

# The "Official Organ"

The Official Newsletter of the Johnston Amateur Radio Society, Inc.

June 2018 edition

## JARS MEETING THIS THURSDAY:

Our monthly meeting is this coming Thursday, June 21<sup>st</sup> at Bernie's Southern Gourmet Buffet located at 10365 US Hwy 70 W, Clayton, NC 27520 Dinner starts at 6:30pm with the meeting following at 7pm. We will be discussing the Constitution and By Laws and voting on it in July.

In this month's "Official Organ"

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## Presidential Comments:

### Our June Meeting

In addition to presenting the new proposed Constitution and By-laws to the group as required by our current Constitution, we will have a guest speaker at our meeting. W4EJ, David Wood will give his presentation on reducing RFI (Radio Frequency Interference).

Welcome to our Newest Member

As mentioned in the last newsletter, Charles Brucker KG4MXV did become our new member. We welcome him aboard.

Meeting Attendance

April ————— 44

May ————— 24

NCS Needed

Stephen has been requesting new net controls. I have heard two K3CON and N4RL. They have been doing a great job let Stephen know if you are interested.

## June JARSCom News

*JARSCom featured at Hurricane Prep Net*

The JARSCom was exhibited at the Hurricane Prep Fair event held in Smithfield earlier this month. I estimate we had about 20 people tour the communication vehicle. In addition to this public event the vehicle was featured on Amateur Radio News Line Report 2117 for Friday, May 25, 2018. The HAMBULANCE ANSWERS THE CALL. <https://www.arnewline.org> The same report with pictures was featured on the very popular show Ham Nation Episode 353 Published on May 30, 2018. Part of the script "The Johnston County North Carolina ham club does what many clubs do. They have around 65 members who support hurricane evacuees when they come inland. They run and support a repeater. They participate in field day. And they have their very own "hambulance." The link to Ham Nation <https://www.twit.tv/shows/ham-nation/episodes/353?autostart=false> We will have JARSCom at field day but just before field day, Wendell is having their Big Truck Day on June 23. I have talked to the Mayor and she is interested in having it displayed. We may be a little late for field day but we will be there. I mentioned it at the last meeting and the members consented to having the JARSCom at public event as well as field day. Big truck days ends at 2:00 but we will drive it to field day just after the event. <http://fun4raleighkids.com/calendar/eventdetail/53525/-/big-truckday->

2018.

One of our guest at JARSCom was looking at the frequency chart. They did not realize how involved that is. Paul Dunn paid us a visit too. He expressed interest in having another working party to install connectors on the 29 cables that has been installed.

May Presidential Picnic Report By all reports I received everyone that attended enjoyed the Presidential Picnic. The menu was hot dogs with all the trimmings and covered dishes the members supplied. Stan, our VP showed off some of his vintage radio equipment explaining how technology has evolved over the years.

I was happy to see our Lifetime members Bill and Linda at the event as well as our new younger families in attendance.

## **Life on the Farm:**

Hopefully, one of these days, life on the farm will get back to something that resembles normal. Between Velda going to physical therapy and both of us going to the doctor, we have been going non-stop for two months.

When time permits, I have been busy working here in the hamshack. I have just about got my digital FM station set the way I want it. I ordered another zumspot to replace the Shark RF Openspot. The Openspot has to be hardwired into the router, whereas, the zumspot does not. Also, the control panel for the zumspot is a lot more user friendly and capable of doing so much more.

I even made a front for my radios so that you can not see all the wires.



With all the rain we had here last month, I bought a new zero turn lawn mower with a 50-inch deck because it was taking too long to cut it with the other lawn mower. At one time, the grass was so tall that our little hairy hound got lost in it. That did not worry me as much as a snake being found in the tall grass.

Since Velda had her shoulder surgery back in April, I have been doing all of the cooking. I think her sisters are in no hurry for her to get where she can do the cooking again because when I cook, every meal is an adventure. It must be good, because we have not had any leftovers.

Well, that does it for this edition of "Life on the Farm". 73 from Mike (KD4MC), Velda (K4VJC), Remington (aka Hairy Hound) and Tabitha (aka Krazy Kat).

