



INDIAN RIVER ARC

P.O. BOX 237285, COCOA
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VOLUME XLVI, NUMBER 12

SPURIOUS EMISSIONS

DECEMBER, 2024

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HAPPENINGS

The club celebrated our annual Christmas dinner this year on December 5, held at the Red Lobster restaurant on Merritt Island.

Many members and their spouses participated and all enjoyed a great time of conversation and togetherness during this time of festivity.

25th Annual SKYWARN Recognition Day December 7, 2024 The annual event is celebrating its 25th anniversary. There will be a SRD special event from 0000 – 2359 UTC on the day. The objective is for all amateur stations to exchange QSO information with as many Amateur Radio SKYWARN Spotters and National Weather Service Stations as possible on the 80, 40, 20, 15, 10, 6, 2-meter and 70-centimeter

bands. ARRL will be on the air during the event from the ARRL Radio Laboratory station, W1HQ, using the call sign WX1AW. Spotters are encouraged to register for SRD at <https://www.weather.gov/crh/skywarnrecognition>. There will be participation certificates available after the event.

Santa Claus will be on the ama-

teur radio airwaves again this year. The 3.916 Santa Net will be on the air every night at 7:00 PM CST from November 29 through December 24. Reserve a spot with Santa by making a pre-net check in. You can check in each night starting at 6:30 PM CST online at www.CQSanta.com.

HAPPENINGS

Amateur radio operators ages 25 and younger will be on the air as special event stations around the world throughout December in celebration of **Youth on the Air (YOTA)** Month in amateur radio. YOTA Month stations will be on all bands and modes at various times. QSL and award information is at events.ham-yota.com. Last year, young hams worldwide surpassed their goal of 100,000 QSOs in the month of December with a final tally of 103,788. More information about YOTA Month specifically in the Americas can be found at YouthOnTheAir.org, including a link to all YOTA station spots on DXSummit.com. Overlapping with YOTA Month is round 3 of the YOTA Contest, which is on December 30, 2024, from 1000 to 2159 UTC.

A Transcontinental NBEMS Net – There is a new experimental net to train hams in message handling. The Transcontinental NBEMS Net has been meeting every Tuesday at 9 PM ET. They regularly check in stations from all across the country, typically using 20 meters (14,068 kHz) during Daylight Saving Time and 40 meters (7068 kHz) during standard time using FLDIGI – typically with the Olivia 8/500 mode – for the nets and message passing. We have a [groups.io](https://groups.io/g/transcontinental-nbems-net) page at <https://groups.io/g/transcontinental-nbems-net>

Radiogram Portal Website is a web-based application that allows hams and non-hams alike to utilize the National Traffic System to move messages from one point to

another. Developed by Jonathan Taylor, K1RFD, author of Echolink, the Portal introduces the capabilities of the NTS and provides the ability to enter a message into the system. Messages converted into radiogram format by the software are then retrieved by authorized traffic handlers (“radiogrammers”) for entry into the NTS. These messages also provide third-party radiograms for practice in formal message handling and net operation. They have approximately 70 applicants authorized to become “radiogrammers”. Check out the website, <https://nts2.arrl.org/radiogram/>, and give it a try.

Santa Claus will be on the amateur radio airwaves again this year. The 3.916 Santa Net will be on

the air every night at 7:00 PM CST from November 29 through December 24. Reserve a spot with Santa by making a pre-net check in. You can check in each night starting at 6:30 PM CST online at www.CQSanta.com. Santa and Mrs. Claus will also be on the air, together, thanks to special arrangements with the Cowley County Amateur Radio Club in Kansas. They will be on the air on the 147.000 repeater and the Sunflower Net system, between 10 AM and noon CST on November 30 and beginning at 10 AM until band conditions change on December 14 and 21. In addition to the local repeater, the Sunflower Net offers connection options to Allstar, DMR, Dstar, Echolink, Fusion, Hamshack Hotline, M17, and P25.

ON THE AIR

Re-enactment of the First Trans-Global Two-Way Radio Communication Sep 5-Dec 26, 0000Z-2359Z, ZM100DX, Many locations, NEW ZEALAND. Radio Society of Great Britain and New Zealand Association of Radio Transmitters (Otago Branch). All bands and all modes depending on operator availability. QSL. See website, for information, NEW ZEALAND. www.gb2nz.com

W2W Pearl Harbor Day Commemoration Dec 1-Dec 11, 1300Z-2200Z, W2W, Hunt Valley, MD. Amateur Radio Club of the National Electronics Museum (ARCNEM) . 14.241 14.041 7.241 7.041. Certificate & QSL. ARCNEM, 338 Clubhouse Road, Hunt Valley, MD 21031. Amateur Radio

