

# The HIARC Bulletin

July 2017 Edition

## The Official Bulletin of the Harris-Intersil Amateur Radio Club

**Club Meetings:** Second Thursday of Every Month at Meemaw's Barbecue on Babcock Street between Palm Bay Road and Port Malabar Road. Supper is at 6:00 PM, and a short business meeting is at 7:00 PM. Our programs start around 8:00 PM.

**Club Station:** The club station is K4HRS in Building 15, Room 321. E-mail [fparsche@harris.com](mailto:fparsche@harris.com) to sign up.

**Nets:** The South Brevard Emergency Net meets every Thursday at 7:00 PM local on the 146.85 Mc repeater.

**HIARC Website:** <http://qsl.net/hiarc>

**Repeaters:** 145.47 MHz, tone 107.2 cycles, elevation 170 feet, Melbourne

**HIARC Web Site:** [www.qsl.net/hiarc](http://www.qsl.net/hiarc). Website administrator; Jim, KC7SSW

**Officers:** President: Francis Parsche ("Butch"), WA4AQV

Treasurer: Bill WA4EMU

Secretary: Jim, KC7SSW

Repeater Chairmen: Bud W4HXP

Program Chairman: Eric N4SCS

Field Day Chairman: TBD

Sunshine Officer: Open

Club Jester: Ken N8KH

### **Membership:**

Dues are \$12.00 per year to:

Bill WA4EMU

**Annual Events:** Annual swap-fest at the September meeting. Field Day (always the fourth full weekend in June) at Grant Community Center Fairgrounds, Field Day web site link <http://sites.google.com/site/hiarcfieldday2013/>

**Selected Hamfests:**

August 12, Fort Pierce, indoors details [American Radio Relay League | Ham Radio Association and Resources](#)

October 13, 14 Melbourne, <http://pcars.org/>

### **Ham Radio Lunches:**

Every Friday, 10:30 AM till 12:30 PM or so, Golden Corral on Palm Bay Road in Palm Bay

Every Friday, 9:00 AM till 11:00AM or so, Umpa's Diner, 1115 N Courtenay Pkwy, Merritt Island, FL 3295, (321) 454-3422

### **President's Message**

Field day went really well. Some 6 meter contacts Sunday morning We had a public official visit. The mayor of Malabar is KA4ZEC. Thanks to all who participated and especially Bill WA4EMU who set it up.

The program will be on radio astronomy and the Green Bank telescope (antenna). Good food prizes and friends as usual.

73's

Butch WA4AQV

### **How Light Bills Used To Be**

Reddy Kilowatt was the mascot of utilities nationwide in the 1950's and 60's. He was there to teach safety and encourage increased electricity usage. There were Reddy Kilowatt cookbooks to help us to cook better electrically, and Reddy Kilowatt kites to remind kids not fly them into power lines. But by the 1970's conspicuous energy consumption had become bad manners and mascots like Reddy Kilowatt began to disappear, along with the humor that he conveyed. Gone but not forgotten, here is the Reddy Kilowatt way to pay your 1950's light bill:

Form 103. 6-7-'54-5M

METER NO. 7329

ELECTRIC

9-170.  
ACCT. NO. 244

**REDDY KILOWATT NEEDS YOUR HELP!**



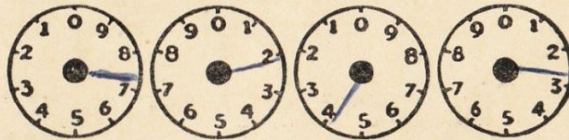
**DO IT NOW**  
Don't forget to  
sign, date and  
mail. Thank You.

*Reddy Kilowatt*  
Your Electric Servant

**EDISON SAULT  
ELECTRIC CO.**

We have been unable to get in to read your meter this month.

Please mark the **EXACT** positions of the hands as they appear on the dials of your electric meter on the corresponding dials shown below and drop card in nearest mail box. Thanks!



