



The Halifax Amateur Radio Club

# REFLECTOR



2050 Hammonds Plains Road  
Hammonds Plains NS  
B4B 1P3

June 2020, Volume 81 Number 6

**Due to the fact that we cannot pick up mail or hold an in person meeting all members of 2019 and 2020 will receive the Reflector**

HARC Club Station phone number - 902-490-6421

### Executive

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### Non Club Contacts

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RAC Assistant Director for HRM Scott Wood, VE1QD, 823-2191 ve1qd@rac.ca

All phone numbers must be preceded by area code 902 when dialling, unless otherwise indicated

**The June, 2020 General Meeting** of the Halifax Amateur Radio Club will be held Wednesday, June 17 - the method (**virtual - see page 3**) and time will be in a following article. Check your e-mail for details as the date approaches. Also check the web site for any other updates. **Currently there is no access to Station 50.**

**Due to the global pandemic most if not all events have been cancelled. See page 2 for coming events. You can also read about possible alternatives for some events in the following pages.**

Since the March meeting was cancelled we will attempt to approve the February General Meeting Minutes when we have a quorum at the next meeting.

### Take-15 Net Controllers

This will be the rotation. **We need more net controllers. If you want to join**, let Bill Elliott, VE1MR, know.



June	14	Cam	VE1BIT
June	21	Peter	VE1WIN
June	28	Gary	VA1GGM
July	5	Bill	VA1ALW
July	12	Cam	VE1BIT

Please send any issues (broken links, missing information, etc.) found on the H.A.R.C. Website to our Website Manager, Brandon Fowler, VE1BMF, at [bmfowler95@gmail.com](mailto:bmfowler95@gmail.com)

**Deadline for submissions to the July 2020 Reflector is Saturday July 4, 2020**

### GENERAL INFORMATION



Sunday evenings:  
TAKE-15 NET at 8:30 PM  
CLUB REPEATERS:  
VE1PSR - 147.270 MHz + TX=82.5  
VE1PSR/UHF - 444.350 MHz +  
VE1PSR/6M - 53.550 MHz -  
access and TX tone 151.4 Hz  
VE1HNS - 146.940 MHz - TX=82.5  
PACKET: VE1NSD 145.050 MHz  
LAN NODE

*Event for Your Calendar*

Field Day 2020 – June 27-28  
See other articles following.

*How many times is it appropriate to say "What?" before you just nod and smile because you still didn't hear or understand a word they said?*

Check into the Maritime Noon Net, week days at 12 noon on the Gore repeater, 146.640 – MHz

**2020 ARRL FIELD DAY OPERATING ALTERNATIVES**

Due to Covid 19 restrictions ARRL has made 2 waivers for 2020 only. The first is for class D stations so they can count other class D stations as well as all other classes for points. The second waiver allows single operators from a club to submit their individual score with the club affiliation. The individual scores will be published as usual but an aggregate score for the club will also be published separately. Single operators may enter one of the following classes.

**Class D - Home stations:** Stations operating from permanent or licensed station locations using commercial power.

Sub categories - According to the number of transmitters in simultaneous use, i.e. 1D, 2D, 3D etc.

**Class E - Home stations:** Same as Class D, but using emergency power for transmitters and receivers.

Sub categories - According to the number of transmitters in simultaneous use, i.e. 1E, 2E, 3E etc.

**Class B - One or two person portable:** A Field Day station set up and operated by no more than two persons.

Sub categories

- a) - According to the number of transmitters in simultaneous use and operators, i.e. 1B1, 1B2, 2B2.
- b) - e.g. 1B1C, 1B2C, 2B2C (portable, operating from a vehicle).

**Class B - Battery One or two person portable:** A Field Day station set up and operated by no more than 2 persons.

- a) power = 5 Watts or less gives a points multiplier of 5

Categories

- a) - According to the number of transmitters in simultaneous use and operators, i.e. 1B1B, 1B2B, 2B1B, 2B2B.

**Class C - Mobile:** Stations in vehicles capable of operating while in motion and normally operated in this manner.

- a) includes maritime and aeronautical mobile.
- b) if the Class C station is being powered from a car battery or alternator, it qualifies for emergency power but does not qualify for the multiplier of 5, as the alternator/battery system constitutes a motor-driven generating system.

