

***** No Meeting This Month - Happy 4th of July *****

Terry's Telegram...

Terry Evans, KF5OHR

Right off the top, we always hold our monthly meetings at the Bell County Communications Center, on the first Tuesday of the month. The first Tuesday of this month is **July 4th** - the Federal Holiday. In observance of the holiday, CTARC **Will Not** be holding a regular monthly meeting in July. Instead, the club will hold an "On-the-Air" meeting Monday, July 3rd, at 7:00 PM over the N5ZXJ repeater on 145.310(-) PL 123.

Russell-KG6FUJ, will be your Net Control Operator that evening, with attendance being taken and notes being taken for any information or club business you might want to bring forward. Even if you have no information to bring to the club's attention, this will be a good way to stay informed. Only items that should not be discussed over the air, would be Treasury information.

Last month I reported that the General Manager of KCEN-TV in Temple, has offered us space in their studio to set-up a radio station during severe weather outbreaks. Since then, Joe Mayer-N5JWM and Gerald Richmond-N5ZXJ, met with their General Manager and KCEN has agreed to purchase all of the needed radio equipment and to set-up the station and antenna system. It is believed the completion will be some time this Fall.

I was able to get by and talk with Priscilla the other day for a bit, and she seems to be doing much better, she thinks she will be going home at the end of this month.

It's starting to get hot out, and soon we will all need to watch out for over-heating. So keep plenty of water on hand when you are out cutting grass or maybe playing golf. I don't know why anyone would do that though. You have the little white ball in your hand to start off with, so why do you drop it on the ground and knock it away and then follow it just to kick it back up. Never understood that!

Saturday night in Belton was movie in the park, big turnout. Farmers Market is coming up; if you have not done either one of these you need to check them out.

Well, with the holiday coming up and no meeting this month, I guess I won't see you again until our August 1st meeting. Until then, I'll see you on the air!

73 de Terry KF5OHR





Echoes of War - Come Josephine

Some readers may remember the crime-fighting David Hasselhoff driving an artificially intelligent 1982 Pontiac Trans Am in the '80s TV show *Knight Rider* and a few may even recall the '60s sitcom with Jerry Van Dyke and his loquacious maternal 1928 Porter touring car in *My Mother the Car*. But before them all, was Josephine, the talking Jeep.



During World War II, station WNYC was cranking out war-related programming on a full-time basis. *Echoes of War* was one such series. The first radio play in the series was *Come Josephine*, which aired on July 11, 1944.

Written by WNYC news director Mitchell Jablons, this radio play took a whimsical approach to its serious subject, by having the story told from the point of view of a 'female' army Jeep named Josephine. She describes her relationship with "her" soldier, Joe, and their various exploits fighting fascists.

The production scores relatively high on the hokum meter, but is typical of the patriotic material that was broadcast at the time. You can listen again to this World War II era radio play, by visiting: <http://www.wnyc.org/story/120594-echoes-war/>



The Central Texas Amateur Radio Net meets every Thursday at 8:00 PM on the N5ZXJ repeater, on 145.310(-) PL 123.0 Join Us!

July NCS & Back-Up NCS Schedule

July 6th: Net Control: W5VEX Back-Up: AD5SK	July 13th: AD5SK KD5FJF
July 20th: Net Control: KD5FJF Back-Up: KF5OHR	July 27th: KF5OHR KE5ISN



The Belton 4th of July Parade will be held on Tuesday, July 4th and is a joint public service event of CTARC and the Temple Amateur Radio Club. Volunteers are needed to assist with the line-up of 300+ entries and to direct them on to the parade route. The initial meeting place will be at the VIP parking lot, on the campus of UMHB, located at West 10th Avenue and College Street in Belton, at 6:00 AM.

Communications will be through the W5AMK repeater in Belton, which is on 147.300(+) PL 123. Be sure to bring an HT and a yellow traffic type vest. The parade will start at 10:00 AM and should end about noon.

