



The Ragchew W5NFL Newsletter



The NFL Amateur Radio Club

Meets the second Saturday of each month at 12:00 noon lunch and 1:00 PM Meeting at the NFLARC clubhouse, near Dobins Rd & CR1020 Corsicana



- Franklin - 2M (146.960 - with a tone of 146.2)
- Hillsboro - 2M (146.780 - with a tone of 123.0)
- Fairfield * 2M (145.110 * with a tone of 146.2)
- Lindale * 2M (145.600 simplex with a tone of 146.2)
- Mexia * 2M (145.39 - with a tone of 146.2)
- Echolink * KD5OXM-L

- We can be Monitored via
 - <http://nflarc.org/radio.html>
 - <http://www.radioreference.com>
 - Look for
 - “Central Texas Amateur Repeaters”
 - “Navarro, Freestone, Limestone and Leon Counties Repeaters”

License Training Class / Testing

TBA

Local News & Events

Severe weather outlook for North Texas.
12-26-2015

The DFW area is in the enhanced risk for severe thunderstorm development meaning our potential risk is higher for damaging winds, flash flooding, and tornadoes.
[#wfaaweather](#)



- **The Linked Repeaters at**
 - Corsicana - 2M (145.290 + with a tone of 146.2)
 - Corsicana - 440 (442.925 - with a tone of 146.2)
 - Buffalo - 2M (147.280 + with a tone of 146.2)


NFLARC
Published by WSNFL at 2:30 pm 12-26-2015

Tornado and flood watches are in effect, check your area



9 people reached

Prelim Tornado reports for 12/26/2015 Tornado Event
Reports as of 9:45 PM on 12/26/2015



= tornado report
Note: these are reports! and NOT tornado counts! Preliminary tornado counts will be determined after official NWS surveys are conducted over the next several days, weather pending!!!


December Tornado Events

December 14, 1971	December 29, 2006	December 26, 2015
21 confirmed tornadoes	22 confirmed tornadoes	9 confirmed tornadoes
• 2 nd most # of tornadoes in 1 day across N/C TX (year)	• MOST tornadoes in 1 day across N/C TX (year)	• Deadliest Dec. tornado event in N/C TX (11 deaths)
• 2 F0's, 13 F1's, 6 F2's	• 14 F0's, 5 F1's, 2 F2's	• 5 E0's, 2 E2's, 1 EF3, 1 EF4

December Tornado Climatology (since 1950)
10 other years with December tornadoes
Sunnyvale/Garland/Rowlett EF4 is the strongest/deadliest December tornado in N/C TX
1st confirmed December EF4 in Dallas Co.; 1st confirmed December EF2 in Collin Co.
Note this info is pending until official NCEC publications

NFLARC
Published by WSNFL at 4:30 pm 12-26-2015

More tornado warnings til 5:00



3 people reached



Picture of the strong rotation in the Ellis County tornado warned storm. This picture was taken in Italy.

Hill County Emergency Management
11 hrs

Tornado on the ground near China Spring headed toward the southern part of Hill County. Stay alert. Tornado 9 miles east of West headed west

The Tornado that struck Garland has been given a preliminary rating of EF-4. This is only the second EF4+ tornado since

1950 to impact Dallas County. This tornado is also the strongest on record for December in Texas.

11+ dead from Saturday's North Texas tornadoes

2 dead in Copeville, 1 dead in Blue Ridge in Collin County. Also 5 dead in Garland and growing. Total of 11+ deaths from Saturday's North Texas tornadoes

TORNADO AFTERMATH from Ellis County.

Multiple injuries but no fatalities after possible EF3 touched down near Ovilla.



Van from Ovilla Church of the Nazarene tossed into a field when the tornado touched down



Utility poles, electric wires down on Hampton Rd. in Glenn Heights.



Photo of a tornado taken from the Hilton Hotel on Lake Ray Hubbard..... 4 killed in Garland from tornado



Harvest of Praise Church in Red Oak destroyed by tornado.

FYI

Ellis co just installed fusion repeater on their 440 repeater in Midlothian

N5iuw
441.650 +
110.9 tone



The club is happy to announce a new **Yaesu Fusion Repeater** was able to be installed on Saturday, Dec 19! It is currently operating off a temporary antenna until we are able to get lower wind conditions to install a better antenna to improve the coverage.

The frequency is 441.650 with a positive offset and a PL of 110.9.

The repeater operates in a full auto mod, meaning it can be used for analog voice communication in addition to digital. Any station that does not have a digital radio might consider turning on the PL decode for the repeater which will cause the radio not to break squelch when digital traffic is going on. The Tone Decode is also 110.9.

Visitors



Going up!



Admiring their work

NFLARC Weather Nets



NFLARC Weather Net Frequencies:

- Corsicana - 2M (145.290 + with a tone of 146.2)
- Corsicana - 440 (442.925 + with a tone of 146.2)
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- Franklin - 2M (146.960 - with a tone of 146.2)
- Hillsboro - 2M (146.780 - with a tone of 123.0)
- Fairfield - 2M (145.110 * with a tone of 146.2)
- Lindale - 2M (145.600 simplex with a tone of 146.2)
- Mexia - 2M (145.39 - with a tone of 146.2)
- Simplex Frequency - 146.500 MHz
- Echolink - KD5OXM-L

SKYWARN™ Spotter Training Schedule 2016!

<http://www.srh.noaa.gov/fwd/skywarnsch.php?file=sptrsch>

DATE	COUNTY	CITY	LOCATION	TIME
Monday Jan 4	Falls	Marlin	Falls County Courthouse	7:00-9:00PM
Thursday Jan 7	Limestone	Groesbeck	Limestone County Courthouse	7:00-9:00PM
Thursday Jan 7	Freestone	Groesbeck	Limestone County Courthouse	7:00-9:00PM
Monday Jan 11	Leon	Centerville	Annex 2 Great Room (3rd Floor)	7:00-9:00PM
Monday Jan 11	Robertson	Centerville	Annex 2 Great Room (3rd Floor)	7:00-9:00PM
Tuesday Jan 12	Anderson	Palestine	Courthouse Annex	6:00-8:00 PM
Thursday Jan 14	Montague	Montague	Montague Courthouse Annex	6:30-9:00PM
Monday Jan 18	Van Zandt	Canton	Van Zandt County Regional Airport	7:00-9:00 PM
Tuesday Jan 19	Stephens	Breckenridge	Texas State Technical College	7:00-9:00PM
Thursday Jan 21	Erath	Stephenville	Science Building - Room 102 Tarleton State University	6:30-8:30PM
Saturday Jan 23	Collin	McKinney	Collin College - Campus Conference	8:30AM-12 Noon(basic) 1:00-