Categories

- a) - According to the number of transmitters in simultaneous use, i.e. 1C, 2C, 3C etc.

For classes B, B Battery and C other provisions are the same for Class A except they are not eligible for a GOTA or free VHF station.

**NOTE:** - point multiplier for B, C, D and E are up to 150 Watts = 2 and over 150Watts = 1 (same power multipliers as Class A).

Read the 2020 ARRL Field Day rules carefully to maximise your score.

There may be other classes available if you have a household or bubble that has more than 2 operators - see the 2020 ARRL Field Day rules.

**SEE PAGE 8 FOR Q&A ABOUT FIELD DAY OPERATIONS**

*Safety***Voice Spoofing**

*From a warning to all their employees by an international company –ed*

We have recently observed a new wave of criminal scams in that fraudsters use new sophisticated voice recording technology to synthesize a person's voice and then use the computer generated imitation of that voice to trick potential victims to hand over money or company secrets.

Obviously this only works for pre-recorded voice messages, such as used on answerphones or message apps like WhatsUp.

Typically, the scam is to attempt to imitate a person of authority and then to instruct the unwary to perform a non-standard action, such as transferring money to a new account, contacting and disclosing secret information to a new 3rd party, or taking any other action that might benefit the fraudster.

What do I need to do?

Learn how to spot this new threat of voice spoofing. There are several tell tale signs to look out for to recognize this new scam:

It is typically based on urgency

It typically involves changing standard procedures

It typically involves a change to established banking instructions or a disclosure of confidential information

If you encounter any of the above tell-tale signs in a pre-recorded voice message, TAKE PROACTIVE STEPS to verify the request before taking any action. Contact the requestor directly

The **2020 Downeast Fleamarket** is cancelled for May and we are looking into possible dates later in the year. It might be likely that we cannot hold a flea market this year. We will book a date for 2021 while we are investigating what we can do in 2020.

**PRESIDENT'S MESSAGE for June, 2020**

Good evening everyone: it is that time of the month that lends itself to Field Day and the activities that go with this special event. This will be a drastic change to what we have done in past years thanks to this pandemic that has cancelled so many events not only in the sports world: entertainment :cultural and social events. Our Field Day is a victim. We tried to see if there was interest in a mobile 2A class, HOWEVER there was simply no interest in sitting in a car for a couple of hours with a laptop and so on. I understand that this would have been an absolute pain. Having said that, our club members can operate from the home qth using 1D OR 1E AND ANY MODE YOU WANT TO TRY. One provision that the ARRL has made is that if we send in our logs as individuals but type in HALIFAX AMATEUR RADIO CLUB and not the initials H.A.R.C. THEN THE ARRL will ACCUMULATE THE TOTAL OF THE MEMBERS WHO HAVE SUBMITTED SCORES.

The other note is that 1D can talk to other 1D stations where before they could not. If HARC IS TYPED IN our points could go to the Hamilton Amateur Radio Club in Ontario, so by typing our club name in full, our club gets the points which is VERY important.

There are many variations to using the home qth as your station in that you can operate under emergency power (generator) or battery power using solar charge and so on...rules are pretty broad in what you can do at home.

For those who like a challenge there are always contests to hone your abilities on most weekends which can prepare you for operations In an emergency. Lots of good stuff to learn and practice.

Propagation always makes for interesting qso's as there is fading, inversion and grey line conditions. This week I have worked Mali in Africa: heard the Mariannas and New Zealand. There are some good openings showing up. Mind you, with a better antenna than my vertical, opens up a lot more to various parts of the world. Power also helps as sometimes using a 100 watts in a pile up becomes part of the noise floor. Now technique comes into play as does the timing of your call, listen to who he is answering and how – is it the first call or the last he hears.

Really there is not much else happening in the club or else where, things are still pretty quiet. Everyone be safe and continue to do what the health people want us to do, for example is wearing a mask that not only protects you but others.

73 for now and more info will follow soon on our virtual meeting later this month.

Thanks.

Brian Allen- va1cc, President -HARC.

**Virtual June Monthly Meeting Notice**

The executive of the Halifax Amateur Radio Club has made the decision to try meeting 'virtually' in light of the current situation with the Club's meeting space where no one from the Club is permitted to enter the building. In order to do so, we have selected GoToMeeting which is a commercial service that has a good reputation and good performance along with budget friendly pricing.

