



The **NEWSCASTER**

The Official Publication of the Winnipeg Amateur Radio Club
<http://www.WinnipegARC.org>

September 2015

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VE4BB

Welcome Back! *Field Day 2015 Wrap-Up* *By Gary VA4RWT*

Date: Monday, September 14, 2015
Time: 7:30 PM
Place: Dakota Collegiate - Theatre *See you there!*
661 Dakota Street (At Beliveau Rd.)

Other Important Dates...

Newscaster: Deadline September 30, 2015
WARC: Monthly Meeting Dates...
October 19, 2015 AGM
WSC: 2nd Thursday of month
Breakfast - Garden City Inn
ARES: Tuesday, September 15, 2015
Sir Wm Stephenson Library
765 Keewatin Street - Bartley Kives
speaking on skin damage from sun
exposure
Other: Red River Radio Amateur Hamfest
Saturday, September 26, 2015
Fall Flea Market -
Sunday, October 18, 2015

WARC Executive for 2015-2016...

President	David Latour	ve4dla@gmail.com
Vice-Pres.	Rolf Bandlow	rolban@mymts.net
Treasurer	Bob Jacobs	rcjacobs@hotmail.ca
Secretary	Gerry Sherman	ve4gks@outlook.com
Membership	Ross Gibson	rossg@prefixservice.com
Programs	Peter Toth	ve4th@gmail.com
Director	Chris Dickens	dickens67@hotmail.com
Past President	Garth Blumm	ve4gwb@gmail.com
Public Information Officer....	Kurt Sargent	kurtsargent@gmail.com

From the President's desk ...

End of Summer?
You wouldn't credit it from the weather, recently.
But here it is, September again, and the start of our
meeting schedule in a week. How time flies!

I am pleased to announce we have a full comple-
ment of Executives for this year, and the following
administrative positions have been filled:

President:	David Latour VE4DLA
Vice-President:	Rolf Bandlow VE4VZ
Treasurer:	Bob Jacobs VE4RCJ
Secretary:	Gerry Sherman VE4GKS
Membership:	Ross Gibson VE4RWG
Programming:	Peter Toth VE4TTH
Member-at-large:	Chris Davis VE4CK

I'm sure you will make them welcome and give them
all the support and assistance they require to make
this year the best the Club has seen recently.

We have a number of openings for speakers still, so
if any of you have ideas on what topics you would
like to hear about, please contact Peter (who has
many good ideas already.)

We are planning some "maker days" this year, and
although a suitable space still needs to be confirmed,
we are confident that one will be found in good time.

Registration for our Basic Qualification Course at
Shaftesbury High is well-underway, and we look
forward to welcoming a fresh crop of hams to our
group before Christmas. We have also begun a se-
ries of talks in schools, to plant the seed of amateur
radio in the fertile minds of the young, boowah-ha-
ha...

This is also the month to renew our memberships in
WARC. Please see Ross at the first meeting, or visit
the on-line renewal on our website. Mailing a
cheque still works, as well. While we welcome all
comers to meetings, only paid-up members can
make motions, second motions, or vote.

Continued...

Our Vision

*To increase public awareness and respect for Amateur radio; to provide education
and support in all aspects of the hobby to our members in a social atmosphere*

I will encourage all WARC members to join Radio Amateurs of Canada also, as this will save the Club considerably on our insurance premium (and leave more money in the programmes kitty), as well as providing the individual members with quality, affordable liability insurance.

We are also very pleased to announce that a new Flea Market co-ordinator has volunteered to take over from Dick VE4HK. Peter VE4TTH will step into the position for Spring 2016, and we look forward to many more successful events in the future.

73,
David Latour VE4DLA
President

Registrations are still open for BSC 10 ...

http://winnipegarc.org/basic_course.html

Pass on the link to your family or friends

*WARC Meeting Minutes,
June 8, 2015
Submitted by Gerry VE4GKS*

Meeting called to order 00:30

Introductions

Minutes from last month
Business arising

Treasurer Report
Bank Balance \$10,660

Membership
No membership changes from last month

Education
New basic course planned for mid September.

ARES report
Marathon plans.

DX report
By VE4SN

Flea Market
Need a new coordinator.

FD discussion
Followed

VE4TTH & VE4CK are the new executive members, plus the 5 existing members.



