



# FEEDBACK



Web Site [k3dn.org](http://k3dn.org)

Warminster Amateur Radio Club

January 2023

## Next Meeting January 5th -

### Warminster ARC General Meeting December 1, 2022

Called to order: 7:45pm

Outstanding Ham of the Year awarded to: Tony Cuttone (W3FLH)

The scheduled Presenter for the evening- Eric Fleischer from Craven Hall- was unable to make the meeting. Instead, the president called for a discussion of suggested topic ideas for future meeting. These included:

- \* Trouble Shooting Techniques
- \* Antenna Tower Climbing Safety
- \* Antenna Repair
- \* VHF-UHF DXing
- \* Fox Hunting and looking for TX Transmitter Sites
- \* New Radio Operators- Stating out, setting up your new station

Also, members agreed the web site needs to be updated.

Meeting Adjourned: 8:45pm

### Free Extra Class Course on Zoom starting Jan 12

A free, weekly, live, Amateur Radio Extra Class Licensing course on Zoom will begin on Thursday, January 12, 2023, and will run through Thursday, March 23. There will be 11 sessions. The three-hour sessions will start at 6:30 PM Eastern Time. Sessions will be recorded. Those attending should hold (or be studying for) the General Class Amateur Radio License. These are the classes that we have been holding for years sponsored by the National Electronics Museum. Please publicize this with anyone that you think would be interested. Those wishing to sign up should email [roland.anders@comcast.net](mailto:roland.anders@comcast.net).

Thanks.

73,  
Rol Anders, K3RA

### The K7RA Solar Update

Tad Cook, K7RA, of Seattle, Washington, reports for this week's ARRL Propagation Bulletin:

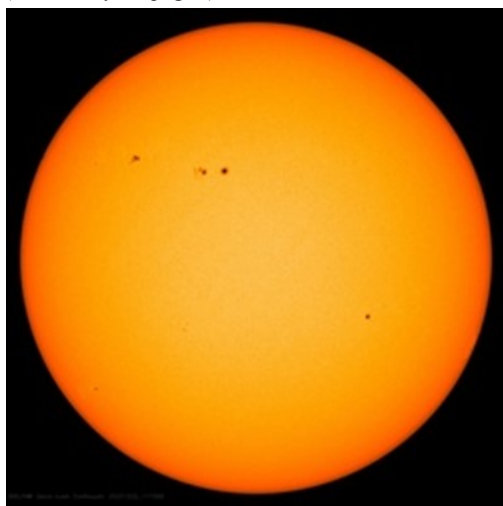
I am writing this, my penultimate bulletin of 2022, about seven hours after the start of Winter Solstice in the Northern Hemisphere on Wednesday December 21, 2022, at 2147 UTC. It is very cold in Seattle, about 17 degrees Fahrenheit on the longest night of the year.

Solar activity was down a bit from the previous week, although it was one of those odd occasions when average daily sunspot numbers and solar flux changed in opposite directions.

Average daily sunspot number declined from 136.9 to 124.1, while solar flux rose from 150 to 153.8.

Geomagnetic indicators were a bit lower, with average planetary A index changing from 7.7 to 6.7, and middle latitude numbers from 6 to 5.1.

(Continued from page 1)



Solar disk image taken December 22, 2022, courtesy of NASA SDO/HMI.

Due to missing data, I had to fudge one of the numbers (the December 16 middle latitude A index), which I pegged at 7 by eyeballing trends.

Predicted solar flux appears to reach a short-term peak of 160 on January 4 - 7, 2023. Starting December 22, 2022, the forecast shows 140 and 135 through December 23; 130 on December 24 - 25; 135 on December 26 - 28; 130, 135, and 138 on December 29 - 31; 140, 150, and 155 on January 1 - 3, 2023; 160 on January 4 - 7; 158, 156, 154, 154, and 152 on January 8 - 12; 150 on January 13 - 15; 145, 130, and 120 on January 16 - 18; 118 on January 19 - 20; and 120, 125, and 127 on January 21 - 23.