### **Amateur Code of Conduct:**

Every now and then, I get the feeling that we need to get back to the basics of what amateur radio is, so I dig this up and print it in the newsletter.

**The Radio Amateur's Code  
The Radio Amateur is**

**CONSIDERATE...**He/[She] never knowingly operates in such a way as to lessen the pleasure of others.

**LOYAL...**He/[She] offers loyalty, encouragement and support to other amateurs, local clubs, the IARU Radio Society in his/[her] country, through which Amateur Radio in his/[her] country is represented nationally and internationally.

**PROGRESSIVE...**He/[She] keeps his/[her] station up to date. It is well-built and efficient. His/[Her] operating practice is above reproach.

**FRIENDLY...**He/[She] operates slowly and patiently when requested; offers friendly advice and counsel to beginners; kind assistance, cooperation and consideration for the interests of others. These are the marks of the amateur spirit.

**BALANCED...**Radio is a hobby, never interfering with duties owed to family, job, school or community.

**PATRIOTIC...**His/[Her] station and skills are always ready for service to country and community.

*- adapted from the original Amateur's Code, written by Paul M. Segal, W9EEA, in 1928*

### **Frowned Upon on a Repeater:**

Many of us, OK, some of us remember George Carlin's rendition of the seven dirty words you can not say on TV or radio from back in the 1970's.

Lately, I have been hearing quite a bit of the four things that repeater owners frown upon of the two best repeaters in the area, and at times, it has gotten quite heated and some name calling was involved. Therefore, I would like to remind everyone of those four things;

**Sex**

**Drugs**

**Politics**

**Religion**

**Sex and drugs** are frowned upon because you never know who is listening. Someone may have their young children where the radio is and have the children ask the parent to explain what they heard on the radio. Even making sex or drug innuendo's should be refrained from the repeater.

To put it in simple terms, if you would not say it in front of your mother, children or minister, do not say it on the repeater.

**Politics and religion** are frowned upon because no two people have the same views on either one. If you start talking about how great or bad one political party or politician is, somebody will come in and want to argue as why you are wrong. The same goes for religion. Everybody wants to tell you why their religion is better than everybody else's.

So, to prevent harsh words, having to explain to children or losing a friend, we should all refrain from discussing the four topics on the repeater.

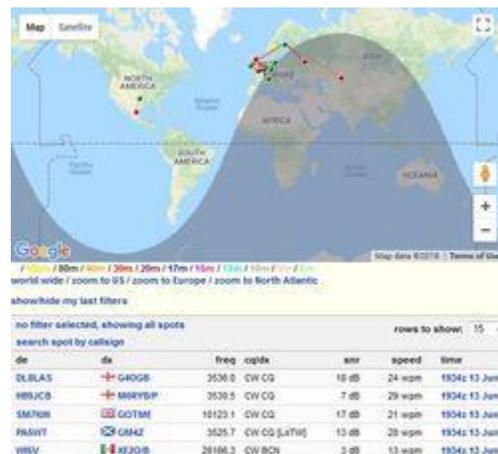
### ARRL News:

## ARRL Website, Services to be Down on June 20

The ARRL website and some services will be down for maintenance for up to 4 hours on Wednesday, June 20, starting at approximately midnight EDT (0400 UTC on Thursday, June 21). During this period some or all systems may be temporarily inaccessible, including all content on the [ARRL website](#) and the ARRL Store. Logbook of The World (LoTW) and email will *not* be affected, nor should the [ARRL Contest Club Eligibility Lists](#) or [Contest Log Submission](#) pages. We apologize for any inconvenience.

## Reverse Beacon Network Beta Testing Separate Spot Stream for FT8

The popular Reverse Beacon Network (RBN) [has announced](#) that it's now offering -- as a beta test -- a separate telnet feed for FT8 spots (telnet.reversebeacon.net port 7001), in addition to the current spot feed (telnet.reversebeacon.net port 7000), which will be repurposed to handle only CW and RTTY spots. In addition, a beta version of *Aggregator* Version 5 that can handle FT8 spots received from *WSJT-X* will be available on the RBN website, with instructions on how RBN node operators can configure their nodes to spot FT8 call signs on one or more bands; this will not interfere with the ability to spot CW and RTTY call signs, the RBN team assured in its announcement, explaining its reasoning for the move. The beta test follows a limited alpha test aimed at getting a feel for the spot load and other implications of carrying FT8 spots on the RBN.



