



THE OHM TOWN NEWS

Voice of the Bridgerland Amateur Radio Club

>>>>>>> <https://www.barconline.org> <<<<<<<

September 2017

Some Contents...

President's Message	2
Upcoming Activities & Nets	3
SwaptoberFest Info	5
Field Day 2017	6
More Balloon Launches	7-8
ARRL News and Information	11-15
Test Questions for General Class License	17



ARRL Affiliated



PRESIDENT'S MESSAGE

On September 7th, we have our BARC Pot Luck Fall Social @ 6:00 PM. The location is 360 East 450 North, Millville (Providence South State Center Pavilion). Everyone is invited to this social. You don't have to be a member of BARC to attend this social. This is a way to get to meet those voices you have talked to on the radios in person and have an eye-ball QSO. Just bring a food item to share with the group. Please bring your own plate, eating utensils, and cup. Hope to see you all there. After the social at about 7 PM, there will be a short LOTOJA meeting for last minute updates and to hand out the LOTOJA packets to those who are supporting LOTOJA on September 9th.

Last month was the solar eclipse that went across the US. I had seen several partial solar eclipses, but never experienced a total solar eclipse. Being in a total solar eclipse was something that I wanted to experience. I looked at the totality path across Oregon, Idaho, and Wyoming to determine where would be a good place to go. Wyoming looked good since it had more open area to get to for camping. The Gros Ventre area just north east of Jackson WY was in the totality path and looking at the area from google earth seemed to have many places to camp.

I mentioned the possible area I was looking at for the eclipse to Chris Clement K7CTC. He later made a trip to check out the area a couple of weeks before the eclipse and identified several areas for camping. I settled on the Crystal Creek Campground which is about 13 miles east of Kelly WY since Chris indicated the campground and the area had just a few campers.

So I headed out on the afternoon of August 17th for the campground and arrived there to get the last spot at the campground. They had marked off the open overflow area for individual sites. I was surprised that so many people were already there camping.

The next day I finished setting up and turned on my HF radio, IC-7600 and the AH-4 tuner with a 70 ft end feed antenna. The first thing I noticed was the yellow lines on the band scope. Multiple noise at S9+ level about 6 kHz wide. There was also lesser noise, blue lines, of about S4-5 that was also constant. The culprit I suspected was the solar panels and inverters that were being used in the campground. Campers on both sides of where I was had solar panels set out charging their batteries. In between the noise it was useable and I made many contacts on 20m to Maine, Vermont, Maryland, Connecticut, and other eastern states during the North American QSO Party. And at 3 AM when there was no sun and activity in the camp, all was quiet on the 20m band, then as the sun came up the noise on the band steadily increased.



(Continued on page 4)

UPCOMING 2017 ACTIVITIES

- 07 Sep, 6-9 PM—BARC Pot Luck Fall Social & LOTOJA Mtg @** the Stake Center Pavilion located at 360 E 450 N Providence, UT. This is the club meeting for September
- 09 Sep, LOTOJA bicycle race** — Chair Persons: Kevin & Tyler ([More Info Here](#) or [Here](#))
- 13 Sep, 7:30 PM - ARRL Rocky Mountain Division Net** 147.200/IRLP Node:9871
- 16 Sep, 8:00 AM — RACES HF Net** 3920 KHz
- 16 Sep, Top of Utah Marathon** — Lead Person: Laurie Littledike ([Info here](#) or [Here](#))
- 20 Sep, 7:00-9:00 PM — Cache County ARES meeting** at the Sheriff's Office
- 23 Sep, Bike The Bear**
- 29-30 Sep, The Bear 100** — Lead Persons: Ted & Cordell ([More Info Here](#))
- 11 Oct, 7:30 PM - ARRL Rocky Mountain Division Net** 147.200/IRLP Node:9871
- 12 Oct, 7:00 PM - ARRL VEC License Test Session @** BTC on 600 West, Logan Room 840. ([More Info Here](#))
- 14 Oct, Swaptoberfest** — In place of Club Meeting for October ([Info on page 5](#))
- 18 Oct, 7:00-9:00 PM — Cache County ARES meeting** at the Sheriff's Office
- 19 Oct, 8:00 PM RACES VHF Net** 449.650 pl 100.0 Mt. Pisgha 147.180 Snowbird 147.20 IRLP
- 28 Oct, 3:00 PM - ARRL VEC License Test Session @** BTC on 600 West, Logan Room 840. This test follows the one day Technician License class from 8 to 3. ([More Info Here](#))
- 11 Nov, BARC Club Meeting**
- 06 Dec, BARC Club Meeting/Christmas Party**

For more calendar information see the barconline.org/calendar

Local Radio Nets:

The **Weekly BARC net** is for BARC members and anyone else that would like to check in, held **every Tuesday night at 9:00 P.M.** local time on the Mt Logan BARC Repeater and Linked Systems (146.720)

The **ARES** monthly net is the **1st Tuesday** of each month on 146.720 at **8:00 P.M.**

All ARES members are invited to check in and participate

The **BARC Ladies Net** is every **2nd and 4th Tuesday** at **8:00 P.M.** on 146.720 and all licensed lady amateur operators are invited to check in

(Presidents Message Continued from page 2)

Chris Clement K7CTC and his family arrived Saturday afternoon at the campground. He said there were many camping along the road on the way up to the campground.

