



WASHRAGTM



VOLUME 24 ISSUE 03
MARCH 2022

Wireless Association of South Hills

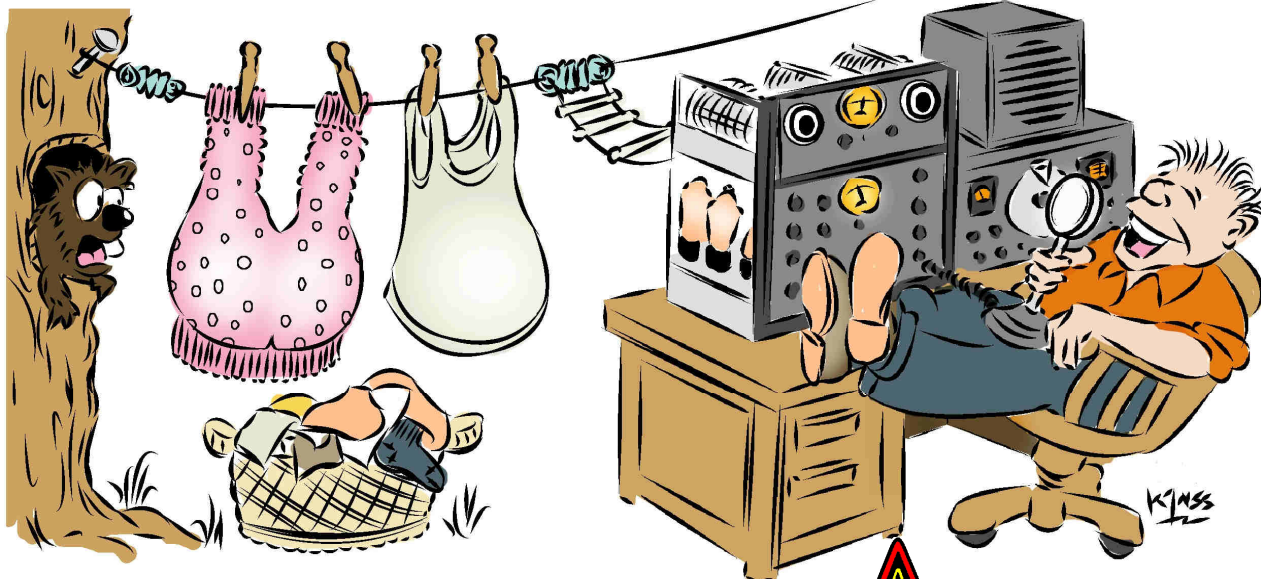


N3SH WA3SH NP2SH/B

www.n3sh.org



Wireless Association of South Hills



WASHRAG™



VOLUME 24 ISSUE 03

MARCH 2022

Next Monthly Meeting: Thursday, March 3rd, 2022

The next scheduled meeting of the **WIRELESS ASSOCIATION OF SOUTH HILLS, INC.** will be on **Thursday, March 3rd, 2022**, starting at 7 PM. This will be an online-only ZOOM meeting; please watch your email for information on how to join the meeting, or contact Curtis KB3CMT before Thursday evening.

Topics **WASHFest 2022** review, 2022 planning, Field Day 2022, and more!

See you there!

Cover: Top: A view of WASHFest from the Club Podium, courtesy of & © 2022 Curtis Turner KB3CMT

Bottom : Bill W3WH conversing with "Mr. Nay" Ed N3UE, courtesy of & © 2022 Ron Notarius W3WN

WASH 2022 OFFICERS

EXECUTIVE COMMITTEE:

President	Curtis Turner KB3CMT
VP / Secretary	Nathan Suehr KC3GMM
VP / Treasurer	Mark Stabryla N3RDV

AND WE COULDN'T DO IT WITHOUT:

N3SH Trustee	Larry Comden K3VX
WA3SH Trustee	Rich Danko N3SBF
NP2SH Trustee	Paul Jordan NP2JF
N3SH WA3SH NP2SH/B QSL Manager	Ron Notarius W3WN
NP2SH 2009 QSL Manager	Carl Schroeder K9CS
VE Team Liaison	Grant Olson KC3MLC
Webmaster	Curtis Turner KB3CMT
Quartermaster	Harold Rosenberger K3HCR
WASH FM Net Manager	Chuck Bihun KC3ELA
WASHFest 2022 Committee	Glenn Roberts KE7FD, Co-Chair
	Bill Hill W3WH, Co-Chair
	Paul Lusardi NØVLR, Co-Chair
Activities & Operating Events	Rick Bell KB3IAC
Ways & Means	Carol Danko KB3GMN
WASH 2M Contest Chair	Chuck Bihun KC3ELA
Field Day 2022 Coordinator	Glen Roberts KE7FD

CLUB-AFFILIATED REPEATERS, BEACONS, & DIGIPEATERS:

Mt. Lebanon	N3SH / R	146.955 MHz (-)	PL 131.8
North Side	N3SH / R	442.550 MHz (+)	PL 131.8
Canonsburg	N3FB / R	443.650 MHz (+)	PL 131.8
St. Johns, VI	NP2SH / B	28.276 MHz	Propagation Beacon
Canonsburg	N3SH	144.390 MHz	APRS Digipeater

N3SH / WA3SH WASHNet, the weekly on-air net of WASH, meets every **Monday** Night, 8:00 PM ET, on the 146.955 & 443.650 repeaters. All radio amateurs, WASH members or not, are welcome to join in!

THE LEGAL STUFF

"The WASHRag™" (formerly "The Mariner™") is the Official Newsletter of the **WIRELESS ASSOCIATION OF SOUTH HILLS, INC. (WASH)**, a 501.C.3 not for profit organization.

Published Monthly with occasional Special Editions as warranted.

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Editor & Publisher: Ron Notarius W3WN

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Ron Notarius W3WN
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e-mail: newsletter@n3sh.org or w3wn@arrl.net

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The **WIRELESS ASSOCIATION OF SOUTH HILLS, INC.** was founded on August 23rd, 1993, as the original **SOUTH HILLS AMATEUR RADIO CLUB**, and operated under that name through 1998. WASH was also known briefly in late 1998 as the **N3SH AMATEUR RADIO CLUB**. It is not in any way affiliated with the "South Hills Amateur Radio Club, Inc." and is not responsible for that group, it's members, or it's actions in any way, shape, or form.

As always, special thanks to the owners & operators of both the N3SH/R Repeaters and the N3FB/R Repeater System for permitting the **WIRELESS ASSOCIATION OF SOUTH HILLS, INC.** and it's members to use their repeaters for club purposes.

WASH Amateur Radio Club News Briefs

Next WASH VE Test TBA

The Next WASH VE exam session will be on **Saturday, February 26th, 2022, 10:00 AM**, at **Home Economics Building, South Park, Pavilion 3735 Buffalo Drive, South Park Township**. Talk-in on the 146.955

The dates and locations for upcoming VE Exams have not been set yet.

As soon as the information is available, it will be published in the newsletter and on the N3SH website.

Thank you for your patience!

MHz repeater. All examiners are ARRL VEC affiliated.

Pre-registration is encouraged. Walk-ins taken on a space/time available basis.

If you plan on attending the test session, please contact VE Team Liason Grant Olson KC3MLC: kgo@grant-olson.net

Curtis's Reflections



Even though we entered in to **WASHFest 2022** with some hesitation; I think it turned out to be a hit. I want to give kudos to everyone that helped make it a reality and think the community appreciated the chance to see folks in person again. Let's hope that we continue see the virus wane and the trend of hamfests returning for the community over the course of this year.

Now with **WASHFest** squarely in the rear-view mirror that means Spring is just around the corner. Our days are gaining sunlight and giving us more opportunities to get that needed antenna work completed. Remember the club is a resource and many of us are willing to help. If you post your plans to the reflector, you will likely have multiple folks willing to give you a hand.

In closing, I would be remiss to not mention the horrible events unfolding in Ukraine. I am sure we all hope for the best for their state and that the amateur operators return once there is some stability in the region again.

— 73, Curtis Turner KB3CMT
President, WIRELESS ASSOCIATION OF SOUTH HILLS, Inc.
N3SH / WA3SH / NP2SH

Reminder: *The March WASH Meeting will be held at Virtual Zoom meeting. Please check your email for your invitation to the meeting. If you don't receive one by Thursday afternoon, please contact Curtis KB3CMT and request that the information be resent.*

WASHFest 2022: "Just wanting to share my thoughts on WASHFest 2022..."

