







# 4U1UN UN Amateur Radio Club Operation Could Resume Later this Year

08/08/2018

Outside of beacon signals, **4U1UN**, the Amateur Radio club station at United Nations Headquarters in New York, has not been heard on the air since 2015, and only then under the commemorative 4U70UN call sign marking the UN's 70th anniversary that fall, with operation from a ground-level garden area within the UN Headquarters complex. That could change soon.



The **4U1UN** station, once within the iconic UN building, was dismantled in 2010 and antennas removed in advance of extensive building renovations. But room for **4U1UN** — which counts as a separate DXCC entity — was not allocated in the new building layout. UN staffer James Sarte, **K2QI**, the president of the United Nations Amateur Radio Club (UNARC), said in late

July that “red tape” has been a roadblock to getting **4U1UN** back on the air.

“It’s taken us years just to get the administration and security to allow us to resume beacon operations,” he **told** DX-World.net. “Security protocols became much tighter after 9/11. And when renovations [for] the Secretariat were completed, staff were no longer permitted to engage in any activities above the [Secretary-General’s] floor. That said, we’re slowly working to restore operations.”

Negotiations have been continuing off and on for a

few years now, but Sarte says that any notion of returning to staffed operations from the station’s former forty-first-floor annex is a thing of the past. “Any such activity from the club will have to be done



remotely from a broadcast booth that was loaned to us by the UN’s broadcast services section,” he explained. “The good news, however, is that new equipment was recently donated to the club that would make that a reality. The transceiver, amplifier, and associated network equipment are now in place. We also had a dedicated closed network line installed primarily for that purpose.” Operation would take place from UN Headquarters grounds.

Sarte said the remaining task is to install an antenna and begin testing, which, he estimated, should happen this month, and may already have begun.

“I know many have been waiting for the return of **4U1UN**. No one wants to see it back on the air more than I do, but please understand that support for Amateur Radio operations by the [UN] administration has waned over the years. To get where we are today took a lot of cajoling and negotiation.” Most of the burden has fallen on Sarte, who said his workload has increased, plus funds are tight. “But I do promise that **4U1UN** will be back on the air soon,” he concluded.

**4U1UN** is the 34th most-wanted DXCC entity, ahead of such Swain’s Island, Myanmar, and Yemen. Max de Henseler, **HB9RS (SK)**, spearheaded the effort to establish a UN Headquarters Amateur Radio station in 1978. Before that, a UN Amateur Radio station operated as **K2UN**.

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## Hamvention Officials Say No New Building for 2019

Hamvention® and Greene County, Ohio, officials have been unable to reach agreement on erecting a new building that could accommodate Hamvention activities at the Greene County Fairgrounds and Expo Center in Xenia, Ohio.



The Greene County Fairgrounds and Expo Center in Xenia, Ohio, has been home to Hamvention since 2017. [Greg Ordy, **W8WWV**, photo]

“Hamvention/Dayton Amateur Radio Association has spent many hours working with Greene County officials to reach an agreement on a long-term contract where both the Fairgrounds and Hamvention would feel comfortable erecting a new building,” read an August 5 statement from Hamvention General Chairman Jack Gerbs, **WB8SCT**, and Assistant Chair Rick Allnutt, **WS8G**. “Unfortunately, we have currently been unable to successfully reach an agreement satisfactory to all parties.” Gerbs was quick to reinforce that Hamvention continues to have an excellent relationship with the county and the Fair Board, but it does mean there will not be a new building in time for Hamvention 2019.

In January, Hamvention walked back an earlier announcement that a new building would be erected in time for the 2018 show. At the time, then-General Chair Ron Cramer, **KD8ENJ**, anticipated that construction would be completed this year in time for Hamvention 2019.

