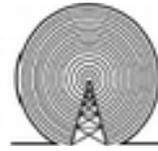


# THE HAM ARUNDEL NEWS



Providing Fellowship and Community Service through Amateur Radio Since 1951

January 2020

HAPPY NEW YEAR

41<sup>st</sup> Year of Publication



Keith Miller, AE3D

## The Prez Sez

As I write this, it's not January 2020 yet, but rather December 16, 2019 the morning after the Holiday Party. A year ago I was writing this column for the first time, and I was all excited about the prospects for the future.

I knew we needed to split our Committee structure into a system of committees and teams, with committee's being run roughly by Roberts Rules, and the Teams operating more like the military, with a leader in charge, and perhaps even an assistant leader. We did that. It was easy.

We needed a standing Rules Committee to start working on a Policy and Procedure Document to contain collective club wisdom, and retain information on long standing Board decisions. We did that too. In 2019 Chuck Tanner's Rules Committee created the Policy for the Trustee covering approved use of the W3VPR call sign.

The committee also set out to revamp the procedure, and rules for the annual Maryland DC QSO Party. The new procedure worked incredibly well. After several years of being months late on determining the winners, it too just over a month in 2019. Thank you Jim Wallace (N3ADF). Meanwhile rules changes are on the agenda this month.

Our Ham Shack project was well underway, thanks to my predecessor Richard Grace (KB3ZY0) but it was still rough around the edges. By that, I mean networking was not completely operational. Logging computers weren't installed, and the front edges of the tables weren't even there. We needed

rotor controls, a way to access the logging PC's remotely, another *Signalink USB* and a system of jacks for access to key input and headphone output, to keep



users from every having to 'go behind the rig and touch the cables'. We had no way to train people to operate our Shack, nor did we have a plan to administer it, or any sort of group to do so. We only achieved parts of that in 2019, the work continues.

Outside we hadn't really started. We needed an

almost all new system of antennas to provide 160m through 70cm capability, and we had no plan in place either. Plus before we could start, we needed repairs to both club house towers, one having no antenna, the other needing antenna repair work. We got one tower fixed, and a plan in place to pour a base around the other. Plus the beam was replaced with a Cushcraft A3S instead of being repaired. The Ham Shack Antenna Committee headed by Bernie Coletta (NK3PS) may have a plan in place as soon as later this month.

Meanwhile the big surprise of 2019 was not that the Fox Hunt failed to materialize. (I can't win them all.) The surprise was a person, Board Member Eric Berman (KC3GDV). Eric had his own agenda. I knew when he ran for the Board he would be quite an asset, but when he took over the job of Facilities Team Leader, wow! Everyone just got out of his way.

Eric formed the Wrecking Crew, a group of members, who show up at the club house Tuesday mornings ready to work. Eric reorganized Field Day storage, and created a workshop in Storage Room #1 that just keeps getting better. He reorganize the club house, arranged a sale of excess antenna making materials, made agreements with the Eagle Scouts to build us stairs, clear the area around the pedestal for placement of a new tower, pour concrete around the west tower's base, and create a small movable podium for the club house. Several of those are still under way. Then, when the opportunity struck Eric picked up a larger, movable podium, and a series of tables that can convert our club house into a class room. And speaking of such, Eric volunteered the AARC to help with South River High School's STEM program. Their kids spent 4 days with us this past fall, for which Eric arranged teachers which included a number of club members plus Rol Anders (K3RA) and Frank Donovan (W3LPL).

