

Ham Chatter



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May 2019

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Owen K. Garriott, W5LFL, SK



The US astronaut who pioneered the use of Amateur Radio to make contacts from space — Owen K. Garriott, **W5LFL** — died April 15 at his home in Huntsville, Alabama. He was 88. Garriott's ham radio activity ushered in the formal establishment of Amateur Radio in space, first as SAREX — the Shuttle Amateur Radio Experiment, and later as ARISS — Amateur Radio on the International Space Station.

“Owen Garriott was a good friend and an incredible astronaut,” fellow astronaut Buzz Aldrin tweeted. “I have a great sadness as I learn of his passing today. Godspeed Owen.”

An Oklahoma native, Garriott — an electrical engineer — spent 2 months aboard the Skylab space station in 1973 and 10 days aboard Spacelab-1 during a 1983 Space Shuttle Columbia mission. It was during the latter mission that Garriott thrilled radio amateurs around the world by making the first contacts from space. Thousands of hams listened on 2-meter FM, hoping to hear him or to make a con-

tact. Garriott ended up working stations around the globe, among them such notables as the late King Hussein, **JY1**, of Jordan, and the late US Senator Barry Goldwater, **K7UGA**. He also made the first CW contact from space. Garriott called hamming from space “a pleasant pastime.”

“I managed to do it in my off-duty hours, and it was a pleasure to get involved in it and to talk with people who are as interested in space as the 100,000 hams on the ground seemed to be,” he said in an interview published in the February 1984 edition of QST. “So, it was just a pleasant experience, the hamming in particular, all the way around.”

Although Garriott had planned to operate on ham radio during his 10 days in space, no special provisions were made on board the spacecraft in terms of equipment — unlike the situation today on the International Space Station. Garriott simply used a hand-held transceiver with its antenna in the window of Spacelab-1. His first pass was down the US West Coast.

“[A]s I approached the US, I began to hear stations that were trying to reach me,” he told QST. “On my very first CQ, there were plenty of stations responding.” His first contact was with Lance Collister, **WA1JXN**, in Montana.

ARISS ARRL Representative Rosalie White, **K1STO**, met Garriott when he attended Hamvention, “both times, sitting next to him at Hamvention dinner banquets,” she recounted. “Once when he was a Special Achievement Award winner, and once with him and [his son] Richard when Richard won the 2009 Special Achievement Award. Owen

Next Meeting May 14, 2019

The Brightleaf Amateur Radio Club will have its next regular meeting at 7 PM, Tuesday, May 14, at VFW Post 7032 on 1108 Mumford Road in Greenville. Program; A video on the subject of SDR capabilities including software, hardware, a list of available radios, dongles, pre-selector filters, digital signal processing, old fashioned superhets vs direct sampling vs direct conversion.

Also included is analog to digital conversion, FPGA (field programmable gate arrays) anti-aliasing filters, I and Q, decimation and the Nyquist frequency. All of this is presented at a high level and does not get lost in the weeds.

All members, families and guests are invited to attend.

Board Meeting - May 28, 2019

The next board meeting will be Tuesday, May 28, at 7:00 PM at the Offices of Monday & Monday, (CPA), Suite D, East Victoria Court. All members invited.

was unassuming, very smart, kind, and up to date on the latest technology.” Garriott shared a Hamvention Special Achievement Award in 2002 with fellow Amateur Radio astronaut Tony England, **W0ORE**.

Richard Garriott, **W5KWQ**, was a private space traveler to the ISS, flown there by the Russian Federal Space Agency, and he also carried ham radio into space. *Via ARRL.ORG 04/15/2019*

Editors note: I listened to Owen on 12/7/83 on 145.55 MHz when he passed near Western NC. I was inside a radar building using a 2 meter transceiver with a quarter wave antenna. My supervisor also listened. I sent in a report and received a QSL card confirming the timeframe. See more on page 3. - **W4YDY**

**President's Corner
Dave Wood, W4EJ**



Not much new to report this month, but I would like to encourage everyone to attend the next meeting. Lew, **W3LPR**, has geared up some superb videos on the operating theory of SDR radios. These actually explain how they work and are not some disguised Flex commercial. Conventional superhet radios are on the way out, due to higher cost to produce going forward, and I predict none of the major manufacturers will be fielding any more in the near future. These videos will get you in on the ground floor so one can enjoy the new feature sets and performance to the max.