Gerbs cited some significant upgrades accomplished in 2018, including improved tent shelters, permanent paths in the flea market area, and an additional



## ARRL Board of Directors' Committee Seeks Input for Proposed ARES Strategic Plan

Following up on an ARRL Board of Directors directive at its July meeting, the Public Service Enhancement Working Group (PSEWG) has contacted all ARRL Section Managers (SMs) and Section Emergency Coordinators (SECs) seeking comments and suggestions regarding the proposed [ARES Strategic Plan](#), via an online form. The deadline is October 31, in order to give the PSEWG sufficient time to review the comments and suggestions, formulate any necessary revisions, and submit the revised document to the Board for consideration at its January meeting.

Created in 1935, ARES has undergone very few changes over the years, while the agencies ARES serves have undergone many. The PSEWG evaluated the ARES program for 2 years and drafted several proposed enhancements aimed at updating the program.



The *ARES Strategic Plan* introduces changes and a platform for future growth. For many, this will represent a major paradigm shift; for others, it will formalize many of the requirements they have employed routinely for several years.

An independent team of individuals experienced in ARES and emergency work from across the US has reviewed the proposed plan. Their suggestions and recommendations were carefully considered, and many were included in the plan during its development.

Now, the ARRL Board wants SMs and SECs to have the opportunity to offer comments on the recommended changes prior to implementation of the plan. While SMs and SECs are invited to reach out to their Emergency Coordinators (ECs) for their thoughts and feedback, formal responses must be submitted through SMs and SECs.

The PSEWG asks SMs and SECs to keep their comments respectful, concise, and on point, and to keep in mind that the ARES framework must remain as close to universal as possible, even while participants in some geographical areas may require specific training that others do not need. Mutual aid pacts may require training specific to adjacent jurisdictions.

Also, SMs and SECs are reminded that specific agency agreements and needs must be honored. Those having concerns about a proposed new policy are requested to offer alternatives.

Used with permission The ARRL Letter for August 9, 2018

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## ARRL Seeks Comments On ARES Strategic Plan From Section Managers And Section Emergency Coordinators

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Public Service Enhancement Working Group Chairman and Great Lakes Division Director Dale Williams, WA8EFK, presents his group's proposals at ARRL EXPO at Dayton this past May.

## Follow Up on Damage Assessment Practice by California Groups

Published In the last issue was a letter from the Pacific Palisades Amateur Radio Emergency Group (PPAREG) of California about their excellent damage assessment/communication practice activity. In scenarios, they canvass their neighborhoods to attempt to assess what has happened. For data observation/collection practice, they started with counting parked cars on a given street, going from intersection to intersection, and reporting in to the net. They count other items such as parkway trees, motorcycles and trucks. Then, they assign these counts real life attributes such as number of residents, gas leaks, power lines down, residence fires, non-ambulatory injuries, victim non-responsive, etc.

Recently, PPAREG reached out to [Cupertino ARES/RACES](#) (CARES) [check out their website for their excellence in activity and service -- ed.] for assistance with its program and the forms CARES use to field collect situation/preliminary safety assessments (PSAs) in emergencies/disasters. Their goal was to help move PPAREG monthly exercises from just counting street parked cars to a full blown disaster assessment package. In his letter to the Cupertino group, Scott Reaser, K6TAR, wrote "the Pacific Palisades Amateur Radio Emergency Group has much work to do to achieve an effective response organization. We've learned that Cupertino ARES/RACES and its work with the City of Cupertino is a model of what things look like done right."

The Cupertino group's EC Jim Oberhofer, KN6PE, responded by sharing their advice and forms COES 105 (field form) and COES 106 (rollup form). For applications, Oberhofer also shared their [PSA resource page](#). Cupertino ARES/RACES also published a training video, which shows the processes and use of the forms, on YouTube: <https://www.youtube.com/watch?v=tmm-2IBKiQQ>

From subsequent reports, PPAREG is working to incorporate CARES' forms and best practices for enhancement of their own methodologies.