On the day of the eclipse, there was excitement in the camp. There were some in the camp that were not even aware that the eclipse was going to happen, but very excited to be able to witness it. In the camp, there were people from Canada, Japan, Germany, France, Czechoslovakia, Great Britain, Poland, and Holland. The day started out with some clouds but cleared about an hour before the start of the eclipse. As the eclipse progressed, it was amazing the seconds before totality what a small amount of sun light can still provide light, and then it quickly became like a twilight dark. You could see Venus and some other bright stars but the horizon was still bright so could not see any stars down on the horizon. In all the eclipse was something to experience, to see the dynamics of the universe in action.

73,
Cordell
KE7IK



In earlier issues of The Ohm Town News one of our regular features was to have an article spotlighting a Ham in the area or someone that most of us know. We would like to begin doing this again. If anyone is interested in writing a Ham Profile or helping with a project to do this please let a member of the Board know.

The Ohm Town News Editor



BRIDGERLAND AMATEUR RADIO CLUB

Online

SwaptoberFest

Saturday October 14th, 2017, 8:00 AM - Noon



146.72 PL 103.5 * Intertie 449.650 PL 100 * DMR 447.000/447.125

*** B T C West Campus – East Doors ***

1400 North 1000 West Logan, UT- 7:00 AM Set Up

Refreshments

Admission & Tables Free



Field Day 2017



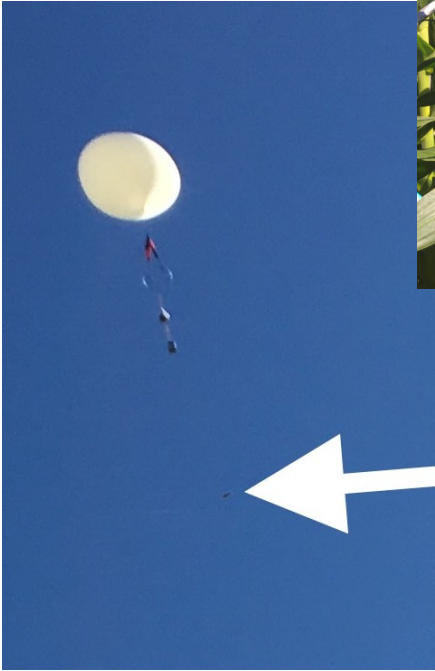
Mel Parks NM7P, ARRL Utah Section Manager, attended our Field Day event on 24 June 2017. Mel spoke at the dinner and was able to talk individually with many of those attending our Field Day event. Mel saw our Field Day setup and Theo Thomson K7TWT explaining his CrankIR portable antenna setup.

