



INDIAN RIVER ARC

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

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SPURIOUS EMISSIONS

FEBRUARY, 2016

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ARMANDO DELGADO

KN4JN

The club convened its monthly meeting on February 4, 2016 at the Red Cross building in Rockledge at 7:30 PM. President Dave KU0R called the meeting to order at 1930 with the Pledge of Allegiance, followed by the welcome of visitors and guests. There were no visitors or guests. Next there was a call for hams in need. Ira K8HRR asked for a ride to the hamfest on Saturday, March 12. A volunteer stepped forward to give Ira a ride to the hamfest. Next the meeting minutes for the January meeting were approved. The Treasurer, Larry KK4WDD, reported that we have \$1274.83 in the equipment fund and \$3504.14 in the checking account, plus some loose change in petty cash. The Treasurer's report was accepted for audit. Next VP Viron N4VEP reported that he enjoyed the cruise and was sad to miss the January meeting. Dave reported that the repeaters are in good shape and the 88 machine will operate dual fusion mode starting on Saturday, March 6. The old hardware on the 37 repeater will be re-

placed on Friday. A short discussion ensued about the impacts of sharing digital modes with analog modes and that everyone will have to tone the receive side of their transceivers. Joe Parker KC4CFE asked about the UHF repeater which we are unable to physically access. Dave reported that the UHF repeater is performing very well. Dave next went over the calendar of events. A question was asked if IRARC has a table at the hamfest and the answer was no. If you want to sell something at the hamfest, see Wolfy, KB8BU, because he will have a table.

Dave next reported the 12th of March is the MS walk and it will be about the same as last year, except it will start at 8 AM. JDRF is April 30th on the beach. Larry KM4CVB reminded the group that the 12th of March is the air show at the Titusville airport. The air show will host a flying B-29 and a B-17 world war two bombers. The latter one will give a laser show in the evening.

Dave called for old business

and there was no old business.

New Business: Larry KK4WDD brought up the possibility of broadcasting the meeting presentation over streaming internet or ATV. Someone at the CARS meeting brought up a story about a ham club supporting a public service event; there was an accident and the club was sued. Our club carries liability insurance for such a situation. The 50-50 drawing drew ticket 607 that was in the hands of Sandy, AK4BZ, who took home \$8. Following the talk on compact antennas for condos and apartments, Dave brought up the fact that the FCC requires 5mW/cm² radiation rule, and you must advise anyone being radiated.

Stan KJ4NUV announced that things are quiet in the Emergency Coordinator world, and he is asking for an assistant to help him in his EC duties, due to a doctor's orders to slow down.

A motion to adjourn occurred at 2029 was moved and approved.

Respectfully submitted,
Steve N4UTQ Secretary

HAPPENINGS

The World Radiocommunications Conference 2015 approved 5351.5-5366.5 kHz for amateur operations, now pending approval by the FCC. These are new frequencies to the 60 m allocation.

Josh Dicky/WD1CKY passed the Extra Class exam on January 17, 2016 at the Veteran's Memorial Center and Museum in Merritt Island. The VEC's

proctoring the exam were Dave/K4UZM, Ernie/K1CPO, Dwight/WF4H, Porter/WA4WW, Viron/N4VEP, and Del/AK4EY. Josh also filled out membership applications for the Indian River ARC and the Cocoa Amateur Radio Society. Everyone, congratulate Josh on achieving Extra Class when you see him or hear him on the radio.

Monday night net at 8:00PM on 147.36 MHz.

March 12 MS Walk at Church of Viera.

Don't forget: Orlando Hamcation February 12-14

The web site below contains video library of disaster response training published by the Disaster Resistance Community Group.

<http://www.drc-group.com/project/jitt.html>

QUANDARIES OF PROPAGATION

This message came from Jeff Hartley, N8II in Shepherdstown, West Virginia back in November.

"Even when the K index dropped to 1 after the major storm this week, it seemed that 10 meters was relatively poor.

"Today (November 13) from 1440 UTC until around 1530 UTC, I had a pipeline into the Netherlands and Belgium. The first few 10 meter SSB QSOs were good signals from England, then there was a parade of PA, PD, and ON stations

many peaking over S-9 with 25-100 W and very simple random wires and even one with an indoor dipole.

"The last few QSOs were with Germany with good signals and mostly non-gain antennas. The K index had climbed to 3 at 1500 UTC after a 1 at 0900 UTC. It seems to me that quite often even some northerly paths are not closed when the K index is 3 and may even be temporarily enhanced a bit. But overall, a of 0 or 1 is best.



ON THE AIR

Look for HE200GE during 2016. Commemorative station celebrating 200 years of Geneva's entry into the Swiss Confederation.