Please note that Google Chrome, Mozilla FireFox or Microsoft Edge are supported browsers. Internet Explorer is not supported any longer. If none of these browsers are your default, then you will have to copy and paste the link into the address bar of the alternate browser.

The first meeting will be on June 17th at 7PM and

will use the following link:

<https://www.gotomeet.me/StationM/harc-monthly-meeting---june-2020>

HARC Monthly Meeting - June 2020

Wed, Jun 17, 2020 7:00 PM - 9:00 PM (ADT)

Please join my meeting from your computer, tablet or smartphone.

This meeting is locked with a password: password will be in the e-mail you get just before the meeting.

Note the case of the password – it is case sensitive!

New to GoToMeeting? Get the app now and be ready when your first meeting starts:

<https://global.gotomeeting.com/install/837852229>

If you download the app beforehand, there be very little delay in joining the meeting.

### AMSAT Spells Out its GOLF Program Objectives

06/03/2020

AMSAT says the aim of its developing “Greater Orbit, Larger Footprint” (GOLF) satellite program is to place amateur radio transponders in low-Earth orbit (LEO), medium-Earth orbit (MEO), and eventually high-Earth orbit (HEO).

“The goal of the GOLF program is to work by steps through a series of increasingly capable spacecraft to learn skills and systems for which we do not yet have any low-risk experience. Among these are active attitude control, deployable/steerable solar panels, radiation tolerance for commercial off-the-shelf components in higher orbits, and propulsion,” AMSAT explains. “The first step is to be one or more LEO satellites similar to the existing AO-91 and AO-92, but with technologies needed for higher orbits. With proven technologies, an interim high LEO or MEO satellite would follow on.”

AMSAT says the eventual goal is an HEO satellite similar to AO-10, AO-13, and AO-40, “but at a currently affordable cost combined with significantly enhanced capabilities, which, in turn, will allow the use of much less complex ground stations.”

From the ARRL web site

### Radio Amateur, Fellow Astronaut Headed to Space Station after Historic Launch 05/30/2020

A radio amateur is one of two NASA astronauts headed to the International Space Station (ISS) following a May 30 launch of a SpaceX rocket that marked the return of human spaceflight to US soil for the first time in almost a decade. The Saturday launch from Cape Kennedy also marked the first time humans traveled aloft via a commercial spacecraft.

Astronauts Bob Behnken, KE5GGX, and Doug Hurley had been set to go

### Field Day 2020 “A Time to Adapt”

Usually at this time of year clubs and individuals are actively preparing for the annual Field Day event. This year, Field Day will be held on Saturday, June 27 and Sunday, June 28, beginning at 1800 UTC Saturday and running through 2059 UTC Sunday.

Sponsored by the American Radio Relay League (ARRL) and Radio Amateurs of Canada (but organized primarily by the ARRL), Field Day is open to all Amateur Radio operators covered by these two IARU member organizations. Typically, clubs set up temporary stations and antennas in a park or field and operate off grid power.

Throughout its history, Field Day has provided an excellent opportunity to highlight the important contribution that Amateurs can make to society and especially in times of emergency. Field Day is “Amateur Radio’s open house” and clubs usually invite the media and members of the public to visit their stations and to find out what Amateur Radio is all about.

“GetOnThe Air” (GOTA) stations are also a regular component of Field Day which enables new and inactive Amateurs to experience firsthand the fun of Amateur Radio and to gain new skills by operating side by side with veteran Amateurs.

The framework for scoring in Field Day activities is established by the ARRL and on May 29, the ARRL Programs and Services Committee adopted two temporary rule waivers

for the event to allow greater flexibility in recognizing the value of individual and club participation regardless of entry class:

1) For Field Day 2020 only, Class D stations may work all other Field Day stations, including other Class D stations, for points.

2) In addition, for 2020 only, an aggregate club score will be published, which will be the sum of all individual entries indicating a specific club (similar to the aggregate score totals used in ARRL affiliated club competitions).

It is clear that Field Day 2020 will be very different from any previous event and it remains to be seen how many clubs and organizations will choose to participate in the event. It will also be very interesting to see how this year’s event will compare to the traditional Field Day given the current conditions and I look forward to seeing how clubs and individuals adapt.

