

marcOgram

Official Publication of The Montreal Amateur Radio Club Inc.
Box 53047 - RPO Dorval, Dorval Quebec H9S 5W4



Volume 50, Number 9

June 2005

“ARRL Field Day at the MAB”

Saturday - Sunday June 25-26 2005

Set-up Saturday Afternoon 13h30 and Contest Operation Saturday and Sunday

Montreal Association for the Blind Radio Room
7000 Sherbrooke Street West, Montreal

The MARC will be holding Field Day at the Montreal Association for the Blind Radio Room at 7000 Sherbrooke Street West. We plan to be operating as a 1E station and would welcome any hams who would like to participate or help organize the event. The site is accessible by public transit, with STM buses 105 and 162 stopping near the door. This is a great opportunity to participate in a ARRL Field Day and get some contesting experience. For more details and confirm your participation please contact Jim Hay and or Sheldon Werner.

A WORD FROM THE PRESIDENT

Hello,

Summer is finally here and with that comes Field Day which we will be holding at the MAB. This may be a bit different than in past years but should provide a new challenge as we operate from a fixed station. I look forward to this year's effort and hope to see you all there.

On the repeater front a temporary home for VE2RED is being actively pursued and at this righting several possibilities are being investigated

and discussions held with owners and property managers. It should not be long before VE2RED is back on the air. At this writing VE2RJS is back on the air and by the time you read this we should have recovered our antennae from the tower on Bonavista.

The public service events are always needing helpers. The Cyclo-Tour went well this year and our portable repeater was put to good use there. The Jay Challenge and Harmony Horse Trials are also coming up so consider lending a hand.

Next fall we will start off with an interesting programme - Jim Nagle, KF4OD, will be giving a talk on GPS in September to give us the basics

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.

Editor:
 Craig Brander, VE2YKG craigyul@total.net 514-488-5109

Annual fees are:
 General Members \$23.00
 Associate Members \$23.00
 White Cane Members... .. \$10.00
 Family Members (per family) \$30.00

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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Club Call Sign: VE2ARC

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

Repeaters

VE2BG 147.06 MHz (+)
 Owned and operated by the Montreal Amateur Radio Club. Located on the Pointe Claire water tower.

VE2RED 147.27 MHz (+)
 Owned and operated by the Montreal Amateur Radio Club. Located near Decarie and Cote St. Luc Road.

VE2RJS 449.975 MHz (-)
 Owned by the Montreal Amateur Radio Club and operated by the Cote St Luc Amateur Radio Association. Located near Decarie and Cote St. Luc Road.

The repeaters are open to all amateurs and VE2RED also offers a phone patch available to all amateurs during the day and evening.

Meetings of the Board of Directors

Meetings of the Board of Directors are open to any member to attend. Board meetings are held the first Wednesday of the month (Sept. to June) at 7:30 PM at the Montreal Association for the Blind, 7000 Sherbrooke St West. Should you wish to attend one of the meetings you are welcome. Just speak to one of the directors before-hand to make certain that the meeting has neither been cancelled, nor the location changed.

Club Activities Monthly Meetings

Club meetings are held at the St. Ignatius of Loyola Parish Church which is located at 4455 West Broadway (the corner of West Broadway and Terrebonne) in the N.D.G. District of Montreal. The meetings will be held in the Lounge which is the rearmost door on the south side of the building unless we have reason to hold it in the Parish Hall which is the first door on the South side of the building. An informal fleamarket and ragchew session starts at 19:30 with the formal meeting starting at 20:00. The STM buses 51, 162 and 105 stop nearby.

28 September - GPS basics with Jim Nagle, KE4OD
 26 October - MARC Annual General Meeting
 30 November - WASS with Jim Nagle, KE4OD

Radio Classes

Each year the MARC holds a basic radio course. This year's session finished in April. For more information please contact Vern Ikeda.

ARRL Field Day Station

Preparations are ongoing to run an ARRL Field Day, 25 and 26 June, station in association with the MAB. For more information or to join this year's event please contact Jim Hay or Sheldon Werner

Canada Day Station

Preparations are ongoing to run a Canada Day station during Canada Day festivities in Dorval. For more information contact Jim Hay or Vern Ikeda.

DVCAM- Ham Project

Production of a video to promote Amateur Radio is currently ongoing. For a status report on the project check:

<http://rjcam.blogspot.com>

If you have an interesting story to share on camera please email video@marc.ca or contact Jim Hay or Ron Campbell.