Predicted planetary A index is 12, 8, 5, 14, and 10 on December 22 - 26; 8, 5, 12, 10, and 12 on December 27 - 31; 8, 5, and 18 on January 1 - 3, 2023; 10 on January 4 - 5; 8, 10, and 6 on January 6 - 8; 5 on January 9 - 14; 12, 10, and 20 on January 15 - 17; 12, 8, 5, and 18 on January 18 - 21; and 20 on January 22 - 24.

In Friday's bulletin look for a 6-meter report from Jon Jones, N0JK, the columnist of "The World Above 50 MHz" in *QST* magazine, and any other interesting observations you and others may send my way.

Sunspot numbers for December 15 through 21, 2022 were 140, 108, 139, 128, 132, 119, and 103, with a mean of 124.1. The 10.7-centimeter flux was 165.9, 163.1, 154.6, 155.6, 152.4, 146.4, and 138.7, with a mean of 153.8. Estimated planetary A indexes were 5, 9, 3, 4, 11, 6, and 9, with a mean of 6.7. Middle latitude A index was 4, 7, 2, 2, 9, 5, and 7, with a mean of 5.1.

Send your tips, questions, or comments to [k7ra@arrrl.net](mailto:k7ra@arrrl.net).

A comprehensive K7RA Solar Update is posted Fridays on the ARRL website. For more information concerning radio propagation, [visit](#) the ARRL Technical Information Service, [read](#) "What the Numbers Mean..." and [check out](#) the Propagation Page of Carl Luetzel-schwab, K9LA.

A propagation bulletin [archive](#) is available. For customizable propagation charts, visit the [VOACAP Online for Ham Radio](#) website.

[Share](#) your reports and observations.

A weekly, full report is posted on [ARRL News](#).

*Courtesy of the ARRL Newsletter*

## Volunteers On The Air

As announced in the January 2023 issue of *QST*, ARRL is holding the year-long operating event, Volunteers On The Air (VOTA), honoring all ARRL volunteers.

In similar fashion to the 2014 ARRL Centennial QSO Party and the 2018 International Grid Chase, this event will be exclusively driven by contacts uploaded to Logbook of The World (LoTW).

### Highlights of the event include:

**Earning points for contacting W1AW portable stations:** There will be week-long activations of portable W1AW/# stations in all 50 states, and in several US possessions/territories, which will generate on-air activity to earn points. Each state will be activated twice. The schedule of when each state will be activated will be updated as changes and additions occur. See the Points Table at [www.arrrl.org/volunteers-on-the-air](http://www.arrrl.org/volunteers-on-the-air) for the full list of points.

**Contacting ARRL volunteers or members on the air:** ARRL Officers, Directors, Section Managers (and their appointees), staff, and even domestic and DX members, can be contacted for points.

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Using LoTW (<http://www.arrl.org/logbook-of-the-world>) as the contacts data source, the Volunteers On The Air event features W1AW activations from all 50 states (twice) and several territories during 2023. Weeks will begin on a Wednesday and end on a Tuesday. Some weeks will be shown as off weeks to avoid other major operating events.

Participants will work W1AW portable stations and ARRL volunteers to earn contact points.

Participants do not need to upload to, or participate in, LoTW. Uploads to LoTW by W1AW portable stations and by the volunteers will feed the points scoring system.

A leaderboard will be activated after the event ramps up, and certificates will be available during and after the event concludes. Once the year is completed, an annual summary will be released.

If you review the state activations list and notice your state is not yet indicating a host, and you have interest in activating your state, consider reaching out to your Division Director to express your club's interest.

For information and continued updates, visit the VOTA website at [www.arrl.org/vota](http://www.arrl.org/vota).

*Courtesy of the ARRL Newsletter*



### **Rep. Bill Johnson Introduces Bill to Eliminate Private Land Use Restrictions on Amateur Radio**

Congressman Bill Johnson (OH-6) introduced a bill in the U.S. House of Representatives ([H.R.9670](https://www.congress.gov/bills/117/9670)) on Thursday, December 22, 2022, to eliminate private land use restrictions that prohibit, restrict, or impair the ability of an Amateur Radio Operator from operating and installing amateur station antennas on property subject to the control of the Amateur Radio Operator.

