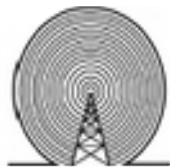


# The Ham Arundel News



Providing Fellowship and Community Service through Amateur Radio Since 1951

August 2017

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

## Filed Day June 2017 photos by Ed Santorini, KB3YMU



## WWV 25 MHz Signal Swapped to Circular Polarization, Reception Reports Invited

The resurrected 25 MHz signal of time and frequency standard station [WWV](#) is now emanating from a circularly polarized turnstile antenna. WWV had used a vertically polarized antenna on 25 MHz in the 1970s. Silent since 1977, the 25 MHz signal returned to the air on an "experimental basis" in April 2014, and it's been transmitting ever since -- initially on a broadband discone until August 2015, when it switched back to a vertical, which it used until the July 7 switch to circular polarization.

"[W]e are broadcasting with 2 kW from a circularly polarized turnstile antenna," WWV lead electrical engineer Matt Deutch, N0RGT, told ARRL this week. "It is just your standard plain-vanilla turnstile -- two horizontal orthogonal dipoles with a quarter-wave phase-shifting coax linking them."

When the 25 MHz transmitter was shut down in 1977, the antenna's radiating element was "tossed in the bone yard, and a new, longer section put on the tower to make it a 15 MHz standby antenna," Deutch has recounted. When WWV first reintroduced the 25 MHz broadcast some 37 years later in response to requests, it used a broadband monopole. But, it was later decided to use that antenna for WWV's 2.5 MHz standby transmitter and to rebuild the 25-MHz antenna. The old radiating section was retrieved, and the antenna rebuilt so that it looked like what was being used in 1977.

Deutch said it's hoped that the latest antenna change to circular polarization might be helpful to anyone studying propagation during next month's total solar eclipse, which will be visible across the US. "My effort right now is focused on getting the word out, just to make people aware that [the 25 MHz signal] is available, if it can be useful to them."

Located in Fort Collins, Colorado, WWV is operated by the National Institute of Standards and Technology ([NIST](#)). WWV has [invited](#) listeners' comments and reports on its 25 MHz signal.

Used with permission The ARRL Letter for July 13, 2017



The WWV 25 MHz turnstile antenna.  
[Matt Deutch, N0RGT, photo]





## W1AW 2017 Spring/Summer Operating Schedule

ARRL Bulletin 11 ARLB011

>From ARRL Headquarters Newington CT March 13, 2017  
To all radio amateurs

### Morning Schedule:

Time	Mode	Days
1300 UTC (9 AM ET)	CWs	Wed, Fri
1300 UTC (9 AM ET)	CWf	Tue, Thu

### Daily Visitor Operating Hours:

1400 UTC to 1600 UTC - (10 AM to 12 PM ET)  
1700 UTC to 1945 UTC - (1 PM to 3:45 PM ET)

(Station closed 1600 to 1700 UTC (12 PM to 1 PM ET))

### Afternoon/Evening Schedule:

2000 UTC (4 PM ET)	CWf	Mon, Wed, Fri
2000 "	CWs	Tue, Thu
2100 " (5 PM ET)	CWb	Daily
2200 " (6 PM ET)	DIGITAL	Daily
2300 " (7 PM ET)	CWs	Mon, Wed, Fri
2300 "	CWf	Tue, Thu
0000 " (8 PM ET)	CWb	Daily
0100 " (9 PM ET)	DIGITAL	Daily
0145 " (9:45 PM ET)	VOICE	Daily
0200 " (10 PM ET)	CWf	Mon, Wed, Fri
0200 "	CWs	Tue, Thu
0300 " (11 PM ET)	CWb	Daily

### Frequencies (MHz)

**CW:** 1.8025 3.5815 7.0475 14.0475 18.0975 21.0675  
28.0675 147.555

**DIGITAL:** - 3.5975 7.095 14.095 18.1025 21.095  
28.095 147.555

**VOICE:** 1.855 3.990 7.290 14.290 18.160 21.390  
28.590 147.555

### Notes:

CWs = Morse Code practice (slow) = 5, 7.5, 10, 13 and 15 WPM

CWf = Morse Code practice (fast) = 35, 30, 25, 20, 15, 13 and 10 WPM

CWb = Morse Code Bulletins = 18 WPM

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

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

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

On Tuesdays and Fridays at 2230 UTC (6:30 PM ET), Keplerian Elements for active amateur satellites are sent on the regular digital frequencies.