If you'd like to assist with this event, please contact Joe Mayer - N5JWM, at: jwm111@msn.com

For more info on the event itself, visit: <http://www.rodeobelton.com/>



IARU HF World Championships

Contest period runs from 1200 UTC, July 8th to 1200 UTC, July 9th on 160, 80, 40, 20, 15 and 10 meters. More info: <http://www.arrl.org/iaru-hf-championship>



Coryell County Joint Comm Group Meeting

The next meeting of the Coryell County Joint Comm Group will be on Tuesday, July 11th, at 11:30 AM at the Lil Tex Restaurant, 502 South Main Street, in Copperas Cove.



CQ World-Wide VHF Contest

Contest period runs from 1800 UTC, July 15th to 2100 UTC, July 16th on 6 and 2 meters. For more information visit: <http://www.cqww-vhf.com>



Scouting's Jamboree On-the-Air

K2BSA / 8, will be on-the-air July 15th through the 28th, from Glen Jean, West Virginia for the annual National Scout Jamboree. QSL cards go via K5ND with an s.a.s.e. For more info on this event, visit: <https://www.k2bsa.net/>



Islands On-the-Air Contest

Sponsored by the Radio Society of Great Britain, contest period runs from 1200 UTC July 29th, to 1200 UTC July 30th on 10, 15, 20, 40 and 80 meters.

For more information on this, visit: <http://www.rsgbcc.org/hf/rules/2017/riota.shtml>

What's New?



The Milam Amateur Radio Club - KG5DUO, has a new repeater on the airwaves from the sprawling megalopolis of Davilla, in Milam County.



The Davilla repeater site in Milam County - Photo: KF5OHR

Their new repeater can be accessed on 147.000(-) PL 123.0 and for more info on their club, visit their website at: <http://www.milamamateurradioclub.com/>



"Oh, but I must have my radio fixed for my evening to be a success!"



A group of Russians plan to be active from Iony Island, on or about 20 - 24 July, as **RIØC**. QSL via R7AL. More info at: <http://www.iony2017.com/eng>

KV1J will be active from Miquelon Island, 4 - 18 July signing **stroke FP**. QSL via his home call.

ZL3GA will be active from Efate Island, Vanuatu, 6 - 13 July as **YJØGA**. QSL via his home call.

SV1JG will be active from Gavdos Island, 1 - 10 July, as **SX9VK**. QSL via his home call.

KG4ZXN will be active from Antigua Island this month as **V21XN**. His exact dates there are not mentioned. QSL via his home call.

IZ2ZTQ is active from French Polynesia until 31 July signing **stroke FO**. QSL via IZ2LSP.

A group will be active from Market Reef, 1 - 7 July as **OJØV**. QSL via ON5TC.

VE6SH will be active from Antigua Island, 23 July - 7 August as **V29SH**. QSL via his home call.

A group is active on Huahine Island until 17 July as **TX5EG**. They will then be active from Hiva Oa Island, in the Marquesas Islands, from 29 July - 6 August. QSL via F6BCW.

JR1FKR is active on Koror Island, Palau, until 2 July as **T88TJ**. QSL via his home call.

A group will be active from Aruba Island, 22 July - 6 August as **P4ØX**. QSL via DL8UD.

UAØLCZ will be active on Popov Peter the Great Island 25 to 30 July as **R66IOTA**. QSL via his home call.

G4PWO will be active from Fonimagoodhoo Island, starting 18 July for 2 weeks as **8Q7PW**. QSL via his home call.

JAØJHQ will be active from Praslin Island, 26 - 31 July as **S79NH**. QSL via his home call.

F6CTF is active from the French Polynesia Islands, now through September as **TX5JF**. QSL via his home call.

PY2DY will be active from Lesbos Island, Greece, 4 July - 2 August as **SY8APQ**. QSL via his home call.

DL7ZM will be active from Georgia 13 - 20 July signing **stroke 4L**. QSL via ADØPY.

UA4RX will be active from Heiss Island, Franz Josef Land, Antarctica, starting July - August as **RI1FJ**. QSL via UA2FM.

TZ4PR is active from Mali until October. QSL via F1UIJ.

KH6QJ is active from Kiritimati Island, until 4 July as **T32AZ**. QSL via his home call.

W5JON will be active from St. Kitts Island, 12 July - 5 August as **V47JA**. QSL via his home call.

WB8YJF will be active from Ocracoke Island 16 - 23 July signing **Portable 4**. QSL via his home call.

