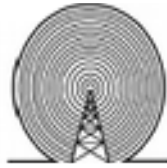


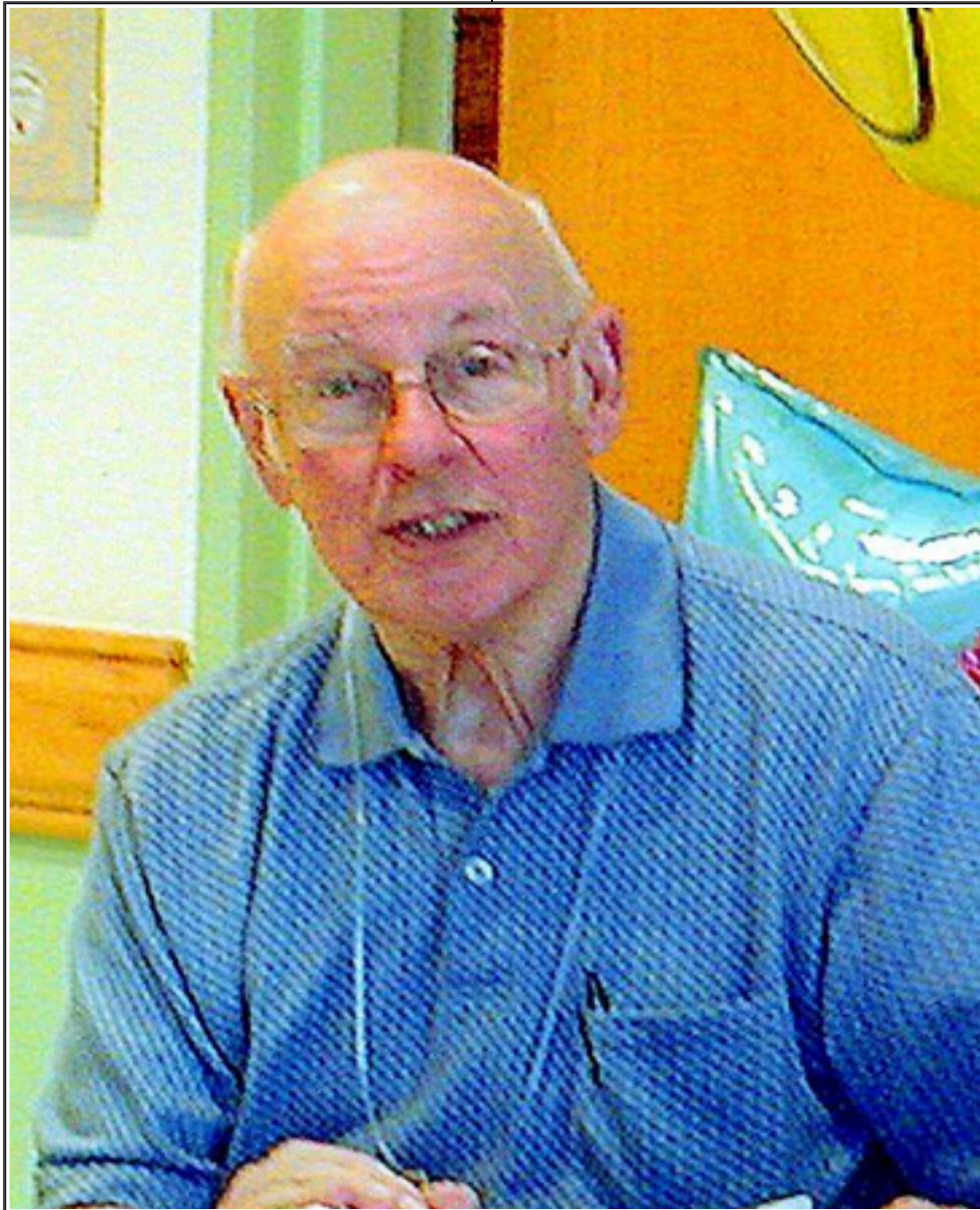
The Ham Arundel News



Providing Fellowship and Community Service through Amateur Radio Since 1951

February 2018

39th Year of Publication



Anthony 'Tony' Young, WA3YLO

May 26, 1933 – January 21, 2018

Anthony Young

Anthony (Tony) Young, age 84, died at home on January 21st, 2018 of natural causes, surrounded by his family who loved him dearly.

