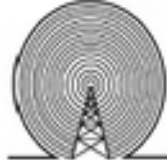


# The Ham Arundel News



Providing Fellowship and Community Service through Amateur Radio Since 1951

September 2016

38<sup>th</sup> Year of Publication



## The Prez Sez...

As I said at the last meeting, it's that time of year when we put together a nominating committee to prepare a slate of proposed officers and directors for next year.

I know it may be hard to believe, but I have yet to get any volunteers. That must mean you all want to run for office!

As you may now, the current board has served for two years, with some of the members being on the board for longer than that. I've served five years in various positions including president for the last two years. I'm planning on taking a break and I'm not the only one. A couple of other officers will be focusing on other things next year as well. Additionally, one of our directors (you know who you are!) is abandoning us for the wilds of Maine, making getting to the board meetings somewhat difficult.

This is a great opportunity to get some new thoughts and ideas on the board and see where that might steer us in the coming year or two. My push over that last two years tended toward infrastructure projects, the next president and board might focus on something else. Just like with the hobby itself, there are lots of things a club can focus on and

many different ways to go about them.

For the last several years, we've had a difficult time finding folks willing to take on the jobs of president and vice-president. Folks, I'm here to tell you it's not that hard. Of course it takes a bit of time, there's that board meeting each month and other miscellaneous tasks that seem to crop up, but it's not something any one of our members couldn't handle. Unlike our more fortunate members, I'm not yet retired so I have to fit these tasks in between work days and travel. But it's not so much that it doesn't easily fit, and with the support of the other officers and directors, it all gets done.

I would ask each of you, both new members and old, to consider running for a position on the board. There will be some continuity as I know some of the folks are willing to stay on for another year. Those of us taking a break would be more than happy to spend some time with the new board members, if asked, to get them squared away. There's nothing to be apprehensive about, just jump in and run.







in clubhouse for this contest. Still we could have used more help on Sunday, Jim (N3ADF) was getting a little hoarse by mid afternoon.

Special thanks to N3ADF for leading a group of volunteers including W2PAW, WR3Q, N3JLM, AE3D and Eric KC3GDV through a series of work parties to get the Club Shack ready for the event.

Looking over the scores listed above, you will see about half of the MDC Sections were worked. We simply did not hear them on the air. Perhaps next year we will make an effort to elicit more support from Maryland clubs in the missing counties.

AA

## Maryland QSO Party Story

During the 2016 Maryland QSO party Mark Bova, W2PAW was in contact with David Hewitt, WW9S. David was previously licensed as N3BXY. He said that he was a member of the AARC 50 years ago. David now resides in Illinois, according to QRZ.com. Mark will follow up on this QSO and send David a copy of our AARC QSL card.

Mark also remarked that band conditions were unbelievable this year, especially considering where we are on the sunspot cycle. 20 meters was hot, hot, hot, and 6 meters opened up on Sunday too. If you missed it, you missed a lot of fun.

73  
Keith, AE3D

AA

## New Trustee for W3VPR

The AARC would like to thank Giff Hammar, K1GAH for the work he done in the roll of Trustee for W3VPR. We wish him and his family the very best on their relocation to the beautiful state of Maine.

Dick Maio, WW3R is now listed in the FCC ULS system as Trustee for W3VPR, Now that Dick is approved he will, establish the file for W3VPR with Logbook of the World and eQSL Both are free.

We have created an electronic logbook using N3FJP's Amateur Contact Log software on the club's server. With Field Day from 2015 and 2016, the Maryland QSO Party 2016, and a few more additions of recent contacts, our log now contains over 2200 entries. Once we have LotW and eQSL working, we will be uploading all these contacts to both services.

73  
Keith, AE3D

AA

## Did You Know?

By AA3RR

The Radio Act of 1912 (37 Stat. 302) is the United States federal law that mandated that all radio stations in the United States be licensed by the federal government, as well as mandating that seagoing vessels continuously monitor distress frequencies. The original bill was initiated during the investigations following the sinking of the Titanic. The act set a precedent for international and federal legislation of wireless communications. It was

followed by the Radio Act of 1927.