IN CASE OF EMERGENCY

Montreal 911 Centre 514-280-2121
 Laval 911 Centre450-662-4240
 Longueuil 911 Centre450-646-8570
 Sûreté du Québec 310-4141
 Kahnawake Peace Keepers 450-632-6505

These numbers are for emergencies ONLY

before his talk in November on WAAS. This promises to be an interesting pair of evenings from an expert on the subject.

With the warmer weather upon us we're all outside more and getting the antenna work done. Please take care when working outside and have a safe summer. I look forward to seeing you at Field Day.

73 de Jim, VE2VE
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FROM THE EDITOR'S DESK

I would like to take this opportunity to wish you a great holiday season and hope you will enjoy amateur radio over the summer. There are several opportunities coming up to use amateur radio and I hope you will be able to take advantage of some of these.

See if you can create some opportunities to promote our hobby over the summer. And if you have the opportunity to write something, the Marcogram can always use an article or two. So have a safe summer and see you in the fall

One great opportunity to participate in a contest, is the ARRL field day operation. Please contact Sheldon Werner or Jim Hay to confirm your participation or for more details.

73 de Craig, VE2YGK
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CONTEST CALENDAR

More on contests including full rules can be found on the Internet. Check:

<http://www.hornucopia.com/contestcal/index.html>

This site has concise rules etc., for the current week's contests.

June 2005

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| All Asian DX Contest CW | 0000Z Jun 18 to 2400Z Jun 19 |
| AGCW VHF/UHF Contest | 1600Z-1900Z Jun 18 (144) and 1900Z-2100Z Jun 18 (432) |
| West Virginia QSO Party | 1600Z Jun 18 to 0200Z Jun 19 |
| Quebec QSO Party | 1700Z Jun 18 to 0300Z Jun 19 |
| Kid's Day Contest | 1800Z-2400Z Jun 18 |
| RSGB 80m Club Championship SSB | 2000Z-2130Z Jun 23 |
| Marconi Memorial HF Contest | 1400Z Jun 25 to 1400Z Jun 26 |
| ARCI Milliwatt Field Day | 1800Z Jun 25 to 2100Z Jun 26 |

ARRL Field Day
His Maj. King of Spain Contest SSB

1800Z Jun 25 to 2100Z Jun 26
1800Z Jun 25 to 1800Z Jun 26

July 2005

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|------------------------------------|-----------------------------------|
| RAC Canada Day Contest | 0000Z-2359Z Jul 1 |
| NCCC Thursday Sprint | 0230Z-0300Z Jul 1 |
| Venezuelan Ind. Day Contest | 0000Z Jul 2 to 2359Z Jul 3 |
| World Lighthouse Contest | 0600Z Jul 2 to 1200Z Jul 3 |
| Original QRP Contest | 1500Z Jul 2 to 1500Z Jul 3 |
| DARC 10-Meter Digital Contest | 1100Z-1700Z Jul 3 |
| RSGB 80m Club Championship CW | 2000Z-2130Z Jul 4 |
| MI QRP July 4th CW Sprint | 2300Z Jul 4 to 0300Z Jul 5 |
| NCCC Thursday Sprint | 0230Z-0300Z Jul 8 |
| VK/Trans-Tasman 160m Contest Phone | 0800Z-1400Z Jul 9 |
| IARU HF World Championship | 1200Z Jul 9 to 1200Z Jul 10 |
| FISTS Summer Sprint | 1700Z-2100Z Jul 9 |
| ARCI Summer Homebrew Sprint | 2000Z-2400Z Jul 10 |
| RSGB 80m Club Championship SSB | 2000Z-2130Z Jul 13 |
| NCCC Thursday Sprint | 0230Z-0300Z Jul 15 |
| CQ Worldwide VHF Contest | 1800Z Jul 16 to 2100Z Jul 17 |
| North American QSO Party RTTY | 1800Z Jul 16 to 0600Z Jul 17 |
| RSGB Low Power Field Day | 0900Z-1600Z Jul 17 |
| RSGB 80m Club Championship Data | 2000Z-2130Z Jul 21 |
| NCCC Thursday Sprint | 0230Z-0300Z Jul 22 |
| Great Lakes Sweepstakes | 0000Z Jul 23 to 2359Z Jul 24 |
| VK/Trans-Tasman 160m Contest CW | 0800Z-1400Z Jul 23 |
| RSGB IOTA Contest | 1200Z Jul 30 to 1200Z Jul 31 |
| ARS Flight of the Bumblebees | 1700Z-2100Z Jul 31 |

