

Ham Chatter



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FCC Proposes to Make All Universal Licensing System Filings Electronic



The FCC is seeking comment on a Notice of Proposed Rule-making (NPRM) that is part of an overall plan to transition completely to electronic filing, licenses, authorizations, and correspondence. The notice proposes to make all filings to the Universal Licensing System (ULS) completely electronic, expand electronic filing and correspondence elements for related systems, and require applicants to provide an email address on the FCC Forms related to these systems. Although much of the FCC's ULS filings are already electronic, the changes suggested in the NPRM (in WT Docket No. 19-212) would require all Amateur Radio Service applications to be filed electronically. Under current rules, Amateur Radio applications may still be filed manually, with the exception of those filed by Volunteer Examiner Coordinators (VECs).

"Given the drastic changes that have occurred with regard to the ubiquity of the internet and increased personal computer access, we find it unlikely that electronic filing remains infeasible or cost-prohibitive for the previously exempted types of filers, or that they lack resources to file electronically," the FCC said in the NPRM, which was released on September 6. "We therefore propose to eliminate Section 1.913's exemptions to mandatory electronic filing."

The FCC said that while the vast majority of ULS applications today are

submitted electronically, some are still manually filed, largely from exempted filers, such as radio amateurs. Last year, the FCC received some 5,000 manually filed applications out of a total of some 425,000 applications. Among other aspects, the FCC is seeking comment on whether its underlying assumptions about the ease of electronic filing for previously exempted filers are valid.

This NPRM also seeks comment on additional rule changes that would further expand the use of electronic filing and electronic service.

"Together, these proposals will facilitate the remaining steps to transition these systems from paper to electronic, reducing regulatory burdens and environmental waste, and making interaction with these systems more accessible and efficient for those who rely on them," the FCC said. Comments are due within 30 days of the NPRM's release. - *via arrl.org 09/09/2019*

Washington Amateur Radio Club Volunteers Track Interfering Signals

Volunteers from the Skagit Amateur Radio Emergency Communications Club (SARECC) in Anacortes, Washington, recently assisted the US Coast Guard in tracking the source of interference on VHF Marine Channel 5A (156.250 MHz). This channel serves the commercial Vessel Traffic Service north of Bush Point on Whidbey Island, as well as in some Canadian waters in the Strait of Juan de Fuca. The service offers monitoring and navigational assistance for ships in the region.

*** New Location ***

Next Meeting October 8, 2019

The Brightleaf Amateur Radio Club will have its next regular meeting at 7 PM, Tuesday, October 8, on Charles Blvd in Greenville. The meeting location is: Room 1200 in ECU Greenville Center - 2200 Charles Blvd. Enter the building on the side closest to Charles Blvd. and Inside here - Go Straight ahead and Room 1200 is at the end on the Left - just ahead of the exit doors. (This building is just North of the State Employees' Credit Union).

Program by Robert Young, NC4RY, founder, designer and technical support for the screwdriver Tarheel Antennas.



Robert, NC4RY
Photo by N4PVH

Board Meeting - October 29, 2019

The next board meeting will be Tuesday, October 29, at 7:00 PM at the Offices of Monday & Monday, (CPA), Suite D, East Victoria Court. All members invited.

The club reports that the channel was unusable for 30 hours, forcing all traffic to other channels. SARECC volunteers promptly tracked down the source of the offending signal — a fishing vessel at the Squalicum Harbor fuel dock — and traffic on channel 5A was able to resume. Last fall, club volunteers were also able to pin down an interference problem for the Burlington Northern Santa Fe Railroad. — Thanks to Richard Rodriguez, WB6NAH - *via arrl.org 09/05/2019*

President's Corner— Dave Wood, W4EJ



Dave Wood, W4EJ

It's now fall and as the weather cools down, it's a good time to finish up those last minute antenna projects. Personally, I am getting ready to add antennas to the station for 80, 17 and 60 meters. Hopefully I can get all that done by cold weather.