ARRL International Dx Contest: CW February 20-21 (Starts Friday evening) SSB March 5-6 (Starts Friday evening)

ANTARCTICA. Bhagwati, VU3BPZ is QRV as 8T2BH until mid December 2016 at the Bharati Research Station. Activity is on 20, 17, 15 and 10 meters using SSB. QSL via I1HYW.

SOLOMON ISLANDS, H4. Tom, WL7HP is QRV as H44TM from Guadalcanal until February 16, 2016. He is active in his spare time on 40, 20, 17 and 15 meters using SSB and possibly some CW. He plans to visit three of the outer islands. QSL to home call.

REPUBLIC OF KOREA, HL. Special event station HL16RI is QRV until June 27, 2016 during the 107th Convention of Rotary International in Seoul that is held from May 28 to June 1. QSL via bureau.

UKRAINE, UR. Special event stations EM10UFF and EM10UCF are QRV until June 30, 2016 to mark the 10 year anniversaries of the Ukrainian Flora and Fauna and Ukrainian Castles. QSL both calls via UR7UT.

SRI LANKA, 4S. Alexander, UX4UL is QRV as 4S7ULG until April 15. Activity is on the HF bands using CW and various digital modes.

H.L. Hunley Commemorative Event—Feb 17 Call sign N4H Proposed frequencies are 7.117(CW) 7.262, 14.262 and 28.562MHz.

www.tridenthams.org/Hunley.htm

The QRP Club held its monthly outing at Manatee Park on North Tropical Trail in Merritt Island, Florida the 16th of January 2016 from 9:00 AM until 12:00 Noon. Weather was absolutely wonderful with clear skies and temperature in the high 60's/low 70's all morning.

Dave/K4UZM installed a 20 meter horizontal dipole, Ernie/W1CPO installed a 40 Meter horizontal dipole and Del/AK4EY installed an end-fed 20 Meter vertical antenna. Also, five (5) other HAMS stopped by from time

during the morning to rag chew face to face with each other, share a snack and check out the stations.

The 20 and 40 meter bands were open and active all morning long with a number of radio nets, special event stations and DXs going on. High powered (greater than QRP) stations ruled the day, but with patience and aggressive calling, the QRP community succeeded in making some contacts. Notable were KC2GLL on 14.300 MHz from Sulfur Springs, Texas who reported a 5X5 reception; W1VCU on 14.322 MHz from Maryland, with a 5X7 reception; WA5DTK on 14.252 MHz from South Texas reporting a 5X9 signal; WB9LCJ on 14.285 MHz from SE Wisconsin with a 5X5 signal report; KB3SBC, a QRP Special Event Station (National Parks On -The-Air), on 14.288 MHz from Delaware reporting a 5X7 signal; and upwards of 30 additional contacts made early in the afternoon on 20 meters into New England, Canada, Midwest and Northern Southeastern states. 40 meters produced a single contact although the band was very active all morning.

Next month's QRP outing location as not yet been identified. Check the website, <https://groups.yahoo.com/neo/groups/SpaceCoastQRPGroup/info> for information.

A Brief History of Amateur Radio Call Signs—Part II by Armando Delgado, KN4JN

The Telecommunications Act Of 1934 created the FCC, run by a commission. The new agency soon restructured the amateur license system but let the call sign format intact. Actually, amateur call signs remained unchanged until after WWII when in a few short years many alterations happened. In 1945 a 10th

call area became part of the continental United States. Previously, some of the call areas divided some states. The additional call area allowed integral states to be in their respective call areas. Later, in 1947, at the Atlantic City international convention, the United States received the block of call sign prefixes AA through

AL. These, however, did not become part of the amateur call signs until years later, in 1978. Then in 1951 the FCC restructured the entire amateur licensing system, introducing the Novice, Technician, and Advance licenses, which were added to the existing General and Amateur Extra Licenses. During the 1950's, due to a

shortage of call signs, new calls began to appear in the continental USA using the K prefix as well as the first 2X3 call signs using the WA and WB prefixes.

In 1978 the FCC changed the call sign assignment format by providing call signs according to the license category of the recipient. It created a block of call signs to assign to new licensees in each