August 2005

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| TARA Grid Dip Shindig | 0000Z-2400Z Aug 6 |
| 10-10 Int. Summer Contest SSB | 0001Z Aug 6 to 2359Z Aug 7 |
| National Lighthouse Weekend QSO Contest | 0001Z Aug 6 to 2359Z Aug 7 |
| European HF Championship | 1200Z-2359Z Aug 6 |
| ARRL UHF Contest | 1800Z Aug 6 to 1800Z Aug 7 |
| North America QSO Party CW | 1800Z Aug 6 to 0600Z Aug 7 |
| RSGB RoPoCo 2 | 0700Z-0900Z Aug 7 |
| SARL HF Phone Contest | 1230Z-1630Z Aug 7 |
| NCCC Thursday Sprint | 0230Z-0300Z Aug 12 |
| WAE DX Contest CW | 0000Z Aug 13 to 2359Z Aug 14 |
| Maryland-DC QSO Party | 1600Z Aug 13 to 0400Z Aug 14 and 1600Z-2359Z Aug 14 |
| NCCC Thursday Sprint | 0230Z-0300Z Aug 19 |
| SARTG WW RTTY Contest | 0000Z-0800Z Aug 20 and 1600Z-2400Z Aug 20 and 0800Z-1600Z Aug 21 |
| ARRL 10 GHZ and Up Contest | 0600 local Aug 20 to 2400 local Aug 21 |
| Keyman's Club of Japan Contest | 1200Z Aug 20 to 1200Z Aug 21 |
| North American QSO Party SSB | 1800Z Aug 20 to 0600Z Aug 21 |
| New Jersey QSO Party | 2000Z Aug 20 to 0700Z Aug 21 and 1300Z Aug 21 to 0200Z Aug 22 |
| NCCC Thursday Sprint | 0230Z-0300Z Aug 26 |
| ALARA Contest | 0600Z Aug 27 to 1159Z Aug 28 |
| Hawaii QSO Party | 0700Z Aug 27 to 2200Z Aug 28 |
| SCC RTTY Championship | 1200Z Aug 27 to 1159Z Aug 28 |
| YO DX HF Contest | 1200Z Aug 27 to 1200Z Aug 28 |
| Ohio QSO Party | 1600Z Aug 27 to 0400Z Aug 28 |
| SARL HF CW Contest | 1230Z-1630Z Aug 28 |
| Kentucky QSO Party | 1600Z Aug 28 to 0400Z Aug 29 |

September 2005

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|-------------------------------------|---|
| NCCC Thursday Sprint | 0230Z-0300Z Sep 2 |
| All Asian DX Contest Phone | 0000Z Sep 3 to 2400Z Sep 4 |
| Wake-Up! QRP Sprint | 400Z-0600Z Sep 3 |
| AGCW Straight Key Party | 1300Z-1600Z Sep 3 |
| IARU Region 1 Field Day SSB | 1300Z Sep 3 to 1259Z Sep 4 |
| RSGB SSB Field Day | 1300Z Sep 3 to 1300Z Sep 4 |
| DARC 10-Meter Digital Contest | 1100Z-1700Z Sep 4 |
| MI QRP Labour Day CW Sprint | 2300Z Sep 5 to 0300Z Sep 6 |
| WAE DX Contest SSB | 0000Z Sep 10 to 2359Z Sep 11 |
| Swiss HTC QRP Sprint | 1300Z-1900Z Sep 10 |
| ARRL September VHF QSO Party | 1800Z Sep 10 to 0300Z Sep 12 |
| North American Sprint CW | 0000Z-0400Z Sep 11 |
| Tennessee QSO Party | 1800Z Sep 11 to 0100Z Sep 12 |
| ARCI End of Summer PSK31 Sprint | 2000Z-2400Z Sep 11 |
| YLRL Howdy Days | 1400Z Sep 14 to 0200Z Sep 16 |
| SARL VHF/UHF Contest | 1000Z Sep 16 to 1000Z Sep 18 |
| ARRL 10 GHZ and Up Contest | 0600 local Sep 17 to 2400 local Sep 18 |
| Scandinavian Activity Contest CW | 1200Z Sep 17 to 1200Z Sep 18 |
| Washington State Salmon Run | 1600Z Sep 17 to 0700Z Sep 18 and 1600Z-2400Z Sep 18 |
| QCWA Fall QSO Party | 1800Z Sep 17 to 1800Z Sep 18 |
| North American Sprint SSB | 0000Z-0400Z Sep 18 |
| CQ Worldwide DX Contest RTTY | 0000Z Sep 24 to 2400Z Sep 25 |
| Tesla Cup | 0000Z-2400Z Sep 24 (Phone) and 0000Z-2400Z Sep 25 (CW) |
| Scandinavian Activity Contest SSB | 1200Z Sep 24 to 1200Z Sep 25 |
| Texas QSO Party | 1400Z Sep 24 to 0200Z Sep 25 and 1400Z-2000Z Sep 25 |
| AGCW VHF/UHF Contest | 1600Z-1900Z Sep 24 (144) and 1900Z-2100Z Sep 24 (432) |
| UBA ON Contest 6m | 0600Z-1000Z Sep 25 |
| Fall QRP Homebrewer Sprint | 0000Z-0400Z Sep 26 |