The screenshot shows a world map with a large shaded area over the Atlantic and Europe. Below the map is a table of FT8 spots. The table has columns for 'dx', 'freq', 'cpdx', 'snr', 'speed', and 'time'. The data rows are as follows:

dx	freq	cpdx	snr	speed	time
DL8LAS	3530.0	CW CQ	10 dB	24 wpm	1924z 13 Jun
HE8JCB	3530.5	CW CQ	7 dB	29 wpm	1924z 13 Jun
SM7NM	10122.1	CW CQ	17 dB	21 wpm	1924z 13 Jun
PA8WT	3525.7	CW CQ [LW]	13 dB	20 wpm	1924z 13 Jun
WB8V	28166.3	CW BCN	3 dB	13 wpm	1924z 13 Jun

"The most

striking characteristic of FT8 spots is their sheer quantity," the RBN announcement said, citing weekday

statistics from May 23 and 24 when FT8 spots represented 86% and 87% of all spots, respectively, while CW spots were 13% and 14%, respectively, and RTTY spots were below 1%. Throughput on both days totaled some 30,000 spots.

"Whether due to the startling popularity of the new mode, or to the ability to spot stations at 22 dB below the noise level, it seems obvious that adding FT8 spots to our spot flow could have a huge impact on the infrastructure of the RBN," the RBN announcement said. "These numbers suggest that if only 20 - 30 RBN nodes added FT8 spots, those spots could outnumber the total CW and RTTY spots being delivered by the 140 - 150 nodes currently active on the network, doubling the total required throughput."

The RBN team said it wanted to find out whether RBN servers would be up to the task before the fall contest season.

Sailor Grateful for Maritime Mobile Service Network Assistance

Phoenix sailor and radio amateur Timothy Henning, KE7WMZ, has expressed his gratitude to the Maritime Mobile Service Network ([MMSN](#)) for intercepting and handling his distress call on 14.300 MHz. Net control operator Harry Williams, WOLS, caught Henning's call requesting assistance with an urgent medical condition on May

23. Henning, some 200 nautical miles south of Ensenada, Mexico, in his sailing vessel *Victory*



*Cat*, reported that a severe vision problem had developed in his right eye, and he was seeking immediate medical attention and advice.

Williams contacted the US Coast Guard in Alameda, California, relaying all information concerning the medical problem and staying on the air with Henning for several hours. The Coast Guard, in turn, relayed the information to the on-duty flight surgeon who advised that Henning seek immediate medical attention at the closest port of call.

It was decided that Henning would continue on to Ensenada, and the Coast Guard arranged to have someone meet him there and transport him to the Balboa Naval Hospital in San Diego, while his wife stood

by



**Tim Henning, KE7WMZ, aboard *Victory Cat* near Greece.**

with the vessel at the dock.

Ultimately, it was determined that Henning had a detached retina, and he was transported to Phoenix for surgery.

"I appreciate, beyond words, that the Maritime Net was able to help us get in contact with the USCG and simply be at the other end of the HF radio, helping us through a challenging time," Henning told the MMSN afterward. "I especially want to thank Harry, W0LS. He was extremely professional and invaluable in linking us effectively with the USCG. We were just completing our 10 years [round-the-world sail](#) voyage."

The Maritime Mobile Service Net operates daily on 14.300 MHz from 1700 UTC to 0200 UTC. It is celebrating its 50th anniversary this year.