[Editor's note: I enjoyed corresponding with Scott Reaser, K6TAR, on this example of excellence in mutual assistance, help and support between the PPAREG and Cupertino ARES/RACES. We amateurs in ARES tend to think of mutual assistance usually in the context of large scale disasters, when in fact, it exists in "peacetime," too. It's an example other ARES groups around the country can apply for their own mutual benefit, too. Reach out to your neighboring ARES/RACES/ACS groups to share lessons learned, program practices and protocols, for improving respective programs. The collateral benefit is the networking, which leads to getting to know each other's groups, leaders and personnel for mutual assistance and working together when it matters the most - when it hits the fan.]

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## Amateur Radio Emergency Service Volunteers Assist in California Fire Response

Amateur Radio Emergency Service® (ARES®) volunteers pitched in to assist where needed to provide or support communication during the catastrophic fire in California. Volunteers from multiple ARRL Sections in the state stepped up to help. The fires have claimed several

lives, destroyed more than 1,000 homes, and forced countless residents to evacuate, including radio amateurs. ARRL Sacramento Valley Section Emergency Coordinator (SEC) Greg

Kruckewitt, KG6SJT, said that the last ARES volunteers deployed to support American Red Cross shelter stood down on August 7. Other



shelter communicators deployed earlier remained on duty for 10 days. Initially, there were four shelters in Redding. On August 5, the Shasta-Tehama ARES team was able to take its communications trailer to Trinity County to support a shelter in Weaverville opened for Carr Fire evacuees, he said.

"This relieved the Sacramento County ARES volunteers who had been up there for several days," Kruckewitt said, adding that communications at the shelter were important, as power and cell phone coverage was often spotty, with power going off for hours at a time. [CalFire](#) reported on August 9 that the Carr Fire in Shasta and Trinity counties covered more than 176,000 acres and was 47% contained. Evacuations and road closures are in effect. At one point, more than a dozen ARES volunteers from Shasta, Sacramento, Butte, Placer, Trinity, and El Dorado counties were working at shelters opened in the wake of the Carr Fire.



Sacramento Valley ARES member Michael Joseph, KK6ZGB, at the Red Cross Gold County Region Disaster Operations Center.

Sacramento Valley ARES member Michael Joseph, KK6ZGB, served as the liaison at the Red Cross Gold County Region Disaster Operations Center (DOC) in Sacramento, Kruckewitt noted, adding that Joseph had been in the DOC since the fire started.

Kruckewitt said [Winlink](#) was the go-to mode, as fire has damaged several repeaters and no repeater path exists to the Gold County Region of the Red Cross in Sacramento.

"One difficulty we ran into this weekend was that the Red Cross needed [ARES Emergency Coordinator and SEC] contact information for various counties that also are experiencing fires and having to open shelters," he said. Completing that task involved lots of phone calls. "We encourage all ARES members to get to know their neighboring ARES groups and...check into their nets."

Joseph reported last weekend that the Mendocino Complex Fire was being closely monitored, although no additional requests for ARES assistance were being made. The Ranch Fire in the Mendocino Complex as of August 9



# 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	<a href="#">Maryland Mobileers</a> 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
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
<u>Maryland Slow Net</u>	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.

## Satellite for Post-Earthquake Communication

Amateur Radio volunteers in Indonesia have been taking advantage of the LAPAN-ORARI (IO-86) ham satellite in addition to HF on 7.110 MHz as the Lombok area recovers from two recent earthquakes. The death toll has topped 400. A second powerful earthquake in the area on August 5 killed at least 98 people and seriously injured more than 200 others.

Power in the area has been disrupted, and Kardi Wibisono, YB9KA, and Untung "Adi" Riadi, YB9GV, of the West Nusa Tenggara Region chapter of [ORARI](#), the Indonesian national Amateur Radio organization, have been leading efforts to provide communication to areas lacking cellular coverage. That has included hauling batteries to run repeaters taken down by the power outage. Four repeaters are reported to be operating in the disaster area. ORARI Headquarters has asked for more repeater support from its Bali Island region and issued an official request to help with logistics and additional volunteers in Lombok.

