



SPURIOUS EMISSIONS

INDIAN
RIVER ARC

JANUARY, 2018

P.O. BOX 237285, COCOA
FLORIDA 32923-7285

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K4UZM

NEWSLETTER EDITOR

ARMANDO DELGADO
KN4JN

President Dave KU0R began the meeting at 1930 with the Pledge of Allegiance.

Following the Pledge, visitors KD3WKJ, KM4HHU, WB2LOB and guest Selina West were introduced.

No ailing members were identified.

Dave told the group the November meeting minutes were printed in the newsletter. A motion was heard to approve the minutes, then a second and the minutes were approved by acclamation.

Treasurer, Larry KK4WDD, reports that we have \$1079.38 in checking and \$1277.33 in the equipment fund. A motion was heard to accept the Treasures report for audit, a second was heard and the report was approved by acclamation.

Viron N4VEP reported as Vice President and reminded the audience of the NBEMS exercise on Sundays. Viron also reported that the ARES net has checked out the 88 repeater, and hopes that all active repeaters will be tested for emergency functionality.

President Dave reported for the Technical Committee that all repeaters are up and running and that the 220 repeater is working very well

and may reach into Orlando. The 88 repeater had been receiving passive intermods due to rust at the antenna site, but these disappeared after the antenna was refurbished. Dave also discussed the problems with the Yaesu Fusion repeaters: a big mess that for now the club will not have to worry about.

Upcoming events: QRP group active on the 20th of January, but the location needs to be determined; check the club web site for more info. Orlando Hamcation [February 9th - 11th](#). Steve N4UTQ, representing the Red Cross, described the activities of the Red Cross support for Puerto Rico and the California fires. He also mentioned that rumors of the Red Cross Rockledge building being sold are unfounded. A side discussion erupted over a tower obtained by the club previously for the Red Cross and now uninstalled and what to do with it: The tower belongs to the Red Cross and they will decide what to do with it.

New Business: Dave K4UZM reported that we need to plan for radio equipment for the Wuesthoff Hospital radio room, which we agreed would become the Central Net in emergencies. Dave KU0R replied that we would discuss this at the

next board meeting, sometime before the Orlando Hamcation, to decide what equipment would be best to have at that location.

Prior to the 50-50 Larry recognized Shofu KN4GEI for donating \$200 to the equipment fund.

50-50 drawing went to Brad KW1P.

A question was raised about putting all the new equipment on the insurance policy and the answer was yes the new equipment is covered.

Following the business meeting a short interesting video was shown about the planet Venus.

A motion to adjourn occurred at 2017 and was moved and approved.

Respectfully Submitted,

Steve Luchuk Secretary

HAPPENINGS

"Hand-Held Transceiver Antennas" is the topic of the December 21 episode of the "[ARRL The Doctor is In](#)" podcast.

"Keeping Cool – the importance of maintaining proper equipment temperature" is the topic of the latest (January 4) .

The [ARRL International Grid Chase 2018](#) starts January 1, 2018 and runs during all of 2018.

Florida State Convention (Orlando HamCation)

Start Date: 02/09/2018
End Date: 02/11/2018
Location: Central Florida Fairgrounds

4603 West Colonial Drive
Orlando, FL 32801

Website: <http://www.hamcation.com>

Sponsor: Orlando Amateur Radio Club

Talk-In: 146.76 (no PL tone during hamfest)

Public Contact: John Knott ,
N4JTK
PO Box 574962 Orlando, FL
32857

Phone: 407-841-0874
Email: info@hamcation.com

From Jeff Beals, WA4AW ARRL Southern Florida Section Manager:

Looking forward to a great 2018 in the SFL Section. With the holidays behind us, we can get back in the swing of ham radio activity. Some New Year resolutions for

HAPPENINGS

your consideration:

1. Get on the air with your favorite bands or try a new one !
2. Mentor a new ham, especially a young ham !
3. Support your local club and ARES group
4. Try your hand at some contesting and DXing
5. Help out at your local VE exam session
6. Participate in your club's Field Day
7. Try a new mode: CW, AM, Digital, Satellite, Weak signal, DMR, etc.
8. Check in on a net.
9. Attend a hamfest

10. And most of all, have fun with ham radio.

Second Annual AM Rally Special Event Set for February 2-4 .

