



SPURIOUS EMISSIONS

INDIAN RIVER ARC

AUGUST, 2020

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ARMANDO DELGADO
KN4JN

CLUB MINUTES

The meeting via Zoom was called to order by President Viron, N4VEP at 7:15 PM. The Pledge of Allegiance followed. Next was the Treasurer's Report: Equipment Fund: \$1778.50; General Fund: \$783.39; Total Account \$2561.92. The Treasurer's Report was approved for audit.

Next, Technical Committee Report by David, KUOR: All equipment is up and running. LISATS had a water damage to an antenna and IRARC will lend them one for temporary used. The EmCom station at the church is progressing and Dave will have a full report by the September meeting..

President's Report: Viron and other members met with Brevard County Sheriff Ivey to discuss approving an emergency station on Merritt Island that would not have to be evacuated in case of a hurricane. On August 18 there was a follow up

meeting with Matthew Wallace, Director of Public Safety to discuss site conditions for volunteers at the shelters, operating positions, and moving a control operation center to the mainland. Evacuation centers for this cycle will be somewhat limited due to the COVID-19 restrictions.

Announcements followed: On August 22 starting at 9:00 AM there will be a simplex training net to start on the 145.37 MHz repeater and the moving to the simplex frequency of 147.42 MHz. Then on September 5 a county wide SET net will be held, starting at 9:00 AM also on 145.37 MHz.

Following the business meeting, Viron showed YouTube videos on the use of JS8CALL and FT8CALL for weak-signal communications.

At 7:56 PM the Zoom connection terminated.

Respectfully submitted by
Armando Delgado, KN4JN for the Secretary.

HAPPENINGS

ARRL is launching a new webinar series to help introduce more members to the variety of activities and opportunities that radio amateurs enjoy. The [ARRL Learning Network](#) will offer live presentations by member-volunteers, for members. Like hamfest forums and radio club presentations, the webinars are intended to help participants get more active, involved, and engaged in amateur radio. Presentations are 30 min-

utes each and will be hosted initially using GotoWebinar.

Current list of DXCC 10 most wanted countries:

1. P5 DPRK (NORTH KOREA)
2. 3Y/B BOUVET ISLAND
3. FT5/W CROZET ISLAND
4. BS7H SCARBOROUGH REEF
5. CEOX SAN FELIX ISLANDS
6. BV9P PRATAS ISLAND
7. KH7K KURE ISLAND
8. KH3 JOHNSTON ISLAND

9. 3Y/P PETER 1 ISLAND
10. FT5/X KERGUELEN ISLAND

The ARRL Board accepted the final band plan of the Band Planning Committee.
<http://www.arrl.org/news/arrl-board-meets-in-remote-electronic-meeting>
Final Band Plan:
<http://www.arrl.org/files/file/ODV/Second Board Meeting July>

[2020/Doc 25A Band Plan Final -1b.pdf](#)

Major highlights:
80 Meters:
-Bottom of Phone band moved from 3.600 to 3.650
-WB (Wideband) and ACDS (Automatic Controlled Digital Station) defined - 3.600-3.650
-Technicians given 3.900 - 4.000 phone and image
40 Meters:
-WB/ACDS defined 7.100 -

HAPPENINGS

7.125 (No more unwritten rule Novice CW segment!)
 -Technicians given 7.225 - 7.300 phone and image
 30 Meters:
 -WB/ACDS defined 10.135 - 10.150
 20 Meters:
 -WB/ACDS defined 14.105 - 14.150
 18 Meters:
 -WB/ACDS defined 18.105 - 18.110
 15 Meters:
 -WB/ACDS defined 21.150 - 21.200
 -Technicians given 21.275 - 21.350 phone and image
 -Novices given 21.025 - 21.200 RTTY/Data
 12 Meters:
 -WB/ACDS defined 24.925 - 24.930
 10 Meters:
 -WB defined 28.120 - 28.190 (All classes)
 -WB/ACDS defined 29.200 - 29.300 (Extra, Advanced, General)

A graphical representation of the current and proposed band plan changes can be seen [here](#).

An interesting article about big solar storms during solar minima appeared in the July 30 edition of <https://spaceweather.com/>

The Reverse Beacon Network (RBN) has introduced what it's calling "[RBN Map Data](#)," an open-source world map of spots with each trace color-coded by band.

AMSAT-UK has announced the [OSCAR Satellite QSO Party](#). The event starts at 0000 UTC on August 1 and continues until 2359 UTC on September 22.

