

DECEMBER 1996

THE GROUNDWAVE



NEXT MEETING WILL BE HELD
WEDNESDAY, DECEMBER 4, 1996

Club Call VE3RC

Repeater VE2CRA



Official Bulletin of the Ottawa Amateur Radio Club, Inc.

The Ottawa Amateur Radio Club, Inc., Box 8873, Ottawa, Ont., K1G 3J2

| | | | |
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THE OTTAWA AMATEUR RADIO CLUB, INC. is an association of Radio Amateurs devoted to the promotion of interest in Amateur Radio communications in the National Capital Area; and to the advancement and achievement of club members.

REGULAR MEETINGS of the OARC, Inc., are held on the first Wednesday of each month (except July and August) in the Keefer Room (2nd floor of the Old Teacher's College) of the RMOC HQ complex on Lisgar St., Ottawa, at 1915 hours. Further details about each meeting is elsewhere in this publication.

THE OARC EXECUTIVE normally meets on the second Wednesday of each month at 1930 hours. Contact the President to confirm the date of the next meeting.

PACKET RADIO MEETINGS will be held at 7:30 p.m. on the last Thursday of every 2nd month, starting September 1993, at the Museum of Science and Technology. This is an OARC technical meeting open to all who have an interest in packet radio.

DEADLINE FOR COPY is the second Wednesday of each month. Make yourself better known to fellow members and other amateurs, too, by giving us an article, technical or otherwise, relative to our hobby.

MATERIAL PUBLISHED herein does not necessarily represent the official OARC viewpoint. Items may be reprinted by Amateur Radio or other publications provided that proper credit is given to the author and to the OARC, Inc.

JUNIOR MEMBERSHIPS - To encourage young people to join the club and to participate in amateur radio, the club is opening a junior class of membership. Dues will be at a 50% discount but the junior member must pick up his/her copy of the Groundwave (preferably at the meeting).

RADIO AMATEUR CALL BOOKS are available at many local libraries. Ask at the information desk.

SAFETY BELTS AND AN ENGRAVING PENCIL are available for loan to club members. The engraving pencil (to mark valuables for identification in case of loss or theft) and the safety belts with pole straps are available to any members. For the belts, a refundable deposit

consisting of a cheque equal to the replacement value of the belts is required. Contact the President for the engraving pencil; and Paul, VE3ICV, at 820-6643 (West End) for the belts.

THE CAPITAL CITY NET meets every Monday at 2000 hours on the Club Repeater VE2CRA (146.34/.94) to pass traffic and to make announcements of interest to amateurs in the National Capital Region.

PACKET RADIO VOICE NET meets following the Capital City Net on VE2CRA at 2040 hours. This is an informal net to answer questions about packet radio, pass along operating hints and provide information for future packet operators.

THE SWAP NET is a service provided and conducted by Dan Reardon, VE3GUU. This feature appears on the Capital City Net, noted in the foregoing paragraph. To list items and make inquiries, call Dan Reardon at 836-2633.

POT-HOLE NET is a SSB/HF net sponsored by the Ottawa Valley Mobile Radio Club, and conducted every Sunday at 1000 hours on 3.760 Mhz. All amateurs are welcome to check in. The Swap-Net is a regular feature.

POT-LID CW NET is an informal slow-speed CW net sponsored and conducted by Ed, VE3GX, and meeting every Sunday, except during July and August, at 1100 hours on 3.620 Mhz, to promote interest in CW and CW procedures.

REPEATERS

| | | | |
|---------|--------|-----------------|-------------------------|
| VE2CRA | Voice | 146.94/34 | |
| | | 443.300/448.300 | |
| VE3OCR | Packet | 145.01(sx) | Inter city links |
| VE3OCR | Packet | 145.07(sx) | Local Area net |
| | | | for QSO and Packet BBS. |
| 56 kbps | Packet | 220.55/433.55 | |
| VE3XDX | Packet | 145.11(SX) | |

For further information, please contact repeater chairman.

OARC WWW Home Page:

<http://www.worldlink.ca/oarc>.

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DECEMBER MEETING: December 4, 1996, at
 7:30 PM Keefer Room, RMOc 111 Lisgar St.
 Ottawa.