A DX bulletin replaces or is added to the regular bulletins between 0000 UTC (8 PM ET) Thursdays and 0000 UTC (8 PM ET) Fridays.

Audio from W1AW's CW code practices, and CW/digital/phone bulletins is available using EchoLink via the W1AW Conference Server named "W1AWBDCT." The monthly W1AW Qualifying Runs are presented here as well. The CW/digital/phone audio is sent in real-time and runs concurrently with W1AW's regular transmission schedule.

All users who connect to the conference server are muted. Please note that any questions or comments about this server should not be sent via the "Text" window in EchoLink. Please direct any questions or comments to [w1aw@arrl.org](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 105 in the April 2017 issue of QST or on the web at <http://www.arrl.org/w1aw-operating-schedule>.

Used with permission ARLB011 W1AW 2017 Spring/Summer Operating Schedule



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

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

**Editor: Milford Craig / N3WYG**

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

**Mailing Address:**

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

**Meetings:**

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

**Dues:**

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

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

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

AA

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

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

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

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



**Mark Your Calendars**

**REGULAR ACTIVITIES**

Club Meetings are held on the first and third Thursdays of the month from 7:30 to 9PM at the clubhouse located at the Davidsonville Family Recreation Center in Davidsonville, MD  
**Free License Exams** every 2nd Saturday of the Month - Check in at Noon, Exams at 1PM - At the clubhouse - Contact Steve/K3BAY [k3bay@w3vpr.org](mailto:k3bay@w3vpr.org)

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

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

**EVENT SCHEDULE**

**Thursday, August 3** 7:30pm AARC Club meeting, newcomers always welcome.

**Thursday, August 10** 7:30pm AARC board meeting (we have an open meeting policy)

**Saturday, August 12** 7:00am (support) Ben Moore Memorial Half Marathon (in Annapolis) [Details.](#)

12:00pm AARC Free **Exams** for your FCC amateur radio license, [every second Saturday of the month.](#)

**Sunday, August 13** 1:00pm AARC [Mesh Networking Group](#), at 1 to 4 PM at the clubhouse

**Thursday, August 17** 7:30pm AARC Club meeting, newcomers always welcome.

**Sunday, August 27** 7:00am AARC (support) Annapolis 10 Mile Run

1:00pm AARC Kit-building, [troubleshooting](#) and repair, at 1 to 4 PM at the clubhouse









including social media, ScoutLink and IRC chat services, Skype, and more. "It also recognizes the goal of the event -- connecting Scouts so that they can engage in conversations with other Scouts across town and around the world," Wilson said. "This allows them to discover geographic and cultural differences and similarities. Plus, they are exposed to the technology that makes all this happen." The World JOTA-JOTI Team said it would announce "a number of weekend activities supporting the 2017 theme."

JOTA participation last October was up from 2015's numbers. According to the final JOTA report, 10,761 Scouts took part -- an increase of more than 50% from a year earlier -- and the number of stations filing reports, at 267, jumped by 28% from 2015 (the record was 271 in 2013). The number of Amateur Radio operators was up by 14% to 1,120, although the number of radios reported in use dropped by 25% to 631. Total JOTA 2016 contacts remained flat at 8,254. -- *Thanks to JOTA Coordinator Jim Wilson, K5ND*

Used with permission The ARRL Letter for July 6, 2017

AA

## Amateur Radio Volunteers in British Columbia Reported Assisting Relief Agencies

Radio Amateurs of Canada ([RAC](#)) reported last weekend that it was monitoring the [wildfire situation](#) in British Columbia. Acting British Columbia/Yukon Section Manager Bill Gipps, VE7XS, advised RAC that Amateur Radio Emergency Service teams had not been called out, and that the wildfire situation "has not become a communications event." A state of emergency has been declared in Canada's westernmost province. More than 250 wildfires were reported active in British Columbia as of July 12, and 21 of them are considered "of note." Fires had spread over nearly 99,000 acres by midweek.



