

**The Central Texas Amateur Radio Club
meets the first Tuesday of each month at 7:00 PM at the
Bell County Communications Center, 708 West Avenue O, in Belton**

Terry's Telegram...

Terry Evans, KF5OHR

Sunday, April 16th is Easter. Most holidays celebrate an aspect or feature of the faith they represent, but Easter is a difficult holiday because it is a "moveable feast" referring to the fact that Easter falls on a different day each year. It is always on a Sunday, but how do they determine which Sunday? There are two important rules for determining the date of Easter; Easter is usually the first Sunday after the first full moon, after the vernal equinox, but even this has been disputed over the centuries.

One of the important symbols of Easter has always been the Easter Egg. Eggs are an important symbol of fertility for obvious reasons, but they also resemble a sealed tomb which new life bursts forth from. Decorating hard-boiled eggs is a common practice in many cultures, but how did it become so important for the eggs to be hard-boiled?

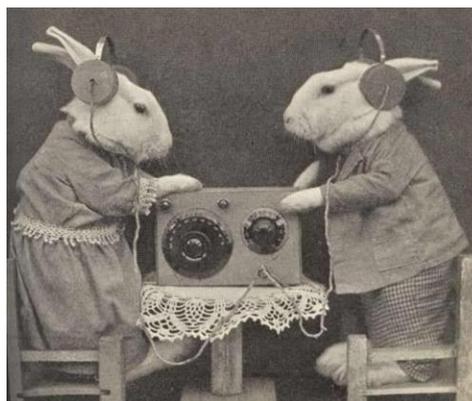
There is actually a very practical reason for that. Easter is preceded by Lent. The Lenten season is a time of sacrifice and atonement, and many believe that they should give up rich foods during this time, including eggs. Unfortunately, hens do not observe Lent and continue laying eggs like they do the rest of the year. Rather than allow this food source to be wasted, the eggs are boiled for Easter Eggs so that they can be enjoyed later. It was then a pretty small transition from hard-boiled eggs to chocolate eggs or colored plastic eggs filled with candy.

Then there's the Easter Bunny. In many ways, the Easter Bunny is like St. Nicholas at Christmas. It is the Easter Bunny's job to distribute the Easter Eggs, and candy on Easter morning. The rabbit with its large clutch of kits born in the springtime is another universal symbol of fertility. Once chocolatiers developed the art of molding chocolate Easter Eggs, it only needed a small refinement of the art to create chocolate Bunnies.

And as any over-sugared toddler can tell you, the ears are the tastiest part of any Chocolate Easter Bunny.

So boil up some chocolate Easter eggs, hop into your bunny suit, and join us at our next monthly meeting which will be on Tuesday, April 4th, at 7:00 PM at the Bell County Communications Center.

73 de Terry - KF5OHR





"Countdown for blastoff. X minus five, minus four, minus three, minus two, X minus one, fire. From the far horizons of the unknown come transcribed tales of new dimensions in time and space. These are stories of the future. Adventures in which you'll live, in a million could-be years, on a thousand may-be worlds. The National Broadcasting Company presents X--- Minus--- One."



X Minus One aired on NBC from 24 April 1955 until 9 January 1958 for a total of 124 episodes. The show was an extension of *Dimension X* which aired on NBC from 1950-51. The stories are unique and many of them later inspired episodes of *Star Trek*, *Twilight Zone* and others.

These tales of science fiction told through the medium of radio, kick start the imaginative juices and take you to places you've never gone before. The only bad thing about this show is when you realize you have listened to all of the episodes.

You can tune-in again to these tales of the future, as told in the past, by visiting: https://archive.org/details/OTRR_X_Minus_One_Singles



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!

April NCS & Back-Up NCS Schedule

April 6th:	April 13th:
Net Control: KE5ISN	AD5SK
Back-Up: AD5SK	KG6FUJ
April 20th:	April 27th:
Net Control: KG6FUJ	K6WXA
Back-Up: K6WXA	W5VEX



CCRA Swapmeet

The Copperas Cove Repeater Association will hold their annual swapmeet on Saturday, April 1st from 8:00 AM to Noon at the Copperas Cove City Park. The park is located on West Avenue B / FM 1113, off of Hwy 190, in Copperas Cove. Talk-In frequency is 147.260(+) PL 88.5 and call for K5CRA.