A 3-day forecast of the planetary Kp index -- updated every 3 hours -

- is now available from the Helmholtz-Centre Potsdam GFZ German Research Centre for Geosciences. The planetary Kp index is a proxy measurement of the energy input from the solar wind to Earth.

The FCC will auction sharing rights to the upper 50 MHz of the 3300 - 3500 MHz secondary amateur radio allocation to commercial 5G interests in the wake of the Department of Defense (DoD) agreement to share spectrum at 3450 - 3550 MHz.. Details [here](#)

FRANCE, TM76. Members of the Radio Club du Val d'issole (F8KGH) will use the special call sign TM76DP until August 22 to commemorate the 76th anniversary of the

Provence Beach Landings (DRAGOON operation) in August 1944. Activity will be on 80 to 6 meters using CW, SSB and the digital modes. QSL via F4GPB.

DPØPOL/MM, R/V Polarstern sailing the Arctic-- Andreas, DL3LRM, will be active in CW signing **DPOPOL/MM** on 40m, 30m, and 20m from various locations near the North Pole. QSL via DL5EBE.

ON THE AIR

Dog Island IOTA DXpedition NA-085 K4D Sep 9-Sep 18, 0000Z -2359Z, K4D, Carrabelle, FL. K5TEN (Operator). 14.275 14.074 7.190 7.074. QSL. Bruce Brady K5TEN, 208 Mt Tabor Rd, Hot Springs National Park, AR 71913. Very rare IOTA island, rare grid square & rare county. (NA-085), EL79, Franklin County. Rescheduled from June due to Covid19. k5ten@aol.com

Route 66 On the Air Sep 12-Sep 20, 0000Z-2359Z, W6H, Rio Rancho, NM. Albuquerque DX Association. 14.266 14.033 7.266 7.033. Certificate & QSL. Bill Mader, 4701 Sombrette Rd SE, Rio Rancho, NM 87124. Use <http://w6jbt.org> for certificates plus frequencies and other information. Use QRZ.com for QSL information. The Route 66 special event

stations will concentrate activity on these frequencies: CW — 3.533, 7.033, 10.110, 14.033, 18.080, 21.033, 24.900, 28.033, and 50.033 MHz; SSB — 3.866, 7.266, 14.266, 18.164, 21.366, 24.966, 28.466, and 50.166 MHz; Digital — 3.580, 7.070, 10.140, 14.070, 18.100, 21.070, 24.920, and 28.120 MHz. Get your kicks on Route 66! <https://groups.io/g/adxa>

T00Z Team will be active from **Saint Barthelemy Island**, IOTA NA-146, 14 - 17 September 2020. Team - FJ/FS4WBS, FJ/FS5GL, FJ/FG4ST.

Southwest Reef Lighthouse/ILLW/US0176 Aug 22-Aug 24, 0001Z-1800Z, W5BMC, Berwick, LA. Bayouland Emergency Amateur Radio Service/BEARS. 14.275 7.275. QSL. Jackie Price, 708 Front St., Morgan City, LA

70380. The Southwest Reef Lighthouse sits on the bank of the Atchafalaya River in Lighthouse Park in Berwick. The station is a permanent facility at the Memorial Ray Raspberry, WB5LKR(SK) tower in Lighthouse Park

4th Annual William Becknell Heritage Days Special Event - Founder of the Santa Fe Trail Sep 12-Sep 13, 1400Z-2200Z, WBOSFT/KCOVYS, Overland Park, KS. William Becknell Santa Fe Trail Heritage Days. 21.365 14.265 7.265 3.865 1.830; SSB CW FT8. Certificate & QSL. See website, for information on, receiving certificate or QSL. On the trail 1x1 calls, WOB through W9B, and Parks on the Air (K-4579) activation. QRZ and LoTW. See website for details, and how to receive a certificate and/or QSL. www.wb0sft.org

Jul30,2020-Aug31 **Iraq** YI IU5HWS Direct IU5HWS as YI/ IU5HWS; 40 20 10m; operation to continue until Nov 30; QSL: Giorgio Toma, Via Settembrini NÂ°5, Livorno, IT 57128, Italy

West Island Granite Island Andy, VK5MAV/P will be active from IOTA OC - 228, Australia 22 - 23 August 2020.

Easter Island XROYSP Team will be active from Easter Island, IOTA SA - 001, 15 - 30 September 2020.MTeam - SP3CYY, SP3GEM, SP6EQZ, SP6IXF, SP9FOW, SP9RCL.

