

CAARA NEWS



Cape Ann Amateur Radio Association
December 2017 Edition



President's Corner

by Jon- K1TP

Another month flies by at CAARA but not without many activities for interested members.

We had our first member meeting with lunch on Saturday, November 11, it used to be on Wednesday nights. We had a good time and hope more members make it next time. Bill- W1WMM cooked a great lunch.

Our December Member Meeting is also our annual Christmas Party. You should be receiving a call from a board member asking if you are coming so we can plan accordingly. The date is Saturday, December 9th at noon, we really hope you can spare the time for a fun event! We put a lot of time in planning it and cooking food and really would like to catch up with you and see what you have been up to.

We are making another attempt at getting a remote HF station up and running soon. We are in the process of selecting a radio and software which is easy to operate remotely. Please have patience with us, we are just volunteers and it takes time getting everyone on the same page.

The siding project is done and looks great and adds some insulation quality to the building which might help our heating bill. Our new corner neighbor has met with us and is very nice, a young couple who will be cleaning up the house, yard, and erecting a fence this spring. If you see them on the corner, go over and say hello and introduce yourself.

Bill- W1OTK and Ernst- KD1JQ have been working upstairs on renovating old radios. They have fixed the donated Yaesu FT101, actually a German equivalent to it, and have been reviving an Eico 720 transmitter and matching modulator. They have already fixed the



donated HW101 Heathkit which had a connection problem...thanks guys for the effort! We have lots of radios to repair, why not show up Tuesday afternoon/evening and help them out?

Gardi- KB1BTK and Bill- W1WMM are doing a great job with the General Class Upgrade Course at the club.

Information Desk

by Dean- KB1PGH



If you haven't heard yet the ARRL is looking to revamp the Technician Class license. They are looking into making a whole new license or change the current one. It looks like they are trying to get the new Techies more spectrum space to operate CW and digital mode so we will see what happens.

In other news it looks as if the Icom IC 7610 SDR rig will be released this month for a price tag of over \$3000 so if you got some cash lying around you may want to look into that.

Coming up for 2018 the World Radio Team Championship will be held the last one was held in 2014 in Massachusetts. The current sunspot cycle will be winding down in 2019 so be prepared for no sunspots for a while, actually they are pretty scarce right now. The ARRL is coming out with their yearly Handbook and for 2018 they will adding a new section on software defined radios due to the increasing number being released. The new handbook as a bunch of revisions so you may want to check it out.

If you are looking for a new rig Ham Radio Outlet usually has some great Black Friday deals which go into December so take a close look at that. I'm going to start adding contest dates to the Information desk columns

Cont. P3)

Member Christmas Party
Saturday, December 9
at Noon at the Club

CAARA Newsletter
Cape Ann Amateur Radio Association
6 Stanwood Street
Gloucester, MA 01930

CAARA Newsletter is a monthly publication of the Cape Ann Amateur Radio Association (CAARA).

It is the policy of the editor to publish all material submitted by the membership provided such material is in good taste, relevant to amateur radio and of interest to CAARA members, and space is available. Material is accepted on a first come, first serve basis. Articles and other materials may be submitted by internet to Jon at k1tp@arrl.net. If possible, material should be in Word format. Material may also be submitted as hard copy to Jon-K1TP or any Club Officer.

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Jon Cunningham- K1TP Editor
Dean Burgess- KB1PGH Reporter

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Welcome to CAARA:

CAARA, an ARRL affiliated club, operates the 2 meter W1GLO repeater on 145.130 MHz with antennas located on the ATT cell tower in the Blackburn Industrial Complex in Gloucester Massachusetts. It has an average effective radius of 60 miles, and serves Eastern Massachusetts, Cape Cod, Rhode Island, Southern New Hampshire, and maritime mobile stations.

CAARA also operates the W1GLO repeater on 224.900 located at the CAARA clubhouse.

The former W1RK 443.700 repeater is now on the ATT cell tower in the Blackburn Industrial Complex with greatly enhanced performance.