4F2KWT will be active from Palawan Island, in the Philippines, 7 - 9 July as **4G1L**. He will operate on 20 and 30m CW & RTTY. QSL via his home call.

During the period 1 - 9 July, the League of Amateur Radio Emission Brazilians will be running a special event in observance of the Constitutional Revolution of 1932. More detailed information can be found at:

<http://www.labre-sp.org.br/diversos.php?xid=8> as well as at:

<https://forums.qrz.com/index.php?threads/constitutional-revolution-of-32-contest.570950/>

A group will be active from Crete, 1-9 July as **SX9VK**. QSL via SV1JG.

4V1G is active from Haiti until 6 July. Principal operation will be on 6 and 4m. QSL via W3HNC.

Twin-Lead J-Pole for 222-225 MHz

Larry D. Brown, WB5CXC

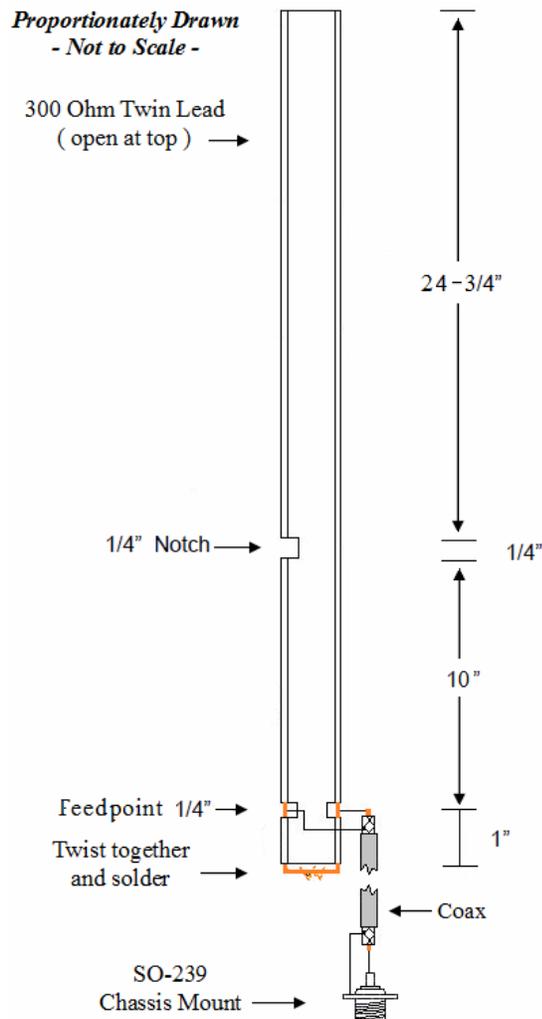
Editor's Introduction... This antenna design, along with others by Larry D. Brown-WB5CXC, can be found at his website at: <http://www.wb5cxc.com/index.html>

This page illustrates how to build a Twin-lead J-Pole antenna for use on 222-225 MHz made from 300 ohm twin lead (old style TV lead-in wire). Make several to carry in your Go-Kit, in your car, etc. This is a good project for a radio club or ARES Group, or just building an inexpensive antenna to get on 1.25 Meters.

Strip the bottom 1/2" insulation of each side of the twin lead and solder the leads together. Measure up from the bottom one inch and strip off a quarter inch of the insulation from both sides of the twin lead, this is where the coax will attach. From there, measure up ten inches on the left side and cut a 1/4" gap into the wire. Measure from the bottom and cut the twin lead for a total length of 37 inches. Connect the coax on the bottom section, the center conductor of the coax will go on the long side (right) and connect the outside (braid) on the short (left) side.

Once completed, insert the entire assembly into a length of 3/4" diameter PVC pipe, and attach the feed-point to an SO-239 chassis mount connector at the bottom of the assembly, in a 3/4" PVC cap. (See the June issue of the *Wavelength* where it describes the "DBJ-1 VHF-UHF Dual-Band J-Pole" as an example.)

This antenna requires no radials, is completely weather protected and can be constructed with basic tools and materials that cost under \$5.00.