The 'commerce' clause of the U. S. Constitution assigned to Congress the task of regulating interstate and foreign commerce. Early radio stations served as basic communication systems, transmitters of messages that were meant to facilitate commerce and protect the health and well-being of U. S. citizens. As a result, responsibility for implementing and enforcing the Act was the responsibility of the United States Secretary of Commerce and Labor. The U.S. Department of Commerce and Labor was empowered to impose fines of not more than \$500 and to revoke the licenses of those radio operators who violated the restrictions laid down by the Act. Furthermore, the government could seize the equipment of the offending station, as well as suspending the radio license of the operator for one year.

In 1913 the Department of Commerce published instructions regarding the use of call signs.

- By international agreement the United States was allowed to issue call signs within the following blocks of letters:

KDA to KZZ  
NAA-NZZ  
WAA-WZZ

- All combinations beginning with the letter N are reserved for Government stations and in addition, the combinations from WUA to WVZ and WXA to WZZ are reserved for Stations of the Army of the United States.
- The combinations KDA to KZZ, with a few exceptions, are reserved for ship and coast stations on the Atlantic coast and Gulf of Mexico.
- The combinations beginning with W (except WUA to WVZ and WXA to WZZ as already indicated) are reserved, with a few exceptions, for ship and coast stations on the Pacific coast and on the Great Lakes.

In addition, the Department of Commerce created districts for managing radio stations across the country:

District	Headquarters	Area
1	Boston, MA	Maine, New Hampshire, Vermont., Massachusetts, Rhode Island, Connecticut
2	New York, NY	New York (county of New York, Staten Island, Long Island and counties on the Hudson River to and including Albany, Rensselaer, and Schenectady), and New Jersey (counties of Bergen, Passaic, Essex, Union, Middlesex, Monmouth, Hudson, and Ocean)

3	Baltimore, MD	New Jersey (all counties not included in second district), Pennsylvania (counties of Philadelphia, Delaware, all counties south of the Blue Mountains, and Franklin County), Delaware, Maryland, Virginia, District of Columbia
4	Savannah, CA	North Carolina, South Carolina, Georgia, Florida, Porto Rico.
5	New Orleans, LA	Alabama, Mississippi, Louisiana, Texas, Tennessee, Oklahoma, New Mexico, Arkansas
6	San Francisco, CA	California, Hawaii, Nevada, Utah, Arizona
7	Seattle, WA	Oregon, Washington, Alaska, Idaho, Montana, Wyoming
8	Cleveland, OH	New York (all counties not included in second district), Pennsylvania (all counties not included in third district), West Virginia, Ohio, Michigan (Lower Peninsula).
9	Chicago, IL	Indiana, Illinois, Wisconsin, Michigan (Upper Peninsula), Minnesota, Kentucky, Missouri, Kansas, Colorado, Iowa, Nebraska, South Dakota, North Dakota

The call letters for amateur stations in the United States were awarded by radio inspectors, each for his own district, according to the following system:

- The call consists of three items:
  - Number of the radio district (1-9) as described above
  - Two letters of the alphabet.
  - The first letter may not be X, Y, or Z.
- This results in 598 possible call signs for each district
- Thus, the call of all stations in New England (which comprises the first district) will be the figure "one" in Continental Morse, followed by two letters (1RF); in California (in the sixth district) the figure "six" followed by two letter (HF); in South Carolina the figure "four" followed by two letters (4MQ); in Missouri the figure "nine" followed by two letters (9PZ), etc.

- If the entire 598 calls have been exhausted, radio inspectors were authorized to issue additional calls, consisting of the figure of the district followed by three letters (1FDQ, 6TNS, 4OMG, 9RLR, etc.).
- The following combinations must be excluded:
  - The combination SOS, and PRB,
  - All three-letter combinations beginning with QR or QS,
  - All combinations involving the repetition of the same letter three times,
  - Three-letter combinations beginning with K, N, W, X, Y, Z. and
  - Other combinations, which for various reasons, international, national, local, or individual, may be objectionable.
- With such exclusions, over 10,000 calls will remain for each district.

**Now you know.**

Next up: The rules from 1913 regulating radio communications including amateur radio, the types of amateur radio licenses, and how to get an amateur license.