AM Rally

If you don't know about full-carrier amplitude modulation (AM) or have never used it on the air, you'll get the chance during the AM Rally on the HF bands between 160 and 10 meters (except 30, 17, and 12 meters) plus 6 meters.

The AM Rally begins on Saturday, April 1 at 0000 UTC (Friday, March 31, in US time zones) and concludes at 0000 UTC on Monday, April 3. It's open to all radio amateurs capable of transmitting full-carrier AM.

For complete AM Rally details, contact information, award categories, logging, and tips on how to get the most out of your station equipment in AM mode, visit: <http://www.amrally.com/>



Skywarn Training



Williamson County (*Basic & Advanced Spotter Training*) Saturday, April 8th, 8:30 AM - 12:00 PM at the Public Safety Operations Training Center, 3500 DB Wood Road, in Georgetown.



Rookie Roundup

This event runs from 1800 UTC to 2359 UTC, Sunday, April 17th. This six-hour event is aimed at amateurs who have been licensed for 3 years or less. Rookies work everybody; non-rookies work only rookies. For further info on this, visit: <http://www.arrl.org/rookie-roundup>

International Marconi Day

International Marconi Day is a 24 hour Amateur Radio event held annually to celebrate the birth of Guglielmo Marconi on April 25th, 1874. "IMD" is held each year on a Saturday close to Marconi's birthday, with this year's event being held on April 22nd.

The event is not a contest, but rather an opportunity for amateurs around the world to make point-to-point contact with more than 50 stations around the world which are being set up at various historic sites with links to the inventors work.

Several special event stations will take to the air April 22nd, from 0000 UTC to 2359 UTC, to commemorate the 2017 International Marconi Day.

This event offers a thrilling throwback to the days whenever a connected world was but a bold dream.

More information on this event can be found at: <http://gx4crc.com/gb4imd/>



Coryell County Joint Comm Group Meeting

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



Historic Ham QSL

Howland Island, a desolate and forgotten patch of Pacific Ocean, located about 1,600 miles southwest of Hawaii. A half-mile wide by one and a half miles long. The island's sole inhabitants are birds, lizards, crabs, and their relatives.



In 1937 and 1938 there was a Ham, Kenny, who worked for the U.S. Department of the Interior and used the callsign K6BAZ. He was probably connected with the construction and operation of the airstrip there. He ran 70 watts on 20 meters CW, using a V-beam antenna. Kenny sent this QSL card to W8NKU, for a contact between them on April 9, 1938. It isn't often you hear Howland Island anymore.

"Wireless telegraphy is all very well but I'd rather send a message by a boy on a pony!"
- Lord Kelvin (1824-1907)



VE Testing

CTARC will no longer be able to administer VE testing at the Bell County Communications Center. Instead, test sessions will be offered on the first Saturday of each month, at Temple Fire Station #8, located at 7268 Airport Road, in Temple. These sessions will be held *only* with advance notice.

Interested persons should contact either Gerald Richmond-N5ZXJ at: gerald.richmond@gmail.com or Jan Gregg-W5GNK at: jang5@yahoo.com

SSB was invented to provide a use for your receiver's clarifier control. Adjustment of this control causes voices to vary between the sound of Alvin the Chipmunk and a 33 rpm record played at 22 rpm. Proper adjustment will be achieved at the exact moment the transmitting station leaves the air.
Popular Communications - April, 1987

The Psalm of Radio

Radio News - April, 1927

Radio is my hobby: I shall want no other.
It maketh me to stay home at night.
It leadeth me into much trouble.
It draweth on my purse.
I go into the paths of debt for its sake.
Yea, though I understand it perfectly, it will not oscillate.
Its concerts and speeches, they comfort me, yet it will not work in the presence of my friends.
I anoint the coils with shellac:
But the tube spilleth over.
Surely the bug will follow me all the days of my life,
And I will dwell in the house of a radio fan forever.