Also, I would like to remind everyone of the informal get together for supper just before the meeting at Sam Jones BBQ on Fire Tower RD at 6 pm. We had six folks last month and we would love to see more this month. And yes, you can eat healthy at Sam Jones! 73 and see you soon! *Dave, W4EJ*



Happy Birthday

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

- | | | |
|-------|--------|--------------|
| 05-09 | KD4NGW | Jack Cochran |
| 05-20 | W3LPR | Lou Demko |
| 05-22 | K4DKW | Jeff Meyer |
| 05-26 | N4PIR | Gary Faust |
- Please let me know of any additions or corrections. hamchatter@w4amc.com

**Museum Ships Weekend
Set for June 1 – 2**



Museum Ships Weekend will take place over the June 1 – 2 weekend, sponsored by the Battleship New Jersey Amateur Radio Station NJ2BB. Radio operation will be from a variety of vintage and

noteworthy vessels. This is not a competition.

So far 75 ships are on the roster to take part. All stations working at least 15 different participating ships will receive a certificate, if they send a copy of their log showing these contacts.

While operation on any amateur frequency is allowed, most ships will be operate in the General portion of the bands. PSK31 operation will be on 14.070 MHz, 10.142 MHz, 18.100 MHz, 21.070 MHz, and 28.120 MHz.

Some ships also may be found on 75 meters (3.880 – 3.885 MHz) and on 40 meters (7.290 MHz) using AM, some using the vessel's original restored equipment. - via arrl.org 05/01/2019

BARC Help Needed

BARC is having a work day at Oakwood School on Saturday, May 11, and a BARC trailer cleanup day on Saturday, May 18. Details: Gary Coriell, KK4GC <kk4gc.gary@gmail.com> or phone 414-9858.

Well Wishes

Thoughts and Prayers go out to the following:

John McCoy, K4KBB



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

Next VE Session

Exams will be held on Tuesday, June 18, 2018 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:

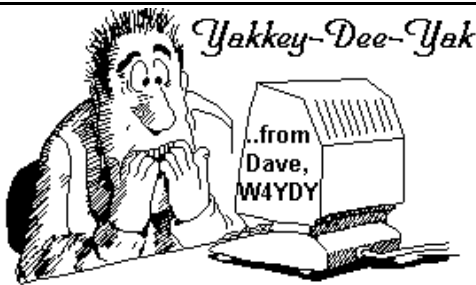
- Photo ID (drivers license)
- Original Amateur Radio License
- Copy of Amateur Radio License
- Original CSCE's
- Copy of CSCE
- Test fee is \$15.00 .
- Proof of Tech Plus if before 3/21/87 and doing paper upgrade to General.
- SS Number will be needed if you don't have an FRN number. *

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

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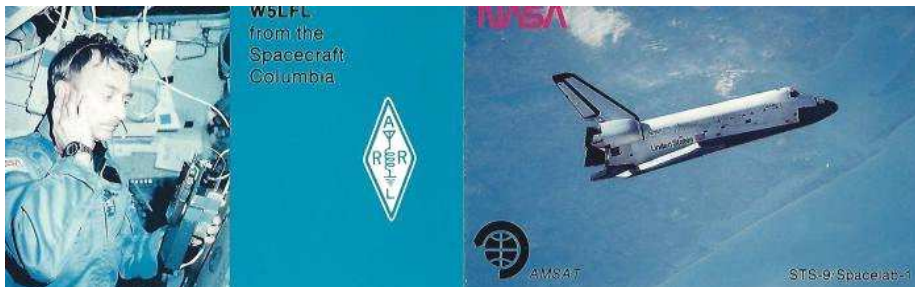
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Flight of Columbia STS-9/Spacelab-1

It was sad to read about the passing of Owen Garriott, **W5LFL**, the first Amateur Radio operator to make contacts from space using Amateur Radio. He was using FM on the 2 meter band. I sent in a report of the time, etc. of our reception. I heard him on December 7 from a radar site in Catawba County. Owen was not 100% quieting on FM but we heard him for a few minutes talking to others and also we heard his call sign a couple of times. I did not try to call him because I knew there would be a big pileup.