It is of utmost importance, therefore, that all participants ensure that they stay safe and respect the specific rules and requirements in their jurisdiction – municipal, provincial, territorial or federal.

We would love to help your club or organization promote your Field Day activities both before and after the event. Please send any information to [tcamag@yahoo.ca](mailto:tcamag@yahoo.ca)

For more information please visit: <https://www.rac.ca/field-day-2020-june-27-28/>

From the June RAC Report

into space on May 27 before unfavorable weather scrubbed the flight.

“Crew Dragon has separated from Falcon 9’s second stage and is on its way to the International Space Station,” a SpaceX tweet said. “Autonomous docking at the [ISS] will occur at ~10:30 AM EDT tomorrow, May 31.”

The so-called “Demo-2 is the final major test for SpaceX’s human spaceflight system to be certified by NASA for operational crew missions to and from the ISS Additional background and launch video from the Kennedy Space Center is available.

From the ARRL web site



## Press Release

LOS ANGELES - QSO Today host Eric Guth, 4Z1UG, announced that the first QSO Today Virtual Ham Expo will commence on August 8th and 9th, 2020, over a period of 48 hours. This virtual Expo is built on a live virtual reality platform commonly used by Fortune 500 companies and major universities. Attendance is free, and anyone can attend from their home or office.

Eric and his team, including George Zafiropoulos, KJ6VU, have assembled 50+ of the best ham radio mentors in multiple tracks to address this conference from the virtual Expo's auditorium. Icom has taken the lead as the Expo's Platinum Sponsor, along with Gold Sponsors RT Systems, FlexRadio, RFinder, DX Engineering, Elecraft, and GigaParts.

At the Expo, amateur radio operators will be able to:

Learn from a packed line-up of renowned ham radio speakers such as Ward Silver, N0AX, on Grounding and Bonding; Glen Johnson, W0GJ, on DXpeditions, and John Portune, W6NBC, on building slot antennas for HOA.

See demos of the latest ham radio equipment from the world's top equipment companies. Attendees can easily ask questions and engage with Exhibitors through video, audio, or chat.

Share ideas and network with their fellow ham radio operators at any time throughout the Expo.

This platform simulates a full convention experience with an exhibit hall and exhibit booths staffed by live attendants, speaker auditorium, lobby, and lounges.

"I was planning on my own trip to Dayton this year when I heard of its cancellation, followed by Friedrichsaffen, and now Huntsville. With the encouragement of my listeners and guests of the QSO Today Podcast, I spent months looking at alternatives before deciding on a platform to create this virtual event to share with the amateur radio community. Our virtual Expo also means that the hundreds of thousands of ham radio operators that have never to a 'physical' event can now also participate. Admission is free, and door prizes will be posted to the event's website as they are added. Since the Expo is completely funded by exhibitor booth sales, I'm encouraged by the great response from Icom and other sponsors" said Eric, 4Z1UG.

The QSO Today Virtual Ham Expo will commence on Saturday August 8th, run for 48 hours as a live event, then will be available as an on-demand event for another 30 days. "How many conventions have I gone to, especially large ones, where I had no time to visit all of the exhibitor booths? Now I can attend every lecture, and engage as many exhibitors as I want since everything is available for 30 days after the Expo" said Eric, 4Z1UG.



For more information go to:  
[www.qsotodayhamexpo.com](http://www.qsotodayhamexpo.com)

Press contact:  
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## KN6EQU Balloon Wins Cross-Country Educational Challenge Race 06/05/2020

Amateur Radio on the International Space Station (ARISS) partner ISS Above inventor Liam Kennedy, KN6EQU, of Pasadena, California, has been declared the winner of a mid-altitude cross-continent educational challenge balloon race. His balloon was one of four launched on June 1 from the west coast with the goal of reaching the Eastern Time Zone first. Coming in second was the balloon of Ted Tagami, KK6UUUQ, from ARISS partner Magnitude.io.

It all began when educator Joanne Michael, KM6BWB — a science coach at the Wiseburn Unified School District in Los Angeles — challenged another ARISS partner group to a mid-altitude, cross-continent balloon race. Michael has led her students in several balloon launch attempts from the Los Angeles area each year.