Radio Shack files Bankruptcy - Again

Once the go-to store for radio amateurs, electronics tinkerers, and shortwave listeners, RadioShack has filed for Chapter 11 bankruptcy for the second time in 2 years. Now down to 1,500 stores, RadioShack once boasted more than 5,000 stores nationwide.

RadioShack stores and dealer locations across the country are still currently open for business. However, its parent Company will be closing approximately 200 more stores and evaluating options on the remaining 1,300.



Memorial Station W1MGY

Marking the 105th anniversary of the *RMS Titanic* disaster, the Titanic Marconi Memorial Radio Association of Cape Cod — W1MGY, will be active April 13, 14 and 15 from the Cape Cod National Seashore in Massachusetts to honor the approximately 1,500 passengers and crew who died when the *Titanic* struck an iceberg and sank during the early morning hours of April 15th, 1912.

W1MGY will set up stations to operate on (+/-) 3.950 MHz, 7.270 MHz, and 14.285 MHz. The stations will operate until 05:27 UTC, April 15th - the time of the last transmission heard from the *Titanic*. This will be followed by a 20 minute silent period - marking the time from *Titanic's* last heard transmission, to her sinking. W1MGY will then sign-off with a memorial message.

Of additional note, "MGY" were the call letters of the *RMS Titanic*. More info is at: <http://www.arrl.org/news/cape-cod-national-seashore-to-host-w1mg-y-titanic-memorial-special-event>

Toronto Station CFCA in the Kitchen Sink

Radio Age - April, 1927

A phenomenon in radio reception has been recently noticed in a florist shop underneath Toronto's broadcasting station CFCA. It appears for some unknown reason everything that is broadcast or finds its way into the microphone while the radio transmitter is on, can be heard quite clearly through the faucets in the florist shop with the metal sink acting as a loud speaker.

A number of telephone and radio engineers have investigated the possible connections between the broadcasting station and the hot and cold water taps in the shop, but nothing has been found which would account for this peculiar effect.

Music is received with much more volume than speech, although the latter can be heard at a distance of three feet when the speaker is talking with less than average force into the microphone.

The operator of CFCA, reports one evening while a concert was being broadcast by remote control, the music could be heard very plainly outside the locked door of the shop, some ten feet away.

The owner of the shop, when asked as to whether the continuous flow of music was irksome, replied he did not find it so, and often came to the shop at night to hear a good concert. He has listened in this manner to church services broadcast through CFCA.

Reports from England tell of a similar case in which a metal lamp pole near station 2LO in London, acts in a like manner and daily brings crowds about it.



Pirate Advisory

Someone has been pirating the callsign **TZ6BB** of late on 20 Meters. The license holder - EA4BB, reports that his last use of this callsign while he was living in Mali, was more than 2 years ago.



We Need Your Help

Do you enjoy checking-in to the Central Texas Amateur Radio Net on Thursday nights? If so, this job may be for you. We are in need of an amateur radio operator to be a net control station.

You would be scheduled as the backup one week, then net control the following week. If you are interested in this position, please contact Kenneth Watkins-KE5ISN, at: ke5isn@aol.com and you will be sent the net script and placed in the rotation.



"He says to QRT until the Lone Ranger is off!"



T2AQ is active on SSB and **T2QR** on CW, from Tuvalu until 6 April. QSL via SP7DQR.

Special Event Station **N4T** will be active from the Dry Tortugas, FL., 21-24 April. QSL via NE4LS.

KZ3AB will be active from Cayman Islands, 29 April - 6 May as **ZF2AB**. QSL via WA3EOP.

W6HB will be active from Rarotonga Island 28 April - 13 May as **E51DLD**. QSL via his home call.

IK2GZU is active from Tanzania until 12 April as **5H3MB**. QSL via his home call.