Group A Call Signs		Group B Call Signs	
<i>Block no.</i>	<i>Contiguous USA</i>	<i>Block no.</i>	<i>Contiguous USA</i>
*1	K#\$\$	1 ¹	KA1\$\$
*2	N#\$\$	2-23	KB#\$\$-KZ#\$\$
*3	W#\$\$	24-46	NA#\$\$-NZ#\$\$
4-13	AA#\$\$-AK#\$\$	47-69	WA#\$\$-WZ#\$\$
14-36	KA#\$\$-KZ#\$\$	70	Group C
37-59	NA#\$\$-NZ#\$\$		
60-82	WA#\$\$-WZ#\$\$		
83-92	AA#\$\$-AK#\$\$		
93	Group B		
<p>The following prefixes will not be assigned to stations in the contiguous 48 states: AH WH KH NH NL AL KL WL KP NP WP. Pacific-area stations will be assigned AH#\$\$ KH#\$\$ NH#\$\$ WH#\$\$, then Group B. Alaska-area stations will get WL7\$ AL7\$ KL7# NL7\$, then Group B. Atlantic-area stations will be assigned KP#\$\$ NP#\$\$ WP#\$\$, then Group B.</p>		<p>¹KA prefixes will be assigned only to persons living in the first call district. Other KAs are assigned to US personnel living in Japan. The following prefixes will not be assigned to stations in the contiguous 48 states. KH KL KP NH NL NP WH WL WP. Pacific-area stations will be assigned calls in the format, AH#\$\$, Alaska-area stations, AL7\$\$, and Atlantic-area stations, KP#\$\$\$. Once these blocks are used up, assignments will be made from Group C call signs.</p>	
Group C Call Signs		Group D Call Signs	
<i>Block no.</i>	<i>Contiguous USA</i>	<i>Block no.</i>	<i>Contiguous USA</i>
*1	K#\$\$\$\$	1-23 ¹	KA#\$\$\$\$-KZ#\$\$\$\$
2	N#\$\$\$\$	24-41	WA#\$\$\$\$-WZ#\$\$\$\$
*3	W#\$\$\$\$		
4	Group D		
<p>Pacific-area stations will be assigned KH#\$\$\$ NH#\$\$\$ WH#\$\$\$, in that order; Alaska-area stations KL7\$\$\$ NL7\$\$\$ WL7\$\$\$; Atlantic-area stations NP#\$\$\$ WP#\$\$\$. After these are depleted, Group D will be used.</p> <p>*Call signs using these prefixes are not currently being issued.</p>		<p>¹Except KC4AAA-AAF and KC4USA-USZ. The following call sign formats will not be assigned to stations in the contiguous 48 states: KH#\$\$\$ KL#\$\$\$ KP#\$\$\$ WC#\$\$\$ WH#\$\$\$ WK#\$\$\$ WL#\$\$\$ WM#\$\$\$ WP#\$\$\$ WR#\$\$\$ WT#\$\$\$. Pacific-area stations will be assigned to KH#\$\$\$ WH#\$\$\$; Alaska-area stations will be assigned KL7#\$\$\$ WL7\$\$\$; Atlantic-area stations KP#\$\$\$ WP#\$\$\$.</p>	

Figure 2—Current US call sign blocks.

license class. The table above shows the call sign blocks.

At this time the FCC also changed the territories' call signs. Those located in the Pacific side received the prefix KH with a different numeral for each location. Thus Hawaii remained KH6, but Guam became KH8. Old call signs were grandfathered so that it is still possible to hear a KG6 call from Guam.

Likewise, in the Atlantic side the FCC assigned all the territories a KP prefix with a different number for each one. Puerto Rico

remained KP4 and WP4 but the Virgin Islands received a KP2 or WP2 prefix. Guantanamo Bay kept the KG4 designation because this call sign is issued by the military.

Actually, over the years the FCC reserved a number of call sign blocks for special operations. The KA2AA-KA9ZZ was reserved for the military amateurs stationed in Japan. The KC4AAA-KC4AAF block was given to the National Science Foundation for use by amateurs in the South Pole. The US Navy received the

groups KC4USA-KC4USZ for their amateurs in Antarctic bases. For Guantanamo Bay the call group is KG4AA-KG4ZZ, and those stationed in Korea received the block KL9KAA-KL9KHZ.

The FCC also created a block of special call signs for FEMA comprising a total of 40 possible call signs having the prefixes AF, KF, NF, and WF with the suffix EMA following a numeral.

The evolution of amateur call signs over the years is

primarily dependent on the number of licensed amateurs. With the advent of the Vanity call sign many old calls receive a recycling, but eventually a reformatting will be required with either 3 letter prefixes or 4 letter suffixes, or both, due to the fact that the current format only allows for a fixed number of amateur call signs.



W1AW CW PRACTICE TRANSMISSIONS

7 PM EST Slow CW :
Mon, Wed, Fri

7 PM EST Fast CW:
Tue, Thu

FREQUENCIES:

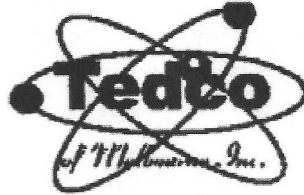
1.8025, 3.5815, 7.0475,
14.0475, 18.0975, 21.0675,
28.0675, 147.555



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