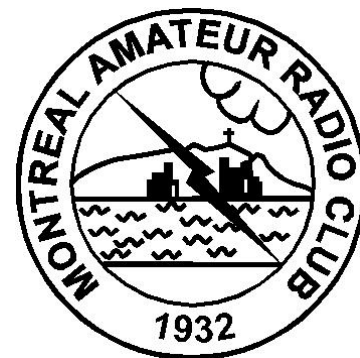


marcOgram

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NEXT MEETING

Tuesday 24 November 2020 at 20:00 via ZOOM.

As you are all aware by now, covid-19, and its 2nd wave has made it impossible to hold in-person meetings right now. Instead, we will hold General Meetings via the Zoom platform. Below are the details you need to join the meeting. A rag-chew session starts at 19:30 with the formal meeting starting at 20:00.

Join Zoom Meeting: <https://zoom.us/j/92218952458?pwd=N1gyREJwYTVkdUdYN0F2RUJXZmdNZz09>

Meeting ID: 922 1895 2458 Passcode: 076888 Or by phone 438-809-7799 using the above meeting ID and passcode.
Important: Please use a headset or headphones and make sure to test your mic/camera ahead of the meeting.

We hope to see you there.

Marc-Andre Gingras, VE2EVN
President - Montreal Amateur Radio Club

FROM THE EDITOR'S DESK

The new MARC Board of Directors closely resembles last years Board of Directors. As COVID-19 still rules the land, our General Meetings continue to be held via Zoom, and the upcoming radio courses will also be conducted via Zoom; more details on page 2.

We will be holding a Seasonal Celebration, but (COVID-19 again) it will not be an in-person dinner. We will be celebrating socially distant, cocktail in hand, over Zoom.

This plague has forced a lot of changes in the way Canadians do things: more shopping happens on line, more business happens via Zoom, and even family get-togethers are digital. Some of these changes actually have advantages, and may persist even after an effective vaccine is developed.

73 de Nora, VA2NH

- . . . -

Christmas is coming ...

**...the geese are getting fat.
Please put a penny in the old man's hat.
(ye olde English rhyme)**

The normal 2020 Christmas Dinner has been cancelled. At the request of members, a **Christmas Cocktail via Zoom** will be held instead.

Date: Wednesday Dec. 2nd, to be confirmed at the next General Meeting. Time: 17h00 until 21h00 EST
Zoom: <https://zoom.us/j/9229048652?pwd=b0l3cDhRZTdsakVEdVdMK0MzWTNXdz09>
Meeting ID: 922 9048 6527; Passcode: 646439

Make sure to have your cocktail in hand either alcoholic or non-alcoholic!
Be Merry!

Marc-André Gingras, VE2EVN
President - Montreal Amateur Radio Club.



The MARCogram is published nine times per year on the second to last Wednesday of September through June, excepting December by the Montreal Amateur Radio Club. Advertising and copy deadline is one week prior to publication.

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Family Members (per family) \$35.00
Postal delivery of MARCogram \$ 5.00

The membership year runs from September 1 to August 31. Memberships received on or after June 1 commence immediately and extend through the subsequent membership year - covering a period of up to fifteen months.

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Directors

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Eamon Egan, VE2EGN ve2egn@marc.ca
Mario Piacitelli, VA2TMP va2tmp@marc.ca

Club Call Sign: VE2ARC

Club Website: <http://www.marc.ca>

Repeaters

VE2BG 147.06 MHz (+)

Owned and operated by the Montreal Amateur Radio Club. **Currently OFF AIR**, looking for a new location..

VE2RED 147.27 MHz (+) 103.5

On the air from Ridgewood Ave. in Montreal; CTCSS tone of 103.5 Hz for access. Thanks to Claude Everton, the VE2RMP group and Metrocom for making this possible.

The repeaters are open to all amateurs.

Meetings of the Board of Directors

Meetings of the Board of Directors are held on the first Tuesday of the month (Aug to June) at 19:30 on-line using the Zoom platform. The club no longer holds in-person board meetings. If you have questions, concerns or suggestions for the Board to discuss, please send an email to ve2arc@marc.ca for inclusion to the meeting agenda.

Club Activities

Monthly Meetings are by ZOOM

(last Tuesday of the month)

Nov 24 - Leo, VE2SI, SWR in Receive Systems, or Any Old Piece of Wire will Work for Receive.

Dec 2 - MARC Christmas Cocktail (via Zoom).