Canadian Radio Amateurs Petition Parliament to End Deliberate Interference Radio Amateurs in Canada -- primarily in the Province of Quebec -- have mounted a [petition drive](#) demanding that members of the House of Commons prompt decisive regulatory action against a Quebec resident who has been causing deliberate interference. The petition does not spell out the particulars of the allegations but says the alleged offender -- apparently unlicensed -- is already known to authorities. Petitioners claim that the individual's "malicious intentions" have been "threatening the security of emergency radio communication in the province," and they called upon Parliamentary lawmakers "to ensure the



security" of HF radio communication. "For 2 years, a Nicolet resident, near Trois-Rivières [Quebec], illegally set up a transmitting radio station and is generating

interference on purpose," the petition recounts. "Amateur Radio operators in Quebec have identified the illegal radio station and brought it to the attention of Innovation, Science and Economic Development ([ISED](#)) Canada, and its inspectors seized the individual's radio equipment." One of ISED's functions is telecommunications regulation. According to the petition, the alleged offender "acquired new equipment right away and returned to jamming the airwaves." The petition identifies the alleged offender as a male who "has regular encounters with the law."

"We are calling on the government to provide more support to the Department of Innovation, Science and Economic Development Canada, so that it can intervene more decisively in this matter," the petition declared.

Radio Amateurs of Canada ([RAC](#)) -- the country's national Amateur Radio organization -- was noncommittal. "While we have not had a chance to investigate the specific details of the incidents [that] the petition refers to, we agree with the importance of acting to support the security of high frequency communications," RAC said this week.

By mid-week, the online petition had gathered more than 850 signatures, primarily from Quebec and Ontario. Canada has more than 50,000 Amateur Radio licensees.

Selection of Schools/Groups to Host Contacts with Space Station Narrowed to Seven

Amateur Radio on the International Space Station ([ARISS](#)) has announced that five schools and two organizations have advanced to the next stage of planning to host Amateur Radio contacts with ISS crew members during the first half of 2019. A review team of teachers from the ARISS-US

Education Committee selected proposals, moving the process into phase 2.



"ARISS's primary goal is to engage people in science, technology, engineering, and math (STEM) activities, and

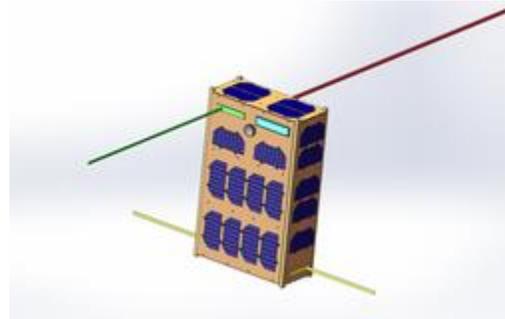
involve them in pursuits related to space exploration, Amateur Radio, communications, and associated areas of study and career options," the ARISS announcement said.

The schools and organizations are Faith Christian Academy, Orlando, Florida; Hidden Oaks Middle School, Prior Lake, Minnesota; Huntington High School, Huntington, Texas; Moriah Central School, Port Henry, New York; The Children's Inn at National Institutes of Health (NIH), Bethesda, Maryland; Park County Public Library with Boys & Girls Club of the High Rockies, Fairplay, Colorado, and Pembroke Junior-Senior High School, Corfu, New York.

ARISS anticipates that NASA will be able to provide scheduling opportunities for these US host organizations. The candidates must now complete an equipment plan that demonstrates the ability to carry out the ham radio contact. Once ARISS approves the equipment plans, finalists will be scheduled as their availability and flexibility match up with the scheduling opportunities.

CAMSAT Offers More Details on New Satellites, One Carrying HF Transponders  
CAMSAT, China's Amateur Radio Satellite organization, has offered additional details about the three Amateur Radio satellites it plans to launch later this year. Two of the satellites, designated CAS-5A and CAS-6,

will carry transponders, and one of them will



**Artist's rendering of the CAS-5A satellite. [Image courtesy of CAMSAT]**

offer HF capability.

CAMSAT's Alan Kung, BA1DU, told ARRL that the 6U CAS-5A will carry two HF transponders and two V/UHF transponders. The plentiful equipment package includes an H/T (21/29 MHz) mode linear transponder, an H/U (21/435 MHz) mode linear transponder, an HF CW telemetry beacon, a V/U linear transponder, a V/U FM transponder, a UHF CW telemetry beacon, and UHF AX.25 4.8k/9.6k baud GMSK telemetry.