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COMING EVENTS

For up to date Canadian Fleamarket listings, please check the Radio Amateurs of Canada site at:

<http://rac.eton.ca/>

or for up to date American listings, go to the American Radio Relay League Hamfest website at:

<http://www.arrl.org/hamfest.html>

2005 Hamfests

Saturday June 18 Oshawa ON

On Saturday, June 18, the Whitby Hamfest, held at the Royal Canadian Legion - Branch 43, 471 Simcoe Street South, Oshawa, ON.

Vendors 07:00 Public 09:00 to 13:00. Admission - \$5.00
Tables \$10.00 + \$5.00

Admission - Talk-in - VE3WOM 147.150 (+)

Information/Reservations:

Betty Huider, 87 Thickson Road, North
Whitby, ON LIN 3P7 or Phone 905-579-1800

E-mail: ve3blh@rac.ca

<http://www.whitbyarc.org>

Saturday July 09 Milton ON

On Saturday, July 9, the Ontario Hamfest 2005 at the Milton Agricultural Fairgrounds, Milton ON.

Times Inside Vendors: 07h00 - Robert Street Gate only -

Tailgaters: 08h00 - Robert Street gate only

General Admission: 09h00 - Thomas St gate only.

General Admission - 6.00\$ Inside Vendors - 10.00\$ per table plus 6.00\$ per person Tailgaters - 5.00\$ tailgate permit (per space) + 6.00\$ per person.

Talk-in: 146.520 Simplex

E-mail: ve3czi@rac.ca or Norm at (905)-335-8962

<http://home.cogeco.ca/~barc>

Saturday August 6 St. Romuald QC

Hamfest de ARES (St. Romuald Hamfest)

<http://www.aresqc.org>

Saturday September 03 Carp ON

Ottawa Amateur Radio Club 8th Annual Hamfest.

<http://oarc.net/fleamarket>

Saturday September 10 Ballston Spa NY

Saratoga County R.A.C.E.S - Hamfest 2005

<http://wa2umx.net>

Saturday September 24 Drummondville QC

17th Annual Hamfest Centre du Québec

17eme Annuale Hamfest Centre du Québec

<http://www.9bit.qc.ca/~ve2crd/hamfest/index.html>

Saturday October 22 Longueuil QC

Hamfest de Rive-sud de Montréal - Longueuil, Québec

Web page: <http://www.ve2clm.ca/hamfesta.htm>

73 de Vernon Erle Ikeda, VE2QQ

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MAY MEETING

MURRAY EPSTEIN, VE2AUU, ON RAC

Those of you who came out to the May meeting heard a very interesting talk by Murray Epstein, VE2AUU



Murray Epstein, VE2AUU, at the May 25th meeting of the Montreal Amateur Radio Club.

been licensed since 1990 and has been a member of the club for an number of years. He is active in various Amateur Radio Public Service events and brings with him community service related experience including the St. John's Ambulance. Welcome aboard Raymond and we wish you every success with your new responsibilities.

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MORSE CODE VERSUS TEXT MESSAGING : WHO ' S FASTER ?

