



**INDIAN
RIVER ARC**

P.O. BOX 237285, COCOA
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SPURIOUS EMISSIONS

APRIL 2017

CLUB MINUTES

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ARMANDO DELGADO
KN4JN

IRARC General Meeting April 6, 2017

The meeting began at 730pm with the pledge of allegiance. Due to a wreck on the 520 bridge, President Dave KU0R was late for the meeting so Vice President Viron N4VEP ran the meeting.

Following the Pledge of Allegiance visitors were recognized. There were no visitors.

The members then held a moment of silence for the passing of Norm, W1TLZ, last week.

The meeting minutes for the March meeting were published in the newsletter. A motion was heard to approve the meeting minutes; it was seconded and the minutes were approved by acclamation.

Next, Treasurer, Larry KK4WDD, reported that we have \$2062.49 in the checking account and \$1277.08 in the equipment fund. A motion was made to accept the Treasurer's report for audit; a second was heard and the Treasurer's report was approved by acclamation.

Vice President Viron N4VEP reported that he has been mentoring kids at Audubon Elementary school and showed the kids multiple possibilities of amateur radio, including VHF and HF radio contacts. He is encouraging the children to get their ham licenses and he recognized Ricky K4JTT for facilitating hand-held radios to be given to the children as rewards for getting licensed.

Greg AB4GO, reported for the Red Cross that he attended a Red Cross planning

meeting in Daytona Beach recently but there were no new changes, just a recommendation for preparedness.

Dave K4UZM, reporting for the Technical Committee said the antenna on the 37 repeater rotated due to high winds and was corrected with a bracket to prevent future wind problems.. The 88 repeater is working well.

Community Service event: JDRF walk at Lori Wilson Park in Cocoa Beach on April 22 needs volunteers to help provide communications. Dwaine KM4HCN reported tomorrow (April 7) is the deadline for registering volunteers for the JDRF walk to guarantee T-shirts; although, volunteer communicators are welcomed at any time. Any and all are welcomed to participate, even on the day of the event.

Before the presentation, Larry KK4WDD drew the 50-50 ticket and the winner was found to be in the hands of Gerry KJ4IMP.

Ricky K4JTT started the presentation by talking about the passing of Ray Kassis, N4LEM. The King Street facility, which was used to run Central Net, is no longer available but the city of Rockledge has drafted a MOU that gives BEARS1 a permanent home at the fire station at Barton and US1. The MOU will also allow us to build a new Central Net facility within the Rockledge EOC, not to be confused with the County EOC. Ricky pointed out that other cities in the county have provided joint operations with the amateur community and that the city of Rockledge, after hurricane Matthews,

recognized a need for alternative communications support. Ricky is asking the club to take ownership of the task of interfacing with the city of Rockledge. Ricky went on to describe the responsibilities of this position. Rockledge wants ARES to make the new ARES EOC operational before the next hurricane season. The selected individual must have excellent managerial skills to deal with the city personnel. The city will provide some funding for this project. Dave K4UZM made a comment that the club is stretched too thin already with our existing commitments. Larry KK4WDD commented that we might have the volunteers that could build the new EOC, but not necessarily to staff it. In conclusion, IRARC will work with CARS to explore cooperation to execute this new function. Greg made a motion that IRARC commit to support the relationship with the city of Rockledge and to support the central net or endorse the concept of supporting the fire department, a second was heard. Viron amended the motion that we move forward to help the city of Rockledge in establishing an EOC. A vote was conducted and the motion was carried.

A motion to adjourn occurred at 2046 and was moved and approved.

Respectfully Submitted

Steve N4UTQ

Secretary

HAPPENINGS

Some things you take for granted, like WWV being there when you just need a reliable signal to receive. It can be unnerving when the signal is NOT available. Is it me, or WWV? You can check on the WWW/WWWH outage page, which shows all outages since January 1, 2000 lasting longer than five minutes.

Amphenol RF publishes a [table of different types of coaxial cables](#), which includes characteristic impedances and physical diameters. Quantities of high-performance but lesser-known coaxial cable can sometimes be found at hamfests or on eBay, and could be useful for applications like impedance transformers, chokes, or internal wiring.