The Association is one of the few amateur radio clubs that has its own clubhouse. Located at 6 Stanwood Street in Gloucester, it includes a permanent HF station with beam, vertical/wire antennas along with an operating 2 meter packet station as well as 2/440 meter voice and 220 MHz Transceivers.

Amateur radio exams are held on the second Sunday of each month at 10:00 AM at the CAARA clubhouse. Anyone who is considering a new license or an upgrade, is welcome to test with us. There is no pre-registration necessary. Contact the head of our VE team Rick Maybury if you have any questions about monthly testing.

Monthly member meetings are held on the first Wednesday of each month at 7:30 PM except for July and August.

Each Sunday evening at 9:00 PM, the club operates a 2 meter net on 145.130. This is an open and informal net which disseminates club news and prepares operators for emergency communications work. All are invited to check into the net as club membership is not a requirement.

New! The club is open every Tuesday from 5-8PM for CAARA members to stop by and socialize, as well as use the extensive collection of ham radio gear.

to hopefully remind others to get involved in these events as opportunities to get on the air. For December we have the ARRL 160 meter CW contest on December 1st through the 3rd. On December 9th and 10th we have the ARRL 10 meter CW and SSB contest. This is a great opportunity for all the Techies out there to get on the air. The last one is the ARRL Rookie Round up which is CW only and is for any one licensed from 2015 onwards. That's it for now. See you next month!



A look at Common mode chokes

by Dean- KB1PGH

As you know in ham radio our HF rigs have to fight with all of the man made electrical noise caused by power lines and a wide variety of household electronics. I operate portable HF so I am always using a switching power supply. As you may know switching power supplies make a racket on HF.

I have an Alinco power supply which has a noise offset which moves the switching noise to another frequency but it still is aggravating.

So I heard offhand about an item called a "Common Mode Choke" that hams have been using to put an end to EMI and RFI getting into the receiver part of their HF rigs.

I will go a bit more into how CMC's work in next months newsletter but for this month I will tell you how I "Sort of" stopped the switching noise from my power supply from getting into the receive side of my Icom 7300. I found a common mode choke in the form of a 2.4 inch ferrite torroid core. As you can see in the photos the size of the core in regards to the DC power cable. I bought two of these cores and wrapped the DC power cable around each core at least 7 times. The whole point is the cable has to be wrapped around the core enough times so there is enough impedance built up to stop the EMI and RFI from getting into the rig. The ferrite and ceramic core change the RF interference into heat where it dissipates instead of going back into your rig. I held the cable each core with some electrical tape. I then tested to see if it worked and to my amazement it did! The switching noise on my rig was gone from the receive end of the Icom 7300. Now, remember when I said that I "Sort of" topped the noise? So I was all excited to have to have no noise the next time when I worked portable and guess what-the switching noise was back on the HF bands from the

power supply! What I have now found out is that when I tested it the first time I did not have an antenna attached to the rig. So the switching noise must now be coming through the antenna-UGH! So another lesson learned. That's why they call it "amateur" radio!

Next month I will tell you about my next step in getting this noise out of my rig. By the way, I bought the ferrite cores for \$18.00 a piece at www.myantennas.com.

I strongly recommend looking into and learning about common mode chokes for eliminating EMI and RFI in your ham radio HF endeavors



**PLEASE DON'T FORGET TO PAY YOUR
MEMBERSHIP DUES FOR 2017-2018.**

**DROP A CHECK IN THE MAIL OR PAY
ONLINE AT CAARA.NET**

Pay Dues

VE TESTING AT CAARA



Photo above: Rick- WZ1B and fellow VE's administering exams in November at the club.

Mysterious Signals Did Not Come from Missing Submarine; MF/HF Frequencies Listed

Satellite signals heard over the weekend did not come from a missing Argentine Navy submarine San Juan that went missing on November 15, dashing hopes that the vessel could be located. The submarine had reported a malfunction, had surfaced, and was headed back to its base when the Navy lost contact with it. The sub, built in Germany in the 1980s, carries a crew of 44.

Vessels from Argentina, the US, Great Britain, Chile, and Brazil have joined other vessels and aircraft looking for the submarine.

