



The Listening Post



Dedicated to Community Service and All Central Florida Hams

July 2020

President's Message

Greetings – I hope that everyone is doing well. Just when it seems there was a light on at the end of the COVID-19 tunnel, someone blew it out! I was really hoping that we were a mere month or two from getting back together monthly at Beardall. With the sudden increase in positive cases of COVID-19, I think we are now several months out again.

I also want you to know, despite COVID-19, the Board of Directors is committed to continue planning for the
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OARC MEETING

July 1, 7:00pm
YouTube Live or Zoom

Beardall Senior Center - **CLOSED**
800 Delaney Ave, Orlando, FL 32801
ARRL Testing: **CANCELED**
For information & Updates
See www.oarc.org

OARC Board of Directors

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The Listening Post is the OARC newsletter for OARC members. The LP will be distributed electronically via E-mail and the OARC web site (www.oarc.org).

Editor: Ed Thralls NE4H.

Comments, suggestions and articles are welcome. Send to editors@oarc.org.

Contributing to this edition: John Knott N4JTK, Michael Cauley W4MCA

OARC REPEATERS

Call	Freq	Shift	PL
KB4UT	146.760*	-600	103.5
N4UMB	147.015	-600	103.5

* Fusion Repeater

D-Star

K1XC C	146.820	-600	
K1XC B	443.275	+5MHz	
K1XC A	1275.00	-12 MHz	Voice
K1XC A	1255.00	-12MHz	Digital
W4PLB C	145.160	+600	
W4PLB B	442.300	+5MHz	

All D-star repeaters are connected

From the President's Desk *(Continued from Previous Page)*

Holiday Party in December and of course HamCationSM in February. We must continue to be optimistic that this will all end soon, and things will get back to normal, even if it is a new normal. However, we are closely monitoring the media and evaluating information to help us plan the future and to keep each of you safe!

In the meantime, we are going to continue with virtual meetings. For July's meeting, I have lined up Steven Deines, the founder of Alpha Antenna. Alpha Antenna is a vendor of HamCationSM, and Steven will be presenting what Alpha Antenna provides to the Amateur Radio world. Alpha Antenna makes Ham Radio and Military antennas. The meeting will begin at 7pm on Wednesday. Watch for a separate email on the meeting.

At the time that I write this article, Field Day 2020 ended about 8 hours ago. I hope each of you participated in Field Day, even if it was just for a few hours. I along with VP Michael Cauley went to the OCARES Communication Center to try and participate, but band conditions (noise level) were bad. A valid attempt was made. With the temporary change in the rules this year, I was really hoping that this would give more of you an opportunity to play some radio. I will admit, there was a void over the weekend not getting together like we have in the past.

Come on 2021! You got to be better!!

73

John Knott

N4JTK

HamCationSM Chairman News

(by Michael Cauley, W4MCA)

Greetings Everyone

I hope everyone is still doing good and staying healthy.

Hopefully, everyone has seen the press release that came out from ARRL (it is below in this newsletter – Editor) and HamCationSM about the 2021 show.

Our Joint Theme with ARRL this year is "**reDiscover Radio**", it is a rallying call for radio amateurs committed to developing knowledge and skills in radio technology and radio communications.

Below is 1 of 2 Logo's for HamCation 2021.



I have been sharing the latest on the new pavilion the last couple months. I do not have a new photo this month, but I can say I have seen the new pavilion in person and it is very impressive. The photos I have been sharing do not do it justice it is a lot bigger than it looks.

ARRL to Hold 2021 National Convention at Orlando HamCationSM

(The ARRL Letter for June 25, 2020)

ARRL has announced that Orlando [HamCationSM](#) will host the [2021 ARRL National Convention](#) in Orlando, Florida, February 11 - 14. The convention will mark the 75th anniversary of HamCationSM -- one of the largest annual ham radio gatherings. The convention theme, "reDiscover Radio," is a rallying call for radio amateurs committed to developing knowledge and skills in radio technology and radio communication.

