



SPURIOUS EMISSIONS

INDIAN RIVER ARC

JANUARY, 2024

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

CLUB MINUTES

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HAPPENINGS

[Winter Field Day](#) (WFD) this year will be during the weekend of January 27-28, 2024. It starts at 2:00 pm on Saturday and lasts 24 hours. The objective of WFD is to serve as an EMCOM exercise to allow stations to operate in environmental conditions different from the summer counterpart event.

The event has four *Categories*: Home, Indoor, Outdoor, and Mo-

The meeting was called to order by President Steve Luchuk, N4UTQ at 7:17 PM.

Following the Pledge of Allegiance, Steve called for visitors.. Kirk, KD9REK announced that he was here from Wisconsin.

President's Report: Steve mentioned that the Winter Field Day event will be held on Saturday, January 27 at the clubhouse. The event's operations start at 2:00 PM, but preparations will begin earlier in the day, time to be announced later.

Next, Steve mentioned that the club's Emergency Coordinator had left the club. Presently, Steve, Viron, N4VEP and Dave, KUOR are performing the EC's functions, but if a club member wants to volunteer for the position, he would be welcomed.

Treasurer's Report: the current main account balance is \$1475.25 and the Equipment Fund is unchanged at \$1903.65. The Treasurer's Report was approved for audit.

Next, the minutes of the November, 2023 meeting were approved.

bile. The difference between Home and Indoor is that Home is the regular home station and Indoor is operating from inside a structure away from the regular station.

There is also a *Class* designation based on the number of transmitters in use, just like the summer Field Day.

The exchange includes the call-

Technical Committee's Report: Dave, KUOR stated that all the repeaters are working. There is still an issue with the 145.37 MHz repeater controller changing the time clock randomly. Dave suspects it is due to the high RF environment of the repeater site and he has some plans to try to identify the cause and resolve the issue.

Past President Report: Viron, N4VEP mentioned that there will be a QRP event on Saturday, January 20 at Osteen Park on Merritt Island. The activity will start at 10 AM but Viron may be there at 9:00 AM if the weather is good. Activities should last until 2:00 PM.

Following the business meeting, Steve gave a presentation on EMP, defined as a short surge in electromagnetic energy covering all frequencies. Of concern are high altitude EMPs, or HEMPS, generated by nuclear blasts in the stratosphere. To demonstrate the effect of such an event, the United States in 1962 exploded a nuclear device at an altitude of 400 Km over Johnston Island in the Pacific. That explosion caused an EMP that affected electrical

systems in many adjacent islands, including Hawaii. Presently, it is believed that a nuclear EMP would affect most electronic devices and power systems within its range. Theoretical projections suggest that an EMP from a device detonated over Omaha, Nebraska at a height of 298 miles would affect the entire USA.

Steve next showed equipment manufactured by a company called EMP Shield that claims to protect electronics from EMP surges, including radios, vehicles, homes, and power generators. After some discussion, the consensus of those present was that these devices will not work.

After the presentation, Viron, N4VEP said that Sandy, AK4BZ (SK) had donated some equipment to the club to be auctioned off. He listed the equipment and suggested those interested to make offers.

The meeting adjourned at 8:04 PM.

Respectfully submitted,
Armando Delgado, KN4JN,
Secretary

Orlando, FL 32801

sign, the class, the category and the location- which for US stations is the ARRL Section.

Detailed rules can be found [here](#).

The [Orlando Hamcation](#) will be on February 9-11, 2024 at Central Florida Fairgrounds, 4603 W. Colonial Dr.

The Federal Communications Commission (FCC) published new rules adopted last month that replace the symbol rate restrictions for digital modes on the HF bands with a bandwidth limit of 2.8 kHz. The new rules go into effect January 8, 2024. The bands and band segments affected by the rules change

HAPPENINGS

are those authorized for data transmission between 160 and 10 meters, exclusive of 60 meters (where no change was made).

[The US Islands \(USI\) Awards Program](#) is an amateur radio award program centered around chasing and activating river, lake, and ocean shore islands within the US and its territories and protectorates. USI is offering a special 30th Anniversary Award for hunters and activators from January 1 to December 31, 2024.

ADIF stands for "Amateur Data Interchange Format" and is useful when contact log information needs to be exchanged between different applications, or processed by websites. ADIF has had many revisions over

the years; one can keep current on the current and past standards via the ADIF website:

<https://www.adif.org.uk/>.