Getting on the air... there isn't a whole lot of activity in our area on 222 - 225 MHz. However, there are three repeaters which you may find you can access from your QTH. They are the 224.300(-) PL 88.5 (K6STU) in Topsey; 224.360(-) PL 100 (WD5EMS) in Round Rock; and 222.360(+) PL 100 (WD5EMS) in Austin. You may also find traffic on the band's National Simplex Frequency of 223.500 MHz.



Summer Forecast Outlook

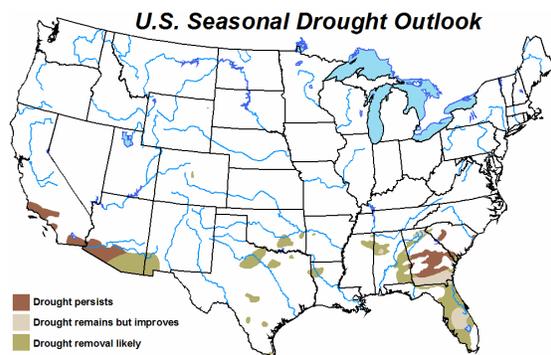
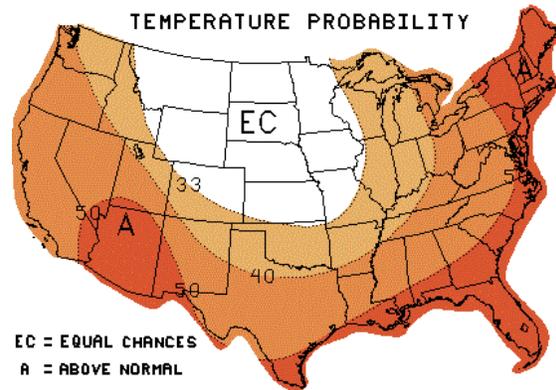
Wet weather and severe storms will keep extreme temperatures at bay in the Northeast and mid-Atlantic this summer, while heat and humidity will plague the South.

The Temperature Outlook favors above-normal temperatures for much of the country. The above-normal seasonal mean temperatures are most likely for the eastern U.S., across the southern states, and west of the Rocky Mountains. The greatest odds are for parts of the southwest, the gulf coast and Atlantic coastal regions.

The areas showing Equal Chances are forecast where odds of above, below, or near-normal seasonal mean temperatures

are expected to be similar to climatological probabilities.

Early in the season, periods of warmth will trigger severe weather, however, the storms are not expected to last long. Drier conditions will set in from mid- to late season, allowing temperatures to climb.

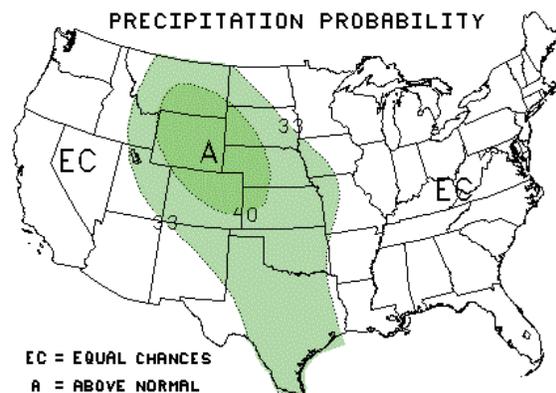


Unlike the summer of 2016, when drought conditions gripped portions of the region, this summer will bring on-and-off wet weather especially in July, to the region. This moisture will help to hold back extreme and prolonged heat. With the forecast of drier conditions setting in late in the season, just how persistent the heat will be will determine whether a mild or moderate drought is likely to develop.

Prolonged dryness could put stress on crops later in the season.

The Precipitation Outlook indicates enhanced probabilities of above-median precipitation for parts of the Rockies and High Plains, centered east of the Continental Divide, extending southward through the southern plains.

This area, including nearly all of Texas, is forecast for a 33% probability of above normal precipitation during the summer months. For nearly the rest of the country, an average amount of rainfall is expected.



The Significant Wildland Fire Potential forecasts included in this outlook, are beginning to show improvement and subside as tropical patterns are expected to develop bringing beneficial precipitation. Wildfire activity has begun to wane and green-up has begun to take hold as precipitation events have become more common.