- ♦ Everything well super well – from my perspective
- ♦ From what I heard, the VE session on Saturday went well – thanks Grant!
- ♦ Thanks to the team that setup, tore-down, and the overnight watchman, Chuck!
- ♦ Good attendance on vendors and attendees! – which is a reflection of a chance we took as a club to keep the (1st hamfest of the season alive)
- ♦ Friendships rekindled (lots of chatter at tables)
- ♦ Good coffee and pastries (thanks to the commissary team and W3WH!)
- ♦ People were happy to mingle
- ♦ Sales were made by all table vendors (so it seems)
- ♦ Excellent choice on scaling back main prize tickets and the stress of selling enough to cover the investment
- ♦ And kudos to Tony who successfully man-ed his table remotely from the commissary.

2022 was about "going back to the swap-fest roots" and it worked. Congrats to all who helped out!" — Paul NØVLR

"I agree with this assessment. Thanks to all who helped out and thanks to everyone for showing up. It was good to see everybody!" – Nathan KC3GMM

"Good to have eyeball QSO's with everyone I hear on the radio. I certainly had a good time!" - Stephen K3SEM

Ye Editor couldn't agree more! Well done, everyone!

So... **what's next?**

Well, upcoming plans will be discussed in the March meeting. Some tings to keep in mind:

- ♦ Two Rivers ARC Hamfest, coming up on April 3rd. We will have a club table there, if you have an item or three to pass along!
- ♦ Dayton Hamvention... ok, Xenia Hamvention, but it just doesn't quite have the same ring to it. Regardless, it IS on this year, for the first time in 2 years!
- ♦ Breezeshooter's Hamfest coming up in June. We are waiting on the official notification. But we will be there, and the traditional WASH Picnic is on!
- ♦ Field Day! Can't forget about that! We'll be a a different pavilion this year, but we WILL be in South Park again!

More to come, with more hamfests, with things finally on their way to opening up again (we hope!) More to come!

Speaking of which, we're just abot to the point of restarting the monthly club breakfast, last Saturday of the month. Stay tuned for more information!



Join WASH or Renew your Membership Today ! Membership Application on Page 19

Minutes, February 3rd Meeting

Nathan Suehr KC3GMM, Vice President / Secretary, WASH

Zoom Meeting held online

Call to Order: 19:08. Presiding Officer: Curtis KB3CMT

Sixteen members and no guests present.

Pledge of Allegiance, Moment of Silence for Silent Keys and others deserving.

Roll Call.

Committee Reports:

Treasurer: Mark Stabryla, (N3RDV): Report sent to Nathan (KC3GMM) and forwarded to Curtis KB3CMT. Read and accepted.

Secretary: Nathan Suehr (KC3GMM): No corrections to the minutes. Motion to accept by Bill (W3WH), second by Tony (KB3BYA) and carried. No correspondence.

Repeaters: Frank (N3FB): Repeaters repeating. Working on preventative maintenance plan, and corrected net announcement in the digipeater.

WASHNet: Charles (Chuck) Bihun, III (KC3ELA): Going well. Good conversations. Good attendance. Slight technical issue at net control location.

Thursday Night Tech Net: KC3ELA for Glen Roberts (KE7FD): Watched presentation and enjoyed it. It is available on YouTube. Possible video recap coming.

Contests: Larry (K3VX)

- ARRL DX, Breezeshooters Groundwave CW & Digital contests coming up.
- 15 log submissions for the WASH 2 meter Simplex Contest (Chuck KC3ELA)

Public Service: Mike (WA3PYU):

- 100 Mile Run in Raccoon State Park on March 20th. Steel City ARC requesting help in 4 or 5 locations. Contact Christine (N3LRG) if you can help.
- Pittsburgh Marathon first Sunday in May. Help needed from as many folks as can be available.

Newsletter: Ron Notarius (W3WN): Published. Sent directly to folks who did not receive it from the last time, and everyone appears to have received it. Problem may be due to aggressive spam filtering. Email sent on the reflector requesting email addresses, to try and get everyone on the distribution list. And non-club members are welcome as well.

Volunteer Examiners: Grant Olsen (KC3MLC): Next VE session will be February 27th at **WASHFest 2022** (Saturday setup) at the Home Economics Building. Details in the **WASHrag**.

Ways & Means (including Member Contributions): Carol Danko (KB3GMN): Comments regarding **WASHFest 2022**

President's Report - Curtis (KB3CMT): (No report)

Old Business: More discussions on **WASHFest 2022**

New Business: Richie (N3SBF) brought up that the Two Rivers Hamfest in April, does **WASH** need a table? Discussion. (Cost is \$15 with electric). Motion by Richie (N3SBF) to reserve a club table at the Two Rivers Hamfest. Second by Ron (W3WN). Motion carried.

Good of the Order: (None)

Adjournment: Motion Bill (W3WH); seconded Bill (WA3VSS). Carried

Adjourned:
19:43

Max KO4EZO made a surprise appearance at WASHFest, late in the day. Shown here with Carol KB3GMN, Glen KE7FD, and Paul NØVLR. Welcome!
(Photo courtesy of Paul Lusardi NØVLR)



WASH Spotlight: VE

We had two candidates at the **WASHFest 2022 VEC Test Session**, held on Saturday, February 26th.

Congratulations to Walt Jennings from Washington, and Ryan Greenawalt from South Park, both of whom passed their Technician examinations and are now awaiting their new licenses!

Our thanks to the VE's who came out for the test session... AA3XY, KE7FD, N3IDH, W3LE, W3WN and KC3MLC.

— 73, Grant Olson KC3MLC, VE Team Liaison.



Photo courtesy of and ©Copyright 2022 Ron Notarius W3WN

Every month we're going to feature a **WASH** club member, something about them, something they're involved in or a club-related activity that we're involved in, in the **WASH Spotlight**.

Submissions for the Spotlight should be sent to Ron W3WN at **newsletter at n3sh dot org**

Monthly WASH Breakfast



Please join us for the next **WASH** Breakfast! We usually get together on the LAST Saturday of every month for a chance to informally sit down, shoot the breeze, compare notes, drink lots of coffee, and just have a good time!

Join us this month at **Eat'n Park**, 3380 Washington Road (US 19), McMurray. Start time is about 8 AM until ????. Monitor 146.955 & 443.659 for talk-in or any last minute changes.

All are welcome, **WASH** members or not, amateurs or not!

Wireless Association of South Hills Membership

AA3XY	KB3JHR	N3JSF	WASH FL	WASH TN	Silent Keys
AE3DL	KB3YCX	N3KFD	KA3UPY/M	K3OL	
K3GW	KC3ELA	N3RDV	WASH NE	KE3XB	AB3KA
K3HCR	KC3GMM	N3SBF	NØPEU	N3YPB	AB3ED
K3SGT	KC3MLC	N3UE	WASH OH	WASH TX	K3EED
K3VX	KC3NFV	N8NEU	N8DPW	NB3C	K3LIE
K6DWR	KC3OCT	NB3C	WASH OR	K3LGM	KA3NMG
KA3VXM	KC3QZY	NL7XM	KB3NVL	KB3IJX	KB3ENX
KB3BYA	KC3RAA	W3LE	KB3NVM	Jane Wagner	KB3FNM
KB3CMT	KC4WTT	W3WH	WASH SC	WASH VI	KB3FQT
KB3GMN	KE7FD	W3WN	N8NEU	NP2JF	KB3JHQ
KB3GMU	NØVLR	WA3PYU			N3BPB
KB3GUZ	N3DFK	WA3VSS			N3CZZ
KB3IAC	N3FB	WB4GCS			N3FZ
KB3IVX	N3IDH				N3HKQ

If your call should be listed here & isn't, please contact Mark N3RDV

Through February 27th, 2022
List compiled by
Mark Stabryla N3RDV, Vice President/Treasurer

WA3JPP

2022 WASH Upcoming Events Calendar

Club Meetings & Other Significant Events — Subject to Change

March 3 rd	WASH Meeting	Zoom Meeting—Details in Reflector Email, or contact KB3CMT
March 5 th - 6 th	ARRL DX Contest - Phone	http://www.arrl.org
March 5 th	Breezeshooters Groundwave Voice	http://www.breezeshooters.net
March 12 th	Breezeshooters Groundwave Digital	http://www.breezeshooters.net
March 26 th - 27 th	CQ WPX Contest - Phone	http://www.cqwpix.com
April 3 rd	Two Rivers ARC Hamfest	http://www.trarc.net
April 7 th	WASH Meeting	TBA
May 5 th	WASH Meeting	TBA
May 20 th – 22 nd	Hamvention	Greene County Fairgrounds & Expo Center, Xenia, OH
June 2 nd	WASH Meeting	TBA
June 5 th	Breezeshooter's Hamfest (traditional date)	TBA
June 25 th & 26 th	ARRL Field Day	http://www.arrl.org/field-day
July 7 th	WASH Meeting	TBA
August 4 th	WASH Meeting	TBA

N3UE Woodworking



Ed Wolf N3UE has recently taken up a new endeavor... laser engraving. (See sample)

He's currently available for plaques and signs of varying shapes and designs.