			Center	4:30PM(adv)
Monday Jan 25	Milam	Cameron	Cameron VFD	7:00-9:00PM
Tuesday Jan 26	Lamar	Paris	Paris Jr. High School Auditorium	7:00-9:00PM
Thursday Jan 28	Coryell	Copperas Cove	Copperas Cove Police Department Community Room	7:00-9:00PM
Saturday Jan 30	Tarrant	Fort Worth	South Hills High School	8:30AM-12 Noon(basic) 1:00-4:30PM(adv)
Monday Feb 1	Hill	Hillsboro	The Church on the Hill	7:00-9:00PM
Tuesday Feb 2	Johnson	Keene	Mabee Center-Southwestern Adventist University	7:00-9:00PM
Thursday Feb 4	Fannin	Bonham	Bonham High School Cafeteria	7:00-9:00PM
Saturday Feb 6	McLennan	Waco	Emergency Services Education Center	9AM-12 Noon(basic) 1:00-4:30PM(adv)
Monday Feb 8	Comanche	Comanche	Comanche Community Center	7:00-9:00PM
Monday Feb 8	Hamilton	Comanche	Comanche Community Center	7:00-9:00PM
Tuesday Feb 9	Eastland	Eastland	Eastland Fire Department	7:00-9:00PM
Thursday Feb 11	Grayson	Denison	Grayson College Center for Workplace Learning Auditorium	6:00-9:00PM
Saturday Feb 13	Bell	Belton	Belton ISD Administration (Cafeteria)	9AM-12 Noon(basic) 1:00-4:30PM(adv)
Tuesday Feb 16	Ellis	Waxahachie	Waxahachie High School Auditorium	7:00-9:00PM
Thursday Feb 18	Wise	Decatur	Wise County Law Enforcement Center Courtroom	7:00-9:00PM
Saturday Feb 20	Dallas	Garland	Granville Arts Center	9:00AM-12 Noon(basic) 1:30-4:00PM(adv)
Monday Feb 22	Hood	Granbury	Driftwood Cinema	7:00-9:00PM
Monday Feb 22	Somervell	Granbury	Driftwood Cinema	7:00-9:00PM
Tuesday Feb 23	Cooke	Gainesville	North Central Texas College Center for the Performing Arts	7:00-9:00PM
Thursday Feb 25	Hunt	Greenville	F. Warren Civic Center	6:30-8:30PM
Saturday	Denton	Denton	Denton Public	9:00AM-12

Feb 27			Safety Training Center	Noon(basic) 1:00-4:30PM(adv)
Monday Feb 29	Kaufman	Terrell	Terrel City Service Center	7:00-9:00PM
Tuesday Mar 1	Lampasas	Goldthwaite	Mills County Courthouse	7:00-9:00PM
Tuesday Mar 1	Mills	Goldthwaite	Mills County Courthouse	7:00-9:00PM
Thursday Mar 3	Palo Pinto	Palo Pinto	Ag-Life Building	6:30-8:30PM
Monday Mar 7	Rains	Emory	AgriLife Community Center	7:00-9:00PM
Tuesday Mar 8	Hopkins	Sulphur Springs	Sulphur Springs City Hall	7:00-9:00PM
Thursday Mar 10	Dallas	Coppell	City Hall	7:00-9:00
Saturday Mar 12	Rockwall	Rockwall	Rockwall County Library	11:00AM-1:00PM
Monday Mar 14	Delta	Cooper	Delta County Civic Center	7:00-9:00PM
Tuesday Mar 15	Jack	Jacksboro	Jacksboro Fire Department	6:30-8:30PM
Thursday Mar 17	Bosque	Meridian	Meridian Senior Center	7:00-9:00PM
Saturday Mar 19	Navarro	Corsicana	The Palace Theater	10:00AM - 3:00PM
Monday Mar 21	Young	Graham	North Central Texas College	7:00-9:00PM
Tuesday Mar 22	Henderson	Chandler	Chandler Community Center	7:00-9:00PM
Thursday Mar 24	Dallas	Carrollton	Carrollton Courts Community Room	7:00-9:00PM
Saturday Mar 26	Tarrant	Mansfield	St. Jude Church 310 Graves St.	9:00AM-Noon
Monday Mar 28	Parker	Weatherford	Mince Auditorium - Weatherford College	7:00-9:00PM
Tuesday Mar 29	Dallas	Irving	Old Irving City Library	7:00-9:00PM

ARES Net



Limestone ARES Group

ARES group for Limestone Co.

List their Coms plan as follows:

- Repeaters
 - Mexia Repeater 145.39 – Primary

- Corsicana Repeater 145.29 – Secondary
- Simplex
 - 146.500 FM Primary
 - 146.550 FM Secondary
 - 147.550 FM Texas State Guard Freq

They will have a weekly net on Tuesday Nights 8PM on simplex for now

World News & Event

German Request More 5 MHz power

A coalition of most of the German Amateur Radio Clubs, the RTA, are pushing for 100 watts output in the new WRC-15 60m allocation

The General Assembly of the World Radio Conference in 2015 in Geneva (WRC-2015) set a maximum effective radiated power in the region of 15 watts EIRP.

However, as some countries already deviate from this limitation the RTA hopes that Germany can have a higher power of 100 W PEP, the same level Dutch radio amateurs have had since 3 December.

DARC in Google English - <http://tinyurl.com/GermanyDARC>

Amateur Radio Kids Day 2016

Kids Day 2016, taking place on Sunday 3rd January 2016, is a fantastic way to introduce young people to the magic of Amateur Radio by getting them on the air!

One Amateur / Ham Radio Club taking part in Kids Day is New Providence Amateur Radio Club who will set up two operating ham radio stations in the DeCorso Community Center, 15 East Fourth St., New Providence, on Sunday, 3rd January 2016. Kids of all ages from Berkeley Heights, New Providence and surrounding communities are invited to participate, and make direct radio contacts with other kids. In the past, the club have made many radio contacts to the eastern United States, as far west as Oklahoma, Colorado and California, and to foreign countries such as Ireland and Australia. This year they expect to make many contacts with stations around the world.

Full Story -

http://www.nj.com/independentpress/index.ssf/2015/12/nj_kids_to_get_radio-active_at.html

German Medium Wave AM Switch-off

An era comes to an end in Germany on 31st December 2015, when the last medium wave transmitters are switched off in Germany

For many lovers of analog radio technology a memorable event, because now the transition to the digital era is

irrevocably accomplished. No more noise and crackle, no more whistling and no volume fluctuations.

Read the Deutschlandfunk story in Google English - <http://tinyurl.com/Medium-Wave-Shutdown>

No 60m operation possible in VK

While the Amateur Service gained a new band at 5 MHz at the World Radiocommunication Conference last November, it won't be available in Australia and many other countries for quite a while.