A picture of the QSL card I received is shown below. On the back of the card, it stated that he was happy that I was able to receive his signals from space darning



ARRL "Radio Communications" Billboard Promotes Ham Radio on I-40

A new billboard on Interstate 40 in Tennessee promotes ARRL and Amateur Radio. Working with ARRL Product Development Manager Bob Inderbitzen, NQ1R, and Communications Manager Dave Isgur, N1RSN, ARRL Graphic Designer Sue Fagan, KB1OKW, completed a design for the new 10 x 20 billboard, owned by ARRL Life Member Cliff Segar, KD4GT. Segar says the average daily traffic count for the area along I-40 west bound, mile marker 336, is on the order of 6 million vehicles per year. - via arrrl.org 04/17/2019



his time in space. The following information was from the back of the card.

The transceiver was a modified Motorola MX-200 2 meter FM transceiver, hand-built by the Motorola ARC I Florida. The antenna was a directional ring radiator with cavity, designed to fit in the upper window of the spacecraft and it was built for NASA by volunteer employees of Lockheed. The power was 4.5 watts using FM and CW by keying the carrier.

Owen made over 350 2-way contacts and received approximately 10,000 SWL cards from 23 countries. He operated for a total of 4 hours and 30 minutes. All audio was tape recorded. Columbia was launched on November 28 1983 and landed at Edwards AFB on December 8, 1963.

Other information on the card was it was the **first** launch of Spacelab (provided by the European Space Agency), **longest** Orbiter flight to date, **first** European crewmember, **first** 'Payload Specialists' (non-career astronauts), **first** six-person spaceflight and the **first** Amateur Radio station in space, **W5LFL**. - **W4YDY**

Former North Carolina Section Manager John Covington, W4CC, SK



Former ARRL North Carolina Section Manager John Covington, W4CC, of Charlotte, died on April 17 after a long illness. An ARRL Life Member, he was 58. Covington served as North Carolina SM from 2000

until 2006. First licensed in 1972, Covington mainly enjoyed CW and some digital modes, but operated phone on the National Traffic System, where he was very active, and on occasional public service nets, special events, and QSO parties. He also served as the North Carolina Affiliated Club Coordinator from 1997 until 2002, and he was an Official Relay Station. - via arrrl.org

Honda Portable Generators Recalled Due to Potential Fire Hazard

American Honda has announced that it's voluntarily recalling some 200,000 of its portable generators sold in the US due to a potential fire and burn hazard. The recall includes the EU2200i, EU2200i Companion, and EB2200i generators. The US Consumer Product Safety Commission (CPSC) says the affected



portable generators can leak gasoline from the fuel valve. Users should stop operating the recalled generator and contact an authorized Honda dealer for a free repair. Honda is also contacting users directly. For more information, visit the CPSC website. < <https://www.cpsc.gov/Recalls/2019/american-honda-recalls-portable-generators-due-to-fire-and-burn-hazards> > A similar recall has been issued in Canada. - via arrrl.org 04/15/2019

(Include dashes in above URL)

BARC Monthly Minutes - April 2019

Meeting Called To Order at 7:04 pm.
Recited Pledge of Allegiance.

Introductions

Presentation by Matt McCann, John Johnson, and Michael Karp on the use of MMDVM modem boards and raspberry Pi in DMR communications.

Minutes from March 2019 board meeting read and accepted.

Treasurer's report. Contact treasurer for details.

Meeting on March 17th at Oakwood School to possibly participate in an ARRL-sponsored visit to CT.