Prices vary, but are very reasonable!

Interested? Contact Ed directly at n3ue11@gmail.com

Antenna Upgrade Project

Photos courtesy of and ©
Copyright 2022 Nathan Suehr
KC3BMM

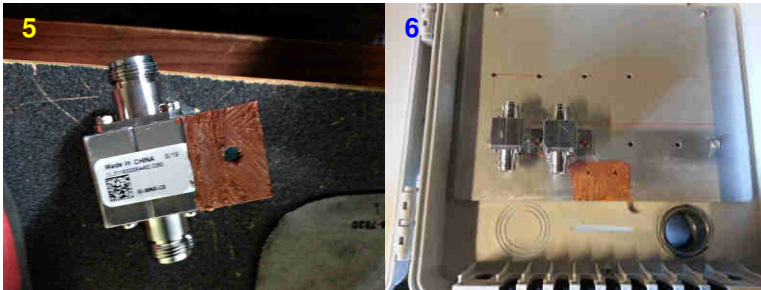
Pittsburgh, PA, February 22nd, 2022 – Starting with DX Engineering's DXE-UE-2P enclosure kit, I cut a slit in the bottom for the copper ground strap and removed the knockout for the appropriate sized conduit. (Picture 1)

You have to drill your own mounting holes into the aluminum plate for the lightning arrestors. I drilled four holes near the bottom for four PolyPhaser IS-50NX-C0 arrestors. (Picture 2) The holes in the middle were due to poor planning and were not used. I found that placing them near the bottom gave the most room for routing the coax over to the entry point. The two outermost holes are for mounting the plate into the enclosure and the bottom two holes are for the bracket for the ground strap.

I enlarged an existing hole from the previous feedline with a holesaw and cut enough conduit to be able to pass through the outside wall and stick out a few inches on the inside. (Picture 3) I sealed the outside with outdoor caulk and the inside with spray foam.

Ready to install with the ground strap attached. (Picture 4)

I sanded the surface of the aluminum plate nice and clean where the lightning arrestors and copper strap attached. I prepped the mating surfaces with SS-30 Copper JetLube. (Picture 5). With everything prepped, I mounted the enclosure to the outside wall (Picture 6) and attached the copper strap to the ground rod at the base (Pictures 7 & 8). The clamp used at the ground rod is



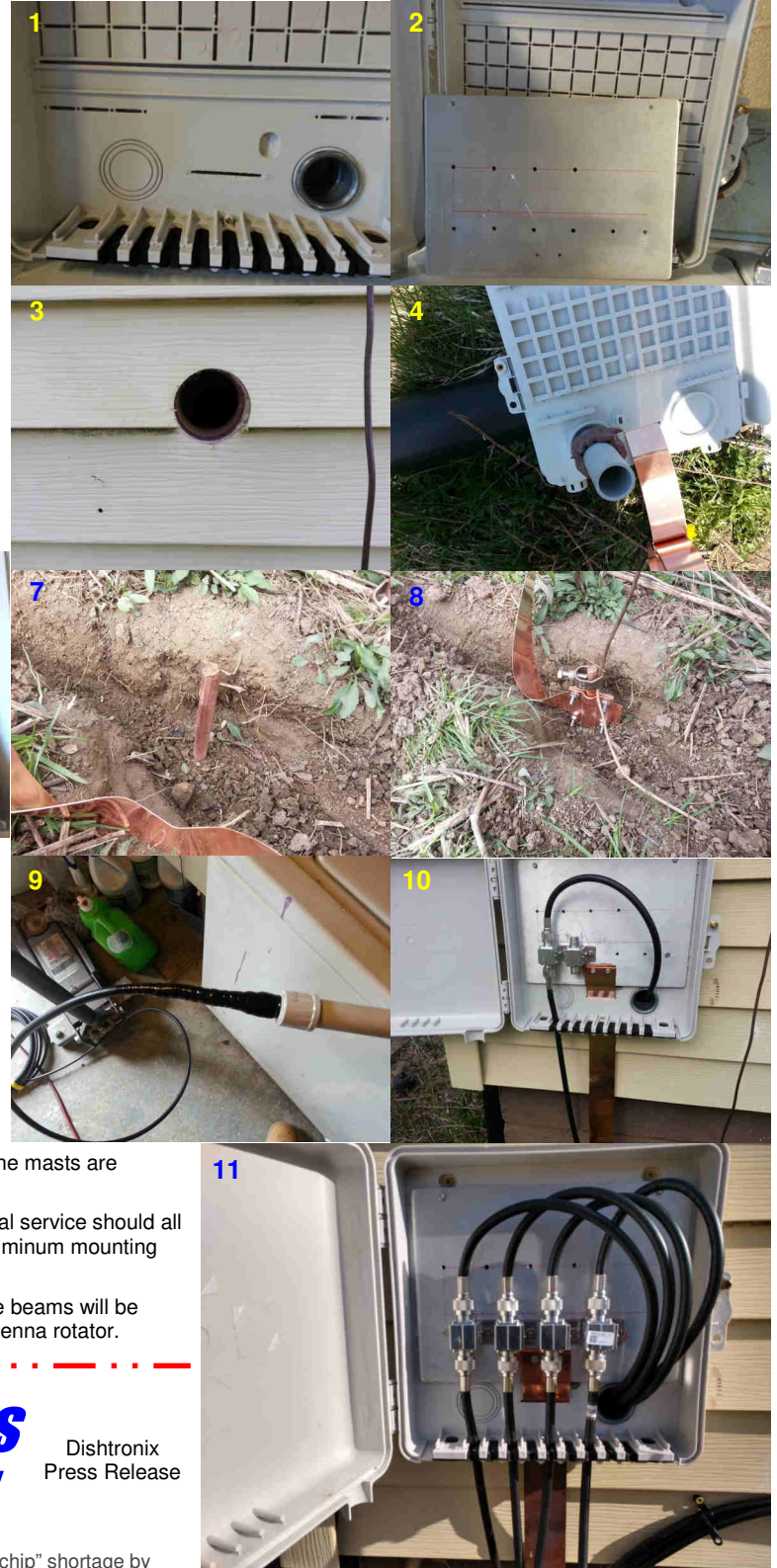
DXE-58R-112S-2 and I used 2" copper strap. I sanded the clamp and rod, and used SS-30 JetLube there as well.

All of the antennas feed points were sealed using the WB4GCS method consisting of a base layer of electrical tape, a layer of 3M Mastic, and then two more layers of electrical tape. (Picture 9) I used DX Engineering's 400MAX coax. The regular Times Microwave LMR400 was too stiff to fit inside the small enclosure (Picture 10), and the 400Ultraflex is nice, but was unavailable at the time that I was ordering coax. I used the solder-type Amphenol PL-259 connectors at the antenna and radio ends and crimp-type 'N' connectors at the lightning arrestors.

With four connections using this big coax, this enclosure is pretty much maxed out. (Picture 11) Not pictured are ground rods for each of the antennas which the masts are grounded to.

When done, all of the ground rods together with the ground rod for your electrical service should all be bonded together. A clamp and copper strap that was used to ground the aluminum mounting plate to the ground rod can be used for this.

I'll probably go with a larger enclosure for the other side of the house, where the beams will be installed, in order to have room for a diplexer and a lightning arrestor for the antenna rotator.



Ten Tec Discontinues Parts & Service in Sevierville TN

Dishtronix
Press Release

Dayton, OH, February 8th, 2022 – Undoubtedly everyone has heard of the so called "chip" shortage by now. The shortage isn't just microprocessors and memory but extends to all levels of the electronics industry, even including even very basic parts such as linear voltage regulators. No one has ever seen anything like this in the history of the electronics industry. The status of some critical parts like DSP processors are unknown if they will be produced again. Other parts like encoders are 36 weeks delivery. Some microcontrollers are showing more than a year delivery. Some transistors are showing 67 weeks delivery!

It isn't possible to repair units or build radios without parts. Irate customers are calling and emailing Dishtronix and complaining that units are not repaired and demanding returns. All repair radios are being returned to respective owners unrepaired. We do not have recommendations for anyone to do repairs. The inventory is not for sale.

As there are no guarantees that the shortages won't extend further into the future, there is no alternative except to suspend operations in Sevierville. Unfortunately we will no longer be able to answer email or telephone calls regarding Ten Tec amateur radio products.

Ten Tec is not out of business. We are developing new products and will introduce them if and when we can obtain components. When we have resources, we might put some of the parts online in the parts store, but this will not be anytime soon.



Interesting APRS Tracking

Paul Lusardi NØVLR

Imperial, PA, February 20th, 2022 – I took a trip from SW PA to NH and MA this weekend, and I ran APRS the whole time. (Also drove right by the ARRL exit in Newington CT – but didn't have time to stop in this time.)

