



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.



There are Amazon links on our site now

If you go to Amazon by clicking our link we get .5% on purchases made there at no cost from you.

Look for it at nflarc.org And in the forum.



- **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 an be Monitored via

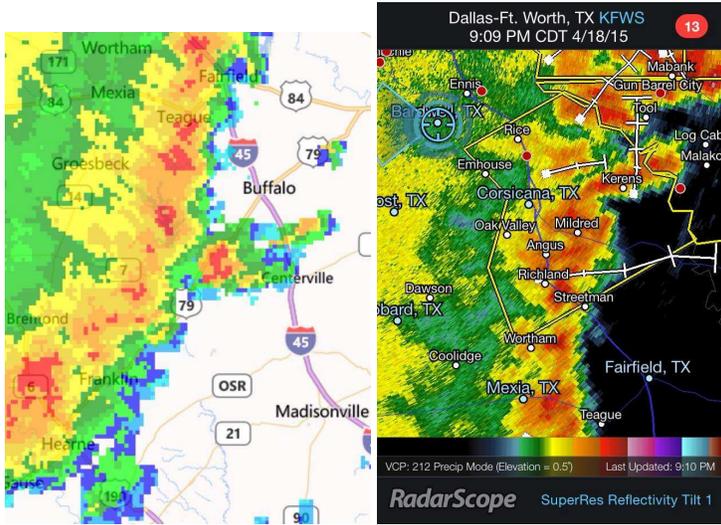
- <http://nflarc.org/radio.html>
- <http://www.radioreference.com>
 - Look for (Central Texas Amateur Repeaters)

License Training Class / Testing

TBA

LOCAL NEWS & EVENTS

4-18-2015 Storm



Approx 1,100 without power after tonight's storms.

NWS Fort Worth (@NWSFortWorth):

857pm- Measured 48mph wind gust at Corsicana Municipal Airport

9:06 PM radar capture. Storms continue to move east through Navarro County. The reflectivity and velocity scales have come down but gusty winds and small hail remain possible as the storms clear the county.

The Ship That Wouldn't Die: The Saga of the USS Neosho: A World War II Story of Courage and Survival at Sea
By Don Keith

Best-selling author and active radio amateur operator Don Keith N4KC has just published his 29th book. *The Ship that Wouldn't Die* - an epic and true World War II story about a little known incident at the Battle of the Coral Sea in May 1942. The USS Neosho was a tanker assigned to the Allied fleet preparing for the upcoming showdown with Japan in the Coral Sea. Because of her value to the fleet, the tanker was sent 200 miles to the south for safety. However, enemy scouts mistook her for one of the Allied aircraft carriers and more than 80 dive-bombers were sent to attack her. Her escort destroyer was sunk immediately. Though seriously damaged and afire—she still held thousands of gallons of flammable fuel—the tanker's crew worked miracles to keep her afloat for four terrifying days until help finally came. Almost 200 men went into the shark-infested sea during the attack. Many of them ended up on life rafts. They drifted nine days before rescuers found them. Only four of those men were still alive by then.

Don is active in all aspects of the Amateur / Ham Radio hobby, is an ARRL member, and holds the Extra Class amateur radio license. His book *RIDING THE SHORTWAVES: EXPLORING THE MAGIC OF AMATEUR RADIO* talks about the captivating allure of ham radio and gives others—especially newcomers or those considering getting their licenses—ideas on how to get the most from the hobby. The amateur radio book—as well as all of N4KC's works—is available wherever books are sold and in most common reading formats.

Don Keith - <http://www.donkeith.com>

Don Keith Amateur Radio – <http://www.n4kc.com>

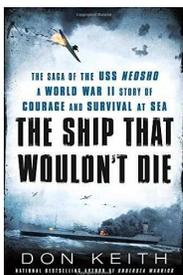
World News & Events

Logbook of The World STATUS as of Friday, April 24

04/24/2015

ARRL's Logbook of The World has been experiencing intermittent outages. The team is aware of the problem and asks that if you find you are unable to get into LoTW, try back at a later time. We apologize for the inconvenience and thank you for your patience while we work through this.

[Hams 29th Novel – The Ship That Wouldn't Die](#)



New UK Amateur Radio Course Finder



The RSGB, the national amateur radio body, has launched a new amateur radio training course and exam finder page on their website.

The UK Course and Exam Finder allows you to search for specific courses, or for exam centres, in your area.

Search for a course - <http://www.rsgb.org/find-courses>

Norway to Scrap FM Radio for the Digital Era

Norway to Scrap FM Radio for the Digital Era
Officials promise "better sound quality and new functionality"
Norway will become the first country to scrap FM radio after it announced final plans to switch to digital radio in the next two years. They will make the transition to Digital Audio Broadcasting by 2017, following up on a 2011 government proposal. It will be the

first country to do away entirely with FM radio

http://time.com/3827986/norway-fm-ra...ors_picks=true

Amateurs and Vehicular Radars Can Play Nicely Together

In comments filed on 6 April 2015 in response to a February FCC Notice of Proposed Rulemaking and Reconsideration Order (NPRM&RO) in ET Docket 15-26, the ARRL has told the Commission that it should make no change in the Amateur Radio allocation at 76-81 GHz and impose no additional regulatory constraints on Amateur or Amateur-Satellite uses of the band.



The League said the FCC should proceed with authorizing short-range radar (SRR) systems for automotive applications in the band under Part 15 rules, and that such applications are compatible with amateur operations in the band.

NPRM&RO (PDF format) -

https://apps.fcc.gov/edocs_public/attachmatch/FCC-15-16A1.pdf

In its NPRM&RO, the FCC solicited comment on issues involving expanded use of various radar applications in the 76-81 GHz band, which Amateur Radio shares with other services. The band 77.5-78 GHz is allocated to the Amateur and Amateur Satellite services on a primary basis, and to the Radio Astronomy and Space Research services on a secondary basis. The NPRM&RO was in response to a 2012 Petition for Rulemaking (RM-11666) by Robert Bosch LLC and to two petitions for reconsideration of a 2012 Report and Order (R&O) addressing vehicular radar systems in the 76-77 GHz band. ET 15-26 incorporated earlier proceedings.