A new dxpedition, **DX5S**, to **Clipperton Island** will become active from January 19 to February 1, 2024. The group will sail from San Diego, California on January 11 for a 6 day trip to the island. The course of the ship can be tracked in the internet through a link at the group's website, dx5s.net. The group plans to operate while in transit using the callsign N6WM/MM. For details of the operation check the group's website.

Clipperton Island is on longitude 109 W which makes it 2 hours earlier than EST. Propagation should be excellent in the higher bands during the day and on 40m and 80m at night, specially right before our sunrise.

Like all dxpeditions their operation will use split mode. In SSB, invariably their listening frequency will be 5-10 KHz above their transmit frequency, and most experienced operators will shift frequency after each contact to avoid the pile-up. There will be pile-ups along with the jerks and lids that invariably plague these operations. Working this dxpedition will be a challenge, but a great lesson in split operations and working pile-ups.

From The NTS Letter for January 3, 2024
The Working Group on Updated Access and Delivery Methods has been putting the finishing touches on a project called The Radiogram Portal. It's a new website that introduces Radiograms to the general public and provides an easy

way for the public to submit messages that can be originated as formal traffic. Details of the website will be forthcoming.

ClubLog's 10 most wanted countries:

1. P5 DPRK (NORTH KOREA)
2. BS7H SCARBOROUGH REEF
3. CEOX SAN FELIX ISLANDS
4. BV9P PRATAS ISLAND
5. KH7K KURE ISLAND
6. KH3 JOHNSTON ISLAND
7. FT/G GLORIOSO ISLAND
8. 3Y/P PETER 1 ISLAND
9. FT5/X KERGUELEN ISLAND
10. YVO AVES ISLAND

ON THE AIR

Lee Jackson Celebration Feb 10, 1730Z-2200Z, N4SCV, Gainesville, FL. Sons of Confederate Veterans Camp 1424. 7.214 MHz 14.314 MHz. QSL. Ron Lewis, KN4ZUJ, 14714 NW 144th Street, Alachua, FL 32615. We look forward to talking with you. See you on the air on February 10th! VY 73, Madison Starke Perry Camp 1424 Sons of Confederate Veterans
www.gatorscv.com

10 Year Countdown to the 100th Anniversary of the Discovery of Pluto Feb 11-Feb 19, 0000Z-2359Z, W7P and W7P/O, Flagstaff, AZ. Northern Arizona DX Association. 7.290 14.090 14.290 21.290. Certificate & QSL. W7P c/o NADXA, 6315 Townsend Winona Rd., Flagstaff, AZ 86004.
www.nadxa.com

Engineer's Week at Collins Aerospace Feb 18-Feb 24, 1700Z-1900Z, WOCXX, Cedar Rapids, IA. Collins Amateur Radio Club. 7.180

MHz 14.263 MHz 21.380 MHz 28.380 MHz. QSL. Engineer's Week at Collins Aerospace SES, 1110 Lyndhurst Dr, Hiawatha, IA 52233. Note: The times are during lunch break however there may be times outside of what is specified that club members may operate during these days especially Sunday (18th) and Saturday (24th). <https://www.qrz.com/db/WOCXX>

Dry Tortugas & The Florida Keys 2024 Feb 19-Feb 29, 0000Z-0000Z, N4T, Mount Joy, PA. Molly & Friends. 14.336; SSB, CW, FT8/FT4, and satellites. QSL. Molly Sauder, 1509 Pinkerton Rd, Mount Joy, PA 17552. Here's your chance for a rare grid as well as ARLHS, IOTA, POTA, USI and WLOTA. We plan to be on air using SSB, CW, FT8/FT4 and satellites. Spot via POTA & DX Summit. mollyandfriends6@gmail.com

Igor, RQ8K will be active as RI1ANE from Progress Station, IOTA AN - 016, **Antarctica**, 14 December 2023 - till May 2025.

He will operate on HF Bands. QSL via RQ8K, LOTW. For direct QSL: Igor Taranenko, Entuziastov street, 22B, appt. 8, Noyabrsk, 629806, Russia. Progress is a Russian (formerly Soviet) research station in Antarctica. It is located at the Larsemann Hills antarctic oasis on the shore of Prydz Bay.

SAINT BARTHELEMY, FJ. Phil, K2LIO is QRV as FJ4WEB and plans to be QRV until August 15, 2024. QSL to home call.

ANTARCTICA. David, VK2JDS is QRV as VK0DS from Davis Base until November 2024. Activity is in his spare time on the HF bands, as well as 2 meters, and 23 centimeters using EME. QSL direct to

home call.