I would like to express to the club just how much JoAnn and I enjoyed the club picnic. We had a very good crowd with approximately 30 in attendance. The weather was perfect and I hope everyone that attended had a good time. We really enjoy hosting this event and we hope to do so again in the future.

One piece of good news is that we finished the installation of the Alpha Delta DX A at Oakwood School. It's

working as advertised and Jim Lowe reports that three students have signed up for the school radio club. Way to go Jim and thanks to all the extra effort.

By the time you read this we will have finished up the first Technician class at Camp Lejeune and hopefully we will have 20 new hams coming online. I'll have a full report at the next club meeting. See you then and remember the informal get together before the meeting at Sam's BBQ on FireTower at 6 pm for those that can make it. *73, Dave, W4EJ*

Suggestions for new Hams

For New Amateur Radio operators to learn more about the operation and activities of Amateur Radio, they should join the American Radio Relay League (ARRL) and receive many benefits including the magazine QST. You will receive the magazine and also the digital edition. The digital edition has some extra content including short videos. You can opt out of the magazine if you want and just receive the digital edition.

Also, CQ Magazine is another excellent magazine. Both have articles about operating, technical and construction articles, contests, equipment reviews, emergency communications, tips, the latest news and many other subjects concerning Amateur Radio.

The ARRL is the national association for Amateur Radio founded in 1914. With over 150,000 members, they have contacts with the FCC and Congress. There are over 700,000 licensed Amateur Radio operators in the United States. Friendships are made all over the world through Amateur Radio. - *W4YDY*

Well Wishes

Thoughts and Prayers go out to the following:

John McCoy, K4KBB
Doug Ferris, K4ROK

Please inform Peter Van Houten, N4PVH, of any changes.



Next VE Session

Exams will be held on Tuesday, October 15, 2019 at VFW Post 7032 on 1108 Mumford Road in Greenville, NC. Exams will start promptly at 6:30 PM. For more info email Gary, **KK4GC**, at ve@w4amc.com. (remove spaces) Study material at <http://www.arrl.org/coursestraining>. Walk-ins welcome.

Please bring the following required:

- Photo ID (drivers license)
- Original Amateur Radio License
- Copy of Amateur Radio License
- Original CSCE's
- Copy of CSCE
- Test fee is \$15.00 .
- Proof of Tech Plus if before 3/21/87 and doing paper upgrade to General.
- SS Number will be needed if you don't have an FRN number. *

Go to <http://www.w4amc.com/barcinfo.html#VE> for more information.

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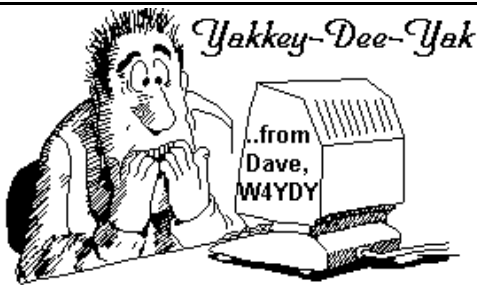


Happy Birthday

Brightleaf Amateur Radio Club members birthdays in **October**.

10-19 KO4COL Don Bradshaw
10-28 K4BMH Byron Highland
10-31 K4ZYD Terry Monday
Please let me know of any additions or corrections. hamchatter@w4amc.com

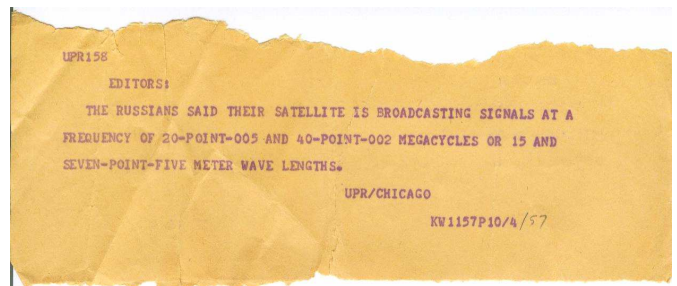
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teletype machine that the news department received the latest news on. Many times, the news announcers on radio and TV would tear off the paper and read the news.