Questions: [aa3rr@verizon.net](mailto:aa3rr@verizon.net)

AA

**Notice of Proposed Rule Making - RM11708.**

The FCC has a request for a change of the rules for ham radio, RM-11708. The rules that will be impacted is having to do with baud rate and bandwidth for digital signals. Presently, there is a maximum of 300 baud allowed, but the proposal would allow 2.8 KHz bandwidth in the data portion of the bands. This could have significant negative impact on the CW, RTTY, PSK31, and some of the other modes below the voice portion of the bands. If you aren't aware of this proposal, you should read it and comment to both the FCC and ARRL.

73,  
Barry  
K3NDM Frequently Asked Questions about

the ARRL "Symbol Rate" petition,  
RM-11708

Q: Why did the ARRL think the petition to eliminate regulation by symbol rate was needed?  
A: HF data emissions are now limited to symbol rates that are based on the long -obsolete technology of the early telephone modems. Regulation by symbol rate is not appropriate for present and future generations of digital data modes because it prohibits the use of some new, efficient modes but does not prevent the introduction of digital data modes that have much wider bandwidths than are now in use.

Q: The petition proposes to substitute a bandwidth limit of 2.8 kHz for the symbol rate limits – why 2.8 kHz and not some other figure?

A: It accommodates the digital data modes that are now in widespread use while limiting future development to the bandwidth of an SSB transceiver.

Q: Would the proposed revision have any effect on phone or image operation?

A: No. There is no proposal to revise any rule applicable to the phone and image subbands.

Q: Would the proposed revision have any effect on digital voice operation?

A: No. The FCC rules define digital voice as phone.

Q: Does the proposed revision permit wider use of automatically controlled digital stations?

A: No. Section 97.221 would remain unchanged.

Q: Does the proposal expand the frequencies on which unspecified digital codes may be used?

A: No, although an error in the original ARRL filing suggested otherwise. As soon as it was discovered, this was corrected through the filing of an erratum.

Q: Is the proposal a precursor to large - scale regulation by bandwidth?

A: No. The proposal is to regulate the bandwidth of a single type of emission (data) in order to narrowly and surgically eliminate an out dated limitation in the FCC rules which precludes radio amateurs from experimenting and contributing to the radio art as fully as they should.

RM – 11708 specifically does not propose to group emissions of similar bandwidth together.

Q. Did ARRL evaluate the potential for interference to RTTY, CW and narrow bandwidth data modes that could result from an increase in wider - bandwidth data stations?

A. Yes. Data emissions, both narrow and wide bandwidth, are permitted now throughout the Data/RTTY sub-bands including the parts where CW operation takes place. Frequency selection is done on the basis of band planning, not FCC regulations. Nothing in the petition would change that except that data emissions using unreasonably large amounts of bandwidth would no longer be permitted. If there is an overall increase in data operation in the data/RTTY sub-bands as the result of eliminating the symbol rate limit, that outcome can and should be accommodated by band planning and cooperative sharing arrangements that hams have always been urged to use.

Q. Shouldn't 2.8 kilohertz bandwidth data emissions be restricted to the band segments where phone and image communications are permitted?

A. While some commenters have argued for that, it is far beyond the scope of the ARRL petition. It would require a complete reordering of the regulatory scheme for the HF bands which would be controversial, to say the least.

Posted February 19, 2014

Questions and comments may be directed to ARRL CEO David Sumner, K1ZZ at [dsumner@arrl.org](mailto:dsumner@arrl.org)

See the FCC submission here:  
<http://apps.fcc.gov/ecfs/comment/view?id=6017477458>

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AA

## Upcoming Hamfests for the MDC Section

Virginia Section Convention (Virginia Beach Hamfest)

Date: Saturday, September 10, 2016  
Location: Virginia Beach Convention Center  
1000 19th Street  
Virginia Beach, VA 23450  
Talk in: 146.970 (CTCSS 141.3 Hz)  
Time: 9AM-4PM Earlybird ticket entry at 8:30AM  
Website:  
Sponsor: Tidewater Radio Conventions  
Public Contact: Carl Clements, W4CAC  
4500 Wake Forest Road  
Portsmouth, VA 23703  
Phone: 757-235-4813