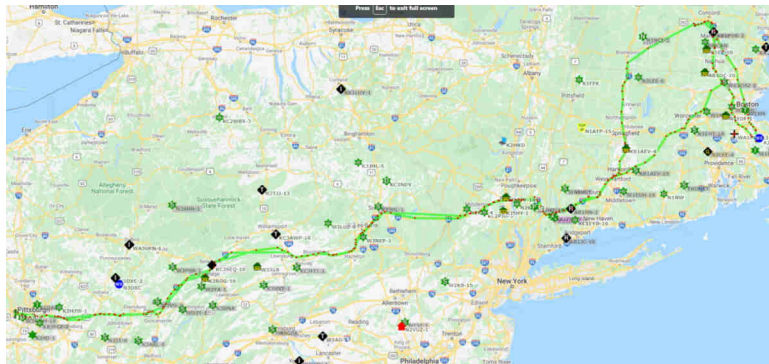
For those not aware of APRS, it is automated packet reporting system that along with a GPS connected, sends packet radio spots regarding location (amongst other data if you wish). There is an APRS worldwide server that collects all of those spots called APRS.FI and that is where I got this image from.

Each red dot is a received spot from my mobile station and the stations shown are those who heard my spot.

I used my trusty Kenwood D-700 (which is now almost 20 years old) and I had it set to high power (50W on sending APRS spots) to get best results. (NØVLR-9 is my station ID)

Notice the green line where no red dots – those are dead zones.

This track shows both TO and FROM routes this past weekend.



Amateur Radio in Ukraine Ordered Off The Air For 30 Days in State of Emergency

American Radio Relay League

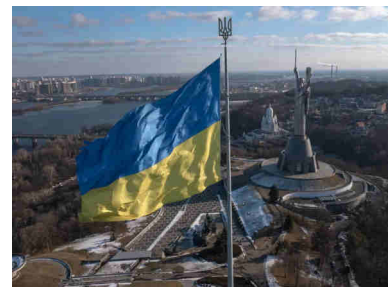
Newington, CT, February 24th, 2022 – A state of emergency was declared in Ukraine just prior to the Russian military invasion. Among other things, the February 24th decree from President Volodymyr Zelensky will remain in effect at least for 30 days and may be extended. As published on the website of the Verkhovna Rada, Ukraine's unicameral legislative body, the state of emergency includes regulation of TV and radio activities and "a ban on the operation amateur radio transmitters for personal and collective use."

The decree also imposes a ban on mass events and on strikes and authorizes checking the documents of citizens, and if necessary, conducting searches on persons, vehicles, cargo, office space, and housing. A curfew could be imposed. "The situation changes rapidly," IARU Region 1 Secretary Mats Espling SM6EAN, said. "IARU Region 1 continues to monitor the development and expect all radio amateurs to follow their national laws and regulations."

IARU subsequently issued a short statement: "IARU is an apolitical organization focused on promoting and defending amateur radio and the amateur radio services. The Amateur Radio Service is about self-instruction in communications and friendship between people."

The DARC HF Committee issued this statement on February 27th: "Any radio amateur currently transmitting from Ukraine is risking his or her life. If you hear a Ukrainian station, do not broadcast its call sign, location, or frequency – whether on the band, in a cluster or on social media. You may be putting lives at risk."

Some stations with Ukrainian call signs may still be active, since an exception was made for stations in the Donbas region of eastern Ukraine (eastern Donetsk and Luhansk oblasts), which have special legal status owing to Russia's occupation since 2014. Stations from Ukraine with the letter "I" after the number in the prefix are located in this region and can, at least in theory, be active.



Newington, CT, February 28th, 2022 – ARRL has filed [comments](#) with the US Forest Service (USFS) seeking an exemption for amateur radio facilities to a proposed new \$1,400 annual administrative fee. The USFS proposal resulted from requirements in the Agriculture Improvement Act of 2018 (aka "the Farm Bill"), which directs the Forest Service to collect fees for issuing communications use authorizations based on the cost to the agency for processing the applications, maintenance, and other related activities. These fees would be in addition to annual rental and cost-recovery fees already being collected.

On February 24th, the Forest Service filed a [Notice](#) with the *Federal Register* that the comment filing window will be re-opened on March 1st and additional comments will be accepted through March 31st. Any radio amateurs missing the first comment period or wishing to add to their earlier comments are encouraged to do so during this additional period.

"Although the discussion put forward by the Forest Service in its proposal focuses on commercial uses, the proposal would sweep within its requirements amateur radio uses that are solely noncommercial," ARRL said in comments filed on February 22nd. "Radio amateurs establish and maintain facilities at certain locations for public service purposes with no remuneration or reimbursement. Unlike broadcasters and commercial wireless and fiber providers, radio amateurs are uniquely barred by the terms of their federal licenses from receiving compensation of any sort."

"Non-commercial and uncompensated communication uses by radio amateurs within Forest Service areas long have served the public interest in many ways, among them by providing the means for otherwise unobtainable emergency communication capabilities in times of need," ARRL noted. "Amateurs perform this valuable public service without cost to taxpayers. The importance of these capabilities [has] been demonstrated repeatedly. The skills of amateur operators have served our country well with their carefully located equipment when enabling exchanges of possibly life-saving messages in difficult terrain during forest fires, extending communications assistance help during hurricanes, and providing communications capabilities during search-and-rescue missions in remote areas."

ARRL stressed that equipment, maintenance, and other costs associated with amateur radio facilities on USFS lands "are borne solely by the volunteer radio amateurs themselves."

ARRL continued, "Commercial applicants usually request more extensive use of the lands administered by the Forest Service, and these requests necessarily result in more complex issues having to be considered and resolved."

"It is foreseeable that many radio amateurs providing these services would have to opt to withdraw and cease their work," if not exempted from the proposed fees, ARRL said. "In many cases the most useful locations for needed coverage from their stations is uniquely on Forest Service lands. In short, the proposal to include volunteer uncompensated amateur service applicants with the commercial wireless service and broadcast applicants is grossly inequitable. There is a disparity in the amount of resources necessary to consider applications from radio amateurs as compared to that required by commercial applicants."

"[O]ur best estimate is that there are fewer than 100 covered amateur locations, but those likely are unique and essential to covering forested areas in times of need, such as forest fires or lost hikers," ARRL said. "These dissimilarities in complexity and scope should be recognized in this fees proposal and amateur radio applications exempted."



WPA Section News

Joe Shupienis W3BC, ARRL Western Pennsylvania Section Manager



Falls Creek, PA, February 25th, 2022 – **WPA Hamfest Season** is here, and several are already scheduled.

- ♦ On Saturday, March 12th, Boy Scouts of America Venture Crew 73 will host the Warren County Hamfest at the Youngsville Free Methodist Church.
- ♦ After that, the Two Rivers Amateur Radio Club will host the 50th TRARC Hamfest/Computer Show at the McKeesport Palisades on Sunday, April 3rd.

Even if your group is planning a scaled-back event due to the pandemic, be sure to apply for ARRL Sanctioning, so you can receive valuable prizes to give away, and have the ARRL Table

set up with our Section Staff.

More will be announced as their scheduled dates get closer.

Help Wanted: Our Western Pennsylvania Section is **looking for a Volunteer DXCC Card Checker** to replace the late Captain Jack KA3HPM. Please contact Section Manager W3BC for information.

Section Nets:

- ♦ The Western Pennsylvania Health and Wellness Net meets on 3983 kilohertz every weekday morning at 9:00 am. You are all invited to check in daily.
- ♦ The Central Area PEMA ACS Net meets every Sunday morning at 8:30 am on 3993.5 for stations in Potter, Clinton, Centre, Mifflin, Huntingdon, Blair, Bedford, Fulton and Franklin Counties
- ♦ The Western Area PEMA ACS Net for the remaining 24 WPA Counties begins at 9:00 am every Sunday on 3990.5 kilohertz.
- ♦ If you are interested in handling traffic, check in to the Western Pennsylvania Phone Traffic Net, every day on 3918 kHz at 5:30 pm. Note the time is 5:30 pm every day, year-round. Back-up frequency is 3913 kHz.
- ♦ And don't forget the Western PA Digital Voice Net every Wednesday evening at 7:30 on DMR talk group 31422.

Public Service: We are already being invited to participate in several new public service activities, including one that is a multi-day orienteering event. If your ARES group is planning to participate or needs additional help to participate in public service events, please keep your DEC and our SEC in the loop, as early as possible. Many hands make light work.

If you would like to have your events and activities publicized, please contact me (W3BC) for assistance.

73 and Press ON!