A little while after the news broke about Sputnik, I saw the information come in on the TTY about the frequencies used by the satellite. The news folks were not interested in it, so I tore it off the machine. The original TTY print is shown in the picture above. I still have it. I added the 57 to the date.

That night, I went over to see K4BGD (SK), Mac, at his home near Fuquay-Varina. I took my old reel to reel tape recorder and we tuned to 20.005 Mc. (That was before Hertz!) When the sputnik passed over, we heard the beep-beep-



beep and I got it on tape when it passed over. We were listening on Mac's Hallicrafters SX-101 receiver. I know we listened to the satellite pass over two times and maybe a third.

It was hard to believe that an object was circling the earth that was put up by the USSR. They launched Sputnik II, a larger satellite, on November 3 with a dog named Laika aboard. The first satellite by the USA was launched on January 31, 1958. Science in the USA woke up and took a giant leap! - W4YDY

Sputnik - 62 Years ago October 4, 1957

On that date, the United States and the rest of the free world went into shock when it was reported that the USSR had put a satellite the size of a beach ball in orbit circling the Earth every 98 minutes. It was the beginning of the space age.

I was in Raleigh working at WRAL-TV at the first studio at the transmitter site near Clayton. The present studio was built a year later. There was a

ARRL Thanks Official Observers as Volunteer Monitor Program is Set to Debut



As the September 30 date for the closing of the Official Observer (OO) program nears, ARRL has expressed deep appreciation to the hundreds of volunteers who gave their time as Official Observers to help preserve the integrity of the Amateur Radio bands.

The Official Observer program has served the Amateur Radio community and assisted the FCC Enforcement Bureau for more than 85 years. The OO program is giving way to the new Volunteer Monitor (VM) program, established as part of a formal partnership between ARRL and the FCC. ARRL and the FCC signed a Memorandum of Understanding (MOU) earlier this year that establishes the Volunteer Monitor program as a successor to the Official Observers. The first Volunteer Monitors should be in place and ready to begin their duties this fall.

"Thank you for your dedication and service," ARRL Regulatory Information Manager Dan Henderson, N1ND, said. "It was the good work of the OOs over many years that laid the foundation for the FCC to recommend this new

agreement for enforcement." The FCC proposed the program following the closures of several FCC regional offices and a reduction in field staff.

Last February, Riley Hollingsworth, K4ZDH, who once handled Amateur Radio enforcement for the FCC, was named to oversee the development and implementation phases of the Volunteer Monitor program.

Under the new VM program, volunteers trained and vetted by ARRL will monitor the airwaves and gather evidence that could be used to correct misconduct as well as to recognize exemplary on-air operation. ARRL will refer instances of flagrant violation to the FCC for action, in accordance with FCC guidelines, and the FCC will give priority to enforcement cases developed by the VM program.

Official Observers were invited to apply to become Volunteer Monitors, and many did. The requirements for being a Volunteer Monitor include:

Ability to utilize state-of-the-art receiving equipment and to access no-cost remote receive sites; strong writing and

communication skills

An understanding of the importance of thorough documentation

Basic word processing and data entry skills

The ability to send such information, including recordings, to ARRL electronically. Applicants must also be ARRL members, have no history of FCC enforcement action, hold a Technician-class or higher license, and been licensed for at least 3 years.

Applicants underwent a training and certification program administered by ARRL and were vetted by ARRL through at least one oral interview and a preliminary evaluation by ARRL staff. Volunteer Monitors will serve 3-year terms at the pleasure of ARRL.

The objectives of the Volunteer Monitoring Program include improving and promoting knowledge and compliance of FCC Amateur Radio Service rules, extending and preserving the tradition of self-regulation and self-administration of the Amateur Radio Service by volunteers, and enabling the FCC Enforcement Bureau "to more efficiently and effectively utilize its resources in enforcing the Communications Act and Commission rules," according to the MOU. - via ARRL Letter 9/26/19



BARC Monthly Minutes - September 2019

No minutes for September. A cook-out was held at the QTH of BARC President Dave Wood, W4EJ. No official business meeting was held. Many thanks to Dave and JoAnn for the great food and hospitality.