INDIA, VU. A group of Indian operators are QRV as AT8T4S until January 24, 2024 from the historic city of Palakkad. QSL via VU3WEW.

The **ARRL International DX Contest CW** portion will be on the third full weekend in February, **February 17-18, 2024**. This is a fun contest with a brief exchange and a chance for many DX contacts. More details [here](#).

CROATIA, 9A. Special event station 9A100RKZ is QRV during all of 2024 to celebrate the 100th anniversary of the Radioklub Zagreb. QSL via 9A1ADE.

HAITI, HH. Members of the Radio Club d'Haiti are QRV as HH220Y until January 31 to celebrate the 200th anniversary since the declaration of the former colony's independence. QSL via N200.

Parks on the Air by Armando Delgado, KN4JN

Parks on the Air (POTA) is a relatively new amateur radio activity in the USA that is rapidly gaining popularity thanks in part to the American branch of the international POTA organization that through its [website](#) coordinates the activities and participation of amateurs in the program. The purpose of POTA is to encourage radio amateurs to operate from national and state parks in order to practice emergency communications techniques and to expose amateur radio to the public. POTA is not affiliated with the ARRL, but is rather a non-profit, independent organization.

POTA classifies operators into two categories: activators and hunters. Activators are the folks who go to a park to operate. Most activators operate on weekends, but some stay in the parks for extended periods of time, so that POTA stations can be found on the air daily. If the park activator operates from a POTA listed park and is registered in the POTA website, the website will publish his activation with details as to his location, frequency, mode of transmission and when active. The website also has a link listing planned activations, showing the dates and times of operation. If the activator submits a log of his operation, then the stations that contacted him will be credited with the activity.

Hunters on the other hand are any licensed amateur that contacts a POTA station. If the hunter registers with the POTA website, then he will be credited with the contacts and qualify for multiple awards that POTA provides, according to certain criteria. POTA has separate awards for activators and hunters.

Joining POTA is free of charge, registration in the website is simple, and the only personal information requested are name and callsign.

In the United States and its territories POTA has 10796 registered

parks; of those 443 are found in Florida and 13 in Brevard County. Registered parks receive a coded designation that consists of a letter followed by three to four digits. In the USA, the letter is "K". For example, the Merritt Island Wild Life Refuge is a listed park and has the designation K-0249. Other countries use a letter designator based on that country's radio callsign prefix; for example, Canada is "C", England, "G", and so forth. The POTA website has a map locator that shows all the listed parks in any given area.

Invariably, park activators will send their callsign and then "POTA" while calling CQ. The exchanges vary; some activators will send a signal report and the name of the park, others only the coded designation of the park, and some only their state, leaving it up to the hunter to find out the details of their location in the POTA website. The more abbreviated exchanges generally happen in CW and the digital modes, like FT8 and FT4, which are popular with many activators. The hunters as a rule will send a signal report and their state.

POTA does not designate any bands or modes of operation. The activators are free to choose how they will operate. However, since most park activations are QRP, the preferred modes are the old standbys of CW and SSB, although FT8 and FT4 are being increasingly used because of their low power requirements and because many operators use computers for their logging of contacts.

Since POTA is an international organization, it has branches in many countries. Contacts with DX POTA stations will be referred to the respective hunter's POTA website, so that the hunter will be credited with that contact. Registered hunt-

ers can find a personal log in the website listing all their contacts in the USA with details of dates, mode, callsign, and respective park names. Another link for overall statistics of the hunter shows all his credited contacts, including international ones. The latter also includes details of the contacts, but needs some navigation to find them.

With the increasing popularity of the POTA program, amateurs are eager to make contacts with active stations. Regularly, most POTA stations will develop a pile-up when on the air. Like any pile-up, achieving a contact requires patience and the right timing to place one's call. Also, propagation, frequency and time of day will determine if the POTA station can hear individual calling stations. Most activators are experienced operators and whether on CW or SSB generally they perform very well.

POTA contacts are an amateur radio challenge since most station's signals are weak and the hunter most deal with pile-ups and propagation issues; yet, like with most challenges, success can be very rewarding.



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



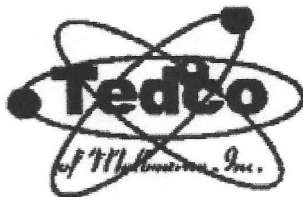
Editor's Note:

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

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	SCOTSMOOR 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		195 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	W12KPB	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 user 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							

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