Some New Rules Going Into Effect This Year for Field Day 2022

American Radio
Relay League

Newington, CT, February 9th, 2022 – After taking a few detours over the past couple of years due to the COVID-19 pandemic, **ARRL Field Day** rules are being updated on a permanent basis starting this summer. ARRL conducted a Field Day community survey with invitations propagated far and wide, and direct emails sent to more than 15,000 individuals and ARRL-affiliated clubs. After sorting through, reviewing, and discussing the survey results, the ARRL Programs and Services Committee recommended a number of rule changes for ARRL Field Day, which will take place this year over the June 25th – 26th weekend.

Starting this year, the maximum PEP output for a transmitter used by anyone submitting a Field Day log will be 100 W. The power multiplier of 2 will remain in place, and the high-power category will be removed from the rules. Until this year, the maximum low-power limit had been 150 W for most ARRL-sponsored operating events. The power multiplier will remain at 5 for QRP participants running a maximum of 5 W or less. As previously announced, 100 W is now the low-power category limit for all ARRL and IARU HF Contests, effective January 1st, 2022.

A couple of changes instituted initially as accommodations for the COVID-19 pandemic will remain. Class D (Home) stations will continue to be able to earn points for contacts with other Class D stations. The club aggregate scoring change initiated in 2020 as a temporary measure will become part of the permanent rules. In the aggregate scoring plan, the scores of individual stations are combined under the score of a single club.

Another change, involving Rule 7.3.2 Media Publicity, has been modified. Rules to date have offered 100 bonus points for attempting to obtain publicity and demonstrating same. With the ease of posting via Facebook, Twitter, Instagram, and various other media websites, Field Day participants will now be required to obtain publicity, not just try to do so. Any combination of bona fide media hits would qualify for the bonus points. For example, posting the details of your upcoming or ongoing Field Day activity, or your Field Day results, on a club or news media site, on Facebook, or via Twitter and Instagram would meet the bonus criteria. Photos and videos are encouraged as part of media posts.

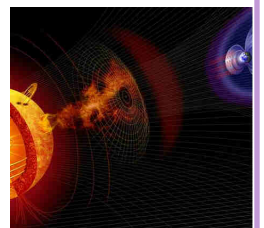
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“Unfortunately, the satellites deployed on February 3rd were significantly impacted by a geomagnetic storm on Friday [February 4th].” SpaceX announced this week. “These storms cause the atmosphere to warm and atmospheric density at our low-deployment altitudes to increase. In fact, onboard GPS suggests the escalation speed and severity of the storm caused atmospheric drag to increase up to 50% higher than during previous launches.”

The satellites were commanded into a safe mode, where, as SpaceX explained, “they would fly edge-on (like a sheet of paper) to minimize drag — to effectively ‘take cover from the storm’ — and continued to work closely with the Space Force’s 18th Space Control Squadron and LeoLabs to provide updates on the satellites based on ground radars.”

A preliminary analysis showed that the increased drag at the low altitudes prevented the satellites from being moved into higher orbit, and up to 40 of the satellites will reenter, or already have reentered, Earth’s atmosphere.

“The deorbiting satellites pose zero collision risk with other satellites, and, by design, [burn up] upon atmospheric reentry — meaning no orbital debris is created and no satellite parts hit the ground,” SpaceX said.



WASHFest 2022: Door Prizes



DX Engineering generously donated two \$100 DXE Gift Certificates, which were given away as door prizes. Everyone entering the front doors got a ticket, with two random drawings during the morning (although the winner had to be present).

Congratulations to Mike K3AIR of Washington, PA (left), and Robert AG3U of Cheswick, PA (right), both shown receiving their gift certificates from Chuck KC3ELA.

And our thanks again to DX Engineering for their donation!

Photos courtesy of and (c)Copyright 2022 Curtis Turner KB3CMT



WASH 2022 2 Meter Simplex Contest Results

Hello, all! Thank you all for playing this year. It seems like some unlucky stars aligned this year and deprived us of many of our regular faces, but I have heard that the event was still an enjoyable time for all.

I am looking forward to some improved participation next year, as things hopefully begin settling after the recent ordeals.

In the meantime, I hope to see all of your bright and shining faces at WASHFest 2022!

— Chuck Bihun III, KC3ELA WASH 2 Meter Contest Chair

CALL	LAST NAME	FIRST NAME	STATION	SCORE
KC3GMM	SUEHR	NATHAN E	M	3312
K3VX	COMDEN	LARRY	M	2193
KA3KSP	GRAZULIS	JIM	F	1653
W3ON	GESSNER	CHARLES	M	1550
KB3ORR	COX	BRIAN F	M	1190
K3SEM	SEMROD	STEPHEN	F	644
N3EVN	BUSSARD	JEFF	F	360
N3FB	BOBRO	FRANK	F	345
KC3STY	GEARY	MITCHELL	F	168
KC3OHE	KIMBLE	DOUG	F	154
KC3MMC	JENNINGS	JOHN S	F	98
WO3X	GRAZULIS	JOHN	F	64
WB4GCS	SANFORD	JIM	F	36
K3GTx	LAWRENCE	DOUG	F	25

"Seen" at the WASHFest VE Test

Photos courtesy of and © Copyright 2022 Ron Notarius W3WN



WASHFest 2022

Photos courtesy of and © Copyright 2022 Ron Notarius W3WN



WASHFest 2022

Photos courtesy of and © Copyright 2022 Ron Notarius W3WN



WASHFest 2022

Photos courtesy of and © Copyright 2022 Ron Notarius W3WN



WASHFest 2022

Photos courtesy of and © Copyright 2022 Ron Notarius W3WN

Two more from Saturday's VE Session



Two Rivers ARC 50th Annual Hamfest

Sunday, April 18th, 2021, 8:00 AM—2:00 PM

The McKeesport Palisades

100 Fifth Avenue, McKeesport, PA 15132

Talk-in on 146.730 — Mobile Check In 146.52

Admission \$5

More Information at <http://www.trarc.net>

Or Contact Bill Powers (412) 260-5699 atsfbill2@gmail.com



Tri-State Radio Fest

Sunday, April 24th, 2022, 8:30 AM— 4:00 PM

Sponsored by the Pittsburgh Antique Radio Society

Center Stage Banquet Hall

1495 Old Brodhead Road, Monaca, PA 15061

Talk-in on 146.64 PL 131.8 General Admission \$5

More Information at <https://pittsburghantiqueradiosociety.org/>



Cumberland Valley ARC 2022 Hamvest

Sunday, July 30th, 2022, 8:00 AM— ??

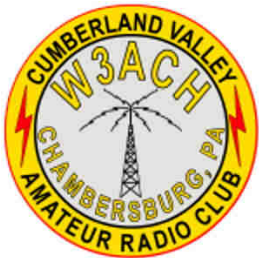
Grounds Open at 6 AM for Vendors & Tailgaters

CVAEMA Show Grounds

1501 Criders Church Road, Chambersburg, PA 17201

Talk-in on 147.120 PL 100.0 Admission \$5

More Information at <http://w3ach.org>



Uniontown ARC 72nd Annual Gabfest

Saturday, August 13th, 2022, 8:00 AM—???

Vendor Setup prior to 8:00 AM

W3PIE Clubhouse

433 Old Pittsburgh Road, Uniontown, PA 15401

Talk-in on 147.045 PL 131.8

More Information at <http://www.w3pie.org>



Some Pictures From KHØ

Photos courtesy of and © Copyright 2022 Tom Callas KHØ/KCØW

Saipan, Northern Marianas Islands, February 12th, 2022 – Going thru my iPhone today I found a few random photos which some may find slightly interesting.

Last month, I moved into a condo and have gone QRT from all amateur radio activity. I gave all of my telescoping aluminum antennas & coax away to local fisherman so they could construct HF antennas for their boats. The elements of my Yagi have now been repurposed as a line for drying clothes under the sun. After 65,000+ QSOs over the past 2.5 years it's time to call it quits.....I DO miss operating CW. FT8 & SSB not so much so.

I recently (kinda) recovered from a nasty bout with COVID, so priorities in my life have changed, Amateur Radio notwithstanding. I hope to one day get on the air from KHØ land again. Not looking forward to ordering all new gear from DX Engineering & having it shipped 7,500+ miles all over again. Until that day I will be lurking in the background & (hopefully) keeping up on my CW using contest trainers.

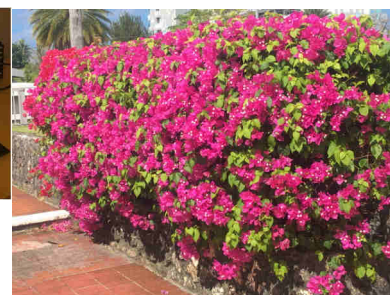
If anyone would ever like to come to Saipan and do some DXing, look me up. It would be my honor to assist you while you are here. Lot's of people are looking for KHØ on LoTW. (I don't "do" LoTW) Here's an example (photo 9) of what is possible if uploading to LoTW members while DXing from the Northern Marianas Islands:

Thanks for all of the QSOs over the past 2+ years. Hope to QSO many of you again from Saipan someday in the future after I find that ever allusive QTH.