BARC Board Minutes - September 2019

Present: Dave Wood, W4EJ, David Sourdis, K1KK, Dave Langley, W4YDY, Jim Lowe, AC4JL, Terry Monday, K4ZYD, Lou Demko, W3LPR, Bill Dawson, WA4SLC, Peter Van Houten, N4PVH.

Health and welfare: Doug Ferris: doing well, may get out of rehab in 3-8 weeks as reported by David Sourdis and Doug's daughter Kelly.

Radio guides from RadioToday are in for Icom 7300 and 7610, see Dave Wood for purchases.

Treasury, Jim Lowe: Checkbook balance: Members contact treasurer @ w4amc for details.

Oakwood ARC: Jim Lowe was the Oakwood advisor at the club meeting roundup to expose the kids to what club activities were available. 5 potential people interested in getting the amateur license, one signed up. Oakwood MFJ Tuner repaired by PVH, and Terry put up PVH's Balun 1:1 upon the tower and finalized the fan dipole on the tower. Jim made the first contact in Ohio.

Camp Jejune: Jim Lowe and Dave Wood to go to teach the Marines the Amateur license class for a week starting Sunday, Sept. 29th. Must have insurance card and registration for the cars to be able to go on the base. Friday

Oct. 4, 1:00 PM the VE team needs to be at the main gate visitor center to administer the test.

BARC VE test on October 15 will be at the VFW center (old meeting site) as it was announced at the ARRL. It will be the last one at this site. December VE test will be moved to the Greenville Center. Subsequent tests and club meetings will be at the Greenville center.

8 emails from Icom rebate center has been accepted, rebates are coming for the purchasers of the Icom 7300 radios.

BARC constitution specification about Officer selection: the slate of 2020 officers will be announced and write in candidates will be accepted at the next meeting for the ballot in November vote.

Roster information is being verified by JoAnn: (clean up data and updated call signs) Please let Dave Wood know of corrections.

Recent experience with email spoofing from the BARC web page: Proposal was forwarded to prevent this from happening is to have only 5 official emails: President, Treasurer, BARC, HamChatter, ve (@w4amc.com) and that all other emails are removed from public pages. Dave Langley volunteered to do so.

October 19 JOTA: Is at Salem

United Methodist church in Simpson, NC. They need volunteers. PVH will try and have the ARES trailer there however the 7300 jump kit and one antenna would be sufficient for this and is in the BARC trailer.

Peter showed the upgrades to the two trailers: BARC Trailer: Cleared the roof of all towers and pressure washed the black soot off of it. Painted the top with roof paint (2 coats) and painted the fiberglass cowl. The temperature inside dropped significantly. ARES Trailer: Installed two of the three Icom 7300 radios into specially designed shelves that held a new power supply and the radio. Made ground straps to the radios and to the frame. Tested the radios and they work.

VOA site C: Now the site has access cards, we need access cards, David Sourdis to organize and send contest calendar for next year. We need the following purchases to be able to use the VOA site: Open wire line lightning arrestors (need three, one for each antenna) and a second receive antenna. This will be brought to the membership for a vote at the next meeting.

Respectfully submitted,

Peter Van Houten, N4PVH

Acting Secretary

Dayton Hamvention Signs 5-Year Contract with Greene County, OH Expo Center

The Dayton Amateur Radio Association (DARA) has signed a 5-year agreement to keep Dayton Hamvention® at the Greene County Expo Center. The agreement was announced on September 9 by Hamvention General Chairman Jack Gerbs, WB8SCT.

"It has been a wonderful experience working with the Expo Center team in the development of this agreement," Gerbs said. "With the 5-year agreement signed, the Expo Center and Hamvention can move forward with additional enhancements to the facilities."

