

Indian River Amateur Radio Club's Spurious Emissions

Nov 2014

Nr : 04

Volume: XL



2014 Simulated Emergency Test and Other News

The 2014 Simulated Emergency Test began at 10 AM on October 18th with a jolt of realism where the normal Indian River Amateur Radio Club repeater services were knocked out as part of the exercise. IRARC's Emergency Coordinator, Stan Harrell, KJ4NUV ran the Brevard exercise from the backup EOC at Ray Kassis' N4LEM station in Cocoa.

From the exercise beginning the "fog of war" ensued when local operators attempted to contact the backup EOC on simplex using the usual IRARC 147.42 MHz frequency. For an actual emergency, it is recommended to use the repeater output frequency as the simplex channel if the normal 145.37 MHz repeater for central Brevard should fail.

After a rough start, traffic was flowing between simulated shelters running on emergency power to the backup EOC. The N4LEM station was

the central hub of communications between south Brevard, central Brevard and North Brevard centers relaying traffic to the Red Cross and Brevard EOC in Rockledge.

The use of simplex frequencies for the shelters resulted in numerous requests for relays when the backup EOC could not copy some shelters due to a combination of low power and antenna elevations. Operator "relay assists" in these exercises were realistic in demonstrating what will occur in a real world scenario.

The exercise was a success with numerous lessons-learned written up for station improvements at the backup EOC and initial contact protocols in case of a major repeater outage forcing changes to simplex operation.

At the November IRARC meeting, the membership will vote on the purchase of a

Yaesu DR-1X Fusion repeater for \$500 - special price from Yaesu to radio clubs. The normal price is \$1700.

In other IRARC news, the Red Cross has approved the tower installation project with Dave Norton, AI4FY donating his tower to the effort. A work party is planned to be held on November 8th beginning at 0900 at Dave's QTH in Cocoa to remove antennas, lower the tower and transport the hardware back to Rockledge. We need volunteers to assist in the effort. Please contact Del Anderson, AK4EY to volunteer in this effort. "Many hands make for light work."

Finally with the Pier Restaurant closed for remodeling, the IRARC Christmas party will be held at the Merritt Island Red Lobster on December 4th. We plan meet at 6:30 PM and will order from the menu.

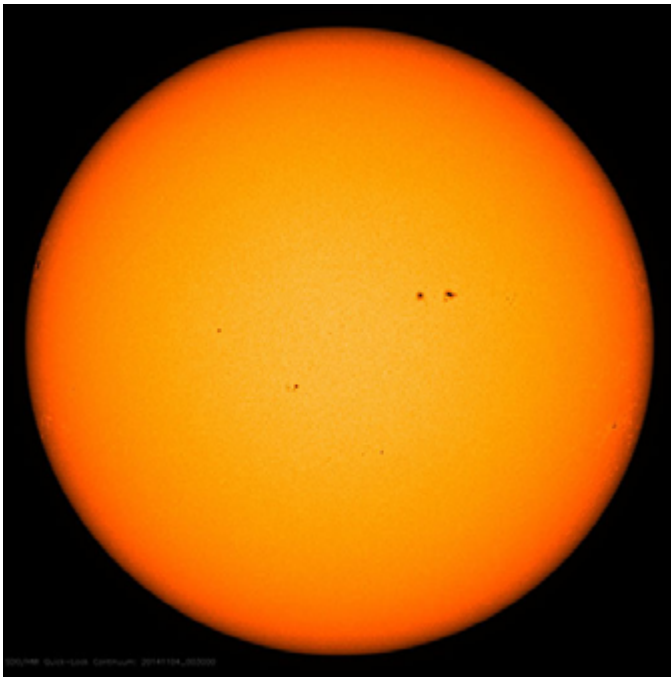


Stan Harrell (left), KJ4NUV and Dave Slawson, K4UZM at battle stations (N4LEM backup EOC) for the 2014 SET

Meet Us On the Following...

On Wednesday at 7:15 PM local, the Central Brevard County ARES net meets on IRARC's 145.370 MHz repeater (tone 156.7 Hz). After the net, informal ops/rag chew happens on 147.42 MHz simplex. Sunday Half Time Net meets at 3 PM on the 37 repeater - you don't have to be a football fan to join. On the web point your browser to: <http://irarc.ham-radio-op.net>.

IRARC's Spurious Emissions is published monthly. Comments and articles are welcomed, contact Dave Lerret, KU0R, payloadone@earthlink.net



Sun activity from the Solar Dynamics Observatory as of 0030 UTC, 04 Nov 2014. This channel display is from the SDO Heliioseismic and Magnetic Imager. - photo courtesy of <http://sdo.gsfc.nasa.gov>.