The R&O can be found on the web -

<http://www.fcc.gov/document/toyotaera-76-77-ghz-band> .

In its comments, the ARRL suggested that the FCC overreached in proposing unjustifiable changes at 77-81 GHz on its own initiative. "There is not, anywhere in the four corners of the Bosch Petition for Rule Making or in any comments that have been filed thus far in response to RM-11666, any suggestion that there is any incompatibility between Amateur Radio operation and automotive radars," the ARRL said. "Quite the contrary." The League said a credible, current ITU study has "definitively established" compatibility between short-range automotive radars and Amateur Radio.

The ARRL said Bosch's filing of its Petition followed "extensive discussions and technical evaluations between ARRL and Bosch" that making spectrum at 77-81 GHz available for automotive radars

"would have no significant impact on the Amateur Radio Service." Bosch, the League pointed out, "did not propose a domestic spectrum allocation for vehicular radar devices and systems," just modification of the FCC Part 15 rules to permit vehicular radars at 78-81 GHz on the same basis that these radars now operate in the US at 76-77 GHz - on a non-allocated, non-interference basis.

The ARRL said that no changes are necessary in the Amateur Radio domestic primary allocation at 77.5-78 GHz or in the secondary amateur allocation at 77-77.5 GHz or 78-81 GHz to accommodate automotive radar systems at 77-81 GHz. "Nor are any additional Part 97 rules necessary to accommodate compatible sharing of that band between radio amateurs and automotive radar systems," the League added. "Indeed, that is the position of the United States in anticipation of consideration of WRC-15 agenda item 1.18 later this year."

The League characterized as "both premature and poor spectrum management" the FCC's proposal to unilaterally permit unspecified fixed radar systems throughout the 76-81 GHz band "without the benefit of any completed, definitive studies relative to the compatibility of fixed radar systems with automotive radar, radio-astronomy and/or Amateur Radio in this band."

Any consideration of fixed radars at 77-81 GHz, the League said, "should await the completion of conclusive, refereed compatibility studies that credibly establish compatibility with incumbent services."

The ARRL said should there be any "unjustified displacement" of the Amateur or Amateur-Satellite services from any portion of the 76-81 GHz band, the FCC should allocate "equivalent spectrum" for those services. As possibilities, the League suggested the bands 75.5-76 GHz and 81-81.5 GHz.

The deadline for reply comments - ie, comments on filed comments - in this proceeding is 20 April 2015. The ARRL plans to file reply comments.

International Achievement Award for Radio Ham



Radio Amateur Matt Ettus, N2MJI has won the 2014 annually awarded Wireless Innovation Forum of International Achievement Award at the recent WInnComm 2015 event held in San Diego, California, USA.

The Forum International Achievement Award is presented to an individual, group of individuals, or organization that made especially significant contributions to international furtherance or acceptance of Software Defined or Cognitive Radio.

Matt, N2MJI has utilised his company Ettus Research, now a part of National Instruments, resources as an innovator in the Software Defined Radio community since he released the first Universal

Software Radio Peripheral (USRP) in January of 2005 with GNU Radio software support.

Over the past year Matt Ettus has made significant contributions to the international SDR community with one of the most novel being RF NoC, an innovative network-on-chip based programming architecture that enables flexible and instantly reconfigurable FPGA acceleration for radio designers. This new approach improves the modularity of FPGA IP, improving reuse across designs. The Wireless Innovation Forum is a non-profit international industry association dedicated to driving the future of radio communications and systems worldwide.

Wireless Innovation Forum Announcement -

<http://www.onlineprnews.com/news/570592-1427830733-wireless-innovation-forum-announces-2014-achievement-award-winners-at-winncomm2015-in-san-diego.html>

FUNcube-1 fails but gets restarted

On the evening of 15 April, amateur satellite FUNcube-1 stopped transmitting.

During a later pass over Europe, PA3WEG commanded it back to nominal mode with full automatic mode switching.

A restart has now taken place so the satellite, also known as AO-73, is transmitting telemetry once again.

International Marconi Day

Saturday, 25 April is International Marconi Day, when special event stations connected to the inventor get on the air all over the world.

The Cornish Radio Amateur Club offers two special Award Certificates for working authorised International Marconi Day Award Stations.

One is for transmitting stations and the other for short wave listeners. The award classes and required standards to be achieved are summarised on the internet at www.gb4imd.com.

Australian Ham's "PicoSpace" Balloon Circumnavigates the Globe

04/17/2015

A foil, party-type balloon carrying a ham radio payload has circumnavigated the globe. Launched on April 6 by Australian radio amateur Andy Nguyen, VK3YT, of Kensington, Victoria, Australia, the balloon, designated **PS-41**, completed its round-the-world journey on April 16 and is still in the air. Along the way, it has been tracked by a network of Amateur Radio operators. Nguyen has been trying since early last year to have one of his launches go full circle. "PS-41 crossed the starting longitude of 144.903 at 11:20 AM AEST (0120 UTC) this morning, completing the first PicoSpace around-the-world trip," Nguyen posted on April 16. "Thanks to everyone for assistance with tracking and providing encouragement for the project; the trip would not have been possible without you." In

January, Nguyen's PS-30 balloon went down in suspected poor weather off the east coast of Africa near Madagascar.

The solar-powered, helium-filled PS-41 balloon carried an HF payload, sending *WSPR* spots and *JT9* telemetry on 30 and 20 meters from a 25 mW transmitter. The high-altitude PS-41 took a path over Tasmania, then south of New Zealand, the southern tip of South America, directly over the South Georgia and South Sandwich islands, well south of Africa, and back across to Australia.