Given the disruption caused to schools by the COVID-19 pandemic, Michael wanted to shake things up a bit and give students worldwide a unique distance-learning treat that could safely be accomplished during the pandemic. She challenged Tagami, and he accepted. On May 31, a fourth team joined in the competition: Steve Potter, K7HAK, and Trevor MacDuff of Washington.

Tagami launched his balloon from Oakland, California. ARISS partner ISS Above inventor Liam Kennedy, KN6EQU, got wind of the idea and also came on board, launching from Pasadena, California. Michael set her balloon aloft in Los Angeles, while Potter and MacDuff's balloon lifted off from southern Washington.

ARISS, Magnitude.io, and ISS Above are ISS National Lab Space Station Explorer (SSE) partners that work to inspire, engage, and educate students in science technology engineering,

*(Continued on page 8)*

**Halifax Amateur Radio Club  
Minutes of the General Meeting 19  
February 2020**

1. Welcome to the HARC monthly meeting for February 19, 2020: The meeting was called to order by President VA1CC, Brian at approximately 1910 hours.

2. Acceptance of the Agenda: A motion was made to accept the agenda by VE1MR Bill, seconded by VA1RST Roger, the motion passed.

3. Roll Call: 36 members and visitors were in attendance.

4. Report of any Silent Keys: VE1AI reported that Eric Dephart a past member of the Greenwood Club, now a VE3 had passed, call not available.

5. Approval of Minutes of January 2020 as printed in the Reflector: A motion was made by VE1QD Scott, seconded by Fred VE1FA, motion passed.

6. Correspondence:

Andy Filmore MP visited Field Day last June and sent a Certificate of Achievement for finishing 1st in Canada and 8th overall in our class for Field Day 2020.

Banks statements were received from Scotia Bank.

The current month QST magazine was received and is in the rack in the office.

7. President's Report: Approval and the order of a new 30 foot foldover tower for the satellite antennas that were at St Andrews is in the works. Delivery is expected by the end of March with installation to follow. There will also be an HF vertical antenna installed on the top of the tower.

The Cowie Hill repeater site will undergo some antenna replacement and additions this year. A larger building to house the equipment and a location closer to the tower is being investigated. Keep an eye on the Reflector and the HARC website for

other items.

The following have passed the Advanced Class exam this past education training period, Tim Delaney, Don Trotter, Greg Estabrooks, Gordon Young, Gary Bugden, Ray Armstrong, Ralph Rosere, David Lewis, Cam Farnell, and Fraser McDougall. A round of applause followed to celebrate and acknowledge their achievement!

There will be a Ham Breakfast this coming Saturday the 22nd at the Young Street Steak and Stein at 10 am. See you there. So far 14 have indicated they will attend.

The Hobby Show will be at Shearwater on the 18th and 19th of April, contact Craig VE1JMA.

There will be a Ham Radio demonstration here at Station 50 with the Girl Guides with Dick VE1AI, Fraser VE1WO and Scott VE1QD on February 22nd at 2 pm.

8. Treasurer's Report: The income from the period of January 1 to January 31 was in the amount of \$1373.84. Expenses for the same period came to \$135.52 for a net of \$1238.32. The opening balance was \$9221.99 and the closing balance for the period was \$10432. A motion was made by VE1MR Bill to accept the report. VE1YL Helen seconded the motion, motion carried.

9. Other Executive Reports:

10. Committee, Event and Special Projects Reports:

1. Membership Report - From Jim, VE1PPA, reported by Brian VA1CC for 2020 there are 43 Full, 3 Associate, 4 Life and 18 associate (complimentary) members for a total of 68 members. Compared to last year at this time membership is down 17 members, please send in dues.

2. SAR/EMO - Dave George, VE1AJP was absent, there was a call received regarding a lost lady, she was found. George VE1CAW.

3. Station Manager Report - Don, VE1DTR absent due to illness, VE1GFX Greg. Technical committee member reported that the Remote Rig is up and running. A reminder that an Advanced class license will be required to operate the remote station. Sign-in and sign up for use protocols are being developed. Stay tuned for a forthcoming information session.

The internet service has been upgraded to Eastlink high speed to accommodate the new remote.