Jan 26 - Eamon, VE2EGN, KiCAD, circuit design software.

Feb 23 - TBA.

Mar 30 - Claude, VE2YI, Digital Radio Technologies.

Apr 27 - TBA

May 25 - Show & Tell.

Every Wednesday, @ 20:00 (00:00Z), go to the net on VE2RED.

See page 3.

Radio Classes

A basic level course will be held starting in January 2021. It will be held via Zoom, and run from January to March. If you know of anyone interested in taking the course please direct them to <https://marc.ca/course/> for more information.

MARC Hamfest

The 2020 MARC flea market has been cancelled.

It will be back next year but we still need a good location.

Any ideas? Please contact any of the board members.

Ideas are welcome!

Go to <http://marc.ca/fest/> for more information as it happens.

Incoming QSL card service

As has been mentioned in previous MARCograms, we are resuming the club's service of having incoming QSL cards sent to the club for members to pick up at meetings. This is a service which we are offering to our members which both saves the individual members money as well as makes more efficient use of our collective resources.

If you would like to avail yourself of this service please send an e-mail to qsl@marc.ca and we will add you to the list of cards that the incoming bureau sends to the club and bring them to the monthly meetings.

SolderSpot

Group build Power Supply Project - By Leo VE2SI

If you're interested and even if you've spoken with me before, please send an email to VE2ARC@marc.ca and indicate your level of interest.

Participation is open to everyone and MARC membership is not a requirement.



UPCOMING FLEAS/EVENTS

2021

What: Iroquois ARC Fleamarket
Who: Iroquois Amateur Radio Club
When: Saturday, 3 Apr 2021
Where: Iroquois ON

What: NEAR-Fest XXIX
Who: New England Amateur Festival, Inc
When: Fri & Sat, 30 Apr & 1 May, 2021
Where: Deerfield Fairgrounds
 Deerfield, NH

What: London Vintage Radio Club Flea Market
Who: London Vintage Radio Club
When: Tuesday, 8 Jun, 2021
Where: Guelph, ON

What: Carp 24th Annual Hamfest
Who: Ottawa Amateur Radio Club, Inc.
When: Saturday, 11 Sep, 2021
Where: Carp Agricultural Fair Grounds,
 Carp, ON

What: NEAR-Fest XXX
Who: New England Amateur Festival, Inc.
When: Fri & Sat, 12 & 13 Oct, 2021
Where: Deerfield Fairgrounds
 Deerfield, NH

Note from the editor.
 Due to COVID -19, the list of hamfests and events is severely limited. Please check with the organizing authority before planning to attend as some may be cancelled.

VE2RED TUESDAY NET REPORT

Any discrepancies, please inform Leo, VE2SI

Please join us every **Wednesday** evening at 20:00 local on VE2RED on 2m output frequency of 147.270 MHz (+600 kHz input offset) CTCSS tone of 103.5 Hz. Everyone is welcome.

We have a few Net operators hosting it, but we're always interested in adding to this team if you're interested. Send me an email if you would like to try out Net Operations for an evening.

Marc-Andre, VE2EVN
 President - Montreal Amateur Radio Club

2020-10-14 Net commenced 20:02 local, 00:02Z

Net control Leo, VE2ARC (VE2SI)
 VE2EGN, Eamon, NDG
 VA2ASS, Andy, Cote St. Luc
 VE2WES, Sylvain
 VA2LEQ, Lee, Laval
 VE2ZPZ, Pawel
 VA2NH, Nora, St. Lazare
 VE2YI, Claude, Laval
 VE2EVN, Marc-André
 VE2MVY, David, Oka
 21:10 Net closed.
 10 check-ins.

Discussion: super-regenerative receivers, SDRs good or bad, tube operation 1940-50, Hammerlund & Hallicrafters.

2020-10-21 Net commenced 20:05 local, 00:05Z

Net control Leo, VE2ARC (VE2SI)
 VE2WRH, Wayne, Cote St. Luc
 VA2ASS, Andy, Cote St. Luc
 VE2ZPZ, Pawel
 VA2LEQ, Lee, Laval
 VA2EJC, Chris
 VA2NH, Nora, St. Lazare
 VE2EVN, Marc-André
 VE2FSE, Frank
 21:21 Net closed.
 9 check-ins.

Discussion: ISS location, satellite operation.