The exponential growth of communities subject to private land use restrictions that prohibit both the operation of Amateur Radio and the installation of amateur station antennas has significantly restricted the growth of the Amateur Radio Service. These restrictions are pervasive in private common interest residential communities such as single-family subdivisions, condominiums, cooperatives, gated communities, master-planned communities, planned unit developments, and communities governed by community associations. The restrictions have particularly impacted the ability of Amateur Radio to fulfill its statutorily mandated duty of serving as a voluntary noncommercial emergency communications service.

Congress in 1996 directed the Federal Communications Commission (FCC) to promulgate regulations (Public Law 104-104, title II, section 207, 110 Stat. 114; 47 U.S.C. 303 note) that have preempted all private land use restrictions applicable to exterior communications facilities that impair the ability of citizens to receive television broadcast signals, direct broadcast satellite services, or multichannel multipoint distribution services, or to transmit and receive wireless internet services. ARRL attempts to obtain similar relief for Amateur Radio were rejected by the FCC with a statement such relief would have to come from Congress.

ARRL Legislative Advocacy Committee Chairman John Robert Stratton, N5AUS, noted that Congress, in 1994 by Joint Resolution, S.J.Res.90/H.J.Res.199, declared that regulations at all levels of government should facilitate and encourage the effective operation of Amateur Radio from residences as a public benefit. He continued by stating that "H.R.9670, the *Amateur Radio Emergency Preparedness Act*, is intended to fulfill that mandate and preserve the ability of Amateur Radio Operators to continue to serve as a key component of American critical communications infrastructure."

ARRL President Rick Roderick, K5UR, and Mr. Stratton both extended on behalf of the ARRL, its Members, and the Amateur Radio community their thanks and appreciation for the leadership of Rep. Johnson in his tireless efforts to support and protect the rights of all Amateur Radio Operators.

For the full text of the bill, [click here](#) (PDF).

*Courtesy of the ARRL Newsletter*

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### **Rep. Lesko Introduces Bill to Replace Symbol Rate Limit with Bandwidth Limit**

Congresswoman Debbie Lesko (AZ-08) introduced a bill in the U.S. House of Representatives (H.R. 9664) on December 21, 2022, to require that the Federal Communications Commission (FCC) replace the current HF digital symbol rate limit with a 2.8 kHz bandwidth limit.

After being petitioned by ARRL The National Association for Amateur Radio® in 2013 (RM-11708) for the same relief, in 2016 the Commission issued a Notice of Proposed Rulemaking (WT Docket No. 16-239) in which it agreed that the HF symbol rate limit was outmoded, served no purpose, and hampered experimentation. But the Commission questioned whether any bandwidth limit was needed in its place. Most amateurs, including the ARRL, objected to there being no signal bandwidth limit in the crowded HF bands given the possibility that unreasonably wide bandwidth digital protocols could be developed, and since 2016 there has been no further FCC action.

In conjunction with introducing the legislation, Congresswoman Lesko stated that "With advances in our modern technology, increased amounts of data can be put on the spectrum, so there is less of a need for a regulatory limit on symbol rates. I am pleased to introduce this important piece of legislation to update the FCC's rules to support the critical role amateur radio operators play and better reflect the capabilities of our modern radio technology."

ARRL President Rick Roderick, K5UR, hailed introduction of the bill. Roderick stated that "the FCC's delay in removing this outdated restriction has been incomprehensible, given that the biggest effect of the delay is to require totally inefficient spectrum use on the already-crowded amateur HF bands. I hope that the Commission will act to remove this harmful limitation without waiting for the bill to be passed."

ARRL Legislative Committee Chairman John Robert Stratton, N5AUS, added that "the symbol rate limit hampers experimentation and development of more efficient HF data protocols by U.S. amateurs. For all practical purposes the field has been ceded to amateurs outside the U.S., where there is no comparable limit. Removing the restriction not only will allow U.S. amateurs to use the most efficient data protocol suitable for their purpose, but it also will promote and incentivize U.S. amateurs to experiment with and develop even more efficient protocols."

