



# *The Anne Arundel Radio Club*

# ANNUAL SALE

## **AMATEUR RADIO EQUIPMENT SALE**

Thursday, April 4th, 2019, 7:30pm

**at the AARC Club House in Davidsonville, MD.**

Once a year the AARC sells off all it's consigned and excess equipment.

**That time is NOW!!!**

Anyone can attend and purchase equipment.

Non-AARC members will be charged

**A \$5.00 DONATION FEE AT THE DOOR**

(AARC members are admitted free).

*Check [www.w3vpr.org](http://www.w3vpr.org) for  
Directions,  
Sale procedure, and a  
Listing of the  
more than 75 items being sold  
for cash, check or credit card.*

***All equipment is sold on an 'as is, where is' basis.***

Questions should be directed to:

[club.sale@w3vpr.org](mailto:club.sale@w3vpr.org)

or 410-693-2723.



## "Tyro" License Proposal Open for Comment

The same day that the FCC put ARRL's Technician Enhancement petition on public notice, it also invited comments on another [proposal](#), designated RM-11829, asking the FCC to create a "Tyro" license class that would require a minimal online examination and require mentoring by an Amateur Radio licensee of Technician class or higher. A "tyro" is a novice or a beginner. The petition was filed in August of 2017 by Gary A. Hampton, AD0WU, of Longmont, Colorado. Tyro licensees would earn operating privileges on 99 channels in a 70-centimeter "TyroSubBand." Applicants would have to be at least 11 years old. Hampton said in his petition that one goal would be "reliable, nationwide 70-centimeter interoperability" in the exclusive 430 - 440 MHz segment of the band.



"The Tyro license is exceptionally important to FEMA's CERT program," Hampton's petition asserts. "It allows ARES to solve CERT's communication problems. The TyroSubBand technical specifications easily double the capacity of typical 70-centimeter repeaters..."

Hampton maintained in his petition that Amateur Radio also "should be used to further scientific research that is published and quickly placed in the public domain."

Hampton expressed the belief that institution of the Tyro license would spawn growth within Amateur Radio, making entry into the hobby nearly as simple as obtaining a General Mobile Radio Service ([GMRS](#)) license.

The window for comments on the Tyro license petition is open for 30 days.

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## FCC Takes a New Tack in Combatting Unlicensed Radio Broadcasting

In what may be a first in the effort to crack down on unlicensed broadcasters, the United States has filed a civil action to stop a church-related pirate radio station from operating in Worcester, Massachusetts. The Massachusetts US Attorney's Office is seeking an injunction to shut down the station, operating on 97.1 MHz.



"This groundbreaking step, for an injunction to stop a pirate radio operator's illegal activities, is part of our continued efforts to combat illegal broadcasting," FCC Enforcement Bureau Chief Rosemary Harold said this week. "As we work with our law enforcement colleagues to use

every tool in our toolbox to combat pirate radio, I welcome the Justice Department's renewed use of its Section

401(a) injunction authority. Along with fines, equipment seizures, and warnings, this action underlines our continued interest in combatting this serious problem."

The FCC already has fined operator Vasco Oburoni and Christian Praise International Church \$15,000 for repeated violations of its rules against unlicensed operation. The complaint recounts that Oburoni and the church first began operating an unlicensed station in Worcester on 102.3 MHz. After issuing multiple warnings, the FCC levied the \$15,000 penalty, and Oburoni agreed to a payment plan. But later, he began broadcasting again, this time on 97.1 MHz. At least one licensed broadcaster has complained to the FCC, citing interference concerns.

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## Technical Paper Raises Visibility of Wireless Power Transmission Interference Potential

A [technical paper](#) drafted by International Amateur Radio Union Region 1 ([IARU-R1](#)) President Don Beattie, G3BJ, is the latest official step to increase the visibility of wireless power transmission (WPT) systems' interference threat to Amateur Radio. Submitted to the IARU-R1 Interim Meeting, set for April 27 – 28 in Vienna, the paper will update relevant committees on the topic. Beattie's paper offers an impact analysis of WPT-electric vehicle (WPT-EV) systems on Amateur Radio communications, with a primary focus on WPT systems operating in the 79 – 90 kHz range.



"IARU engaged with discussions in [CEPT](#) [the European Conference of Postal and Telecommunications Administrations] and [ITU](#) [the International Telecommunications

Union] on WPT in 2017," Beattie's 20-page discussion notes.