For those who may be interested there is currently a download from the RAC web site, "Morse Code versus Text Messaging: Who's Faster?" This is a demonstration showing Morse Code to be faster than text messaging from he Jay Leno show. The link for the download is:

<http://www.rac.ca/downloads/JayLenoMorseCode.mV>

There is also a direct link on <http://www.rac.ca>.

From:

<http://www.rac.ca/>

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A THANK-YOU FROM THE WHITE CANERS

Earl Paris, VE2ESP, on behalf of the white caners, would like to thank those who have helped out with transportation from the meetings and the MAB over the year. Sincere thanks goes out to Don Dashney, VE3RM, Vern Ikeda, VE2QQ, Paul 'Mac' MacDougall, VA2YQ, and Ray Faguy, VA2SJA, for you help. Your efforts are greatly appreciated by the white caners.

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RAY FAGUY, VA2SJA, NAMED SECTION MANAGER FOR QUEBEC

One of the announcements made by Murray Epstein, VE2AUU, at the May 25th meeting of the Montreal Amateur Radio Club, was the naming of Raymond Faguy, VE2SJA as Quebec Section Manager.

For those of you might not know Raymond, he has

VIDEO PROJECT UPDATE

The DVCAM-HAM project is going fine. We took some footage at the St. Lazare Cyclo-Tour and we managed to obtain a few shots of active hams in some form or the other. If you are interested, you can go to the Blog site:

<http://rjcam.blogspot.com/>



Proposed logo for the video project - from <http://rjcam.blogspot.com/> and Ron Campbell

and see a few still shots I took.

The next events to consider are the ARRL Field Day in association with MAB and also the Canada Day station.

73 de Ron, VA2RJC

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COMMUNITY SERVICE

2005 EDITION OF ST. LAZARE CYCLO-TOUR

The 2005 Edition of St. Lazare Cyclo-Tour was held Sunday, May 29, 2005 and communications were organized by the St. Lazare Communications Group (VE2LZR). Amateur radio operators came from the Montreal Amateur Radio Club (VE2ARC), West Island Amateur Radio Club (VE2CWI), Western Quebec VHF/UHF Amateur Radio Club (VE2RM), Covey Hill Amateur Radio Club (VE2CYH) and the Prescott-Russell ARES Group (VA3PRA).

The following amateur radio operators were present to assist in providing communications:

Croydon Snowdon, VA2CLS
 Carole Albert, VA2MOO
 Max Davies, VA2PMD
 Ron Campbell, VA2RJC
 François Daigneault, VE2AAY



The 2005 Cyclo-Tour
 - from <http://rjcam.blogspot.com/>
 and Ron Campbell

In addition, thanks to Régent Marineau, VE2MRA for allowing the Montreal Amateur Radio Club portable repeater (147.015 +) to be placed at the St. Lazare Firehall. Régent is an officer with the Fire Department and many thanks to him for graciously arranging a central location for the portable repeater.

Ken Magee would like to thank all the above amateur radio operators on behalf of the organizing committee of the Cyclo-Tour for helping make this annual event safer for all the participants.

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CANADA DAY STATION

Set-up begins around 13:00 at Pine Beach Park which is located at the intersection of Lakeshore Drive and

Pine Beach Blvd. in Dorval. Operation starts for the Canada station will be going ahead as usual from 15:00 to after the fireworks end, about 22:15 or 22:30. We can use a few bodies to show the flag and also for the fireworks we provide some of the safety control around the dock area. Its always a good time to promote amateur radio. Contact Jim Hay or Vern Ikeda to confirm details, and for more information

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10,000 feet.

HARMONY HORSE TRIALS - REVISED

The cross country portion for the Harmony Horse Trials will take place on Sunday the 7th of August. (This is a change from what was previously announced, so please revise your calendars accordingly.) More details for this important event will be available a bit latter. The Trials are held in Ste-Justine de Newton.

