknutson54@gmail.com
KB8ETK	KOMBLEVICZ	JOSEPH	IRON MOUNTAIN	906-774-4094	kombleviczj@charter.net
W8JWN	MARTIN	THOMAS	IRON MOUNTAIN	906-774-5463	tmartin@chartermi.net
WA8FXQ	MEYERS	BOB	VULCAN	906-396-0119	meyersb@uplogon.com
KC8LRP	MEYERS	MARGE	VULCAN	906-396-8913	mgmeyer@uplogon.com
N8TUM	MILLER	TIMOTHY	FLORENCE	715-696-6517	timmiller.up@gmail.com
K9TRY	MORIARITY	TERRY	NIAGARA	715-251-1670	kb9zer@yahoo.com
ND8M	PAUL	JARED	NORWAY	989-660-9535	jaredpaul@me.com
KD8SZA	PAUL	MICHELLE	NORWAY		
KC9NFT	PERRON	BARRY	FLORENCE	715-696-6175	bperron2@netzero.com
KC8JRI	REED	GORDY	IRON MOUNTAIN	906-779-1254	gordyreed@charter.net
K8ABS	RIVERSIDE	JIM	IRON MOUNTAIN	906-458-0773	jriverside@charter.net
W8IFI	RYE	JIM	CRYSTAL FALLS	906-875-3582	jimrye@up.net
KG9Y	THOMAS	DAVE	NIAGARA	715-251-1393	ke9y@arrl.net





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.