Dayton Amateur Radio Association President Ron Cramer, KD8ENJ,

said the DARA Board, in approving the contract, noted that the relationship with the Expo Center and Greene County, the City of Xenia, and Xenia Township "has proven especially rewarding."

Hamvention's 2019 attendance was 32,472 — the highest recorded since the move to the Exposition Center in Xenia in 2017, which was coordinated by Cramer, the Hamvention General Chairman in 2017 and 2018.

The largest Amateur Radio show in the US, Dayton Hamvention is held the third full weekend in May. The dates for 2020 are May 15 – 17. - via arrl.org 09/09/2019

BARC Email Addresses

The following W4AMC.Com email addresses are active.

President @ w4amc.com
Dave Wood, **W4EJ**

Treasurer @ w4amc.com
Jim Lowe, **AC4JL**

VE @ w4amc.com
Gary Coriell, **KK4GC**

Hamchatter @ w4amc.com
Dave Langley, **W4YDY**

BARC @ w4amc.com
Mike Monteith, **KM4OLT**

FlexRadio Teams with Raytheon Team to Develop Airborne HF Radio

In a strategic partnership with Raytheon, US Amateur Radio equipment manufacturer FlexRadio® has been selected by the US Air Force to adapt its off-the-shelf SmartSDR/FLEX-6000 architecture for HF modernization of airborne communications platforms. The new radio will provide beyond line-of-sight, long distance communications for air crews.

“We are excited to convey that our proven modular direct sampling hardware, Open Waveform API, and IP-based architecture provide a ready platform for agile development to meet 21st century communication needs,” FlexRadio CEO Gerald Youngblood, K5SDR, commented. “Throughout FlexRadio’s history, commercial amateur products have been leveraged into defense products, which in turn, have been leveraged back into commercial products. We are certain that these efforts will cycle back again.”

Youngblood said the deal could boost its Amateur Radio and commercial products and services. “While I can’t go into all the details, the positive impact to

our business processes, infrastructure, intellectual property, and human resources will enhance our amateur/commercial products and services,” he said. “So, stay tuned for more amateur product announcements coming soon.”



Raytheon received a \$36 million Project Agreement through an Other Transaction Agreement (OTA) with Consortium Management Group (CMG) on behalf of Consortium for Command, Control and Communications in Cyberspace, in support of requirements from the US Air Force Life Cycle Management Center, to develop and qualify an HF radio. CMG’s mission “is to speed development of technologies to improve US government capabilities required to sustain US military supremacy in weapon systems information technologies.”

Barbara Borgonovi, vice president of Integrated Communication Systems, said, “Raytheon’s partnership with FlexRadio combines commercial innovation with advanced military hardening techniques to rapidly deliver a next generation operational capability that supports strategic and tactical missions.”

The Raytheon-FlexRadio team is one of two recipients for this development program. After the 31-month period of performance, one team will be named to move on to production.

“Worldwide high-frequency communications is what our commercial customers do every day, using virtually every mode of operation and type of propagation,” Youngblood said. “Our partnership brings together the vast resources and experience of Raytheon in airborne tactical communications systems with FlexRadio’s commercial, off-the-shelf high-frequency software-defined radios to deliver a modular, extensible, and flexible communications platform for the warfighter.” - *via arrl.org 09/03/2019*

FCC Seeks to Streamline its Hearings Process



The FCC is asking for public comments on procedural changes that, if adopted, would streamline many administrative hearings under the Communications Act of 1934, as amended.

“Currently, these hearings typically are conducted like trials in civil litigation and include, among other things, live testimony before an administrative law judge, cross-examination of witnesses, and an initial decision by the administrative law judge that is subject to review by the Commission,” the FCC said in a Notice of Proposed Rulemaking (NPRM) in EB Docket 19-214. The FCC said its proposals “are designed to supplement the Commission’s current administrative law judge referral process and promote more efficient resolution of hearings.”

If adopted, the proposals would:

Codify and expand the use of a process that would rely on written testimony and

documentary evidence in lieu of live testimony and cross-examination.