Nguyen's companion PS-42 balloon has made its way to the South Pacific between New Zealand and South America.

"PS-41 and PS-42 are still in the air and will continue to be tracked in the coming days," Nguyen said. The balloons have been extensively tracked via *JT9* by a network in Australia, New Zealand, South America, South Africa, and Ireland. *WSPR* spots have as received all over the world. Dial frequencies are 10.1387 MHz and 14.0956 MHz. PS-41 is at 900 Hz, and PS-42 is at 1100 Hz on the waterfall. — *Thanks to Jim Linton, VK3PC*

Ham radio operators vital in disaster response

The Umpqua Post reports on the vital emergency communications role of amateur radio

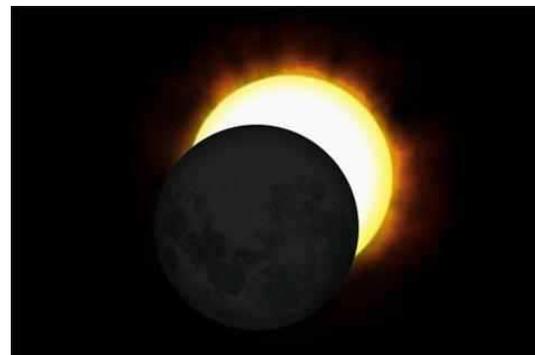
Ever since Marconi tinkered with wireless transmissions in the early 1900s, people have been fascinated with communicating via the airwaves. Today there are over 700,000 amateur radio licenses issued to private individuals in the U.S.

Amateur radio operators (also known as "hams") have played a vital role in disaster response for decades. Groups such as ARES (Amateur Radio Emergency Services) and RACES (Radio Amateur Civil Emergency Service) are well established and have good working relationships with other disaster planners.

Read the full story at

http://theworldlink.com/reedsport/opinion/radio-operators-vital-in-disaster-response/article_ad203afa-689a-5934-ab92-926965fbce93.html

Did the Eclipse Affect Propagation?



For the full 24 hours of 20th March 2015 eclipse, Derek Turner, G4SWY took world map screen shots of propagation as reported on WSPRnet.org every 4 minutes on 600, 160, 80 and 40 Meters.

He then turned the bitmaps into short videos and published them on YouTube.

MW :- <https://youtu.be/RCJvsUwdGnc>

160 Meters :- <https://youtu.be/E-OPfoNy42U>

80 Meters :- <http://youtu.be/Nt2vQAty6AQ>

40 Meters :- <http://youtu.be/mBbhN2X3bTA>

More details - <http://wsprnet.org/drupal/node/5412>

Ofcom Licence Emails

April 05, 2015 Colin Butler



Ofcom (UK) have started the process of sending the new UK amateur / ham radio licence by email.

The emails are being sent to the address that people have been entered when registering with Ofcom. It may be worth keeping an eye on your Spam folder just in case it falls foul of the Spam detector.

Where there is no email address Ofcom will write to the postal address held on file.

If new licences have not been received by 14 April 2015, the contact Ofcom at ARL2015@ofcom.org.uk or via the online licensing system.

Radio Listening Declining among Young

April 05, 2015 Colin Butler



Fewer than half of young people aged 11-15 listen to live radio on a weekly basis

Last November Ofcom (UK) published a report Digital Day 2014 focusing on the data from the young person's quantitative 3-day diary study.

The report notes that just 42% of young people said they listened to live radio during the week. Instead among those aged 11-15, listening to online or digital 'pull' content was popular. Tablets, such as iPads etc, are the most-used device among 6-11 year olds after TV sets, just 27% of that age group have a smartphone. Only 15% of those aged 11-15 now use the old text&talk non-smart phones compared with 67% of that age group who use smart phones every week.

Read Digital Day 2014: Results from the children's diary study PDF - <http://stakeholders.ofcom.org.uk/market-data-research/other/cross-media/digital-day/2014/digital-day-childrens>

An Ofcom report released on March 19 has discovered, perhaps unsurprisingly, that young people multitask read - <http://stakeholders.ofcom.org.uk/market-data-research/other/cross-media/digital-day/2014/media-multitasking>

Radio Ham Operator over the Moon at Decoding Space Message

April 05, 2015 Colin Butler



Colin Bowman M0NLP, Kent UK spoke to his local newspaper after receiving a Slow Scan TV (SSTV) picture from the International Space Station (ISS) and in doing so gained some good publicity for the hobby.

"I went mad when I realised I had decoded an entire picture. I had to e-mail my children straight away, though, as they are both licensed amateurs as well and my daughter has just started a new job in the space industry in Turin."

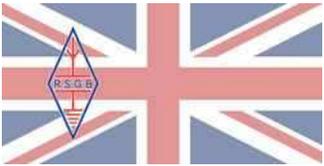
— Colin Bowman M0NLP, Kent UK

Read the full story - <http://www.courier.co.uk/Tunbridge-Wells-radio-man-moon-decoding-space/story-26160562-detail/story.html>

ISS images received by radio amateurs worldwide - http://www.spaceflightsoftware.com/ARISS_SSTV/

RSGB Youth Committee Minutes Released

April 05, 2015 Colin Butler



The minutes of the RSGB Youth Committee meeting held on 14 March 2015 have been released

In the minutes RSGB Board member Steve Hartley G0FUW indicates that in 2014-15 the level of young members in the RSGB had remained broadly constant.

The number of young members had plunged by 43% in the preceding 4 years to the low 200's. The minutes record that the increase in the average age of RSGB members has halted but it is due to older people in their 40's joining rather than younger people. In 2011 60% of RSGB members were aged 60 or over and the average membership age had been increasing one year every year so it is encouraging news that this aging trend has now stabilised. The minutes note the RSGB Board's view that the Society has money and that this money is being well spent if it furthers the hobby and brings more youngsters into the hobby. For the Wales DX15 event the Committee has secured £3900 from the RSGB and the RCF. The Youth Committee Chair Mike Jones 2E0MLJ plans to give a 30 minute presentation about the Committee's work to the RSGB AGM in London on Saturday, April 25.