Byron reported a decent turnout at the Downeast Hamfest in Kinston last weekend.

Meeting adjourned at 8:40PM.

Respectfully submitted,

Gary Coriell, KK4GC

BARC Board Minutes - April 2019

Called To Order at 7:05 pm

Attendance: Dave Wood, Gary Coriell, Dave Langley, Terry Monday, Lou Demko, Peter Van Houten

Minutes from last club meeting read and accepted.

Treasurer's report. Contact treasurer for details.

Paul Fletcher e-mailed Dave Wood requesting to add additional events to the VOA schedule. Dave Wood will provide the VOA schedule to Dave Langley for publication in the Ham Chatter.

Paul Fletcher will set up a meeting with Oakwood to discuss the STEM-related activities.

Tentatively scheduled a workday at Oakwood for May 11 (alternate day is the 18th).

Gary Coriell was nominated as the Field Day chairman for this year.

He will have a proposed event checklist (non-specific to Field Day) for review and comments at the next club meeting.

We discussed the use of personal equipment (radios, computers, etc.) at club events such as Field Day, the NCQP, etc. to allow for such things as CAT control of the radio. The general consensus was that

this will be acceptable, provided that the owner 1) uses the club-approved logging software for the duration of the event, and 2) uses his/her equipment at their own risk. It was suggested that we procure a USB CAT cable for each of the club radios.

BARC trailer cleanup day is scheduled for May 18 pm.

Meeting adjourned at 8:00

Respectfully submitted,

Gary Coriell, KK4GC

Faster, More Contest-Friendly FT4 Digital Protocol Makes Debut

A downloadable installation packages for WSJT-X version 2.1.0-rc5 was posted on Monday, April 29," for a new, speedier, more contest-friendly digital mode initially in beta form. WSJT-X developers say serious work on the new FT4 protocol began shortly after the FT8 Roundup held last December 1 – 2. The goal was a mode that could compete with RTTY contesting in terms of contact rates, while preserving many of the benefits of FT8.

"Over the past month a small group of volunteers have been conducting on-the-air tests of FT4," the WSJT-X Development Group — Joe Taylor, K1JT; Steve Franke, K9AN; and Bill Somerville, G4WJ — announced this week. "The early tests were very successful and helped us to make a number of important design decisions. We believe FT4 has considerable promise for its intended purpose."

The developers say FT-4 soon will be ready for testing by a larger group and they're seeking interested participants who can offer their "considered feedback." They suggest reading The FT4 Protocol for

Digital Contesting first. A general release of the WSJT-X suite that includes FT4 is anticipated in July.

According to the document FT4 is an experimental digital mode designed specifically for radio contesting that — like FT8 — uses fixed-length transmissions, structured messages with formats optimized for minimal contacts, and strong forward-error correction. Transmit-receive sequences are 6 seconds, making it 2.5 times faster than FT8 and about the same speed as conventional RTTY for radio contesting. FT4 can work with signals 10 dB weaker what would be required to decode RTTY while using much less bandwidth.

Transmissions last for 4.48 seconds, compared to 12.64 seconds for FT8. Modulation uses four-tone frequency-shift keying at approximately 23.4 baud, with tones separated by the baud rate. The occupied bandwidth is 90 Hz.

The FT4 Protocol for Digital Contesting document includes:

Instructions for installing WSJT-X 2.1.0-rc5 and configuring FT4.

FT4 operating instructions.

A basic description of the FT4 protocol, modulation, and waveform.

"Even if these practice sessions reveal no serious bugs or inadequacies, the WSJT-X Development Group believes FT4 is still too new to be used in the ARRL VHF Contest (June 8 – 10) and ARRL Field Day (June 22 – 23). For that reason, release candidate WSJT-X 2.1.0-rc5 will "time out" on June 7.

Here is the proposed schedule related to the FT4 beta version rollout.