The convention will kick off on Thursday, February 11, with a series of day-long ARRL Training Tracks and a National Convention luncheon at the DoubleTree by Hilton Hotel Orlando at SeaWorld. A complete program and list of presenters will be available later this summer. Registration will open in the fall. HamCationSM will host the rest of the convention Friday - Sunday, February 12 - 14, at the Central Florida Fairgrounds & Expo Park in Orlando.



HamCationSM is sponsored by the Orlando Amateur Radio Club (OARC), an ARRL-affiliated club. OARC is supported by volunteers from radio clubs throughout the region. This year, an estimated 24,200 people attended all 3 days of the event.

[Details](#) on tickets and information about forums, exhibits (including information for vendors and tailgaters), testing, travel, and preferred hotels with special rates are on the HamCationSM website.

Online ticket sales begin in August. Tickets purchased (postmarked) by December 1, 2020, will cost \$15 and are valid for all 3 days. Read more.

Scouting Ham Trailer Upgrades – WB4SA

(by Ken Lyons, KN4MDJ)

COVID has delayed and canceled several events this year. So we are currently gearing up for Jamboree On The Air (JOTA) and the October weekends. We are anticipating five Saturdays, each with 2,000+ Cubs, for over 10,000 participants in October this year.

Last year we had 7,800 participants in October (1,503 for Jota weekend) and a total of 12,300 participants in 2019...all learned SOS in Morse code and a little bit about radio, tech and our STEM programs.

Our scout ham trailer/60ft mast got an upgrade this spring by adding a 5'x6'x8' enclosed storage area with two large workstation windows. We could use some Elmers for station/shack desk design. Also a Florida based solar panel company is offering us a 6 KW foldout system (~\$10k value) to mount on the trailer, at-cost. We're trying to raise about \$3k to cover the materials, 48v batteries and shipping. This will add another level of STEM education for our scouts and expand our trailers usefulness at events and after disasters.

It's hoped with the ARRL groups and limited Field Day this year, they will rebound and be more supportive of this year's JOTA event and get more air-time. Now is the time for hams to contact councils & local troops to get involved and start planning.

For more information, please see our latest newsletter at: Our latest newsletter link: <http://www.radioscouting.us/desktop/docs/2020-06-June-Q2-Scouts-ARRL.pdf>

Amateur Radio Gearing Up for Predicted "Above Average" Atlantic Hurricane Season

(The ARRL Letter for May 21, 2020)

Long-range forecasts for the 2020 Atlantic Basin hurricane season, which begins on June 1 and extends until November 30, anticipate above-normal activity. The National Hurricane Center ([NHC](#)) 2020 outlook calls for a season about 140% more active than average, with four Category 3 to Category 5 hurricanes. The 2019 season saw three major hurricanes (out of six).



"The above-average prediction is largely due to the hot Atlantic and Caribbean waters and lack of a substantial El Niño in the Pacific," the NHC explained, noting that the combination of a busy hurricane season and the ongoing COVID-19 pandemic could create a nightmare scenario for affected areas. FEMA and local emergency management agencies are already issuing COVID-19 guidelines for hurricane shelters, which include face masks and social distancing.

The NHC Annual Station Test -- to check readiness of amateur radio stations and operators -- takes place on Saturday, May 30, 1300 - 2100 UTC. The NHC's [WX4NHC](#) will be on the air, marking its 40th year of public service at the NHC. Julio Ripoll, WD4R, the Assistant Amateur Radio Coordinator at the NHC, said the event offers an opportunity for radio amateurs worldwide to exercise the sorts of communications available during

severe weather. "We will be making brief contacts on many frequencies and modes, exchanging signal reports and basic weather data -- sunny, rain, temperature, etc.) with any station in any location," Ripoll said.

Operation will be on HF, VHF, UHF, APRS, and Winlink. WX4NHC will center its activity on the Hurricane Watch Net ([HWN](#)) frequencies of 14.325 MHz and 7.268 MHz, depending on propagation, but will operate elsewhere as conditions dictate. WX4NHC will also operate on the [VoIP Hurricane Net](#) from 2000 until 2100 UTC.