A Naval commander told media today that the submarine had surfaced and reported "an electrical problem" before it disappeared some 270 miles off the South American coast on its return to its base at Mar del Plata.

Over the weekend, Argentina's Defense Ministry reported receiving seven "failed satellite calls" that officials thought might be coming from the missing submarine. No contact was made, and no transmissions occurred. Poor weather has complicated the search.

Over the weekend, IARU Region 2 News Editor Joaquín Solana, XE1R, issued a list of marine frequencies, suggesting that radio amateurs and SWLs listen for any signals that could be related to the missing San Juan. Frequencies are 2,065.0 kHz; 2,182.0 kHz; 3,023.0 kHz; 3,860.6 kHz; 4,125.0 kHz; 4,143.6 kHz; 6,218.6 kHz, and 8,528.0 kHz on HF, as well as 42.395 MHz, 43.040 MHz, and 84.470 MHz. The MF emergency frequencies of 416 kHz, 437 kHz, and 500 kHz also were suggested. **ARRL**

STUBBORN

By Curtis- AA3JE

The problem this time of year is always the catalogs. I have learned to ignore the on-line ads, but a catalog, especially in the morning when I am still sort of asleep, in the bath, catalogs are always a pleasure to leaf through. And this time of year, they want your business.

So when I saw an ad for a huge price reduction on a new model crane for pickup trucks, I was intrigued. Such cranes are used to lift heavy objects into and out of the truck bed, but have serious deficiencies. Modern pickups don't have the same beds as 40 years ago, and some manufacturers have even started using aluminum!

So to put a crane in right, you need a thick steel backing plate, and lots of bolts, and it means that you drive around with this crane sticking up, useless, until you need it.

So when I saw a neat unit, half ton capacity, that had folding legs, and slipped into the hitch receiver, that seemed like it was the nuts! And on sale, too!

So I ordered it. And each day, I would track it's progress.

Factory pick up check
UPS regional transport hub- check
MA regional transport hub- check
MA local UPS office- check

And there it sat. Day after day. Each day I would get a notice, "out for delivery", and each day, it never came.

Very disappointing. Finally, SHE WHO MUST BE OBEYED, noticed.

"WHAT DID YOU BUY NOW?" she asked in her sweet, paint-stripping tones.

"What do you mean?" I said.

"When a UPS truck goes by, you start salivating. Then when it passes by, you look miserable."

"I ordered a piece of machinery."

"OH GOD!" she said.

For some reason, when I order shop machinery it puts her in a religious mood. She starts praying.

But I resigned myself to waiting, and was taking a nap two days later, when she woke me up.

"WHAT THE HELL DID YOU ORDER, AGAIN?"

"A truck lift."

"WELL, WHEN YOU WERE ASLEEP, A UPS TRUCK CAME, WAS THERE A LONG TIME, THERE WAS A LOT OF CURSING, THEN IT DROVE OFF. "

"Cursing?"

"PRETTY LOW GRADE CURSING, ACTUALLY."

"SHE" is an expert on cursing, due to her years on the Navy. It makes listening to her cook breakfast really educational.

I went down to the driveway, and there, dumped in the middle of the driveway, was a box. Investigation showed it was marked with a picture of a hand truck, and that is weighed 157 pounds. This explained the delay and the cursing. Someone had drawn the short straw, and had been forced to deliver it.

I opened the box, and inside was a beautiful crane, and an instruction book in Chinese. Fortunately it had pictures. Even though it was dark, I put it together, and was heartbroken. The base had a 80 mm hole, and the crane assembly did not fit into it. It had been bored, then welded, and the pipe had distorted. The reason for the discount price became obvious.

Now I immediately reached for a big hammer, my usual solution, then paused. If I drove the bearing in, it would be rather hard on the bearing races, and I would never get it apart again. That meant I would



have to lift the thing in one piece every time I used it. Not good.

So I got out the vernier calipers, and measured. Bearing = 80 mm. Hole measured 80.16 mm in one axis, 79.13 in the other.

Yep, welding distortion when they welded on the lugs for the legs.

Now this was a problem. The assembly was too tall for the mill, and too big for the lathe. How to clean this up?