Beattie's paper warns of "a widespread and serious impact on radio communications operating in the vicinity" of WPT systems if spurious emissions measured at a distance of 10 meters are at current [CEPT Recommendation 74-01E](#) and ITU Radiocommunication Sector [Recommendation SM.329-12](#) limits, "given the planned density of WPT-Electric Vehicle Systems." Both the CEPT and ITU recommendations address "unwanted emissions in the spurious domain."

An IARU study of WPT-EV and its potential impact on radiocommunications services already has been submitted to the relevant ITU and CEPT study committees. "In CEPT, the IARU input has been carried forward in the recently published [ECC Report 289](#)," Beattie said in his paper. Broadcasters, land mobile services, and others have also expressed concern about spurious WPT-EV emissions. "Report 289 sets out the protection requirements for these radio services, but it

stops short of proposing any regulatory action,” Beattie’s paper points out. “This, therefore, is the next challenge — to seek to bridge the divide between WPT manufacturers and the radiocommunications services.”

Beattie’s paper said further work remains regarding generic WPT systems such as cell phone charging, power tools, and household appliances. “As a part of this, manufacturers have offered projections on the installed density of these devices, which allows modeling of the minimum interference field strength to be expected in an urban/suburban environment populated with WPT devices at the projected density,” Beattie noted in his paper. “This then allows IARU to make further input modeling these emissions.”

IARU provided the same input to ITU, but, Beattie’s paper says, ITU plans to include it in a separate report for discussion at a later meeting.

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## Demand is High as New ARRL Introduction to Emergency Communications Courses Open

The ARRL Lifelong Learning Department has launched a revised and updated *Introduction to Emergency Communications* (EC-001) course, and demand to sign up is prompting the recruitment of additional course mentors to expand the schedule. [Registration](#) just opened for the first of four EC-001 online sessions, which will run from Monday, April 1, until Friday, May 31.



“The demand for this course has exceeded our projections, and the four sessions scheduled for 2019 are already filling quickly,” ARRL

Lifelong Learning Manager Kris Bickell, K1BIC, said. “This course is designed to be interactive with mentors guiding each session, so we’re seeking additional mentors and will schedule more course sessions as quickly as possible. Thanks for your patience as we expand capacity for this updated version of EC-001.” Bickell is developing a notification list to alert those who didn’t get into the first round of courses when a new round of sessions becomes available.



The new EC-001 course has been beta-tested by course mentors and transferred into a new online learning platform. With the

**ARRL Lifelong Learning Manager Kris Bickell, K1BIC.**  
[Michelle Patnode, W3MVP, photo]

closing last year of the Connecticut Distance Learning Consortium (CTDLC), EC-001 lost its virtual home and was taken offline. At that point, the ARRL Emergency Preparedness and Lifelong Learning teams started exploring short- and long-term alternatives to offer the course. After careful evaluation and review, a decision was made to move the course to a more modern learning management system called Canvas, which will be used while the new Lifelong Learning Initiative program is under development. EC-001 will eventually become a part of a comprehensive online learning environment.

***EC-001 is designed to provide basic knowledge and tools for emergency communications volunteers. With the online format, students can access the course at anytime from anywhere.***

“We’re very excited to be able to offer *Introduction to Emergency Communications* EC-001 once again,” Bickell said. “The Emergency Preparedness staff here has been incredibly helpful as we’ve worked together to get the course back up and running. Input from previous EC-001 mentors has been an invaluable part of the testing phase. The timing is right to put the course back online.”

EC-001 is designed to provide basic knowledge and tools for emergency communications volunteers. With the online format, students can access the course at anytime from anywhere during the 9-week period and may work at their own pace and on their own schedule. As in the past, students will be able to register and take the course entirely online. The Canvas platform is also mobile-responsive, meaning that students can view the course materials, interact with fellow students, and complete assignments from any mobile device.

Individual EC-001 sessions will serve up to 30 students, supported by an experienced mentor. Courses are free of charge. To be eligible, students must meet certain prerequisites, listed on the [registration page](#). The registration page includes the entire 2019 schedule of EC-001 sessions.