JA1XGI will be active from Majuro Atoll, 5 - 13 April as **V73XG**. QSL via his home call.

G8AFC is active on Mauritius Island, until 5 April as **3B8HE**. QSL via his home call.

J16IHG, **JA7WFT** & **JM1LRA** will be active from Koror Island, Palau, 13 - 20 April as **T88IH**, **T88FT** and **T88TA**. QSL each via their home call.

VK5CE will be active from Bruny Island, 22 - 23 April, signing **stroke 7**. QSL via his home call.

EA5BY is active on Guam Island, until 10 April as **KH2BY**. QSL via his home call.

A group will be active from Botswana, 25 April - 6 May as **A25UK**. QSL via M0OXO.

A group will be active from the Isle of Man, 15-22 April as **GT4BRS**. QSL via DJ6OI.

K3NK and **W3HNK** will be active from Providenciales Island, 11 - 18 April each signing **stroke VP5**. QSL each via W3HNK.

JA1XGI will be active from New Britain Island, 6 - 12 April as **P29VXG**. QSL via his home call.

A group will be active from Palestine during the second half of April as **E44WE**. QSL via SQ9FIH.

VE7BV will be active from Guatemala 21 April - 15 May as **TG9BBV**. QSL via his home call.

Special Event Station **II0CXX** is active on 7165 KHz in observance of the 30th Anniversary of Arthur A. Collins's death. The station will run until May 31st. QSL via IK0IXI.

CT1FFY will be active from Sal Island, 18 - 25 April as **D4T**. QSL via his home call.

A group will be active from Mahe Island, 6 - 18 April as **S79Z**. QSL via OM2FY.

A group will be active from Houat Island, 8 - 14 April as **TM2H**. QSL via ON4ZD.

J5B and **J5W** will be active from Rubane Island, Bijagos Archipelago, 7 - 15 April. QSL each via EA3BT.

VE1KG is active from Saint Martin Island, until 30 April signing **stroke FS**. QSL via his home call.

The *U.S.S. Hornet* will be on the air as **NB6GC** to commemorate the 75th anniversary of the Doolittle Raid, on April 18th. QSL via WW6G. More info is at: <http://www.hornet-arc.us/Special-Ops.html>

NL8F is active on Tuvalu Island, until 13 April as **T2TT**. QSL via N7RO.

K7HV is active in Ecuador until 13 April as **HC1HB**. QSL via his home call.

A group will be active from Arakamchechen Island, 7 - 17 April as **R71RRC**. QSL via UA3AKO.

KH6QJ will be active from Kiritimati Island, Eastern Kiribati 11 - 18 April as **T32AZ**. QSL via his home call.

3W3B will be active from Laos 12 - 26 April as **XW4XR**. QSL via E21EIC.

J68HZ will be active from St. Lucia Island, 1 - 8 April. QSL via K9HZ.



Emergency Management Volunteer Program



The City of Copperas Cove is seeking applicants to fill volunteer positions for a newly created Emergency Management Volunteer Program. A disaster may quickly overwhelm the available resources of any community, however many people may desire to offer assistance in the community during such an event. Individuals who have been pre-screened and trained in emergency management concepts may be allowed to assist representatives of the City on those occasions as a volunteer.

The purpose of the Emergency Management Volunteer Program is to attract, screen and train a select group of volunteers to assist in appropriate roles in Emergency Management within the City of Copperas Cove. These volunteers would be trained and prepared to support the City before, during and after a disaster.

Minimum Training Requirements / FEMA Certifications to be held at the time of application:

IS-20 Diversity Awareness

IS-35 FEMA Safety Orientation

IS-100 Introduction to ICS

IS-200 ICS for Single Resources and Initial Action Incidents

IS-288 The Role of Voluntary Agencies in Emergency Management

IS-700 National Incident Management Systems (NIMS)

IS-800 National Response Framework

Other training and certifications required within six months:

An active, non-expired, Amateur Radio Operator license issued by the Federal Communications Commission or the ability to acquire a Technician Class or higher license within six months of being accepted into the communications functional assignment.