Born May 26 1933 in Quincy, MA, he attended Westford Academy, in Westford, MA and graduated in 1951. Upon graduation, Tony enlisted in the United States Navy and served active duty until 1955, attaining the rank of Communication Technician Second Class.

On Oct 15, 1955, he married Elaine Sivilich, of Pond Hill, PA. Tony and Elaine lived in Arlington, VA, Burgundy Village, VA, and Lexington, KY, before moving to Bowie, MD in 1963, where he resided for the remainder of his life. He worked for IBM for 32 years, until retiring in 1987.

Tony was an active member of St. Pius X Parish, serving over the years as both Chairman and member of the Parish Council, Lector, Choir Member, and Teller.

Tony also served on PG County Foster Care Review Board, and volunteered at the Bowie Senior Center and at the National Capital Radio and Television Museum.

Tony will especially be remembered as an avid Amateur Radio enthusiast and member of the Anne Arundel Radio Club, having served as the club president, club secretary, club treasurer, and having taught various classes over the years. He also served as the coordinator for the Mid-Atlantic Radio Club's widow's assistance program, to assist in selling the gear of ham radio equipment on behalf of widows/widowers whose spouses had passed away.



"In 1996, Tony became one of my first ham radio mentors. When he heard on the 'Holly Net' that I wanted to get on HF, he contacted me on the 2M repeater and I went over to his place.

He then made me a deal on a SK's HF rig, a Ten Tec Scout 555. That motivated me to learn and pass the Tech+ exam and 5WPM CW. When I passed my upgrade, I made my first HF contact on 10m to Germany.

Soon after Tony found me a tower to take down for a widow of a SK. When I climbed the tower with K3XZ, we saw two more large tall towers. K3XZ and I went over and introduced ourselves and met world renowned DXer and Contester Fred/K3ZO!

Tony's key was a bug, and man he could swing. Tony, thank you.

73s
Doug NA1DX

Survivors include his wife, Elaine Young, of Bowie, MD, his son, David Young and his wife Sarah, of Linthicum

Heights, MD, and his son Kevin Young and his wife Lisa, of Bowie, MD, and 5 grandchildren, Mark, Kaitlyn, Eleanor, Elizabeth, and Rachel.

I'm really sorry to hear that Tony is ill. He was a driving force in AARC during the '80s and early '90s and was a great facilitator of many good things. Among other services to the ham community, he provided me a lot of support in starting and maintaining the Bowie High School ARC.

Tony was always a cheerful, pleasant voice on the morning net as well as around the club and we OTs have been honored to have him as a friend. Please forward my warm wishes to him; I don't have any other contact info.

Tom / K3ORC



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VE Testing Schedule

Second Saturday of each month – Noon – AARC – Rick Steers / AB3XI
testing@w3vpr.org

Third Saturday of each month – 9AM – Laurel ARC – John Creel, 301-572-5124

Fourth Tuesday of each month – 6PM – MMARC – Mike Montrose / KA2JAI 443-310-4907 web site is tinyurl.com/marylandmobileers

To all exams bring:

- Picture ID
- Social Security Number or FCC Registration Number (FRN)
- **ORIGINAL** and a **COPY** of current FCC amateur radio license
- **ORIGINAL** and a **COPY** of all element credits (eg., FCC letters, old licenses or unexpired Certificates of Successful Completion of Examination-CSCE)

W1AW 2018 Winter Operating Schedule

ARLB001 W1AW 2018 Winter Operating Schedule

Morning Schedule:

Time	Mode	Days
1400 UTC (9 AM EST)	CWs	Wed, Fri
1400 UTC (9 AM EST)	CWf	Tue, Thu

Daily Visitor Operating Hours:

1500 UTC to 1700 UTC - (10 AM to 12 PM EST)
1800 UTC to 2045 UTC - (1 PM to 3:45 PM EST)

(Station closed 1700 to 1800 UTC (12 PM to 1 PM EST))

Afternoon/Evening Schedule:

2100 UTC (4 PM EST)	CWf	Mon, Wed, Fri
2100 "	CWs	Tue, Thu
2200 " (5 PM EST)	CWb	Daily
2300 " (6 PM EST)	DIGITAL	Daily
0000 " (7 PM EST)	CWs	Mon, Wed, Fri
0000 "	CWf	Tue, Thu
0100 " (8 PM EST)	CWb	Daily
0200 " (9 PM EST)	DIGITAL	Daily
0245 " (9:45 PM EST)	VOICE	Daily
0300 " (10 PM EST)	CWf	Mon, Wed, Fri
0300 "	CWs	Tue, Thu
0400 " (11 PM EST)	CWb	Daily

Frequencies (MHz)

CW: 1.8025 3.5815 7.0475 14.0475 18.0975 21.0675
28.0675 50.350 147.555
DIGITAL: - 3.5975 7.095 14.095 18.1025 21.095 28.095
50.350 147.555
VOICE: 1.855 3.990 7.290 14.290 18.160 21.390 28.590
50.350 147.555

Notes:

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

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

CWb = Morse Code Bulletins = 18 WPM

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

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

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

On Tuesdays and Fridays at 2330 UTC (6:30 PM EST), 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 0100 UTC (8 PM EST) Thursdays and 0100 UTC (8 PM EST) Fridays.

Audio from W1AW's CW code practices, CW/digital bulletins and phone bulletin is available using EchoLink via the W1AW Conference Server named "W1AWBDCT." The monthly W1AW Qualifying Runs are presented

here as well. The 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.

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.

All licensed amateurs may operate the station from 1500 UTC to 1700 UTC (10 AM to 12 PM EST), and then from 1800 UTC to 2045 UTC (1 PM to 3:45 PM EST) Monday through Friday. Be sure to bring your current FCC amateur radio license or a photocopy.

The W1AW Operating Schedule may also be found on page 90 in the January 2018 issue of QST or on the web at <http://www.arrl.org/w1aw-operating-schedule>.

Please note W1AW is now active on 50.350 MHz for all its CW practice, and CW, digital, and phone bulletins.

Used with permission ARRL Bulletin 1 ARLB001, ARRL Headquarters, Newington CT January 2, 2018

AA

Licensing Classes at AARC

Technician License Class.

[<https://www.w3vpr.org/node/334>]

Our next AARC 6 week training class begins March 3. Please check the Training page for details.

General License Class.

[<https://www.w3vpr.org/node/335>]

Our next General License Class will begin April 21st. It is not too early to preregister. Details are on the Training page.

Contact: Keith Miller, AE3D, Training

From the Desk of the Secretary



In case you don't know I have been trying to revamp the website. And one of the things I most wanted to include were some decent pictures.

But for that, I need your help.

I have lots of Field Day pictures, and license class pictures from the last few years, but not much else. I need pictures of meetings in the clubhouse, the shack, public service events, the various repeaters (including those filters on the wall), events like the AARC working Winter Field Day and the Maryland QSO Party, some shots of the MESH group, the Kitbuilding and Troubleshooting Workshops, people taking their exams in the clubhouse, members learning Morse Code, pictures of the Boards past and present, membership group pictures, and maybe some pictures of our ARES/RACES folks in action at their events like National

Night Out. I could even use some pictures of our club members from 1951 to 1992 to go with our club history. And what about Fox Hunt pictures? I don't even have a page for that yet. Anyone got any old snapshots from Chesapeake Appreciation Days?