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## More Mentors Needed for New ARRL Emergency Communications Course Sessions

High interest in the recently announced updated ARRL Introduction to Emergency Communications (EC-001) course is prompting a call for additional class mentors to help meet the demand, which ARRL Lifelong Learning Manager Kris Bickell, K1BIC, says “exceeded our projections.” As Bickell explains, the course is designed to be interactive, with volunteer mentors guiding each session.

“We appreciate the work of the mentors to make EC-001 an interactive experience for the participants. The real-world emergency communications experience they bring to the course is very important to the learning process,” Bickell said. “We look forward to bringing in more mentors to help ARRL expand the reach of this

valuable emergency communications training." Bickell has developed a waiting list for prospective EC-001 students, who will be notified as additional sessions are scheduled.

The EC-001 course covers the broad range of radio communication technologies, communication techniques, and emergency management skills necessary in helping served agencies respond to and recover from disasters.

EC-001 mentors should be ARRL members and active, experienced General class or higher Amateur Radio licensees, and at least 18 years old. Mentors should have experience in public service communication and in Amateur Radio Emergency Service (ARES) activities and come with the recommendation of their Section Managers.

In addition to the EC-001 course, prospective mentors should have completed [ICS 100, 200, 700, and 800](#); the [FEMA Professional Development Series](#), and National Weather Service [SKYWARN®](#) training. Professional experience in emergency response or communication and as a trainer or educator is desirable, with interest or experience in distance learning. Candidates should possess sufficient computer skills, be able to interact with online-course students and with other mentors, and be able to maintain adequate computer equipment.

Appointment as an ARRL Field Instructor or as a mentor for the ARRL Public Service Communications training program is for 3 years, renewable based on satisfactory performance as an active instructor/mentor and the successful fulfillment of all current qualifications and requirements.

Field Instructors and mentors are expected to maintain their qualifications and adhere to all guidelines and standards of conduct for volunteers representing ARRL.

[Apply online](#) to become an ARRL mentor. For more information, contact ARRL Emergency Preparedness Assistant [Ken Bailey, K1FUG](#), (860) 594-0227.

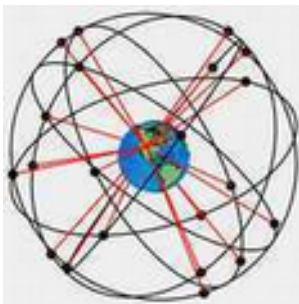
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## GPS Network May Experience Errors in "Week Number" Rollback

The GPS network will encounter a small millennium bug of its own in April when the network's "week number" rolls back to zero. This known issue especially could affect those who use GPS to obtain accurate Coordinated Universal Time (i.e., UTC). In the GPS network, the number of the current week is encoded into the message the GPS receives using a 10-bit field. This allows for weeks ranging from zero to 1023. The current period began on August 1, 1999. On April 6, 2019, the week number rolls over to zero and starts counting back up to 1023.

This should not affect later-model GPS receivers



that conform to IS-GPS-200 and provide UTC, but testing carried out by the US Department for Homeland Security (DHS) raised the possibility that some units may misinterpret the rollover, shifting the date back to January 6, 1980, or possibly to another incorrect date. An affected GPS not only may report the incorrect date, but time accuracy that is critical to precise location data could be compromised. A nanosecond error in GPS time can equate to 1 foot of position (ranging) error, according to [DHS-published guidelines](#) that explain the issue and suggest how to address it.

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## Scammers Exploiting Gmail "Dot" Accounts

Business technology news website ZDNet [reported recently](#) that scammer groups are exploiting so-called Gmail "dot accounts" for online fraud. A lesser-known characteristic of Gmail is that it ignores the dot character within Gmail addresses. "Dots don't matter in Gmail addresses," a Gmail Support response explains. "If someone accidentally adds dots to your address when emailing you, you'll still get that email." Google pointed out, though, that if you use Gmail through work, school, or other organization (such as yourdomain.com or yourschool.edu), dots **do** change your address. ZDNet says crooks use "dotted" Gmail addresses to file fraudulent claims for unemployment benefits and fake tax returns, and to circumvent trial periods for online services. [More recently](#), someone exploited dotted Gmail accounts to trick Netflix account holders into adding credit card details to scammers' accounts, registered with the user's dotted Gmail address. A legitimate "update your card details" Netflix email would arrive in a real user's inbox, who would then unknowingly update a scammer's account instead of their own.