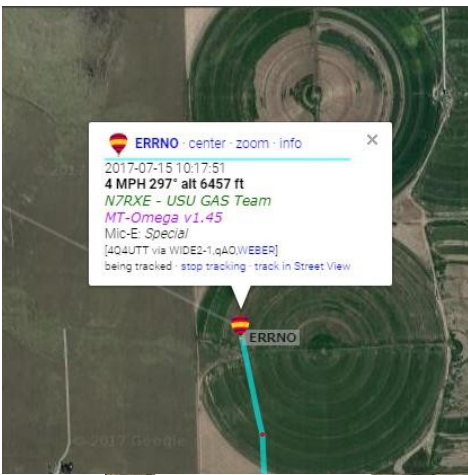


More Balloon launches on July 15 and July 29

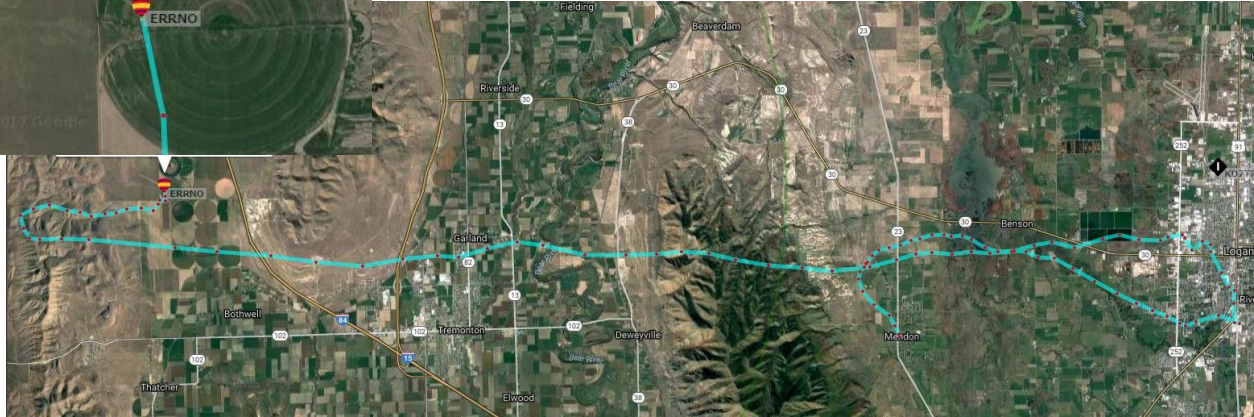


The one on July 15 was recovered in a corn field





The path and the corn field where the one came down on the 15th



The paths of the ones on the 29th were very close, and they almost came down in a parking lot

ERRNO-5 center · zoom · info
 2017-07-29 11:34:23
 alt 4544 ft
 Telemetry 2017-07-29 11:34:23: show telemetry
 Ch 1: 84, Ch 2: 384, Ch 3: 0, Ch 4: 0, Ch 5: 0
 KI7PAH - USU GAS Team
 Mic-E: In service
 [T1UXTK0 via KF7VJQ-3,WIDE2,qAR,KD7TRN-4]
 being tracked · stop tracking · track in Street View

ERRNO-6
 Updated: 2017-07-29 11:14:34 (22m)
 Position: 41°57.85' N 111°53.76' W

ERRNO-5
 Updated: 2017-07-29 11:34:23 (2m)
 Position: 41°58.41' N 111°53.75' W
 Wx: 79°F 41% 1021 mbar 1.5 MPH NW

Other views:

- Station info
- Raw packets
- Status packets - Beacon packets
- APRS/CWOP weather - Telemetry
- Messages - Bulletin board
- Prefix browsing
- Google Earth KML ?
- Data export tool
- Preferences - My account

Information:
 Stations currently moving · FAQ · Blog
 Discussion group · Linking to aprs.fi · A
 sites · Service status · Database statist
 Advertising on aprs.fi · Technical detail
 API · Change log · Planned changes ·
 Credits and thanks · Terms Of Service
 iPhone/iPad APRS

Report of ARRL-VEC Exam Sessions held in June and July.

On Thursday, June 1, 2017 a license exam session was held at BATC. Here are the results of the exams given at this session.

The following individuals earned a Technician License:

Samuel Dalrymple – KI7ODJ
Robyn Dowding – KI7ODO
Gary Frey – KI7ODF
William Holt – KI7ODG
Blaine Packer – KI7ODN
Jerad Reay – KI7ODI
Kyle Ricks – KI7ODH
Robert Spendlove – KI7ODM
Stephanie Taylor – KI7ODL

The following upgraded to a General License:

Dennis Frasier – KI6HOP
Anthony Peel – KG7SDB

The following individual passed both the Technician and General Exams:

Tyler Gardner – KI7ODK

Here is a summary of the number of exams given and new licenses earned at this session:

Technician License Exams Given:	14	New Technician Licenses Earned:	9
General License Exams Given:	8	New General Licenses Earned:	3
Extra License Exams Given:	0	New Extra Licenses Earned:	0
Number of Exams Given:	22	Number of New Licenses Earned:	12
Number of People Served:	18		

On Saturday, July 15, 2017 a one day technician license class was held at BATC followed by an exam session. Here are the results of the exams given at this session.

The following individuals earned a Technician License:

Joshua Adams – KI7OZU
Kevin Angus – KI7OZS
Parker Atkinson – KI7OZR
Kelly Burch – KI7PAF
Jill Clark – KI7OZZ
Delaney Dowding – KI7PAK
Nolan Garrity – KI7OZT
Allen Gilbert – KI7PAM
Ammon Hepworth – KI7PAG
Richard Herndon – KI7PAE

Report of ARRL-VEC Exam Sessions held in June and July. (Continued)

The following individuals earned a Technician License (continued):

Phillip Lowry – KI7PAA
Cody Merrill – KI7OZX
Randy Miller – KI7PAI
Michael Moore – KI7PAB
Philip Nelson – KI7PAH
Jacob Parslow – KI7OZV
Patrick Robanske – KI7PAD
Samuel Searle – KI7OZY
Doug Webster – KI7PAC
Jonathan Wiser – KI7OZW
John Zundel – KI7PAJ

The following upgraded to a General License:

Richard Harris – KC7TXX
Michael Remley – KI7GCY

Here is a summary of the number of exams given and new licenses earned at this session:

Technician License Exams Given:	33	New Technician Licenses Earned:	21
General License Exams Given:	16	New General Licenses Earned:	2
Extra License Exams Given:	3	New Extra Licenses Earned:	0
Number of Exams Given:	52	Number of New Licenses Earned:	23

Number of People Served: 36

Congratulations to everyone that earned first Amateur Radio license or upgraded their license on June 1st or July 15th.