Club of the National Electronics Museum (ARCNEM) will operate W2W in commemoration of the anniversary of Pearl Harbor Day and the role of electronics in WWII. Primary operation will be Dec 1-Dec 7 with additional operation possible during the Dec 8-Dec 11 period as operator availability permits. Operation on 80M (3.541, 3.841) and digital modes possible during event. Frequencies +/- according to QRM. QSL and Certificate available via SASE; details at <https://ww-2.us/>

Wright Brothers First Flight Dec 17, 1400Z-2100Z, W8W, Bellbrook, OH. Bellbrook Amateur Radio Club (BARC). 7.217 14.317 21.317; all bands, all modes. Certificate. WrightFlight-BARC, E-certificate only, email WrightFlight@bellbrookarc.org, OH

45305. <https://bellbrookarc.org/wp>

19th Annual Straight Key Month Jan 2-Jan 31, 0000Z-2359Z, K3Y, Ellicott City, MO. SKCC - Straight Key Century Club. 3.550 7.055 14.050 21.050. Certificate & QSL. SKCC c/o Ted Rachwal - K8AQM, 6237 Twin Lakes Drive, Kimball, MI 48074. K3Y/0 thru 9 plus KH6, KL7, KP4 and DX member stations in six WAC areas operating straight key, bug and cootie keys. QSL card confirms one QSO per area, up to 19 for all-area sweep. See URL for op sched/map, stats, etc. <https://www.skccgroup.com/k3y>

Flight 19, The Lost Avengers Dec 7, 1300Z-2100Z, K4P,

Fort Lauderdale, FL. Parrot Amateur Radio Club Inc. 14.240 7.210 18.150 21.315. QSL. Gerald Deitch, 2621 nw 105 lane, Fort Lauderdale, FL 33322. fogdaddy1@gmail.com

VP2VMM Team will be active from **Anegada Island**, British Virgin Islands, IOTA NA - 023, 9 - 17 December 2024. Team - K2KW, AG9A, KD4D, K5PI. They will operate on HF Bands, including activity in ARRL 10m Contest. Outside the contest they will be active as VP2V/K2KW, VP2V/AG9A, VP2V/KD4D, VP2V/K5PI. QSL via KU9C, LOTW, ClubLog OQRS.

Radiosports by Armando Delgado, KN4JN

The ARRL likes to refer to amateur radio contesting as radiosport. The Merriam Webster Dictionary defines a sport as a “source of diversion or recreation, a physical activity engaged in for pleasure, a particular activity (such as an athletic game) so engaged in”. Amateur radio contesting certainly is a diversion and recreation that requires skill but some may argue that sitting in front of a radio is not a physical activity. Most likely those who carry that impression have never participated in an amateur radio contest, particularly a long one lasting a day or so. Amateur radio contesting may not require physical exertion, but it requires physical endurance.

Most ham operators participate in a radio contest at one time or another; however, the participation level of amateurs in contests actually follows the shape of the classical bell-shaped curve of statistics.

On one extreme end there are a few amateurs who occasionally take part in a contest. They may join their club during Field Day or another club radio activity and partake in making some contacts. They may even try their hand at some major contest from their shack and also make a few contacts. Yet, these hams lack the skills required to enjoy contesting, due to their infrequent participation. As a rule, they use the Search and Pounce (S&P) technique in looking for contacts, but their timing is off in making their call since they have not refined the skill of listening for the pattern and timing of the station calling CQ so as to know the precise moment of making a call. They call repeatedly and make an occasional contact, but after a while they become discouraged and give up, so never learning the necessary skills.

The great majority of radio amateurs comprise the center portion of the bell-shaped curve. These hams engage in radio contests frequently, some more than others, and possess the skills needed to make contesting enjoyable. For

them, contesting is a pastime in which they compete mostly against themselves, trying to improve their scores of past years or previous contests. They do not seek the large number of contacts required to win a contest, or spend hours hunting for multipliers that will enhance their score. They have modest stations running barefoot and simple antennas. Also, although they may spend several hours sitting at their radios, they do not push the envelope of endurance and stop when tired.

At the other extreme end of the curve are the contest “professionals”. Although they do not make any material gain from radio contests, these hams dedicate their lives to contesting. Their shacks are designed for contesting. Their radio equipment generally consists of the higher end transceivers designed for contesters that include a built-in separate receiver. They use amplifiers so that they can call CQ and dominate their frequency of choice while at the same time being able to reach stations far and wide. Needless to say, their antennas are all high gain beams perched on tall towers and their wire antennas operate at the ideal height that gives them the maximum gain. These hams enter contests to win. They want the highest scores possible and break previous record scores, if they can.