I mention all of the work done in 2019, because its the kinds of things I thought I'd be thinking about during the Holiday Party. But I was wrong. I was late already when asked to pick up the meat at the deli, so I was even later. I had been working on our paperwork since 7:30am and in my rush printed an older version of one document that turned out to be critical. I was plenty grumpy, and want to apologize to anyone I talked to in the first few minutes. But after that I stopped worrying about all the paperwork I was going to have to fix later, and looked around. And then I smiled. All I could think was, gosh I have a lot of friends in this room. Everywhere I looked I saw people who had been part of one of my Technician or General license classes. Three of them are on the Board

now! Plus there were still more who helped as instructors or in sharing their experiences with our students. There were people I'd served with on the Board, or who were committee chairs, or served in other key positions. They were everywhere too. Folks I met at public service events. Regulars from the Holly Net, some who's faces I wasn't familiar with but who's names and call signs were well known to me. There were those who worked Field Day, and of course my superb Field Day Chairman, David Rawley N3AT. Some were presenters at Membership Meetings. Some I knew from VE Testing, one or two from kit building, and a number of meeting regulars. All friends, all hams, all members of the Anne Arundel Radio Club, and all people who I could just walk up to and say 'Hi'.

So when I look back at all my years at the Anne Arundel Radio Club.... It's not what I got done that's important, it's the friends I made. To me you are the important part of amateur radio. I need to focus more on that. Let me thank all of you for being my friends.

73s...

Keith Miller, AE3D

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## Did you get a New VHF/UHF H/T or Mobile or Base For Christmas?

Congratulations for all who have passed their tests throughout 2019. You now have your 'ticket' and hopefully have purchased your VHF/UFV radio. It does not have to be new but it is new to you. There are some valuable sets you need to take to get full enjoyment from your equipmne.t

1. READ THE MANUAL and then talk to a friend who can guide you with the programming and set up of this unit.
2. Be sure you have a decent antenna and power supply for your radio.
3. Finally, be a member of an active radio clube, such as the Anne Arundel Radio Club. There will be someone there who can answer all of your questions. There are no questions to dumb and if necessary keep asking until you understand the capabilities of your new acquisition.

The Anne Arundel Radio Club is associated with the Americal Radio Relay League (ARRL). The "League" is another tremendous source of information from line of sige communications to around the world and even space communications. The 'League' is divided up into section and we are part of the Maryland/ District of Columbia section (MDC), Below is some general information that will help guide you in your quest to master this craft.

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Here is the band plan for the VHF/UHF Amateur Radio Spectrum.

### VHF 2m (146 MHz) Repeater Offsets & add PL Tone if required

- 145.1 - 145.5 MHz -600 kHz
- 146.0 - 146.4 MHz +600 kHz
- 146.6 - 147.0 MHz -600 kHz
- 147.0 - 147.4 MHz +600 kHz (e.g. Listen 147.225 / Transmit 147.825)

147.6 - 148.0 MHz -600 kHz

\*\* Some 2m repeater offsets are not ±600kHz

### VHF 1 $\frac{1}{4}$ m (222MHz) Repeater Offsets & add PL Tone if required

223.85 – 224.98 MHz – 1.6 MHz

### UHF 70cm (440Mhz) Repeater Offsets & add PL Tone if required

442.0 – 445.0 MHz + 5 MHz (California repeaters start at 440 MHz)

447.0 – 450.0 MHz – 5 MHz

### MDC SECTION Propagation Beacon(s):

144.296 MHz W3APL Laurel MD at Grid: FM19ne  
w/ 10W+loop @ 60'

FCC Technician Class Licensees have several Radiosport / Contesting opportunities  
[<http://contests.arrl.org/>](http://contests.arrl.org/).

First, sign-up "NOW" for Logbook of the World (LoTW), if you're not an ARRL member - join today. <http://www.arrl.org/logbook-of-the-world> LoTW helps gather, validate and certificate you for many QSO Awards, so get credit for you QSOs.

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## Maryland DC Section Reflectors

We introduced a new MDC Section reflector, ARRL MDC Section Winlink Training Group for P2P and Hybrid networks, or MDCQRV for short. Please make use of this tool to sharpen skills and fine tune your configuration files. Located at:  
<https://groups.yahoo.com/neo/groups/MDCQRV/info>.

The new ARRLMDCSection Yahoo Reflector is now available. If you are not a member. .you should be!! I encourage you to use this to stay informed or keep in-touch with the rest of your fellow ARES members. With the wide distribution of this newsletter coming out only once a month, this Yahoo Site will keep you up to date with late breaking news, including a possible disaster call up. There is very little traffic to clog your in box.