While overall normal fire potential is forecast, bursts of more significant fire activity are possible. For the Southern Area, eventually a return of a wetter and lower fire risk fall weather pattern with warmer than average and drier than average weather patterns is generally expected. Fire risks during the fall will almost certainly be lower than they were during the fall of 2016.

A higher rain frequency as well as higher event rain totals are expected to minimize fire potential. Lightning strike ignitions will become the greater ignition threat where fuels remain receptive due to the existing drier fire environment.

In July and August the pattern of warmer and drier than average weather which has dominated the first half of the year will likely continue into mid-summer. While fire risks are expected to exhibit atypical seasonal trends into July, a higher humidity and a more favorable environment for afternoon storms during August should help reduce fire risks from previous levels.



Skywarn / Hurricane Prep Net



There is a weekly net that is held on Saturdays, at 7:00 PM CDT. You can join it by connecting to the EchoLink WX-TALK conference server, IRLP Reflector 9219 that is accessible through EchoLink. They also support report collection for the National Hurricane Center during times that a tropical cyclone makes landfall in the U.S. and elsewhere. To stay abreast of any new weather developments, you may want to monitor this net during hurricanes and possibly any other major severe weather events. For more information on this net, please visit: <http://www.voipwx.net/>



A Tropical Storm system is brewing in the Gulf of Mexico, with the current forecast track for a projected landfall at the mouth of the Sabine River on the Texas / Louisiana border. On this track, we *should* remain on the drier (west) side of the system.

Those with interests along the Texas coast and in inland areas should continue to monitor the latest information from the National Hurricane Center <http://www.nhc.noaa.gov/> as well as the National Weather Service <http://www.weather.gov/> in case any further westward track adjustments are made.



Medora Olive Newell *Feted by Royalty*

One of the earliest applications of wireless telegraphy was enabling communication between ships at sea and land stations. While early ships' operators were mostly male, some women entered the field as well. The primary requirement was a knowledge of Morse code and equipment operation, which many female telegraph operators possessed.

Medora Olive Newell began work as a telegraph operator in Durango, Iowa, in 1886 at the age of fourteen. In 1897, she moved to Chicago and became a commercial operator for the Postal Telegraph Company. Newell's first-class operator pay enabled her to live a fairly affluent lifestyle and she had the habit of spending her vacations abroad. During these trips, she would use the occasions for investigating telegraph and railway management and operation in European countries.

On a return voyage from Europe in 1904, she found herself aboard the Cunard liner *Slavonia* together with members of the Hague Peace Commission, who were on their way to the United States to persuade President Theodore Roosevelt to call another international conference to continue the work begun at the Hague in 1899. The Hungarian members of the delegation wished to send a birthday greeting to Emperor Franz Josef of Austria-Hungary by wireless, but the ship's wireless operator --for some reason-- was unable to send the message. Newell, who had a good working knowledge of wireless, took her place at the key and soon had successfully transmitted the greeting.

In transmitting the greeting, she had become possibly the first woman to operate by wireless on board a ship and this would also mark the first telegram that was sent from a ship at sea to a land station.

The grateful delegates thanked her for her assistance, and the secretary of the Hungarian parliament invited her to visit Hungary as the guest of the nation.

Some time later, she received an official invitation from the Hungarian nation to be the guest of honor at a series of banquets. Miss Newell spent three weeks in Hungary and was royally entertained.

After devoting an entire career in telegraphy, her key went silent on December 31st, 1946. She was 74.



Medora Olive Newell - circa 1907

Communications on the Moon

Editor's Introduction... This article by John Dilks-K2TQN, first appeared in the February 2005 issue of QST and is copyright the American Radio Relay League. It is reprinted here with their kind permission.

During the last 100 years, so many of our world's greatest accomplishments have been made by, or with the assistance of, men and women who also were ham radio operators. One of those was Jack Yanosov-KN2KEF.

48 years ago, on July 20, 1969 while we were glued to our TV sets, Jack Yanosov and his coworkers at RCA in Camden, New Jersey, were monitoring the NASA circuits to see if all of their radios and electronics were working properly. The excitement rose at 02:51:16 UTC, when the hatch was opened and the "actual" first words transmitted from Neil Armstrong's backpack radio were, "OK Houston, I'm on the porch." And a few seconds later at 02:56:15 UTC, as his feet reached the surface, Armstrong said those memorable words, "That's one small step for man, one giant leap for mankind."