IS-230 Fundamentals of Emergency Management

IS-775 EOC Management and Operations

IS-802 Emergency Support Functions (ESF) #2 Communications

Additional training and certifications required within twelve months:

IS-909 Community Preparedness Implementing Simple Activities for Everyone

Applications are available at the following locations:

Fire Department, 415 S. Main Street

City Hall, 914 S. Main Street, Suite E

or on the City website. Position vacancies for this program will be advertised through March 25th. Completed applications must be submitted to Human Resources, located at 914 S. Main Street, Suite E by April 4th, 2017 at 5:00 pm, for consideration.

For further information please contact Gary Young-WD5DW, Deputy Fire Chief/Emergency Management Coordinator, at: gyoung@copperascovetx.gov or (254)547-2514.

A complete listing of all of FEMA's free online courses can be found at: <https://training.fema.gov/is/crslist.aspx?all=true> If you would like to fill out an application in advance, it can be found at:

http://www.copperascovetx.gov/files/forms/human_resources/Volunteer_App.pdf

A 2-Element Dual-Rectangle Beam for 70cm

Editor's Introduction... This antenna design is by John E. Davis, a graduate of Ohio State University, where he obtained a PhD in theoretical nuclear physics and who is now employed at the Harvard - Smithsonian Center for Astrophysics. Despite an obvious connection with amateur radio, I cannot find any reference to him as holding an amateur radio license, including a search through the FCC's ULS database.

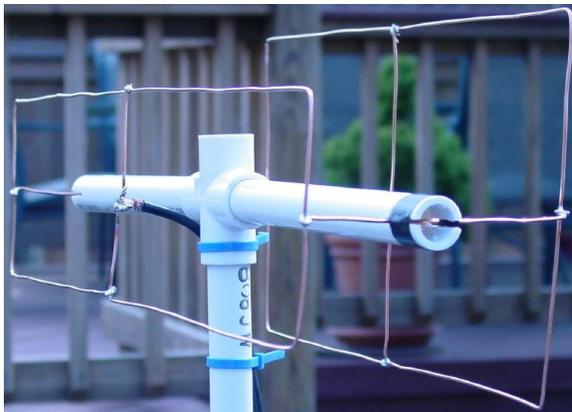
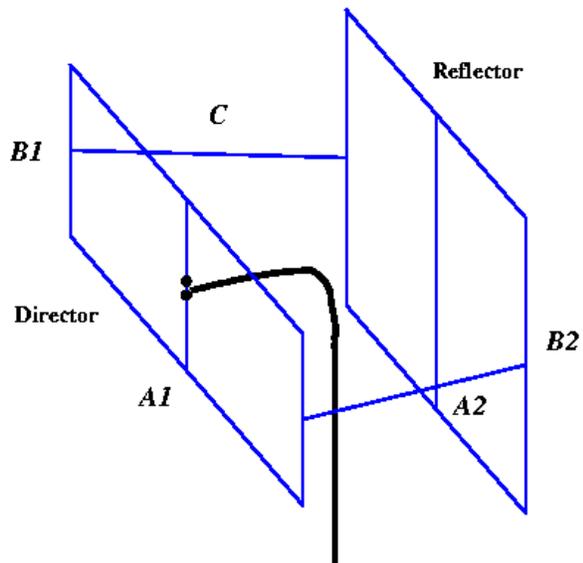
The antenna described here is a direct-connect dual-rectangle beam for use on 70 cm between 440 and 450 MHz. The antenna is made from #14 AWG copper wire, supported by a PVC frame. Both dual-rectangular elements are electrically connected together, so strictly speaking, the antenna is a single monolithic structure. It was designed this way to simplify and minimize the support structure for the antenna.