4. **Other reports**

MMA (Maritime Museum of the Atlantic) VE1AI Dick reported that we are gearing up for Spring Break in March, watch your email for a sign up sheet QSL Bureau, make sure that your address is updated with the Club and Radio Industry of Canada. Remember to contribute \$ to be able to receive your cards. HATS There will be a newsletter in the Reflector. Gary Murphy VA1GGM was not present.

5. Neil VE1YZ gave a report on the area repeaters VE1PKT (1983) and VE1CDN (1985), linking operations and the tie to the NSARA repeaters. The influx of the Yaesu promoted Fusion products has had an impact on repeater activity.

6. Fred VE1FA shared information regarding an Islands on the Air event, IOTA International competition sponsored by the Radio Society of Great Britain, RSGB, coming up this July 22-23. In the past, the NS competition team has usually placed first in North America operating from Bon Portage. Though, due to rising fees, two other locations are being reviewed. The sites being considered are Long Island and Little Tancook Island at approximately ½ the cost. The participating operators share in the cost. The group arrives at the site usually 2 days in advance to get the equipment to the site, boat,

(Continued on page 7)

(Continued from page 6)

ferry, or other, and set up antennas and two operating positions in typically a rented cottage. Estimated costs are \$250/person for the Long Island site and \$350/person for Little Tancook. Sounds like a great experience! Contact Fred if you are interested.

7. Sheldon VE1GPY gave a summary report for Parks on the Air that was in the February Reflector. Over 24,000 QSO's were logged, and 2000 awards available via download for the Activators and Chasers.

**11. Old Business:**

1. Digital Repeater: Jason reported that the digital repeater is operational and awaiting better weather for antenna work.

2. Flea Market Chair/Field Day Chair: The Lower Sackville site has been secured. Table cost is \$10 and includes the seller's entry fee. John VE1JMB with assistants will be leading the effort, please contact him to volunteer for ticket sales, security, table set-up, and 50/50 draw. Thanks John!

12. Round Table - Member News: the brief sharing of important personal news: Field Day sites discussion and radio check out to be done.

13. 50:50 Draw: \$32.00 is the amount tonight, Greg VE1GFX was the winner!

14. Motion for Adjournment: Bill VE1MR, motioned, meeting adjourned 2030 hours.

Respectfully submitted  
by Roger Stein, VA1RST,  
HARC Secretary



**From the Mail Bag**



*I love walks, especially when they're taken by people who annoy me.*

**Maritime Fusion Net / Cross Canada Net**  
by Jim Langille • June 2, 2020

Greetings all,

A reminder about the Maritime Fusion Net each Wednesday at 7pm AT in the CQ Maritimes room 60207. All amateurs with Fusion radios are invited to attend. The net continues to grow each week with now having an average of 35 check-ins from all over the Maritimes and from outside the area.

The net started in January of this year and this week will be net #22. Yvon Hachey VE1VON from Dieppe New Brunswick will be NCO this week.

Following this net at 10pm AT is the C4FM Cross Canada Net in the CQ Canada room 40678.

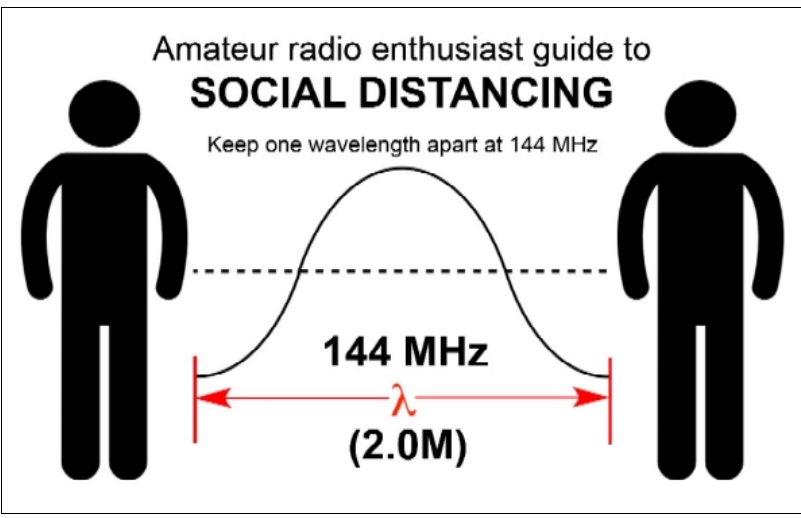
There is an email list for Fusion operators to receive reminders about the net and other news about Fusion radio. If you are interested in receiving these emails send me a notice and you will be added to the list.

jimve1jbl@gmail.com

More information about the Maritime Fusion Net can be found on the Maritime Fusion webpage at

<https://www.maarc.ca/maritimefusionnet.html>

Hope everyone is staying safe.