Explanation - Radio Flux 10.7 cm: Predicted 10.7 cm (2800 MHz) full-Sun background flux. Values are in solar flux units of 10⁻²² Wm⁻²Hz⁻¹ and are not corrected for the variable Sun-Earth distance resulting from the eccentric orbit of the Earth around the Sun.

Planetary A Index: Predicted daily planetary A index. The A index is an index of geomagnetic activity derived from 3-hourly K-indices. A indices range from 0 (very quiet) to 400 (extremely disturbed). A forecast A index of 30 indicates global geomagnetic storm conditions are expected.

Largest Kp Index: Largest daily planetary K index (Kp) expected for the day indicated. The Kp index is an estimated 3-hourly planetary geomagnetic index of activity derived in real time from a network of western hemisphere ground-based magnetometers. Kp indices range from 0 (very quiet) to 9 (extremely disturbed).

Product: 27-day Space Weather Outlook Table

Issued: 2014 Nov 03 0632 UTC

<http://www.swpc.noaa.gov/wwire.html>

27-day Space Weather Outlook Table

# UTC # Date	Radio Flux 10.7 cm	Planetary A Index	Largest Kp Index
2014 Nov 03	115	5	2
2014 Nov 04	115	8	3
2014 Nov 05	110	10	3
2014 Nov 06	110	8	3
2014 Nov 07	105	8	3
2014 Nov 08	100	5	2
2014 Nov 09	115	5	2
2014 Nov 10	120	8	3
2014 Nov 11	125	8	3
2014 Nov 12	145	5	2
2014 Nov 13	150	8	3
2014 Nov 14	160	12	4
2014 Nov 15	170	12	4
2014 Nov 16	180	22	5
2014 Nov 17	180	15	4
2014 Nov 18	190	10	3
2014 Nov 19	200	8	3
2014 Nov 20	200	8	3
2014 Nov 21	195	8	3
2014 Nov 22	190	12	4
2014 Nov 23	170	12	4
2014 Nov 24	150	12	4
2014 Nov 25	135	8	3
2014 Nov 26	125	5	2
2014 Nov 27	105	5	2
2014 Nov 28	105	5	2
2014 Nov 29	100	5	2

Strays -n- Stuff



Greg O'Neill (left), AB4GO and Jeff Beals, WA4AW, ARRL Section Manager for Southern Florida manning the Quarter Century Wireless Association table during the Melbourne Hamfest on October 10th

- **IRARC Financial Report for Oct 2014**
Checking: \$4523, Equipment Fund: \$1161.
- **IRARC Christmas Party - Dec 4th at 6:30 PM**
Red Lobster Restaurant in Merritt Island
- **NTS Training Net Fridays at 7:15 PM on 145.37 MHz repeater - learn how to pass traffic.**
- **Join the Space Coast QRP Group.** They meet at a Brevard local park or other listed location - every 3rd Saturday 9 AM website at http://groups.yahoo.com/group/Space_Coast_QRP_Group/
- **Are you RadioActive?** Check the IRARC website calendar at <http://irarc.ham-radio-op.net/> for upcoming events, photos and links to other local clubs.

Club Meeting News

The October meeting of the Indian River Amateur Radio Club was called to order at 7:30 PM by President, Steve Luchuk, N4UTQ.

There were 28 Attendees which includes 1 visitor and 0 new members

The meeting opened with the Pledge of Allegiance.

Secretary's Report: Minutes of last meeting published in the News Letter. Membership voted to approve.

Treasurer's Report: John Webb gave his report stating the club had \$4517.93 in checking, \$1160.53 in the equipment fund and \$172 from the radio raffle. Del Anderson is selling raffle tickets on a hand held radio to raise money for the Education Fund. Membership voted to approve.

Vice President's Report: Del Anderson introduced Dave Lerret who briefed the group on the March 14, 2015 MS Walk to be held at Viera. About 10 radio operators are needed to walk with the MS supporters. Volunteers are encouraged to contact Dave.

Del discussed the antenna and tower components (Beam Antenna, steel tower, baluns, old cable) in back yard of Red Cross facility that belong to the club. Members that are interested should make a financial offer to the club for these items. These items are offered "as is."

Red Cross tower project is moving slow. Red Cross reorganization is overshadowing project.

Del identified that early planning for 2015 ARRL Field Day has begun. He also discussed upcoming special event stations. First is a Halloween event (for fun) on Halloween weekend (contact K4UZM for more info) and then a Veterans Day special

event station (Contact N4UTQ) on Nov 11th at the Veterans Memorial Museum on Merritt Island.

Discussed the program schedule for the remainder of the year and encouraged Radio Club members to share their desires for programs for 2015. Program slots from July through November of 2015 are open at this time.

Tech Committee: Bob Kisko reported that the "37" machine is in good working order, the "440" SAR net repeater is in good working order and the "88" is in work. Further troubleshooting has indicated that the Receive Channel "stop band" filters on the Duplexer were going to be retuned. Retuning is in process.