- The H/T mode linear transponder will have a 30 kHz wide uplink centered on 21.400 MHz, and a downlink centered on 29.490 MHz. RF output is 0.5 W.
- An HF CW telemetry beacon will transmit on 29.465 MHz with 0.1 W.
- The H/U mode linear transponder will have a 15 kHz wide uplink centered on 21.435 MHz, and a downlink centered on 435.505 MHz. The RF output is 0.5 W.
- The V/U mode linear transponder will have a 30 kHz wide uplink at 145.820 MHz, and a downlink at 435.540 MHz. The RF output is 0.5 W
- The V/U mode FM transponder will uplink at 145.925 MHz, and downlink at 435.600 MHz. The

transponder passband is 15 kHz, and the RF output is 0.5 W.

- The UHF CW telemetry beacon will transmit on 435.570 MHz, with an RF output of 0.1 W.
- UHF AX.25 4.8k/9.6k baud GMSK telemetry will transmit on 435.650 MHz at 0.5 W.



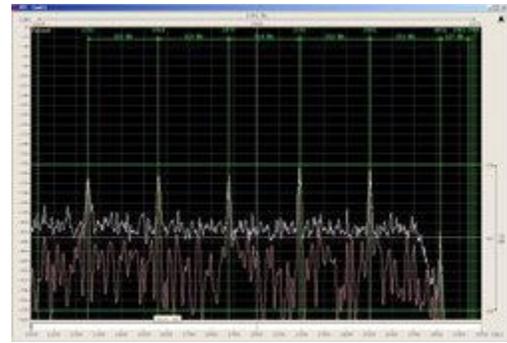
A satellite within a satellite, the tiny CAS-5B, weighing 0.5 kilogram, will be deployed from CAS-5A in orbit. It will carry a UHF CW beacon on an Amateur Radio frequency. CAS-5A will launch from the Jiuquan Satellite Launch Center in late September.

Set to be launched at sea, the 50-kilogram CAS-6 microsat will include a VHF CW telemetry beacon, a U/V mode 20 kHz linear Amateur Radio transponder, and AX.25 4.8k baud GMSK telemetry. It will also carry an atmospheric wind detector and other systems that will operate on non-amateur frequencies.

**Iranian Radars Showing Up on 10 Meters**  
While 10 meters has not been the hottest band in the Amateur Radio toolkit of late, Iran apparently has found it an ideal spot to operate various radars. The interference was audible in International Amateur Radio Union Region 1 (IARU R1) and perhaps elsewhere in the world.

Kung told ARRL that the HF, VHF, and UHF antennas are quarter-wave monopoles.

A satellite within a satellite, the tiny CAS-5B, weighing 0.5 kilogram, will be



**Waveform of an Iranian radar on 10 meters. [Wolf Hadel, DK2OM, photo]**

"Iranian radars were very active on our 10-meter band every day [in May]," [reported](#) IARU Monitoring System (IARUMS) Coordinator for Region 1 Wolf Hadel, DK2OM, in the IARUMS newsletter. "On 28.860 MHz, we could daily receive the strong and long-lasting signals. Other frequencies were used in [frequency hopping] mode."

The list of additional Amateur Radio intruders on 10 meters included -- or in some cases, no longer included -- some of the usual suspects. Hadel reported that FM signals from Russian taxi dispatchers, driftnet fishery buoys, and Citizens Band "abusers" in Brazil have been operating on various 10-meter frequencies, "as usual." Meanwhile, some chronic intruding signals have disappeared. Among the missing is the 14,295 kHz harmonic from Radio Tajik on 4,765 kHz. Radio Hargeysa in Somaliland on 7,120 kHz is said to have been off the air for several weeks due to a transmitter failure. "We did not miss the transmissions," quipped Hadel, who also expressed the hope that the broadcast battle between Radio Eritrea and Radio Ethiopia on 40 meters may now be at an end. For some time now, Radio Eritrea contended with Ethiopian "white noise" interference on 7,140 and 7,180 kHz. This month, Ethiopia announced that it would accept a peace deal with Eritrea to end a bloody 20-year-old dispute.