I don't know if all the DECs and ECs are subscribing to the Yahoo Reflector. If you are not, please do. This is going to be the quickest way possible to inform MDC Section ARES of current incidents and impending disasters. Please do it now.

You can join at:

<https://groups.yahoo.com/neo/groups/ARRLMDCSECTION/info>.

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## Winter Field Day

MDC SECTION - One MONTH before Amateur Radio Winter Field Day -

Winter Field Day is a 24-hour long event, from **Saturday, January 25th**, 2019, 2pm EST (1900 UTC) to **Sunday, January 26th**, 2019, 2pm EST (1900 UTC).

All bands may be used, except 12, 17, 30 and 60 meters which prohibit contesting.

All modes are available. MDC Section Winter Field Day groups: Prince George's County, Maryland ARES/RACES (<https://www.pgares.org/>) and Anne Arundel County Amateur Radio (<https://www.w3vpr.org/node/362>). More info about Winter Field Day at <https://www.winterfieldday.com/>

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AA

## Fine-tuning your radio skills and station is easy with the

### ARRL W1AW Operating Schedule

(in this issue)  
Code, Digital, Voice.  
Also available via W1AW  
Conference Server "W1AWBDCT"

<http://www.arrl.org/echolink-irlp>  
<http://www.arrl.org/w1aw-operating-schedule>

AA

## Take A Brief Survey



ARRL is inviting listeners of the So Now What? podcast for amateur radio newcomers to take a brief survey about the bi-weekly podcast. The survey

will close on December 13. -- Thanks to Michelle Patnode, W3MVP, ARRL Communications Content Producer

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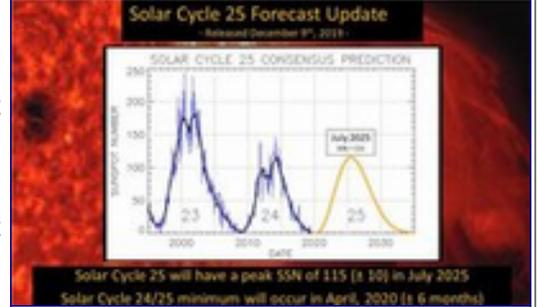
AA



## NOAA/NASA Panel Concurrs that Solar Cycle 25 will Peak in July 2025

The NOAA/NASA-co-chaired international Solar Cycle Prediction Panel has released its [latest forecast](#) for the coming Solar Cycle 25. The panel's consensus calls for a peak in July 2025 ( $\pm 8$  months), with a smoothed sunspot number of 115. The panel agreed that Cycle 25 will be of average intensity and similar to Cycle 24. The panel additionally concurred that the solar minimum between Cycles 24 and 25 will occur in April 2020 ( $\pm 6$  months). If the solar minimum prediction is correct, this would make Solar Cycle 24 the seventh longest on record at 11.4

years. In its preliminary forecast released last April, the scientists on the panel forecast that Solar Cycle 25 would likely be weak, much like the current Cycle 24.



"Solar Cycle 25 may have a slow start, but is anticipated to peak with solar maximum occurring between 2023 and 2026, and a sunspot range of 95 to 130. This is well below the average number of sunspots," the panel said last spring, adding with "high confidence" that Cycle 25 "should break the trend of weakening solar activity seen over the past four cycles." The panel said the expectation that Cycle 25 would be comparable in size to Cycle 24 suggests that the steady decline in solar cycle amplitude seen from Cycle 21 through Cycle 24 has ended and that there is no indication of an approaching "Maunder-type" minimum. Cycle 24 peaked in April 2014 with an average sunspot number of 82.

The Solar Cycle Prediction Panel forecasts the number of sunspots expected for solar maximum, along with the timing of the peak and minimum solar activity levels for the cycle. It is comprised of scientists representing NOAA, NASA, the International Space Environment Services, and other US and international scientists.