2020-10-28 Net commenced 20:00 local, 00:00Z

Net control Marc-André, VE2ARC (VE2EVN)
 VA2ASS, Andy, Cote St. Luc
 VE2SI, Leo, St. Lazare
 VA2NH, Nora, St. Lazare
 VA2TEI, Birgit
 VE2MVY, David, Oka
 VE2LJV, Sam

(Continued on page 5)

ISS SLOW SCAN TV RECEPTION

By Samuel, VE2LJV
samuel.galet@outlook.com

Have you ever wanted to listen to or see transmissions from the International Space Station?

I have watched it fly overhead at night in the Caribbean sky and I have heard stories from other hams who have made QSO's with the ISS but I have not had the opportunity myself.

I received an email from the ARRL on September 29, 2020 that there were planned SSTV broadcasts coming as part of a Russian experiment.

From: "ARRL Web site" <memberlist@www.arrl.org>
Date: September 29, 2020 at 4:14:06 PM EDT
To: samuel.galet@outlook.com
Subject: ARLS006 Slow-Scan Television Transmissions from ISS Planned
SB SPACE @ ARL \$ARLS006
ARLS006 Slow-Scan Television Transmissions from ISS Planned

ZCZC AS06
QST de W1AW
Space Bulletin 006 ARLS006
From ARRL Headquarters
Newington, CT September 29, 2020
To all radio amateurs

SB SPACE ARL ARLS006
ARLS006 Slow-Scan Television Transmissions from ISS Planned

A Moscow Aviation Institute MAI-75 slow-scan television (SSTV) experiment event is planned for Wednesday, September 30, from 1305 UTC to 1845 UTC, and Thursday, October 1, from 1230 UTC to 1745 UTC. SSTV signals will be transmitted on 145.800 MHz, plus/minus Doppler shift.

The expected mode will be PD 120, and the call sign will be RS0ISS. Received images of reasonable quality may be posted on the ARISS SSTV Gallery at:
https://www.spaceflightsoftware.com/ARISS_SSTV/.
NNNN
/EX

This was the starting point. Checking the ISS EU fan club as well as ARISS [Amateur Radio on the International Space Station] website, I got more information as well as an updated schedule. ISS can be tracked with various software for free and you can determine when it will be overhead at your location.

<http://ariss-sstv.blogspot.com> is a great source for information.

As well amsat.org have a great free tracking program for the next 50 passes of all the satellites.

This is what you get as output.

<https://www.amsat.org/track/>

At 77 degrees the ISS is almost overhead 90 is right overhead. Times are UTC.

Date (UTC)	AOS (UTC)	Duration	AOS Azimuth	Maximum Elevation	Max El Azimuth	LOS Azimuth	LOS (UTC)
16 Nov 20	00:00:34	00:08:54	167	12	127	76	00:09:28
16 Nov 20	01:35:50	00:10:53	235	74	148	62	01:46:43
16 Nov 20	03:12:58	00:10:37	271	31	3	64	03:23:35
16 Nov 20	04:50:23	00:10:32	293	28	24	83	05:00:55
16 Nov 20	06:27:20	00:10:54	299	77	23	116	06:38:14
16 Nov 20	08:04:21	00:09:44	289	15	229	161	08:14:05
16 Nov 20	23:13:44	00:07:24	171	6	130	84	23:21:08
17 Nov 20	00:48:07	00:10:44	224	45	130	64	00:58:51
17 Nov 20	02:24:57	00:10:44	263	39	356	62	02:35:41
17 Nov 20	04:02:25	00:10:28	289	26	344	77	04:12:53

I chose the MMSSTV software and quickly installed the free version on my laptop PC Win 7 clone. The receiver was a Kenwood TM 733 and the antenna was a Ringo Ranger at 32 feet on my roof.

On Oct 5, 2020 an update was received from ARRL that the test would run to October 8, 2020. Lots of time to get it right.

I read somewhere that the download was at 40 watts so the signals should be easy to decode. In fact it became very easy peasy once I knew what I was doing. Since there was no line in on my computer I chose to use a tape recorder to record the audio. Bad mistake as the tape introduces a lot of errors. As a backup I used a digital recorder and it was perfect; just put the digital recorder mike over the radio speaker. The software will record the sound as it translates the image, but that is for a later event. The transmission lasts 10 minutes; enough for two images per pass as each image takes two minutes and there is a two minute cooling off period for the transmitter to cool down.

(Continued on page 5)

(Continued from page 4)

I recorded 11 images during the days of the transmission and submitted 8 for a QSL card to RAC [Radio Amateurs of Canada] who were handling Canadian submissions for ARISS.

