



INDIAN RIVER ARC

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

VOLUME XLVI, NUMBER 2

SPURIOUS EMISSIONS

FEBRUARY, 2020

CLUB MINUTES

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N4VEP

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KUOR

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KK4WDD

DIRECTOR

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K4UZM

NEWSLETTER EDITOR

ARMANDO DELGADO
KN4JN

Call to Order
19:30
Pledge of Allegiance lead by President, Viron Payne, N4VEP
Secretary report was printed in the newsletter by Armando, KN4JN
Motion to accept by Greg Oneal, AG4DO, seconded and then voted on and accepted.
Treasurer's Report by Treasurer Larry Henderson,
Members Present: 16 + 1 Guest, Danny Burdick KE4OZD,
Correction from last meeting: The dues start date will be January 2021.
Dues will be \$20.00 individual and \$30.00 for families.
Budget info: Dave provided most of the money for the equipment in the shack.
Equipment insurance to be defined since we need a complete inventory to know what we will have to insure.
Viron presented a new budget.
Greg Oneal presented a motion to approve the budget that will be corrected for the year. Voted on and approved.
BEARS Report by Viron N4VEP:
Migration of Antennas to new tower complete, but with problems. The 444.525 MHz antenna was damaged and will be replaced.
ARES Report: Les, not available.
Red Cross Report by Viron: Red

Cross will be relocated by 17th February to 8245 Deveraux Dr, Melbourne FL. Viron did not know if they will have space for the 47 MHz Red Cross Radio. He will discuss it with the Red Cross.
New club Meeting Location: Starting in March we will meet at Merritt Island Public Library on Courtney from 3/5/2020 thru 6/4/2020 on the First Thursday at 19:00 to 19:45. If we run over that time there is a \$60.00 Fee
Location of Radio Equipment is undetermined
Upcoming events: Hamcation 2/7/2020 thru 2/9/2020
QRP 2/15/2020: location undetermined.
MS Walk 3/21/2020
Technical Report by Dave Lerrett, KUOR.
All repeaters are operating. Need to box up the equipment in the shack, Dave will store the equipment at his house. Need to get the antennas down in near future.
Inventory needed of all the repeater sites and what Dave has at his storage location.
Chris Durso stated that he will take care of the inventory at the repeater locations, and the low noise amplifiers are working very good.
Volunteers needed for a work party

on Sat 2/15/2020 at 09:00 AM to remove the antennas and cable from the Red Cross building.
Digital Net instructions and practice will be on Sunday at NBEAMS testing and practice Feb 29 10:30 at Jess Parrish Hospital.
Technical presentation by Chris Durso He showed the filters that are used at the Repeater sites. With his test equipment he showed the effect of the filter on the spectrum Analyzer.
And showed how the circulator protects the transmitter in case of an antenna failure. He also demonstrated the two types of cavity filters used for the receiver and transmitter, band reject and band pass.
Radio Operation Center location is not known at this time.
The ARES Simulated Emergency Test will be April 11 at 09:00 AM. JDRF May 16 2020.
Adjourned at 20:45
Respectfully submitted: Ernest Hoffman, K1CPO Secretary

HAPPENINGS

The first — and so far only — beacon on 60 MHz went on the air on December 16. The call sign is EI1KNH. In early 2018, the 60 MHz (5-meter) band was allocated to radio amateurs in Ireland on a secondary, non-interference basis. The beacon is on 60.013 MHz and runs 25 W into a vertical folded dipole. The new 5-meter beacon is sharing a site already occupied by EI0SIX on 6 meters, and EI4RF on 4 meters, about 12

miles south of Dublin in IO63VE. An 8-meter beacon is scheduled to be on the air in the next few months. It will operate on 40.013 MHz.
The number of Sections needed for a clean sweep in the ARRL November Sweepstakes (SS) will rise to 84 in 2020, with the addition of a new Prince Edward Island (PE) Section. Radio Amateurs of Canada (RAC) announced

this week that the new Section will become effective on April 1.
Anderson Power Plugs has a [catalogue online](#) that details all their products.
Free ARRL Events App Now Available for Apple iOS and Android Devices. The ARRL Events app, which will be featured at Orlando HamCation, is now

available for both Apple iOS and Android devices. It can be downloaded at the App Store.
The ARRL West Central Florida Section is marking its 20th anniversary this year. The Section newsletter, the [WCF Presser](#), includes information on celebratory activities. A K4WCF special event in January will activate all 10 of the Section's counties, with addi-

HAPPENINGS

tional K4WCF special events later in the year.