Signed

*Mrs Paul Byr*

7242

Address

*Shallows R2 Box 43*

Date

*8-29-56*

## PCARS 146.85 Repeater Fixed

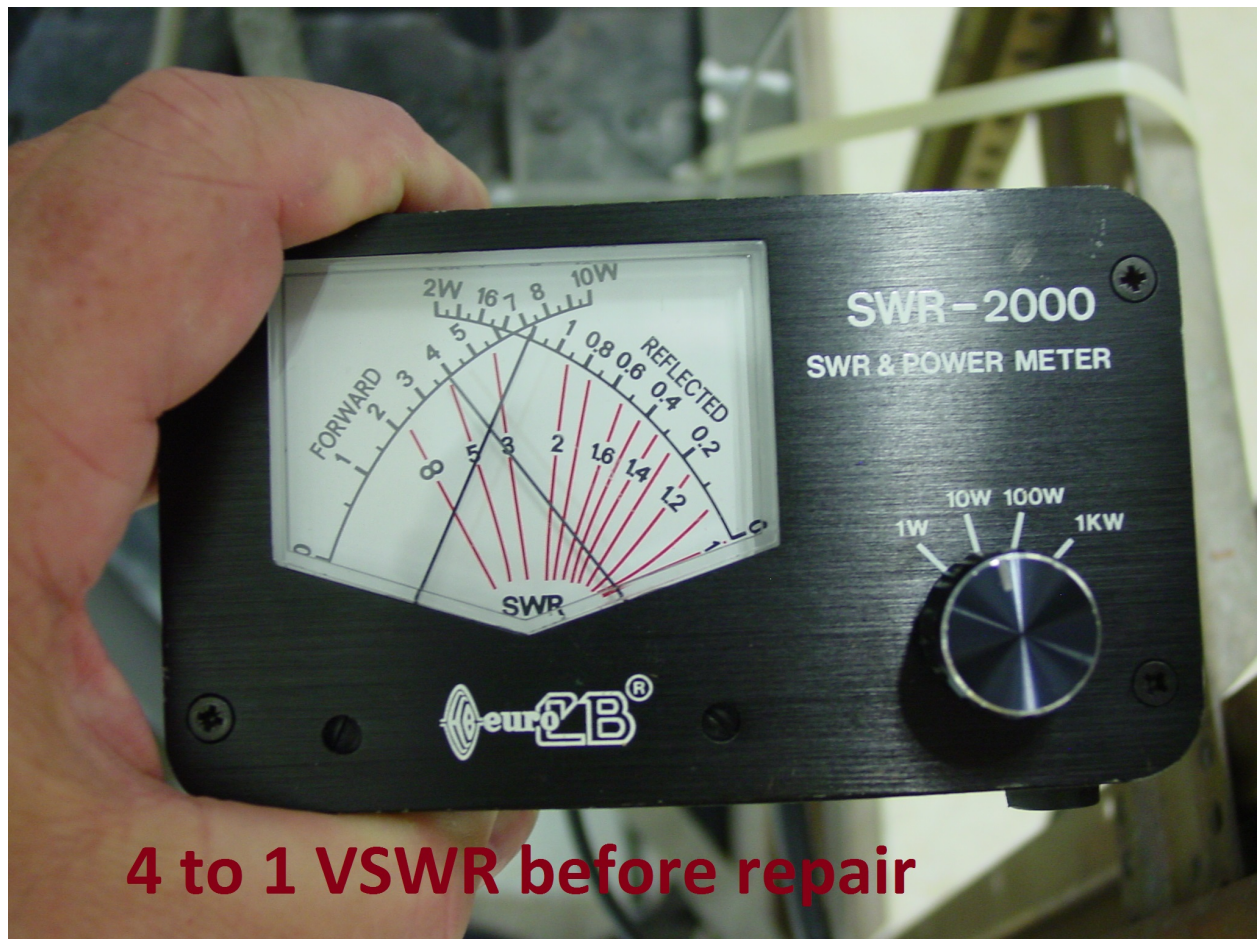
The PCARS 146.85 Mc. repeater antenna was fixed Wednesday 6-28-17 by replacing a portion of the coax cable. Pictures follow. VSWR before the repair was 4.1 to 1 and VSWR after was 1.2 to 1. Damage had occurred in Hurricane Matthew. The antenna is mounted at 300 feet on the Harris Turkey Creek tower in Palm Bay.