*ARRL is the National Association for Amateur Radio®. Founded in 1914 as The American Radio Relay League, ARRL is a noncommercial organization of radio amateurs. ARRL numbers within its ranks the vast majority of active radio amateurs (or "hams") in the U.S., and has a proud history of achievement as the standard-bearer in promoting and protecting amateur radio. For more information about ARRL and amateur radio, visit [www.arrl.org](http://www.arrl.org).*

*A copy of this press release is available from ARRL:*

[www.arrl.org/news/rep-lesko-introduces-bill-to-replace-symbol-rate-limit-with-bandwidth-limit](http://www.arrl.org/news/rep-lesko-introduces-bill-to-replace-symbol-rate-limit-with-bandwidth-limit)

*Courtesy of the ARRL Newsletter*



### **NASA "Decodes" Secret Messages Onboard the Orion Spacecraft**

NASA has a long history of hiding secret messages in its spacecraft and that tradition continued with the launch of the Orion crew capsule in November on top of the Artemis I rocket.

Five hidden messages were placed in the Orion capsule ranging from Morse Code to musical notes.

On the right side of the capsule below a window and next to the pilot's seat were the letters "C, B, A, G, F" - five musical notes for the first words in Frank Sinatra's song, "Fly Me to the Moon."

In the middle of the capsule, above the cockpit control console, was a Morse Code message that spelled out the name "Charlie" in remembrance of former Orion Deputy Program Manager Charlie Lundquist, who died in 2020.

Other messages included a picture image of a cardinal to the right of the pilot seat as a tribute to former Orion Program manager,

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Johnson Space Center director, and St. Louis Cardinals fan Mark Geyer, who died in 2021.

The other two messages were on top of the pilot's seat including Binary code representing 18. This is in honor of NASA's history of travel to the moon with the Apollo Program and to celebrate a spacecraft's return to the Moon after Apollo 17 for the Artemis Generation. The final message was in front of the pilot's seat, the country codes of each country with the European Space Agency (ESA) that participated in developing and building the spacecraft's European Service Module.

**A Morse code symbol for "Charlie" commemorates the life of former Orion Deputy Program Manager Charlie Lundquist, who died in 2020. Photo courtesy of NASA.**



*Courtesy of the ARRL Newsletter*

### **Marines To Gain Radio Op Experience Via Amateur Radio**

On Wednesday, December 7, 2022, 22 Communication Officers at the Marine Corps Communication-Electronics School (MCCES) in Twentynine Palms, California, became amateur radio operators. W6BA, the [Morongo Basin Amateur Radio Club](#) (MARC) administered the exams and 21 candidates passed their Technician exam, and one passed their General exam. 14-year-old Kalynn Cossette, KN6WVD, was the youngest candidate who passed her Technician exam.

Retired Marine Corps Warrant Officer 4 Robert Cloutier, WO4ROB, and MARC President says it was a great event and he is excited to see so many new amateur radio operators. So, what drove the officers to want amateur radio licenses? Cloutier pointed out that all of the candidates already have a background in radio administration but not operating experience.

"Chief Warrant Officer (CWO3) Kalem Cossette, KK4KC, one of the training officers at MCCES, introduced amateur radio to the Communication Officers," said Cloutier. "Most of the students were curious on how to get their license, so CWO3 Cossette contacted the MARC to schedule an exam session."



Cloutier said that all new license holders were offered a free club membership but many of them will be deployed to other locations around the world and will be able to join other amateur radio clubs. He said they hope to conduct exams every three months.

*Courtesy of the ARRL Newsletter*

### **When All Else Fails: Amateur Radio Helps Rescue Lost Hiker**

*Editor's note: The following event took place on Sunday afternoon, December 11, 2022, and was told to ARRL News by Raul "Skip" Camejo, AC1LC, Public Information Coordinator for the ARRL New Hampshire Section.*

A New Hampshire man and his dog went out for a day hike yesterday in the Belmont area of central New Hampshire. Things went well until his cell phone battery died. With darkness near and a prediction of snow, a leisurely day hike was quickly turning into a serious health and safety issue for the hiker.