ARRL's new *On the Air* podcast debuted, January 16, with a new podcast posted each month. The podcast is a companion to the new bi-monthly *On the Air* magazine. *On the Air* magazine podcast and the magazine are aimed at offering new and beginner-to-intermediate-level radio amateurs a fresh approach to exploring radio communication. Listeners can find the *On the Air* podcast at [Blubrry](#), [Apple iTunes](#) (or by using your iPhone or iPad podcast app (search for *On the Air*), and [Stitcher](#) (or through the free Stitcher app for iOS, Kindle, or Android devices). [Episodes](#) will be archived on the ARRL website. The biweekly *Eclectic Tech* podcast for experienced

radio amateurs will launch on February 13. Hosted by QST Editor Steve Ford, WB8IMY, *Eclectic Tech* will highlight topics involving amateur and non-amateur technology, offer brief interviews with individuals involved in projects of interest to amateurs, and include practical information of immediate benefit to today's hams. *Eclectic Tech* will be available via [iTunes](#) and [Stitcher](#).

Iowa State Parks on the Air ([IASPOTA-2020](#)) is under way and will continue through year's end. The event is sponsored by the Great River Amateur Radio Club. According to Colin Wheatley, W9UPK, Iowa had the first state park system in the nation, and Iowa's first state park, Backbone State Park, was dedicated in 1920. Stations logging contacts with five of Iowa's state parks during the year-long celebration can request a certificate by sending a legal-size

self-addressed, sealed envelope to IASPOTA-2020 c/o Great River Amateur Radio Club, P.O. Box 1384, Dubuque, IA 52004.

Those wanting to master the iambic paddle may find this video useful: <https://youtu.be/c59rtL67yWw>

You Tube has an Interesting video addressing the problem of HF antennas for small lots: <https://youtu.be/wY0JdrJOpok>

The **State QSO Party Challenge** is a competition comprised of other contests, namely state and provincial QSO parties. Participants just need to submit their QSO party scores to 3830scores.com to enter the challenge. Participants' cumulative scores will be calculated by totaling up the number of reported contacts and multiplying

by the number of SQPs entered in the year to date. The first SQPs in 2020 are the Vermont, Minnesota, and British Columbia QSO Parties in the first weekend of February. Full details are available on [the State QSO Party Challenge](#) website.

ARRL's Committee on Communication with Members has launched three new online discussion forums as part of its ongoing efforts to enhance and improve communication between ARRL leadership and members or prospective members. The new forums, which focus on antenna law, regulatory issues, and support for new amateur radio licenses, will go live on Thursday, January 30, at 0400 UTC. More details [here](#).

ON THE AIR

NCDXA 5th Annual Worked All RST Special Event Jan 1-Feb 28, 0000Z-2359Z, KL7RST, Anchorage, AK. North Country DX Association (K7ICE). 14.250 14.075 7.190 7.050. QSL. J. Reisenauer, 2573 Old Georgetown Rd. W., Kershaw, SC 29067. www.qrz.com/db/kl7rst

2020 Daytona 500 Feb 12-Feb 16, 0000Z-2359Z, N4DAB, Daytona Beach, FL. Daytona Beach CERT Amateur Radio Team. 14.255 14.076 7.255 7.076. Certificate & QSL. Steve Szabo, 536 Central Park Blvd, Port Orange, FL 32127-1136. n4dab.com

SES H L Hunley Commemorative Station N4HLH Feb 17, 1400Z-2100Z, N4HLH, Charleston, SC. Trident Amateur Radio Club. 14.262 USB 7.262 LSB 7.117 CW. QSL. Larry Gatton, PO Box 60732,

Charleston, SC 29416. <http://tridenthams.org/hunley.htm>

Bernhard, DL2GAC will be active as H44MS, from **Malaita Island**, IOTA OC - 047, **Solomon Islands**, 5 February - 20 April 2020. He will operate on 80 - 6m SSB.