The **Wireless Institute of Australia** notes that a number of land-mobile and defence licensees have long had primary status in the 5 MHz band.

The **Australian Communications and Media Authority** is aware of the decision made by WRC-15 at Geneva, and expects future discussion on it with the WIA.

Until the ACMA agrees through the Australian Radiofrequency Spectrum Plan or the Licence Condition Determination, no VK radio amateur is allowed to use those frequencies.

There is now only limited access to spot frequencies on 5 MHz by WICEN (emergency communications) and the Amateur Radio New South Wales broadcast, but these are under their land-mobile licences and call signs.

So despite a decision being made at WRC-15, and access possible in some countries to radio amateurs under their domestic rules, no such decision has been made in Australia.

Transmitting by radio amateurs in Australia on 5 MHz is illegal, until the ACMA gives its approval, which may take many years.

W6WBJ Apparent Liability in the amount of \$25,000

WILLIAM F. CROWELL.

Notified William F. Crowell, licensee of station W6WBJ, Diamond Springs, California, of his Apparent Liability in the amount of \$25,000 for intentionally causing interference to other amateur radio operators and transmitting prohibited communication.

Action by: District Director, San Francisco Office, Western Region, Enforcement Bureau.

Adopted: 12/17/2015 by NALF. (DA No. 15-1438).

https://apps.fcc.gov/edocs_public/attachmatch/DA-15-

[1438A1.docx](#)

https://apps.fcc.gov/edocs_public/attachmatch/DA-15-1438A1.pdf

Raspberry Pi Ham Radio Kits

UK Licenced Amateur Radio Operator Jenny List G7CKF, has made available an RF Breakout kit and a Pi-HF direct conversion radio kit for the Raspberry Pi

The breakout kit provides a breakout board to use the Raspberry Pi clock generator as an RF source or simple amateur radio transmitter. The Raspberry Pi has a built-in clock generator, a powerful frequency synthesiser which can generate frequencies up to 250MHz. This is enough to provide a useful RF signal source for experimentation, or given suitable filtering and antennas to allow the Pi to be used as a low-power amateur radio transmitter.

The Pi-HF is primarily for frequencies between 130 kHz and 30 MHz, however it has a bandwidth over 100 MHz and so will also perform at higher frequencies including the 50 MHz (6m) and 70 MHz (4m) amateur bands with reduced performance. It is not a software-defined radio, instead it is a traditional direct conversion radio receiver with software control.

Raspberry Pi RF Breakout Kit (video) -

<http://www.geeky-gadgets.com/raspberry-pi-rf-breakout-kit-video/>

Language Spy - Amateur Radio and Raspberry Pi kits -

<http://shop.languagespy.com/products/rf-breakout-kit-for-the-raspberry-pi>

Jamaica Amateur Radio 75th Anniversary

To celebrate the 75th anniversary of the founding of the Jamaica Amateur Radio Association, a special prefix was issued to recognize this historic milestone in amateur radio in Jamaica.

QSO's will only be valid for the period from December 1, 2015 to Dec 31, 2015 for all permitted amateur bands (160m, 80m, 40m, 30m, 20m, 17m, 15m, 12m, 10m, 6m, 2m, 70cm) any mode (Mixed, CW, Phone, Digital) with the special prefix 6Y75

Special Event Amateur Radio Call Sign GB50MU

The Mid Ulster Amateur Radio Club will be hosting a special event call sign for the month of December namely GB50MU using the letter O to form a callsign that reads 50 Mid Ulster.

The special amateur radio callsign is to celebrate 50 years of the Mid Ulster Amateur Radio Club, who are planning on completing another 50 and more.

For further information please contact Dave the club secretary atmuarc.secretary@yahoo.co.uk

60m Access for Dutch Amateur / Radio Hams

Amateur / Ham radio operators in the Netherlands have gained access to 5350 to 5450 kHz at 2300 UT from Tuesday 2nd December 2015



The 5350 to 5450 kHz band (60 meters) was incorporated into the Netherlands National Frequency Plan published in the Official Gazette on Monday 2nd November 2015, however official permission to use the band was not received until early December 2015.

Holders of the Dutch Full amateur licence are permitted to run up to 100 watts PEP. VERON is recommending that Upper Sideband (USB) is be used in the new band.

VERON News - <http://tinyurl.com/VERON-news>

VERON Twitter - https://twitter.com/VERON_Nederland

Dutch regulator Agentschap Telecom announcement - <http://tinyurl.com/Netherlands-AT-5MHz>

December is YOTA Month

Youth on the Air (YOTA) month is this December 2015, and over 40 YOTA callsigns in total will be active from schools, scoutings or just used by young radio amateurs under the age of 26 years.

All Worldwide amateur radio operators are asked to make a QSO with the youngsters, be aware that some of them are new to the radio hobby, while others are more experienced. Goal is to show this amazing radio amateur hobby to youth and to have more "youngsters on the air".

Among the calls to be active are:

3V8YOTA, 9A0YOTA, 9A15YOTA, A2YOTA, A43YOTA, DQ0YOTA, EA1RCG/YOA, EG9YOTA, EI0YOTA, ES9YOTA, G15YOTA, GI15YOTA, GM15YOTA, GW15YOTA, HA8YOTA, HB9YOTA, HG0YOTA,

II2YOTA, II5YOTA, J62YOTA, LX4YOTA, LY5YOTA, LZ2015YOTA, OD5RI/YOTA, OE0YOTA, OE15YOTA, OH2YOTA, OL15YOTA, OM15YOTA, OM9YOTA, ON4YOTA, PA6YOTA, PD6YOTA, SH9YOTA, SP3YOTA, YT15YOTA, and ZS9YOTA.

There are four special awards available for working YOTA Stations

- Bronze: worked 5 YOTA stations
- Silver: worked 10 YOTA stations
- Gold: worked 15 YOTA stations
- Platinum: worked 25 YOTA stations

The YOTA stations will be active throughout the entire month of December. Information about the stations is available at

<http://www.ham-yota.com/december-yota-month/>

Awards -

<http://www.ham-yota.com/december-yota-month/award-request/>

UK Receive-Only Radio Scanners Guidance

UK Regulator Ofcom has provided guidance in relation to the legal position of reception of radio transmissions by unauthorised persons or groups

It notes that the services that can be listened to under the definition of general reception are:

- licensed broadcasting stations;
- amateur and citizens' band radio transmissions; and
- weather and navigation transmissions

Radio scanners should not be used to listen to any other radio services, including illegal radio stations (pirates - by virtue of the fact that they are not licensed radio stations).

Ofcom advise there are two criminal offences, under section 48 of the Wireless Telegraphy Act 2006, relating to unauthorised reception.