In addition to designating the HF National Emergency Frequency of 7.110 MHz, VHF frequencies have been established and the LAPAN-ORARI (IO-86) satellite has been activated to assist with communication. Launched in 2015, IO-86 carries an FM transponder and an APRS digipeater. The Central Java Region of the Indonesian Search and Rescue Council sent in a team to join the national rescue operation in Lombok and ORARI volunteers.

Indonesian President H. Joko "Jokowi" Widodo is YD2JKW. -- *Thanks to Southgate Amateur Radio News via IARU Region 1; Dani, YB2TJV, and AMSAT News Service*

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## HAMFESTS & SPECIAL RADIO EVENTS

This is a list of Hamfests in the Maryland-DC Section and nearby Pennsylvania, northern Virginia, West Virginia and Delaware as a courtesy to our neighboring Section Managers.

Also listed are radio events for communication enthusiasts.

For this month our MDC SM adds On-Air Events. For our section members interested in other types of RF communication, events and activities related to the RF spectrum. Please send your suggestion and comments to [ARRLMDC@gmail.com](mailto:ARRLMDC@gmail.com)

You may view upcoming Hamfests which are being held in the MDC Section and nearby in Pennsylvania, Delaware, West Virginia and northern Virginia area by clicking on either: <http://www.arrl-mdc.net/hamfest.htm> or the ARRL's Hamfest and Convention Calendar at: <http://www.arrl.org/hamfests-and-conventions-calendar>

### 60th ARRL West Virginia State Amateur Radio Convention

Date: Friday, August 24th to Sunday, August 26th



Location: Jackson's Mill WVU Conference Center, Weston, WV  
Sponsor: West Virginia State Amateur Radio Council  
Talk-in: 145.390 (-) PL 123.0 WD8EOM  
Website: <http://qsl.net/wvsarc/>

### Pennsylvania State Convention (Uniontown Gabfest)

Date: Saturday, September 01, 2018  
Location: Uniontown ARC Clubhouse, Uniontown, PA  
Sponsor: W3PIE - Uniontown Amateur Radio Club  
For more info, click on: <http://www.w3pie.org/>

### Virginia Beach Hamfest

Tidewater Radio Convention Inc.  
Date: Saturday, September 8, 2018  
Location: Virginia Beach Hamfest Convention Center  
Sponsor: Virginia Beach Amateur Radio Hamfest  
Talk-In: 146.970 (-) PL 141.3  
For more info, click on: <http://virginiabeachhamfest.com/>  
Contact: Bill Holand, WA4EUL, [wa4eul@arrl.net](mailto:wa4eul@arrl.net)

### REDBALL Swap Meet

Military Radio Collectors Association (MRCA)  
Military Radio Meet/Redball Military Transport Rally  
Date: Fri - Sat, 21 - 22 Sept. 2018, 8 AM - 5 PM  
Location: West End Fairgrounds, Gilbert, PA  
Between Lehighton and Stroudsburg  
Website: <https://redballonline.org/>

### -- New AMSAT Facebook -

<https://www.facebook.com/groups/AMSATNA/about/>  
Shortwave Radiogram via WRMI w/transmission schedule <http://swradiogram.net/>

### - Something New & Interesting -

Digital Radio Mondiale or DRM is a digital audio & data-casting broadcast technologies for existing analog commercial radio on AM, SW and FM; for higher quality audio across a wider-bandwidth using MPEG-4 audio coding formats. Follow the latest news and information about DRM at: <http://drмна.info/> DRM, Digital Radio Mondiale North America, DRMNA

**WINB on 9265 kHz AM** is America's oldest domestic commercial shortwave station. It is a brokered Christian shortwave radio station in Red Lion, PA. They are testing DRM using two different transmitters directed to both Europe and North America on 15670 kHz M-F between 1100-1700 UTC at approx. 10 kW DRM power and a transmitting Bit Rate of 8.28 kbps.

**The GAMUT, LP 820 kHz AM station** near Frederick MD switched to DRM on Monday, July 16th. If you have a DRM car radio or looking to explore DRM several radio brands are available. Enjoy the high AM fidelity DRM brings.