Download the Youth Committee minutes -

<http://rsgb.org/main/files/2014/12/RSGB-Youth-Committee-Meeting-14-March-Minutes-PDF.pdf>

RSGB Youth Committee - <http://rsgb.org/main/about-us/committees/youth-committee/>

Youth Committee on Twitter - http://twitter.com/yota_uk

Standard General Affiliate Acquires 1743 RadioShack Stores 04/02/2015

The 1743 retail outlets that survived [RadioShack](#)'s February bankruptcy have been acquired by General Wireless Inc, an affiliate of Standard General LP. General Wireless this week received US Bankruptcy Court approval to acquire the inventory and assume the leases of the RadioShack stores. The acquisition followed an auction, conducted under the US Bankruptcy Code. The current plan calls for "co-branding" about 1440 of the surviving stores with cellular phone provider Sprint Corp.

"This has admittedly been a difficult time for all RadioShack supporters," [said](#) Soo Kim, Managing Partner of Standard General, the majority shareholder of General Wireless. "[T]his transaction is an important milestone in this storied company's history. It has allowed the company to shed stifling debts and unprofitable business lines."

RadioShack once offered entry-level short-wave receivers, Citizens Band gear, a wide array of discrete components — including transistors, resistors, and capacitors — and, for a time, a fairly popular 2 meter hand-held transceiver and two different models of 10 meter single-band transceivers.

Kim said Standard General looks forward to partnering with RadioShack's 7500 employees, its landlords, and with Sprint "to rebuild a great American company."

He said Standard General would be introducing "our talented management team" in the coming weeks. The new team would consist of both new and continuing RadioShack executives. RadioShack said its partnership with Sprint would help reposition the retailer "as the premier community destination for consumer electronics" and that stores would feature "emerging technologies that enhance the traditional accessories, DIY electronics and innovation for which the company is known."

In the near term, RadioShack has said that it expects to continue to maintain day-to-day operations at its open stores and on its website at RadioShack.com.

Ten Tec and Alpha sold to RKR

Press release at <http://tentec.com>

(April 2, 2015) RKR Designs, LLC of Longmont Colorado has announced that they have acquired the assets of Alpha Amplifier and TEN-TEC brands from RF Concepts. RKR plans to expand the product line, while continuing to service their customers that have enjoyed their products over the years.

The principals of RKR Designs are Richard Gall, Ken Long and Rich

Danielson (Gall and Danielson of QSC Systems, Longmont, Colorado have

been a successful contract manufacturer, for over 20 years). Ken Long,

N0QO has over 20 years in the electronics and amateur radio industry.

Long will be President and CEO of the new company. QSC has been building

Alpha amplifiers for over 5 years. They have also been building boards

for TEN-TEC since their purchase by RF Concepts last year. Mr. Long said

"QSC has always been a fantastic contract manufacturer, and has the expertise and knowledge that will allow us to bring down costs, while increasing quality and reducing manufacturing times."

When asked for comment, Michael Seedman, AA6DY said "I can't think of a

more capable group of people to take over the 45 year Alpha Amplifier/TEN-TEC legacy. Ken Long has been involved with the industry

for years, and has a great feeling for products and operations. He has the manufacturing and engineering resources available to deliver quality

products that our customers demand". Mr. Seedman went on to say "Alpha

and TEN-TEC have always had a warm spot in my heart, and I am thrilled

that RKR Designs will be able to continue the operations of the business. I wish them the best".

Ken, Richard and Rich have been working very close over the past several years and feel that this new relationship will benefit the company and customers moving forward. This closer relationship to the contract manufacturer will allow a more consistent process and delivery of quality products along with significant cost benefits.

RKR Designs LLC is privately held, and terms of the acquisition were not disclosed.

South Africa may transmit 1kW from 1 April.

For years HAM's in South-Africa have called for the legal power limit to be raised. The maximum output power was limited to 400 Watt PEP for decades. A workgroup was established to campaign for higher power. After negotiating for a couple of years the South African authorities was satisfied that the call for higher power was well motivated. The updated regulation was published in the South African Government Gazette in this week and the new 1kW output power privilege became effective on 1 April 2015. Some HAM's thought it to be an April fool's joke as the new law became effective, on well, April fool's day, but it was not. The new 1kW privilege was welcomed by the South-African Hamfraternity, especially among low band DX'ers and EME operators. Please point your antennas towards the bottom of Africa, there are eager ZS-HAM's just waiting to do real QRO for the first time ever.
Best 73 from ZS land, ZS6FDX. (Francois Reyneke)

[Eclipse experiments a great success](#) rsgb | March 23, 2015



The partial eclipse of the sun as witnessed from RSGB HQ on Friday, 20 March 2015.

The RSGB's solar eclipse radio experiments on Friday, 20 March were deemed a great success.

Many listeners in the UK using medium wave radios reported hearing a big increase in signal strengths from distant stations, such as BBC Radio Scotland on 810kHz, around 09.30—the time of maximum eclipse.

Meanwhile, licensed radio amateurs took part in a wide range of experiments on many bands, including a QSO party on 160, 80m and 40m.

The use of the reverse beacon network (RBN) and Morse code meant that the received signal to noise ratios of those taking part could be automatically logged.

Other stations, including some in Iceland and the Faroe Islands, used WSPR—the Weak Signal Propagation Reporter—to test propagation on paths around Europe.

All this data is now available for RSGB members to download and analyse themselves on the RSGB's [Radio Propagation Questions forum](#).

The early indications are that propagation around the UK on the lower frequencies improved as predicted as the D region of the ionosphere diminished during the eclipse.

This meant that skywave signals were not attenuated as much and were able to be returned from the higher layers, just as they are at night.