April 29: Second announcement, with links to downloadable installation packages for WSJT-X 2.1.0-rc5

May 9, 0000 – 0100 UTC: FT4 practice session, 7.090 MHz

May 14, 0000 – 0100 UTC: FT4 practice session, 7.090 MHz

June 5, 0000 – 0100 UTC: FT4 practice session, 7.090 MHz (if needed)

July 15: General Availability (GA) release of WSJT-X 2.1.0. - More at arrrl.org

Editors note: Installed FT4 and made a few contacts. Really fast! - W4YDY

Annual Armed Forces Day Crossband Test Set for May 11

The Army Military Auxiliary Radio System (MARS) will host the traditional military/Amateur Radio communication tests to mark the 68th annual Armed Forces Day (AFD) on Saturday, May 11. The event is open to all radio amateurs. Armed Forces Day is May 18, but the AFD Crossband Military-Amateur Radio event traditionally takes place 1 week earlier in order to avoid conflicting with Hamvention®. Complete information, including military stations, modes, and frequencies, is available on the US Army MARS website.

“For more than 50 years, military and amateur stations have taken part in this event, which is only an exercise scenario, designed to include hobbyist and government radio operators alike,” the event announcement said. “The AFD Crossband Test is a unique opportunity to test two-way communications between

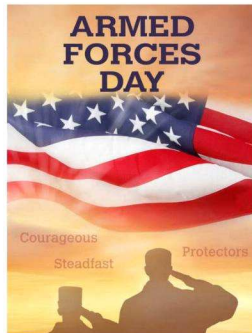
military communicators and radio stations in the Amateur Radio Service, as authorized in 47 CFR 97.111. These tests provide opportunities and challenges for radio operators to demonstrate individual technical skills in a tightly-controlled exercise scenario that does not impact any public or private communications.”

During the event, military stations in various locations will transmit on selected military frequencies and announce the specific ham frequencies they are monitoring.

Military stations expected to be

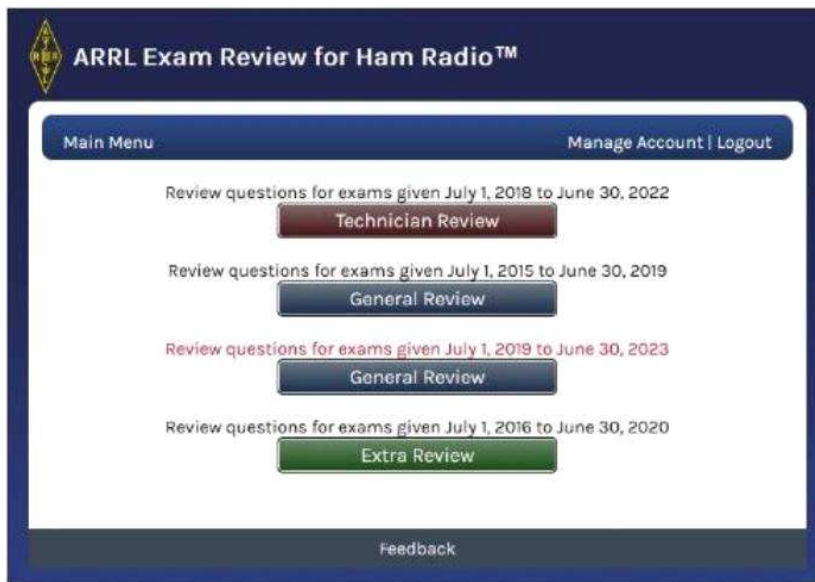
on the air for the event include those in Arizona, Japan, Hawaii, Okinawa, Washington, DC (and elsewhere in the contiguous states), the USS Midway, the USS Yorktown, the USS Iowa, LST-325, the US Naval Academy in Annapolis, and the Newport Naval Radio Station Museum in Rhode Island. The MARSCOMM and MARS RADIO nationwide networks will have multiple stations on the air across the continental US.