Thank you to all of the VEs that helped with these exam sessions.

There are two exam sessions scheduled in October as follows:

Thursday, October 12th at 7:00 pm at Bridgerland Technical College room 840

Saturday, October 28th at 3:00 pm immediately following the one day Technician license class at Bridgerland Technical College room 840

Please tell your family members and friends about these opportunities to earn their first license or upgrade their license.

Richard Elwood
KE7GYD
VE Liaison

The ARRL Letter for August 24, 2017

Solar Eclipse QSO Party a Hit, Science Conclusions Await

Additional Analysis

The 2017 Solar Eclipse QSO Party (SEQP) is history, and, while logs are still coming in, the preliminary participation numbers look good, according to Nathaniel Frissell, W2NAF, of [HamSCI](#).

"Although the final numbers are not yet in, preliminary reports show that over 670,000 spots were detected by the Reverse Beacon Network (RBN), and over 542,000 spots were reported to [PSKReporter](#) [PSK Automatic Propagation Reporter] during the SEQP," Frissell told ARRL on August 22. "These numbers will increase as data is processed."

Frissell said overall, the event went well, and he heard a lot of on-the-air activity during the 8 hours the SEQP was running.

"It will take some time to get a more scientific analysis of this, but we should have some results by the middle of this semester," said Frissell, who is an associate research professor at the New Jersey Institute of Technology. Frissell and others are investigating whether the sudden absence of sunlight during the eclipse -- and especially of solar ultra-violet and x-rays -- would briefly change the properties of the upper atmosphere.

Despite more than 60 years of research, "open questions remain regarding eclipse-induced ionospheric impacts," Frissell explained in a paper, "HamSCI and the 2017 Total Solar Eclipse," that he'll deliver this year at the ARRL-TAPR Digital Communications Conference (DCC).

Once they submit a log, SEQP participants will

get a PDF Certificate of Participation. Frissell, who was in Gilbertsville, Kentucky, to observe the eclipse, said, "Totality was beautiful."

He is encouraging anyone who took part in the SEQP to [submit a log](#) by September 30. Once their logs are submitted, SEQP participants will get a PDF Certificate of Participation. Frissell, who was in Gilbertsville, Kentucky, to observe the eclipse, said, "Totality was beautiful."

At Maxim Memorial Station W1AW, the focus was more on keeping on top of any emergency situations that could arise from the thousands of visitors converging along the narrow strip of totality. ARRL Emergency Preparedness Manager Mike Corey, KI1U, and his assistant Ken Bailey, K1FUG, checked into and monitored the SATERN Net on 20 meters. They also monitored the interoperability channel 1 on 60 meters for coordination with federal partners. W1AW Station Manager Joe Carcia, NJ1Q, checked into *WL2K* nodes on 40 meters for any possible traffic. "Also, during this time, we went outside to look at the eclipse!" Carcia added.

Many Amateur Radio special event stations were also on the air along the path of totality on August 21.

Veteran Broadcast Listener (BCL) Bill Feidt, NG3K, in Maryland, conducted an informal propagation experiment on the AM broadcast band, listening on 1,070 kHz, which, he reported, "came alive with many signals" at about 1830 UTC. "It was pretty much a jumble," he told ARRL. "But just before 1900 UTC, I was able to identify WNCT in Greenville, North Carolina, which became quite strong and dominant for a few minutes." WNCT's 50 kW daytime signal is aimed away from Maryland.

Elsewhere, using the S-meter on his Panasonic RF-4900 receiver, 88-year-old John S. Erickson of Schenectady, New York, the father of ionospheric researcher Phil Erickson, W1PJE, recorded the signal strength of WWV time 15 MHz evsignals on 10 and every 10 minutes. His results show that nighttime conditions, where WWV got stronger on 10 MHz and weaker at 15 MHz, occurred before local eclipse passage on long paths. His data is being passed on to HamSCI for analysis.