The ZDNet article cited a [report](#) from the security firm Agari, which said criminal groups took advantage of dotted Gmail addresses to, among other things, file multiple credit card applications with financial institutions. Crane Hassold, Agari's Senior Director of Threat Research, told ZDNet, "In essence, this allows cybercriminals to centralize their fraudulent activity within a single Gmail account, rather than having to monitor a bunch of different accounts, increasing the efficiency of their operations."

Two other Gmail characteristics that scammers could abuse: A Gmail address such as <username>+<randomword>@gmail.com will always redirect emails back to <username>@gmail.com. Also, all emails addressed to <username>@googlemail.com will arrive at <username>@gmail.com.

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# Upcoming SKYWARN® Classes

These classes are free and open to the public!

CLASS	DATE	TIME	COUNTY	LOCATION	REGISTRATION
<b>Basic Classes</b>					
Basic	Wednesday 04/03/2019	7pm - 9pm	Culpeper	Culpeper County Office of Emergency Services 14022 Public Safety Court Culpeper, VA 22701	<a href="https://www.eventbrite.com/e/skywarn-basics-culpeper-county-tickets-56511595704">https://www.eventbrite.com/e/skywarn-basics-culpeper-county-tickets-56511595704</a>
Basic	Thursday 04/04/2019	6:30pm - 8:30 pm	Anne Arundel	Anne Arundel County Office of Emergency Management 7480 Baltimore Annapolis Boulevard Glen Burnie, MD 21061	<a href="https://www.eventbrite.com/e/skywarn-basics-anne-arundel-county-tickets-57749580550">https://www.eventbrite.com/e/skywarn-basics-anne-arundel-county-tickets-57749580550</a>
Basic	Friday 04/05/2019	6:30 pm - 8:30 pm	Pendleton, WV	Franklin Community Building (Activity Room) 335 Mill Road Franklin, WV 26807	<a href="https://www.eventbrite.com/e/skywarn-basics-pendleton-county-tickets-58377566874">https://www.eventbrite.com/e/skywarn-basics-pendleton-county-tickets-58377566874</a>
Basic	Tuesday 04/16/2019	7pm - 9pm	Loudoun	Loudoun County Fire and Rescue Training Center 16600 Courage Court Leesburg, VA 20175	<a href="https://www.eventbrite.com/e/skywarn-basics-loudoun-county-tickets-58291247691">https://www.eventbrite.com/e/skywarn-basics-loudoun-county-tickets-58291247691</a>
Basic	Thursday 04/25/2019	6pm - 8pm	St. Mary's	Chesapeake Building 41770 Baldrige Street Leonardtown, MD 20650	<a href="https://www.eventbrite.com/e/skywarn-basics-st-marys-county-tickets-56381693162">https://www.eventbrite.com/e/skywarn-basics-st-marys-county-tickets-56381693162</a>
<b>Flood Classes</b>					
Flood	Wednesday 04/03/2019	6:30pm - 9pm	Albemarle	5th Street Albemarle County Building 1600 5th Street Charlottesville, VA 22902	<a href="https://www.eventbrite.com/e/skywarn-flooding-albemarle-county-tickets-56379168611">https://www.eventbrite.com/e/skywarn-flooding-albemarle-county-tickets-56379168611</a>
Flood	Thursday 04/18/2019	6pm - 8:30pm	Madison / Greene	Madison Fire Station 1223 N Main Street Madison, VA 22727	<a href="https://www.eventbrite.com/e/skywarn-flooding-madison-greene-county-joint-class-tickets-56379882747">https://www.eventbrite.com/e/skywarn-flooding-madison-greene-county-joint-class-tickets-56379882747</a>
Flood	Thursday 04/25/2019	6:30pm - 9pm	Charles	Charles County Government Building Commissioners Meeting Room 200 Baltimore Street La Plata, MD 20646	<a href="https://www.eventbrite.com/e/skywarn-flooding-charles-county-tickets-57442278401">https://www.eventbrite.com/e/skywarn-flooding-charles-county-tickets-57442278401</a>
<b>Tropical Classes</b>					
Tropical	Monday 05/06/2019	7 pm - 10 pm	Prince George's	Prince George's County Office of Emergency Management 7915 Anchor Street Landover, MD 20785	<a href="https://www.eventbrite.com/e/skywarn-tropical-prince-georges-county-tickets-56982397886">https://www.eventbrite.com/e/skywarn-tropical-prince-georges-county-tickets-56982397886</a>
<b>Additional classes are still being scheduled. Please check back soon!</b>					