A Fresh Voice for Broadcast Reporter Jamie Dupree, NS3T

A Washington, DC-based broadcast journalist and radio amateur, whose ability to speak was severely impaired a couple of years ago by a rare disorder, is adopting a technological solution to return his voice to the airwaves. ARRL member Jamie Dupree, NS3T, suffers from tongue protrusion dystonia, and he has limited speaking ability -- he uses the barrel of a pen in his mouth to help better control his tongue. He had to drop off the broadcast airwaves and turn to print and online journalism to continue covering politics for Cox Media Group's capitol bureau. But now, Dupree plans to leverage technology that will give him a



fresh voice. Dupree, 54, a contester and Potomac Valley Radio Club member, said in a [blog post](#) this week

that his plight attracted the attention of his colleagues at Cox Media Group, who mounted an effort at the company's Atlanta headquarters to find a high-tech solution to get him back on the broadcast airwaves. "What they found was a Scottish company named CereProc, which agreed to sift through years of my archived audio and build a voice," Dupree said. "The big news today is that it looks like that is going to work and allow me to 'talk' on the radio again." He's calling it "Jamie Dupree 2.0." "Does the voice sound perfect? No. But it does sound like me," Dupree continued. "When I type out some words, the text-to-

speech program that I use spits them out in my new Jamie Dupree 2.0 voice." Dupree concedes that the voice will sound robotic to some of his listeners, but "for the first time in 2 years, I will be back on the radio."

Dupree said the plan is for him to once again feed news stories to Cox Media Group's news-talk radio stations, putting him back on the air in hourly newscasts, reporting the news from Capitol Hill and Washington, DC.

"Jamie Dupree 2.0 is here -- and I couldn't be more excited about it!" he said. -- *Thanks to [The Daily DX](#) via Eric Rosenberg, W3DQ, PVRC*

Former Japan Amateur Radio League President Shozo Hara, JA1AN, SK  
Past Japan Amateur Radio League (JARL) President Shozo Hara, JA1AN, died on June 9. He was 91. A native of Nagasaki prefecture, he graduated from Waseda University in 1954 with a degree in electrical engineering and joined Eastern Japan Heavy Industries (now Mitsubishi



Heavy Industries). Working extremely long hours, Hara once wrote that he'd return home and tinker with Amateur Radio, not getting to sleep until 2 or 3 AM. Hara became a JARL

Director in 1972 and went on to serve as JARL President for 41 years. He also was the first president of the Japan Amateur Radio Development Association. Hara's other life interest was horseback riding, which he took up as a youngster. He engaged in and judged competitive events, rode in the Imperial Palace Riding Club, and

served as president of the Japan Equestrian Federation.

Hara stepped down as JARL president in 2011. He was inducted into the CQ Amateur Radio Hall of Fame in 2003.

### Ham Radio Humor:



### Johnston County ARRL VE Team:



The Johnston County ARRL VE Team will be hosting our next test session on Monday, June 25<sup>th</sup> at 7PM at the American Red Cross in Smithfield. The address is 805-A S. 3<sup>rd</sup> Street. This will be the last session before the new question pool goes into effect for the technician class license

Cost is \$15.00. You will also need a valid photo ID. If you do not have an FRN, you

should go to:

<http://wireless.fcc.gov/uls/index.htm?job=home>

And register for one. This will keep you from having to disclose your SSN. More information can be obtained by contacting Mike Callam KD4MC at [mcallam@centurylink.net](mailto:mcallam@centurylink.net).

#### JARS Officers

Pres.	Mark Gibson	N4MQU
VP	Stan Disbrow	WA2KQY
Sec.	Peggy Lee	KJ4OPH
Treas.	Paul Dunn	KD4BJD
Membership	Dianne Young	KE4VNX
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Ham of the Year	Dianne	KD4VNX
Editor	Mike Callam	KD4MC

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That does it for another edition of the "*Official Organ*". Don't forget that this month, we will be going over the Constitution and By Laws.



73 de KD4MC