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# SECTION TRAFFIC MANAGER'S REPORT

## MDC 1807 STM REPORTS

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### MDC NETS 1807:

MEPN/C2, MARYLAND EMERGENCY PHONE NET,  
3820/1800L-DY  
Liaisons: 3RN2/MDD/DTN/BTN/WVA/NTSD/WL2K  
MEPN 1807 W3YVQ QND/31 QNI/426 QTC/50 MINS/730

BTN/C4, BALTIMORE TRAFFIC NET, 146.67/1830L-DY  
Liaisons: MEPN/MDD/NTSD/WL2K  
BTN 1807 AB3WG QND/31 QNI/381 QTC/49 MINS/497

MDD/C4, MARYLAND/DC/DELAWARE NET, 3557/1900L-  
2200L-DY  
Liaisons: 3RN4/MEPN/BTN/DTN/NTSD/WL2K  
MDD 1807 AA3SB QND/60 QNI/328 QTC/123 MINS/610

MSN, MARYLAND SLOW NET, 3563/1930L-DY  
TRAINING,  
Liaisons: MDD MSN 1807 W8CPG QND/31 QNI/152  
QTC/32 MINS/658

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### MDC NTS NETS:

MEPN 1807 W3YVQ QND/31 QNI/426 QTC/50 MINS/730  
BTN 1807 AB3WG QND/31 QNI/381 QTC/49 MINS/497  
MDD 1807 AA3SB QND/60 QNI/328 QTC/123 MINS/610  
MSN 1807 W8CPG QND/31 QNI/152 QTC/32 MINS/658  
PSHR: NI2W 215, WB3FTQ 140, KK3F 140, W3YVQ 135,  
AA3SB 130, W3CB 113, K3IN 110, KC3HWU 90, AB3WG  
73, KB3LFG 52;  
TFC: KK3F 1417, K3IN 243, W3YVQ 136, WB3FTQ 129,  
AA3SB 74, KC3HWU 52, AB3WG 30, NI2W 25, W3CB 17,  
KB3LFG 2  
MDC 1807 SARS FILED: KK3F, K3IN, W3YVQ, WB3FTQ,  
AA3SB, KC3HWU, AB3WG, NI2W, W3CB, KB3LFG

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## HF PROPAGATION

MEPN: Propagation was functional throughout July 2018. Conditions on MEPN between 1730L and 1800L are now typical of summer with poor signal strengths until after 1800L due to high daytime sun angles. By the end of the month the NVIS prop was remaining above 80M all night many nights. On 40M the prop beyond about 500 miles remained functional all night.

**Propagation on MDD early and late was functional throughout July 2018.**

Sunspot activity continued to decline with numerous spotless days. The sunspot activity was very low. Daytime absorption on HF reached typical summer high levels. Most disturbances to propagation were the result of

solar wind from solar coronal holes or simply lack of flux to keep the ionosphere charged. Numerous E layer formations were noted with openings world-wide on the higher bands including 6 Meters.

## BTN LOCAL NTS TRAFFIC AND TRAINING NET

the BTN continues to meet on 145.33/R (no tone) daily at 6:30PM local time and continues to welcome new amateurs. The availability of an active directed traffic net of the NTS on VHF is exactly why the BTN was established, providing a welcoming place for newcomers to the Amateur Service. Thanks to all the BTN stations checking into the MEPN via Echo link.

## MEPN ECHOLINK

MEPN representatives check for EchoLink check-ins starting at net call daily via the WB3GXW-L link node (or \*WASH\_DC\* conference node backup if the -L node is not available). A number of BTN and MEPN members, as well as stations outside the area, have used EchoLink to check in when HF is not available to them. Thanks to all.

## MSN CW TRAINING

Remember that the MSN provides CW training daily for newcomers to the mode, or those wishing to refresh their skills, daily at 7:30 PM on 3563 kHz. Each trainee works with an assigned instructor off the net frequency to receive radiograms containing training information. Instructors work with each student at their own desired speed and check-in schedule. All are encouraged to master the art of CW via this net or personal training to support and join the ranks of our MDD Section CW net. Robin, AA3SB, MDD NM, and the veteran staff, will be glad to help you advance to the evening CW full Cycle 4 of the NTS.