Dr. Philip J. Klotzbach *et al* of the Colorado State University (CSU) Department of Atmospheric Science cite a variety of factors that led them to conclude this hurricane season could get serious. Pointing to the "somewhat above normal" tropical Atlantic sea-surface temperatures, the scientists estimate "about eight hurricanes," four of them major, during the 2020 season.



"I must say, I'm not liking what I'm seeing," reacted Hurricane Watch Net Manager Bobby Graves, KB5HAV, pointing to additional extended forecasts posted by Tropical Storm Risk (TSR), the University of Arizona, and North Carolina State University. The TSR forecast calls for three major hurricanes, while the University of Arizona and North Carolina State predict between three and five major hurricanes.

"Since 2014, the Hurricane Watch Net has been very busy," Graves told ARRL. "We've had 20 net activations for 19 hurricanes and one tropical storm. Since 2015, we've worked nine major land-falling hurricanes, including four land-falling Category 5 storms."

Graves pointed out that the past six hurricane seasons not only were busy and historic but very deadly, and he's hoping the 2020 hurricane season will not turn in a repeat performance.

***WSJT-X* Version 2.2.0 is Now in General Release** **(The ARRL Letter for May 28, 2020)**

WSJT-X version 2.2.0 is now in general availability release, after a short period in beta (or release candidate) status. *WSJT-X* version 2.2 offers 10 different protocols or modes -- FT4, FT8, JT4, JT9, JT65, QRA64, ISCAT, MSK144, WSPR, and Echo. The first six are designed for reliable contacts under weak-signal conditions, and they use nearly identical message structure and source encoding. JT65 and QRA64 were designed for EME ("moonbounce") on VHF/UHF bands, but have also proven very effective for worldwide very low-power communication on HF bands.



"FT8 is operationally similar but four times faster (15-second T/R [transmit-receive] sequences) and less sensitive by a few decibels," developer Joe Taylor, K1JT, explains in the version 2.2.0 [User Guide](#). "FT4 is faster still (7.5-second T/R sequences) and especially well suited for contesting."

Taylor noted that even with their shorter transmit-receive sequences, FT4 and FT8 are considered "slow modes," because their message frames are sent only once per transmission. "All fast modes in *WSJT-X* send their message frames repeatedly, as many times as will fit into the [transmit] sequence length," he explained.

Compared with FT8, FT4 is 3.5 dB less sensitive and requires 1.6 times the bandwidth, but it offers the potential for twice the contact rate.

New in *WSJT-X* version 2.2.0: FT8 decoding is now spread over three intervals, the first starting at 11.8 seconds into a receive sequence and typically yielding around 85% of the possible decodes. This means users see most decodes much sooner than

with previous versions. A second processing step starts at 13.5 seconds, and a third at 14.7 seconds.

"Overall decoding yield on crowded bands is improved by 10% or more," Taylor said.

Other changes: Signal-to-noise (SNR) estimates no longer saturate at +20 dB, and large signals in the passband no longer cause the SNR of weaker signals to be biased low. Times written to the ALL.TXT cumulative journal file are now correct, even when decoding occurs after the T/R sequence boundary.

Moonbounce Contact via FT8 Could be a First **(The ARRL Letter for May 28, 2020)**

[FT8](#) codeveloper Joe Taylor, K1JT, has reported what is possibly the first FT8 contact via moonbounce (Earth-Moon-Earth or EME) on May 21 between Paul Andrews, W2HRO, in New York, and Peter Gouweleeuw, PA2V, in the Netherlands. The contact was made possible using the currently available beta-release candidate of *WSJT-X*, version 2.2-rc1.



"Why might you want to use FT8 instead of 'Old Reliable JT65' for EME QSOs?" Taylor asked in a subsequent Moon-Net [post](#). "FT8 is about 4 dB less sensitive than JT65, but with 15-second T/R [transmit/receive] sequences it's four times faster, and it doesn't use Deep Search," he said, answering his own question.