More information -

<http://stakeholders.ofcom.org.uk/enforcement/spectrum-enforcement/guidance>

PMR446 Liberalisation

Ofcom (UK) has decided to amend the existing Wireless Telegraphy Act 2006 licence exemption criteria for some wireless devices

The follows regular Ofcom reviews and reflects technical developments. In particular, the amendments include some minor changes to the existing exemption criteria for the following devices:

- Personal Mobile Radio (PMR) (like US FRS) 446: liberalising the use of this band (446.0 to 446.2 MHz) by removing analogue and digital demarcations from the frequency bands;

- Railway Level Crossing Radar: replacing the current 'exclusion zones' surrounding Radio Astronomy sites with 'coordination zones'; and
- Digital Enhanced Cordless Telecommunications (DECT) equipment: reclassifying the technical requirements, currently classed as Cordless Telephony, to Short Range Devices.

Ofcom statement -

<http://stakeholders.ofcom.org.uk/consultations/wta-exemptions-jul15/>

YOTA 2016 Austria - Call for Applications

Lisa Leenders PA2LS, Chair of the IARU Region 1 Youth Working Group reports the next YOTA event which will take place in Austria

The 6th edition of Youngsters On The Air will take place in Austria. OeVSV (Österreichischer Versuchssenderverband, which will celebrate their 90 years anniversary, will be hosting next YOTA summer event. 75 Youngsters will be invited to travel to the Austrian Alps to enjoy a program with many new elements compared to previous years.

It will be a great experience for all participants which they will never forget. To get a better feeling about this, have a look at the gallery from previous events.

More information - <http://www.ham-yota.com/gallery/>

New Youth Amateur Radio Club

The Young Hamsters are a club exclusively for young amateurs under the age of 30; promoting contesting, DXpeditions and operating amongst youngsters. The club is primarily active as MX0YHC and MS0YHC.

There is not currently any single club across the whole of the United Kingdom for young amateurs to come together and as such this represents a fantastic opportunity for people to join with a pioneering club in amateur radio to really further our hobby.

Membership is completely free and there are no forms to fill in - simply email younghamsters@gmail.com to join or search for The Young Hamsters on Facebook!

New Amateur / Ham Radio Band on 5 MHz

During the recent WRC-15 convention in Geneva, a new amateur service allocation at 5 MHz was approved

The small 15 kHz allocation between 5351.5 - 5366.5 kHz is the first new allocation at HF since the WARC of 1979.

After intense pressure from the Fixed service primary user, power limits have been set at 15 Watts eirp in Regions 1 and 3, 20 Watts eirp in Mexico and 25 Watts eirp in Central America, South America and most of the Caribbean area.

Region 1 Member Societies not having an allocation under Article 4.4 of the Radio Regulations are urged to contact their administration to have this narrow segment included in their licence, although the new Radio Regulations will not come into force until January 1, 2017.

IARU Region 1 - <http://iaru-r1.org/>

Emergency Communications Changes in Oregon

The state of Oregon, USA have decided to cut ties with the Oregon Amateur Radio Service.

The state, which suffers from natural disasters including major earthquakes, appear to have no back-up communication with the removal of the amateur radio community.

A breakdown in the relationship appears to be centred around the issue of the state of the broadcasting equipment and a lack of control in relation to preparation and deployment.

Termination Letter - <http://www.opb.org/news/article/oregon-ousts-leader-of-amateur-radio-service/>

Oregon Office of Emergency Management Amateur Radio Unit - http://www.oregon.gov/omd/oem/pages/tech_resp/amateur_radio.aspx

New Sky Product Raises Pollution Fears

British premium television provider Sky have launched a new product, Sky Q utilising the PowerLine technology that pollute the HF radio spectrum.

Sky, who service over 10 million homes in the UK are rolling out Sky Q as a premium service to customers.

PLT Standard prEN50561-1 relaxed the HF emission limits by almost 10,000 times (38 dB) - http://www.southgatearc.org/news/august2012/new_draft_plt_standard_pren50561_1.htm

UKQRM is a group fighting powerline communications - <http://groups.yahoo.com/group/UKQRM/>

Ban Power Line Technology - <http://www.ban-plt.org.uk/>

UK Retailer Fined for Faulty Battery Sale

UK High Street (Main Street) Retailer Poundstrecher has admitted 35 offences of “supplying or offering faulty or dangerous goods” after Swansea Trading Standards teams launched an investigation into the sale of Hyundai and V2 Xtreme branded batteries.

The inspectors uncovered a number of stores throughout Wales were selling the batteries, that were either leaking or out of date.

“Their customers deserve better than to be sold sub-standard batteries which were leaking zinc and acid and putting people - especially young children - at risk of very serious harm.”
— Mark Child, Cabinet Member for Wellbeing at Swansea Council

The company admitted the offence, and was fined £350,000, with an additional £20,000 court costs awarded against the company.

Crown Crest (Leicester), who supplied Poundstrecher with the product, were fined a total of nearly £150,000 including costs for the same offence.

More information - <http://www.bbc.co.uk/news/uk-wales-34902387>

New Raspberry Pi “Zero” Launched

The Raspberry Pi foundation has launched a new edition to the successful Raspberry Pi range, the Raspberry Pi Zero. The new device, made in Wales, UK, is the smallest most cost effective device the group have manufactured. Priced at just \$5 / £4, the specs are in line if not better than a high end laptop from ten years ago.

- A Broadcom BCM2835 application processor
 - 1GHz ARM11 core (40% faster than Raspberry Pi 1)
- 512MB of LPDDR2 SDRAM
- A micro-SD card slot
- A mini-HDMI socket for 1080p60 video output
- Micro-USB sockets for data and power
- An unpopulated 40-pin GPIO header
 - Identical pinout to Model A+/B+/2B
- An unpopulated composite video header
- Our smallest ever form factor, at 65mm x 30mm x 5mm

Many amateur radio and technology enthusiasts have spotted the new device as a “free gift” on the cover of the MagPi magazine.

More information -

<https://www.raspberrypi.org/blog/raspberry-pi-zero/>

Afrikaans Amateur Radio Dictionary

The South African Radio League (SARL) has received excellent feedback from interested radio amateurs following a call to compile an Afrikaans amateur radio dictionary.

The initial team consists of eight amateur radio members, Etienne Naude, ZS6EFN; Jan Pieper, PE1PMO; Pine Pienaar, ZS6GST; Cobus Rabe, ZS1DJR; Louis de Wet, ZS6SK; Ryan Gibson, ZS6GGR; Johan du Bryn, ZS6JHB, and Fritz Sutherland, ZS6SF.

After agreeing the working structure and guidelines to make the project a success, the final working document will be sent to the team members during the coming week for their input and finalisation after which the project will start in all earnest.

The workgroup will be divided into three groups to allow for bigger and wider participation from amateurs and other interested parties.