These hams mastered the art and the skills of contesting. Many will use the technique called SO2R (Single Operator 2 Receivers) using which they listen to two separate receivers simultaneously by rigging their stereo headphones so that each ear receives the sound from a different radio. On one radio they call CQ in their dominant frequency while in the secondary receiver they S&P looking for other stations call-

ing CQ. On hearing a station calling CQ in their S&P receiver, they wait for a break in their own CQ radio, quickly switch frequencies, place a call to the other CQing station and then return to their controlled frequency to continue making contacts. This technique allows the contester to maximize the number of contacts they can achieve during any given time. To make the SO2R method efficient requires computer assistance using a logging program that controls the radios and allows switching frequencies with a touch of a button on the keyboard.

Amateur radio contesting is an increasingly popular activity, one that requires skill, experience, and endurance, but that is enjoyable, as proved by the large number of hams who partake in them.



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, 18.0775, 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:

olardelga@aol.com.

ACTIVE REPEATERS INCLUDING DMR, PACKET & SIMPLEX							RACESBRE0008 REV B
Repeaters & Packet are open for all licensed amateur radio operators to use.							
OUTPUT FREQ.	STD. NAME	OFFSET	TONE/CC	CALL	LOCATION	OWNER	NOTES
WBFM							
145.130	130 VB	-600	107.2	AB4AZ	VERO BEACH, INDIAN RIVER	AB4AZ	
145.350	350 SC	-600	103.5	K4OSC	St. CLOUD, OSCEOLA	K1XC	Radio Science Club, FI Club
145.370	370 CO	-600	156.7	W2SDB	COCOA-BROADCAST CT.	IRARC	Yaesu Repeater replaced with Bridgecom FM
145.470	470 ME	-600	107.2	K4HRS	MELBOURNE- RIALTO PL.	HIRAC	
145.490	490 TI	-600	100.0	WN3DHI	TITUSVILLE SR405 & Fox lk rd.	WN3DHI	
146.610	610 ME	-600	None/107.2	W4MLB	MELBOURNE- HOLMES HOSP	PCARS	Tone Downlink only
146.625	625 MM	-600	100.0	KE4NUZ	NW of MIMS NEAR HARRISON RD.	KE4NUZ	Limited coverage
146.775	775 MM	-600	100.0	K4KSC	NW of MIMS Hog Valley , W of I95	K4KSC	
146.850	850 ME	-600	None/107.2	W4MLB	PALM BAY- Port Malabar Rd.	PCARS	Tone Downlink Only
146.880	880 RO	-600	107.2	W4NLX	ROCKLEDGE- WUESTHOFF HOSP.	IRARC	FUSION Repeater replaced with Bridgecom F
146.895	895 PB	-600	107.2/107.2	K4EOC	PALM BAY- DeGroot Library	EOC	TSQL as of 5/2018
146.910	910 TI	-600	107.2	K4KSC	TITUSVILLE Water Tower on south st.	TARC	
146.940	940 RO	-600	None	K4GCC	ROCKLEDGE Carver Rd.WLRQ Tower	LISATS	
146.970	970 TI	-600	107.2	K4KSC	TITUSVILLE-T'VILLE TOWERS	TARC	
147.075	075 SC	+600	107.2/107.2	K4EOC	SCOTTSMOOR Near US1-Aurantia Rd	EOC	TSQL as of 5/2018 Relocated 4/2019
147.135	135 RO	+600	107.2/107.2	K4EOC	ROCKLEDGE-EOC	EOC	TSql as of 5/2018
147.240	240 DE	+600	123.0	KV4EOC	DELAND	VARES	
147.255	255 PB	+600	107.2	K4DCS	Near Babcock & Palm City S City limi	PBARC	
147.330	330 TI	+600	107.2	K4NBR	TITUSVILLE-PARRISH HOSP.	NBARC	
147.360	360 TI	+600	107.2	N4TDX	TITUSVILLE-PARRISH HOSP.	NBARC	DSTAR Gateway in work
442.850	850TI4	+5000	107.2/107.2	N4TDX	TITUSVILLE-PARRISH HOSP.	NBARC	TSql;FUSION/WBFM/WIRES-X
444.325	325ME4	+5000	107.2	K4DCS	MELBOURNE-TRINITY TWRS-E	PBARC	