To see the images I submitted go to:
http://www.spaceflightsoftware.com/ARISS_SSTV/bycallsign.php and enter my call sign VE2LJV.

If I had read all the information and links to all the emails then I would have seen that I could have gotten a special certificate from, I believe, the Russian Institute. However the entry date was Oct 9, 2020 and I only saw it later.

Next time I will be better prepared with audio cable directly to my computer. The images are in vivid colour.

73 de VE2LJV

Below is one of the received images.



- . . . -

(Continued from page 3)

20:58 Net closed.
7 check-ins.
Discussion: not recorded, few check-ins.

2020-11-04 Net commenced 20:00 local (EST), 01:00Z

Net control Pawel, VE2ARC (VE2ZPZ)
VE2SI, Leo, St. Lazare
VA2ASS, Andy, Cote St. Luc
VE2WRH, Wayne, Cote St. Luc
VA2NH, Nora, St. Lazare
VA2LEQ, Lee, Laval
VE2EVN, Marc-André
VE2YI, Claude
VE2KFC, Norm
VA2MKX?, Alex?

21:07 Net closed.

9.5 check-ins,

Discussion: there was a lot of interference on both RED and REM repeaters, possibly faulty antenna connections? SDRs continued.

2020-11-11 Net commenced 20:00 local, 01:00Z

Net control Leo, VE2ARC (VE2SI)
VA2LEQ, Lee
VE2WRH, Wayne, Cote St. Luc
VE2JL, Jan, Westmount
VE2AZK, Lanny
VE2KFC, Norm, St. Constant
VA2LY, Lubo
VA2NH, Nora
VE2YI, Claude, Laval
VE2QXP, Stan, Pointe-Claire

21:14 Net closed.

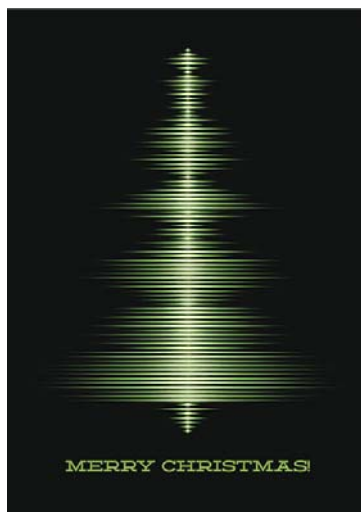
10 check-ins.

Discussion: Has amateur radio increased your understanding of today's electronic world? SW listening, DMR, Pye Ranger, pagers, cell phones.

- . . . -



Alamy



20th Anniversary ISS Amateur Radio Station.

[courtesy ARISS web page]

ISS crew operations began on November 2, 2000 with the arrival of the Expedition One crew. (See photo below.) The Expedition One crew included Commander William (Bill) Shepherd, KD5GSL, (center), Soyuz Commander Yuri Gidzenko (right), and Flight Engineer Sergei Krikalev, U5MIR (left).

Just a few days after the crew arrived, they set up our first ISS ham radio system. It was installed in the Zarya (FGB) module and consisted of an Ericsson Handheld radio, Packet/Power supply, Headset and interconnecting cables developed by the USA and Russian teams. For transmissions, ARISS Russia team member Sergey Samburov brilliantly worked with his Russian colleagues to acquire use of a VHF antenna in Zarya previously employed for docking and no longer needed.

The installation of the ISS Ham Radio is briefly described in the Nov 10, 2000 Expedition One Status Report:

Friday, Nov. 10, 2000 - 2 p.m. CST
Expedition One Crew
11.10.00

STATUS REPORT : ISS00-55
International Space Station Status Report #00-55

The Expedition One crew spent a relatively quiet day today aboard the International Space Station (ISS) as they prepare for the arrival of an unmanned resupply craft late next week.

.....

The crew will be given three days off Saturday, Sunday and Monday to relax following a busy period of activity since launch on October 31. The only significant activity on tap for Saturday calls for the crew to begin the setup of ham radio equipment in Zarya. ISS crews will use that gear to talk to schools and other ham radio operators throughout the world as they orbit the Earth.



After station setup on November 11, first operations of the ARISS ham radio system started on November 13, 2000, just 11 days after the Expedition One crew arrived. Thus, November 13, 2020 represents the 20th Anniversary of continuous operations of the ARISS ham radio system on ISS.