Fortunately for him, he is also an amateur radio operator and brought along his digital mobile radio (DMR) handheld radio with him. With no cell phone capability, he made a call on the DMR New Hampshire statewide channel through the Gunstock (Mountain) DMR repeater, seeking assistance. His call was answered by Bill Barber, NE1B, who was monitoring the channel. The hiker asked Barber to call his wife, because he could not text or get "pinged" with his dead cell phone. Barber contacted the hiker's wife, and she was glad to hear that someone was in contact with him. Unfortunately, he did not know exactly where he was and believed he would have to walk through brush for an hour or more to get to a road.

His wife called the local police department, who began a search with their local fire department. Amateur radio was the only

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communication from about 4:30 to 6:30 PM. Barber was able to make contact with Rick Zach, K1RJZ, who lives closer to the search area, and was familiar with the area's snowmobile trails and roads. Zach coordinated communication between the responding police units and the lost radio operator on the New Hampshire Statewide talkgroup.

Police and fire units attempted to assist in the search by activating their sirens in different locations to try to obtain a location on the ham operator, but he was not able to hear them.

Another amateur radio operator, Chuck Cunningham, K1MIZ, was monitoring the events on Net Watch and noticed that the lost ham had accidentally changed channels. This information was passed along, and 2-meter DMR communication continued until the lost ham walked out to a road and was able to advise searchers of his location. The search and checkout ended successfully at 6:30 PM.

Thanks to the efforts of Bill Barber, NE1B (ARRL Life Member); Rick Zach, K1RJZ (ARRL member), and Chuck Cunningham, K1MIZ.

Barber listed some very important lessons learned from the incident:

- Radio batteries last longer on DMR radios than on analog mode.
- Even his wife had trouble with her cell phone coverage at home.
- Monitor your local state DMR channel to help others nearby.
- You may want to program 146.52 FM next to your state channel for signal strength direction finding if and when you're out of repeater range. Some hams still monitor 146.52 MHz simplex.
- Stay on the primary channel until you know more hams are nearby to direction find your signal.
- Hike with DMR. Network sites cover many areas of New England that do not have any cell service.
- Hike with a flashlight.

And I would like to add one more item to the list. My son is one of the leaders of Pemigewasset Valley (New Hampshire) Search & Rescue Team and unfortunately responds to too many calls for lost hikers. One very important item that he stresses is that hikers file a "flight plan." Let someone who is not going on the hike know where you are going, how long you expect to be gone, and what communication equipment or capability you have with you. This also applies if you are going out hunting, fishing, or boating.

Raul "Skip" Camejo, AC1LC  
Public Information Coordinator  
ARRL New Hampshire Section  
[ac1lc@arrl.net](mailto:ac1lc@arrl.net)

*Courtesy of the ARRL Newsletter*



**The amateur radio repeater on the summit of Gunstock Mountain helped connect the lost hiker in a remote area of New Hampshire. The repeater is affiliated with New England Digital Emergency Communications Network, NEDECN.**

## 2023 Contest Calendar

## January

1 [Straight Key Night](#)

0000 UTC through 2359 UTC

1 [Kids Day](#)

1800 UTC through 2359 UTC

7-8 [RTTY Roundup](#)

1800 UTC Saturday, ends 2359 UTC Sunday

14-15 [North American QSO Party CW](#)

1800Z, Jan 14 to 0559Z, Jan 15

21-22 [North American QSO Party, SSB](#)

1800Z, Jan 21 to 0559Z, Jan 22

1800 UTC Saturday, ends 2359 UTC Sunday

21-23 [January VHF](#)

1900 UTC Saturday, ends 0359 UTC Monday

## February

13-17 [School Club Roundup](#)18-19 [International DX – CW](#)

0000 UTC Saturday and runs through 2359 UTC Sunday.

5 [North American Sprint, CW](#)

0000Z-0500Z

## V.E. TEST LOCATIONS

Confirm all information, in advance, with the contact person. Licensed applicants must bring the original, and one photocopy of their license. All applicants, including children, must bring two forms of positive ID. Also bring the original, and a copy, of any Certificate of Successful Completion needed to prove current status. The ARRL VEC'S 2023 test fee is \$15.00.