The FT8 protocol included in the beta version of *WSJT-X* has an optional user setting to work around the 2.5-second path delay. "For terrestrial use, the FT8 decoder searches over the range -2.5 to +2.4 seconds for clock offset DT between transmitting and receiving stations," Taylor explained. "DT" represents the difference between the transmission time and actual time. "When 'Decode after EME delay' is checked on the *WSJT-X* 'Settings' screen, the accessible DT range becomes -0.5 to +4.4 seconds. Just right for EME."

As Taylor explained in his post, FT8 uses 8-GFSK modulation with tones separated by 6.25 Hz. At the time of the contact, the expected Doppler spread on the W2HRO - PA2V EME path was 8 Hz, which would cause some additional loss in sensitivity. Despite the path losses, however, copy between W2HRO and PA2V was "solid in both directions," Taylor said.

Taylor said that when he was active in EME contests on 144 MHz, he was always frustrated that, even with reasonably strong signals, the maximum JT65 contact rate

is about 12 per hour. "With FT8, you can do 40 per hour, as long as workable stations are available," he said.

As for using FT8 for EME contacts on 1296 MHz, Taylor said it "might sometimes work, but Doppler spread will probably make standard FT8 a problem." Given sufficient interest, however, he said the *WSJT-X* development team could design an FT8B or FT8C with wider tone

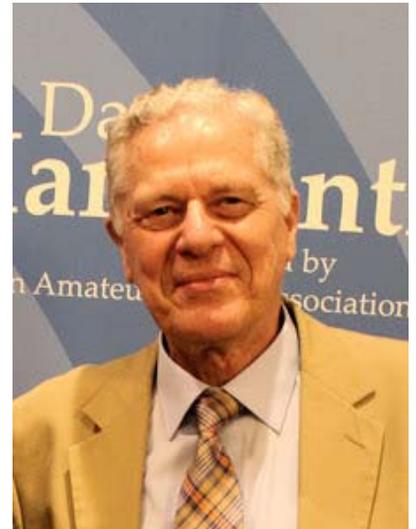
spacing. He encouraged the use of FT8 for moonbounce on 144, 432, and 1296 MHz and asked users to report their results to the development team.

"A 'slow FT8' mode is indeed a sensitivity winner on suitable propagation paths," he said in a later Moon-Net [post](#). "We are busy implementing such a mode, but with particular emphasis on its use on the LF and MF bands."

Taylor said FT8 has the operational advantage of putting all users in one (or a few) narrow spectral slices on each band. "So, it's easy to find QSO partners without skeds or chat rooms," he said. "Everything is done over the air, with no 'side channels' needed."

Taylor also remarked in response to posts from those who, like him, "love CW."

"I agree it's a thrill to hear your own lunar echo, and to make CW EME QSOs," he said. "Sometimes I pine for the bygone world of commercial sailing ships, which happen to be very much a part of my family's history," Taylor concluded. "But I know that technologies evolve, and the world does not stand still."



Joe Taylor, K1JT.
[Bob Inderbitzen, NQ1R, photo]

NEW HF OPERATORS -- THINGS TO DO

(The ARRL Contest Update for June 10, 2020)

Most radios these days have versatile built-in electronic keyers for sending CW. They can operate in a number of different modes, but if used with a dual lever paddle, the idea is that independently pressing one side of the paddle generates dahs, while pressing on the other side generates dits. DX Engineering's blog discusses different key or paddle options in "[Choosing a Key or a Paddle](#)." Once you're able to send dits and dahs with a paddle, everything else is practice and preference. There are conventions - for example, most of the time, the right lever is the dah, the left the dit. It's good to stick with conventions, just in case you find yourself in front of someone else's radio, or you share your station with a friend.

There are some sending styles for minimizing hand movement with a dual lever paddle, generally falling under the name of *iambic sending*. KB6NU discusses [how to learn to send iambically](#), but it involves pressing the right or left paddle for more than one element time, and potentially "inserting" code elements by pressing the other paddle simultaneously.

Conditions [have been pretty good on 6 meters in the last week](#), with stations in the US able to work stations in the EU and AF due to [sporadic e propagation](#). It's a seasonal thing, which is why the [SMIRK](#) and [ARRL VHF Contests](#) are this time of the year. This should be a hint that the higher bands, like 15 and 10 meters, could be open too.