See ya on the air again someday from KHØ land!



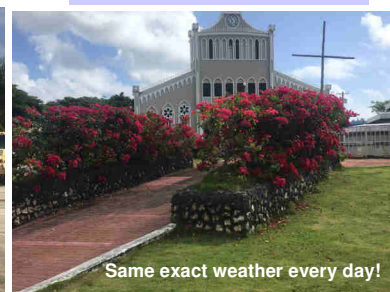
Can't say enough good things about JUMA amplifiers. Not a single hiccup, even after 65,000+ QSOs



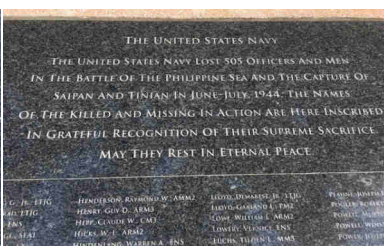
Sure don't miss those North Dakota winters!



Saipan is ready for any invasion



Same exact weather every day!



Freedom isn't free.

Thanks Marines

Thanks Navy

Thanks Army

Heil Sound Changes Hands

American Radio Relay League

Newington, CT, February 9th, 2022 – **Heil Sound** has changed hands. Founded by Bob Heil K9EID, and based in Fairview Heights, Illinois, Heil Sound is a manufacturer of microphones, microphone accessories, and audio accessories for both professionals and amateurs. The new owners are Heil Sound President and CEO Ash Levitt and Director of Operations Steve Warford. Sarah Heil, who was co-owner of Heil Sound, has retired, but Bob Heil will continue to do outreach work and amateur radio product design as Founder and CEO Emeritus.

"My life has been about achieving great sound, whether on the concert stage or in the amateur radio world," Bob Heil recounted. "I've watched Heil Sound go from a regional sound company to a world-class microphone manufacturer. This company has been my passion, but it is time for me to step aside. There is no better team to carry the company forward than Ash and Steve, and I have the utmost confidence in them."

Heil Sound is a name well known within the worldwide amateur radio community for its microphones and "boom set" microphone/headset combinations. The company marked its 50th anniversary in 2016. The company began in 1966 as Ye Olde Music Shoppe — a music store in Marissa, Illinois, Heil's hometown.

Heil initially made a name for himself working with music performers to provide sound reinforcement for their live gigs, initially supplying full sound system packages for venues and festivals throughout the Midwest and later working with world-class acts such as Humble Pie, The Who, The Grateful Dead, and Joe Walsh WB6ACU. Heil said it was the Dead's Jerry Garcia who suggested the Heil Sound name. Among other innovations, Heil created the quadraphonic sound system for The Who's "Quadrophenia" tour as well as the Heil Talk Box, made famous by Joe Walsh and Peter Frampton.

Levitt and Warford both started working with Heil Sound as teenagers, building and packaging products. Levitt took a different career path in academia for several years but continued to regularly consult with Heil Sound. He returned to Heil Sound full time in 2017 and assumed the role of president in 2020. Warford worked his way up in the company over the course of his tenure and, for the past several years, has been responsible for daily operations.

"Steve and I are honored to carry forward the legacy of Heil Sound," Levitt said. "We care very deeply about Heil Sound's role in the industry and intend to build on that going forward with new products and greater distribution. An important part of that role that we pride ourselves on is the connection we have with professionals and end-users. As a musician and former broadcaster, I have spent a lot of time on stages and in studios in front of a microphone and understand our users' needs. I and everyone at Heil Sound share a passion for what we do because it helps others achieve their creative endeavors."



(L – R) Heil Sound President Ash Levitt; Bob Heil K9EID; Director of Operations Steve Warford



OK... one last WASHFest Photo. "And that's all, folks!" (for this month)

3YØJ DXpedition to Bouvet Island, Press Release #8

Ken Opskar LA7GIA, Rune Oye LA7THA, Erwann Merriene LB1QI

Oslo, Norway, February 7th, 2022 – Since we signed the contract with Marama we have been working on fine tuning the dates and port of departure. Today we can confirm that the departure date for the 3YØJ DXpedition will be **January 6th, 2023**. It is complex to plan the logistics of such a huge project like the 3YØJ Bouvet DXpedition which involves many parties. The new dates are mainly related to the MARAMA vessel logistics, but as well the new dates enable us to return to Cape Town in late February 2023. We can confirm the scheduled duration of the DXpedition is 44 days and that we have reserved a week additional contingency at the end giving us more flexibility. We have contracted 22 days at Bouvet Island, and it means we will spend more than 3 weeks at Bouvet. As we have the flexibility to still decide the port of departure Ushuaia or Port Stanley this will be done at a later stage.

It is with great pleasure we inform that we have completed all equipment selection for this trip. For the station setup we will lineup 12 stations, that will include 8 human mode CW/SSB stations and 4 FT8 stations so to achieve our new goal of 200,000 QSOs. We will be using the Elecraft K3S, a well proven in the field DXpedition radio as the CW/SSB radio and SunSDR2 DX as the FT8 radio.



During peak time we will run up to 12 radios simultaneously by using 403A triplexers and InnovAntenna/Wimo tribanders together with Messi&Paoloni coax. We plan for minimum downtime on the radios, and to achieve this we will setup the 4 FT8 stations to run 24/7 so that these can either be run by one operator separately or be run by any other operator in a simplified SO2R setup. This will be done so that each operator can log into the FT8 machine from his operator position and run CW/SSB and FT8 simultaneously. Running several radios by a single operator this way has shown to be very efficient.

At Bouvet we are pleased to announce that we will use the well-known S.P.E. EXPERT amplifier. We will bring with us various models where the 1.5K-FA will be the main model, but for 160m we will be using a 2.0 kW amplifier and a vertical running a K3S with diversity RX. We will also have several spare amplifiers.

We are also pleased to inform that as the RX antenna system we will be using a ground independent RX loop system developed by LZ1AQ. This RX antenna will be located 300 meters away from the camp and will provide us with a RX antenna for 160-30m with 8xRX output signals. It also includes possibility to switch from loop to dipole mode.

We have procured 5 rugged YANMAR diesel generators to provide the station supply that will also include 1 spare generator.

Going to Bouvet is a huge undertaking financially and it would simply not be possible without the support from the vendors and our sponsors Expert Electronics, S.P.E., 403A, Messi&Paoloni and LZ1AQ. If you want to have the opportunity to work the rare #2 DXCC Bouvet island, please consider supporting us by donating upfront.

You can follow our plans from our website and the 3YØJ Facebook pages:

<http://www.3YØJ.no>

<https://www.facebook.com/groups/3093983840726129>

Thank you!



WASH Field Day 2022

Because Babcock was not reserved far enough in advance for 2022, we will at Sunset Hills Grove for Friday through Sunday, June 24th through 26th.

The shelter and surrounding area is at the junction of 100 Acres Drive and Texas Road, with access from either road.

Lots of trees and open space to adapt to our use.
Hard surface parking near the shelter, and also far enough away for the Tower Trailer.

— Larry Comden K3VX



DX News Briefs

FJ/DK6AS has been very active on 40 – 10 CW. Length of stay is unknown. QSL via DK6AS

FR/F1DHX has also been very active, including spots on 15 SSB. Length of stay is unknown. QSL via F1DHX

FS/KC9FFV has also been very active, 40 – 6, holiday style, SSB & Digital. Length of stay is unknown. QSL via IZ1MHY

Recent activity has also come from **J2ØMR**, operated by KN9U who has been deployed there by the US Navy. He is operating in his spare time. Length of stay is unknown. QSL via LoTW

5V7JA has been very active on FT8, primarily 20 & 30 meters. QSL via eQSL or LoTW.

6W/PE1PRB just received his license and will be QRV in his spare time. QSL via PE1PRB

3A/F4IXC will be QRV through 6 March. QSL via F4IXC

7Q6M will be QRV through 13 March, including the ARRL DX SSB contest, 160 – 6 meters. QSL via K6ZO

4S7DRG and **4S7KKG** will be QRV through 9 March. Both plan to be on 40 – 15 meters, SSB and FT8. QSL 4S7DRG via DK7DR and 4S7KKG via DCØKK

F1DUZ is QRV as **FG4KH** through 15 March, 160 – 20 SSB FT8 and EME QSL via F1DUZ

J88PI has been postponed by GW4DVB due to a "Covid outbreak." He is planning to reschedule once an alternative date is available. More information at <http://www.g4dvv.co.uk>

8Q7CQ will be QRV 4 – 18 March, 80 -10 including 60 meters, SSB and Digital modes. QSL via MØOXO

D6ØAB will be QRV 16 – 29 March, including the CQ WPX SSB contest, 160 – 6 meters. QSL via K6ZO

FH/K6ZO will be QRV sometime between 18 – 23 March, as a side trip during the **D6ØAB** DXpedition noted above. QSL via K6ZO

CT9/DF7EE will be QRV from 22 March – 1 April, holiday style HF including 60 meters. Operation may include the CQ WPX SSB contest as **CQ3W** or **CR3A**. QSL via ClubLog

9H/TA1HZ will be QRV 23 – 29 March, holiday style, including the CQ WPX SSB contest. QSL via TA1HZ

3A/IK1TTD will be QRV 25 – 27 March, including the CQ WPX SSB contest. QSL via IK1TTD.