HamSCI's Nathaniel Frissell, W2NAF, was in Kentucky for the eclipse. [Photo courtesy of Nathaniel Frissell, W2NAF]



SWL John S. Erickson of Schenectady, New York, tracked WWV signals during the eclipse. [Photo courtesy of Phil Erickson, W1PJE]

not to the extent that folktales report," Schwarz and the MDSR team said in a news release. "During the eclipse, we measured in three locations, and two did not show any changes in the way propagation behaves. On the third station, at an elevation of 900 meters, the 40-meter band came up, but that is not any different from regular 40-meter behavior."

The team believes that increased absorption on the low bands from high solar activity may have been a factor in the measurement's not yielding expected results. "The small band of darkness could not compensate for the thicker D Layer," the MDSR news release said.

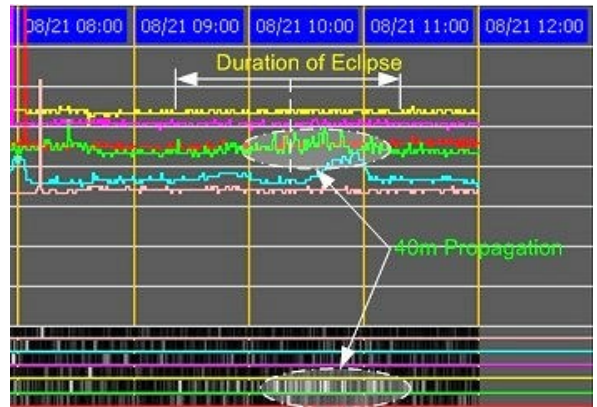
Frissell told Schwarz that he'd be "very hesitant to make these conclusions so quickly and based on observations from a single point of reference."

"We know from past experiments that there are significant ionospheric changes resulting from the eclipse. Even from a citizen-science standpoint, many of these changes have been documented. We are hoping to see these effects on a larger scale." Read [more](#).

"RF Seismograph" Sees Little Effect

Elsewhere, an initial analysis of solar eclipse [RF Seismograph](#) measurements by Alex Schwarz, VE7DXW, and his Modulation-Demodulation Software Radio (MDSR) group has suggested that the effect of the brief interruption in solar radiation within an approximately 70-mile-wide strip had minimal overall effect on radio propagation. The Scanning RF Seismograph is a real-time HF propagation monitoring tool.

"The Solar Eclipse RF Seismograph exclusively showed that propagation changes, but



An RF Seismograph screen capture. [Graphic courtesy of Alex Schwarz, VE7DXW]

could not compensate for the thicker D Layer," the

ARRL Simulated Emergency Test (SET) Fall Classic Set for First Weekend in October

The main weekend for the 2017 ARRL Simulated Emergency Test (SET) is only a little more than a month away -- Saturday and Sunday, October 7 and 8. This primary League-sponsored national emergency exercise is designed to assess the skills and preparedness of ARES® and other organizations involved with emergency and disaster response.

"Every local ARES team and/or ARRL Section will come up with their own scenarios and work with [served agencies and partner organizations](#) during the SET," said ARRL Field Organization Team Supervisor Steve Ewald, WV1X, who pointed out that not all SETs will take place on the first full weekend of October.

"SETs can be scheduled at the local and Section levels and conducted throughout the fall season to help maximize participation," Ewald said, "and ARRL Field Organization leaders have the option of conducting their SETs on another weekend if October 7 and 8 are not convenient."

ARRL Field Organization Leaders -- Section Managers, Section Emergency Coordinators, Section Traffic Managers, District Emergency Coordinators, Emergency Coordinators, and all of their Assistants and Net Managers -- are among those tasked with developing plans and scenarios for this year's SET, Ewald explained.

"The SET invites all radio amateurs to become aware of emergency preparedness and available training," Ewald said. "ARES, Radio Amateur Civil Emergency Service (RACES), National Traffic System™, SKYWARN, Community

Emergency Response Team (CERT), Salvation Army Team Emergency Radio Network (SATERN), and other allied groups and public service-oriented radio amateurs are encouraged to participate."

The object of the annual nationwide exercise is to test training and skills and to try out new methods. "It's a time to work with partner organizations and served agencies to get to know them better and to determine their needs *before* an emergency or disaster strikes," Ewald said. "Knowing who to contact within partner groups with the planned procedures will help everyone accomplish their goals and succeed in their missions."

To get involved, contact your local ARRL Emergency Coordinator or Net Manager. See the [ARRL Sections](#) pages or get in touch with your ARRL Section Manager (see page 16 of QST for contact information). Read [more](#).

The ARRL Letter for August 31, 2017 Amateur Radio Volunteers Assisting Where Needed in Harvey Response

Amateur Radio Emergency Service (ARES®) volunteers have been pitching in to support communication at some Red Cross shelters in south Texas in the ongoing aftermath of catastrophic and unprecedented flooding resulting from Hurricane Harvey, now a Tropical Depression. ARES members also have been serving as net control liaisons to the Harris County Office of Emergency Management (OEM). At mid-week, some 3 dozen volunteers were assisting at shelters. Another dozen were on tap to serve as OEM liaisons. ARRL Emergency Preparedness Manager Mike Corey, K11U, said the Red Cross is in need of Red Cross-trained shelter managers and volunteer management specialists. Anyone interested should [contact](#) him.