**Kurt Fritsch WA3TOY AAE14**  
A.A. Co. Skywarn Subnet Coordinator





## W1AW 2019 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 50.350 147.555  
 DIGITAL: - 3.5975 7.095 14.095 18.1025 21.095 28.095  
 50.350 147.555  
 VOICE: 1.855 3.990 7.290 14.290 18.160 21.390 28.590  
 50.350 147.555

### 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 93 in the March 2019 issue of QST or on the web at, <http://www.arrl.org/w1aw-operating-schedule>.

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## AARC Mesh Networking Group

*1:00 to 4:00 PM monthly,  
on the 3rd Sunday of the month  
AARC Clubhouse, Davidsonville, MD  
(Next Meeting will be April 21, 2019.)*

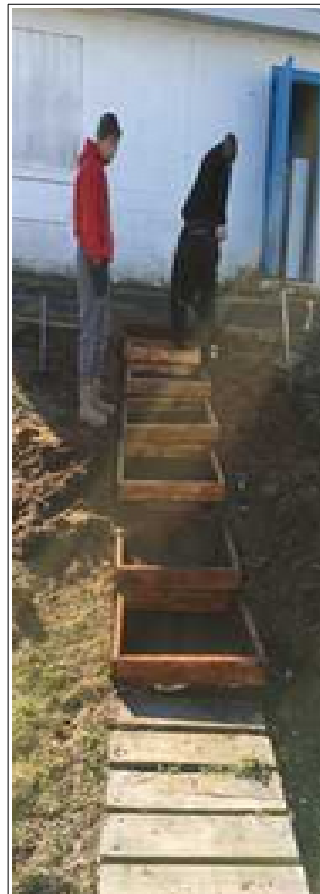
## Eagle Project at Clubhouse

Four people worked on the project.

From the left to the right is Eric Berman, AARC Director, Michael Mantzerranus (Eagle Candidate), Eugene Nagant (Life Scout), Gary Bolton (Eagle Coach).

73

Eric Berman, KC3GDV  
Anne Arundel Radio Club



*Great Job Scouts.*

*This is a great addition to the safety of our buildings.*

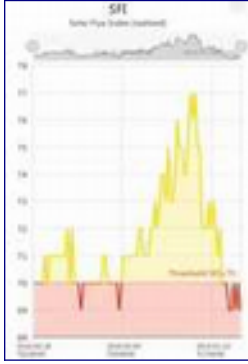
*Thank you very much for brand new stairs to our buildings.*

*The Officers and Board of the Anne Arundel Radio Club*



## Build Your Own Space Weather Dashboard

NOAA's Space Weather Prediction Center ([SWPC](#)) has started adding a variety of space weather data in the open-standard JavaScript Object Notation (JSON) format, and the SWPC site provides a [root directory](#) for format data. Digital visualization library [amCharts](#) specializes in JavaScript charts and maps for dynamic data display.



A free amCharts license is available in exchange for including a product mention. Jan van den Berg, PA2P, suggests combining NOAA's data with amCharts. Other providers of free charts include [Google Charts](#) and [Chart.js](#).

Van den Berg offers [more information and examples](#) on his website. [Contact](#) him for additional information.

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## How to Clean Up after a Battery Leak

Many hams have had the unfortunate experience of old batteries leaking in a piece of gear or a flashlight, creating a mess. Business technology news site ZDNet recently [offered its procedure](#) for cleaning it up. The brief online presentation recommends taking some precautions about coming in contact with the white discharge -- specifically potassium hydroxide in the case of alkaline cells, a caustic irritant. An old toothbrush or something similar can start the project, along with a small scraper, and cotton swabs dipped in water. Start by removing and properly disposing of the bad cells and then brushing out the worst of the material -- preferably outdoors or over a container to catch the remnants.



The article advises against using any sort of acid such as vinegar or lemon juice, lest it cause corrosion problems of its own. It suggests a fiberglass scratch brush for scrubbing the battery compartment contacts clean, although other tools may work as well. Deoxit D5 or similar contact cleaner also comes in handy, with a tiny dab of dielectric grease or silicone paste as a finishing touch to inhibit future corrosion if a leak occurs. Other tips to head off problems down the road include using only name-brand batteries, avoiding mixing old and new batteries, removing batteries from devices not in use, avoiding exposing batteries to extreme heat or cold, and minding battery expiration dates.