MINUTES OF THE OARC GENERAL MEETING
NOVEMBER 6, 1996

NOTE: Since the secretary position is
 vacant, these minutes are an adaptation
 of Richard's agenda.

If you would like to volunteer your
 services as secretary or coffee convener,
 please speak with any member of the
 executive.

The meeting was called to order at 19:45
 by Richard, VE3UNW.

Since the guest speaker was late, Richard
 invited everyone to start with coffee and
 cookies.

1. Welcome and call for visitors.
2. Haves, Wants and Needs.
3. Correction to last months minutes.
 Ken's call is VE3JKF and he was
 inquiring about a fund to replace
 (not maintain) the repeater.
 Doug, VE3XK's last name was
 incorrectly spelled. It is Leach.
4. A general discussion was held
 about the repeater and theft.

5. Field Day results were announced.
 The club did well. Also the West
 Carleton Club ranked 9th overall
 in the AMSAT field day.
6. Joe Norton Award.
7. Fleamarket. This was cancelled
 due to lack of amateur vendors.
 Only 12 tables were reserved.
8. Status of repeater.
9. Guest Speaker, Doug Reid spoke
 about the ATM switch and it's use
 at Algonquin College.
10. Coffee Guy --> we have none!
11. Capital City award. A request
 from a Japanese operator for this
 award was received. It was
 forwarded on to Brian Summers.
12. Tower Belts. Paul Coverdale,
 VE3ICV will pass the "east end"
 tower belt to Greg, VE3YTZ. Paul
 will retain the "west end" belt.
 Members are reminded that they may
 arrange to borrow these items with
 Paul or Greg.
13. Membership database. The labels
 for the last Groundwave was
 printed in September and therefore
 the membership expiry dates were
 not updated. The next mailing
 will be up to date.
14. Peter, VE3LBW is running another
 50/50 draw.
15. Rick, VE3IHI queried the members
 about their interest in buying a
 raffle ticket for a radio. The
 idea is to try a replace some of
 the lost Fleamarket income. The
 response was favourable and will
 be discussed at the next executive
 meeting.
16. The members were thanked for their
 attendance and the meeting was
 closed followed by a ragchew, more
 coffee and cookies.

mk's WORDS

nov5/96 - Well, I guess by now, you know I didn't get to yak with any of you at the fall flea market. Just how do you cancel one of those things anyway.. there is always somebody who doesn't get the message. I even skipped the Belleville fleamarket because I figured I could always stock up in Cumberland..(sigh)

On to brighter things. Now that the leaves are off the trees, I can see where the antenna "wants" to go. (That is, on weekends. When I'm at home during the week, its too dark to see much of anything). The trees are still gaining a bit of altitude each year, so its worth tossing the line up again. I still like the idea of a loop, but with the lot so narrow, maybe the loop should get squashed into something that looks more like a folded dipole, of no particular length. If I can come up with an open wire feed for it that I can live with, I guess it should work out ok. After all, like the smart guy said, "Should has to go somewhere".

A quick look through TCA shows that I'm getting behind on the updates to the web page on Canadian amateur radio related suppliers. It is worth a look, if you are surfing anyway. If you spot a Canadian supplier missing from the list, let us know.

I've been looking over the official preamble for the Capital City Net. It seems to have a lot of extra baggage along for the ride. Right now, it looks something like this:

Good evening, This is VA/VE...., net controller for this evenings Capital City FM Net. This net meets each Monday evening at this time to pass traffic and to make announcements of interest to amateur radio operators in the area.

The net uses the facilities of repeaters VE2CRA, which are owned and operated by the Ottawa Amateur Radio Club Inc.

The two meter repeater has an input of 146.340MHz and an output of 146.940 MHz. The seventy centimetre repeater has an input of 448.3 MHz and an output 443.3MHz. Tonight's net will be conducted on (two meters only) or (both). The net is operated by the Ottawa Amateur Radio Club Incorporated and includes the swap net, sponsored by Dan, VE3GUU. His phone number is 836 2633 and his fax number is 836 5635. Please phone him only before or after the net. All stations are welcome to check in, membership in the club is not a requirement.

This is a controlled net, and all traffic must be directed through the net controller. My name is, Victor (Echo)(Alpha)....., Net controller for tonight's net.

now... [1] don't you think people can figure out where and when the net is being run, if they can hear the preamble?