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AA

## Net Control Radio Operators

**ARE NEEDED for the HOLLY NET**

during the work-weekdays -

from 0700 to 0900 am.

**Contact: Jim Wallace, N3ADF**



## AARC STAFF – 2020 Officers

<b>President</b>	Keith Miller / AE3D president@w3vpr.org	240 758 0423
<b>Vice President</b>	Jim Wallace, (N3ADF) vice.president@w3vpr.org	
<b>Secretary</b>	Bernie Coletta / NK3PS secretary@w3vpr.org	
<b>Treasurer</b>	Bill Mooney / KA3UQQ treasurer@3vpr.org	
<b>Director A</b>	Eric Berman / KC3GDV eric.board19@w3vpr.org	
<b>Director B</b>	Doug Ellmore, (NA1DX) TBA	
<b>Director C</b>	Scott DeMatteo, (W3GTR) TBA	

### Support Staff

#### Membership Secretary

<b>Information Officer</b>	Ed Santilli / KB3YMU info.officer@w3vpr.org	
<b>Safety</b>	John Bowes / KB3YLY safety@w3vpr.org	443 760 1666
<b>Security</b>	Tom Provenza / N3HLD security@w3vpr.org	

### Representatives

<b>ARES/RACES</b>	John Bowes / KB3YLY ares.races@w3vpr.org	
<b>DFRC Rep</b>	Milford Craig / N3WYG dfrc.rep@w3vpr.org	301 218 8867
<b>FAR</b>	Ed Brown / AA3EB far.rep@w3vpr.org	301 856 3317
<b>Fox Hunt</b>	Jim Wallace / N3ADF	
<b>Joint 440 Comm</b>	Gordon Davids / WJ3K joint440@w3vpr.org	410 647 2956
<b>MD Slow Net</b>	(T B A)	
<b>MDC Section Manager</b>	Marty Pittinger / KB3MXM arrl.sec.mgr@w3vpr.org	
<b>Public Relations</b>	Ed Santilli / KB3YMU pr@w3vpr.org	301 261 7561
<b>Resident Agent</b>	Justin Leishman / KC3BJT ra@w3vpr.org	
<b>Trustee</b>	Dick Mayo / WW3R trustee@w3vpr.org	

### Committees

<b>Club Sale &amp; Auction</b>	Ike Lawton / W3IKE club.sale@w3vpr.org
<b>Digital Networking</b>	Ted Ruddy
<b>Facilities</b>	Eric Berman / KC3GDV facilities@w3vpr.org
<b>Field Day</b>	(TBD)
<b>Station Manager</b>	(TBD)

<b>Holly Net</b>	Jim Wallace / N3ADF holly.net@w3vpr.org	
<b>HSMM-MESH</b>	(TBD)	
<b>Kit building &amp; Repair</b>	hsmm.mesh@w3vpr.org 'Raven' Weiland / KB3MUJ 203 948 5369 kit@w3vpr.org	
<b>MDC QSO Party</b>	Jim Wallace / N3ADF mdcqsop@w3vpr.org	301 538 6233
<b>Newsletter</b>	Milford Craig / N3WYG newsletter@w3vpr.org	301 218 8867
<b>Packet Radio</b>	Jonathon Grafe / AE2JG packet@w3vpr.org	240 426 2664
<b>Program</b>	Tim Nagel / KB3YQK vice.president@w3vpr.org	
<b>Public Service</b>	Erick Graves / WA3G public.service@w3vpr.org	410 987 7670
<b>Repeater Ops</b>	John Williams / K8JW repeaters@w3vpr.org	410 647 7406
<b>Rules</b>	Chuch Tanner / K3ACT rules.chair@w3vpr.org	301 464 2667
<b>Service Hours</b>	Jim Wallace / N3ADF service.hours@w3vpr.org	301 538 6233
<b>Tower</b>	(TBD)	
<b>Training</b>	tower@w3vpr.org Keith Miller / AE3D training@w3vpr.org	240 758 0423
<b>VE Team</b>	David Rawley / N3AT testing@w3vpr.org	
<b>Webmaster</b>	Mark Bova / W2PAW webmaster@w3vpr.org	240 274 6294
<b>Wed. Nite Net</b>	Jamison Phipps / W3KNH wednesday.night.net@w3vpr.org	
<b>Winter Field Day</b>	Rick Steer / AB3XJ winter.field.day@w3vpr.org	