One of the British Columbia wildfires, this one northeast of Princeton. [British Columbia Wildfire Centre photo]

"There are amateurs on the ground helping other organizations such as the Red Cross," RAC reported. It's been estimated that more than 14,000 people have been evacuated from fire-stricken communities, many now in shelters, and an undetermined number of homes have been destroyed.

Under the state of emergency, agencies such as Emergency Management BC, the Fire Commissioner, the Ministry of Forests, Lands and Natural Resource Operations, and the RCMP have authority to take every action necessary to fight the wildfires and ensure protection of residents and their communities.

Lightning is being blamed for most of the wildfires throughout the province. The last provincial declaration of state of emergency was issued in August 2003, also in response to wildfires.

Used with permission The ARRL Letter for July 13, 2017

## Revised FCC Form 605 Will Ask Applicants "the Felony Question"

A revised FCC Form 605 — *Quick-Form Application for Authorization in the Ship, Aircraft, Amateur, Restricted and Commercial Operator, and General Mobile Radio Services* — going into effect in September will ask all applicants to indicate if they have been convicted of or pled guilty to a felony. The Communications Act obliges the Commission to ask "the felony question," as it did on the old Form 610 and still does on other applications. This action will correct its omission on Form 605, which has existed for years. Applicants' responses and explanations will be used to determine eligibility to be a Commission licensee. The FCC told ARRL that it's still deciding whether to issue a public notice on the change.

"The Commission is revising the basic qualifications section of the form to include a question regarding whether an application has been convicted of a felony in any state or federal court," the Office of the FCC Secretary explained in a May filing with the Office of Management and Budget (OMB), which must okay the revision. "Applicants answering YES must provide an explanation regarding the conviction. This item enables the FCC to determine whether an applicant is eligible under sections 310(d) and 308(b) of the Communications Act of 1934, as amended, to hold or have ownership interest in a station license."

The revision also will apply to NCVEC Form 605 — the *unofficial* Amateur Radio-specific version of the application that is completed and filed at volunteer examiner coordinator (VEC) examination sessions. VECs will have to start using the revised form on September 7. Responding to VECs' questions, the FCC offered some guidance, with a particular focus on NCVEC Form 605.

ARRL VEC Manager and NCVEC Vice-Chair Maria Somma, AB1FM, thanked the FCC for honoring a request to amend the effective date of the change, initially in early August. "At the urging of the NCVEC leadership, the FCC took into consideration the undertaking to change and distribute all affected forms and update software and agreed to push back the execution date by 1 month," she said. The NCVEC will create a revised NCVEC Form 605 and release it to VE teams before September 7.

Once the Form 605 update has been implemented, assuming all other information is correct, negative felony question responses will result in a license grant, the FCC said. A YES will place the application in the "pending file for review" category. Applicants answering YES would have to, within 14 days, provide the FCC with a statement explaining the circumstances, and a statement "giving the reasons why the applicant believes that grant of the application would be in the public interest, notwithstanding the actual or alleged misconduct," the revised Form 605 instructions state. The FCC said an applicant's answer to the felony question and explanation will be public via ULS, unless a separate request is made to the FCC that the applicant's explanation be kept confidential. The FCC will review applications on which the felony question has been answered in the affirmative and decide whether to grant them or designate them for hearing.

"The applicant must provide sufficient information





homeowners association from installing effective outdoor antennas to visit the RallyCongress site and e-mail their two US senators. He also encouraged those not currently affected by deed covenants, conditions, and restrictions (CC&Rs) to support their fellow radio amateurs by doing the same.



ARRL President Rick Roderick, K5UR.

"If you want to help create an opportunity -- not available before now -- for Amateurs who live in deed-restricted communities to install effective outdoor antennas on property that you own or lease, send these e-mails today!" Roderick said. "We need you to reach out to your senators today. Right away."

S. 1534 was introduced in the US Senate on July 12, marking another step forward for this landmark legislation. Senators Roger Wicker (R-MS)

and Richard Blumenthal (D-CT) are the Senate sponsors. The measure will, for the first time, guarantee all radio amateurs living in deed-restricted communities governed by a homeowners association (HOA) or subject to any private land-use regulations, the right to erect and maintain effective outdoor antennas at their homes, while protecting the aesthetic concerns of HOAs.