Meanwhile, propagation around the UK on the higher bands, including 5 and 7MHz, became noticeably worse as the F region declined and the critical frequency reduced.

Signals going straight up were unable to be returned back to Earth due to lower ionisation levels in the E and F regions.

Conditions returned to normal as the eclipse ended.

A lot of analysis can now be done to look at specific paths and times using the data that were collected and [Propagation Studies Committee](#) Chair, Steve Nichols G0KYA, would like to thank everyone who took part in the experiments.

A full report will appear in a future edition of [RadCom](#).

History

Radio Ham Established World War 1 Listening Post



Hippiisley Hut was a pioneering wireless station. It's now a holiday home

It is called Hippiisley Hut, named after Richard John Bayntun Hippiisley, known as Bayntun, an amateur radio enthusiast (with the call sign HLX) who worked with others to persuade the Admiralty to establish a radio station here at the start of the Great War. They argued that they were picking up more intelligence than the Marconi stations were.

Down a long, sandy track on the mouth of The Wash in north Norfolk is what remains of a First World War listening station that has become a much-loved family holiday home, now filled with the noise of raucous boys instead of the click-click of Morse. This humble hut was, in effect, the birthplace of wireless interception and all that followed.



One of the wireless operators who helped Britain win the First World War naval battle

The hut played a crucial role in the [Battle of Jutland](#). Hippisley and his team detected unusual levels of communication traffic in the German warships in Wilhelmshaven in May 1916, in time for the British fleet to head for the German Bight and be in position to intercept the German fleet.

Though there were huge losses, the Royal Navy won the battle and the German ships never left port in force again.

The hut is still the same timber construction it was in the First World War, but an installed gas central heating which warms it up in 20 minutes.

New Gear



MFJ-845/847

New MFJ Digital SWR/Wattmeters display Forward, Reflected Power, SWR and Battery life all in a single glance!

Large 1/2" forward power digits and 5/8 Reflected and SWR digits! LCD screen is 2.25 inches diagonally. Power on/off, backlight on/off switches.

Power with triple AAA battery or micro USB port. SO-239 Connectors.

MFJ-845 covers 1.6-60 MHz and handles 0-200 Watts. MFJ-847 covers 125-525 MHz and handles 0-120 Watts.

Super compact 4Wx3Hx1D inches.

Price 99,00

TYT

Model : TH-9000D



■ Frequency Range: VHF:136-174MHz 245-245.9875MHz (220-260MHz)
UHF: 400-480MHz

■ Output Power: VHF: 10W/25W/60W
UHF: 45W/25W/10W

- 8 group's of scrambler
- 1750Hz Tone
- 0-9 SQL grade setting
- High/Mid/Low power selectable
- Repeater offset shift
- Contact book
- DTMF/2 tone/5 tone
- Remote kill/ stun/ activate/ revive
- Wide/Narrow band setting
- Busy Channel Lock-Out
- Reverse frequency
- Scrambler(Optional)
- CTCSS/DCS setting & scanning
- Frequency/Channel scanning
- Voice compander
- Keypad lock function
- Battery voltage display
- ANI ID
- Emergency alarm
- TX inhibit
- Channel name editing
- Talk around
- Voice prompt
- Auto Power off

- 1.200 memory channels
- 2.FM radio
- 3.CTCSS/DCS
- 4.DTMF/2 Tone coder

TYT

Model : TH-9800



The first quad band mobile transceiver in China market.
 26-33MHz(RX/TX)(AM band RX)
 47-54MHz(RX/TX)(AM band RX)
 136-174MHz(RX/TX)
 400-480MHz(RX/TX)
 108-136(AM band RX only)
 320-399.000(RX only)
 750-950(RX only and cellular blocked)

- Quad Band Operation:29/50/144/430MHz
- V+U/V+V/U+U Dual Band Operation
- DTMF-ANI/5 Tone-ANI function
- COMP function
- DCS Encode/Decode
- 2 tone/5 tone
- Automatic power off
- Scrambler
- V+U Full Duplex Operation
- Wide/Narrow Band(25kHz/12.5kHz)
- CTCSS Encode/Decode
- Cross-Band Repeat
- 809 Memory channels
- AM Mode for Aeronautical Band(108-135.995MHz)
- Display brightness setting
- 6 Hyper Memory(store complete radio configuration)

TYT Electronics

<http://www.tyt888.com/index.html>



TYT Electronics boast 15 years of experience in two-way radio manufacture.

We offer in-house design and production service of shells, antennas, keypads and more.

Our 20 R&D engineers have ten years of industry experience on average, and most of them have worked for well-known enterprises like Kenwood and Marantz. We use state-of-the-art machines for R&D such as signal generators, HP network analyzers, RF testing machines and more.

We have our own molding factory to offer customized samples for you. And our in-house molding development ensures both prompt delivery and reliable quality. By now we have 20 models for your selection.

Our QC team consists of over 15 members with eight years of experience on average. They carry out strict tests at every step. We offer a one-year warranty for our products.

OEM/ODM orders accepted. Our 10,000-square-meter factory is equipped with six auto SMT lines from Yamaha. We can release 50,000 two-way radios every month. And your minimum order quantity of 100 units is available within seven days.

For more information about our cost-effective products, contact us today.

Ham Software

MacLoggerDX Version 5.60 released

Dog Park Software have announced that version 5.60 of MacLoggerDX has been released.

New in the latest version

- Added Yaesu FT-991 Driver.
- Added Icom IC-7850 Driver.
- Added support for TS-590 Visual Scan (requires V2 firmware).
- Added Log Edit/Delete undo/redo.
- Set WKUSB Speed Pot min/max values.
- Power changed from INTEGER to REAL in Log (milliwatts), Reports and ADIF (TX_PWR). Log updated to v7 db.
- Added Read Split Status for Yaesu FT-450, FT-950, FT-991, FT-2000, FTdx1200, FTdx3000, FTdx5000, FTdx9000 Drivers.
- Fix confirmation of QSOs close in time.