[2] Dan gives his phone numbers when he does his swap net preamble.

[3] I know we're great, but how many times must stuff the club name in there?

So here is my proposal for a new "low fat" preamble

Good evening, this is Victor (Alpha/Echo),net controller for the Ottawa Amateur Radio Clubs' Capital City FM Net.

The purpose of this net is to pass traffic and make announcements of interest to local amateurs. Tonight's net is conducted on (two meters only/two meters and seventy centimetres). All licensed amateurs are welcome to check in. This is a controlled net. All traffic must be directed through the net controller.

My name is, Victor (Echo/Alpha)....., net controller.

So what do you think, is it so short the net will be over before your finals warm up?

Last time, I mentioned that the two wheeled wonder buggy hasn't seen much action this year. With OC transpo and their drivers trading threats, I may be back to bike mobile status before you read this. I renewed my membership in the BMHA (Bike Mobile Hams of America), just in case.

That's it for now.. Be good to Santa
73...mk

ITEMS TAKEN FROM THE RAC NEWS SERVICES

1. Snowbird net notice

SnowBird Net Starting

WHEN: November 1st, 1996 at 1900Z

WHERE: 14.160 MHz

Will initially Start on Monday - Wednesday - Friday.

Sometime in December it will commence operation Monday thru Friday.

For additional information call or write Brad Pool - VE6NG at:

email: bradpool@freenet.edmonton.ab.ca

Brad Pool, VE6NG
4720 105A Street N.W.,
Edmonton, AB. Canada T6H 2P3
(403) 434-4821

2. Moose Jaw Amateur Radio Club 75th Anniversary November 17 to 30, 1996

The Moose Jaw Amateur Radio Club (VE5MA) is holding its 75th. Anniversary this year. It is believed to be one of the oldest continuously running clubs in Canada with the earliest known club meeting dating back to November 17th., 1921.

We will be on the air from our club station at the Western Development Museum with a special call sign/QSL of VA5MA. The special event station will be on daily from around 1500z to 2300z, most likely on 14.140 or thereabouts. We will try to have it on 80 mtrs around 3750, if someone is available in the evenings, and this will be from the 17 nov-30 nov.

Dan Murray ve5oy
President, Moose Jaw Amateur Radio Club

3. MARCONI AMATEUR WIRELESS SOCIETY

The Marconi Amateur Wireless Society is pleased to announce the 6th annual operation of VA1S from 0001Z December 1 to 2359Z December 31, 1996. The special callsign will be used by MAWS members to mark the 94th anniversary of the first successful radio transmission made by Guglielmo Marconi on December 15, 1902 from Glace Bay, Nova Scotia to Cornwall, England. Operation will be on all bands from 160-10M on CW and SSB.

QSLs will be handled by VE1AL, Alan Leith, 846 George Street, Sydney, NS B1P 1L9. Those wishing a direct response must include a self-addressed envelope and Canadian postage or equivalent for return airmail. Cards received with no, or insufficient return postage, will be returned via the bureau. Cards received via the bureau will be answered via the bureau.

As in previous years, the QSL will be of a different design, for those wishing to make a collection of VA1S cards.

Also, a newly designed certificate will be available for those who wish to have one. Please provide QSO details with your certificate request. A fee of US\$5.00 or 10 IRCs is requested to help offset the cost of printing and mailing the certificates.

For those who have not requested QSLs or certificates for 1991, 92, 93, 94 or 95,

these are still available from VE1AL. Since the computer logs for these years have been removed from the database and exist only on paper, it is imperative that full QSO details be provided with any request.

4. RAC forms Examination Working Group and invites inputs for examinations

Over the next few weeks, Radio Amateurs of Canada will assemble an Examination Working Group (EWG), comprising a small group of experienced amateur radio study guide authors, course instructors and examiners. The purpose of the EWG during 1997 will be to examine and recommend changes to the existing syllabus (topic outline) and question bank for the Basic Qualification examinations, and during 1998 for the Advanced Qualification examinations.