Used with permission The ARRL Letter for July 27, 2017  
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**Pictures of Fild day 2017 from Ed Santini, KB3YMU**



**Anne Arundel Radio Club  
 is a  
 501C3 organization  
 serving central Maryland's  
 All donations are graciously  
 received.**

# 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*





# AARC Two-Meter Net Controller Schedule — 2017

(Year/Month/Day)

|         |         |       |
|---------|---------|-------|
| 17/1/4  | KB3YQK  | Tim   |
| 17/1/11 | K3MAW   | Mike  |
| 17/1/18 | AA3EB   | Ed    |
| 17/1/25 | KB3ZYO  | Rich  |
|         |         |       |
| 17/2/1  | KB3MUV  | Raven |
| 17/2/8  | K3ACT   | Chuck |
| 17/2/15 | WA3SKN  | Mike  |
| 17/2/22 | KB3YQK  | Tim   |
|         |         |       |
| 17/3/1  | K3MAW   | Mike  |
| 17/3/8  | AA3EB   | Ed    |
| 17/3/15 | KB3ZYO  | Rich  |
| 17/3/22 | KB3MUV  | Raven |
| 17/3/29 | K3ACT   | Chuck |
|         |         |       |
| 17/4/5  | WA3SKN  | Mike  |
| 17/4/12 | KB3YQK  | Tim   |
| 17/4/19 | K3MAW   | Mike  |
| 17/4/26 | AA3EB   | Ed    |
|         |         |       |
| 17/5/3  | KB3ZYO  | Rich  |
| 17/5/10 | KB3MUV  | Raven |
| 17/5/17 | K3ACT   | Chuck |
| 17/5/24 | WA3SKN  | Mike  |
| 17/5/31 | KB3YQK  | Tim   |
|         |         |       |
| 17/6/7  | K3MAW   | Mike  |
| 17/6/14 | AA3EB   | Ed    |
| 17/6/21 | KB3ZYO  | Rich  |
| 17/6/28 | KB3MUVV | Raven |

|          |        |       |
|----------|--------|-------|
| 17/7/5   | K3ACT  | Chuck |
| 17/7/12  | WA3SKN | Mike  |
| 17/7/19  | KB3YQK | Tim   |
| 17/7/26  | K3MAW  | Mike  |
|          |        |       |
| 17/8/2   | AA3EB  | Ed    |
| 17/8/9   | KB3ZYO | Rich  |
| 17/8/16  | KB3MUV | Raven |
| 17/8/23  | K3ACT  | Chuck |
| 17/8/30  | WA3SKN | Mike  |
|          |        |       |
| 17/9/6   | KB3YQK | Tim   |
| 7/9/13   | K3MAW  | Mike  |
| 17/9/20  | AA3EB  | Ed    |
| 17/9/27  | KB3ZYO | Rich  |
|          |        |       |
| 17/10/4  | KB3MUV | Raven |
| 17/10/11 | K3ACT  | Chuck |
| 17/10/18 | WA3SKN | Mike  |
| 17/10/25 | KB3YQK | Tim   |
|          |        |       |
| 17/11/1  | K3MAW  | Mike  |
| 17/11/8  | AA3EB  | Ed    |
| 17/11/15 | KB3ZYO | Rich  |
| 17/11/22 | KB3MUV | Raven |
| 17/11/29 | K3ACT  | Chuck |
|          |        |       |
| 17/12/6  | WA3SKN | Mike  |
| 17/12/13 | KB3YQK | Tim   |
| 17/12/20 | K3MAW  | Mike  |
| 17/12/27 | AA3EB  | Ed    |

## 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.*

**Copyright © 2011 Anne Arundel Radio Club**



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

8PM, On the AARC Repeater 147.105

#### Other Amateur Radio nets

| Name                         | Frequency             | Day        | Time          |
|------------------------------|-----------------------|------------|---------------|
| Morning Commuter Net         | 147.105+Mhz PL 107.2  | Weekdays   | 0600          |
| AA County ARES Net           | 146.805- Mhz PL 107.2 | Sunday     | 2000          |
| Baltimore Traffic Net        | 145.330 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          |

**KEEP IN TOUCH**

Check the web site regularly. Log into the various nets available,  
 "Holly Net" on week day mornings,  
 Wednesday Night Net on Wednesday evenings,