Those words were sent via VHF radio using Amplitude Modulation with a radio designed by Jack Yanosov. He joined RCA at their Defense Communications Systems Division at about the same time as Sputnik was launched and the space race began. RCA was loaded with engineers and technicians who were hams, so it was only natural that RCA would get the contract to design the radios that would be used by the astronauts while walking on the moon.

Jack Yanosov's project was to design, develop and produce working models of two AM VHF transmitters for the Apollo 11 flight, operating on 259.7 and 296.8 MHz. They had to be lightweight, use solid-state components, consume minimal power, and they had to be small. They worked flawlessly.



Jack Yanosov-KN2KEF, testing the equipment

His transmitters would become part of the 6.5 pound extravehicular communications system. This unit was mounted in the top of the backpack, located just behind the astronaut's head.

Each unit consisted of a VHF transceiver in each astronaut's backpack. Each one measures 14 by 6 by 11/4 inches and weighs only 6.5 pounds. It contained two AM receivers, two AM transmitters, either an FM transmitter or an FM receiver, plus telemetry instrumentation to transmit astronaut biomedical data and spacesuit system status. All of this was fed over the VHF link to the Lunar Module for uplink via UHF S-band microwave back to earth. The astronauts could talk to each other directly or through the Lunar Module for redundancy.

Jack's AM radios were jettisoned to lessen the weight for take-off from the moon after each mission. They are still lying there today. It is believed that if the batteries were replaced, they should start working again, just as good as new.

H.R. 555 Amateur Radio Parity Act Stalls in Senate

David A Woolweaver, K5RAV
ARRL West Gulf Division Director

Just 10 days after being introduced, the 2017 Amateur Radio Parity Act legislation, H.R. 555, passed the U.S. House of Representatives on unanimous consent under a suspension of House rules. The bill's language is identical to that of the 2015 H.R. 1301, which won House approval late last summer after attracting 126 co-sponsors, but failed to clear the U.S. Senate.

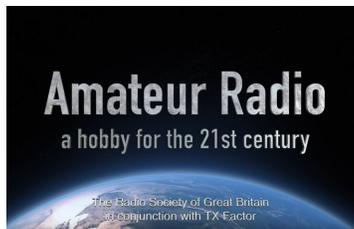
The new bill, again sponsored by Rep. Adam Kinzinger (R-IL), was introduced on January 13 with initial co-sponsorship by Rep. Joe Courtney (D-CT) and Rep. Greg Walden, W7EQI (R-OR), who chairs the influential House Committee on Energy and Commerce.

The bill is now stalled again in the Senate due to the actions of Senator Bill Nelson (D-FL) and HOA organizations in Florida. No movement is expected in the near future. The ultimate fate of the bill remains unknown at this time.



Amateur Radio a hobby for the 21st Century

Information Courtesy of KF5YMF



Here's a good video promoting our hobby, which you can watch on YouTube at:
https://www.youtube.com/watch?v=8x6x_6mDVIQ

FROM THE EDITOR'S DESK



Rick Murray, K6WXA

Those of you receiving this issue of the newsletter are getting it several days earlier than would be normally expected. This is due to my preparation for my departure to W6-Land for a couple of weeks and I want to get this issue out before stepping out the door.

Hopefully I'll arrive at my destination early enough to visit the Field Day site of the Palos Verdes Amateur Radio Club - K6PV - and get a chance to sit behind a microphone and make a few contacts, as well as get a few pictures to share with you all. It'll be 'old home week' for me as the PVARC was the previous radio club I was in prior to coming to Texas.

You can visit their website at:

<http://n6rpv.net/pvarc/>

For the CTARC Board Members, there is a board meeting coming up on Tuesday, June 27th, at 7:00 PM at Fry's Restaurant, located at 802 South Main Street in Belton. I won't be available to attend or send out my usual reminder email to you. If for any reason our club Secretary is unable to attend, someone needs to be detailed to take notes.