The idea is to find pictures that clearly display the people, the activity, the events or equipment that our web site talks about. And most of us can tell a good picture from a bad one. So you don't have to send me every picture you took, just the ones you think I might be able to use. Now its no guarantee I'll use it, cause I may get too many on one topic and not enough on another.... but regardless.... any pictures you send me will be appreciated by me. The idea here is to make our website one that the general public will find interesting and compelling. Just like the old saying, "A picture is worth 1000 words."

If you have any in digital format, please feel free to email them to me, zipped or unzipped. They need not be big. Remember a lot of monitors are only 1200 pixels across. Just use "Pictures" as a Subject so my email filter knows what to do with them. If they are of the printed variety, and you can part with them for a couple weeks, I can take them home between meetings and scan them.

PS: Right now I am kicking myself for not taking pictures back in the 1980's.

73s...

Keith Miller, AE3D

Club Secretary

Thousands Getting Their Grids On!

And they're off! New Year's Day January 1 (UTC) marked the opening day for the ARRL International Grid Chase 2018 (IGC). Among those hitting their grids running was newly minted General-class operator Katie Thompsen, KI7HCX, of Mt. Vernon, Washington, who used the occasion to embark on the Chase *and* to get on HF for the first time using her own call sign. The 11-year-old

comes from a ham radio family. Her dad, Todd, is W7TAO, while her older brothers are Mason, K7MWT, 15 -- who upgraded to Amateur Extra at the examination session where his sister upgraded to General -- and Tanner, K7TMT, 13.

"She called CQ Grid Square Chase on 20 meters and very quickly made 44 contacts," her dad told ARRL. "She was very excited to work her first pileup and even had two Japanese stations QSO with her. She's anxious to continue participating in the grid square chase." Todd Thompsen said all three young radio amateurs are looking forward to participating in [Rookie Roundup](#) in April.



Katie Thompsen, KI7HCX. [Todd Thompsen, W7TAO, photo]

The IGC is off to a rousing start, with some 6,400 participants from around the globe already showing up on the [Leader Board](#) as of the morning of January 4. Point totals for the International Grid Chase are shown for confirmed contacts only, and, while the leader boards are not based on real-time data, they are updated several times a day. All contacts on all bands except 60 meters are valid for Grid Chase credit, provided both stations upload their logs to Logbook of The World ([LoTW](#)) and get a match.



The objective of the year-long event is to work stations in as many different Maidenhead grid squares as possible, and then upload your logs to [LoTW](#).

Each new grid square contact confirmed through LoTW will count toward your [monthly total](#). Stations do *not* have to exchange grid squares for a valid contact, although it's anticipated that many operators will do so. Some rare grid squares will be in demand. How about yours? Get on the air, and get behind *your* grid! If you can, get out there, and activate the scarce ones.

Members of the Marconi Cape Cod Radio Club [KM1CC](#) at the Cape Cod National Seashore will activate rare grid square FN51 January 18-19 for the International Grid Chase.

Complete details of the ARRL International Grid Chase 2018 appeared in the December 2017 issue of *QST*. For more information, [contact](#) the ARRL Contest Branch.

Used with permission The ARRL Letter for January 4, 2018

Antennas--Restore or Build...Read On

Whether you are restoring a 30 year old beam or putting a new one together there are better and inexpensive antioxidant joint compounds available for your use than were available years ago and in some cases, sadly, still in use by some antenna manufacturers.

First you want to prepare the aluminum for joining. If it is a new antenna the tubing will be polished and shiny. I take a wet sanding sponge and scuff up the area where the joint is made. Then immediately coat the two pieces of tubing with NOALOX (see below). You can use the 3M Softback Aluminum oxide sanding sponge wet or dry. On new aluminum dry work great. On old crusted oxidized aluminum you will want to use the sponge wet. If its really bad you might have to resort to an SOS Steel Wool soap pad to get the crud off and then the 3M pad for finishing.