Thanks to all the Section traffic net NCS stations, DTN/RR1 and WL2K stations, liaisons, and traffic handlers for the continuing effort to keep the nets running and traffic moving.

Thank you for your continued support of MDC integrated ARES(r) and NTS operations.

73, W3YVQ, MDC ASM, STM  
w3yvq@arrl.net  
w3yvq@winlink.org

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**Technician License classes start  
Oct 6, 2018 at 8:30 am  
At the Anne Arundel Radio Club  
Davidsonville Family Recreation Center,  
Davidsonville MD.  
Registration on line or contact  
Keith Miller, AE3D  
AE3D@w3vpr.org**

# Anne Arundel Radio Club NEWS

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**

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## **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 Rick Steer AB3XX, testing@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.

## EVENT SCHEDULE

Thursday, September 6 7:30pm  
AARC - Club meeting, newcomers are always welcome.

Saturday, September 8 12:00pm  
AARC - Free License Exams

Thursday, September 13 7:30pm  
AARC - board meeting

Sunday, September 16 1:00pm  
AARC - Mesh Networking group, at 1 to 4 PM at the clubhouse

Thursday, September 20 7:30pm  
AARC - Club meeting, newcomers always welcome.

Saturday, September 22 1:00pm  
AARC club picnic / swap meet at the pavilion, 1 to 5 PM

Sunday, September 23 1:00pm  
AARC Kit-building, troubleshooting and repair, at 1 to 4 PM at the clubhouse

Sunday, September 30 6:00am  
AARC (support) Metric Marathon

# HAARP's WSPR Research Campaign Yields Hundreds of Reports on 40 and 80 Meters

08/13/2018

Just-completed research at the High-Frequency Active Auroral Research Program (HAARP) transmitters in Gakona, Alaska, successfully took advantage of the WSPR

digital protocol and the Weak Signal Propagation Reporter Network (WSPRnet) on July 30 through August 1. University of Alaska Fairbanks (UAF) Space Physics Group researcher and HAARP Chief Scientist Chris Fallen, KL3WX, told ARRL that the research



The HAARP WSPR spots map.

— HAARP's fourth research campaign under management of the University of Alaska Fairbanks — went well.

"My 'citizen science' experiments were funded by the National Science Foundation and were conducted for approximately 30 minutes at the end of each campaign day," Fallen told ARRL. "They consisted of 2-minute transmissions using the WSPR digital mode in the 40- and 80-meter bands, with a 2-minute off period between transmissions." He said HAARP transmitted in full-carrier, double-sideband AM because it does not have SSB capability. HAARP operated under its Part 5 Experimental license, WI2XFX, with Special Temporary Authority (STA) from the FCC to transmit on amateur bands.

"I systematically varied the HAARP transmission parameters, such as gain, net power, beam direction, and polarization, to see how they affected the reception reports collected in the [WSPRnet.org](http://WSPRnet.org) database," Fallen said. "During the 3 days, we gathered more than 300 confirmed reports of signal strength and location from nearly 100 unique participants throughout Canada and the US."

Fallen said the spots, collected along with the corresponding HAARP transmission parameters, are available online, (1) and (2). He said the spreadsheet at the second link is editable by the public, "specifically by citizen scientists who want to manually add their spot or other interesting data analysis," he added. "In this sense, the experiment continues."

He said that HAARP's low-elevation transmissions on 40 meters resulted in the greatest number of spots. "The



40-acre phased array antenna at HAARP, with its vertically oriented normal, is not designed for low-elevation transmissions, and so these directional experiments most

likely included significant grating lobes in the opposite directions," Fallen explained. "The most distant spot was

located at grid EL96xi, near Boca Raton, Florida, reported by W1NEJ, from a distance of 6,154 kilometers. Interestingly, HAARP was aimed in the magnetic west direction during that spot. Those grating lobes!" A grating lobe occurs when the signal is steered too far with a phased array and the main beam reappears on the opposite side.