CTCSS and DTMF" is the topic of the early March "[ARRL The Doctor is In](#)". "Remote Antenna Tuners" is the topic of the just-released episode of the podcast.

Cape Cod National Seashore in Massachusetts has invited organizers of an Amateur Radio special event in April marking the 105th anniversary of the

RMS *Titanic* disaster to set up at its [Salt Pond Visitor Center](#). The *Titanic*/Marconi Memorial Radio Association of Cape Cod – [W1MGY](#) – is sponsoring the worldwide commemoration to honor the approximately 1,500 passengers and crew who died when the *Titanic* – thought to be unsinkable – struck an iceberg and sank on its maiden voyage from England to the US.

HAPPENINGS

Operations will be on April 13, 14, and 15 until 0527 UTC, the time the *Titanic's* last radio message was heard by the *Virginian*. Planned frequencies are 3.950 MHz, 7.270 MHz, and 14.285 MHz. Find [more](#) information at the web site.

The Southern California DX Club (**SCDXC**) has announced that “**Dr. DX**” is on call and ready to answer questions via e-mail from fledgling DXers. A team of experienced DXers will offer helpful replies to any and all DXing-related questions.

Special event stations sporting unusual call signs are – or will be – on the air this spring and later in the year.

From Canada's Yukon Territory, keep an ear open for X01X, now on the air for the remainder of 2017. The special call sign prefix is permitted as part of Canada's sesquicentennial celebration, as is K150YUKON, another Yukon Canam Contest Club call sign for the sesquicentennial, operating VY1JA remotely.

OE17ATOM will be active from

Austria starting at 2200 UTC on April 21 until 2200 UTC on April 22, operating on HF, VHF, and UHF from the only nuclear power plant that never was. The Zwentendorf Nuclear Power Plant was never run, owing to the outcome of a national referendum.

From Croatia, 9A21RBM, on the air April 1-15, will commemorate the 21st anniversary of the plane crash near Dubrovnik in 1996 that claimed the lives of US Commerce Secretary Ron Brown and 34 others. Presumably the suffix stands for “Ron Brown Memorial.”

The ARRL has a You Tube page with a variety of information:

<https://www.youtube.com/user/ARRLHQ>

International Marconi Day (**IMD**) event, this year being held on April 22, 0000-2359 UTC (starting on April 21 in US time zones). Special event station GB4IMD will be on the air from Cornwall, helmed by members of the Cornish Amateur Radio Club, which organizes the IMD event. Cornwall was home to some of Marconi's early work. A [list of participating stations](#) is on the Cornish Amateur Radio Club's web site. The [Kerry Amateur Radio Group](#) in Ireland will be taking part as well with station EI6VXQ. In the US, special event station K2M will be on the air from Binghamton, New York, the site of the remaining [Marconi tower](#).

ON THE AIR

BARBADOS, 8P. Dean, 8P6SH is QRV with special call sign 8P50B until December 31 to celebrate the 50th anniversary of independence from Great Britain. QSL via KU9C.

ST. MARTIN, FS. Serge, VE1KG is QRV as FS/VE1KG until the end of April. Activity is on the HF bands. QSL direct to home call.

ANTARCTICA. Francois, F4HLT is QRV as FT3YL from the Dumont d'Urville Station Terre Adelie on Petrels Island, IOTA AN-017, until February 1, 2018. Activity is on 20, 15 and 10 meters using SSB

and various digital modes in his spare time from 0900 to 1100z and after his work duties. QSL via F6KPC.

From the ARRL: [Maritime Radio Day](#) will take place in mid-April, with activity – all on CW – centering on International Naval Frequencies, 1,824; 3,520; 7,020; 10,118; 14,052; 21,052, and 28,052 kHz. Maritime Radio Day is held annually to commemorate nearly 100 years of CW maritime wireless service. [Register](#) online.