The [AM Rally website](#) includes tips and suggestions for various transmitter types as well as links to additional information. Certificates will be awarded for most states contacted and most contacts overall made by stations in five power-output classes. The AM Rally gets under way at 0000 UTC on Saturday, February 3, and concludes at 0700 UTC

on Monday, February 5. Bands include 160, 80, 40, 20, 15, 10, and 6 meters.

[AL2C](#). Alabama will celebrate its 200th anniversary in 2019, and AL2C will be on the air for 2 years as part of the statewide celebration

The deadline is January 31, 2018 to submit ARRL Foundation Scholarship applications. All applicants must be FCC-licensed radio amateurs, and many scholarships have other specific requirements, such as intended area of study, ARRL Division, Section or state,

and license class. Applicants should review the scholarships and check off the ones for which they are eligible. [More information](#) is on the ARRL Foundation Scholarship Program page.

ON THE AIR

01/13/2018 | State of Florida Constitution Convention Commemorative Special Event

Jan 13, 1400Z-2020Z, W4FFC, Port Saint Joe, FL. Gulf Amateur Radio Society. 7.177 Mhz 14.275 Mhz 21.275 Mhz 14.075 (digital); 28.375 Mhz . QSL. Norm Bixler, K4NEB, 2003 Cypress Ave, Port Saint Joe, FL 32456. All stations desiring a QSL Card, please send your card and a #10 size SASE(self addressed self stamped) envelope. No small envelopes, please.

02/03/2018 | Space Shuttle Columbia Special Event

Feb 3-Feb 4, 1500Z-2200Z, K5C, Nacogdoches, TX. Nacogdoches Amateur Radio Club. 21.350 14.270 7.220. QSL. Nacogdoches Amateur Radio Club, 167 CR 2093, Nacogdoches, TX 75965. All contacts will be confirmed via LOTW. Special QSL card available for-SASE. w5nac.com

Amateur Radio station ZC4A will be active from UK Sovereign Base Area, Cyprus 24 - 31 January 2018.

Erich, HB9FIH informs dxnews.com, that he will be again active from El Hierro Island, Canary Islands, IOTA AF-

004, 12 December - end of March 2018 as EA8/HB9FIH.

REPUBLIC OF KOREA, HL. Special event call DT23WOP is QRV until February 28, 2018 during the Winter Olympic Games that will be held here. QSL via HL1IWD.

SVALBARD, JW. Morten, LA4JSA is QRV as JW4JSA from Bear Island, IOTA EU-027, until June 1, 2018 while on work assignment. Activity is in his spare time on the various HF bands. QSL to home call.

Radio Amateurs members of FGC Radio Team, will be active as E31A, from **Eritrea**, 14 - 23 January 2018. Team - Zorro JH1AJT, Franz DJ9ZB, Dima RA9USU, Yan RZ3FW, Champ E21EIC. They will be on 160 - 10m CW, SSB, RTTY.

3Y0Z. International Team will be active from **Bouvet Island**, IOTA AN - 002, in 2018 as 3Y0Z. Planned dates 20 January - 28 February 2018 (will be determined by vessel schedule). They will operate on 160 - 10m and also 6 and 2m EME.

01/13/2018 | USS Midway Museum Ship Special Event: Desert Storm Kickoff
Jan 13, 1700Z-2359Z, NI6IW, San Diego, CA. USS Midway (CV -41) Museum Ship. 14.320 7.250; PSK31 on 14.070; D-STAR on REF001C. QSL. USS Midway (CV-41) COMEDTRA, 910 N Harbor Drive, San Diego, CA 92101.

A trip to **The Gambia** in February by students and staffers of Sandringham School in the UK will include a short DXpedition. The call sign C5DX again has been granted and will be on the air February 9-16. C5DX will operate split (up 1 kHz for CW, up 5 kHz for SSB) and will attempt to upload their logs to LoTW and Club Log while they are in The Gambia. They also hope to update their QRZ page during the DXpedition.

IRELAND, EI. Special event station EI00MCV is QRV during all of 2018 to commemorate the 100th anniversary of the sinking of Royal Mail Ship Leinster that took place on October 10, 1918. QSL via bureau.

HAITI, HH. Special event station HH70A is QRV until June 30, 2018 to celebrate the 70th anniversary of the Radio Club d'Haiti. QSL via W3HNK.

JAPAN, JA. Special event station 8J7HCB will be QRV from January 1, 2018 to May 31 to draw attention to the 100th Hiroasaki Cherry Blossom Festival. QSL direct to JK7LXU.