Remember as soon as the aluminum dries it will start to oxidize. Its a good idea to do a joint at a time for optimal results. I've had antennas come apart easily with no oxidation 20yrs after performing this type of anti-oxidation preparation.

The anti-oxidation compound produced by IDEAL Electrical Supply manufacturing and sold at Lowes and other hardware stores works good. If you want to pay more you can go to your Electrical Supply House for a similar substance.

To prepare the inside of the tubing you can use inexpensive Stainless steel bore brushes in your hand-drill. Blow out the residue, wipe it clean, apply a lite coat of anti-oxidant (see below).

Today the compound's primary use is for low voltage wire connections 12 VDC, 115 VAC and 250 VAC wiring. The compound became popular when electricians were combining copper and aluminum wires which turned out to not be a good idea. Now the industry has moved back to copper wiring for the most part. The compound is simply applied to the aluminum tubing, inside and outside. Apply a dab on your finger and spread the gray paste to cover the areas of the tubing where they will join and be compression fitted. Once you have the tubing covered take a small cotton rag, like part of an old T-shirt, in-circle the tubing and draw the cotton cloth over the treated area. You will remove the excess paste this way and after a few times you can use this rag to apply the paste. The anti-oxidant carrier will remain. That's the an oxidant that will keep the oxygen from reacting with the aluminum. It is important to remember the paste conducts electricity but it is not designed for RF current.



When you join the aluminum tubing the compression created by the stainless steel hose clamp will penetrate the sealant, which by the way never hardens. Some radio operators use Vaseline to

form the sealant barrier and claim it works for this purpose. I've not tried it for this purpose.

Because the sealant doesn't dry out the clamping of the compression may not be as ideal as intended. If you look at antennas like Hy-Gain and some others they split the aluminum once, so you have just two sides clamping on to the inner tubing. I have found that a beam mounted high in the air will be under constant wind buffeting and will eventually loosen the compression joint, esp at trap connections. I take the take time and split the tubing a second time so there are four pressure points, in addition I drill I small hole through the stainless steel clamp-band and insert a stainless steel metal screw through the clamp which penetrates both pieces of aluminum tubing. No amount of wind is going to separate that compression clamp and screw. If you think you need more assurance you can dab a bit of paint over the screw and clamp-band.

After a little experience you'll become very proficient at preparing the tubing for joining. The same process can be used for connection clamps or screw connections for feed-point wires from baluns, etc.

Good Luck - 73
Dave Jordan, WA3GIN

Used with permission



YouTube videos on Antennas by N4DJ

I frequently get questions on antennas and Beverages/ BOGs in particular. I have taken some of my club presentations and uploaded them to YouTube. I have added an "Antenna" playlist to my YouTube channel. My plan is to add more.

Looking back, I find I have given quite a lot of club presentations in the Hampton/Norfolk/ Williamsburg area so I thought I would post the link that would go to my Antenna playlist on YouTube.

I presently have info on 80 meter half square, Beverages and BOGs as well as basic dipole configurations. One series I am working on started as a Blog called "Antenna Ramblings". It started as a result of Antenna questions and impromptu talks I tend to give at the drop of a hat. Some people think I talk too much, but maybe that's because I spend most of my operating time on CW?

<https://www.youtube.com/playlist?list=PLz0VTJrcB-AaXTIVNRAwxb-KFIG2pC9Ae>

73,
Don Johnson, Jr.
N4DJ

AARC Mesh Networking Group,
1:00 to 4:00 PM monthly, on the 2nd Sunday
AARC Clubhouse, Davidsonville, MD

Repeaters and Nets

2 Meter Repeaters

Location	Frequency	Tone	Notes
Davidsonville	147.105+	107.2	AARC Repeater with morning traffic net.
Glen Burnie	147.075+	107.2	AARC repeater Located in Northern AA County.
BrandyWine	147.150+	114.8	SMARC Repeater.
Prince Frederick	145.350-	156.7	SPARC/CARC Repeater.
Laurel	147.225+	156.7	Laurel ARC Repeater.
Millersville	146.805-	107.2	Repeater.