L-R Bob VE2RCJ Treasurer, Ross VE4RWG Membership, Gerry VE4GKS Secretary, Chris VE4CK Director At Large, Rolf VE4VZ Vice-President, David VE4DLA President and Peter VE4TTH Programs



Are you a
RAC member??

<http://www.rac.ca>

*From Your RAC Midwest Director
Derek Hay VE4HAY*

Are you current with Industry Canada?

I would like to bring to your attention the following according to Industry Canada, A call sign will be issued using a prefix based on where the applicant resides. An amateur who subsequently changes his residence from one call sign prefix area to another shall apply for a change of call sign with the prefix allocated for this new area of operation.

<http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf02102.html#sect12>

Help us keep the Database current and accurate.

We have a new Deputy Director

Thank you to BJ Madsen for accepting the position of Deputy Director for the Midwest region of Radio Amateurs of Canada. As some of you may recall BJ was previously the Director for the region (two directors ago). His experience and dedication to the hobby and the position of deputy Director are greatly appreciated. Please feel free to congratulate BJ, as you see fit and to contact him or myself if you have any questions of concerns about RAC.

WARC's Basic Short Course Development- 2

By David Rosner VE4DAR

Last time we looked at the history. Now let's examine education theory and course structure components at the core of success:

Know your students. Are they youth with limited knowledge and few life experiences? Youth are usually still in school with assignments, sports or music practices, and part time jobs. Are they seniors with considerable knowledge and life experiences, but need to refresh their learning skills and update on recent technologies? Are they the "in betweens" coming to your classes tired from the job, and burdened by the demands of family life? Then there are students, who have experience with CB; are electronics grads; are currently serving military; or university graduates in computer science or engineering. Accommodations have to be made for visually or physically impaired students. How do you accommodate all in one brief course?

Everyone learns through three modes: visual, auditory and kinesthetics (doing, manipulating objects, feeling). We use all three modes, individually and in combination, but may prefer one mode. Every class has persons who like to learn by seeing/reading, or hearing/discussing, or "hands on". Visual and kinesthetic learners/communicators tune out in the first 10 minutes when an instructor talks on and on. Thus, WARC's instructors are expected to address all three modes in every class to ensure no one is left out or turned off. Also, three modes convey an idea from several perspectives.

Students need to encounter ideas at least three times for understanding and retention. The first is the pre-read of the chapter and other assignments. Next encounter is in-class learning. The third is homework, which includes reviewing the readings/class notes/handouts, and doing the related questions from Industry Canada's question bank. Our recommendation is to use exHAMiner found on the Internet. (We know that some students qualify for their ticket by just doing the questions repeatedly.)

Repetition and review are the keys to success. Students are advised to go over the material several times. Forgetting is normal, so review is necessary.

RAC's Study Guide is supplemented with our Yellow Booklet. We expect students to memorize three items BEFORE classes begin: International Phonetic Alphabet, Canada's call sign prefixes, and the list of Q signals from IC's question bank. They can be found in the

booklet we created along with other items such as an introduction to amateur radio; how to succeed in our course; a glossary; useful websites; and local info such as nets, WARC's Flea Market and Field Day.

WARC's Basic Short Course Structure. Moving from a 3-month to a 5-day course has boosted our enrollments.

Our course runs five consecutive Saturdays skipping any holiday weekends. Classes run from 0900 to 1600 hours, with an hour for lunch. A class runs 50 minutes with a 10-minute break. Because the course is short, it is geared to helping students be successful on IC's Basic Qualification Exam. We expect students to continue learning and to pick up operating experience after getting their ticket. Here's where Elmers can be most helpful.

We like to register students well before the course begins. Then we can give them the textbook and Yellow Folder so they can begin prereading and memorizing.

The first four classes are based on the textbook chapters. Recently we have added a fifth Saturday. In the morning, students write IC's Basic Exam administered by an independent IC examiner. In the afternoon, there is a "practical" session, which can vary from advising students on equipping their first station to making something such as a roll up J-pole.

Now, new graduates can get a first-year membership free in WARC, MRS and RAC.

Reminder: A video of an instructor conducting a class is merely a history of what happened. It is NOT a teaching video. In our case it would be 50 minutes long; way too long to have students just sit and watch. You need to consider attention spans.

An effective teaching video focuses on one - three main points, and runs 10 - 20 minutes. It may contain an instructor talking, using visual aids. It could have good graphics with a voice-over and include a short movie. Ideally, it would be followed by discussion, or a worksheet/quiz for students, or skill practice.