Harvey from the vantage point of the International Space Station (ISS). NASA's Johnson Space Center ([JSC](#)) in Houston has closed to all but mission-essential personnel through Labor Day, due to the effects of Harvey. Most US astronauts live in the Houston area. JSC said closing would allow the center to focus on its priorities, including the return to Earth this weekend of ISS crew members Peggy Whitson, ex-KC5ZTD; Jack Fischer, K2FSH, and Fyodor Yurchikin, RN3FI. [Jack Fischer, N2FSH, photo]

A variety of emergency, health-and-welfare, traffic, and tactical nets in south Texas have been active on HF at various times of the day as well as on a wide array of VHF and UHF repeaters, which remain available as needed. The Salvation Team Emergency Radio Network (SATERN) has been convening on 14.265 MHz, while the Military Auxiliary Radio Service (MARS) has been using the 5.330.5 (USB) MHz interoperability channel on 60 meters.

On August 31, the National Hurricane Center reported that flooding rains were continuing across far eastern Texas and western Louisiana, with heavy rainfall expected to spread northeastward through the lower Mississippi Valley and into the Tennessee Valley over the next day or two. ARES volunteers are on standby in Louisiana.

"During the storm response, all Amateur Radio operators -- and perhaps especially those involved in contest activity -- are advised to *listen first* and respect any frequencies in use for emergency response communication," Corey said. He cited the SATERN Net on 14.265 MHz and the South Texas Traffic Emergency and Health and Welfare nets on 7.285, 7.290, 3.873, and 3.935 MHz. Digital emergency and health and welfare frequencies are 3.5925 and 7.095 MHz.

Earlier this week, ARES team members were advised that the impact to the region's communications infrastructure had been relatively minimal, considering the strength of the storm and the magnitude of the flooding. The storm did ravage cellular service in some Texas counties, however, especially Aransas (84%) and Refugio (73%) counties, the FCC reported. Overall, however, the FCC deemed the cellular system 95% functional.

ARRL South Texas Public Information Officer Mike Urich, KA5CVH, [told ARRL](#) on August 30 that "hardening" of the telecommunications infrastructure to make it more immune to storm damage has diminished the need for Amateur Radio communication support and altered hams' traditional role there. Urich pointed out, however, that the Amateur Radio telecommunications infrastructure in South Texas has remained analog, as "the lowest common denominator" of technology -- VHF/UHF FM, and HF -- and has the highest degree of interoperability. "That's what we train

to, that's what we teach, that's what we practice," he said.

Urich spent more than 40 hours alternating shifts at the Harris County Emergency Operations Center (EOC). Urich said the area's extensive system of repeaters makes it possible for local radio amateurs to serve as "another set of eyes and ears" in spotting and reporting problems that may require official attention.

The Hurricane Watch Net ([HWN](#)) suspended operations for Hurricane Harvey on August 26 after 51.5 continuous hours of activation. The [VoIP Hurricane Net](#), and [WX4NHC](#), the Amateur Radio station at the NHC in Miami, also activated as Harvey approached landfall in Texas as a Category 4 hurricane. The VoIP Hurricane Net has been informally monitoring [EchoLink](#) 7203, [IRLP](#) 9219, and [AllStar](#) *33007203 for requests from the affected area at the request of [Humanity Road](#), said Lloyd Colston, KC5FM.

He said a station checked in via EchoLink to request the rescue of a grandmother and children. "That request was relayed to the United States Coast Guard Houston," Colston told ARRL. He said hams in the affected region needing to relay rescue needs should first call 911, then their local emergency operations center, and, if those aren't available, then the US Coast Guard -- in that order. He also said individuals in the flood zone are reporting cellular telephone degradation.



The Houston Police Lake Patrol has been among those rescuing stranded residents of the flood zone.

ARRL [South Texas Section](#) Manager Lee Cooper, W5LHC, told ARRL on Monday that the disaster would remain in the response phase for several days, although needs may change later in the response phase or when it transitions to the recovery phase. ARRL South Texas SEC Jeff Walter, KE5FGA, said ARES members could participate in any nets related to the storm response from home.

"Harris County and the City of Houston have issued a shelter-in-place order," Walter pointed out over the past weekend. "The local region is paralyzed. Resources are stretched to accommodate all calls for assistance. Take care of your family first, then if you are able to help in the recovery phase, contact your local Emergency Coordinator or District Emergency Coordinator for instruction on what to do. Do not show up without approval from your local EC."