WORD TO THE WISE

(The ARRL Contest Update for May 27, June 10, June 24, 2020)

DE-9

The real name for the nine-pin D-Sub connectors that many radios use for RS-232 CAT communications, more frequently called a DB-9. They come in two varieties, male and female. For more information on PC serial and USB ports as they pertain to radio contesting, see [N6TV's presentation from the 2020 Contest University](#).

Iambic

As it pertains to ham radio, a description of a type of keying where characters are formed by causing dits and dahs to be generated by combinations of independent and simultaneous use of independent paddles with an electronic keyer. "Iambic" more generally means a rhythm or pattern of words where an unstressed syllable is followed by a stressed syllable.

DRO

As it pertains to Low Noise Blocks (LNBS), typically found at the feed point of microwave frequency dish antennas, DRO means "Dielectric Resonator Oscillator" and involve using some physical properties of a device to generate frequencies. Since materials change in dimension with varying frequency, DROs are affected by the temperature. Phase Locked Loop (PLL) LNBS use a temperature-stable frequency source to generate their frequencies, and are more stable.

OPERATING TIP

(The ARRL Contest Update for May 27, June 10, June 24, 2020)

"Dualing" Receivers for Antenna Comparisons

This one is from Frank, W3LPL, from his Contest University presentation: Use two separate instances of *WSJT-X* to simultaneously test two receive antennas if you have a dual-receiver radio. You can compare the signals in real time using an objective measure.

When to Log the QSO in an FTx Contest Contact

Ed, W0YK, has [updated the World Wide Digital DX Contest website's operating tips](#) to include additional information in reaction to high NIL rates in the last contest. Here's just one of many tips from the website: "Log the QSO when you receive RR73, RRR, or 73 from your QSO partner" which should be read [in conjunction with the explanation of what constitutes an acknowledgment in a contest exchange](#)

After A Contest, Send In the Log Immediately

As soon as you can after the contest, send in your log to the contest sponsors. Your log is what you copied during the contest; no changes are necessary. With the contest over, the log should be ready to send. Generate the Cabrillo file, and submit it via email or the contest sponsor's website. With most major contests moving to shortened submission periods, it's all too easy to forget about it and miss the log submission deadline.

CONVERSATION

(The ARRL Contest Update for June 10, 2020)

Getting Ready For Remote Can Improve Local Operating

Kelly, N0VD, has been [tweeting about getting his station ready](#) for remote operation. It caused me to think that just 4 years ago, using a station remotely was seen as exotic, complicated, and threatened amateur radio as we knew it. Today, people accept that most new ham gear has a network interface, though they may not use it. Operating remotely today is a checkbox on a score submission to 3830, and maybe a mention in a soapbox comment. While it was notable in 2019 that people were "Winning a Contest Using A Remote Station" (a presentation by [Chris, KL9A](#); Kevin, N5DX, and Nate N4YDU at the 2018 Hamvention Contest Forum), for the 2019/2020 contesting season it's probable that there already have been multiple remote "wins" in single and multi-operator categories - we'll find out for sure when the official contest results are published.

For the SO1R station, one of the benefits of going remote is that the underpinnings will also make the station better for in-person contesting - the ability to perform all station operations from the station computer desktop. Most successful modern contesters don't actually touch the radio or other equipment much - they are more concerned about entering contacts, and of course, the *rate*. Everything must be performed from the computer keyboard (or keyboards!) This includes all band changing, [antenna switching or antenna rotating](#), receive antenna switching, amplifier control, station monitoring, etc. How you get there is up to you. You could roll your own station automation solution by [using something like Node Red](#), or you can investigate some of the excellent off-the-shelf solutions for the different aspects of the problem. You can test your solution by only using the keyboard and mouse for an entire contest.

If you take these first steps, you'll find that you understand more about how to streamline actions during a contest, resulting in fewer mistakes in the wee hours of the night, and more time to make contacts. Those are benefits that can be felt no matter where you're operating.

