**The HIARC Bulletin**

January 2022 Edition

**The Official Newsletter of the Harris-Intersil Amateur Radio Club**

**Club Meetings:** Second Thursday of each month at Meemaw’s Barbecue on Babcock Street between Palm Bay Road and Port Malabar Road. Supper is at 5:30 PM, business is at 6:30 PM. Prizes at 7:00 PM. Our programs start at 7:15 PM. Meeting ends by 8:00 PM. As some members have allergies, we kindly ask that you refrain from wearing fragrances thanks.

**Club Station:** Building 15, Room 321.  E-mail Butch for access.

**Repeaters:** K4HRS,145.47 Mc, tone 107.2 cycles, elevation 170 feet, Melbourne. Works good, repeater has sensitive receiver and the site is quiet.

**Nets:**

The nets change often. At one point they were:

* HIARC Emergency Net: Sundays 4:00 till 4:30 PM 145.47 MHz repeater
* South Brevard Emergency Net: Thursdays at 7:00 PM. 146.61 or 146.85 MHz repeaters

**HIARC Web Site:** <www.qsl.net/hiarc>. Website administrator; Jim , KC7SSW

**Officers:** President: Francis (“Butch”), WA4AQV

Treasurer: Pat KA4ZEC

Secretary: Open

Repeater Chairman: Clyde KD8AN

Program Chairman: Open

Field Day Chairman: Open

Sunshine Chairman: Open

Club Jester: Ken N8KH

**Annual Membership:**

Annual dues are $12.00. Join at the meeting or send a check to:

HIARC Treasurer

Pat , KA4ZEC

We are on a calendar year dues system with annual dues due in June. Dues are prorated by a dollar a month so if you join in April they are $2.00 to get to June, or you can pay ahead thanks.

Send me your email address to receive the newsletter: francis.parsche@l3harris.com

**Ham Radio Lunches:**

* Every Friday, 11:00 AM till 1:00 PM or so, Golden Corral on Palm Bay Road in Palm Bay. Around 12 people recently and growing.
* Once a month, the Saturday after the PCARS meeting, Sarno Restaurant and Pizzaria, 11:00 AM. Talk in 146.61 repeater. This is at the corner of Sarno Road and Croton Road.

**Our Next Monthly Meeting**

Our next HIARC meeting is Thursday January 13 in the Babcock Street Meemaws Barbecue Banquet Room. Supper starts at 5:30 PM. We vacate the room at 7:50 PM. Program will be a show and tell by Clyde KD8AN on a 500 kc to 2 mc ferrite rod antenna for locating interference. Also tips on how to use tin foil to shield battery AM radios for better nulling.

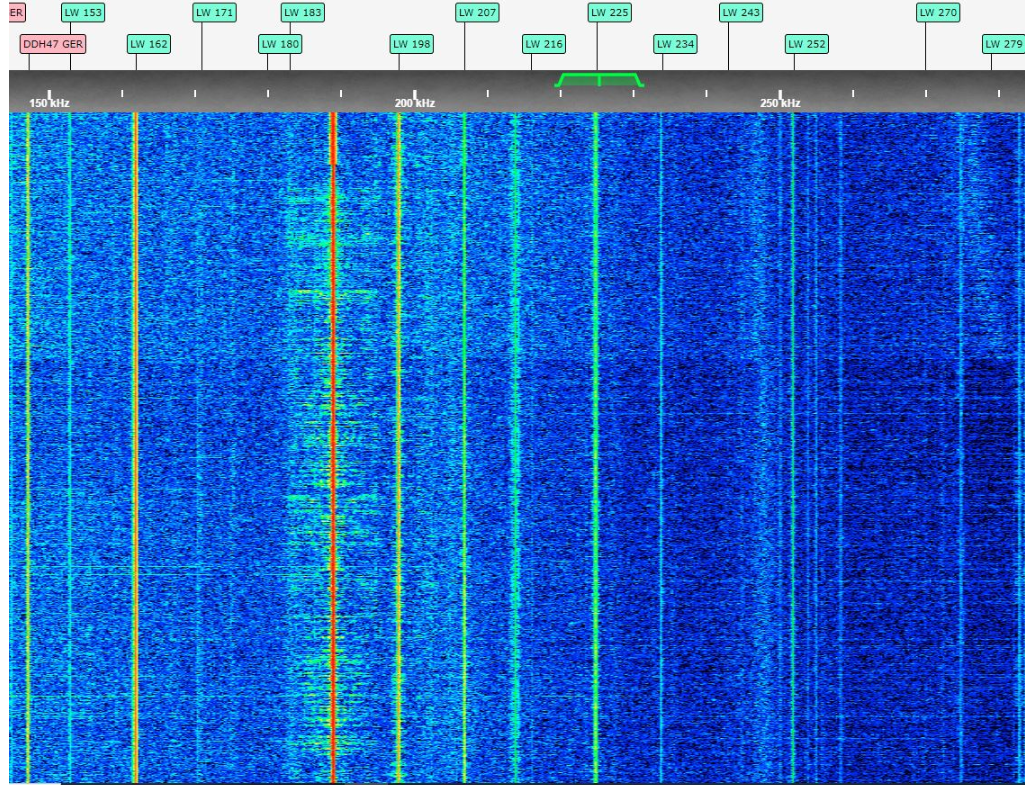
Looking forward.