As of August 31, some 195,000 customers were without power in Texas. American Red Cross shelters were reporting more than 34,000 occupants in Texas; more than 980,000 people have been ordered to evacuate. The Texas Emergency Operations Center is at full activation, and Governor Greg Abbott has declared a state of disaster for 50 Texas counties, while evacuation orders and advisories are in effect for eight counties and several independent communities in Louisiana, where the state EOC is fully activated. A state of emergency also exists for all Louisiana parishes in preparation for widespread flooding. Read [more](#).



The projected track of Tropical Storm Harvey as of August 31 at 0300 UTC. [Graphic courtesy of NOAA]

ARISS Cross-Band Repeater Not Available for General Communication

The cross-band FM voice repeater aboard the International Space Station (ISS) has not officially been activated for general amateur use, although some stations have reported successful contacts. The system is being used in an effort to detect telemetry from three recently deployed CubeSats.

Russian ISS crew members last week released three satellites carrying Amateur Radio payloads -- TOMSK TPU-120 (RS04S), with FM voice announcements on 437.025 MHz; Tanusha-SWSU-1 (RS-6S) with FM voice announcements and AX.25 9,600 bps packet on 437.050 MHz, and Tanusha-SWSU-2 (RS-7S) with FM voice announcements and on AX.25 9,600 bps packet on 437.050 MHz.

They set up the ISS repeater as a cross-band relay between 437.050 MHz and 145.800 MHz at the last minute, because they were concerned about getting telemetry from their satellites, which might be spinning more than expected. They are hoping that the nearby receiver on the ISS might be able to capture and retransmit telemetry not being received up on the ground.

ARISS has advised that using the voice repeater for general contacts can interfere with this mission. ARISS Ham Project Coordinator Kenneth Ransom, N5VHO, noted that the FM cross band repeater has been a capability of the onboard Kenwood D-700 transceiver since it was first flown to the ISS in 2004.

"It has been utilized very little during that time, due to concerns by the Russians that the unit might overheat," he said.

When the ARISS voice repeater is active and authorized for general amateur voice contacts, the uplink is 437.800 MHz, and the downlink is 145.800 MHz. -- *Thanks to ARISS and AMSAT News Service*



Top-Level Domain Name ".radio" Now Available

The top-level domain (TLD) name ".radio" is now available to the radio industry and Amateur Radio enthusiasts, and is reserved for individuals and companies with active interest in the radio sector. The .radio TLD can be used for web and e-mail addresses and will be managed by the European Broadcasting Union (EBU) with support from other world broadcasting unions. Visit the [.radio domains registration site](#) to request a .radio domain.

Individuals or entities in these categories will be accepted for the use of a .radio domain:

- Radio broadcasting stations
- Unions of Broadcasters
- Internet radios
- Radio Amateurs
- Radio professionals (journalists, radio hosts, DJs, etc.)
- Radio-related companies selling radio goods and services



Radio products and services

One or more .radio domain name(s) can be requested during the launch period, which ends on October 31, 2017. The cost for individual radio amateurs is about \$30, including tax.

"The EBU believes radio stations should be the focus of this new space on the internet, and considers them our highest priority," the announcement said. "However, other categories of applications from the radio sector will also be considered during this phase."

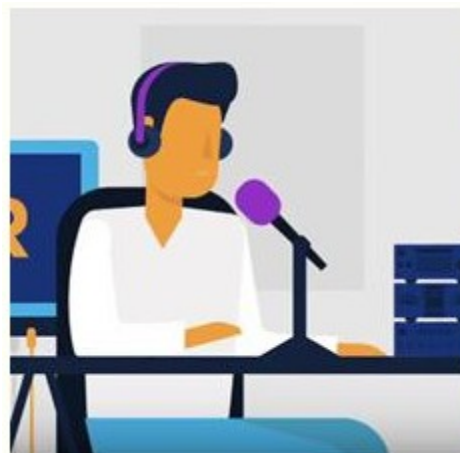
EBU's .radio TLD Manager Alain Artero suggested that those in the radio community may want to consider securing the integrity of their web presence by requesting appropriate .radio domains "for defensive reasons, initially."

"The TLD will be focused on content and matters specific to radio, and we want to prevent speculation and cybersquatting in this TLD; therefore, this extension will rapidly become a high-value internet space for websites, mail systems, and other internet applications," he continued.

The launch process will not be first come, first served. "The .radio team will seek to optimize domain name allocation to solve contentious issues and prioritize existing radio services," the EBU announcement said.

Starting in November, first come, first served rules will apply, although eligibility requirements remain the same.

For more information, visit www.nic.radio.