8Q7DX will be QRV 13 – 27 April, holiday style, 80 – 10. QSL via E73Y

QSL Routes

5T5PA via PA5X	II5ANT via IZ5BTC	TL8AA via I2YSB
7T22ANT via IK2DUW	IO5O via IK5RLP	TM3ZZ via F4HIK
8C9MGP via HA3JB	IR4E via IK4ZHH	TM4S via F6HBI
8Q7XQ via MØOXO	J643DS via EB7DX	TM72G via F4GDO
8Q7DX via E73Y	J643Z via J69Z	TM9AP via F6GYH
9K2BS via EC6DX	J68HZ via K9HZ	TO1Q via F1ULQ
A6ØSFD/2 via EA7FTR	KH7M via KH6ZM	TO3Z via F6HMQ
A91KWT via EC6DX	LA1ØØB via LA1B	TO4A via VE3DZ
CQ8EE via OZ2I	LG2Ø22WP via LA7RRA	V26K via AA3B
CR6K via CT1ILT	M7K via MØSDV	V3A via MØOXO
DP44WCA via DF6EX	MX7DX via M7DX	V3T via WCØW
DL75HES via DL4CR	OX3LX via OZØJ	V31QV via DJØPQ
ED1R via EC1KR	OX7AM via OZ1ACB	V47UM via W3UL
ED7W via EC7WR	P4ØF via N2TK	VJ3A via VK3JA
EG485FIM via EA7URF	P4ØF (2013) via	VK5MAV/p via
EH3CAT via EB3JT	UA3DX	VK6T via EA7FTR
EH5AAW via EA5N	PA515ØEVH via	XF1F via EA5GL
FS/KC9FFV via IZ1MHY	PF1SCT	YRØUCRR via YØ5KDV
HBØA via HBØFL	PZ5G via DJ4EL	YU65HQR via YU1HQR
HR5/F2JD via F6AJA	PZ5GE via DJ4EL	ZV7AA via PY7AA
I5ØBYL via I5BYL	R8ØIAS via RZ5D	Z8L via PT2ØP
IB1D via IK1TAZ	SD6M via SA6BGR	ZY1F via EA7FTR
IIØØGB via IT9YBL	SD7M/1 via DF9TM	
II2S via IZ2FOS	SD7W/1 via DL2SWW	
II2V via IK2AQZ	SP6ØANT via SP3POB	

Thanks to the NJDXA DX News Reflector, the DX-QSL Reflector, 425 DX News, OPDX News, DX Coffee, DX World.Net, ICPO Bulletin, & ARRL DX Bulletin for our DX News information. Thanks also to the ARRL DXCC Desk, & Bernie McClenny W3UR /The Daily DX for confirmations & additional information.



WASH Classifieds

Information shown here is as supplied to the **WASHRag**. Condition as stated, and all sales should be considered "as-is" unless otherwise noted. All subject to prior sale or withdrawal from sale at the owner's discretion. All responsibility for this information lies with the source and not the **WASHRag** or the **WIRELESS ASSOCIATION OF SOUTH HILLS, INC.**

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"All-Risk" Amateur Radio Equipment Insurance Plan for:

Radio Equipment Computer Equipment
Antennas Rotors & Towers Computer Media & Software
Mechanical Breakdown & Electrical Damage Coverage



Antenna Zoning or PRB-1 Issues?

Contact: **Michael S. Lazaroff K3AIR, Esquire**

Lazaroff & Suhr, Attorneys at Law

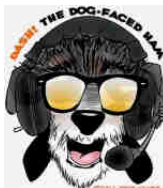
277 West Main Street, Saxonburg, PA 16056

Phone: 724-352-4905

The **WASHRag** Masthead is courtesy of Jeff Murray K1NSS, creator of DASHToons & Dash the Dog Faced Ham!!

Find the online cartoons and stories of Dash the Dogfaced Ham & more at <https://www.jeffk1nss.com> !

Shop for Dash items at his online store on Café Press, www.cafepress.com/shopdash



US Amateurs by Class as of February 28th, 2022

Novice	7,783
Technician	429,042
General	195,836
Advanced	37,986
Extra	160,354
Club	12,495
Total	843,496
All-Time High	02/28/2022 843,496

Last 90 Days:

New Amateurs	6,617
Callsign Changes	2,157
Class Changes	3,121
No Longer Licensed	3,121
All Updates (*)	27,892

(*) Includes renewals, address changes, etc.

Information gathered from FCC Daily Updates, courtesy of Hamdata.com

Latest Region 3 Sequential Calls, Issued as of February 28th, 2022:

Group A	AC3IM
Group B	KF3EU
Group C	(none available / all issued)
Group D	KC3TOG

Information gathered from FCC Daily Updates, courtesy of Hamdata.com

If you've downloaded the **WASHRag** from the N3SH web site, or picked up a copy from a friend... you can sign up to have the PDF copy sent directly to your email. You **do NOT** have to be a member of **WASH**!

Just send an email to w3wn73@gmail.com and we will take care of the rest!



FCC News

Courtesy of the American Radio Relay League

Newington, CT, February 24th, 2022 – The FCC Enforcement Bureau has re-issued an earlier **Enforcement Advisory** that licensees in the Amateur Radio Service, as well as licensees and operators in the Personal Radio Services, are prohibited from using radios in those services to commit or facilitate criminal acts.

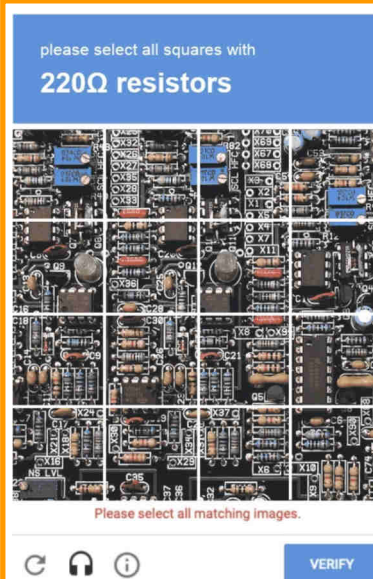
"The Bureau recognizes that these services can be used for a wide range of permitted and socially beneficial purposes, including emergency communications and speech that is protected under the First Amendment of the US Constitution," the FCC said. "Amateur and Personal Radio Services, however, may not be used to commit or facilitate crimes."

As it did in advisories in 2021, the Enforcement Bureau is reminding amateur licensees that they may not transmit, "communications intended to facilitate a criminal act" or "messages encoded for the purpose of obscuring their meaning."

"Likewise, individuals operating radios in the Personal Radio Services, a category that includes Citizens Band radios, Family Radio Service walkie-talkies, and General Mobile Radio Service, are prohibited from using those radios "in connection with any activity which is against Federal, State or local law.

"Individuals using radios in the Amateur or Personal Radio Services in this manner may be subject to severe penalties, including significant fines, seizure of the offending equipment, and, in some cases, criminal prosecution.

"To report a crime, contact your local law enforcement office or the FBI," the FCC advised.



Do you think that those ReCaptchas have gotten just a bit out of hand?

Image courtesy of Zach Schinder N8FNR

Newington, CT, February 10th, 2022 – A geomagnetic storm on February 4th "significantly impacted" the launch of some 49 Starlink satellites. The company said the satellites were intended to achieve low-Earth orbits after being sent aloft on a Falcon 9 launcher. Starlink is a satellite internet constellation operated by SpaceX to provide satellite internet access. SpaceX said it initially deploys its satellites into low-Earth orbit so that "in the very rare case any satellite does not pass initial system checkouts, it will quickly be deorbited by atmospheric drag." All did not go as planned, however.

"Unfortunately, the satellites deployed on February 3rd were significantly impacted by a geomagnetic storm on Friday [February 4th]," SpaceX announced this week. "These storms cause the atmosphere to warm and atmospheric density at our low-deployment altitudes to increase. In fact, onboard GPS suggests the escalation speed and severity of the storm caused atmospheric drag to increase up to 50% higher than during previous launches." The satellites were commanded into a safe mode, where, as SpaceX explained, "they would fly edge-on (like a sheet of paper) to minimize drag — to effectively 'take cover from the storm' — and continued to work closely with the Space Force's 18th Space Control Squadron and LeoLabs to provide updates on the satellites based on ground radars."