An AFD message will be transmitted utilizing the Military Standard (MIL-STD) serial PSK waveform (M110) followed by MIL-STD Wide Shift FSK (850 Hz RTTY), as described in MIL-STD 188-110A/B. Technical information is available. The AFD message will also be sent in CW and RTTY, as indicated on the full schedule. Anyone wanting a QSL should complete the request form on the MARS website. - via arrl.org 04/29/2019



ARRL's Free Exam Review for Ham Radio Updated

ARRL Exam Review for Ham Radio™ has been updated in advance of the release of the ninth edition of The ARRL General Class License Manual for Ham Radio. ARRL Exam Review is a free online resource for use with current editions of ARRL License Manuals. The service can be accessed via a web browser, and uses the official examination question pools to construct chapter-by-chapter reviews. Upon completing study, Exam Review helps the license candidate take practice



exams with the same number and variety of questions that he or she will encounter on exam day. Practice tests can be taken over and over, scored in complete privacy, or even printed with an answer key. Exam Review includes quick feedback about the questions missed.

The update to Exam Review and the new edition General Class License Manual coincides with a new General Class question pool released earlier this year by the National Conference of Volunteer Examiner Coordinators (NCVEC). The new

world. ARRL, the national membership association for Amateur Radio licensees in the US, offers books, online content, and other resources for Amateur Radio licensing, operating, and lifelong learning.

For more information about getting started in Amateur Radio, visit What is Ham Radio <<http://www.arrl.org/what-is-ham-radio>> or call 800-326-3942 (800-32 NEW HAM). ARRL can help you find local radio clubs, classes, and testing sites. - via arrl.org 05/02/2019

2019 – 2023 General Class question pool becomes effective July 1, 2019 for examinations in the Amateur Radio Service. The 2015 – 2019 General Class pool remains in effect for exams given until June 30, 2019. ARRL Exam Review provides access to both the current and new General Class questions.

A federally licensed service, Amateur Radio (or “ham radio”) provides the broadest and most powerful wireless communication capability available to private citizens anywhere in the

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: Yaesu FT 857D mobile HF/ with Jump Kit---\$400.00

IC 7000 All Band HF/VHF/UHF Mobile Rig / With remote head cable---\$600.00

TYT 7800 VHF/UHF MOBILE RIG-\$150.00 With programming software, and remote Head kit. Little Tarheel HP 40 thru 6 mobile hf antenna--\$200
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 records, Collins cables, 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.

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. \$250. KWM-2, PS, CP1, \$750.

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

30L-1 PARTS: New plate transformer in OEM box. \$200. New fan \$60.

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

Facebook and Group details

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

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Monday & Monday, CPA's, PA

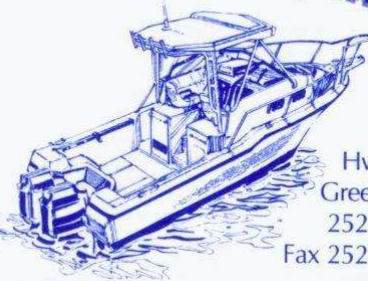
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Djibouti J20DX IOTA DXpedition Thwarted by Bureaucracy

Djibouti J20DX IOTA DXpedition operators Col McGowan, MM0NDX; Jonathan Bowes, MM0OKG, and Christian Cabre, EA3NT, have thrown in the towel on their efforts to operate from two infrequently activated African islands — Moucha Island (AF-053) and the very rare Sept-Frères (AF-059). Their J20DX operation was set to run from April 16 – April 21, but McGowan’s and Bowe’s radio equipment was impounded by customs upon their arrival at the airport, despite the fact that Cabre had cleared customs smoothly 2 days earlier. The team had “official radio licenses being issued by Djibouti Telecom” permitting them to operate radio without any conditions, they reported on the J20DX website.



The operators were told that the Djibouti security agency would make a decision on whether they could obtain necessary authorization to retrieve their equipment, but time wore on along with official inertia. Due to time constraints, the delay quashed plans to activate AF-059.

“Nobody is more disappointed about that than us,” they said on their website Wednesday, expressing optimism that they would still be able to be active from Moucha or Maskali Island AF-053 and remain until Friday evening or Saturday

morning. “Of course, this depends on the aforementioned bags being released by custom officials,” they added.