-----  
Santa Fest

Date: Saturday, December 10, 2016  
Location: American Legion Youth Camp  
9201 Surratts Road  
Cheltenham, MD 20623  
Sponsor: American Legion & Prince George's  
County Emergency  
Repeater Association  
Type: ARRL Hamfest  
Talk-In: 145.230 (PL 110.9)  
Public Contact: Charles Hallock, AA3WS  
16203 Manning Road  
West Accokeek, MD 20607  
Phone: 301-535-1666



# Repeaters and Nets

## 2 Meter Repeaters

Location	Frequency	Tone	Notes
Davidsonville	147.105+	107.2	AARC Repeater with morning traffic net.
Glen Burnie	147.075+	107.2	AARC repeater Located in Northern AA County.
BrandyWine	147.150+	114.8	<a href="#">SMARC</a> Repeater.
Prince Frederick	145.350-	156.7	<a href="#">SPARC/CARC</a> Repeater.
Laurel	147.225+	156.7	<a href="#">Laurel ARC</a> Repeater.
Millersville	146.805-	107.2	Repeater.

## 1.25 Meter Repeaters

Location	Frequency	Tone	Notes
Davidsonville	223.880-	107.2	AARC 1.25M repeater *check to see if tied into 7.105...
Millersville	224.560-	107.2	AARC repeater Located in Northern AA County.

## 70cm Repeaters

Location	Frequency	Tone	Notes
Davidsonville	444.400+	107.2	AARC 70 cm Repeater.
Annapolis	442.300+	107.2	AARC 70 cm repeater
Laurel	442.500+	156.7	<a href="#">Laurel ARC</a> 70 cm Repeater.
Millersville	449.125-	107.2	<a href="#">Maryland Mobileers</a> Repeater.
Upper Marlboro	443.600+	103.5	<a href="#">SMARC</a> 70 cm Repeater.

## Packet Stations

Location	Frequency	Call	Notes
Davidsonville	145.050	W3VPR	AARC Club packet node running JNOS
Davidsonville	145.010	W3VPR-5	Digipeter Relay to EOC Winlink
Millersville	145.010	W3AAC-5	Digipeter Relay to EOC Winlink
Glen Burnie	145.010	W3AAC-10	EOC Winlink system and digipeter

## Amateur Radio nets

Name	Frequency (in Mhz)	Day	Time
Morning Commuter Net	147.105+ PL 107.2	Weekdays	0600
AARC Talk Net	147.105+ PL 107.2	Wednesday	2000
AA County ARES Net	146.805- PL 107.2	Sunday	2000
Baltimore Traffic Net	146.670-	Daily	1830
Boating Net	146.805- PL 107.2	Wednesday	1930
Maryland Emergency Phone Net	3.920	Daily	1800
Maryland-DC-Delaware Traffic Net	3.643	Daily	1900 and 2200
<a href="#">Maryland Slow Net</a>	3.563	Daily	1930
React Net	147.105+ PL107.2	1st Sunday	1930

We use **simplex 146.430 Mhz** frequently enough that you should probably program that into your HT or mobile. This is the go-to frequency for many 5K race/walk volunteering efforts, local communication, Field Day setup, and the like when we're not using a repeater.

The *Ham Arundel News* is the monthly official publication of

The Anne Arundel Radio Club, Inc.  
(ARRL Club No. 0484).

**Editor: Milford Craig / N3WYG**

Send newsletter articles, questions and information to **Milford** at [newsletter@w3vpr.org](mailto:newsletter@w3vpr.org)  
Deadline for submissions – The Saturday after the 3rd Thursday of the month

**Mailing Address:**

Anne Arundel Radio Club  
Post Office Box 308  
Davidsonville, MD 21035

**Meetings:**

General Business 1st Thursday at 7:30 PM  
Board Meeting 2nd Thursday at 7:30 PM  
Program/Activity 3rd Thursday at 7:30 PM

**Dues:**

\$30 per year, payable December 1st  
Discounts available for family members and students

**World Wide Web:** [www.w3vpr.org](http://www.w3vpr.org)

AARC Supports The Maryland Slow Net:  
**3.563 MHz CW 7:30 P. M. Daily**

AA

**Free Money for AARC!**  
**ARRL Membership Reminder**

ARRL affiliated clubs receive a commission for every new ARRL membership and renewal they submit to ARRL Headquarters. Clubs retain a portion of the dues for each regular or senior membership submitted to ARRL Headquarters:

Clubs retain \$15 for each new membership OR lapsed membership (of two years or more).  
Clubs retain \$2 for each renewal,  
**A RENEWING MEMBER can renew at any time, even before their current membership expires.**

Send your application and payment (made out to AARC) to the club treasurer.