Telling is not teaching; you need to involve the learner. A video is an assist, helping the instructor present ideas or how to do something. Students still have to work the info or practice the skill.

I trust these comments will assist readers to appreciate what goes into making WARC's Basic Short Courses successful.

David Rosner VE4DAR.



Manitoba Marathon

Jeff Dovyak VE4MBQ

ve4mbq@rac.ca

Almost eighty Amateurs and several non-Amateurs assisted Winnipeg ARES to provide volunteer Amateur Radio communications for the 2015 Manitoba Marathon on Father's Day SUN 21 JUNE. We had five new or newer Amateurs also involved.

Volunteers included:

VE4s: NQ, GTX, QB, BOY, DAE, VZ, MMW, JDH, MHZ, GLS, SE, XYL, SBS, LYN, JAL, CST, PH, PEH, MMG, RIC, LIT, ANF, DJS, VID, PPG, CEU, HQ, JYC, TSY, CEL, HK, JAH, GWB, HAY, AJO, GIS, UG, UK, STS, MWH, STL, RST, EH, HAZ, GWN, ESX, ACX, YYL, CDM, JNF, NCH, TTH, JHJ, WTF, MAB, JFK, KAZ, QV, SCH, SYM, TRO, SIG, RDO, DWG, JS, DLA, VB, GKS, EA, MBQ.
VA4s: RWT, CAT, DON, AIN, JCH, MAC, IAM, AJG, Betty Pettapiece, Mary Perchaluk, Max Perchaluk, Gail Lamoureux and Rhonda Dovyak.

Biggest change for 2015 was unavailability of WSCRC due to structural renovations so Hospitality Net Control was located at the Marathon Comm Centre with the other Net Controllers – we will keep this model in years to come.

While we couldn't do the event without our dependable volunteers, we also depend on several Amateur Radio organizations to provide support.

Supporting organizations for 2015 included:

Winnipeg ARES
Winnipeg Amateur Radio Club
Manitoba Repeater Society
Pathfinders Amateur Radio Club
South-Central ARES
Brokenhead ARES.

Please see the WARC or Winnipeg ARES web-sites for the detailed 2015 Manitoba Marathon Report.

www.winnipegarc.org or www.winnipegares.ca

2015 Marathon Comm Centre *Photo by Derek VE4HAY*

Winnipeg ARES

Jeff Dovyak VE4MBQ

ve4mbq@rac.ca

Garry Frankel VE4VD gave us a terrific overview at our AUG General Meeting of Doctors Without Borders (MSF) based on a photo-shoot he did at The Forks several years ago when MSF had set up a mock Displaced Persons camp. Thanks to David VE4DLA and Winnipeg Amateur Radio Club for loaning us a digital projector with HDMI input for Garry's presentation.

The ad hoc NBEMS group being facilitated by Jim VE4SIG has had its second hands-on working session and the next session is being planned.



15 AUG NBEMS Session

Photo Credit Garry Frankel VE4VD

At press time Dick VE4HK will be coordinating about a dozen Winnipeg ARES members who are providing volunteer Amateur Radio communications SAT 12 SEP for the Parkinson SuperWalk at U of M Fort Garry Campus.

Craig Martin VDE4CDM stepped down as Fund Raising Chair in late spring, Hamish Donaldson VE4JDH and Nicki Albus VE4MWW have stepped up as Co-Chairs for Fundraising.

Our next General Meeting is TUE 15 SEP 1900h Sir Wm Stephenson Library 765 Keewatin St. Bartley Kives from The Winnipeg Free Press is scheduled to speak about skin damage from excessive sun exposure.

We still need approximately ten Amateurs for the Santa Claus/Grey Cup Parade SAT 28 NOV. Volunteer briefing will be TUE 17 NOV 1900h at NOV General Meeting. To volunteer for Santa Claus Parade please contact ve4mbq@rac.ca

To Digital or not to Digital - That is the question.

By Derek Hay

I feel that today's age of amateur radio could be compared to the early days of amateur radio, when FM was just coming into existence, but only on a worse case scenario. Let's call that period the olden days, when everyone had AM receiver and transmitters. Continuous wave was everywhere and some people were using Single Side Band. Everything was tubes back then as well. We were in a steep learning curve with FM. Many were no doubt pondering if they should invest in this mode of modulation. Who would they talk to? Who else had FM capability?