73, Brian N9ADG

ARISS Establishes Itself as an Independent Organization

(The ARRL Letter for June 11, 2020)

Going forward, the US arm of the Amateur Radio on the International Space Station International working group will be known as [ARISS-USA](#), an independent organization. ARISS serves as the intermediary to arrange contacts between schools and organizations on Earth and ISS crew members. ARISS-USA incorporated as a non-profit entity in Maryland in late May. The move will allow ARISS-USA to work independently, soliciting grants and donations. ARISS-USA will continue promoting amateur radio and science, technology, engineering, arts, and math (STEAM) goals within schools and educational organizations. ARISS-USA lead Frank Bauer, KA3HDO, noted that the scope and reach of what ARISS accomplishes has grown significantly since its modest start in 1996.

"Our working group status made it cumbersome to establish partnerships, sign agreements, and solicit grants," Bauer said. "These can only be done as an established organization."

The move toward becoming an independent organization has been discussed for quite a while, ARISS-USA said in announcing the change.



"ARISS-USA will maintain its collaborative work with ARISS International as well as with US sponsors, partners, and interest groups," the announcement said. "The main goal of ARISS-USA remains as connecting educational groups with opportunities to interact with astronauts aboard the [space station]. ARISS-USA will expand its human spaceflight opportunities with the space agencies beyond low-Earth orbit, starting with lunar opportunities including the [Lunar Gateway](#). ARISS-USA will continue to review and accept proposals for ISS contacts and expand its other educational opportunities to increase interest in space sciences and radio communications."

AMSAT President Clayton Coleman, W5PFG, said AMSAT would work with ARISS-USA to ensure a smooth transition for operations and funding. "Many of AMSAT's members are an integral part of the ARISS team," he said. "The human spaceflight element of AMSAT's vision has been realized through these contributions."

ARISS-USA can accept tax-deductible contributions via AMSAT-NA through the [ARISS website](#). Read [more](#).

Youth Working Group in IARU Region 1 Inaugurates YOTA Online

(The ARRL Letter for June 11, 2020)

The International Amateur Radio Union ([IARU](#)) Region 1 Youth Working Group inaugurated YOTA (Youngsters on the Air) Online in late May. The program is an opportunity for young radio amateurs from Region 1 (Europe, Africa, and the Middle East) to gather online each month. For each session, a YOTA team will present various topics; the initial session focused on the Youth Contesting Program (YCP) in Region 1, in which young radiosport enthusiasts operate from well-equipped contest stations for various events. The sessions, which are open to all and conducted in English, also offer the opportunity for participants to get answers to questions addressed to the online community.



Each session wraps up with a prize raffle.

Region 1 Youth Working Group chair Lisa Leenders, PA2LS, moderated the May 28 gathering. She said the YOTA Online approach evolved because a lot of activities fell victim to the COVID-19 pandemic. Beyond that, she said, YOTA Online provides an interactive venue for those who might be unable to attend even in-person activities. The [inaugural YOTA Online session](#) ran about 1 hour. In addition to social media platforms Facebook, YouTube, Instagram, and Twitch, Leenders said the session was streamed on Amateur Television via the Es'hail QO-100 geostationary satellite from a location in Belgium, with good reports.

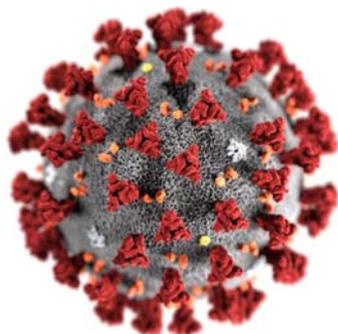
"A huge thanks to everyone watching the first YOTA Online session," Leenders said. "The successful session gathered more than 600 unique viewers from all continents except Oceania and Antarctica, as far as we could track. Considering this, we can say that the event was indeed taking place worldwide."

YOTA Online was created by a team of young hams from six European countries. The first event involved dozens of hours of planning, with several team sessions held in advance to make the free YOTA broadcast available around the world.

Leenders asked all who watched the event or viewed it after the fact for any [feedback](#). The form also gives viewers a chance to suggest topics for future YOTA Online gatherings. The second YOTA Online session is set for Thursday, June 25, at 1800 UTC.