Emergency Coordinator's Report: Stan Harrell reported that the HAMS in the county had successfully got the County Commission to re-instate all of the 2003 Antenna Tower provisions that had been removed or modifies in the 2014 update. Secondly, a SET (Simulated Emergency Test) has been scheduled for Oct 18, 2014 from 10AM to 12 Noon. This year's test will simulate a terrorist attack that has wiped out the county electrical grid and test the county's response to that emergency. Stan needs radio operators for 6 shelters with an additional 4 back-up operators. All operations will be simplex and on backup power! Volunteers can operate from home or from the designated shelter locations. Contact Stan for more information. A class regarding operations will be held a Ray Kassus' Radio Station after the SET.

Training/Education: Dave discussed a handheld radio raffle to raise money to pay for supplies needed. He is currently running a training class

where the trainees take a 10 hour computer class supplemented by a Hands-On training supported by Club "Elmers".

Red Cross Liaison Report: Greg O'Neill identified that the Red Cross was in the midst of its reorganization and he would discuss its ramifications once the Red Cross makes a formal announcements.

Other: Steve Luchuk discussed a new Morris Code practice session to be conducted on 10 meters (28.180 Mhz) on Tuesdays and Thursdays at 7:30 PM. The "37" repeater will used for voice coordination of the practice activities during these times.

Old Business: None

New Business: NONE

Program: Kevin Raulings (KK4DNI) conducted a presentation and demonstration of the use of WIFI equipment in the setup of a wireless network and how such a network could be used for remote operations of HAM gear. Kevin was applauded by the club members for a well done program. Thanks, Kevin!

Meeting Adjourned at approximately 8:45 PM.



437 S. BABCOCK ST.
MELBOURNE, FL 32901
Ph) 321-727-2311
Fax) 321-727-2312



DISCOUNT ELECTRONICS

HAM&CB EQUIPMENT
SECURITY SYSTEMS
BATTERIES(ALL TYPES)
REPAIRS(ALL TYPES)
ANTENNAS - TOWERS
2-WAY RADIO EQUIPMENT

"SALES AND SERVICE"
TELEPHONE SERVICE
COMPUTER REPAIR
STEREOEQUIPMENT
POWER SUPPLIES
TUBE EQUIPMENT

2013 LINE LISTINGS ** THE ONLY REAL PARTS STORE LEFT IN SOUTH BREVARD **

AIM
ALINCO
ANTENNACRAFT
ANTENNA SPECIALISTS
ARRL
ASTATIC
ASTI

BEARCAT
BECKMAN (WAVETEK)
BUSSMAN FUSES
BUD

C.B.RADIO
CALRAD
CORNELL DUBILIER
CELLPHONE AMPS
CHICAGO MINIATURE
CINCH JONES
CLOVER
COBRA
CUSHCRAFT

DALBANI
DECIBEL PRODUCTS
DENNISON
DURACELL
DANTONA IND.

ECG (SEE NTE)
ELECTRONIC RESOURCES
ELECTROVOICE
EVEREADY

FANON-INTERCOMS
FLUKE (WAVETEK)

GC ELECTRONIC
GALAXY
GOLDLINE

HAM RADIO
HARADA
HITACHI
HYGAIN

ICOM RADIO

JSC WIRE
JW DAVIS SOUND
JVC PARTS

KENWOOD RADIO
KOSS
KESTER

LITTELFUSE
LOWELL

M & G
MALLORY
MACOM
MAXON
MIDLAND
MOTOROLA

NTE TRANSISTORS
NELLO TOWERS
NTE ELECTRONICS
NORMAN LAMPS

PANASONIC
PANAVISE
PHILIPS ECG (SEE NTE)
PHILMORE
PIONEER
POMONA
POWERSONIC
PRB
PROAM ANTENNAS

QUAM
QUEST

RANGER RADIO
RAYOVAC BATTERIES

RUSSELL IND.

SR COMPONENTS
SANYO BATTERIES
SHURE BROTHERS
SONY PARTS

SPECO
SWITCHCRAFT

TEI
TNR BATTERIES
TELEX - HYGAIN
TRIPPLITE
TUBES - ALL TYPES
TV ANTENNA'S

UNIDEN
UNIDILLA
UNION CARBIDE

VARCO
VALOR
VECTOR
VIDEO EQUIPMENT

W2AU BALUNS
WALDOM - MOLEX
WAHL-CLIPPER
WAVETEK (BECKMAN)
WILSON ANTENNAS
WILSON ELECTRONICS

YAESU

WEB PAGE:
www.tedcoelectronics.com

EMAIL:
tedco@bellsouth.net

Hours:
MON - FRI 9 AM - 5 PM
SATURDAY 9AM-3PM

TED - W4LR - GENERAL MGR.

DOTTIE - OFFICE MANAGER