Enable Commission staff to act as a case manager that would supervise development of the written hearing record when the Commission designates itself as the presiding officer at a hearing.

Dispense with the preparation of an intermediate opinion, whenever the record of a proceeding can be certified to the Commission for final decision.

According to the FCC, the proposed procedures would expedite its hearing processes, consistent with the requirements of the Communications Act and the Administrative Procedure Act (APA) while ensuring transparency and procedural fairness.

The FCC’s current hearing rules provide that “any hearing upon an application shall be a full hearing in which the applicant and all other parties in interest shall be permitted to participate.” The FCC noted that it has, on numerous occasions, curtailed the use of oral testimony and cross-examination in particular pro-

ceedings, in order to expedite the hearing process.

“In our experience, disputes in Commission proceedings typically involve criticisms by one party of the evidence proffered by another party or the legal significance of that evidence, not actual conflicts in testimony between two witnesses concerning outcome-determinative facts,” the FCC said.

“We contemplate codifying and expanding the use of a written hearing process that can be used in most adjudicative proceedings, including those conducted by an administrative law judge. In particular, we propose to authorize the presiding officer to conduct a written hearing whenever factual disputes can be adequately resolved on a written record.”

Among other proposed changes, the FCC would prohibit staff members who have taken an active part in investigating, prosecuting, or advocating in a case from serving as a case manager and from advising or assisting the case manager in the same case. - *via arrl.org 09/13/2019*

Ham Ads

Ham Ads will be run, free of charge in Ham Chatter for three months for each renewal. Ads must be received by the last week of the month to be included in the following issue. Send ads to: **Ham Chatter, PO Box 8387, Greenville, NC 27835.**

FOR SALE:

TYT 7800 VHF/UHF MOBILE RIG-\$150.00 With programming software, and remote Head kit.

Little Tarheel II 80 thru 6 Mobile HF antenna--\$235.00, With 32 inch whip/switch, and control cable Tripod and Antenna mount

Little Tarheel II 80 thru 6 Mobile HF Antenna--\$200.00, With 32 inch whip/switch, and control cable. Email Bernie Nobles, **WA4MOK** <wa4mok @ embarqmail.com>

Classic Collins station FOR SALE

KWM-2 Transceiver, Serial # 149 - Winged Emblem. Original box, 3 "KWM-2" Instruction books, dated Aug 1959, Oct 1959, Apr 1960. One "KWM-2 and KWM-2A" Instruction book dated Feb 1969. Collins Service bulletins and modification, Collins cables, records Set of spare tubes and a spare relay. Electro-Voice microphone and stand. Heathkit Q Multiplier GD-125, used as peak and notch filter on KWM-2. \$550. One owner. See the station at <http://pages.suddenlink.net/w4ydy/>.



512F-2 Power Supply, Serial # 2200 - Winged Emblem. Original box. Parts list and schematic in KWM-2 instruction books. Replaced tubes and all of the electrolytic capacitors in May 2018. One owner. \$300. Both: KWM-2 & PS, \$750.

ROCK BOTTOM PRICES! Internet prices **higher!**

30L-1 PARTS: New plate transformer in OEM box. \$200. New fan \$60. Email w4ydy @ arrl.net

BARC on FACEBOOK

<https://www.facebook.com/w4amc/>

Facebook and Group details

<http://www.w4amc.com/barcnews.html#BARC>

Commercial Ad Rates

1/8 page, Business Card Size

\$10 per Month - \$100 per Year

Send ads to: **Ham Chatter,
PO Box 8387, Greenville, NC 27835**

Help support *Ham Chatter* and the club. **Donations accepted!**

Monday & Monday, CPA's, PA

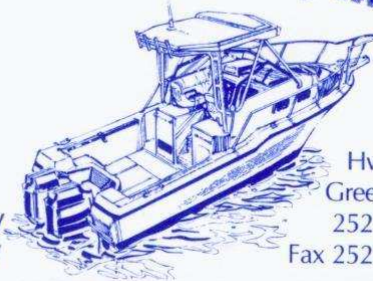
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Nine Schools and Organizations Make the Cut for NETS Ham Contacts with ISS Crew

Amateur Radio on the International Space Station (ARISS) has announced that nine schools and organizations have been selected to host Amateur Radio contacts with International Space Station crew members during the first half of 2020. The selected host organizations must now complete equipment plans that demonstrate their ability to execute the ham radio contact. Once a plan is approved, the final selected schools/organizations will have contacts scheduled as their availability matches up with the opportunities offered by NASA.