MacLoggerDX is the Total Mac Ham Radio Assistant and premier Mac logger:

Organizing and filtering the spots from your favourite DX Cluster for DXing, Contesting or casual rag-chewing.

It supports close to a hundred radios, automatically tuning to the spots you are interested in and optionally swinging your beam around.



Alerting you to rare contacts or Band Openings and looking up, displaying on 2D, 3D and Satellite Maps and logging your contacts to a super-fast sql database.

MacLoggerDX can also email you when the Bands are open or that rare DX is spotted.

Awards Tracking, Band Activity, Schedules, Memories, QSL Generation, ADIF import, export, eQSL, LoTW Confirmations and much more.

More information - <http://dogparksoftware.com/MacLoggerDX.html>

MacLoggerDX Version 5.60 released

Dog Park Software is pleased to announce that version 5.60 of **MacLoggerDX** has been released.

What's New in this version:

- Added Yaesu FT-991 Driver.
- Added Icom IC-7850 Driver.
- Added support for TS-590 Visual Scan (requires V2 firmware).
- Added Log Edit/Delete undo/redo.
- Set WKUSB Speed Pot min/max values.
- Power changed from INTEGER to REAL in Log (milliwatts), Reports and ADIF (TX_PWR). Log updated to v7 db.
- Added Read Split Status for Yaesu FT-450, FT-950, FT-991, FT-2000, FTdx1200, FTdx3000, FTdx5000, FTdx9000 Drivers.
- Fix confirmation of QSOs close in time.

MacLoggerDX is the Total Mac Ham Radio Assistant and premier Mac logger:

Organizing and filtering the spots from your favourite DX Cluster for DXing, Contesting or casual rag-chewing.

It supports close to a hundred radios, automatically tuning to the spots you are interested in and optionally swinging your beam around.

Alerting you to rare contacts or Band Openings and looking up, displaying on 2D, 3D and Satellite Maps and logging your contacts to a super fast sql database.

MacLoggerDX can also email you when the Bands are open or that rare DX is spotted.

Awards Tracking, Band Activity, Schedules, Memories, QSL Generation, ADIF import, export, eQSL, LoTW Confirmations and much more.

This is a free update for all Version 5 customers and can be downloaded from: <http://dogparksoftware.com/MacLoggerDX.html>



Hi All,

I have two quick announcements today...

Michigan QSO Party In State 3.4 is Now Available!

I just got late word that the MIQP folks have changed the DX multipliers to count 1 multiplier per mode. I've updated the software accordingly. This change only affects the in state version of the software.

As always, upgrades are free to registered users. You'll find version 3.4 here: <http://www.n3fjp.com/stateqsoparty.html>

And the steps to upgrade here:

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

Enjoy!

Rookie Roundup SSB Reminder!

Rookie Roundup SSB starts this Sunday, 18:00 UTC and runs for six hours. A Rookie is defined as having been first licensed in the current calendar year or the previous two calendar years, regardless of license class.

Experienced operators (Non Rookies) are strongly encouraged to participate too. Not all Rookies may be comfortable running a frequency, so experienced operators should call CQ Rookies. Rookies call CQ Rookie Roundup. All the details are here: <http://www.arrl.org/rookie-roundup>

My Rookie Roundup software is free for everyone. A password isn't required and there is no cost for the Rookie Roundup software whatsoever, so please enjoy it and encourage your Rookie friends to do the same! You'll find the Rookie Roundup software here: <http://www.n3fjp.com/rookiearu.html>

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

Hi All,

I have several announcements to share!

New Logging Programs for Worked All Europe, All Asian DX and Oceania DX Contests are Now Available!

These programs include all the features you've come to expect in N3FJP Software including dupe checking, scoring, DX spotting, rig interface, super check partial, sending CW, Cabrillo output, etc. Best of all, you'll likely find them very easy and intuitive to use!

As always, additional programs I add to the N3FJP Software Package are free to N3FJP Software Package users. Just e-mail Kimberly and me direct and we will send you passwords for the new programs!

You'll find the new programs here:

Worked All Europe Contest Log 1.0:
<http://www.n3fjp.com/wae.html>

All Asian DX Contest Log 1.0: <http://www.n3fjp.com/asian.html>

Oceania DX Contest Log 1.0: <http://www.n3fjp.com/oceania.html>

State QSO Party Programs for Alabama and Kansas are Now Available!

Programs for both in state and out of state users for the Alabama and Kansas QSO Parties are now available! As always, these additional programs are free to N3FJP Software Package users! Just enter the state QSO party password we sent with your package list and you will be all set!

You can download the new programs here:
<http://www.n3fjp.com/stateqsoparty.html>

Enjoy!

Over 100 Stations are Now Participating in our Worked All States / Counties QSO Party Contest!

We now have over 100 stations participating in our annual, year long, Worked All States / Counties QSO Party Contest! If you haven't already joined us in the fun, please do! Just get on the air and call CQ Counties! You'll find all the details here:

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

Please help spread the word to your ham friends and local club!