**Warminster Amateur Radio Club,** Monthly, Last Mon. 7:00 pm at the Wilson Senior Community Center 580 Delmont Avenue Warminster, PA 18974 George Brechmann (215) 443-5656.

**Atco, NJ**, The fourth (4th) Tuesday of each month, at 7 p.m. Winslow Township Senior Center, 33 Cooper Folly Road, 08004-2603.  
Mark (K2AX) jtra@comcast.net

**Levittown, PA**, Monthly, 3rd Monday at 6:30. Falls Township Building - Ben Johns, K3JQH, 215-657-5994

**Telford, PA**, RF Hill ARC. Indian Valley Library. Held the third Monday of odd months (January, March, May, July, September, November)  
Contact: Jim Soete 215-723-7294  
[wa3ylq@arrl.net](mailto:wa3ylq@arrl.net).

**Philadelphia, PA**, Testing is done on the 4th, non holiday Thursday of the month at the, Community Ambulance Association of Ambler, 1414 E Butler Pike, Ambler PA 19002 at 7:00 PM We also are testing on Saturdays at least once per quarter at 9:00 AM. For further information contact James McCloskey at [jmccloskey@msn.com](mailto:jmccloskey@msn.com) and by phone 215-275-2979.

**Lansdale, PA** Testing on the fourth non-holiday Thursday of the month starting at 7:00 PM. The Lansdale Library Community Room Vine St. and Susquehanna Ave. Lansdale, Pa. Registration is required 48 hrs. or more before the scheduled exam date. If there are no registrations the scheduled exam date will be canceled. NO WALK-INS. You can register by contacting:  
Olaf N. Markert - Phone (610) 517-5074, E-mail [w3pa@arrl.net](mailto:w3pa@arrl.net)  
Alt Contact: Jim, 610-287-5630

➤ ATLANTIC DIV. HAMFESTS  
➤ 2023

## January

14 [Harrisburg WinterFest](#)

Vietnam Veterans of America

8000 Derry St.

Harrisburg, PA 17101

<http://www.w3uu.org>

## April

15 [Sussex Amateur Radio and Electronics Expo](#)

Cheer Community Center

20520 Sand Hill Rd.

Georgetown, DE 19947

<http://www.radioelectronicsexpo.com/>29 [York Hamfest](#)

Elicker's Grove Park

511 Roth Church Road

Spring Grove, PA 17362

<http://yorkhamfest.org>

## CLUB INFO

### PUBLIC SERVICE

### CLUB STATION

The WARC club station is open to anyone with an interest, on the first Thursday of the month (meeting night) between the hours of 6:30 and 7:30 pm. with the exception of the December dinner meeting For further information, call George Brechmann N3HBT at 215-443-5656.

### WARC ALUMNI MEMBERSHIP

An Alumni membership category is available for WARC members who are unable to attend meetings and club activities on a regular basis because of health considerations, travel impediments, or other hardships. Dues for the Alumni membership are \$10.00 annually and are approved by the Board. Please contact the Membership Committee for more information if interested."

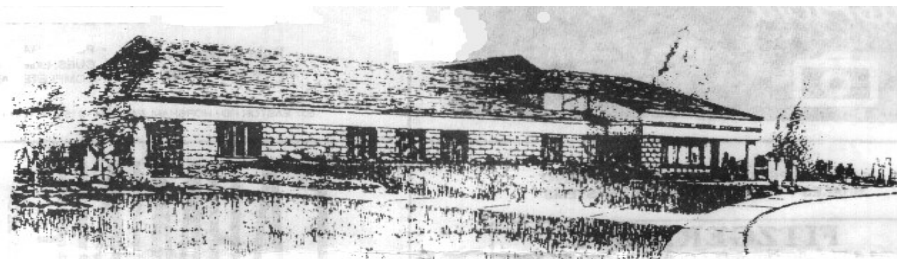
### ATTENTION MEMBERS

The Membership Committee can provide Club badges. Two types are available: an engraved plastic callsign and name badge for \$8 or a free, laminated plastic, photo ID badge/card. The photo id badge is included with your membership. Pictures for the club badge will be taken before club meetings on even numbered months. If you do not have at least a Warminster Amateur Radio Club badge with your picture on it, please contact your Membership Chairs at the WARC monthly meetings. Otherwise, please contact Membership by email at: [membership@k3dn.org](mailto:membership@k3dn.org).