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## Amateur Radio Volunteers Activate Following California Flooding

Amateur Radio volunteers with the Sonoma County, California, Auxiliary Communications Service ([ACS](#)) rallied to assist in February after heavy rain led to flooding in the region. San Francisco Section Manager Bill Hillendahl, KH6GJV, told ARRL that while no actual communication emergencies occurred during the weather event, Sonoma County ACS volunteers provided "needed eyes" and were available in case further assistance was needed. Sonoma County ACS Radio Officer Dan Ethen, WA6CRB, said heavy rainfall on fire-scarred areas resulted in flooding along the Russian River.

"During February, the Sonoma County Auxiliary Communications Service activated, providing communication services to the Sonoma County Fire and Emergency Services Department," Ethen reported. "On February 13 and 14, ACS



volunteers staffed the Sonoma County Operational Area Emergency Operation Center. Mobile ACS Field Units were assigned to patrol the burn-scar areas that were a result of the Complex Fire Storm in October of 2017."

"All-Hazard Road Patrols" observed and reported downed powerlines and trees, mud[slides] and landslides impacting traffic flow, and debris issues that posed problems with water drainage and road flooding," Ethen said.

From February 26 - 28, ACS Volunteers staffed the Sonoma County Operational Area Emergency Operations Center (EOC) and the Graton Fire Incident Command Post (ICP). They provided back-up communication capability between the EOC and ICP to support the evacuation of residents in the Russian River flood area. Sonoma County recommended on February 26 that residents living near the Russian River evacuate, after the river was forecast to crest at nearly 46 feet by the following evening.

ACS volunteers continued "All-Hazard Road Patrols" while operating on the countywide 2-meter repeater system. "Mobile patrol units were also tracked on APRS and visible to the EOC radio operators to ensure safety and accurate location reporting of any observed hazards," Ethen said.

"ACS volunteers remain ready to serve their communities," Ethen said. "We currently have 131 dedicated and trained communication volunteers focused on supporting our communities throughout Sonoma County."

Sonoma County ACS supplements government disaster communication on a volunteer basis. It is a part of local government and operates under the authority of the Sonoma County Fire and Emergency Services







## W3VPR Tower Repair

Ed Santili, KB3YMU was kind enough to take the pictures. That is David Rawley, N3AT on the tower. Mark Bova, W2PAW and Rich Grace, KB3ZYO were on the roof. Jim Wallace, N3ADF and Tim Nagel, KB3YQK were ground crew (not in picture). Great teamwork.



## 3Y0I DXpedition Team Reports It has Departed for Bouvet Island

The [3Y0I](#) Bouvet Island DXpedition website has [announced](#) that the team of operators — led by Polish DXpeditioner Dom Grzyb, 3Z9DX — set sail on March 19 from Cape Town, South Africa, for the remote Antarctic



island on board the MV *Atlantic Tuna*.

“The 3Y0I Bouvet Island Expedition has

officially begun,” the announcement said. “If everything goes well, we should reach Bouvet in 7 days around March 26. Landing on the Island will be strictly dependent on weather conditions met upon arrival.”

According to the website, 3Y0I could be on the air by the end of March but notes that the information is subject to change, noting the vagaries of sea and weather conditions. “The team plans to stay at the island at least for 2 weeks, with an option to extend the stay to 3 – 4 weeks, if weather and other factors permit,” the announcement said. “We will sign as E51DOM/mm on the way to and back from the island.” The announcement invited anyone interested to [track the vessel](#).

“Stay tuned for further updates and cross fingers for us, the announcement concluded. “History has begun!”

The DXpedition has enlisted the assistance of noted DXers Martti Laine, OH2BH; Wayne Mills, N7NG, and Yasu Inoue, JR1AIB, to serve as “ambassadors” for the DXpedition, sponsored by the [Rebel DX Group](#).



“This is a historical undertaking under very severe conditions with no DX Foundation support nor involvement,” their announcement said. “One of their objectives is for bringing the cost down to affordable level for more people.”