BUY, SELL, or SWAP

Hamfests & Events

06/12/2015 | [West Gulf Division Convention \(Ham-Com\)](#)

Location: Irving, TX

Type: ARRL Convention

Sponsor: Plano ARC, Dallas ARC, & Irving ARC

Website: <http://www.hamcom.org>

07/18/2015 | [Tidelands Hamfest](#)

Location: Texas City, TX

Type: ARRL Hamfest

Sponsor: Tidelands Amateur Radio Society

Website: <http://tidelands.org>

08/07/2015 | [South Texas Section Convention \(Austin Summerfest 2015\)](#)

Location: Austin, TX

Type: ARRL Convention

Sponsor: Austin ARC and Texas VHF-FM Society

Website: <http://www.austinsummerfest.org>

10/31/2015 | [South Texas Hamfest](#)

Location: Aransas Pass, TX

Type: ARRL Hamfest

Sponsor: South Texas Amateur Radio Club

Website: <http://www.southtexashamfest.org>

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)
- 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)
- Simplex Frequency - 146.500 MHz
- Echolink - KD5OXM-L

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)

Net Control Schedule

- March
 - 04 Rebekah / Wil
 - 11 Wil / Rebekah
 - 18 Michael
 - 25 Rebekah / Wil
- April
 - 01 Wil / Rebekah
 - 08 Michael
 - 15 Rebekah / Wil

- 22 Wil / Rebekah
- 29 Michael

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

NFLARC Scheduled Club Meetings

May 1, 2015

NFLARC Dues **Time:** Untimed event

May 9, 2015

NFLARC Lunch **Time:** 12:00pm - 1:00pm

NFLARC Meeting **Time:** 1:00pm - 3:00pm

June 13, 2015

NFLARC Lunch **Time:** 12:00pm - 1:00pm

NFLARC Meeting **Time:** 1:00pm - 3:00pm

July 11, 2015

NFLARC Lunch **Time:** 12:00pm - 1:00pm

NFLARC Meeting **Time:** 1:00pm - 3:00pm

August 8, 2015

NFLARC Lunch **Time:** 12:00pm - 1:00pm

NFLARC Meeting **Time:** 1:00pm - 3:00pm

September 12, 2015

NFLARC Lunch **Time:** 12:00pm - 1:00pm

NFLARC Meeting **Time:** 1:00pm - 3:00pm

October 10, 2015

NFLARC Lunch **Time:** 12:00pm - 1:00pm

NFLARC Meeting **Time:** 1:00pm - 3:00pm

November 14, 2015

NFLARC Lunch **Time:** 12:00pm - 1:00pm

NFLARC Meeting **Time:** 1:00pm - 3:00pm

December 12, 2015

NFLARC Lunch **Time:** 12:00pm - 1:00pm

NFLARC Meeting **Time:** 1:00pm - 3:00pm

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 (access Hill County repeater)
- **Thurs.**
 - 7:00p 146.78 LWARS Training Net
 - 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)

- ± Microwave Spring Sprint 0800-1300 local, May 2
- ± ARI International DX Contest 1200Z, May 2 to 1159Z, May 3
- ± 7th Call Area QSO Party 1300Z, May 2 to 0700Z, May 3
- ± Indiana QSO Party 1600Z, May 2 to 0400Z, May 3
- ± Delaware QSO Party 1700Z, May 2 to 2359Z, May 3
- ± New England QSO Party 2000Z, May 2 to 0500Z, May 3 and 1300Z-2400Z, May 3
- ± RSGB 80m Club Championship, SSB 1900Z-2030Z, May 4
- ± MIE 33 Contest 2300Z, May 4 to 0300Z, May 5
- ± ARS Spartan Sprint 0100Z-0300Z, May 5
- ± CWops Mini-CWT Test 1300Z-1400Z, May 6 and 1900Z-2000Z, May 6 and 0300Z-0400Z, May 7
- ± NRAU 10m Activity Contest 1700Z-1800Z, May 7 (CW) and 1800Z-1900Z, May 7 (SSB) and 1900Z-2000Z, May 7 (FM) and 2000Z-2100Z, May 7 (Dig)
- ± NCCC RTTY Sprint 0145Z-0215Z, May 8
- ± NCCC Sprint Ladder 0230Z-0300Z, May 8
- ± VOLTA WW RTTY Contest 1200Z, May 9 to 1200Z, May 10
- ± CQ-M International DX Contest 1200Z, May 9 to 1159Z, May 10
- ± F9AA Cup, PSK 1200Z, May 9 to 1200Z, May 10
- ± SKCC Weekend Sprintathon 1200Z, May 9 to 2400Z, May 10
- ± FISTS Spring Sprint 1700Z-2100Z, May 9
- ± 50 MHz Spring Sprint 2300Z, May 9 to 0300Z, May 10
- ± CWops Mini-CWT Test 1300Z-1400Z, May 13 and 1900Z-2000Z, May 13 and 0300Z-0400Z, May 14
- ± RSGB 80m Club Championship, Data 1900Z-2030Z, May 13
- ± NCCC RTTY Sprint 0145Z-0215Z, May 15
- ± NCCC Sprint 0230Z-0300Z, May 15
- ± His Maj. King of Spain Contest, CW 1200Z, May 16 to 1200Z, May 17
- ± Feld Hell Sprint 1600Z-1759Z, May 16 and 2000Z-2159Z, May 16
- ± WAB 7 MHz Phone 1000Z-1400Z, May 17
- ± Run for the Bacon QRP Contest 0100Z-0300Z, May 18
- ± CWops Mini-CWT Test 1300Z-1400Z, May 20 and 1900Z-2000Z, May 20 and 0300Z-0400Z, May 21
- ± NAQCC CW Sprint 0030Z-0230Z, May 21
- ± RSGB 80m Club Championship, CW 1900Z-2030Z, May 21
- ± NCCC RTTY Sprint 0145Z-0215Z, May 22
- ± NCCC Sprint Ladder 0230Z-0300Z, May 22
- ± EU PSK DX Contest 1200Z, May 23 to 1200Z, May 24
- ± Baltic Contest 2100Z, May 23 to 0200Z, May 24
- ± SKCC Sprint 0000Z-0200Z, May 27
- ± CWops Mini-CWT Test 1300Z-1400Z, May 27 and 1900Z-2000Z, May 27 and 0300Z-0400Z, May 28
- ± UKEICC 80m Contest 2000Z-2100Z, May 27
- ± NCCC RTTY Sprint 0145Z-0215Z, May 29
- ± NCCC Sprint Ladder 0230Z-0300Z, May 29
- ± CQ WW WPX Contest, CW 0000Z, May 30 to 2359Z, May 31
- ± SARL Digital Contest 1300Z-1600Z, May 31

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

May 2015

- ± NCCC RTTY Sprint 0145Z-0215Z, May 1
- ± NCCC Sprint Ladder 0230Z-0300Z, May 1
- ± AGCW QRP/QRP Party 1300Z-1900Z, May 1
- ± 10-10 Int. Spring Contest, CW 0001Z, May 2 to 2359Z, May 3
- ± SBMS 2.3 GHz and Up Contest and Club Challenge 0600 local, May 2 to 2359 local, May 3

DX News

GB1STG - St George's Day



Members of the Chelmsford Amateur Radio Society (CARS) will be operating **GB1STG** to mark St George's Day, the Patron Saint of England on Thursday, April 23

Using the popular location of Galleywood Common, the CARS team will be hoping for good weather as it's truly a "field event".