If you want to have your picture taken to be placed on the 'Members' Photos' section of the [www.k3dn.org](http://www.k3dn.org) website, please contact Membership with your interest. When we get enough people who are interested we will post a notice in Feedback and have a camera ready at the following club meeting.

## PROGRAMS 2023

The Club Station - K3DN - is located at the Benjamin Wilson Senior Center, Delmont Avenue, Warminster, PA. The station is open for club members and the interested general public on the first Thursday of the month (meeting night) between the hours of 6:30 and 7:30 pm. with the exception of the December dinner meeting . The station is fully operational on HF (80 meters through 10 meters ) both phone and CW. There is an assortment of amateur radio shareware which may be copied under the shareware licensing agreement.



For additional information on the Club Station please call the Station Manager N3HBT - George at 215-443-5656.

➤ WARC Meetings are held the first Thursday of each month at 7:30 pm at the Benjamin Wilson Senior Center, Delmont Avenue, Warminster, PA. Talk in is available on the 147.09 & 443.950 repeaters.



**SKYWARN INFORMATION****Bucks County SKYWARN Weather Spotter PRIMARY FREQUENCY: 147.300MHZ (+ 131.8)**

Fairless Hills, PA (many remote access locations throughout Bucks County)

**Mount Holly NWSFO SKYWARN Homepage:**

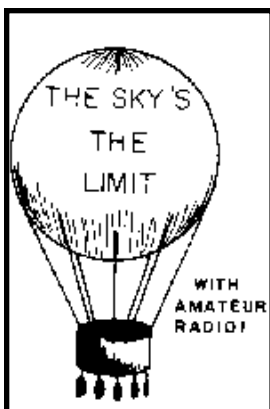
<https://www.weather.gov/phi/Info>

**SKYWARN Basic Weather Spotter Educational Programs URL:**

<https://www.weather.gov/phi/classes>

**➤ CLUB EQUIPMENT**

WARC has 2 Baofeng UV-5R dual band HT's and a Yaesu FT-2900 2M mobile that are available for use by members of the club. The radios are available on a month-by-month basis and have been purchased primarily to help new hams get on the air. However, they may also be used by any club member who is in need of a temporary 2-meter radio. They are also available for use by participants in WARC's public service activities.  
DE, Dave McGowan KC3RAT



*The Warminster Amateur Radio Club  
Announces Free Ham Radio Instructional Classes*

If you're interested in Ham Radio, or think you might be, this is your opportunity. Perhaps you'd like to learn about digital communications, VHF, UHF, satellite, or perhaps you'd rather sit down and chat with someone in South Africa, Russia, Great Britain or in the space station.

For further information contact George Brechmann, N3HBT at 215-443-5656.

**Area Repeaters****VHF**

145.310 R.F. Hill  
145.350 Doylestown R.C.  
146.790 Penn Wireless  
145.330 Hilltown  
146.670 DVRA  
146.685 Holmesburg  
146.925 Willingboro  
147.000 Ham Buergers  
147.030 Phil-Mont  
147.090 Warminster  
147.270 Frankford  
147.300 BEARS  
147.390 CBRA

**220**

224.580 PackRats  
223.76 K3NAL

**UHF**

442.650 DVRA  
443.250 TAG  
443.050 Metro-Comm  
443.950 Warminster  
444.200 BEARS  
447.475 WR3B  
448.225 Penn Wireless  
444.759 RF Hill Analog/  
Fusion

**D-STAR**

146.61000 K3PDR DV  
445.18125 K3PDR DV  
445.01875 AA3E Montco  
RACES

**6 Mtr**

53.030 WA3BXW  
53.230 N3DQZ  
53.320 K3MFI

**Bucks County Amateur Radio Emergency Service (BCARES)**

[www.bucksares.org](http://www.bucksares.org)

Bucks County ARES will be on the air Wednesdays, at 9:00 PM . We will be using Warminster Amateur Radio Club's repeater on 147.090, pl 131.8. This net is linked as shown in the Net Schedule box for the Wednesday night net. It may also be linked to 147.300.