444.375	CNLBRE	+5000	107.2		I95 FDT Twr 1/2 Mile N of County Lin	SARNET	"SARNet Sebastian Repeater"
444.425	425ME4	+5000	107.2	W4MLB	MELBOURNE- RIALTO PL.	PCARS	
444.525	525RO4	+5000	103.5/103.5	K4EOC	ROCKLEDGE-EOC	EOC	TSql; VOICE/NBEMS
444.650	CNMBRE	+5000	107.2	W4NLX	COCOA-FHP SR520	IRARC	"SARNet Cocoa Repeater"
444.750	750TI4	+5000	156.7/156.7	N4TDX	TITUSVILLE- TGO WATERTOER 230 ft.	NBARC	TSql
444.875	875MI4	+5000	107.2	KC2UFO	MERRITT IS. COURTNEY SPRS.	K4UJZM	
444.925	925KS4	+5000	131.8/131.8	N1KSC	KENNEDY SP. CTR.-VAB	KSCARC	FM Tsql ; P25 capable
224.120	120CO2	-1600	123.0	AA4CD	COCOA Broadcast Ct.	AA4CD	
DMR							
444.150	150TI4	+5000	CC1	K2JO	TITUSVILLE-PARRISH HOSP.	KC2CWT	DMR FL
444.575	575CO4	+5000	CC3	K4DJN	COCOA BROADCAST CT.	AA4CD	DMR Brandmeister
444.675	675TI4	+5000	CC3	K4DJN	TITUSVILLE-T'VILLE TOWERS	AA4CD	DMR Brandmeister
ATV							
427.250	250CO4			K4ATV	COCOA BROADCAST CT.	LISATS	NTSC INPUT 439.25 See www.lisats.org
PACKET STATIONS:							
145.090	WL2KPB	WINLINK		W2PH-10	PALM BAY-W2PH QTH	PBARC	WINLINK GATEWAY
145.090	090 ME	PCARS		W4MLB-2	MELBOURNE-TRINITY TWRS-EAST	PCARS-K1YON	BBS W4MLB-4 EASTNET
145.770	770 PB	SEDAN		K4EOC-7	PALM BAY	N2DB	http://www.fla-sedan.com
145.770	770 TI	SEDAN		KD4MWO-4	TITUSVILLE	N2DB	INACTIVE NODE
BREVARD RACES/ARES SIMPLEX							
146.480	CENTX	SIMPLEX		N/A	CENTRAL REG	IRARC	CENTRAL NET SIMPLEX BACKUP
146.550	SOUTHX	SIMPLEX		N/A	SOUTH REGION	PBARC	SOUTH NET SIMPLEX BACKUP
146.580	MLBX	SIMPLEX		N/A	MELBOURNE REGION	PCARS	MELBOURNE REGION NET SIMPLEX BACKUP
146.595	NORTHX	SIMPLEX		N/A	NORTH REGION	TARC	NORTH NET SIMPLEX BACKUP
147.540	EOCROX	SIMPLEX		N/A	RACES Bay	EOC	EOC VOICE/NBEMS
SIMPLEX							
146.520	CALL52	SIMPLEX		N/A	Station to station, anywhere		VHF national simplex calling freq
146.490	TAC A	SIMPLEX		N/A	Station to station, anywhere		Standardized tactical option since 2006
146.560	NBRX	SIMPLEX		N/A	NBARC -Club/Parrish Hosptial Activities		
146.580	TAC B	SIMPLEX		N/A	Station to station, anywhere		Standardized tactical option since 2006
147.420	TAC C	SIMPLEX		N/A	Station to station, anywhere		Standardized tactical option since 2006
147.420	IRARCX	SIMPLEX		N/A	IRARC "FUN NET" and CLUB ACTIVIES		
147.450	TAC D	SIMPLEX		N/A	Station to station, anywhere		Standardized tactical option since 2006
147.570	TAC E	SIMPLEX		N/A	Station to station, anywhere		Standardized tactical option since 2006
446.000	CALL46	SIMPLEX		N/A	Station to station, anywhere		UHF national simplex calling freq
446.500	TAC A4	SIMPLEX		N/A	Station to station, anywhere		Standardized tactical option since 2006
446.600	TAC B4	SIMPLEX		N/A	Station to station, anywhere		Standardized tactical option since 2006
446.700	TAC C4	SIMPLEX		N/A	Station to station, anywhere		Standardized tactical option since 2006
2 Meter & 70 cm WBFM repeaters use CTCSS; if one frequency is listed it is for uplink (user Tx) , if two are listed the repeater is set for uplink and downlink (user Tx and Rx)							
Repeater Call Signs in bold are owned by Brevard Emergency Management and are maintained by the county. Repeater Trustee: Ron K2RJ							
NOT ON AIR							
Standard Names in Bold are recommended for Emergency Radio in Brevard *							
PBARC= Palm Bay Amateur Radio Club (Replaces DCS for South Brevard) See Ed W2PH for more info							