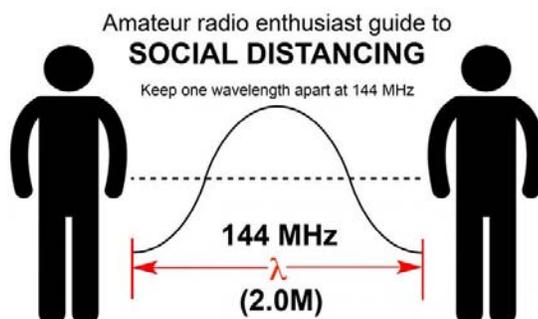
Lisa Leenders, PA2LS, moderated the YOTA Online inaugural session.



Yes, you know what it is

Stay Safe

Practice Social Distancing



Rescued Radio Amateur Says, "Ham Radio Saved My Life"

(The ARRL Letter for June 25, 2020)

Alden Sumner Jones IV, KC1JWR, of Bennington, Vermont, is thankful for amateur radio, after he suffered a medical incident and lost consciousness on June 15 while hiking with others along a remote section of the Long Trail, not far from his home. An EMT from Appalachian Mountain Rescue (AMR), who was hiking nearby, saw Jones pass out, but was unable to connect with 911 via his cell phone. Jones, 41, regained consciousness and was successful in contacting Ron Wonderlick, AG1W, via the Northern Berkshire Amateur Radio Club's K1FFK repeater on Mount Greylock. Wonderlick initiated what turned into an 8-hour effort to get Jones off the trail and to a medical facility, acting as a relay among Jones, emergency crews, and other agencies involved. As the *Bennington Post* [reported](#), "The Vermont State Police also received assistance from several licensed amateur radio operators who helped facilitate communications, greatly assisting in the rescue."



A helicopter-supported litter carries Alden Sumner Jones IV, KC1JWR, to safety. [Vermont State Police photo via the Bennington Post]

Matthew Sacco, KC1JPU, headed to a staging area where rescue crews were gathering. When he could not make it into the repeater, he employed some ham radio ingenuity to fashion a J-pole antenna from some window line he had on hand, casting it into a tree using a fishing pole. That did the trick. An individual on site was able to obtain an accurate location for Jones using the GPS on his cell phone.

After it was determined that rescuers could not reach Jones using an all-terrain vehicle, arrangements were made to have a search-and-rescue crew from New York retrieve Jones by helicopter. Amateur radio participants were able to relay critical information, including an accurate location, as preparations continued.

Jones, meanwhile, took advantage of his time with the EMT and other rescuers to talk up amateur radio and explain how to get licensed. According to one account, rescuers were having trouble making contact with the helicopter, so Jones loaned them a better antenna he happened to have.

Jones was eventually flown to a hospital in Albany, New York, again taking advantage of the occasion to promote amateur radio to the helicopter pilot and crew. Jones is said to be recovering.

"Ham radio saved my life last night, and I am very thankful for how everyone helped me," Jones said afterward.

Weekly Radio Network Meetings

Mon @ 20:00	147.090	Seminole ARES Net – Except – First Monday of the month (146.460 Simplex)
Tues @ 19:00	145.350	Osceola ARES Net
Tues @ 19:30	147.195	Quarter Century Wireless Association
Tues @ 20:00	146.760	Wayne Nelson Trader’s Net
Wed @ 19:00	147.300	Disney Emergency Amateur Radio Service
Wed @ 21:00	432.090	Florida Weak Signal Group
Thur @ 19:00	443.050	Orange County ARES Net
Thur @ 20:30	432.090	Florida Weak Signal Group

OARC Meetings and Events 2020

July 1, Wednesday	Virtual Meeting, 7:00pm YouTube Live!
August 5, Wednesday	Meeting, 7:30pm at the Beardall Center
September 2, Wednesday	Meeting, 7:30pm at the Beardall Center
October 7, Wednesday	Meeting, 7:30pm at the Beardall Center
November 4, Wednesday	Meeting, 7:30pm at the Beardall Center
December 2, Wednesday	No Club Meeting
December 5, Saturday	Christmas Party