The event gets under way at

1200 UTC on April 14 and concludes at 2200 UTC on April 15. Participants exchange QSA (signal strength, 1-5), QRK (readability, 1-5), name, call sign of last or favorite ship/aircraft/maintenance company and “additionally a tr, msg and/or a QTC, if you like.” SWLs are welcome to take part. A newly designed certificate of participation will be available. Submit logs by May 1 via [e-mail](#) to Rolf Marschner, DL9CM, or Narzissenweg 10, 53359 Rheinbach, Germany. — *Thanks to David Ring, N1EA*

Rookie Roundup:
The third Sunday of April from 1800 UTC through 2359 UTC. 2017: 16 April (SSB)
Web site for details:
www.arrl.org/rookie-roundup

Apr 25-Apr 30, 0000Z-2359Z, W5B, Club KC5NX will be sponsoring a special event commemorating the 150th Anniversary of the Chisholm Trail that moved over 5,000,000 cattle thru Texas and Oklahoma to Abilene Kansas during the late 1800s. Seven stations will be set up along the original trail using the call signs W5A, W5B, W5C, W5D, W5E, W5F, and W5G. Please QSL to the station worked with SASE. <https://www.qrz.com/>

10 Meters by Armando Delgado, KN4JN

The amateur 10-meter band is unique in many respects. It is the highest band in the amateur HF spectrum, sitting at the edge of the VHF frequency range, which starts at 30 MHz, thus possessing some VHF characteristics in propagation. This band is the largest of all the HF bands, encompassing 2 MHz in length, which is ten times larger than any of the lower HF bands. Actually, it is larger than the entire amateur spectrum in the lower HF amateur bands combined. This band also allows amateurs to operate FM,

which is not possible in the lower bands, as well as FM repeaters.

The 6-meter band is called “The Magic Band” because of its sporadic E-layer and trans-equatorial openings that allow amazing long distance contacts, but this appellation could very well apply to 10 meters. Actually, more so because during solar maxima 10 meters will allow regular long distance contacts via

the F layer, at times utilizing amazingly low power, and during the solar minima it will provide sporadic E openings and F-layer openings too. Some folks underestimate 10 meters thinking that it is only active during the solar peaks, yet it will open regularly regardless of the status of solar activity. Certainly, it will open more frequently during high solar activity, but it does not disappear altogether during the solar minimum.

Now that we enter the next low solar cycle, folks will steer away from 10 meters and we can expect a diminishing number of contacts reported or achieved in that band, but much of that low activity is due to lack of use as much as to poor propagation. Contests invariably will cause amazement during the low activity cycles because people can achieve a significant number of contacts in that band; although, generally they are rather sporadic and limited to short spurts of activity that quickly die

10 Meters

28.000-28.070	CW
28.070-28.150	RTTY
28.150-28.190	CW
28.200-28.300	Beacons
28.300-29.300	Phone
28.680	SSTV
29.000-29.200	AM
29.300-29.510	Satellite Downlinks
29.520-29.590	Repeater Inputs
29.600	FM Simplex
29.610-29.700	Repeater Outputs

The 10 meter band plan.

away. Yet for the patient operator, it will always offer surprising openings and the possibility of extraordinary DX contacts.

During the low solar cycle, the surest way to determine if the 10 m band is open is to use the International Beacon Project. Their web site offers information on frequencies, transmission schedules, active beacons, and a lot of other useful details for using these beacons.

www.ncdxf.org/beacon/

Of course, nothing beats listening in the band to determine if there is an opening, perhaps to a location not covered by the beacons. Also, one needs to not forget that 10 m is a day-time band dependent on F-layer ionization to propagate, although E-layer and trans-equatorial propagation occurs as well, which can be rather unpredictable.

Besides the propagation advantages, 10 m also includes the benefit of smaller antennas that as horizontal dipoles provide a low angle of radiation at practicable heights for the average amateur home, and as verticals can be unobtrusive on any roof or balcony, using short radials in a ground plane configuration.



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,
147.555

April CW W1AW Qualifying Run

Local (Eastern)

Date	Time	Day	Time
April 6, 2017	9 AM	Thursday	35 - 10 WPM
April 20, 2017	4 PM	Thursday	10 - 40 WPM

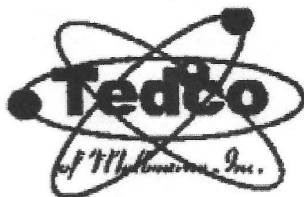


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