Unlike the unsuccessful 3Y0Z DXpedition, which reached Bouvet Island but [was unable to land](#) because of sea conditions and a mechanical problem with the vessel, the 3Y0I operators plan to land using Zodiac inflatable vessels. “The budget of 3Y0I is about 200,000 USD, and it [will] not utilize weather sensitive and expensive helicopters,” the announcement said.

3Y0I will attempt to produce a workable signal on 160 and 80 meters in the challenging Bouvet Island environment. “Dom has detailed experience on the Zodiac landing on Bouvet, while Tack, JE1CKA — a WRTC-rated contester and seasoned DXpedition operator — is now in charge of the low-bands. Tack has excellent field knowledge for creating powerful low-band signals,” the announcement said.



## AARC STAFF – 2019 Officers

<b>President</b>	Keith Miller / AE3D president@w3vpr.org	240 758 0423
<b>Vice President</b>	Tim Nagel / KB3YQK vice.president@w3vpr.org	
<b>Secretary</b>	Steve Grimaud / W3SWG secretary@w3vpr.org	
<b>Treasurer</b>	Bill Mooney / KA3UQQ treasurer@w3vpr.org	
<b>Director A</b>	Eric Berman / KC3GDV eric.board19@w3vpr.org	
<b>Director B</b>	Larry Booth / AA3AU larry.board19@w3vpr.org	
<b>Director C</b>	Bernie Coletta / NK3PS bernie.board19@w3vpr.org	

### Support Staff

<b>Membership Secretary</b>	Jim Wolfe / NA3C membership.secretary@w3vpr.org	
<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>	Bruce Strackbein / WR3Q fox.hunt@w3vpr.org	
<b>Joint 440 Comm</b>	Gordon Davids / WJ3K joint440@w3vpr.org	410 647 2956
<b>MD Slow Net</b>	Bruce Stewart / W8CPG chickenfarm9@gmail.com	
<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>	Scott Rasmus / KC3BFW networking@w3vpr.org	240 758 0463
<b>Facilities</b>	Eric Berman / KC3GDV facilities@w3vpr.org	
<b>Field Day</b>	(TBD) field.day@w3vpr.org	
<b>Station Manager</b>	Rick Steer / AB3XJ	

ham.shack.coordinator@w3vpr.org

#### Ham Shack Renovation

Jamison Phipps / W3KNH  
ham.shack.renovation@w3vpr.org

#### Holly Net

Jim Wallace / N3ADF  
holly.net@w3vpr.org  
(TBD)

#### HSMM-MESH

hsmm.mesh@w3vpr.org

#### Kit building & Repair

'Raven' Weiland / KB3MUV 203 948 5369  
kit@w3vpr.org

#### MDC QSO Party

Jim Wallace / N3ADF 301 538 6233  
mdcqsop@w3vpr.org

#### Newsletter

Milford Craig / N3WYG 301 218 8867  
newsletter@w3vpr.org

#### Packet Radio

Jonathon Grafe / AE2JG 240 426 2664  
packet@w3vpr.org

#### Program

Tim Nagel / KB3YQK  
vice.president@w3vpr.org

#### Public Service

Erick Graves / WA3G 410 987 7670  
public.service@w3vpr.org

#### Repeater Ops

John Williams / K8JW 410 647 7406  
repeaters@w3vpr.org

#### Rules

Chuch Tanner / K3ACT 301 464 2667  
rules@w3vpr.org

#### Service Hours

Jim Wallace / N3ADF 301 538 6233  
service.hours@w3vpr.org

#### Tower

(TBD)  
tower@w3vpr.org

#### Training 0423

Keith Miller / AE3D 240 758  
training@w3vpr.org

#### VE Team

David Rawley / AE5Z  
testing@w3vpr.org

#### Webmaster

Mark Bova / W2PAW 240 274  
webmaster@w3vpr.org

#### Wed. Nite Net

Jamison Phipps / W3KNH  
wednesday.night.net@w3vpr.org

#### Winter Field Day

Rick Steer / AB3XJ  
winter.field.day@w3vpr.org

### Groups

#### Board of Directors

board19@w3vpr.org

#### Kit Building Committee

kitbuilding@w3vpr.org

#### Rules Committee

[rules.com@w3vpr.org](http://rules.com@w3vpr.org)

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## VE Testing Schedule

**Second Saturday of each month –**

**Noon – AARC –**

**Rick Steer / AB3XJ [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)**

## 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
<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.*

## 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.