The schools and host organizations are: Celia Hays Elementary School, Rockwall, Texas; Golden Gate Middle School, Naples, Florida; J.P. McConnell



Middle School, Loganville, Georgia; Kittedredge Magnet School, Atlanta, Georgia; Maple Dale Elementary School, Cincinnati, Ohio; Monroe Carrell Jr. Children's Hospital at Vanderbilt, Nashville, Tennessee; Oakwood School, Morgan Hill, California;

Ramona Lutheran School, Ramona, California, and River Ridge High School, New Port Richey Florida.

The primary goal of the ARISS program is to engage young people in science, technology, engineering, arts, and math (STEAM) activities and raise their awareness of space communication, radio communication, space exploration, and related areas of study and career possibilities. - via arrl.org 09/12/2019

NETS

VHF/UHF

- ◆BARC Net, Mondays, 2000 on 147.09 MHz, W4GDF Repeater.
- ◆Newport SkyWarn Tues. nights 2100E Grifton-146.685-88.5 tone
- ◆Newport-145.450..... IRLP 8561 links to Columbia
- ◆Jacksonville-147.000- 88.5 tone
- ◆Oriental-147.210-151.4 tone
- ◆444 Newport-444.825- 88.5 tone
- ◆Swansboro-146.760- 88.5 tone
- ◆Grantsboro-145 230 - 85.4 tone.
- ◆Kinston Amateur Radio Society Net, 1,3,4 Tuesdays, 2000 hrs. on 145.47 MHz., W4OIX repeater in Kinston.
- ◆Eastern North Carolina Traffic Net, Every night, 2030 on 146.685 MHz.
- ◆Wilson Amateur Radio Club Net, Thursdays @ 2000 on 146.76 MHz.
- ◆ Piedmont Coastal Traffic Net, Nightly 2030 on 146.88 MHz.
- ◆Carteret County ARS (CCARS) Emergency Net, Tuesdays, 1930 on the Newport 145.45 (-) MHz.
- ◆Coastal Emergency Linking Net, Wednesday, 2100 ET on Ahoskie 145.13, Buxton 145.15, Columbia 146.835 & 443.30, Elizabeth City 146.655, Greenville, 145.35, Hertford 147.33, Williamston 145.41 & 444.25

HF

Tar Heel Emergency Communications Net on 3923 kHz Nightly 1930.

NTS CW Nets

- ◆3.571 2000 hours, slow speed (5-8 wpm) Carolinas Slow Net
- ◆3.573 1900 hours, high speed (20wpm)
- ◆3.573 2200 hours, slow speed (12-14 wpm), South Carolina/North Carolina

National Traffic System

Eastern North Carolina Traffic Net (ENCTN) 146.685 (146.085 in) Mhz (PL 88.5) 2030E