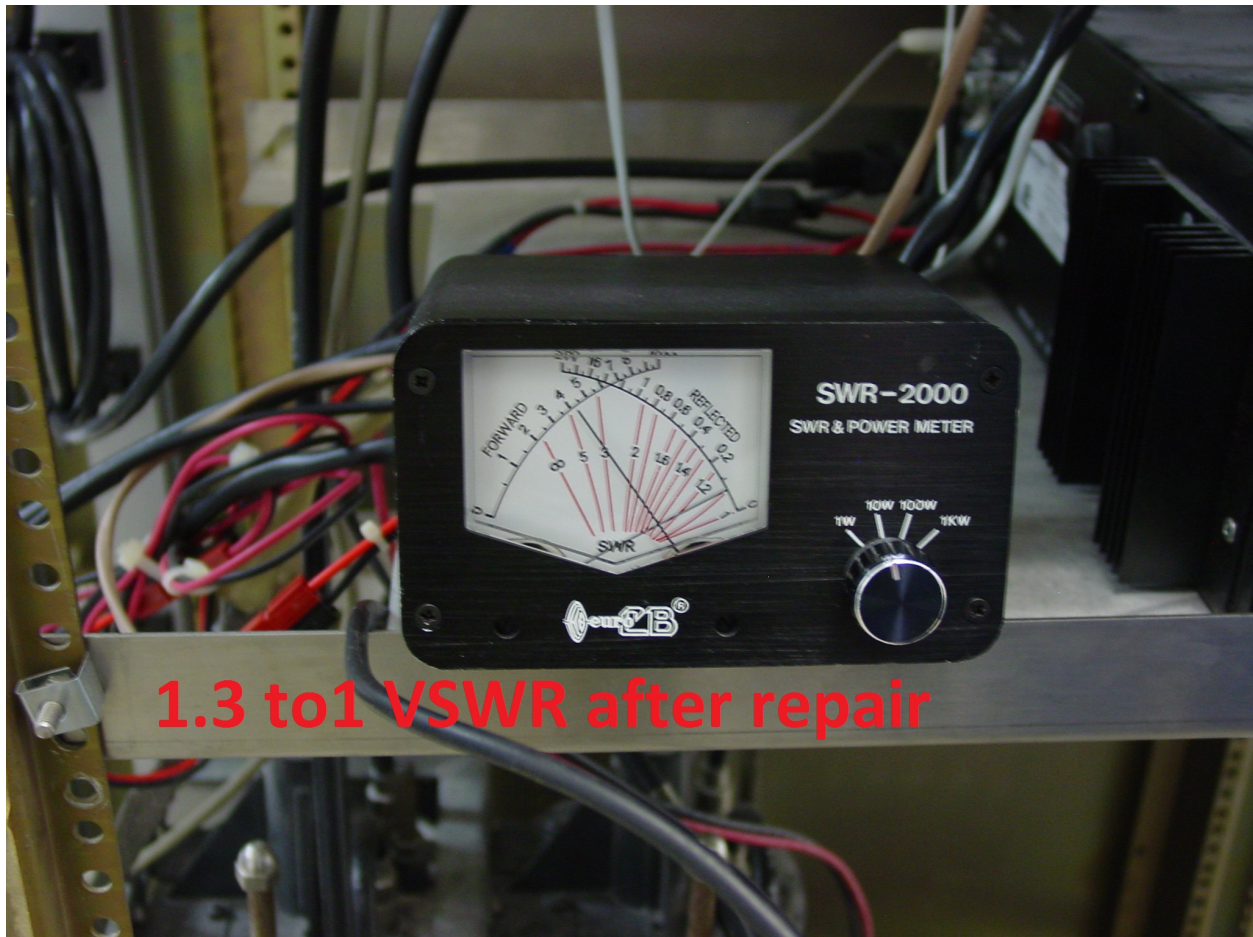
The 85 repeater antenna is a 4 element DB224 type folded dipole array of 8.1 dBi gain <http://www.commscope.com/catalog/wireless/pdf/part/15440%7C15295/DB224-A.pdf>. Smooth earth optical line of sight for this antenna is 21.1 miles. 4/3 earth propagation is 24.2 mile. The repeater often reaches further and shorter distances depending on many factors.











## HF Communications at the Battle Of Arnhem

Operation Market Garden and the Battle of Arnhem was famous WWII battle to take the low country bridges. One of the problems was failed communications. Ground wave near 80 meters was mostly used rather than HF near vertical incidence (NVIS). Here is an interesting analysis:

<http://www.atdi.co.uk/download/white-papers/Communications%20at%20the%20Battle%20of%20Arnhem%20-%20technical%20analysis%20%28White%20Paper%29.pdf>

## Maritime Morse Code Returns

Morse code safety of life communications ended at sea in 1997. That year the compulsory/ legal requirement for having a trained morse radioman and ship 500 KHz capability was dropped for large ships. Yet the system of morse code and the 500 KHz international distress frequency worked well for 80 years, having been formalized not long after the Titanic disaster with improved procedures and the 500 kHz frequency formalized.

Maritime morse code lives on every year in the annual "Night of Nights" celebration when the museum ships and shore stations reactivate on 500 kHz for another evening of transmissions. The American Victory out of Tampa has been copied here on 500 kc.

<http://www.americanvictory.org/>

"Night of Nights" will occur just after the next PCARS meeting, and just before the next HIARC meeting.

[https://www.NPS.gov/pore/planyourvisit/events\\_nightofnights.htm](https://www.NPS.gov/pore/planyourvisit/events_nightofnights.htm)

73,

Ken N8KH

## Ray Kassis Honored