So I drove to Gloucester and tried to find a “ridge reamer”. This is a hand tool used for fitting new pistons into a car cylinder. Just the thing.

“I have not sold one of those for 40 years,” said the shop owner, “All the guys just take them to the machine shop, these days.”

I went to the machine shop. Yes, they could bore it. No, it was no trouble. Estimated cost, more than I paid for the unit.

So, heart in my boots, I went to Ace. Faithful Ace. Reliable Ace.

“I need an internal grinding stone.”

“Right here, Sir.”

So, armed with a small bit of emery on a shaft, I ground by hand for five minutes, at which time the stone was reduced to nothing.

Pipe diameter, 79.5 mm.

Six stones later, and after a flap sanding to smooth the surface, in it slipped.

“WHAT THE HELL ARE YOU DOING DOWN THERE? IT SOUNDS LIKE A TRIP TO A CLUMSY DENTIST’S OFFICE.”

“All done, my pet. Everything is fine.”

“WHAT WAS THE PROBLEM?”

“Bad quality control at the factory.”

“NEXT TIME JUST RETURN OR EXCHANGE IT.”

“All is well.”

I don’t return things. Stubborn, I guess.

Note to self: Do not use air hose to clean out metal filings from end of pipe. Use vacuum. Or if no vacuum available, wear safety goggles.



November Member Lunch Meeting



We had our lunch member meeting on November 11th at the club and enjoyed a hot dog, brown bread, coleslaw, beans, and brownies lunch cooked by the amazing Chef Bill- W1WMM. Bill took the initiative and got certified by ServSafe to run our kitchen. This will provide more attention to detail in the future in regard to food handling and cleanliness in the kitchen.

A good time was had by all, try to make the next one! Starting in January we will be doing breakfast on Sunday twice a month, stay tuned for details.

STATION OF THE MONTH: KB1BTK- Gardi



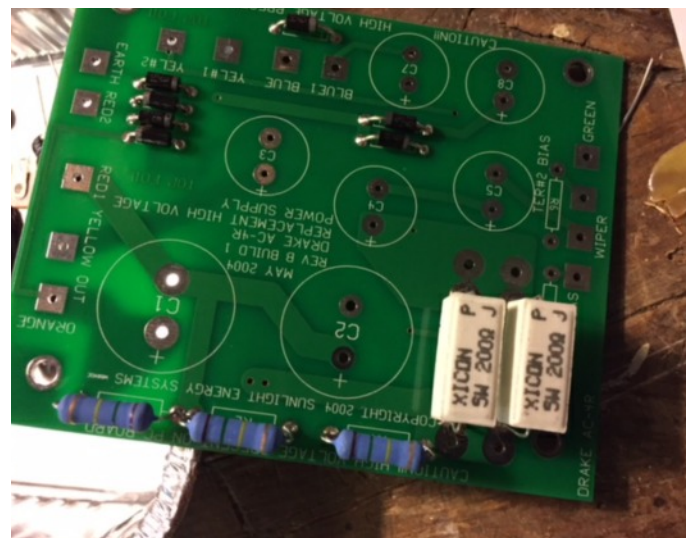
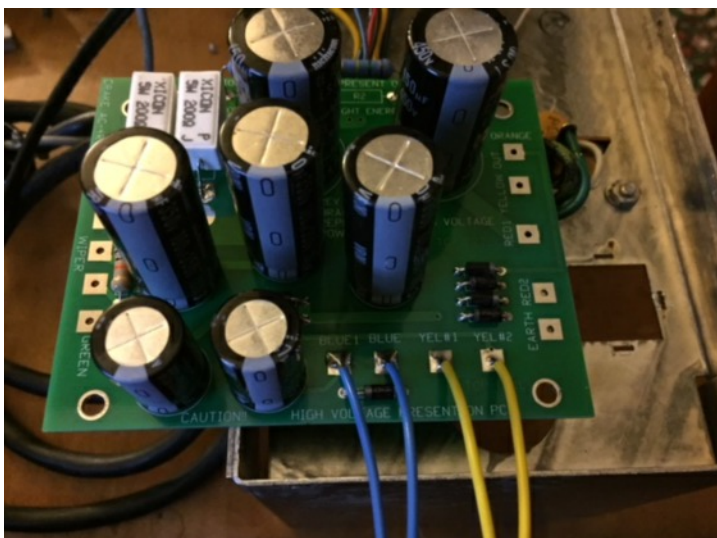
So, this is the new station QTH. I do not have a functional antenna system figured out as of yet, but the wheels are turning for "The Mackerel Jig", a 2 - 40 Meter bug-catcher type vertical antenna that will be remotely tapped, and "The Eel Trap", a 10 - 40 Meter double loop antenna that I will insist to my landlords is for satellite TV reception! The station will also be able to be quickly broken down and packaged to travel to any remote operation site with the old, faithful "Squid Jig" and the rest of the old system.