Butch WA4AQV

**European Longwave Stations**

In addition to 540 to 1600 kc AM standard broadcast band Europe has a longwave AM broadcast band from 151 kc to about 270 kc. Longwave stations run voice.

Here is a look at the longwave spectrum in the middle of the day in Europe as received at a quiet site at the northern tip of Norway. Propagation at this time of day is ground wave and not via the ioonosphere:



**Longwave Broadcast Stations Midday In Europe As Received In Northern Norway**

French programming from radio station Medi 1 can be seen at 171 kc received at a distance of 2660 miles. The Medi1 station transmitter is in Morocco, has a transmitter of 1600 KW output power and with the three element antenna array about 10 megawatts of EIRP. Really something. It broadcasts in French part of the day and Arabic other parts of the day. There are more longwave stations receivable at night there when the ionosphere opens up.

There is no longwave broadcast band in the Americas. Occasionally the European Longwave stations can be heard here. Mostly at night in remote locations far from interference and after sunset in the winter. Better yet near the bottom of the sunspot cycle. I’ve heard the BBC Droitwich on 198 kc at the west end of Malabar Road. There is a boat ramp in the swamp there, er excuse me wetland. 198 kc can also have a CW navigation beacon from Dixon, North Carolina in frequency sending DIW

Longwave stations have big light bills. One estimate for Medi1 at 60 percent efficiency is 2500 KW from the power line. At 15 cents a KWH that would result in a light bill of $336 dollars an hour. Some times there are soccer games and everyone is excited in French. That must really make the meter jump. Plus those francophone modulation peaks may be hard on the modulation transformer. I knew of a RCA BTA-10 10 KW AM transmitter on 990 kc in Orlando that used to burn up modulation transformers. It was the rock format, all those power chords and square waves. Imagine the peak voltages on those windings.

You can go and listen to these big Longwave stations from your PC using remote receiver sites in Europe, while the modulation transformer lasts. Here is the KiwiSDR remote receiver website: [www.rx.linkfanel.net](http://www.rx.linkfanel.net)

Butch WA4AQV

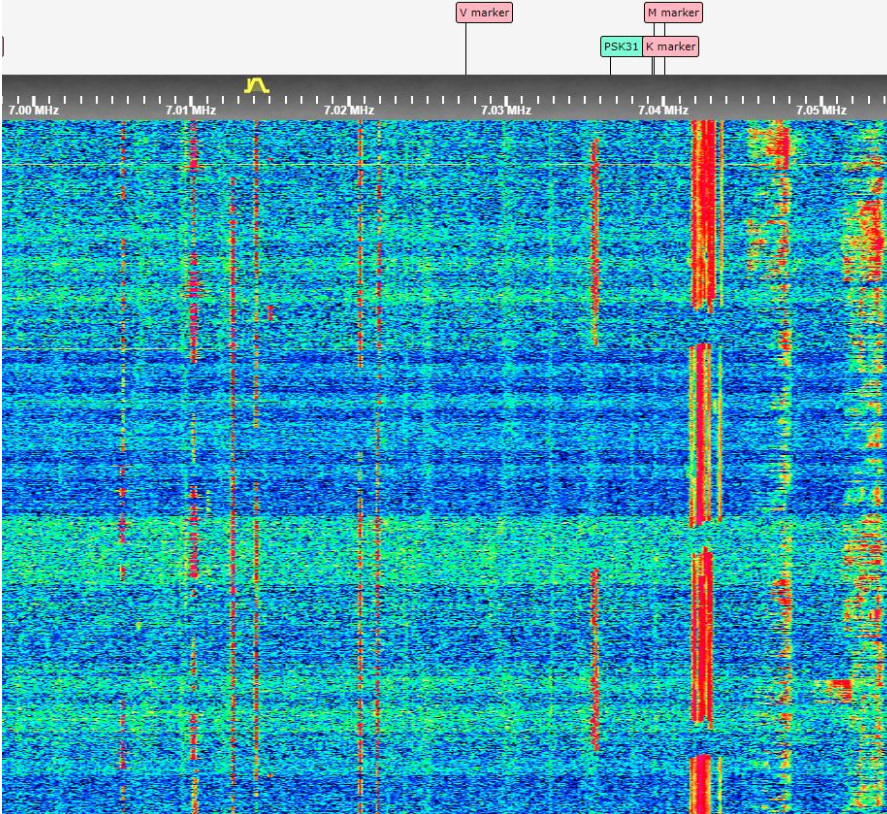
**QST Cover**

Our own Bill Rogers K2TER is on the cover of the February 2022 QST. Bill Rogers works at RF-Communications in Rochester, NY.



**CW In Japan**

Here is a waterfall screen shot of the 40 meter CW band spectrum in the middle of the Japan day from Fukashima Japan. Japanese amateurs are quite active on code. Their conversations are about 80 percent english with goodbys and such in japanese. They are always very courteous.



**40 meter midday CW band from a receiver in Japan**