DENMARK, OZ. OZ200EM is on the air until the end of the year, honoring the memory of Hans Christian Orsted, who discovered the principle of electromagnetism 200 years ago. QSL via OZ1ACB.

Working the Dxpediton by Armando Delgado, KN4JN

Dxpeditons are among the most challenging amateur radio activities, both for the expeditioners and for the folks at home trying to work them.

Dxpeditons invariably involve a group of hams traveling to a geographic location that has a unique prefix designation by the International Amateur Radio Union (IARU) but that has few or no active radio amateurs. By activating these localities, hams hope to provide that rare prefix to the world amateur community to put in their logs. Dxpediton locales vary in accessibility and conveniences. Some provide many modern facilities and the visitors' only requirement is to bring their equipment to operate. Other locations are barren, uninhabited and desolate places where the travelers need to bring everything needed for survival for the duration of the mission, as well as all their equipment.

Amateurs operating from a dxpediton, regardless of mode or frequency of operation, will transmit one signal, but are replied by thousands of hams all over the world, producing horrendous pileups. In order to maintain a reasonable contact rate, expeditioners must work split frequencies. That is, the dxpediton transmits in one frequency, usually advertised, but will listen in another frequency, generally one or more kilohertz higher than their transmitting frequency. As a rule, they announce this fact on their transmission by saying their call sign followed by "up". If the pileups are light, that frequency is only one kilohertz up, but if the pileups are large, the dxpediton will change the listening frequency often, sometimes after each contact. Depending on the band of operation, the listening frequency span may reach as much as 10 kilohertz.

There are many challenges for the folks trying to work a dxpediton. As a rule, dxpeditons take place from faraway places and there are multiple time zones involved. This factor is more critical during low solar

activity cycles, like the present, because the bands that are open are low frequency bands that do poorly during daytime. Thus, the mutual openings for the dxpediton and amateurs many time-zones away may be brief and at inconvenient hours.

One other challenge develops from the split frequency format commonly used by dxpeditons. For the home listener, the challenge is to find the listening frequency of the dxpediton. Some fancy, expensive rigs have dual receivers that allow monitoring two frequencies simultaneously, but most hams only have radios with dual VFO's and must switch between frequencies to find the one where the dxpediton is listening at that moment. This is done by listening for the signal report of the station last contacted. Once found, a quick call on that frequency may yield pay dirt, if the pileup hasn't caught up and one hundred other stations are also placing a call on that frequency.

Another problem for home stations are the lost souls who know nothing about the dxpediton and hearing a rare prefix begin to call on the dxpediton's transmitting frequency; for some odd reason these folks all have amplifiers. Their transmissions not only hamper the reception of the dxpediton's information but most of the time will activate the frequency police that will begin to call "up", "up" in that frequency, adding to the chaos. After annoying thousands of hams worldwide, the lost souls either get the message or give up and stop the interference.

A relative of the lost soul is the frustrated ham who resents his favorite part of the spectrum being occupied by the pile ups. These folks, as often as not, also have amplifiers and will tune them right on the dxpediton

transmitting frequency. They are not welcomed individuals and after a few not so courteous QRT requests customarily there follows a few derogatory appellatives. These people in time will go away, after annoying the heck out of many hams.

Fortunately, today we have the internet that makes working these rare entities a little easier. Most dxpeditons have a web site, generally started weeks or months ahead of the operation. These sites give a lot of information on the planning and progress of the event. Once on site, the web site provides information on the frequencies used by the dxpediton, and many also list recent contacts, thus allowing folks who work them the assurance that they are in their logs. Some operations will use an outside web site for this information, such as Clublog.org.

Due to the coronavirus pandemic, this year many planned dxpeditons were cancelled or postponed. This is not totally a bad thing since next year we may have more events and at a time when the new solar cycle may be making its debut, providing increased solar activity and better propagation in the higher frequency bands that provide daytime and longer distance propagation.

Working dxpeditons is a very challenging activity that requires extensive planning and operating skill, but making that contact is extremely rewarding, especially for the average ham with the average station.



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



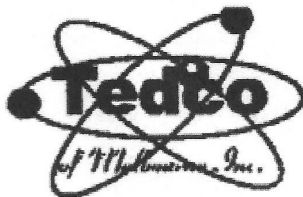
Editor's Note:

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

olardeiga@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 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	W4NLS	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	W4NLS	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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CHICAGO MINIATURE
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GALAXY
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MACOM
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