The resulting geometric parameters in the diagram to the right, are:

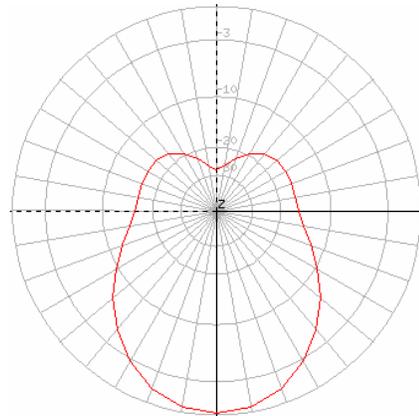
- A1** = 18-5/16 inches
- A2** = 14-1/8 inches
- B1** = 3-15/16 inches
- B2** = 6-3/4 inches
- C** = 6 inches

With the resultant director - reflector separation distance of 5-5/8 inches.

Note that the coax is directly connected to the antenna with no choke nor balun. This antenna was designed taking feedline radiation into account.



Close up view after assembly by the author



Radiation Pattern Result

This antenna was optimized to have a front-to-back ratio in excess of 20 dBi and a VSWR of less than 1.3 from 440 to 450 MHz when used with a 50 ohm feedline.

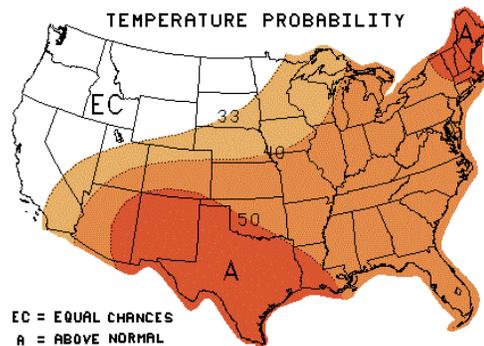
You can visit: <http://www.jedsoft.org/fun/antennas/dualrect2/dualrect2.html> for more information about this antenna, its set-up, design and testing.



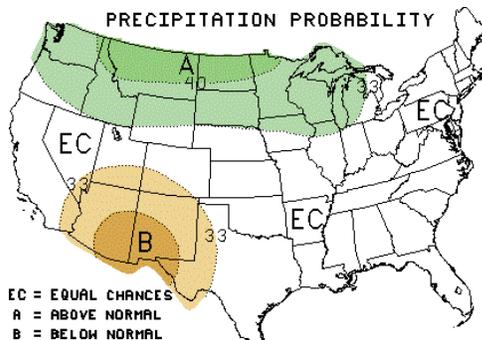
Spring Forecast Outlook

The Spring Forecast Outlook is calling for continued warmer-than-average temperatures across the southern tier of the nation for spring. This warmth is expected to stay parked across the nation's midsection and the Deep South, but also spread through the Northeast and mid-Atlantic states. However, an individual cold front or an upper ridge of high pressure could lead to a brief period of colder or warmer weather, respectively.

Any chance for cooler-than-average temperatures is expected to be limited to parts of the northwest United States. Below-average temperatures will persist in the Northwest where cold and snowy conditions have dominated during winter. This type of weather pattern is consistent with the weak La Niña conditions experienced this winter.



Near normal precipitation is expected across the continental U.S. during the outlook period except across portions of the Southern Plains and Southeast where below normal precipitation trends will continue into mid-spring before normal conditions return. While NOAA's Climate Prediction Center is forecasting chances for an average Spring for much of the nation precipitation wise, some analysts are calling for the potential of an active severe weather season.

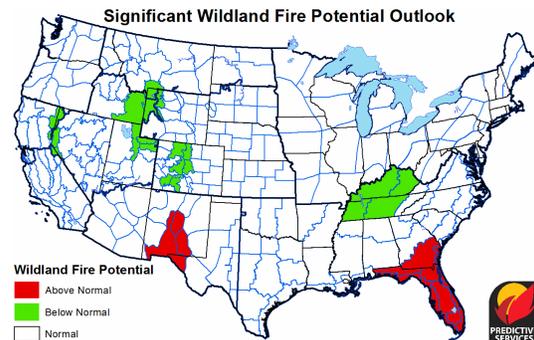


A northern jet stream which brings cold air to the upper levels of atmosphere, may be slow to retreat, which is typical of a weak La Niña season. If it is slow to retreat, there will be more explosive systems with more severe weather, and that the analysts say, is a good possibility. Data indicates that rainfall activity will increase for a large area in the southern states.