Group A, a 4-member committee, will be responsible for the project overall. Group B will consist of the wider radio amateur community with input to the word lists and external parties such as linguists. Group C is responsible for all the editing work together with the committee who will be responsible for the layout and structure of the dictionary.

History

Marconi Recording Released

The Essex Record Office have released a recording of a speech made by Guglielmo Marconi in 1935

Second part of a speech made by Guglielmo Marconi on the occasion of the unveiling of the 'Fisk Memorial' at Wahroonga, Sydney, New South Wales, Australia on 14 December 1935 (the disc is incorrectly labelled). The 'Fisk Memorial' commemorates the first direct wireless message sent from the U.K. to Australia, in 1918.

In the speech, Marconi forecasts the impact that wireless communication will have on ship navigation, but also the world economy generally. Would he be surprised by how accurate he was in his prediction that 'no country can make much headway' without such technology?

Listen - <https://soundcloud.com/essex-record-office/speech-by-marconi>

New Gear

Ham Software

K6TU Remote - iPad client for FlexRadio 6000 series radios

Stu Phillips K6TU is pleased to announce the availability of the K6TU Remote iPad app for full control of the FlexRadio 6000 series radios.

K6TU Remote is the first native iPad client for controlling the FlexRadio 6000 series radios over LAN or the Internet (via a VPN tunnel).

The app supports a full pan adaptor and waterfall as well as remote audio for both transmit and receive. The current 1.3 release (available in the Apple App Store) supports transmit for AM and SSB modes with up to two slices for working split operation for DX.

The app provides extensive controls for operating the radio and supports transmit audio via the built-in microphone, wired or wireless headset.

Full details are available at:

<http://k6tu.net/ipad/k6turemote.html>

The app is available for free download from the App Store. The free version supports receive operation only on a single slice. Transmit and dual slice operation can be unlocked by purchasing a subscription. Subscriptions are available for 30 days or for a year. Price is dependent on your Apple Store territory - in the United States, the 30 day subscription is \$9.99 and the one year subscription is \$99.99.

Future releases will add support for CW transmit (via on screen or Bluetooth keyboard), integration with logging software and many other features. New functionality is automatically available to subscribers at no additional cost.

For best results, use an iPad Air or more recent iPad - support is included for the iPad Pro.



Hi Gang,

If you've ever wondered what it's like to operate CQ World Wide from Australia, this really cool video from the VK2GGC contest station captures the 2015 excitement beautifully! Not only does it include aerial shots of their rocking station, lovely imagery and display my software in action, there is even a Q with me about 3 minutes in! If you aren't already excited for this weekend's 10 Meter contest, you will be after watching this!

<https://youtu.be/1Mf8VIPyji8>

And speaking of the fun and thrills of club contesting...

Club Score Processor 1.0 is Now Available!

Club Score Processor is free software designed to add the current contest scores for all the individual members in your club and display the tally in real time, updating automatically throughout the contest weekend on a single web page. You can download Club Score Processor here:

<http://www.n3fjp.com/clubscore.html>

Background:

It's really neat how one thing leads to the next! I originally added the FTP status upload feature to my contesting software with Field Day in mind, so that club members could see how their Field Day station was doing in real time when they were away from the Field Day site.

Before long, I started getting requests to add the status upload feature to all the contest programs. Soon folks, including our own club, the Northeast Maryland Amateur Radio Contest Society, (www.nemarc.org) started enjoying seeing how each club member was doing in other contests too. It really adds to the fun, camaraderie and competitive juices on contest weekends!

We quickly realized that instead of browsing to each individual upload to see how our club members are doing one by one, it would be even nicer to have all the essential information on one web page, with a current grand total club score displayed in real time! That thought was the genesis of this Club Score Processor software, which retrieves the pertinent information from each of the individual club member's web uploads, combines it and presents a total score and leader board!

Here's an example of our actual club page that this Club Score Processor created at the conclusion of 2015 November

Sweepstakes SSB:

NEMARCS Total Score = 417,518

Current status as of: 2015/11/23 10:18:36 UTC

Uploading Participants:

Call	Score	QSOs	20 Min	60 Min	Frequency
W3JX	186,584	1,124	27	27	28.84600
N3FJP	91,964	554	30	24	14.15980
KA2BKG	51,460	310	18	24	14.31800
KB3KNX	32,400	200	27	19	3.80900
N3FM	27,556	166	9	13	3.82537
WC3N	18,758	113	15	5	7.13890
K4JDF	8,320	104	12	4	3.86399
KA3YJM	476	17	0	0	

The total page will refresh automatically every 60 seconds, as long as one of your club members keeps this program running during the contest (it's okay to close and start the program again later if needed). When the program is closed, the web page will remain, but of course it will not have new data to display.

You'll find complete setup details on the download page here:

<http://www.n3fjp.com/clubscore.html>

Even if you don't have a formal club, you and enjoy seeing how your friends locally are doing, or track anyone who is running my software with the upload enabled (even me). All you need is their URL!

BUY, SELL, or SWAP

Hamfests & Events

01/09/2016 | San Antonio Radio Club Fiesta
 Location: Schertz, TX
 Type: ARRL Hamfest
 Sponsor: San Antonio Radio Club
 Website: <http://w5sc.org>

03/12/2016 | WCARC Swapfest and License Testing
 Location: Georgetown, TX
 Type: ARRL Hamfest
 Sponsor: Williamson County ARC
 Website: <http://wcarc.com>

03/05/2016 | Irving ARC, Inc. Hamfest
 Location: Irving, TX
 Type: ARRL Hamfest
 Sponsor: Irving Amateur Radio Club, Inc.
 Website: <http://www.irvingarc.org>

03/12/2016 | WCARC Swapfest and License Testing
 Location: Georgetown, TX
 Type: ARRL Hamfest
 Sponsor: Williamson County ARC
 Website: <http://wcarc.com>

03/18/2016 | South Texas Section Convention (Greater Houston Hamfest)
 Location: Rosenberg, TX
 Type: ARRL Convention
 Sponsor: Brazos Valley Amateur Radio Club
 Website: <http://www.houstonhamfest.org/>

03/19/2016 | West Texas Section Convention (St. Patrick's Day Hamfest)
 Location: Midland, TX
 Type: ARRL Convention
 Sponsor: Midland Amateur Radio Club
 Website: <http://hamfest.w5qgg.org>

04/16/2016 | HamEXPO
 Location: Belton, TX
 Type: ARRL Hamfest
 Sponsor: Temple Amateur Radio Club
 Website: <http://tarc.org/hamexpo/>

08/05/2016 | Texas State Convention (Austin Summerfest 2016)
 Location: Austin, TX
 Type: ARRL Convention
 Sponsor: Austin ARC & Texas VHF-FM Society
 Website: <http://www.austinsummerfest.org>