A preliminary analysis showed that the increased drag at the low altitudes prevented the satellites from being moved into higher orbit, and up to 40 of the satellites will reenter, or already have reentered, Earth's atmosphere.

"The deorbiting satellites pose zero collision risk with other satellites, and, by design, [burn up] upon atmospheric reentry — meaning no orbital debris is created and no satellite parts hit the ground," SpaceX said.

Has Roadway found the tower yet?



WASHfest 2023

The South Hills Hamfest — Now in our **TWENTY SEVENTH** big year!
Sponsored by the WIRELESS ASSOCIATION OF SOUTH HILLS AMATEUR RADIO CLUB, INC.

Sunday, February 26th, 2023

8:00 AM until 3:00 PM Rain or Shine (or Snow!)

Home Economics Building, South Park

3735 Buffalo Drive, South Park Township, PA 15129

Behind the Allegheny County Police Station on Brownsville Road

Talk-In on 146.955(-) and 443.650(+) 131.8 PL

Donation \$5



(800) 545-8881

Breakfast & Lunch will be available!



FREE Coffee for the entire Hamfest
courtesy of HAM RADIO INSURANCE ASSOCIATES
of Canonsburg, PA

MAIN PRIZES — You've Got to Play to WIN!

First Prize: To Be Announced

Second Prize: To Be Announced

Third Prize: To Be Announced

Additional Hourly Door Prizes! 2 Special Black Box Prizes (Separate Drawing)!

Main Prize tickets are \$2.00 each, 3 for \$5.00, 7 for \$10, 15 for \$20, 40 for \$50, 90 for \$100

All Prizes Subject to last-minute changes

For Table Reservations, or More Information, Please Contact:

Carol Danko KB3GMN at (412) 884-1466 n3sbf@comcast.net

E-mail us directly at washarc@yahoo.com Check out our website too! www.n3sh.org

Please Note: Early Table Reservations must be paid in full on or before January 31st, 2023.

Reservations received after February 1st, 2023 must include payment in full.

Reserve now... we have sold out in advance twelve years running!

Hamfest Table Reservation Form—Please PRINT LEGIBLY ALL INFORMATION

Name: _____ Email: _____

Address: _____ Phone: () _____ - _____

City: _____ State: _____ Zip: _____

Call Sign: _____

Tables WITH Electricity: _____ X \$15.00 = _____

Tables WITHOUT Electricity: _____ X \$12.00 = _____

5 Or More Tables w/o: _____ X \$10.00 = _____

Please make all checks payable to:
WIRELESS ASSOCIATION OF SOUTH HILLS
PLEASE MAIL RESERVATION TO:
WASHFEST 2023
c/o CAROL DANKO KB3GMN
4246 Seton Drive
Pittsburgh, PA 15227-1244

We reserve the right to resell any tables not occupied by 8 AM, unless prior arrangements have been made!



WIRELESS ASSOCIATION OF SOUTH HILLS, INC.

Membership Application, New or Renewal



I would like to join WASH! I am interested in the following type of membership: ☐ **New Membership** ☐ **Membership Renewal**

(check quarter _____)
(check one)

	<input type="checkbox"/> 1st Qtr Jan-Mar	<input type="checkbox"/> 2nd Qtr Apr-Jun	<input type="checkbox"/> 3rd Qtr Jul-Sept	<input type="checkbox"/> 4th Qtr Oct-Dec
<input type="checkbox"/> (F1) Full Membership:	\$20.00	\$15.00	\$10.00	\$5.00
<input type="checkbox"/> (F2) Full Membership < 18 or > 65 yrs of age:	\$10.00	\$7.50	\$5.00	\$2.50
<input type="checkbox"/> (A1) Associate Membership:	\$10.00	\$7.50	\$5.00	\$2.50

☐ (FM1) Family Membership (\$3.00 x No. of household family members): \$ _____

Name(s): _____

Name: _____

Address: _____

City, State: _____

Home Phone: _____

Email Address: _____

New Members Only:

☐ I do NOT want to be added to the Club E-Mail Reflector

☐ I do NOT want to be added to the Electronic Newsletter Mailing List

[If you have an Email address, you Will be added to both lists UNLESS you choose to Opt-Out]

Signature: _____

Call Sign: _____

License Class: _____

Expires On: _____

Work Phone: _____

Birthday: _____

ARRL Member? ☐ Yes ☐ No Family ARRL Member? ☐ Yes ☐ No

Date: _____

Amount Enclosed: \$ _____

N3RDV has requested that all membership requests and renewals include an application so that his information is up to date

Please make your check or money order payable to the club treasurer, Mark Stabryla.
The Wireless Association of South Hills, Inc. reserves the right to accept or reject new memberships or renewals.
Please return completed membership form along with check/money order to the club treasurer or mail to:

WIRELESS ASSOCIATION OF SOUTH HILLS, INC.
c/o Mark Stabryla N3RDV, VP/Treasurer
1120 McKnight Drive
Bethel Park, PA 15102-2456



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The Daily DX, 3025 Hobbs Road,
Glenwood, MD 21738 Phone: 301-854-5650



Arghh!
What Mightst We Draw For Ye, Matey?



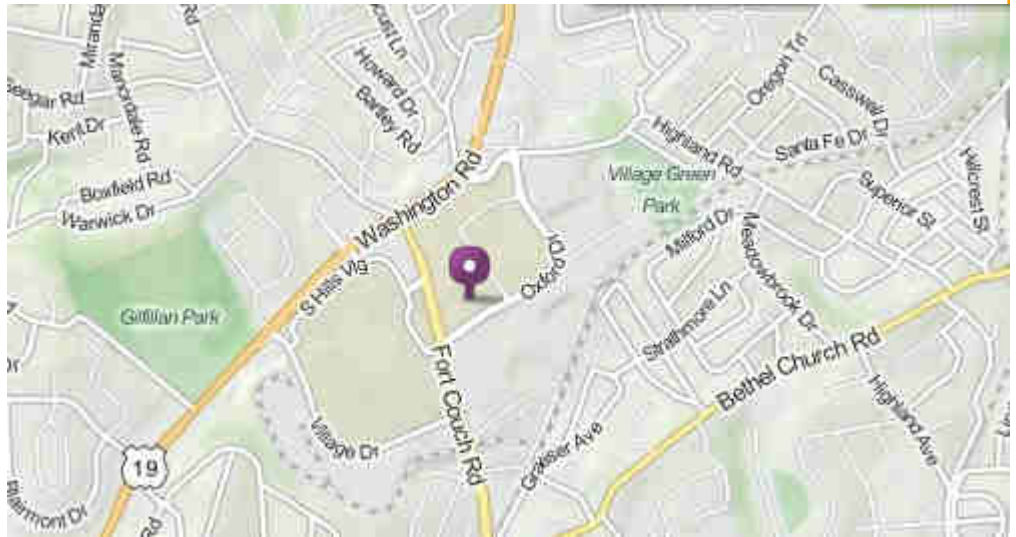
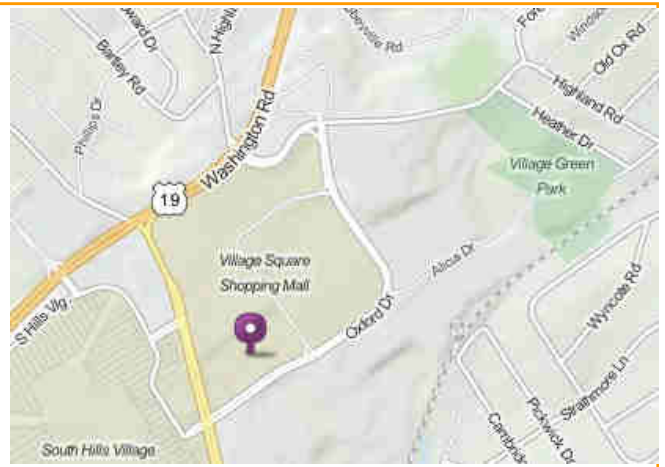
2022 WASH Meeting Location (*)

St. Clair Hospital Outpatient Center Conference Room

2000 Oxford Drive, Bethel Park PA 15102

Adjacent to Village Square Mall, across Ft. Couch Road from
South Hills Village Mall, just off of US Route 19

(*) whenever we can meet in person again, that is



The WASHRag

Wireless Association of South Hills, Inc.

Ron Notarius W3WN, Editor

3395 Rosewood Drive

Castle Shannon, PA 15234-2546



N3SH / WA3SH
NP2SH/B

www.n3sh.org
www.washarc.org