The Fire Weather Outlook is calling for a typical transition of fire season activity as expected this spring beginning with the southern tier of the country. Fire activity will increase across portions of the southern plains and along the Atlantic Coast from the Carolinas south through Florida where the heavy loading of dry fuels coupled with warmer and drier than normal conditions is expected to create a potential for above normal fire activity. The increase in fire activity will be most noticed during high wind and low humidity weather events brought on by the seasonal transition from winter to spring.

Entering the latter periods of the outlook, normal fire season activity is expected across a majority of the region, though there are areas within the region where an elevated potential for fire activity exists.

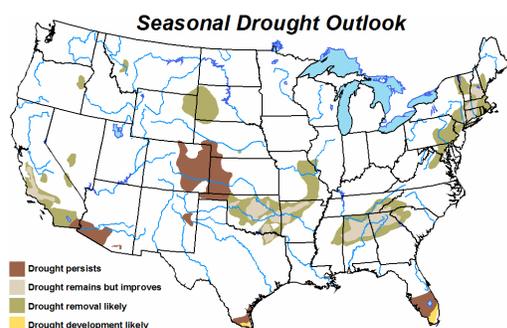
To aid in combating wildfires, Austin-Bergstrom International Airport is now host to the first Airtanker base in Central Texas, which will help combat wildfires in the future. The Austin Airtanker Base is capable of preparing large air tankers to drop fire retardant during wildfire events in Central Texas and the surrounding areas. The base will be manned by trained and qualified Texas A&M Forest Service, the Austin Fire Department and USDA Forest Service firefighting personnel during times of high fire danger. This will allow for faster set up and mobilization of aviation resources, especially along the I-35 corridor. The tanker base is another step in what fire officials say is a marathon of work necessary to properly protect the region.



Another, federally funded Airtanker base is housed in Abilene, but even a plane loaded there could take a significant amount of time to respond to a Central Texas fire. Add to that, earlier this year, a new threat was detected while trying to battle a wildfire with aviation resources in Erath County - two Single Engine Air Tankers responding to the wildfire were grounded due to the presence of a drone in the wildfire perimeter. The first airtanker had already dropped retardant on the fire and the second airtanker was lined up to follow and complete the drop when the drone appeared directly in their path.

While drones are fun to fly, they pose a direct threat to pilot safety on wildfires. If you fly, we can't. If you see someone using a drone in the area of a wildfire, please contact your local law enforcement department.

The current Drought Outlook indicates that the drought is continuing to improve. A majority of the ongoing drought areas improved throughout the continental U.S. with the coverage of severe to exceptional drought over the continental U.S. being at its lowest since October 2010. Prospects for broad scale improvement diminish across the central and southern high Plains since their climatology becomes wetter later in the spring and summer. Therefore, persistence is most likely for the long-term drought area over the central and southern high Plains.



The moderate drought area along the middle Texas Gulf Coast is expected to be short-lived, while persistence or a slight expansion of drought is favored across the lower Rio Grande Valley. Rains over southern Texas allowed for improvements to moderate drought and abnormally dry conditions. In northeast Texas and southern Louisiana, dry conditions allowed for the expansion of abnormally dry conditions as

well as a slight expansion of moderate and severe drought along the Texas and Oklahoma borders.



Merle Taylor - VE1VCI *Maven of Morse Code*

Merle Taylor of Lochaber, Nova Scotia, was a Manitoba farm girl, who joined the Royal Canadian Air Force in 1942. The list of careers available to women included motor transit driver, medical assistant, meteorologist, cook, or a wireless operator. Merle applied for the wireless operator position and was given an aptitude test; the main requirement being the ability to take Morse Code. "The room was filled with men and smoke," Merle recalls. One part of the test involved listening to two separate Morse Code signals and detecting whether they were the same, or different. Merle passed the test and was accepted as a wireless operator.