ANTARCTICA. Alex, UA1OJL will be QRV as RI50ANO from Bellinghshausen Base on King George Island, IOTA AN-010, from January 1, 2018 to March 31. Activity will be on the HF bands using CW, SSB and various digital modes. QSL via RN10N.

INDIA, VU. Members of the West Bengal Radio Club will be QRV as AU2WBR from Ganga Sagar Mela/Sagar Island, IOTA AS-153, from January 1, 2018 to March 31. QSL via VU2NRO.

FUJI, 3D2. Jim, WB2TJO is QRV as 3D2JS from Taveuni Island, IOTA OC-016, until March 13. Activity is on 80 to 6 meters using CW, SSB and some digital modes. QSL to home call.

The Band Edge- How Close is Too Close? By Duane Traver, WV2B

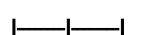
It was a situation heard all too often. In fact, it can be heard almost every contest. A DX station calls "CQ Contest" on 14349 KHz. Strings of US stations answer and exchange the contest exchange. But in addition another voice can be heard.

Besides the stations exchanging contest reports another voice rings out- "You're out of band stupid, don't you know the rules." Some contesters are bewildered, doesn't the band go to 14350? Others are argumentative- *I am not out of band*, they contend.

Obviously the mystery voice is not handling things in a proper manner. After all, if the stations he is condemning are out of band so is he. In addition, he is not identifying his transmissions. But why do these arguments keep erupting? Does this guy know what he's talking about?

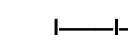
The Rule

If the band goes to 14350 KHz, then contesters can just set their dials to that frequency and operate - right? Wrong! The crux of the matter is found in FCC rule 97.307, which reads in part: "Emissions resulting from modulation must be confined to the band or segment available to the control operator." What must be taken into consideration is the fact that the frequency displayed on the radio's digital display is the carrier frequency. A suppressed-carrier single-sideband signal is considered to be 3 KHz wide. So, for an USB signal to be confined to the 20 Meter Amateur band, the frequency displayed on the transceivers digital dial should not be higher than 14347. That may even be too close unless the transmitted signal is attenuated by at least 40 dB at 3 KHz. Of course, the same goes for a LSB signal transmitted near the lower end of a band or segment. Please see illustrations A and B below for help visualizing the situation.

USB Signal


347 14350 353

A. USB signal transmitted with dial frequency of 14350 KHz.

LSB Signal


147 7150 153

B. LSB signal transmitted with dial frequency of 7150 KHz

So, the fellow telling all the contesters that they were out of band was right! But, is it a big problem? Obviously more education is needed on this particular rule. In the 2001 ARRL DX phone contest one Dx station was heard running US stations on 14349 KHz. in excess of 5 hours straight with a steady stream of US callers. Most were Extra class licenses.

Although certainly the majority of these callers didn't realize they were violating an FCC rule, the action could result in an FCC warning, ARRL OO notice, or perhaps an argument from a frustrated fellow contestator as mentioned at the outset of this article. Since all contesters who submit a log sign a statement that they have followed their country's Amateur regulations they should be willing to take this rule into consideration and modifying their operation as needed.

In addition, contesting ethics are involved. What if a station finds a clear running frequency by operating too close to the band edge, while his competitor perhaps fails to find a run frequency out of respect for this regulation? Or what if a multiplier is counted by working a station calling too close, while other stations don't get the multiplier because they

want to obey the rules? Perhaps such situations are part of what causes our mystery stations to vent their frustrations. I hope you find this article of help in your contesting efforts. Further information about this particular FCC rule can be found on page 4-34 of the ARRL's "FCC Rule Book." See you in the contests.



W1AW CW PRACTICE TRANSMISSIONS

7 PM EST Slow CW : 5-15 WPM
 Mon, Wed, Fri

7 PM EST Fast CW: 35-10 WPM
 Tue, Thu

FREQUENCIES: 1.8025,
 3.5815, 7.0475, 14.0475,
 18.0975, 21.0675, 28.0675,
 50.350, 147.555

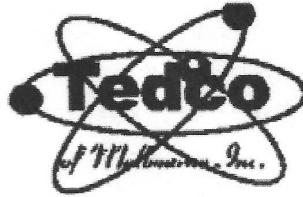


Editor's Note:

Send comments about the Newsletter or to contribute information or articles to the Editor's email address:

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