Suggestions are invited for additions, deletions or changes from RIC-24, to be included in a new Amateur Radio Basic Qualification examination syllabus. You need not be a member of RAC to submit your suggestions, though RAC will appreciate your support of this initiative. Your suggested changes and related comments should be submitted to:

Chair - Examination Working Group,
c/o Radio Amateurs of Canada, Inc
Suite 217 - 720 Belfast Rd.,
Ottawa, ON K1G 0Z5

or e-mail to: ewg@igs.net

5. Now! Download the callsign database

Now you can download the ARAS/SARA official callsign database from the Internet.

The Official Canadian Callsign database, updated every month from Industry Canada, is now available for downloading from the ARAS or SARA web sites. The file is currently just under 1.4 megabytes, and you can retrieve it by from the following URL.

<ftp://ftp.aras-sara.ca/pub/cdnca1db.zip>

For more details check out
<http://www.aras-sara.ca/>

THE RAC REPORT TO IARU: LOOKING AT THE ISSUES

There is no more important subject than our vision of the future of Amateur Radio. The RAC ad hoc committee report to the IARU is the result of careful analysis and judgment. It is a major milestone en route to the 1999 World Radio Conference (WRC-99). Governments, preparing to review international Amateur Radio regulations, are looking to the IARU for suggestions that are timely and realistic. Faced with needs for the future of Amateur Radio, RAC, as an IARU Member Society, recommends changes to international regulations that are practical and forward-looking.

Questions concerning regulations over the "Definition Of The Amateur Services", "The Banned Countries List", "The amateur Service As A Resource for Emergency Communications", "Messages on Behalf Of Third Party" and "The Technical And Operational Qualifications To Be An Amateur" are examined and explored in a straightforward manner within the report. The issue of the "Morse Code", however, took much time to consider.

What to do about the Morse Code question is the most difficult to answer. It touches upon something which, for many, is sacred. The issue is charged by firm beliefs and deep emotional feelings. Yet, we know that radiocommunications authorities in many countries are moving to have Morse Code abandoned: not as a mode of operation, but rather as an international mandatory requirement to operate below 30 MHz. While administrations may continue to use the code in their licensing program, it is no

longer viewed by some governments as a suitable international "treaty" obligation.

RAC is a solid supporter of the use of the Morse Code "mode". We cannot, however, demand that it be kept as a "mandatory" requirement in the HF licensing process. The original need, to be able to respond to government stations in CW, has disappeared. A large majority of amateurs use SSB. Many prefer modes which embrace the newer digital technologies. To suggest that the code be viewed as a "filter mechanism", to exclude those unable or unwilling to learn the code, is discriminatory. A more appropriate and effective approach, in this regard, is to ensure that licensing examinations demand more in-depth knowledge of all modes of operational and also focus on operating procedures and on operating ethics.

The RAC report to the IARU is just that, "a report". A set of proposals which will be considered, modified, adopted or rejected by the IARU. Over 150 Member Societies will be weighing the issues and presenting their recommendations to IARU over the next three years. IARU Region 1 (Europe and Africa) will address the same issues at the forthcoming October conference in Tel Aviv, Israel. Region 3 (Asia and Oceania) will deliberate on it in 1997 and Region 1 (North and South America) at Caracas, Venezuela in 1998. IARU is working hard to ensure that the decision taken at WRC-99 impact favourably on the survival and growth of Amateur Radio in the "21st century".

On behalf of the Board of Directors
and the Executive
J. Farrell Hopwood, VE7RD
President and IARU Liaison Officer
Radio Amateurs of Canada, Inc.
de RAC

LICENCES TOP 48,000 IN AUGUST

The most recent Industry Canada Amateur Radio licence database, released in early August 1996, shows 48,305 call signs issued. This figure does not represent the number of individual, distinct hams because some hold multiple calls and there are also many club and repeater calls.

RAC's Pacific Director, Dennis Livesey, VE7DK, of Delta, BC, spent a good part of his summer with a computer program analyzing the database to determine, for the first time, how these various categories break down. This data will also be very valuable in saving RAC several thousand dollars in potential duplicate mailing costs in its planned fall membership drive. Dennis' work also enables RAC to break out data by any area across the country.