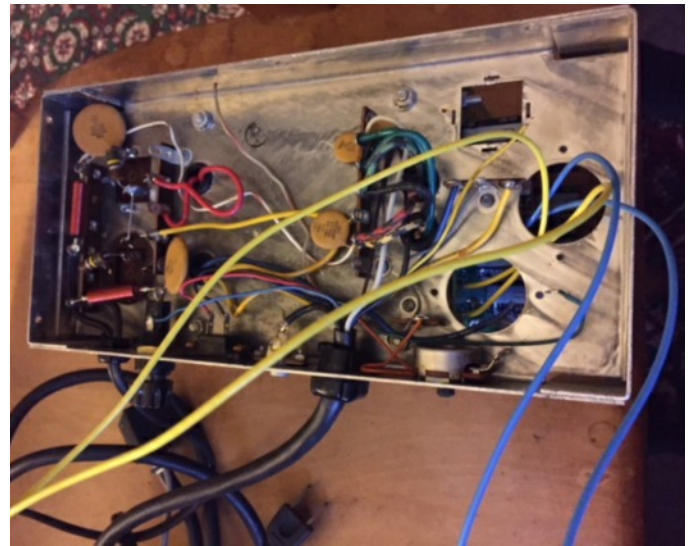
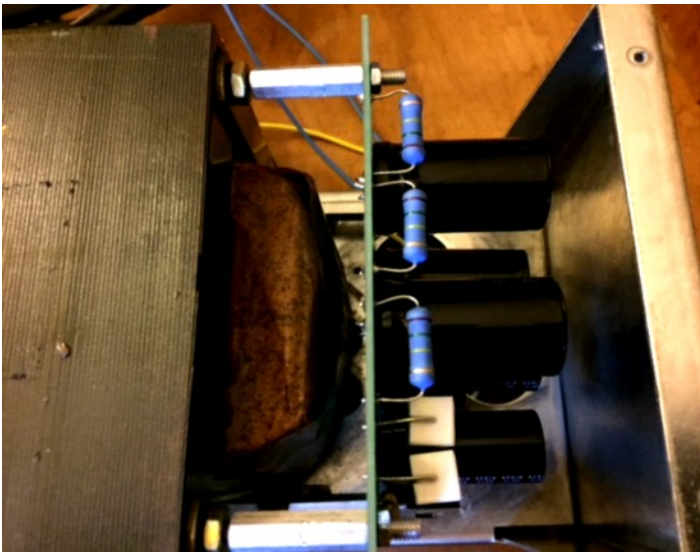
UPGRADING A DRAKE AC-4 POWER SUPPLY- 1970 ERA

by Jon- K1TP

I finally caught up with setting up my station and antenna at the new qth and decided I needed a little hands on project. I have been restoring some Drake gear for a friend and the matching power supply, the AC-4, needed an upgrade. This power supply was used to power up the very popular TR-4 series transceivers. This power supply was original and the capacitors were dried out from time and had started to introduce a hum into the audio.