After her training, Merle was sent to the Number 1 Wireless School in Montreal. There she learned how to use Morse Code, how to signal using lights and flags, as well as other theoretical classes such as the components of a radio. Eighteen words per minute of Morse Code was required to pass the course, and Merle was able to send twenty-eight words per minute and receive twenty-two words per minute. There were fifty-two students in her class, and only twenty-seven of them passed. Merle came in third in the class.

She proved to be such a whiz at Morse Code that she was assigned to Number 4 Service Flight Training School in Saskatoon, to instruct the air crews. Merle's



students were in her class for six weeks at a time. They were expected to learn how to send five words a minute in Morse Code – a far cry from Merle's twenty-three words per minute!

On her twentieth birthday in August 1943, she was married to Fred Taylor. In October, Merle discovered that she was pregnant. The military didn't allow pregnant women to serve, so the air force informed her on December 8, 1943 that her services were no longer required.



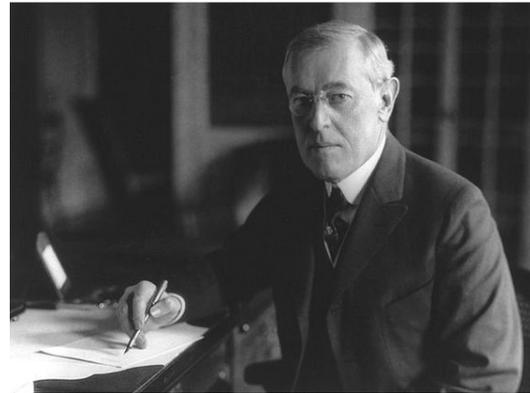
Although Merle's time in the air force was short, it was one of the highlights of her long, eventful life. She remains a faithful Royal Canadian Legion member. One lasting result of her air force training is her ongoing love of Morse Code. In 1986 Merle passed the exams necessary to become a ham radio operator – receiving a mark of 100 percent on the Morse Code test. She set up her radio system in her basement and to this day, at age ninety-three, she still communicates with people around the world, both through voice and Morse Code. But it's the Morse Code she claims, that keeps her mind sharp.



The Declaration of War

The radio spark flashing through the ether has long since become recognized an inseparable corollary to all epochal events. That this highest of scientific arts should be the forerunner of a mighty nation going to war in the modern was, therefore, to be expected, but the incidents of its employment have been found worthy of record for their dramatic events alone.

It was in the afternoon of April 6th [1917] that war was declared. A few minutes after noon of that day the joint resolution of the House and Senate was signed by the Vice-President and but one formality remained to make the United States an ally of the Entente in the world war of democracy against autocracy. The document awaited President Wilson's signature, only two minutes; precisely at 1:13 his pen scratched across the parchment.



President Woodrow Wilson

Instantly, Lieutenant Commander Byron McCandless at the window signaled across the street to the Navy Department, and while the ink was still wet on the historic war resolution, orders were being flashed by wireless to the ships at sea; at the same moment all the countries of the earth were notified of this government's action.

Thus between ticks of a watch Uncle Sam's widely distributed fighting units were consolidated in purpose and the silent machinery of defense set in motion.

The wartime employment of this humanitarian agency has been many times described, but never, it seems, with the force that this incident brings home, both in portent of message and the feeling that it is our American voice - yours and mine - that spoke in the ether-waved message.



Lieutenant Commander Byron McCandless

The mistaken idea which seems to be held in foreign quarters that America's young manhood will reluctantly respond to the call to the colors is due for an immediate upset. It is a national characteristic to wait for the "something doing" period before stirring to action, but once we know that it is our duty to enlist, the citizen training army will be enrolled almost literally overnight.

Editor's added comments... Byron McCandless had some interesting relatives. His son, Bruce McCandless, rose to the rank of Rear Admiral and earned the Medal of Honor in World War II. His grandson, Bruce McCandless, II, was a NASA astronaut who made the first un-tethered spacewalk during the *Challenger* mission STS-41B, in 1984.