The HARC digital repeater is under test on Fusion in Fall River area on 444.700 +

**The Atlantic Amateur**  
Ham Radio for the **Atlantic Provinces**  
[www.atlanticamateur.ca](http://www.atlanticamateur.ca)

Do you have pictures, an interesting or funny radio-related story, an article or a question or news you would like to share via the HARC Reflector? Please send it/them to Lynn at [bowser.elliott@ns.sympatico.ca](mailto:bowser.elliott@ns.sympatico.ca)  
Please show "For Reflector" on the "Subject" line so I don't miss it. Thanks!.-ed

Here is something the NSARA could manage and give hams an adventure For portable operations. Think about it.  
Work All Waterfalls <https://www.mrmaps.ca/home/2019/5/30/waterfalls-of-nova-scotia>  
Doug Grace 902-456-0506

To view the activities of the Maritime Lighthouse Amateur Radio Group go to;  
<https://www.facebook.com/groups/MLARG/>

## ARRL Contest Program Issues Field Day 2020 FAQ

06/09/2020

The ARRL Contest Program has released some Frequently Asked Questions related to the Field Day temporary rule waivers. On May 28, the ARRL Programs and Services Committee (PSC) adopted these provisions only for the June 27 – 28, 2020, event: (1) Class D stations may work all other Field Day stations, including other Class D stations, for points, and (2) an aggregate club score will be published, which will be the sum of all individual entries that indicate a specific club. Contact the ARRL Contest Program with any questions related to Field Day 2020.

**Q:** Several of our club members are going to operate independently and wish to attribute their scores to the aggregate club score. What call sign should they use?

**A:** Participants should use their own call signs. Except for Class C (mobile) entries, all transmitters, receivers, and antennas must be located within a 1,000-foot-diameter circle may operate using a single call sign. This prohibits the use of a single call sign from more than one location. Under the 2020 waiver, those operating from home, including backyard operations, must use their own station call signs. Multiple home stations operating with a club call sign or modified club call sign, such as W1AW-1, W1AW-2, W1AW-3, etc, are not allowed.

**Q:** How does my club submit an aggregate club score? Does the club need to add up each participating

member's scores and submit a club entry with the aggregate score under the club call sign?

**A:** Each participant will submit his or her own independent entry under his or her call sign. ARRL will calculate the aggregate score based upon the club name entered on the official Field Day entry form via the web applet (preferred method) or on the paper Field Day entry form. In order for results to be tabulated correctly, all club participants must enter the club's official name exactly the same, avoiding abbreviations or acronyms. This is important!

**Q:** Our group is still planning to operate at the usual Field Day site, but some members do not feel comfortable gathering in a large group this year. Can we still submit an entry using the club call sign, as well as have members operating from home using their own call signs?

**A:** Yes. If your club is still hosting a group Field Day effort, it will submit an entry as usual, using the club call sign. Club members operating at home will submit separate entries with their own call signs and will enter the club name on the entry form for club aggregate scoring.

**Q:** Can a club member operate from home using the club call sign?

**A:** Yes, but the call sign may only be used in one location. The member must receive permission from the trustee of the club call sign.

**Q:** Our club normally enters Field Day in Class A. If we operate from our home stations, in which class should individual members enter in order to be included in the aggregate

club score?

**A:** Each member will operate independently and will submit the entry using whatever class that applies to their operation. Typically, home stations running on commercial ac power are Class D, while home stations running on battery, solar, generator, or the like (i.e., not from ac mains) are Class E. When the results are published, each club member will be listed in the results under the class in which they operated. For 2020 only, aggregate club scores will be listed by the club name in a separate listing.

**Q:** Our club will have 10 members operating from home as Class D stations. Should they worry about working the same station on the same band and mode (duplicates)?