### Groups

<b>Board of Directors</b>	board19@w3vpr.org
<b>Kit Building Committee</b>	kitbuilding@w3vpr.org
<b>Rules Committee</b>	<a href="mailto:rules@w3vpr.org">rules@w3vpr.org</a>



## VE Testing Schedule

**Second Saturday of each month  
– Noon – AARC –**

David Rawley, N3AT [testing@w3vpr.org](mailto:testing@w3vpr.org)

**Third Saturday of each month – 9AM – Laurel ARC –**  
John Creel, 301-572-5124

**Fourth Tuesday of each month – 6PM – MMARC –**  
Mike Montrose / KA2JAI 443-310-4907 web site is  
[tinyurl.com/marylandmobileers](http://tinyurl.com/marylandmobileers)

#### To all exams bring:

- Picture ID
- Social Security Number or FCC Registration Number (FRN)
- **ORIGINAL** and a **COPY** of current FCC amateur radio license
- **ORIGINAL** and a **COPY** of all element credits (eg., FCC letters, old licenses or unexpired Certificates of Successful Completion of Examination-CSCE)



## The Sun's Magnetic Field Flips for Cycle 25 –

The switch happens around the peak of solar activity or solar maximum and marks the sound-half beginning of the Solar Cycle.

The appearance of Sunspot marks the beginning of the next Solar Cycle but what occurs before the beginning of the Sunspots? The change in the Sun's yearly average total irradiance during an 11-year cycle is on the order of 0.1 percent or 1.4 watts per square meter. But is this measurement good-enough to predict the onset of the next Solar Cycle?

Irradiance (also called insolation) is a measure of the amount of sunlight power that falls upon one square meter of exposed surface, usually measured at the 'top' of Earth's atmosphere. This energy increases and decreases with the season and with your latitude on Earth, being lower in the winter and higher in the summer, and also lower at the poles and higher at the equator. But the sun's energy output also changes during the sunspot cycle!

The first sunspot appearance sun's hemisphere will herald in the beginning of a new 11-year solar cycle, researchers say. Here on Earth, it's not obvious what that means to our everyday life but Solar activate of current Cycle 24 - nearing the lowest point of 11-yr means Solar Cycle-25 is forecasted to peak soon; ending by 2030.

See-

<http://www.arrl.org/w1aw-bulletins-archive-propagation>  
<http://www.arrl.org/propagation-of-rf-signals>

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## ARESMAT Zoom Conferencing

ARESMAT Zoom conferencing, initiated and continued through the dedication of Ken KG4USN MDC ASM PIC/EA will now shift leadership to Steven KC3DSO, AEC and continue the collaboration with our adjacent Sections. Next Video Conference will be schedule with participates.

Contact Steven KC3DSO MDC ASEC [kc3dso@gmail.com](mailto:kc3dso@gmail.com) to participate and learn more about ARESMAT Amateur Radio Mutual-Aid. The next ARESMAT Video Conference Call is in January 2020. Contact our ASEC Steven KC3SDO to be included.