Winlink Gateway Stations:

Lower Bucks NY3J-10

145.530 Bensalem

**Net Schedules**

Sunday	2000	10 Meter Net	28.445 MHz
Wednesday	2000	2 Meter Net	147.09 Rptr.
Wednesday	2000	Linked w/ 2 Meter Net	443.95
Rptr.Wednesday	2000	Linked w/ 2 Meter Net	53.230 Rptr.
Sunday	2030	Informal Net	223.5 Simplex
Thursday	1900	Mont. Cnty RACES Net	146.835 Rptr.

### Are you submitting an article for the Feedback ?

Contributions of articles to be published are always accepted for consideration. Please follow these guidelines:

- E-Mail to:  
**wa4ywm@comcast.net**  
Or via snail mail to:  
**FEEDBACK EDITOR**  
**Warminster Amateur Radio Club**  
**Box 113**  
**Warminster, Pa 18974**
- Use both upper and lower case letters.
- Use your program's spell check.
- If you don't have a computer, then typewritten sheets are o.k., but please use both upper and lower case.
- Put your name and call at the beginning or end of the article, and show credits if you are using material from another source.
- Deadline for articles is the Saturday before the regular meeting.

**For general club correspondence:**  
**k3dn@k3dn.org**

**Visit our Home Page at:**  
<http://www.k3dn.org>

**The annual dues rate structure is as follows:**

**Full Member:       \$25.00**  
**Student:             \$ 7.50**  
**Alumni:               \$12.50**

- **Are your dues current ?**

## 2023 Officers

### Executive Officers

President	Ray Oechslin	KA3TRU	267-269-3198
Vice-President	Dave McGowan	KC3RAT	215-850-5846
Secretary	Dan Myers	K3NXX	215-957-2343
Treasurer	Tom Newman	K3PLA	215-630-5965
Director (A)	Doug Becker	KC3MNQ	215-932-1370
Director (E)	Larry Abbott	WA3ELQ	215-704-3282
Director (A)	Bruce Farrington	WA3ZPC	215-262-4215
Director (E)	George Brechmann	N3HBT	215-443-5656
Past President	Tony Cuttone	W3FLH	267-679-9297

### Committee Chairpersons

ARES/RACES Liason	Karl Harris	K3KH	215-264-1855
ARRL Liason	Irwin Darack	KD3TB	215-343-8170
Awards Manager	Vince Pironti	KD3TC	215-674-0446
Classes	Dave McGowan	KC3RAT	215-850-5846
	Dan Clementi	K3GMQ	
Digital and APRS	Ron Wenig	NY3J	215-638-9257
Feedback Editor	Jim Elmore	WA4YWM	215-538-1889
Field Day 23			
Hamfest 23	Tony Cuttone	W3FLH	267-679-9297
Hamwear	Kathy Acker	KC3FBY	215-815-7978
Holiday Dinner	George Brechmann	N3HBT	215-443-5656
Membership	Tony Cuttone	W3FLH	267-679-9297
Net Manager	George Brechmann	N3HBT	215-443-5656
PA QSO Party	Mark Kempisty	AA3K	
Publicity	Herb Hickmott	KB3VMN	267-718-3601
Refreshments			
RF Interference	Bill Ballantine	K3FMQ	215-766-0764
Repeater Coordinator	Brian Taylor	N3EXA	215-257-6303
Safety Officer	Mike Malone	W3MJM	215-639-2175
Station Trustee	George Brechmann	N3HBT	215-443-5656
Sunshine Club	Regina Litman	KC3LRF	
Township Liason	George Brechmann	N3HBT	215-443-5656
VE License Testing	Larry Abbott	WA3ELQ	215-704-3282
VHF/UHF/MW	George Altemus	KA3WXV	215-855-3856
Website Coordinator	Al Kanschak	WI3Z	215-491-9941
Youth Programs			