**A:** Because members are operating as separate entries using their own call signs, the contacts are not considered duplicates.

**Q:** Does the club need to be an ARRL-affiliated club to participate in Field Day?

**A:** No. All clubs and groups are welcome to participate in ARRL Field Day.

**Q:** How will bonus points be calculated for the aggregate club scores? Can individual club members still earn bonus points?

**A:** All individual scores, including bonus points, will be added together to determine the aggregate club score. Refer to the complete rules to determine eligibility for bonus points. — Thanks to Paul Bourque, N1SFE, ARRL Contest Program Manager

(Continued from page 5)

arts, and mathematics (STEAM) topics and to pursue careers in those fields.

Students could still track each balloon's location, altitude, and temperature, which are fed automatically via the Automatic Packet Reporting System (APRS). The call signs are

K M 6 B W B - 9, K K 6 U U Q - 8, KN6EQU-2, and K7HAK-11.

“Educators and parents around the globe can excite at-home youth with this initiative,” ARISS said in announcing the challenge.

For more information on the balloon launch, lesson plans, and the livestream video link visit the ARISS

Mid-Altitude Balloon Race page.

### Editors note

**The KN6EQU-2 balloon came down near Liverpool NS and has been heard by John, VE1JOT and has a Lat and Long as of June 10, 2020. So this balloon may be recovered in the near future**



**REMINDER**

Have you renewed your membership for 2020? Have you changed your mailing address? Your E-mail address? Got a new call sign? We need to know your correct address to get the newsletter to you. Please inform Membership chair Jim Calvesbert, VE1PPA jim.calvesbert@gmail.com of any address changes

**AO-73 Now in Full-Time Transponder Mode**

06/10/2020

AMSAT reports that, after some 8 months in continuous sunlight, AO-73 (FUNcube-1) began to encounter some eclipses during each orbit. Telemetry showed that AO-73 continued to function, although maintaining a sufficient battery charge was a concern. After 3 weeks of increasing eclipse periods, however, AMSAT reported that the lithium-ion battery appears to be okay, and the bus voltage has not yet dropped below 8.1 V. The operating mode has been shifted from high-power telemetry educational mode to continuous amateur mode with the transponder on. Telemetry continues to be available, but at low power. — Thanks to AMSAT News Service



**HALIFAX AMATEUR RADIO CLUB MEMBERSHIP - For 2020**

- Same address as last year     New address
- I would like newsletter as PDF E-Mail (Please note by taking the newsletter online you save the Club significant mailing and printing costs )
- I would prefer to have the newsletter mailed to my home **at an additional cost of \$10.00 to the regular membership fee structure below..**



E Mail Address \_\_\_\_\_ ( Please provide for our files )

Call Sign \_\_\_\_\_ Are you currently a RAC member? \_\_\_\_\_

First Name \_\_\_\_\_ Initial \_\_\_\_\_ Surname \_\_\_\_\_

Street Address (Mailing) \_\_\_\_\_

City/Town \_\_\_\_\_ Province \_\_\_\_\_ Postal Code \_\_\_\_\_ Telephone Number \_\_\_\_\_

Fees     Full Member, must be a licensed Amateur (\$30.00)\*     Associate member (Non Voting) (\$20.00)  
 Family membership (one newsletter) (\$30.00)\* + \$20.00\* each additional person.\* Amount submitted \$\_\_\_\_\_.

The membership year is from January 1 to December 31.

**All members receive the newsletter, which is also available on the HARC website.**

Please fill in method of payment     cheque     cash     Interac/e-transfer

✉ Mail to:    Membership Chair    CARD \_\_\_\_\_  
                   Halifax Amateur Radio Club  
                   2050 Hammonds Plains Road    ENTERED \_\_\_\_\_  
                   Hammonds PlainsNS B4B 1P3

Or if using Interac e-transfer to pay, please follow the instructions on the HARC website's Membership page for e-mailing this form and your Interac funds.

**Payment Options ...** In addition to mailing a cheque to the Club mailing address along with the application form, or paying at the January Club meeting, we have set up an electronic money transfer process. Go to the H.A.R.C. Website's membership page at <http://www.halifax-arc.org/pages/membership.html> for more details.