1.25 Meter Repeaters

Location	Frequency	Tone	Notes
Davidsonville	223.880-	107.2	AARC 1.25M repeater *check to see if tied into 7.105...
Millersville	224.560-	107.2	AARC repeater Located in Northern AA County.

70cm Repeaters

Location	Frequency	Tone	Notes
Davidsonville	444.400+	107.2	AARC 70 cm Repeater.
Annapolis	442.300+	107.2	AARC 70 cm repeater
Laurel	442.500+	156.7	Laurel ARC 70 cm Repeater.
Millersville	449.125-	107.2	Maryland Mobileers Repeater.
Upper Marlboro	443.600+	103.5	SMARC 70 cm Repeater.

Packet Stations

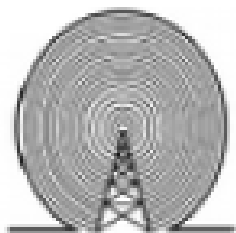
Location	Frequency	Call	Notes
Davidsonville	145.050	W3VPR	AARC Club packet node running JNOS
Davidsonville	145.010	W3VPR-5	Digipeter Relay to EOC Winlink
Millersville	145.010	W3AAC-5	Digipeter Relay to EOC Winlink
Glen Burnie	145.010	W3AAC-10	EOC Winlink system and digipeter

Amateur Radio nets

Name	Frequency (in Mhz)	Day	Time
Morning Commuter Net	147.105+ PL 107.2	Weekdays	0600
AARC Talk Net	147.105+ PL 107.2	Wednesday	2000
AA County ARES Net	146.805- PL 107.2	Sunday	2000
Baltimore Traffic Net	146.670-	Daily	1830
Boating Net	146.805- PL 107.2	Wednesday	1930
Maryland Emergency Phone Net	3.920	Daily	1800
Maryland-DC-Delaware Traffic Net	3.643	Daily	1900 and 2200
<u>Maryland Slow Net</u>	3.563	Daily	1930
React Net	442.300+ PL 107.2	1st Sunday	1930

We use **simplex 146.430 Mhz** frequently enough that you should probably program that into your HT or mobile. This is the go-to frequency for many 5K race/walk volunteering efforts, local communication, Field Day setup, and the like when we're not using a repeater.

AARC Two-Meter Net Controller Schedule — 2018



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

Thomas Fire Response Also Shows Amateur Radio's Social Media Value

Santa Barbara Amateur Radio Club ([SBARC](#)) members kept a close watch on the Thomas Fire after it broke out in early December. Using a variety of the club's analog and digital Amateur Radio assets, radio operators were able to observe fire-fighting efforts first hand and pass along immediate information, often before it was reported by official sources or by local news media. SBARC operates five communication sites in Santa Barbara County, including sites on Diablo Peak on the mostly uninhabited Santa Cruz Island, and on Santa Ynez Peak.



"These two sites host [Automatic Dependent Surveillance-Broadcast] ADS-B receivers that are connected via a combination of amateur microwave IP links and mesh networking and

were used to track and monitor airborne firefighting activities," Levi Maaia, K6LCM, co-chair of SBARC's Telecommunications Services Committee, told ARRL.

Starting in mid-December, a round-the-clock emergency net convened on 2 meters, as commercial power for much of Santa Barbara County was cut and the fire descended on residential communities in Santa Barbara County, prompting multiple evacuation orders. With repeaters on generator power and many operators running on battery power, net traffic consisted of official information, including evacuation orders, live reports on the rapidly approaching fire line from operators who remained inside the mandatory evacuation area, related traffic about firefighting efforts, and wind and weather conditions. SBARC volunteers set up an ad hoc remote receiving station to stream live fire ground and air communications audio over the internet and mesh network.