Still without all their gear, on April 18, they made the crossing to Moucha Island, picked a location to set up, and immediately assembled antennas for 20, 17, and 15 meters.

“Literally 5 minutes before the first CQ from AF-053, we received a phone call from National Security saying signatures were needed for the authorization letter to permit us to collect our impounded gear,” the J20DX team recounted. “This same letter would also allow us to depart Djibouti without any more issues at airport customs. However, we had to return to the mainland to get the letter.”

With the weekend in Djibouti being Friday and Saturday, this Thursday would be their last chance to obtain the important authorization letter prior to heading home. “Before we had even started, teardown began. Yes, we left the island 2 hours after arriving. AF-053 is now also cancelled,” they announced.

Upon reaching the National Security offices, the team said, unfortunately, “no authorization letter [was] to be seen.” - *via arrl.org 04/18/2019*

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

Pitt County Repeater Association

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

BARC on FACEBOOK

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

Facebook and Group details

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

April 2019 BARC VE Session Results

No one came to the VE session to take exams. First time that no one showed up for 2 straight sessions. BARC President Dave Wood, W4EJ, came out to observe and talk up BARC if anyone showed up. VE Liaison Gary Coriell, KK4GC, Gerald Sighman, KN4CKL, Al Mullis, K4GOE, and Dave Langley, W4YDY, were there to serve. Next session; June 18. - *W4YDY*

ARRL Rolls Back Outgoing QSL Bureau Rates to 2011 Prices

ARRL is rolling back Outgoing QSL Bureau rates to 2011 levels. Effective May 15, 2019, the new rates will be:

\$2 for 10 or fewer cards in one envelope.

\$3 for 11 – 20 cards in one envelope, or 75 cents per ounce for packages with 21 or more cards. For example, a package containing 1.5 pounds of cards — 24 ounces, or about 225 cards — will cost \$18.

No transaction service fees.

Any cards received before May 15 will be charged the current rate. There

will be no adjustments for cards received before May 15.

More information is on the ARRL website.

<http://www.arrl.org/Outgoing-QSL-Service> - *via arrl.org 04/15/2019*



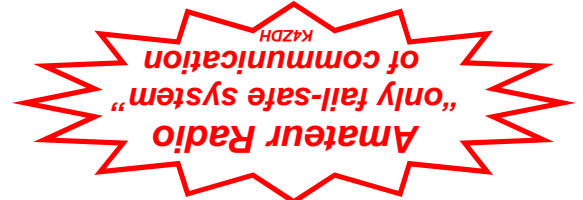
BARC CALENDAR OF EVENTS

May 11	Oakwood School Work Day (Pg 2)	Aug 30/Sep 1	Shelby Hamfest
May 14	Regular Meeting	Sep 10	Regular Meeting
May 18	BARC Trailer Cleanup (See Pg 2)	Sep 24	Board Meeting
May 25/26	CQ WW CW WPX Contest	Sep 28/29	CQ WW RTTY DX Contest
May 28	Board Meeting	Oct 8	Regular Meeting
Jun 8/9	ARRL June VHF Contest	Oct 13	Maysville Hamfest
Jun 11	Regular Meeting	Oct 15	BARC VE Session
Jun 18	BARC VE Session	Oct 26/27	CQ WW SSB DX Contest
Jun 22/23	ARRL Field Day	Oct 29	Board Meeting
Jun 25	Board Meeting	Nov 2/3	ARRL CW Sweepstakes
July 9	Regular Meeting	Nov 12	Regular Meeting
July 13/14	IARU World Championship	Nov 16/17	ARRL SSB Sweepstakes
July 20	Swapfest, Cary	Nov 23/24	CQ WW CW DX Contest
July 30	Board Meeting	Nov 24	Benson Hamfest
Aug 13	Regular Meeting	Dec 17	BARC VE Session
Aug 20	BARC VE Session	Regular Meeting - 2nd Tuesday @ 7:30 PM	
Aug 27	Board Meeting	Board Meeting - Last Tuesday @ 7:30 PM	

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
May 14

May 2019

To:



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