NFLARC Weekly Information Net

Net meets every Wednesday night at 9:00 PM local time

- The Linked Repeaters at
 - Corsicana - 2M (145.290 + with a tone of 146.2)
 - Corsicana - 440 (442.925 - with a tone of 146.2)
 - Buffalo - 2M (147.280 + with a tone of 146.2)
 - Franklin - 2M (146.960 - with a tone of 146.2)
 - Hillsboro - 2M (146.780 - with a tone of 123.0)
 - Fairfield * 2M (145.110 * with a tone of 146.2)
 - Lindale * 2M (145.600 simplex with a tone of 146.2)
 - Mexia * 2M (145.39 - with a tone of 146.2)
- Echolink * KD5OXM-L
- We can be Monitored via
 - <http://nflarc.org/radio.html>
 - <http://www.radioreference.com>

- "Central Texas Amateur Repeaters"
- "Navarro, Freestone, Limestone and Leon Counties Repeaters"

Net Control Schedule

- January
 - 06 Wil / Rebekah
 - 13 Michael / Doug
 - 20 Rebekah / Wil
 - 27 Wil / Rebekah
- February
 - 3 Michael / Doug
 - 10 Rebekah / Wil
 - 17 Wil / Rebekah
 - 24 Michael / Doug

If you would like to learn or practice being net control, contact us here <http://nflarc.org/email.html>

Other Area Nets

- **HF**
 - 10 mtrs Tues 8:00p 28.437 + or - W5DXS net
 - 40 mtrs M-Sat 10:00-noon 1:00-2:00p Sat 10:00a-noon 7.290
 - 80 mtrs 24/7 6:30p SW Traffic Net 3.873
 - 80 mtrs 24/7 8:00p-9:00 Gulf Coast Hurricane Net 3.935
- **U/VHF**
 - **Daily-**
 - 4:00 a -an informal net on 146.580 Simplex every morning, Come and visit with the bunch!
 - **Mon-**
 - 7:00p 146.82 and Waco area 146.660 linked Temple ARC
 - 8:00p 145.150 Hotarc Bakers Dozen Training net (WX Net)
 - **Tue-**
 - 7:00p -147.180 Bosque County ARC Round Table Net
 - 7:30p 147.180 Pink HAMster net
 - 7:30 P. M The 2-meter SSB group is using 144.200 USB on Tuesday nights.
 - 8:30p- 147.24 (97.4 tone) Slo-scan Emergency Preparedness Net
 - 9:00p- 147.140, 97.4 SlowScan-ATV Talkabout Net
 - 10:00p 147.360 PL Tone 110.9 Tarlton Area ARC
 - **Weds.**
 - 7:30 p.m. W5TSG Emergency Relay Net SIMPLEX . 147.550 All checkins during the 7:30 net will have an opportunity to make comments on the 8:00 p.m. net
 - 8:00 p.m. W5TSG Traffic and Training Net 147.320 with a tone of + 123
 - 8:00pm ON THE LAST WEDS. OF THE MONTH ON 145.31 TONE 123 THE W5TSG TRAFFIC AND TRAINING NET. All licensed radio operators are welcome to check in. Bud AD5SK Net Control
 - 9:00p- 146.78 Quad County net (NFLARC Linked repeaters)
 - 9:00 PM Metroplex AMSAT- Arlington ARC Repeater 147.14+, 110.9 Hz Tone
 - **Thurs.**
 - 7:00p 146.62 tone 123.0 LWARDS Training Net
 - (not linked on NFLARC per LWARD request)
 - 8:00p 147.14 Central Texas ARC Net (WX Net)
 - 8:00p 145.310, 123.0 Central Texas Amateur Radio Net
 - **Sun.**

- 7:30p 444.00 tone 136.5 and 145.45 tone 88.5 Johnson County ARC (Cleburne)

Other Area Club Meetings

- All-Ham Breakfast
 - Every Sat.9:00am GRIFFS at China Spring Road & Wortham Bend Road in China Spring. Come join your fellow hams every Saturday morning.
- Bosque County ARC
 - 2nd Sat. 6:30pm Johnny's Café on HWY. 6 In Clifton
 - VEC team there to give a test or upgrade at 5:30 each meeting
- Central Texas ARC
 - 1st Tues. 7:00pm Belton EOC
- HOTARC
 - 4th Thurs. 7:00pm W5NCD Workshop 12772 Chapel Rd., Lorena
- Lake Whitney ARS
 - 3rd Sat. 10:00am Whitney Fire Department
- Temple ARC
 - 1st Thurs. 7:00pm Western Hills Church of Christ Adams & I-35, Temple
- W5TSG ARC
 - 2nd Monday 6:30pm TSGARC Clubhouse 3292 Speegleville Road, Waco
- Tarleton Area ARC
 - 1st Tuesday of each month Stephenville (also a 70cm repeater available 444.775 PL tone 88.5)
- CCARC - Cedar Creek Amateur Radio Club
 - Second Saturday of each month at the [Mabank Cafe, 301 N. 3rd. Street in Mabank.](#)
 - Their meeting room is a no-smoking area for us all morning.

Contest Calendar

January 2016	
± AGB New Year Snowball Contest	0000Z-0100Z, Jan 1
± NCCC RTTY Sprint	0145Z-0215Z, Jan 1
± NCCC Sprint	0230Z-0300Z, Jan 1
± SARTG New Year RTTY Contest	0800Z-1100Z, Jan 1
± AGCW Happy New Year Contest	0900Z-1200Z, Jan 1
± AGCW VHF/UHF Contest	1400Z-1700Z, Jan 1 (144) and 1700Z-1800Z, Jan 1 (432)
± QRP ARCI New Years Sprint	1500Z-1800Z, Jan 1
± PODXS 070 Club PSKFest	0000Z-2400Z, Jan 2
± WW PMC Contest	1200Z, Jan 2 to 1200Z, Jan 3
± Original QRP Contest	1500Z, Jan 2 to 1500Z, Jan 3
± ARRL RTTY Roundup	1800Z, Jan 2 to 2400Z, Jan 3
± EUCW 160m Contest	2000Z-2300Z, Jan 2 and 0400Z-0700Z, Jan 3
± Kid's Day Contest	1800Z-2359Z, Jan 3
± ARS Spartan Sprint	0200Z-0400Z, Jan 5
± QRP Fox Hunt	0200Z-0330Z, Jan 6
± Phone Fray	0230Z-0300Z, Jan 6
± CWops Mini-CWT Test	1300Z-1400Z, Jan 6 and 1900Z-2000Z, Jan 6 and