The latest IC database has been sorted with the intention of separating clubs, groups, associations, hams holding more than one call, and hams who are not resident in the province that they hold a call. Here is how the numbers break down:

| | |
|--|---------|
| Original database | 48,305 |
| Clubs | |
| 1,400 | |
| Hams out-of-province | 466 |
| Hams holding multiple calls | 832 |
| Balance (with probability of some errors) | 45,356* |

*Estimated number of unique Hams in Canada

This final total when added to the clubs, out-of-province, miscellaneous, and duplicates, when checked against the others, does not tally due to the presence of several calls that were entered twice in the original database.

SHANNON LUCID COMES HOME

by Roy Neal, K6DUE

Astronaut Shannon Lucid has come home after setting a new American record for time spent in orbit. Her record setting time on the space station MIR included ham radio.

After six months in space, Shannon Lucid returned to earth. It may be weeks before she is back to normal. She may have to learn how to walk all over again, getting used to the effects of gravity.

During re-entry, she rode in a special recumbent seat on the mid deck so that she could remain supine after landing. Scientists could then examine her before she started working against gravity.

Shannon used ham radio to stay in touch with the folks back home during all those months aboard the MIR space station. She had been too busy to get an amateur license before she took off, so the Russians made special arrangements that allowed her to operate as ROMIR under the supervision of her ham radio Cosmonaut companions.

Her unorthodox technique on the air elicited comments among the amateur fraternity, but she did operate, and managed a few general QSOs in the process. These are valid for QSL cards if you were lucky enough to work her.

John Blaha, KC5TZQ, has taken Shannon's place aboard the MIR and John is an avid ham. Indeed, he even used the space shuttle radio to make a few contacts on the way up to orbit! He has been exercising the MIR ham radio station ever since the MIR and the space shuttle separated. You can look for him on 145.55 MHz simplex when MIR is in range. Check the AMSAT BBS for the best times. John will be on MIR for the next four months.

While the two spacecraft were docked, Jay Apt, N5QWL, checked out the MIR radio station and made a few contacts. Jay and

teammate Carl Walz, KC5TIE, also used the shuttle's SAREX equipment and were very active throughout the mission.

Some excellent pictures of all of these hams working their stations have been released by NASA. They were photographed using an electronic still-store camera and can be found in the "NASA Images" files on the Internet.

SAREX, of course, arranges for shuttle astronauts to talk to students and some successful contacts were reported with the Andover Middle School in Kansas, the Immaculate Conception Elementary School in Celina, Ohio, and the Royal School for Girls at Haslemere, Surrey, England.

It's another fine success story for Amateur Radio in space.

de World Radio

CANADIAN 1996 FIELD DAY RESULTS**Scores**

The listings show: club or group name, call sign(s) used, total number of QSOs, number indicating power output used (1 is more than 150 W, 2 is less than 150 W and 5 is less than 5 W), number of participants and total score including bonus points and ARRL section.

Class A stations are clubs or groups operating with more than two operators. Class B stations are portables manned by one or two operators. When there are two operators, the other operator's call is listed in parentheses, if it is known. Class C stations are mobiles. Class D stations are home stations using commercial power. Class E stations are home stations using emergency power.

Score listings are grouped according to the number of transmitters in simultaneous operation and are listed from highest to lowest in each group.

1A

North Shore ARC
 VE7NSR 824 2 75 3,632 BC
 Ottawa ARC
 VE3RC 741 2 8 3,092 ON
 W Carleton ARC
 VE3WCC 582 2 34 2,914 ON
 Bruce ARC
 VE3RCR 639 2 23 2,544 ON
 Bawating ARC
 VE3LSC 811 2 14 2,222 ON
 Algoma HF Radio Club
 VE30TL 446 2 5 2,162 ON
 Montreal ARC Inc
 VE2ARC 554 2 10 1,756 PQ
 Fabulous Flying Dinosaurs
 VE6FD 789 1 12 1,595 AB
 CRA Rive-Sud Montreal
 VE2CLM 385 2 27 1,530 PQ
 Pinawa ARC
 VE4CD 446 2 12 1,494 MB
 Granby ARC
 VE2CRG 242 2 7 1,312 PQ
 UBC ARS
 VE7UBC 411 2 30 1,252 BC