I originally was going to replace all the diodes, resistors, and capacitors. I had the diodes, found capacitors at the club, and was going to order some 5 watt resistors that were needed. I took the covers off the supply and started to replace components but in the time frame of doing it I found a kit with a pc board that included all the components and made the completed job look a lot neater. I ordered the kit and it arrived in days and the instructions reminded me of the old Heathkit kits. So here we go, pictures of the restoration:





The final test, first plugging it in and making sure no smoke or crackling noises were detected. Then checking the voltages on the completed power supply board and then letting it run on my test bench for a few hours before putting the covers back on and installing it in the speaker enclosure.

The big check, plugging it in to the Drake TR-4 and watching it light up....so far so good. Next the bias has to be adjusted to .1 amp with a pot on the back of the power supply and read on the TR4 ammeter.

Next, connect a dummy load and tune it up....wow, it works. 180 watts out on cw as per specs in the manual. Disconnect the dummy load and connect the twin lead dipole and tune it up and make a contact on 75 SSB with the regulars in NH and Maine late afternoon on 3928.

I also did a lot of work to the TR-4 including steam cleaning the chassis, washing the tubes and straightening the pins, buffing out the cabinet, replacing a few components, replacing the blue light filters, and neutralizing the finals.



The completed job, it sounds great on receive and transmit. I also added a computer muffin fan on the back of the finals cage to keep things cool inside as recommended by Drake user groups.

I am looking for another Drake 2B to restore, I sold one and I still am kicking myself!

2018 WFD Rules at CAARA

Purpose: To foster Ham camaraderie, field operation, emergency operating preparedness, and just plain on the air, outdoor fun in the midst of winter for American, Canadian and DX Amateurs. Don't let those winter doldrums keep you locked up in the house... get out and play some radio!!

When: Winter Field Day runs for 24 hours during the last full weekend in January each year from 1900 UTC (2pm EST) Saturday to 1900 UTC (2pm EST) Sunday. For 2018, the dates are January 27th and 28th. Station set-up may commence no earlier than 1900 UTC (2pm EST) on Friday, January 26th. Station setup may consume no more than 12 hours total. How & when you schedule/spend those 12 hours is up to you.

Bands: All Amateur bands, HF, VHF, & UHF except 12, 17, 30 and 60 meters.

Modes: Any mode... CW, SSB, AM, FM, DStar, C4FM, DMR, Packet, PSK, SSTV, RTTY, Olivia, Satellite, etc...

Suggested Frequencies: (to make it easier for entrants to find each other)

HF CW – 1810-1820, 3.530-3.550, 7.030-7.050, 14.035-14.055, 21.030-21.050, 28.030-28.040

HF SSB – lowest 30 kHz of the US General Class Phone bands (160m- 15m), 28.400-28.425MHz (10m)

6m/VHF/UHF – adjacent to, but not on, nationally recognized simplex calling channels.

Entry categories: (...if operating as a group under one call, all stations in your entry must fit the category you choose. Also see further clarification in “definitions” below)

Indoor: Operation from inside a remote, insulated, heated (or cooled, depending on your local weather), and weather-protected structure where an Amateur station is normally not available. (Park buildings/cabins, community center, EOC, senior center, club shack, etc).

Outdoor: Operation from a location partly or fully exposed to the elements and at least 30 feet away from your normal station location and not using any part of a previously erected antenna system or ham station. A campground, park pavilion, canopy, picnic table, tent, pop- up camper, or a backyard shed/tent/deck, etc may be used. Operation from a non-insulated car/truck/van/boat (mobile or not) is considered “outdoor”.

Home: Operation from inside a home or inside another structure attached to a home that could or would be the usual location of an Amateur station (garage, sunroom, etc), generally using a previously erected antenna system. A “Home” entrant may still be eligible to claim the “alternate power” bonus if not using commercial power. Use of any pre -existing (on site) or permanently installed antenna system or station components renders your station a “Home” station.

Entry Class: your entry “class” is a number designated by the number of stations in your entry that are capable of simultaneous transmission. (Explained further in summary below)

Exchange: Your WFD exchange will be a combination of your “class” and “category” and your ARRL section as described below, using an appropriate letter designator or phonetics (examples: 1I, 2H, 5I, 6O, 3H, 9I, etc)

In short: Call sign, Class + Category, ARRL Section.