NFLARC Scheduled Club Meetings

January 9, 2016

NFLARC Lunch Time: 12:00pm - 1:00pm
NFLARC Meeting Time: 1:00pm - 3:00pm

February 13, 2016

NFLARC Lunch Time: 12:00pm - 1:00pm
NFLARC Meeting Time: 1:00pm - 3:00pm

March 12, 2016

NFLARC Lunch Time: 12:00pm - 1:00pm
NFLARC Meeting Time: 1:00pm - 3:00pm

April 9, 2016

NFLARC Lunch Time: 12:00pm - 1:00pm
NFLARC Meeting Time: 1:00pm - 3:00pm

May 14, 2016

NFLARC Lunch Time: 12:00pm - 1:00pm
NFLARC Meeting Time: 1:00pm - 3:00pm

June 11, 2016

NFLARC Lunch Time: 12:00pm - 1:00pm
NFLARC Meeting Time: 1:00pm - 3:00pm

July 9, 2016

NFLARC Lunch Time: 12:00pm - 1:00pm
NFLARC Meeting Time: 1:00pm - 3:00pm

August 13, 2016

NFLARC Lunch Time: 12:00pm - 1:00pm
NFLARC Meeting Time: 1:00pm - 3:00pm

September 10, 2016

NFLARC Lunch Time: 12:00pm - 1:00pm
NFLARC Meeting Time: 1:00pm - 3:00pm

October 8, 2016

NFLARC Lunch Time: 12:00pm - 1:00pm
NFLARC Meeting Time: 1:00pm - 3:00pm

November 12, 2016

NFLARC Lunch Time: 12:00pm - 1:00pm
NFLARC Meeting Time: 1:00pm - 3:00pm

December 10, 2016

NFLARC Lunch Time: 12:00pm - 1:00pm
NFLARC Meeting Time: 1:00pm - 3:00pm

	0300Z-0400Z, Jan 7
+ UKEICC 80m Contest	2000Z-2100Z, Jan 6
+ NCCC RTTY Sprint	0145Z-0215Z, Jan 8
+ QRP Fox Hunt	0200Z-0330Z, Jan 8
+ NCCC Sprint Ladder	0230Z-0300Z, Jan 8
+ Old New Year Contest	0500Z-0900Z, Jan 9
+ UBA PSK63 Prefix Contest	1200Z, Jan 9 to 1200Z, Jan 10
+ SKCC Weekend Sprintathon	1200Z, Jan 10 to 2400Z, Jan 11
+ North American QSO Party, CW	1800Z, Jan 9 to 0559Z, Jan 10
+ NRAU-Baltic Contest, SSB	0630Z-0830Z, Jan 10
+ NRAU-Baltic Contest, CW	0900Z-1100Z, Jan 10
+ DARC 10-Meter Contest	0900Z-1059Z, Jan 10
+ Midwinter Contest	1000Z-1400Z, Jan 10
+ NAQCC CW Sprint	0130Z-0330Z, Jan 13
+ QRP Fox Hunt	0200Z-0330Z, Jan 13
+ Phone Fray	0230Z-0300Z, Jan 13
+ CWops Mini-CWT Test	1300Z-1400Z, Jan 13 and 1900Z-2000Z, Jan 13 and 0300Z-0400Z, Jan 14
+ AWA Linc Cundall Memorial CW Contest	2300Z, Jan 13 to 2300Z, Jan 14 and 2300Z, Jan 16 to 2300Z, Jan 17
+ NCCC RTTY Sprint	0145Z-0215Z, Jan 15
+ QRP Fox Hunt	0200Z-0330Z, Jan 15
+ NCCC Sprint Ladder	0230Z-0300Z, Jan 15
+ LZ Open Contest	1800Z-2200Z, Jan 15
+ Hungarian DX Contest	1200Z, Jan 16 to 1159Z, Jan 17
+ North American QSO Party, SSB	1800Z, Jan 16 to 0559Z, Jan 17
+ Feld Hell Sprint	2000Z-2359Z, Jan 16 (EU/AF/MidEast) and 2300Z, Jan 16 to 0259Z, Jan 17 (ENA/SA/Carib) and 0200Z-0559Z, Jan 17 (WNA/AS/OC)
+ Run for the Bacon QRP Contest	0200Z-0400Z, Jan 18
+ QRP Fox Hunt	0200Z-0330Z, Jan 20
+ Phone Fray	0230Z-0300Z, Jan 20
+ CWops Mini-CWT Test	1300Z-1400Z, Jan 20 and 1900Z-2000Z, Jan 20 and 0300Z-0400Z, Jan 21
+ NAQCC CW Sprint	0130Z-0330Z, Jan 21
+ NCCC RTTY Sprint	0145Z-0215Z, Jan 22
+ QRP Fox Hunt	0200Z-0330Z, Jan 22
+ NCCC Sprint Ladder	0230Z-0300Z, Jan 22

+ Montana QSO Party	0000Z-2400Z, Jan 23
+ YL-ISSB QSO Party, CW/SSB	0000Z, Jan 23 to 2359Z, Jan 24
+ UK/EI DX Contest, CW	1200Z, Jan 23 to 1200Z, Jan 24
+ BARTG RTTY Sprint	1200Z, Jan 23 to 1200Z, Jan 24
+ WAB 1.8 MHz Phone	1900Z-2300Z, Jan 23
+ QRP ARCI Fireside SSB Sprint	2000Z-2359Z, Jan 24
+ SKCC Sprint	0000Z-0200Z, Jan 27
+ QRP Fox Hunt	0200Z-0330Z, Jan 27
+ Phone Fray	0230Z-0300Z, Jan 27
+ CWops Mini-CWT Test	1300Z-1400Z, Jan 27 and 1900Z-2000Z, Jan 27 and 0300Z-0400Z, Jan 28
+ UKEICC 80m Contest	2000Z-2100Z, Jan 27
+ NCCC RTTY Sprint	0145Z-0215Z, Jan 29
+ QRP Fox Hunt	0200Z-0330Z, Jan 29
+ NCCC Sprint Ladder	0230Z-0300Z, Jan 29
+ CQ 160-Meter Contest, CW	2200Z, Jan 29 to 2200Z, Jan 31
+ Feld Hell Sprint	0000Z-2359Z, Jan 30
+ REF Contest, CW	0600Z, Jan 30 to 1800Z, Jan 31
+ UBA DX Contest, SSB	1300Z, Jan 30 to 1300Z, Jan 31
+ Winter Field Day	1700Z, Jan 30 to 1700Z, Jan 31
+ ARRL January VHF Contest	1900Z, Jan 30 to 0359Z, Feb 1
+ Classic Exchange, CW	1400Z, Jan 31 to 0800Z, Feb 1 and 1400Z, Feb 2 to 0800Z, Feb 3

DX News



The world's most-wanted entity, North Korea, was briefly on the air on 20 December.