Fallen said a few Alaskans participated in the test, and all spots from there were on 80 meters, with the exception of a single 40-meter spot reported by KL4IU, located near Fairbanks. "KL4IU used a [30 MHz turnstile antenna](#) recycled from the old Poker Flat Research Range imaging riometer, essentially a phased array HF receiver, that was destroyed by lightning many years ago," he said.

HAARP and the Arecibo Observatory in Puerto Rico are planning to conduct heating campaigns this fall, Fallen noted, although not at the same time, as experimenters are shared.

Funding agencies for the recent HAARP research campaign included the National Science Foundation, Air Force Research Laboratory, and the Office of Naval Research, with experimenters from the Naval Research Laboratory, Air Force Research Laboratory, Eastern Michigan University, Cornell University, Virginia Tech, and the University of Alaska Fairbanks.

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## ARRL 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 DEC's and EC's 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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### Meetings and Gatherings

Attended the Quarterly Local Emergency Planning Committee. The lengthy discussion centered around a very large Nat Cap Region Exercise involving NOVA, WDC and selected MD counties proposed for late Spring/early Summer time frame. No other details, as this is in the very early planning stages. Sounds like an enormous list of agencies and volunteer organizations may be involved. Standby or more.

Used with permission MDC Section News August 17, 2018

## Dave Popkin, W2CC/AAR2BU, Receives Presidential Lifetime Achievement Award

A New Jersey radio amateur and Military Auxiliary Radio System (MARS) member has received a Lifetime Achievement Award from President Donald Trump. ARRL Charter Life Member Dave Popkin, W2CC/AAR2BU, was recognized for his extraordinary contributions as a MARS volunteer.



"On behalf of a grateful nation, I thank you for your lifetime of service to your fellow Americans and those most in need," President Trump said. "Through at least 4,000 hours of service, you have ensured the continuation of America's unparalleled commitment to improving the lives of others.

You have served as a model of the American spirit. Your many hours of service have strengthened the bonds of cooperation and trust that bring people together, while helping to address some of the greatest challenges of our time."

MARS Region 2 Director Carver Washburn, W2TFM/AAA2RD, said Popkin's "long and distinguished" history as a volunteer extends over 56 years with US Army MARS, averaging some 2,000 hours a year.

"Dave is particularly noted for his MARS leadership roles, mentoring, and training initiatives," Washburn noted. "It all started with his inspiration and his motivation to take positive action that, to this day, has fundamentally enhanced the ability of [the Department of Defense] to achieve its goals under the most dire of circumstances, such as occurred in Puerto Rico during Hurricane Maria in September 2017."

Washburn said Popkin served as net control for MARS radio nets in Region 2, and has served as MARS New Jersey State Director.

"Also evident were his unique talents to train and mentor these team members, substantially expanding the strength of the organization," Washburn said. "Dave made a difference in innovative ways through this role. He worked on the HQ senior staff for many years as well. Chief Army MARS Paul English and I are most grateful for his long and valued MARS service."



Dave Popkin, W2CC, with his Presidential Lifetime Achievement Award.

A former FCC field inspector who also served as an ARRL Official Observer, Popkin has made similar contributions to Amateur Radio, Washburn said, citing Popkin's years of

leadership with the New Jersey Phone Net and with the Englewood Cliffs (New Jersey) Amateur Radio Club's ARRL Field Day operation. Read [more](#). -- Thanks to Carver Washburn, W2TFM/AAA2RD

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## ARISS Packet Radio System Expected to be Back Late this Year

The currently silent packet radio system on the International Space Station could be back on the air by year's end. Amateur Radio on the International Space Station (ARISS) hardware team members have located an original duplicate of the packet module that had been in use on the International Space Station (ISS) before failing more than a year ago, after 17 years of service. With a new battery installed, the unit was tested and found to be functioning. The ARISS packet system in the space station's *Columbus* module, operating on 145.825 MHz, quit last July after first experiencing some problems. All necessary paperwork has been completed to manifest the packet module on the Progress 71P spacecraft launch now set for Halloween, with docking on November 2.