Roland, F8EN will be active as FR/F8EN from **Reunion Island**, IOTA AF - 016, 23 January - 18 February 2020. He will operate on HF Bands, CW only.

Donald, VE7DS will be active as E51DDG from **Rarotonga Island**, IOTA OC - 013, 2 - 14 February 2020. He will operate on 40, 30, 20, 17m, CW only.

Manu Codas, ZP9MCE will be active from **Paraguay** in ARRL DX CW Contest, 15 - 16 February 2020. He will operate in SO Category. QSL via EA5ZD, LOTW.

The Perseverance DX

Group's **DXpedition to South Orkney**, set for February 20 until March 5, will use the call sign VP8PJ.

The Deutscher Amateur Radio Club (DARC) this year is honoring 35 years of software-defined radio (SDR) technology with special call sign and special DOK. A special event station **DL35SDR** will be active from the greater Munich area throughout 2020.

Saint Kitts Island. W5JON will be active again from Saint Kitts Island, IOTA NA-104, 21 February - 5 March 2020, as V47JA. He will operate on 160 - 6 m (Including 60m).

T17W Team will be active from **Costa Rica** in ARRL DX CW Contest, 15 - 16 February 2020. Team - G3WPH, G4IRN, KY7M. Before and after contest, 10 - 17 February 2020, they will be active as T17/G3WPH, T17/G4IRN,

T17/KY7M. QSL for T17W via W4FS.

Aruba. Lee, K3DMG will be active from Aruba, IOTA SA - 036, starting 17 January - end of February 2020, as K3DMG/P4. He will operate on 80 - 10m.

Ghana. Matteo, IZ4YGS will be active as 9G5GS from Ghana, 1 - 26 February 2020. He will operate on 160 - 20, mostly FT8 and SSB.

Mexico

The members of the the **DXE Group**, through-out the 2020 year, will celebrate its 15th anniversary with the activation of the special call sign **4A15DXE**, from January 20th, until December 31st, 2020. Activity will be on all bands and modes especially in contests, special events, via satellite and EME from different Grid Locators in Mexico.

The 20 Meter Band by Armando Delgado, KN4JN

The 20 meter band is the most popular amateur HF band, and for good reason. This band enjoys a wavelength short enough not to suffer from absorption in the D layer during the day and long enough to still be refracted from the ionosphere, even in low sun cycles and at night. This allows propagation in this band day and night on most days, and because it enjoys F-layer propagation, it is reliable for DX.

Due to its popularity or perhaps because of its versatility, the FCC reserved this band for hams with licenses rated General or higher. Current Technician licensees can operate in the 80, 40, 15, and 10m bands, although they are allowed only CW transmissions in the lower bands and limited phone privileges as well as CW in the 10m band. Obtaining privileges in the 20m band traditionally has been an incentive for hams to upgrade their licenses.

The 20m band provides consistent, predictable, and reliable DX communications, which makes it the favorite of the most important international and emergency nets. Here one finds on a regular basis the Maritime Net, which is extremely popular with navigators worldwide, plus many other nets representing emergency and non-emergency interests. During hurricanes and other disasters the Hurricane Watch Net and the SATERN Net of the Salvation Army, which carries most of the Health and Welfare traffic in and out of the affected areas, will operate in this band (for a complete listing of these nets go to <http://www.arrl.org/arrl-net-directory-search>).

Most of these nets use SSB transmissions, although some also use digital modes. This is also the favored band for dxpeditions, so that when that rare DX offering once-in-a-lifetime QSO becomes active, this is the band that gives the best chance for a contact, if one has the patience to deal with the pile-ups.