Polish DXer Dom Gryzb, 3Z9DX worked several hundred stations as P5/3Z9DX on 20, 15 and 10m. He reported very high noise levels in Pyongyang, from where he ran 100W to a vertical just above ground level.

The site was amid many government high-rise buildings. Many officials visited the station whilst it was on the air, keeping a close watch on the amateur radio operation. Dom was in the country as part of preparations for a proper DXpedition to P5, planned for February 2016.

Amateur Satellite



Microphone -- A device that converts sound waves into electrical energy.

Milli -- The metric prefix for 10⁻³, or divide by 1000.

Mobile device -- A radio transmitting device designed to be mounted in a vehicle. A push-to-talk (PTT) switch activates the transmitter.

Modem -- Short for modulator/demodulator. A modem modulates a radio signal to transmit data and demodulates a received signal to recover transmitted data.

Modulate -- To vary the amplitude, frequency, or phase of a radio-frequency signal.

Modulation -- The process of varying an RF carrier in some way (the amplitude or the frequency, for example) to add an information signal to be transmitted.

Monitor mode -- One type of packet radio receiving mode. In monitor mode, everything transmitted on a packet frequency is displayed by the monitoring TNC. This occurs whether or not the transmissions are addressed to the monitoring station.

Morse code (see CW).

Multimeter -- An electronic test instrument used to measure current, voltage and resistance in a circuit. Describes all meters capable of making these measurements, such as the volt-ohm-milliammeter (VOM), vacuum-tube voltmeter (VTVM) and field-effect transistor VOM (FET VOM).

Multimode transceiver--Transceiver capable of SSB, CW and FM operation.

For Your Information

- NFLARC Club Dues are due every May

Ham Radio Glossary

M

Malicious (harmful) interference -- Intentional, deliberate obstruction of radio transmissions.

Maximum useable frequency (MUF) --- The highest-frequency radio signal that will reach a particular destination using sky-wave propagation, or skip. The MUF may vary for radio signals sent to different destinations.

MAYDAY -- From the French m'aidez (help me), MAYDAY is used when calling for emergency assistance in voice modes.

Mega -- The metric prefix for 10⁶, or times 1,000,000.

Metric prefixes -- A series of terms used in the metric system of measurement. We use metric prefixes to describe a quantity as compared to a basic unit. The metric prefixes indicate multiples of 10.

Metric system -- A system of measurement developed by scientists and used in most countries of the world. This system uses a set of prefixes that are multiples of 10 to indicate quantities larger or smaller than the basic unit.

Micro -- The metric prefix for 10⁻⁶, or divide by 1,000,000.

QSL Card

Web Links



<http://qrznow.com/>



<http://new.dxsummit.fi/#/>



<http://www.qrz.com/>



<http://www.repeaterbook.com>



<http://www.southgatearc.org/index.htm>



<http://www.hornucopia.com/contestcal/index.html>



<http://icqpodcast.com/>



WIA - <http://www.wia.org.au/>



South African Radio League (SARL) - <http://www.sarl.org.za/>



<http://www.grapevineamateurradio.com/>



<http://www.n3fjp.com>

The Spectrum Monitor



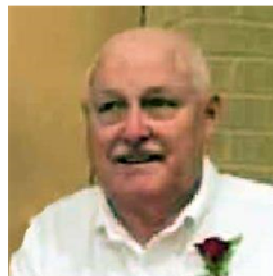
Online magazine

<http://www.thespectrummonitor.com/index.aspx>

Silent Keys



Michael G. Ross N5MVL



Michael G. "Duster" Ross passed away Wed., Dec. 16, 2015. **Family and friends will gather to celebrate his life of 70 years on Tuesday, Dec. 22, in the China Spring Cemetery, China Spring, Texas.** Michael was born on July 15, 1945 to Robert and Lavera (Amstutz) Ross in Fort Wayne, Indiana. He graduated from Fenton High School, Bensenville, Ill. On September 24, 1966 he married Janice Hewitt in Bad Axe, Michigan. They moved to Texas and Michael drove a dump truck for Young Brothers in Waco, retiring in 2005. He was a member of the China Spring First Baptist Church where he ran the church sound system. Following his retirement he moved back to Indiana before moving to the warmer climate of Lubbock in 2014. Michael was a member of the Downtown Bible Class. He served as a volunteer fireman in Indiana and Texas and was a member of the Texas and Indiana Patriot Guard Riders. He was an avid HAM radio operator, and for

time away he enjoyed riding his Burgman 400 motorcycle across the country. He was preceded in death by parents; his wife, Janice K. Ross; and a daughter, Tonya Pitts. Michael is survived by a daughter, Tia and Lee Porter of Lubbock; five grandchildren, Staehli Ross, Dane Hernandez, Josh Porter, Jessica and Nick Hottmann, and Nichole Porter; two great-grandsons, Tildon Hottman and Canyon Hottman; and three brothers, Steve and Jean Ross of Port Charlotte, Florida, Mark and Marty Ross of Springhill, Tennessee, and Ron and Peggy Ross of Mahomet, Illinois. In lieu of flowers, memorial contributions are suggested to the Patriot Guard Riders, 1907 Sandstone Drive, Killeen, Texas 76549 or

www.centex.pgr.org. To leave your thoughts and memories of Michael visit www.memorialdesigners.net. Lake Ridge Chapel and Memorial Designers 6025 82nd Street Lubbock, Texas 79424 (806) 698-8085 Sign the Guest Book at www.wacotrib.com

Mike was a fulltime member of the TSGARC as well as HOTARC and he participated in nearly all of the activities of both clubs. He was also a super ham and friend of us all. He will be missed...

- ragchew@nflarc.org - is sent to the newsletter editor

If you have Questions, Comments, Links, Submissions, Corrections, Etc.

Send them to ragchew@nflarc.org

73

2015-2016 Officers

President: Doug S - KE5CDK

Vice President: Rodger W - W5UOK

Secretary: Rebekah M - K5RCM

Treasurer: James S - KD5OXM

Director (1yr): Mary S - KE5FGU

Director (2yr): Kevin M - KW5MOS

Director (3yr): Michael B - KF5KHS

Field Day Committee:

Testing Committee:

Rebekah M - K5RCM

VE Team

Rebekah M - K5RCM

Public Relations Chairman

Rebekah M - K5RCM

Activities Chairman

Rebekah M - K5RCM

Ragchew Editor

Doug S - KE5CDK

Address Book

- Staff@nflarc.org - Is sent to pres, vp, sec, tres, & board
- members@nflarc.org - Is sent to all members on the mailing list
- vec@nflarc.org - Is sent to our VEC's
- ve@nflarc.org - Is sent to the VE team
- ares@nflarc.org - Is sent to pres, vp, sec, tres,
- fd@nflarc.org - Is sent to pres, vp, sec, tres,