Fast forward to today and you rarely hear an AM signal on amateur radio anymore. Ever wonder why?

On the HF bands, SSB has over taken over as more signal is able to get out and through the vastness of our world, thus providing greater long distance communication than using plain old AM. CW, while still relevant has also given way to phone as a preferred method of communication. Especially when we can simply just change bands as the conditions change to almost ensure our signal is heard. Yes, CW can get through when conditions are at their worst. But so can other modes on HF and even better and faster the CW.

On the VHF & higher frequencies, I have never heard an AM signal. Everything here is FM with some SSB (very little) for those looking for grid squares and some DX'ing. Now I am not saying that we should use AM with its scratchy, noisy signals. But no means would I suggest that. FM is a much superior modulation method of communicating. And by superior I mean quality or clarity of the signal transmitted and received as compared to AM, SSB or even CW. FM is the standard for the very high frequencies. This article is about leaving our glorious FM and going to digital.

But here in lies the quandary, which mode of digital should we go with?

All three of the big name manufacturers each have their own digital encoding scheme or codec (short for coder/decoder - a device that encodes or decodes a signal). And guess what they are not compatible with each other.

Icom has D-star - (Digital Smart Technologies for Amateur Radio) is a digital voice and data protocol specification for amateur radio. The system was developed in the late 1990s by the Japan Amateur Radio League and uses frequency-division multiple access and minimum-shift keying in its packet-based standard.

What have you done to "promote amateur radio this week"

That line we credit to an old News stalwart, Peter Parker with using in his old VK1 and VK3 casts many years ago and it still stands true -WIA

Yeasu has Fusion - or C4FM which stands for Continuous 4-Level Frequency Modulation. C4FM is form of frequency modulation where the carrier is shifted in frequency at a particular rate to a particular location around a centre frequency - there are four positions, hence the name. This allows for each of the 4 "states" to represent a binary number. Each state is a known as a "Symbol" which contains two bits of information. C4FM modulation may be viewed as a type of Differential Quadrature Phase Shift Keying, DQPSK. Each symbol is shifted in phase by 45° from the previous symbol. Although the phase and hence the frequency is modulated for C4FM, the amplitude of the carrier is constant, generating a constant envelope frequency modulated waveform.

Kenwood at this time does not seem to have an amateur radio digital standard. However, their commercial side of the business is using NexEdge which is basically NXDN™ - a very narrowband protocol employing 6.25/12.5 KHz FDMA technology. Data is transmitted using 4-level frequency-shift keying (FSK) modulation. NXDN uses the AMBE+2 vocoder (codec) for digital audio. This combination provides better weak-signal voice quality than for analog FM. For an equivalent transmitter power, NXDN is represented as having a wider range and slightly better multi-path characteristics than analog FM in typical RF environments, specifically at the 12 dB SINAD threshold. The transmission bit rate is 4800 bit/s

Motorola and a number of commercial radio companies are using Digital Mobile Radio. DMR is an open digital mobile radio standard defined in the European Telecommunications Standards Institute (ETSI) Standard TS 102 361 parts 1-4 and used in commercial products around the world. DMR, along with P25 phase II and NXDN are the main competitor technologies in achieving 6.25 kHz equivalent bandwidth using the proprietary AMBE+2 vocoder. DMR and P25 II both use two-slot TDMA in a 12.5 kHz channel, while NXDN uses discreet 6.25 kHz channels using frequency division.

Of all of the above, none of these digital formats will talk to each other. While some (Kenwood & Motorola) are using the AmBE+2 Vocoder, they still will not talk to each other as one is using 6.25 channels and the other is using a time division 12.5 channel space. Never mind that fact that one is TDMA and the other is FDMA.

*To Digital or not to Digital - That is the question
Continued ...*

If you built it, will they come?

Both Icom and Yeasu learned very quickly, that amateurs are fickle and in order to promote their system, they either gave away or have greatly reduced the cost for a digital repeater. My personal belief is that these companies believe that if a repeater system is available for use in any geographical area, then users will buy a radio to access that repeater. Well this worked fine in the beginning, but now there is more than one digital repeater in many geographical areas, and as such more than one format. So now what do you do, when some of fellow hams buy into one format and others buy into the format? Again you are stuck with the beta vs VHS scenario.