Example: K4YM this is KB8X, we are Two Hotel, Ohio ..or in CW: K4YM de KB8X TU 2H OH...

KB8X this is K4YM, thank you, we are Twelve India, West Central Florida ..or in CW: KB8X TU 12I WCF

In summary: There are only 3 categories of entry: Indoor, Outdoor, and Home as described above and in the definitions. Your entry class will depend on the number in your exchange. That number will be determined by the number of stations capable of simultaneously transmitting at your WFD site. If you only have one station set up, but plan on using it on several bands and modes (example: 160-2m, CW, SSB, FM, Digi, etc), the number in your exchange would be “1”. If you have 10 stations set up and operators working at all of them, regardless of bands, and modes, the number in your exchange would be “10”. If you have only two operators,

but have two HF stations set up and a third and possibly fourth station dedicated to VHF, UHF, or a Satellite contact, your exchange number would be “2”, as one op would have to leave a station idle to make contacts on the other. In other words, don’t count a station where one station has to be left idle to make contacts on another. Once you decide upon your number of stations (class), you must use it for the duration of the contest. There are no points awarded for number of stations and it does not affect your score.

QSO Points: 1 point per Phone QSO, 2 points per CW & Digital QSO... Busted exchanges will be penalized by 1 additional point for each missed exchange or call sign. Duplicate contacts (same call, band, and mode) will not be counted, but will not be penalized.

Mode and Band Multipliers: Count 1 multiplier for each mode operated per band. For example, operating CW and Phone on 80, 40, 15 and 10 meters, CW and PSK31 on 20m, FM on 2meters and 440 would be a total multiplier of 12x.

PHOTOS: These photos are from previous year Winter Field Day’s held at the clubhouse. We will run the event again this year, opening the doors on Saturday at 9AM, lunch will be provided.



How to start virtual Ham radio and why ?

Using virtual amateur radio via internet is very easy, you can use a computer, a mobile phone or a tablet to make QSO all over the world via virtual propagation. You only need a microphone like a headset.

Some people ask me why do you use virtual amateur radio ? My answer is because in my country with my call sign FØ i just have the right to use VHF and 10 watts, so i dont use my call on real amateur radio. On virtual Ham radio i can use all amateur radio band from 10 to 160 meter with 100 watts and the propagation is very realistic.

I have contacted 158 countries on hamSphere 4.0. I was very active on 27 MHz DX and as a SWL before using virtual Ham radio. Many operators who come from CB radio who are not amateur radio dream to use décametric band and this is possible on virtual amateur radio, they will receive a call like 2HS12345 is they are in USA, 26HS for England, etc.

So virtual amateur radio in not only reserved to operators who have an amateur radio call sign. Like on real radio we echange QSL cards (we use hamsphere to exchange the QSL so it is free, no post office, stamps, contribution, "green stamps", IRC etc !!!, we have contests, nice awards, CW, SSTV and many other modes. We have also DX expeditions, Castles, lighthouses and islands activations.

I just regret we don't have sporadique E propagation because it is imposible yet to have a virtual modelisation of this kind of propagation. Also we are not millions of user on HamSphere 4.0 but we can have very good antenna like 8 elements Yagi so event the propagation is not very good with our good aerals we can work the DX. If you download this program for a free trial you have a directive antenna VU2NSB fishbone aray and an antenna rotator with your 100 watts tranceiver so you can start fast to work the DX. Also many operators on real amateur radio have problems to use real antennas or to much QRM. I many countries Ham radio is too expensive. Many peoples also (exept in UK, Belgium where is a foundation licence) think the amateur radio exams are to difficult to go on shortwave bands. The virtual Ham radio is a good opportunity for many countries to have access to virtual amateur radio.

After the trial you can subscribe for 35 euros for one year. I hope i have explain to you what is virtual ham radio and why we can use it. I hope to make QSO with you soon on hamSphere 4.0.

Thank you.

Frank FØDUW

QTH Paris France

To have a free trial of hamSphere 4.0

<http://www.hamsphere.com/>

The logo for HamSphere, featuring the word "HamSphere" in a large, bold, yellow, sans-serif font. The letters have a slight 3D effect with a darker yellow shadow. A registered trademark symbol (®) is located at the end of the word.