VE5YD 339 2 9 1,094 SK
 Univ of Manitoba ARS
 VE4UM 180 2 8 1,074 MB
 Trenton ARC
 VE3WV 234 2 20 1,036 ON
 Covey Hill ARC
 VE2CYH 216 2 9 934 PQ
 Rideau ARC
 VE3BPC 308 2 5 916 ON
 Concodia Univ AR
 VE2CUA 712 1 9 812 PQ
 Halton ARC
 VE30D 25 2 1 752 ON
 Lake of the Woods ARS
 VE3BBC 168 2 20 722 ON
 WIARC
 VA2MM 297 2 2 694 PQ
 Manotick ARC
 VE3AIR 144 2 5 486 ON
 Lambton Cty RC
 VE3SAR 128 2 9 356 ON

2A

Halifax ARC
 VE1FO 1413 2 60 4,342 MAR
 Radiosport Alberta
 VE6EX 721 2 2 3,262 AB
 Radio Amateurs of Canada
 VE6RAC 712 2 11 3,012 AB
 Oakville ARC
 VE3HB (+VA3VAA) 645 2 25 2,884 ON
 Canadian Police College ARC
 VE3CPC 667 2 12 2,642 ON
 VE2CVR 710 2 21 2,356 PQ
 Richmond ACR
 VE7RAR 601 2 22 2,316 BC
 CRA Laval-Laurentides
 VE2CRL 527 2 55 2,038 PQ
 Telephone Pioneers ARC
 VE2CPT 460 2 12 1,842 PQ
 N Okanagan RAC
 VE7SHH 423 2 18 1,840 BC

VA3TIA 308 2 15 1,710 ON
 Algoma ARC
 VE3S00 399 2 31 1,672 ON
 Brightleaf ARC
 W4AMC 554 2 30 1,620 BC
 North Shore ARC
 VE3NSR 391 2 12 1,492 ON
 Comox Valley ARC
 VE7CVW 317 2 2 1,478 MAR
 ZRR Repeater Group
 VE3ZRR 265 2 12 1,474 ON
 Buck Stop Radio Assoc
 VE1VEI 346 2 2 1,380 MAR
 Truro ARC
 VE1AO 275 2 31 1,352 MAR
 Peace Country ARC
 VE6ARC 422 2 2 1,300 AB
 Greenwood ARC
 VE1ARC 327 2 22 1,254 MAR
 Seaway Valley ARC
 VE3VSW 326 2 8 1,096 ON
 Club Radioamateur de St-Hyacinthe
 VE2CAM (+VE2GGM) 172 2 30 1,066 PQ
 Brandon ARC
 VE4QD 327 2 10 1,032 MB
 Niagara ARES Group
 VA3NAG 300 2 2 1,000 ON
 Qinte ARC
 VE3RL 300 2 20 946 ON
 Chilliwack ARC
 VE7AFA 297 2 27 912 BC
 Orchard City ARC
 VE7OGO 117 2 20 818 BC
 Quad Sounds ARC
 VO1QS 137 2 6 784 MAR
 Club Radio Amateur Montmagny
 XM2CRM 176 2 10 746 PQ
 Shuswap ARC
 VE7RAW 137 2 11 732 BC
 Baie-Comeau ARC
 VE2CMH 193 2 10 586 PQ
 VE3CTT 150 2 4 504 ON
 Elmira ARG
 VE3EUC 147 2 7 294 ON

3A Battery

VE2QRP 104 5 3 1,520 PQ
 CBC Employees ARS
 VE7CBC 14 5 3 375 BC

3A

Groupe HF de l'Outaouais
 VE2SEX 2090 2 29 5,828 PQ
 Regina ARA
 VE5NN 1447 2 17 5,176 SK
 Brownsburg ARC
 VE2CWB (+VE2TYD) 1586 2 19 5,132 PQ
 Peel ARC
 VE3XR (+VA3ECH) 1286 2 33 4,444 ON
 Radio Amateurs of Canada
 VE6NQ 989 2 3 4,080 AB
 Victoria-Haliburton ARA
 VE3LNZ 982 2 30 2,982 ON
 Fredericton ARC
 VE9ND 816 2 25 2,908 MAR
 OVMRC
 VE3RAM 697 2 20 2,860 ON
 Parry Sound ARC