At Dayton – 2015, Jerry Wagner of Connect System in California was fending question about his planned release of the CS7000, which has yet to materialize. In May2014 Connect Systems owner and President Jerry Wanger discusses his company's plans to revolutionize ham radio with the launch of a new digital voice radio supporting both Digital Mobile Radio (DMR) and Digital Smart Technologies for Amateur Radio (D-STAR) in one box called the CS7000. The product is also supposed to have space for adding in other codecs for other digital formats as well. But, it still is not on the market and no firm date as to when it will be out.

At Friedrichshafen- 2015, which might be the world's largest International Amateur Radio Exhibition (just don't tell our American neighbours about its size) celebrated its 40th birthday in 2015. A collaboration of three groups brought top level executives from Icom, Yeasu and Kenwood together for the promotion of an idea for amateur radio – the "Initiative New Radio". Their premise is that two-way radios should not look like in the seventies, but should include modern technology and graphical user interfaces and



color touch screen to avoid multifunctional buttons. Essentially the New Radio has to have an open firm-ware enabling software developers to create new applications for innovative experiments in the Amateur Radio Service nowadays. Two way radios should not look like in the seventies, but should include modern technology and graphical user interfaces and colour touch screen to avoid multi-functional buttons. It should be about the size of an iPhone6 and should be running an Android operating system.

Check out the video of their interaction with the big three manufacturers. If you know German, you will be able to hear exactly what was said. Some of it is in German and some in English. The graphics will aid in understanding what is going on. This was a in collaboration with ÖVSV Österreichischer Versuchssenderverband, DARC Deutscher Amateur-Radio-Club e. V. and IARU Region 1.

This future radio would have the following possible mobile specifications:

- VHF/UHF SDR (138-173Mhz, 400-478MHz)
- 30-50 Watt HF (class AB)
- N-Antenna connector, integrated combiner
- FM, C4FM, D-Star, DMR, (SSB) (multi-mode)
- Full duplex, cross band repeater
- AMBE, CODEC2
- Colour Touch Screen
- GPS & Bluetooth (Audio+PTT, hands free, data transfer)
- variable IF bandwidth (1-2000kHz)
- Detachable front panel/ control head, wireless connection to main trx-body
- Android OS (root)
- Voice control / voice command recognition
- Database for memory channel selection based on GPS-position
- Volume- & Frequency knob on top
- Support APRS+ Map (OSM) + navigation to moving aim
- External accessories: Speaker-Microphone w. Bluetooth, SD-Memory card,
- Host/client USB enabling data transfer at full rate (500kBit/sec on 433MHz)
- DLNA / Miracast /Airplay or similar wireless to screen mirror
- Receiver 1-30MHz, 47-108MHz, 108-138MHz AM, 800-1300MHz
- Standard feature set like current models (CTCSS, 1750Hz tone, repeater shift)
- Shutdown timer if engine stopped (low voltage)
- Synchronizing memory and setup with smart hand held radio
- Smart New Radio handheld to act as wireless microphone

Nostalgia Radio CJNU 93.7

CJNU 93.7 FM is where you'll hear the very best easy listening music that has been popular over the past eight decade

Listen On-Line at ...

<http://www.cjnu.ca>

To Digital or not to Digital - That is the question Continued ...

As I sit with my various radio's (base stations, mobile radios and a handheld) listening to the local repeaters in analogue mode, I wonder if I should switch to digital mode or should I just stay here in analogue until something like the "Initiative New Radio" is actually produced. I already did bite the bullet when I purchased my last radio, an IC-9100, I did get the D-star add-in module for it at the time of purchase. And while all my rigs (except one lonely Radio Shack mobile) are all Icom, one would suspect that I would be going to D-star. Well to tell the truth. I am not about to give up 3 radios that are a little older and are not D-star enabled but work perfectly fine, just to go out and buy newer rigs with a format that may or may not become a defector standard.

Here in Winnipeg like all major centres, we have exhausted our VHF repeater pairs. There are quite simply no more to assign. And our UHF pairs are quickly being grabbed. We need to be able to use narrow band emissions like 6.25KHz. and to do this we need to be digital.

Who will win out in the battle for a standard? We may never know.