# Mark Your Calendars

## REGULAR ACTIVITIES

**Club Meetings** are held on the first and third Thursdays of the month from 7:30 to 9PM at the clubhouse located at the Davidsonville Family Recreation Center in Davidsonville, MD

**Free License Exams** every 2nd Saturday of the Month - Check in at Noon, Exams at 1PM - At the clubhouse - Contact Steve/K3BAY [k3bay@w3vpr.org](mailto:k3bay@w3vpr.org)

**Weekly AARC 2-Meter Net** on 147.105 (Typically linked to 147.075 and 444.400) every Wednesday at 8 PM - All Welcome

**2 meter Morning Commuter Net** on 147.105 (Typically linked to 147.075 and 444.400) every morning 6:30 am to 9:00 am. This is the famous Holly-net. Pre-Holly-net starts at 5 AM or so.

## EVENT SCHEDULE

- 01sep16** (Thu) - **Club meeting** at 7:30 PM. Tonight: W3VPR Antenna Walkthrough
- 08sep16** (Thu) - **Board meeting** at 7:30 PM (We have an open meeting policy)
- 10sep16** (Sat) - (free) **Exams** for your FCC amateur radio license, [every second Saturday of the month.](#)
- 11sep16** The [Mesh Networking Group](#) meets today.
- 15sep16** (Thu) - **Club meeting** at 7:30 PM, newcomers always welcome. Tonight, how Brian/K3HMX blows things up for fun and profit.
- 24sep16** (Sat) - **AARC Picnic.** Everyone's invited. Please bring something to share. We'll be serving hamburgers and hotdogs hot off the grill with your choice of beverages, down by the pavilion next to the clubhouse in Davidsonville.

## NOTICE:

The club has a new Google Calendar under test. The trial is open to anybody who understands the address may change at some point in the future. Get the latest AARC events on your Gmail calendar, iPhone, or Android device.





According to estimates, more than 40,000 homes were damaged or destroyed, leaving tens of thousands of residents displaced. The flooding also left 13 people dead. As of early today, the Federal Emergency Management Agency (FEMA) was reporting that about 3100 evacuees remained in Red Cross shelters. The Louisiana Emergency Operations Center remains at full activation, and more than 2800 National Guard personnel have been conducting flood relief operations around the clock.

According to FEMA, significant river flooding will persist into next week across portions of southern Louisiana, due to heavy rainfall late last week. Major flooding will mainly be along portions of the Mermentau and Vermilion rivers into next week. Backwater flooding southeast of Baton Rouge is also expected to continue into next week, especially impacting St John the Baptist, St James, Ascension, Iberville, East Baton Rouge, and Livingston parishes.

Used with permission from the ARRL Letter Aug 26, 2015  
AA

## Hurricane Watch Net on "Standby Alert" for Unnamed Potential Tropical Storm

The Hurricane Watch Net ([HWN](#)) will go on "Standby Alert" in the event that a strong tropical system bearing the designation "Invest 99L" becomes a named storm over the next couple of days. The system, which already has been generating gale force winds near the Virgin Islands, is moving west-northwest at 15 to 20 MPH.



HWN Manager Bobby Graves, KB5HAV, said weather models concur that South Florida could be affected.

"Some models have this system moving a little further south, bringing it over or close to the southern tip of Florida and then into the Gulf of Mexico," said HWN Manager Bobby Graves, KB5HAV. "After

that, where the storm will go, and how strong it will be, is yet to be determined."

NOAA described Invest 99L as "an area of low pressure associated with a tropical wave," which is producing gale force winds over water to the north of Hispaniola (Dominican Republic and Haiti).