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## Theme For The 2020 Dayton Hamvention®

The theme for the 2020 [Dayton Hamvention®](#) will be "Amateur Radio, The Future." Hamvention General Chair Jack Gerbs, WB8SCT, invited Hamvention attendees to celebrate amateur radio's past, present, and future. "As amateur radio operators, we enjoy many modes of operating," Gerbs said. "We also enjoy challenges such as satellite



communications, moonbounce, meteor scatter, and more. What truly excites me about our hobby is the diversity of these modes and the fact that, as we move to the future, we still enjoy the technologies of the past." Gerbs noted that Hamvention has long been a place to find vintage parts and gear and to see the latest technology. "The theme acknowledges the role that amateur radio has always played and will continue to play in future communication developments," Hamvention said, acknowledging the contributions of the many hams who actively work on new ideas, equipment designs, and software to improve electronic communication. Hamvention 2020 takes place May 15 - 17 at the Greene County Fairgrounds and Expo Center in Xenia, Ohio

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## MDC SECTION HAMFEST :

### Sunday, January 26

Post-Holiday Hamfest at Odenton Volunteer Fire Department, 1425 Annapolis Road (Rt. 175) Odenton MD Maryland Mobileers Amateur Radio Club  
Opens: 7:30 AM until Noon

VE Exam: 9AM and pre-registration is preferred & walk-ins are welcome

Card Checking: QSL Card checking will be available on site

Talk-In: 146.805 MHz PL107.2)

Public Contact: Bruce AB3AC

Phone: 410-456-2500 / Email:

[bmcpherson73@verizon.net](mailto:bmcpherson73@verizon.net)

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## Event To Honor Beethoven

A year-long special event will honor **Beethoven**. German special event station [DL250BTHVN](#) will be active between December 16, 2019, and December



17, 2020, to honor the 250th anniversary of the birth of famed composer Ludwig van Beethoven. The Beethoven anniversary year will take place under the auspices of Germany's Federal President Frank-Walter

Steinmeier. Beethoven was born in December 1770 in Bonn, Germany, and lived there for the first 22 years of his life. The anniversary event is aimed in part at highlighting Beethoven's extensive oeuvre as a composer and to boost Bonn's reputation as a "Beethoven city." QSL via direct or by the bureau.

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# CONGRATULATIONS

RHODES, BRAD E -- KG4COS -- Upgrade to Amateur Extra

Rudie, James T -- KC3LMV -- Upgrade to Amateur Extra

Cherry, Denise M -- KC3OIA -- Upgrade to General

Ehrenreich, John M -- K3DDT -- Upgrade to Amateur Extra

Laur, Matthew J -- KC3OOB -- New Technician

Beck Jr, Robert W -- KC3OOC - -- New Technician

Robson, Christopher L -- KC3OOD -- New Technician

*Good job! Well done! Welcome to the Amateur Radio.  
Please join us in all the activities of the  
Anne Arundel Radio Club.*

*President and board of Directors*

*Anne Arundel Radio Club*

*December 2019*





## AARC 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	SMARC Repeater.
Prince Frederick	145.350-	156.7	SPARC/CARC Repeater.
Laurel	147.225+	156.7	Laurel ARC 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	Laurel ARC 70 cm Repeater.
Millersville	449.125-	107.2	<u>Maryland</u> Mobileers Repeater.
Upper Marlboro	443.600+	103.5	SMARC 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
The "Holly Net"	147.105+ PL 107.2	Weekdays	0700
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
Maryland Slow Net	3.563	Daily	1930
React Net	442.300+ PL 107.2	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.*

## 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
The "Holly Net"	147.105+Mhz PL 107.2	Weekdays	0700
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

# The Radio Amateur Operator is...

## **CONSIDERATE**

...He/[She] never knowingly operates in such a way as to lessen the pleasure of others.

## **LOYAL**

...He/[She] offers loyalty, encouragement and support to other amateurs, local clubs, the IARU Radio Society in his/[her] country, through which Amateur Radio in his/[her] country is represented nationally and internationally.

## **PROGRESSIVE**

...He/[She] keeps his/[her] station up to date. It is well-built and efficient. His/[Her] operating practice is above reproach.

## **FRIENDLY**

...He/[She] operates slowly and patiently when requested; offers friendly advice and counsel to beginners; kind assistance, cooperation and consideration for the interests of others. These are the marks of the amateur spirit.

## **BALANCED**

...Radio is a hobby, never interfering with duties owed to family, job, school or community.

## **PATRIOTIC**

...His/[Her] station and skills are always ready for service to country and community.