VE3PSH 767 2 24 2,708 ON
 Surrey Seniors Repeater Group
 VE7DK 813 2 16 2,592 BC
 EARS
 VE3RSE 610 2 20 2,358 ON
 Burnaby ARC
 VE7BAR 454 2 25 2,070 BC
 Dunville ARC
 VE3AKQ 451 2 15 1,890 ON
 Club Radio Amateur de Quebec, Inc
 VE2CQ 362 2 30 1,866 PQ
 Blue Mt ARC
 VE3MTR 590 2 45 1,768 ON
 Westcom ARC
 VE1WRC 365 2 20 1,722 MAR
 Amateur Radio Educational Society
 VE6RES 292 2 8 1,476 AB
 Society of Newfoundland Radio Amate
 VO1AA 144 2 30 1,370 MAR
 Yarmouth ARC
 VE1GX 211 2 16 1,328 MAR
 Tarsands ARC
 VE6TRC 297 2 20 1,322 AB
 Delta ARS
 VE7SUN 293 2 3 1,150 BC
 Maple Ridge ARC
 VE7CMR 346 2 12 1,116 BC
 Tri-County Repeater Group
 VA3FF 317 2 14 1,034 ON
 Thornhill RAC
 VE3RAT 206 2 24 818 ON
 Boot ARC
 VO1BRC 106 2 20 690 MAR
 Ontario RACES
 N6THF 75 2 9 650 ON
 VE9SMR 15 2 10 54 NB
 VE3ZUL 25 2 3 50 ON

4A Battery

Durham Region QRP Club
 VE3QDR 661 5 13 7,245 ON

4A

Niagara Peninsulas ARC
 VE3VM 1023 2 4 2,528 ON

5A

South Pickering ARC
 VE3SPC (+VA3TMY) 1795 2 5 5,972 ON
 York Region ARC
 VE3YRA 1179 2 9 3,944 ON
 Kawartha ARES Group
 VE3RB 575 2 24 2,940 ON
 E Ontario ARC
 VE3SAU 437 2 5 1,574 ON
 Skywide ARC
 VE3ATD 261 2 10 1,378 ON
 Carleton Co. ARC
 VE9EMT 236 2 15 1,194 MAR
 Kingston ARC
 VE3UEL 171 2 7 380 ON

6A

Scarborough ARC, Inc
 VE3WE 919 2 20 3,748 ON

7A

Sudbury ARC
 VE3BLZ 236 2 32 1,572 ON
 Brantford ARC
 VE3BA 335 2 14 1,470 ON

8A Battery

Nortown ARC
 VE3NAR 1077 5 35 8,205 ON

1B-1 Op Battery

VE3RIA 313 5 1 3,085 ON
 VA3TH 190 5 3 2,200 ON
 VE3EQP 130 5 2 1,255 ON

1B-1 Op

VE7BSL 322 2 2 1,454 BC
 WBUE/VE3 152 2 1 604 ON
 VE3FME 97 2 2 388 ON
 VE3KCZ 14 2 3 128 ON

1B-2 Op

VE3ESN (+VE3CXT) 210 2 2 520 ON
 VE3FT (+VE2XL) 87 2 2 274 ON

2B-2 Op Battery

E Canadian DX Assoc
 VE3TG (+VE3SMA) 365 5 2 3,835 ON

1C

VE3HK 129 2 3 330 ON
 NL7RD 28 2 1 56 NWT

2C

VE3BFG 237 2 3 706 ON

1D

VE2AWR 332 2 1 1,192 PQ
 VE7CTW 193 2 1 772 BC
 VA3NR 183 2 1 770 ON
 VE7FSF 180 2 1 720 BC
 VE2QST 198 2 2 588 PQ
 VE6LDX 308 1 1 308 AB
 VE6ANA 36 2 1 144 AB
 VE2AQP 16 2 1 32 PQ

1E

VE7NKI 1858 2 2 5,602 BC
 VE7NF 665 2 2 1,996 BC
 VE3UZ 102 1 1 404 ON
 VE6BSV 306 1 3 306 AB
 VE2KLF 17 5 1 185 PQ

2E

VE7FB 104 2 2 208 BC

5E

Upper Canada AR Friends
 VE3URF 1413 2 12 2,866 ON