According to the Federal Emergency Management Agency (FEMA), Invest 99L, also known within FEMA as "Disturbance 1," was located southwest of the Turks and Caicos, as of 1200 UTC. FEMA predicted gusty winds and heavy rain likely over the Leeward Islands, Puerto Rico, and the Bahamas. It calculated a "medium" (50 percent) chance that the storm would develop into a tropical storm within the next 48 hours, and a "high" (80 percent) chance over the next 5 days.

Graves said that should Invest 99L become a tropical storm, it will be named Hermine. "Should Hermine become a hurricane and moves to within 300 miles of landfall, the Hurricane Watch Net will activate and remain in continuous operation for as long as required," he said.

The HWN operates on 14.325 MHz during daylight hours and on 7.268 MHz after dark. As propagation dictates, the net may use both frequencies simultaneously, and Graves indicated that would "most likely be the case" under current conditions.

The HWN will post to its website and announce on the air any updates to operational plans or other changes, as well as notify the Amateur Radio news media.

"Should we need to activate, we will be requesting observed ground-truth data from those in the affected area (wind speed, wind gust, wind direction, barometric pressure – if available, rain, damage, and storm surge)," Graves said. "If you have *measured* weather data, that would be of great help. We are interested *only* in your *personal* observations, preferably measured by calibrated instruments," he added.

Graves said the HWN is available to provide back-up communication to official entities, such as emergency operations centers and the Red Cross in affected areas. "We will also be interested to collect and report significant damage assessment data to FEMA officials stationed at the National Hurricane Center," Graves said.

Used with permission ARRL News Aug 25 2016  
AA

## Updated Android Digital QST App Now Available

A completely rebuilt digital QST app for the Android platform now is available from publisher Nxtbook Media, which responded to readers' frustrations about getting the app to work properly. The fix took longer than expected, but it is finally here! Members who have enabled automatic updates on their devices will not have to do anything; the application will update automatically. Readers who have automatic updates turned off can obtain the new version by visiting the [Google Play Store](#). Functionality in the new app remains the same, although the layout is slightly different -- displaying the most recent magazine at the top and two or three books per row instead of in a single column. Download times should be faster as well. For optimal performance, it is recommended that Android users have the latest Android operating system, *Marshmallow* 6.0.

Used with permission ARRL Letter Aug 11, 2016  
AA

September is...  
**National Preparedness Month**  
Get a Kit, Make a Plan, Be Informed and Get Involved

## W1AW 2016 Spring/Summer Operating Schedule

### 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](mailto:w1aw@arrl.org).

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

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>.



## REPEATER FREQUENCIES

<b>Davidsonville</b>	<b>Millersville</b>	<b>Glen Burnie</b>	<b>Annapolis</b>
<b>147.105+</b>		<b>147.075+</b>	
<b>223.880-</b>	<b>224.560-</b>		
<b>444.400+</b>			<b>442.300+</b>

**PL: 107.2 for all repeaters**

The 147.105 and 147.075 repeaters are frequently linked. Please leave an extra second after the courtesy beep to allow the link to reset as well.

***Visitors are welcome to all meetings and nets.***

*Meetings are held in the Clubhouse at the  
**Davidsonville Family Recreation Center,**  
Queen Anne Bridge and Wayson Roads off  
MD Route 214 near Davidsonville, MD.*

*For en-route directions, make initial contact on the 147.105 repeater.*

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### Wednesday Night Talk Net -- All are welcome

8PM, On the AARC Repeater 147.105

#### Other Amateur Radio nets

Name	Frequency	Day	Time
Morning Commuter Net	147.105+Mhz PL 107.2	Weekdays	0600
AA County ARES Net	146.805- Mhz PL 107.2	Sunday	2000
Baltimore Traffic Net	146.670- Mhz	Daily	1830
Maryland Emergency Phone Net	3.820Mhz	Daily	1800
MD-DC-DE Traffic Net	3.557Mhz	Daily	1900 and 2200
Maryland Mobileers Net	146.805 PL107.2	Monday	1930
Maryland Slow Net	3.563 MHz	Daily	1930
REACT Net	442.300+Mhz PL107.2	1st Sunday	1930