Silent Key

Leon Creger

6 July 2017

Leon Creger November 3, 1929 - July 6, 2017 Leon Jeffery Creger passed away at the age of 87 in Logan UT surrounded by his loving children and wife. He was the 2nd born of Floyd Harold Creger and Margaret Eva Bodrero: Loraine, Leon, John, Joe, Melvin, Wayne, and Betty. Leon worked hard his entire life, as a youth helping to provide for his family, and working in his yard through his last days. At the age of 80, he rebuilt his home after it burned down. Leon will be remembered for his work ethic, ingenuity, charity, and endless service. Leon graduated from North Cache High school and attended USU. He was highly honored when he achieved an Eagle Scout award, at that time considered to be equivalent to a collage education due to its rigorous requirements. Leon ardently loved and faithfully served his country. He joined the Utah State Guard in 1945 at the age of 17 in the 1st Battalion, 1st Regiment Services Battery 204 Field Artillery. He served in an Honor Guard at the close of World War II . Though he achieved the status of expert rifleman in the Army, his education enabled him to serve in the Korean War as a military intelligence officer rather than as a Sniper, which he counted as a great blessing. Leon and Marilyn served an LDS service mission at the Bishop's store house from '07-'09, and served another LDS mission in the Logan Temple Baptistery from '02-'12. Leon dearly loved Marilyn Humpherys Creger his wife of 55 years. They had 12 children, Melanie, Trini, Ricky, Eric, Howard, Lincoln, Sterling, Carlyle, Brenda, Dolly, Kendell Vanon, and Alyson. They have 22 grandchildren and 4 great grandchildren. Leon is now reunited with his Father in Heaven and sons and daughters who have gone on before. Please join our family in celebrating Leon's life at his funeral service on Wednesday 07/12 at 11 a.m. in the Lewiston 2nd ward church house located at 10 S 1600 W. Interment will take place at the Lewiston City Cemetery. We will miss our beloved father, husband and grandfather. He was a great example to all who knew him.

CREGER, LEON J, W7NRV

620 SOUTH 2400 WEST

LEWISTON, UT 843201802

License Class: Extra

Questions for The General Class License

1. (G1C06) Which of the following is a limitation on transmitter power on the 1.8 MHz band?
 - A. 200 watts PEP output
 - B. 1000 watts PEP output
 - C. 1200 watts PEP output
 - D. 1500 watts PEP output

2. (G2C08) What prosign is sent to indicate the end of a formal message when using CW?
 - A. SK
 - B. BK
 - C. AR
 - D. KN

3. (G3C02) Where on the Earth do ionospheric layers reach their maximum height?
 - A. Where the Sun is overhead
 - B. Where the Sun is on the opposite side of the Earth
 - C. Where the Sun is rising
 - D. Where the Sun has just set

4. (G4C10) What could be a symptom of a ground loop somewhere in your station?
 - A. You receive reports of "hum" on your station's transmitted signal
 - B. The SWR reading for one or more antennas is suddenly very high
 - C. An item of station equipment starts to draw excessive amounts of current
 - D. You receive reports of harmonic interference from your station

5. (G5C05) If three equal value resistors in series produce 450 ohms, what is the value of each resistor?
 - A. 1500 ohms
 - B. 90 ohms
 - C. 150 ohms
 - D. 175 ohms

6. (G6B15) What is the main reason to use keyed connectors instead of non-keyed types?
 - A. Prevention of use by unauthorized persons
 - B. Reduced chance of incorrect mating
 - C. Higher current carrying capacity
 - D. All of these choices are correct

7. (G7C08) What type of circuit is used in many FM receivers to convert signals coming from the IF amplifier to audio?
 - A. Product detector
 - B. Phase inverter
 - C. Mixer
 - D. Discriminator

8. (G8C09) What does the number 31 represent in "PSK31"?
 - A. The approximate transmitted symbol rate
 - B. The version of the PSK protocol
 - C. The year in which PSK31 was invented
 - D. The number of characters that can be represented by PSK31

9. (G9C08) What is meant by the "main lobe" of a directive antenna?
 - A. The magnitude of the maximum vertical angle of radiation
 - B. The point of maximum current in a radiating antenna element
 - C. The maximum voltage standing wave point on a radiating element
 - D. The direction of maximum radiated field strength from the antenna

10. (G0B13) What must you do when powering your house from an emergency generator?
 - A. Disconnect the incoming utility power feed
 - B. Insure that the generator is not grounded
 - C. Insure that all lightning grounds are disconnected
 - D. All of these choices are correct

(For answers to test questions see bottom of [page 18](#))

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[Go to TOP^](#)

Answers to questions on [page 17](#): 1-D, 2-C, 3-A, 4-A, 5-C, 6-B, 7-D, 8-A, 9-D, 10-A