"Installation date will depend on the crew's busy schedule, but ARISS hopes packet can be online again by the end of November 2018," ARISS said this week in a news release. ARISS said it's heard from "many hams" who have been asking when the packet system will be back on the air.



When the ARISS packet module aboard ISS died last year, the ARISS hardware team was already overburdened with the design and safety certification of the new interoperable radio system ARISS has been developing, which is set for launch next year. The team did attempt some basic troubleshooting of the old packet module, but was unable to revive it and decided instead to dedicate all of its time to the new replacement radio system, including packet capability.

Early this year, thermal testing of the first flight-identical power supply for the new comprehensive radio system showed that some changes to air flow were needed. This change would delay launch of the new radio equipment from late 2018 to early 2019.

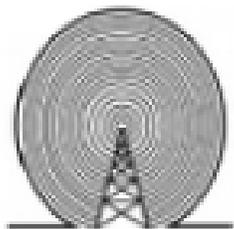
To contribute to the ARISS radio fund, visit the ARISS website and click on the "[Donate](#)" button.

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**The Anne Arundel Radio Club is a registered 501C3 charity. We are pleased to receive any donations over your yearly dues.**

## AARC Two-Meter Net Controller Schedule — 2018



01/03/18	KB3ZYO	Rich	07/04/18	K3MAW	Mike
01/10/18	KB3MUV	Raven	07/11/18	AA3EB	Ed
01/17/18	K3ACT	Chuck	07/18/18	KB3ZYO	Rich
01/24/18	W3KNH	Jamison	07/25/18	KB3MUV	Raven
01/31/18	KB3YQK	Tim			
			08/01/18	K3ACT	Chuck
02/07/18	K3MAW	Mike	08/08/18	W3KNH	Jamison
02/14/18	AA3EB	Ed	08/15/18	KB3YQK	Tim
02/21/18	KB3ZYO	Rich	08/22/18	K3MAW	Mike
02/28/18	KB3MUV	Raven	08/29/18	AA3EB	Ed
03/07/18	K3ACT	Chuck	09/05/18	KB3ZYO	Rich
03/14/18	W3KNH	Jamison	09/12/18	KB3MUV	Raven
03/21/18	KB3YQK	Tim	09/19/18	K3ACT	Chuck
03/28/18	K3MAW	Mike	09/26/18	W3KNH	Jamison
04/04/18	AA3EB	Ed	10/03/18	KB3YQK	Tim
04/11/18	KB3ZYO	Rich	10/10/18	K3MAW	Mike
04/18/18	KB3MUV	Raven	10/17/18	AA3EB	Ed
04/25/18	K3ACT	Chuck	10/24/18	KB3ZYO	Rich
			10/31/18	KB3MUV	Raven
05/02/18	W3KNH	Jamison	11/07/18	K3ACT	Chuck
05/09/18	KB3YQK	Tim	11/14/18	W3KNH	Jamison
05/16/18	K3MAW	Mike	11/21/18	KB3YQK	Tim
05/23/18	AA3EB	Ed	11/28/18	K3MAW	Mike
05/30/18	KB3ZYO	Rich			
06/06/18	KB3MUV	Raven	12/05/18	AA3EB	Ed
06/13/18	K3ACT	Chuck	12/12/18	KB3ZYO	Rich
06/20/18	W3KNH	Jamison	12/19/18	KB3MUV	Raven
06/27/18	KB3YQK	Tim	12/26/18	K3ACT	Chuck

## 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

<b>Name</b>	<b>Frequency</b>	<b>Day</b>	<b>Time</b>
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

# 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.

*- adapted from the original Amateur's Code, written by Paul M. Segal, W9EEA, in 1928The Radio Amateur's Code*