One other benefit of this band is that its wavelength makes it convenient for antennas. A 1/2-wavelength in this band is only 30 feet. A dipole antenna 30 feet long will easily fit in most backyards or houses, and a dipole antenna at a 1/2-wavelength height will produce that nice low angle radiation lobes essential for DX contacts. Not only that, but those desiring a tower and beam antenna can erect a reliable radiator without spending an arm and a leg, or raising a tower that requires a large real estate to allow for guy-wires.

The 20m band covers the frequencies from 14,000-14,350 KHz. It is the third largest amateur HF band, being dwarfed by the 2 MHz size of the 10m band and being only 100 KHz shorter than the 15m band. The FCC band plan allots the lower 150 KHz of 20m to digital transmissions, most of which is CW. The true digital activity is concentrated in a narrow window between 14,050 KHz and 14,100 KHz, though.

The upper 200 KHz of the band is assigned to SSB, as well as SSTV and FAX transmissions.

All in all, for hams interested in DX operations, the 20 meter band is the best one all around, especially during the low solar cycle.



UPCOMING CONTESTS

Feb 10-14 ARRL/LIMARC [Spring School Club Roundup](#)

Feb 15-16 [International DX CW Contest](#)

[South Carolina QSO Party](#)
1500Z, Feb 29 to 0159Z, Mar 1

Mar 7-8 [International DX Phone Contest](#)



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



W1AW QUALIFYING RUNS

Amateur radio operators who participate in Qualifying Runs may submit proof of 1 minute of the highest speed they have copied in the hope of qualifying for the Certificate of Code Proficiency, or an endorsement to their existing Certificate.

For information about how to qualify for the Certificate of Code Proficiency, please visit www.arrl.org/code-proficiency-certificate.

Editor's Note:

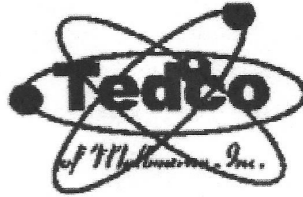
Send comments about the Newsletter or to contribute information or articles to the Editor's email address:

olardelga@aol.com.

W1AW Code Proficiency Schedule — February 2020 (All times in Eastern Standard Time)				
Monday	Tuesday	Wednesday	Thursday	Friday
2/3 4 PM – 2100Z 10 – 35 WPM	2/4 7 PM – 0000Z (2/5 – UTC) 35 – 10 WPM		2/6 10 PM – 0300Z (2/7 – UTC) 10 – 40 WPM	2/7 9 AM – 1400Z 10 – 35 WPM
	2/11 4 PM – 2100Z 10 – 35 WPM	2/12 7 PM – 0000Z (2/13 – UTC) 10 – 40 WPM	2/13 9 AM – 1400Z 35 – 10 WPM	2/14 10 PM – 0300Z (2/15 – UTC) 10 – 35 WPM
Presidents Day	2/18 9 AM – 1400Z 10 – 35 WPM	2/19 10 PM – 0300Z (2/20 – UTC) 35 – 10 WPM	2/20 7 PM – 0000Z (2/21 – UTC) 10 – 35 WPM	2/21 4 PM – 2100Z 10 – 40 WPM
2/24 10 PM – 0300Z (2/25 – UTC) 10 – 40 WPM		2/26 9 AM – 1400Z 35 – 10 WPM	2/27 4 PM – 2100Z 35 – 10 WPM	2/28 7 PM – 0000Z (2/29 – UTC) 10 – 35 WPM

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 1k 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	W4NXL	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	TSqI;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	TSqI; VOICE/NBEMS
444.650	CNMBRE	+5000	107.2	W4NXL	COCOA-FHP SR520	IRARC	"SARNet Cocoa Repeater"
444.750	750TI4	+5000	156.7/156.7	N4TDX	TITUSVILLE- TGO WATERTOER 230 ft.	NBARC	TSqI
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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CALRAD
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CELLPHONE AMPS
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