The Common was the site of an artillery fort during the Napoleonic Wars and today boasts 175 acres with several open spaces (and free parking) to play radio - directions here: <http://goo.gl/maps/ysbCz>

It's expected that a 40m SSB station will be active for much of the event along with higher bands (and other modes) subject to conditions - This is also the first /P club event of the year and with 2 Foundation Courses since last October, it will give those newly-licensed in Essex a chance to see how effective a simple portable setup can be.

All are welcome, and there will be help and advice on equipment, aerials as well as the chance to use a special-event callsign in the sunshine. Plus, if you are thinking of trying out some "portable" this summer, the May CARS meeting sees Charlie M0PZT give a talk on "Operating Portable".

Chelmsford Amateur Radio Society website:

<http://www.g0mwt.org.uk/>

Last year's GB1STG event:

<http://www.m0pzt.com/?gb1stg>

[Camb-Hams to Operate from Isle of Mull](#)

Ten members of the Camb Hams are returning to Grasspoint IO76EJ on the Scottish island of Mull (IOTA EU-008) from 15-21 May 2015 as GS3PYE/P



Camb-Hams operating from Isle of Mull 2012

They will be QRV with multiple stations on HF on 3.5-28MHz SSB, CW, RTTY and PSK with dipoles and verticals and up to 400W if necessary.

VHF activity will be on 50MHz, 70MHz and 144MHz, all bands QRO with sizeable antennas.

VHF will be mainly QRV using JT6m or ISCAT on 50MHz, FSK441 on 70MHz and FSK441 and JT65b (for EME) on 144MHz, but SSB and CW is also possible, especially in any sporadic E propagation openings. Other modes by agreement.

Satellite operations on 2m & 70cm will use an Icom IC-910 and X-Quad antennas mounted on a fully automatic AZ/EL tracking system. If internet connectivity allows, the VHF operators will monitor ON4KST Chat for terrestrial activity and N0UK JT65 chat for EME. You can submit your VHF sked requests online -

<http://tiny.cc/g3pyesked>

The team will be QRV in the 80m CW CC event on the 21st and in the 144MHz contest on the 16th and 17th. They may do very short side trips to Iona and the Treshnish Islands and will announce these nearer the time on the website.

Please QSL only via OQRS on ClubLog for direct or bureau cards. Do not send any cards direct or via the bureau.

For the latest info -

Twitter- <http://twitter.com/g3pye>

Facebook - <http://facebook.com/CambHams>

YouTube - <http://youtube.com/CambHams>



LINKS

QRZ now

<http://qrznow.com/>

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



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



<http://www.repeaterbook.com>

SILENT KEYS



Mrs Corley (Bob Corley's {SK} wife) passed away this afternoon 4-13-2015



Kathryn Corley

FYI

- NFLARC Club Dues are due every May

Ham Radio Glossary

F

F region -- A combination of the two highest ionospheric regions, the F1 and F2 regions. The F region refracts radio waves and returns them to Earth. Its height varies greatly depending on the time of day, season of the year and amount of sunspot activity.

False or deceptive signals -- Transmissions that are intended to mislead or confuse those who may receive the transmissions. For example, distress calls transmitted when there is no actual emergency are false or deceptive signals.

Feed line -- The wires or cable used to connect a transmitter, receiver or transceiver to an antenna. See Transmission line.

Filter -- A circuit that will allow some signals to pass through it but will greatly reduce the strength of others.

Final-- 1) The final tube(s) or transistors in an amplifier - - "I just put new finals in this transmitter and I'm getting a lot more power output." 2) The last transmission in a contact before signing off - - "OK this will be my final for now, see you again next time".

Frequency -- The number of complete cycles of an alternating current that occur per second.

Frequency bands -- A group of frequencies where amateur communications are authorized.

Frequency coordination -- Allocating repeater input and output frequencies to minimize interference between repeaters and to other users of the band.

Frequency coordinator -- An individual or group that recommends repeater frequencies to reduce or eliminate interference between repeaters operating on or near the same frequency in the same geographical area.

Frequency discriminator -- A type of detector used in some FM receivers.

Address Book

Frequency modulated (FM) phone -- The type of signals used to communicate by voice (phone) over most repeaters. FM is a method of combining an RF carrier with an information signal, such as voice. The voice information (or data) changes the RF carrier frequency in the modulation process. (see Amplitude modulation). As you might suspect, we use voice or data to vary the frequency of the transmitted signal. FM broadcast stations and most professional communications (police, fire, taxi) use FM. VHF/UHF FM voice is the most popular amateur mode.

Frequency privilege -- Permission to use a particular group of frequencies.

Front-end overload -- Interference to a receiver caused by a strong signal that overpowers the receiver RF amplifier ("front end"). See also receiver overload.

Fuse -- A thin metal strip mounted in a holder. When too much current passes through the fuse, the metal strip melts and opens the circuit.

- 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,
- 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

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Director (2yr): Kevin M - KW5MOS

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Ken P K5KCP,

Rebekah M - K5RCM

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Doug S - KE5CDK