This is all quite an ask for amateur radio, which used to be at the forefront of technology, but has recently been taken to the back seat and has let technology come to us. I am going to wait and see how this all plays out. Personally I do not see D-star, Fusion or DMR going

Amateur Radios, Antennas, and more are available from your local Winnipeg ICOM Dealer...

Micro-HighTech Communications Ltd.

197 Leila Avenue, Winnipeg, MB
(204)-783-1885
Contact George Hill, VE4GDH

Visit their web site..

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

away. What I do see is radio all going to the way of the "Initiative New Radio". Having open source, with downloadable add-in Codec's so that you purchase from an app store to match the format of the repeater in your area. You may feel differently or have a passion for one format or another.

Just like I did with my old Betamax, until I could not buy any movies for it or my VHS until I could not rent movies, I'll wait. I no longer use my Blu-ray nor for that matter a CD player.

For now, at least for me, I'm going old school and waiting with my analogue radio. Who knows, I might even switch to 146.520MHz and make a call on AM to see if anyone is monitoring the call channel.

About the author;

Derek has been certified for amateur radio since in 1990. He has served and continues to serve on the executive on many local clubs. He was a Section Manager for VE4 for many years and is about to come to the end of his 3rd term as Mid-west Regional Director for Radio Amateurs of Canada. He operates mostly in the VHF/UHF area with the odd dabble into HF especially during Field Day and most recently on 2.3Ghz setting up HamWan in Winnipeg.

D-Star's "D-Tip" Of The Month By Mark VE4MAB

Due some programming conflicts the link commands for linking an unlinking FreeStar reflectors has changed again.

In the UR Field use the letter "O" to link and "T" to unlink (in the eight space).

For example - XRF012BO in the UR field links to the Friday Night Can Net and 7 spaces and the "T" in the eight space unlinks the reflector.

For Fans of Art Bell W6OBB ...

Late-Night talk radio host Art Bell, W6OBB, is back on the air with his new show "Midnight In The Desert" Monday to Friday 2300-0200 local time on the Dark Matter Radio Network.

Art frequently promotes Amateur Radio on his show

You can listen to Art's show "Midnight In The desert" on-line at ..

<http://darkmatterdigitalnetwork.com/> !

We are all about radio so try tuning in to

5085

and listen to the show on Short Wave!

Radio Boys See the Sights CONTEST TRAVELS OF VE4EA and K3KU By Art Boyars K3KU/VE4VTR, with Cary Rubenfeld VE4EA

Note: A shorter version of this article was published as "Highly Motivated Tourists" in the Potomac Valley Radio Club Newsletter for July 2015, available at www.pvrc.org, on the Reference tab. PVRC is one of the major contest clubs; Art has been a member since 1966.

Part 1 – Art Gets to Winnipeg... Continued

Before Canada Day I had asked casually about getting a Canadian license, and Jack told me about the Industry Canada web site that provides practice exams. I went over those exams again and again. Cary arranged with Adam VE4SN, the volunteer licensing exam administrator, to come over the morning after Canada Day so I could write the exam. I passed Basic and Advanced that morning. As the culmination of my two trips to Winnipeg, I applied for and received the call VE4VTR.

Part 2 – Cary goes to Maryland

In Part 1 Art, having met Cary in HF contests, realized a dream of almost 40 years, travelling to Winnipeg to operate ARRL Sweepstakes CW with him and Kelly VE4XT in November 2013. Art returned for the RAC Canada Day Contest in 2014. On that trip he passed the Canadian licensing exams for Basic and Advanced, receiving the call VE4VTR.

Ever since my first visit to Winnipeg in 2013 I had been urging Cary to visit me to enjoy some cultural activities of mutual interest and to experience ham radio contesting from the East Coast. But he was very busy with business travel and wanted to reserve his little free time for family.

In early 2015 I noticed that one of our big cultural activities was in early March on the Wednesday evening and Thursday immediately preceding the SSB portion of the big ARRL DX Contest that runs Friday evening through Sunday evening -- for 48 hours the rest of the world works just Canada and USA. What's more, on the Monday right after the contest PVRC would have its Central Chapter meeting in Maryland (I'm Chapter Chairman for MD). A perfect confluence of events!