DECEMBER BOARD MEETING NOTES

We met at the club on December 2 at 10am . We reviewed the budget, all is well and we have a balance of over \$17,000. We are in the process of collecting dues, we have collected about \$800 dollars of the projected \$3000. If you have not sent in your dues, please do so. **We need the dues to balance the budget.**

The building project is almost complete, the siding project is complete and looks great. The kitchen roof was replaced with a rubber roof. The painting of the trim will happen in the spring.

The Christmas Dinner was planned and we have about 25 planning on attending. Bill- W1WMM will be the main chef. The turkey was donated by Ernst and the Ham by Curtis and Linda.

The remote station we have been struggling with is now underway again. Larry- AJ1Z has loaded software on the laptop previously used by the Flex radio and is hooking it up to the club Yaesu FT 897. I hope we are on our way to finishing this project.

We discussed and approved changing the way the newsletter will be delivered. We will be sending the link to the monthly newsletter to ALL members and they have the option of asking not to receive it. Why would anyone not want to receive the newsletter? We also want to put a button on the cover page of the CAARA.net website with the current newsletter....no digging around for the newsletter and available to all, member or non-member.

We remind all members that the club is monitored by 5 cameras which record activity....we had to install this to prevent equipment from leaving the club without approval. If you wish to borrow something, get approval first from a board member and then sign out for it. **Just a reminder that you cannot take what you want!**

The January 13TH Member Meeting on Saturday at noon will include lunch and a hands on demo building copper pipe J Pole and ladderline J Pole.. We will have materials available to build your own if you wish.

The BOARD also wants to remind members that if you have something to donate, ask us first if we want it. We have received many items which we have had to cart to the dump....truckloads as a matter of fact. Do not leave stuff at the club without permission, thanks.

New Cuban movie features Ham Radio

From December 7, Cuba will celebrate the Havana Film Festival, and one of the movies features a cuban amateur radio operator talking to the MIR space station.

As we read on tiff.net: "As the Soviet Union crumbles in 1991, an amateur radio operator in Cuba makes unexpected contact with stranded cosmonaut Sergei Krikalev as he observes the dissolution of his nation from orbit, in Cuban director Ernesto Daranas Serrano's comedic yet poignant reflection on how big events can impact ordinary lives..."

Check the videos and pictures here (google translation available on the site) <http://ealuro.com/radio/peliculacubana/>

FCC Chair quizzed about AM Radio Revitalization

On Saturday, December 2, 2017 MSNBC TV host **Hugh Hewitt** had an exclusive interview with the FCC Chair **Ajit Pai**. It kicked off with the key issue of AM Radio Revitalisation

RF Pollution from power lines and various electronic devices has been raising the Noise Floor in the medium wave AM broadcast band. This is jeopardizing reception of AM broadcasts which can be especially vital in times of natural disasters.

Watch 'One on one with Ajit Pai' which also discusses Net Neutrality

<http://www.msnbc.com/hugh-hewitt/watch/one-on-one-with-ajit-pai-1108278339816>

YUKAN RUN ROAD RACE

COMMUNICATION- Public Service

December 3- Rockport/Gloucester

Net Control- Ruth-WW1N, Incident Command- W1TAT, Rover- W1WMM, Tail Car- KB1BTK and yl, Mile Markers- N1CDL, W4RIG, K1TP





The flooding almost impacted the finish line!

The races went very smoothly, a 2.6 mile race and the ½ marathon race. Ruth did a great job as net control and we only had one reported leg injury that Hank- W4RIG handled via net control.

Weather was sunny and nice, about 40 degrees and the race pace was fast.

Thanks to all who helped this season with Yukon run races, it resulted in almost \$3000 in donations to CAARA.

True “Painless Fund Raising” and great public service that keeps CAARA in the spotlight.



Good Harbor Beach parking lot flooded due to an unexpected exceptionally high tide...many runners let out bags, etc. that floated away...photo by K1TAT