Pitt County Repeater Association

<http://www.pcra.us/>

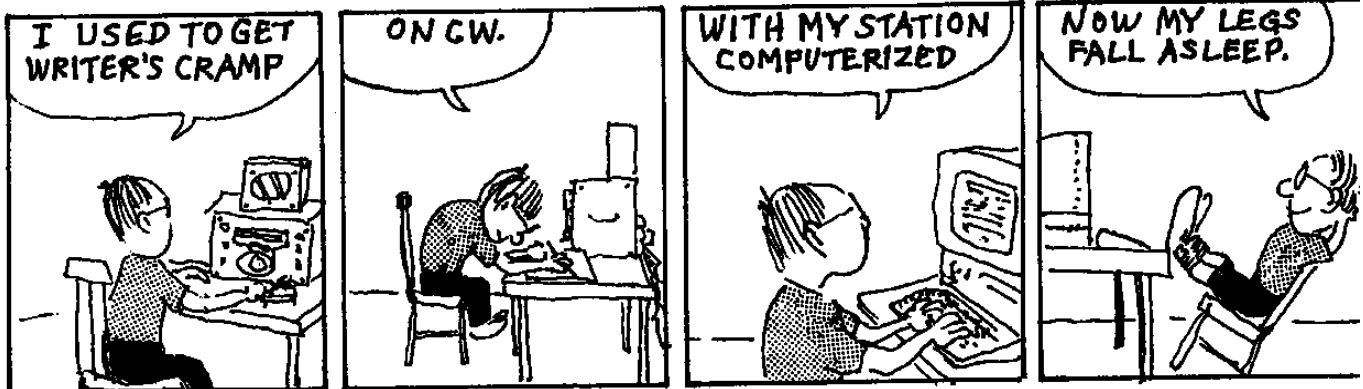
Taurus-1 CubeSat with FM-to-Codec-2 Transponder Launched

The Taurus-1 (Jinniuzuo-1) CubeSat carrying an Amateur Radio FM-to-Codec-2 transponder was launched on September 12 from China's Taiyuan Satellite Launch Center. The CubeSat was developed by Aerospace System Engineering Research Institute of Shanghai for youth education and Amateur Radio. The transponder is similar to that used on the LilacSat-1 (LO-90) CubeSat and can use the same software, once frequencies are changed, receiving FM with 67 Hz CTCSS on 145.820 MHz and retransmitting it as Codec-2 9,600 bps BPSK digital

voice on 436.760 MHz.

The telemetry downlink is 435.840 MHz. In addition to the transponder, the satellite also carries a drag sail. Mark Jessop, VK5QI, reported good telemetry signals on September 13. For more information on the transponder type, see "Digital Voice on Amateur Satellites: Experiences with LilacSat-OSCAR 90," which appeared in the January/February edition of The AMSAT Journal. — Thanks to AMSAT News Service

- via arrl.org 09/17/2019



BARC CALENDAR OF EVENTS

Oct 8.	Regular Meeting	Dec 17.	BARC VE Session
Oct 13.	Maysville Hamfest	Dec 31?.	Board Meeting
Oct 15.	BARC VE Session	Jan 1.	ARRL Straight Key Night
Oct 26/27.	CQ WW SSB DX Contest	Jan 4/5.	ARRL RTTY Roundup
Oct 29.	Board Meeting	Jan 14.	Regular Meeting
Nov 2/3.	ARRL CW Sweepstakes	Jan 24/26.	CQ WW CW 160M Contest
Nov 12.	Regular Meeting	Jan 28.	Board Meeting
Nov 16/17.	ARRL SSB Sweepstakes	Feb 8/9.	CQ WPX RTTY Contest
Nov 23/24.	CQ WW CW DX Contest	Feb 11.	Regular Meeting
Nov 24.	Benson Hamfest		
Nov 26.	Board Meeting		
Dec 7.	ARRL 160 Meter Contest		
Dec 10.	BARC Christmas Party		
Dec 14.	ARRL 10 Meter Contest		

Regular Meeting - 2nd Tuesday @ 7:00 PM
Board Meeting - Last Tuesday @ 7:00 PM

Contest Calendar: All the rules.
<https://www.contestcalendar.com/weeklycont.php>

BARC 2 METER NET - MONDAY NIGHTS AT 8:00 PM - 147.09 W4GDF REPEATER - 131.8 Tone

BRIGHTLEAF AMATEUR RADIO CLUB STATIONS

W 1 V O A - W 4 A M C - W 4 U H S



**Next Meeting
October 8
October 2019**

To:



Ham Chatter
 Brightleaf Amateur Radio Club
 PO Box 8387
 Greenville, NC 27835