As fire crews came off duty, one firefighter and Amateur Radio operator joined the net to offer a firsthand account of operations from an insider's perspective.

SBARC members also assisted visiting fire crew members with mobile radio antenna repairs in the field.

Maaia said social media proved to be a valuable communication asset, as most official organizations, such as incident command and emergency management agencies, were disseminating official information via Twitter immediately upon release. "Amateur stations



An early image of the Thomas Fire, caught by a remote digital Amateur Radio TV camera on December 4.

without power, cell phone or internet access could be kept informed of important information including evacuation orders, via the Amateur Radio net," Maaia explained. "SBARC also served as an aggregator for Thomas Fire-related information by featuring tweets on the club website."



California's wildfires were visible from space. [NASA photo]

The largest in modern California history, the Thomas Fire caused devastating losses in Ventura and Santa Barbara counties. "Although the Santa Barbara ARES group never activated, Amateur Radio proved to be a valuable mode of communication,

especially when coupled with social media, amateur mesh networking, IRC chat (over mesh and internet) and live audio streaming," Maaia said.

In Ventura County, the Thomas Fire damaged or destroyed some Amateur Radio resources normally available to provide emergency communication. It was an Amateur Radio TV camera that caught the first images of the Thomas Fire on December 4. [A fundraising effort](#) now is under way to help a repeater system operator to replace gear and to bolster the rest of the system for future such emergencies. Fundraising sparkplug Ben Kuo, AI6YR, said the fire demonstrated the difficulty of keeping equipment running in remote locations during fire emergencies.

"We also discovered other sites faced serious limitations after utility power was cut and solar panels were obscured by vast clouds of smoke," Kuo recounted in his solicitation. "This GoFundMe [campaign] will go toward enhancing the existing ham radio repeater network, to make it more reliable in emergencies." High-quality video cameras for those repeater sites is another possibility.

During the Thomas Fire, Kuo helped bridge the divide between Amateur Radio and social media, and even firefighters would check his feed to see what was going on in other areas of the fire, he said. "It's a very powerful combination," Kuo [told](#) *VC Star*. An ARRL member, Kuo, of Newbury Park, founded the [socaltech news site](#). He's been licensed for 3 years and serves as an ARRL Technical Specialist for the ARRL Santa Barbara Section.

Used with permission The ARRL Letter for January 11, 2018



The Thomas Fire destroyed this Amateur Radio Mesh antenna [Ben Kuo, AI6YR, photo]

REPEATER FREQUENCIES

Davidsonville	Millersville	Glen Burnie	Annapolis
147.105+		147.075+	
223.880-	224.560-		
444.400+			442.300+

PL: 107.2 for all repeaters

The 147.105 and 147.075 repeaters are frequently linked. Please leave an extra second after the courtesy beep to allow the link to reset as well.

Visitors are welcome to all meetings and nets.

*Meetings are held in the Clubhouse at the
Davidsonville Family Recreation Center,
Queen Anne Bridge and Wayson Roads off
MD Route 214 near Davidsonville, MD.*

For en-route directions, make initial contact on the 147.105 repeater.

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Wednesday Night Talk Net -- All are welcome

8PM, On the AARC Repeater 147.105

Other Amateur Radio nets

Name	Frequency	Day	Time
Morning Commuter Net	147.105+Mhz PL 107.2	Weekdays	0600
AA County ARES Net	146.805- Mhz PL 107.2	Sunday	2000
Baltimore Traffic Net	146.670- Mhz	Daily	1830
Maryland Emergency Phone Net	3.820Mhz	Daily	1800
MD-DC-DE Traffic Net	3.557Mhz	Daily	1900 and 2200
Maryland Mobileers Net	146.805 PL107.2	Monday	1930
Maryland Slow Net	3.563 MHz	Daily	1930
REACT Net	442.300+Mhz PL107.2	1st Sunday	1930