This is a cross country equestrian event where ham communication is at it's best and provides a very good service for the competitors. If you are interested please contact Ken at ve2exc@rac.ca

73 de Ken, VE2EXC for the VE2LZR Group

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JAY CHALLENGE

The preparations for the Jay Challenge is in full swing and I am looking for hams that might enjoy spending a lovely weekend in the Vermont countryside. This is a cross country 3 day event. The event will begin on Friday the 29th of July and ends on July 31st. Last year we covered this event and we had a great time. Positions for the Friday portion of the event are filled and we are still looking for more volunteers to cover the Saturday and Sunday events. The three days event happens as follows:

On Friday is the "Jay Crossover" a 25 miles crossing of lake Memphremagog from Magog Que. to Newport Vermont;

On Saturday is the "Jay Mountain Marathon" a 28 miles off road marathon up Jay Peak;

On Sunday is the "Jay Mountain Bike Race" a 64 miles race up and around Jay including a total climb of

The lodging and food is supplied. If you want more info on the event, contact me, Ray, at ve2sja@rac.ca or visit the website at

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

73 de Raymond, VE2SJA

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MAB SPRING STATION WORK

The work on Earl's antenna is in hand and will be taken care of in the next few weeks. Once it is done we will have to schedule some work at the MAB sometime after Field Day.

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CLASSIFIED

DEADLINE for classified ads is the second Wednesday before the monthly meeting.

FOR SALE: Transmitting Tubes : All new
4 - 250, 4 - 400, 4CX250B, 4CX300 (Plus sockets)
Above either EIMAC or PL. Prices negotiable.

Call Mac VA2YQ 514 482 3642 or by
e-mail: redmaple@ca.inter.net

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RADIO HF
C.P./BOX 67063-Lemoyne
St. Lambert, Quebec
J4R 2T8

Sheldon Harvey, Prop.
VE2SHW

TELEPHONE & FAX: 450-671-3773

SANS-FRAIS/TOLL FREE:
1-800-463-3773

E-MAIL/COURRIEL:
info@radiohf.ca

WEB:
www.radiohf.ca

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A.O.R., DRAKE, FAIRHAVEN, GRUNDIG/ETON, ICOM, SANGEAN, SONY, YAESU

SCANNERS / BALAYEURS D'ONDES
A.O.R., ALINCO, ICOM, UNIDEN/BEARCAT, WINRADIO, YUPITERU

AMATEUR RADIO / RADIO-AMATEUR
A.D.I., ALINCO, ICOM, KENWOOD, RANGER, YAESU

CITIZENS BAND (CB) / BANDE PUBLIQUE (CB)
ALAN, ASTATIC, COBRA, GALAXY, K40, MACO, MAGNUM, MIDLAND, PARADYNAMICS,
RANGER, ROAD NOISE, SHAKESPEARE, SOLARCON/ANTRON, UNIDEN, VALOR/PRO-AM, WIL-
SON, WORKMAN

FAMILY RADIO SERVICE (FRS) / DISPOSITIFS RADIO DOMESTIQUES (DRD)
AUDIOVOX, COBRA, ICOM, KENWOOD, MOTOROLA

ANTENNAS / ANTENNES
ALPHA DELTA, ANTENNA SUPERMARKET, ARROW, ATOC, BUTTERNUT, COMET, CREATE,
CUSHCRAFT, DIAMOND, FIRESTICK, FORCE 12, HUSTLER, HYGAIN, LARSEN, MFJ, MIRACLE AN-
TENNA, OUTBACKER, PRYME, SCANMASTER, VALOR/PRO-AM, VAN GORDEN, WORKMAN

SPECIALTY PRODUCTS / PRODUITS SPECIALISES
AMERITRON, ASTRON, BENCHER, DAIWA, D.C.I., GARMIN, GEOCRON, HEIL, KANTRONICS,
KIWA ELECTRONICS, L.D.G., MAGELLAN, MAHA, MFJ, MIRAGE, NYE VIKING, OPTOELECTRON-
ICS, PALOMAR ENGINEERS, PALSTAR, PREMIER, RF CONCEPTS, R.F. SYSTEMS, RIGBLASTER,
S.G.C., TIMEWAVE, UNADILLA, UNIVERSAL, VECTRONICS, VIBROPLEX,
WEST MOUNTAIN RADIO

PUBLICATIONS / PUBLICATIONS
AMERICAN RADIO RELAY LEAGUE (ARRL), ARTSCI, BAYLIN PUBLICATIONS, BILLBOARD
(WRTH), CQ, CRB, HIGHTEXT, IBS (PASSPORT), KLINGENFUSS, LOOMPANICS, NATIONAL RADIO
CLUB, RADIO SOCIETY OF GREAT BRITAIN, RADIO AMATEUR CALLBOOK, RADIO AMATEURS
OF CANADA, RADIO AMATEURS DU QUEBEC, SCHIFFER BOOKS, SONORAN, TAB,
TIARE, UNIVERSAL RADIO