Cary had done DX contests at VE6SV's fine Multi-Operator Single-Transmitter (M S) station. He was interested in seeing how a heavyweight Multi-Operator Multi-Transmitter (M M) contest station worked. I had been a part-time operator in CW DX contests (I much prefer CW) at the fantastic M-M station of Frank W3LPL. (Look him up on an on-line map with aerial view. You can see several of the towers and some

of the beam antennas.) Maybe Cary and I could help out at W3LPL Saturday night and Sunday. Cary has also -- besides his involvement with WARC and their Field Day -- been involved in the resurgence of VE4 contest activity and the formation of RadioSport Manitoba. Perhaps I (and PVRC) could get some ideas from him on recruiting, training, and motivating contest operators.

The enticement was enough. Cary set up to fly in on Wednesday, stay through the Monday meeting, and fly out Tuesday.

As Cary's trip approached, W3LPL let me know that he had a full crew of operators and, while visitors would be welcome, we rightly could not expect full-timers to give up operating time for part-timers. We needed a Plan B. I checked with some of the other PVRC members who had hosted M-M operations, but only one was planned for this contest and an unusual March snowstorm on that Thursday made that station unreachable.

Another possibility was W3DQ's flexible drop-in-when-you-can Multi-Single. The rarity of the District of Columbia multiplier in this contest might make for some entertaining run rates to compensate for the absence of the M M experience. Cary and I decided to see how we felt at the end of cultural activities Saturday evening, and to plan on the fly.

Come Saturday night, we formed a plan: play around Saturday night at K3KU until we felt like sleeping; head for W3LPL early Sunday morning; stay there as long as we were helpful or as long as Cary was learning; then go to W3DQ if he was still open for business. We also set a possible dinner date for Sunday evening with my wife at a favorite restaurant that she and I wanted Cary to experience.

Saturday night -- 8:15PM (EST) we fire up my 20-year-old Kenwood TS-850S and the old 486 PC with CT-DOS logging software. Cary is surprised that you can actually make QSOs with such trailing-edge technology. With 100W and my 200-ft dipole we work a few Big Gun contest stations in the Caribbean and South America on 20 meters and 15 meters, and some Japan on 15. Thirty-four QSOs by 10PM.

We shift to 40 meters, where the dipole is not so big a disadvantage. Ho hum. Same loud South Americans and Caribbeans. Then we start calling the loud Europeans. I am thinking about how much more we could be working on CW. Cary, with his Manitoba outlook, is going bananas. We are pretty easily working stuff he can't even hear at home with his inverted vee.

Radio Boys See the Sights continued...

By 11PM we have 26 QSOs on 40 meters, including 7Z1SJ in Saudi Arabia. Then, on to 75 meters where Cary freaks out again – 21 more QSOs in about 50 minutes. We finish by making three QSOs on 160 meters: two US Virgin Islanders and Curacao. Cary does not realize that on the low bands we've worked the loud super-stations, and the lesser stations will not hear us.

(With my little signal some of the DX had trouble copying our report: 5 9 Mike Delta. "Was that Mike Alpha?" So we tried 5 9 M-e-x-i-c-o Denmark. "Was that New Mexico?" Oops, that's not so good, either. I realized that the best solution for small signals was to stick to CW.)

Saturday/Sunday way after midnight -- set the household clocks ahead for Daylight Savings Time. Set the alarm clock for a few hours of sleep. Sunday morning -- awake and up and off on the drive through the sunny Maryland countryside to W3LPL. Cary remarks on the scenic (snow-covered) hills. Manitoba has more snow, but is maximally flat and the roads are straight.

We arrive at W3LPL around 9AM (EDT). Cary is appropriately awed by all the towers and beams and wires – and he can't even see the arrays of verticals. We go into the shack. On the left side of the large room are the three low-band stations, each with two transceivers and computers and a KW amplifier. They are alive but inactive, the operators asleep in the adjoining dormitory room or wandering about, eating whatever meal their body thinks is timely. On our right, the three high-band stations are running Europe. On 10 meters, KE3X and K3AJ. On 15, HB9OCR (Marco) and N3RR. And on 20, K4ZA and W3LPL himself, temping for K3RA. A collection of PVRC local all-stars, plus Marco. I don't know him, but Cary knows of him from some DXpeditions.

Some quick introductions, and we gravitate to the 15 meter station. It's placed between the other two, it has a little more room ... and Marco is running people in about five languages! (Funny; none of the DX has trouble copying "5 9 Mike Delta" from W3LPL.)

For a little while we listen to Marco and N3RR operate. Cary sees how the run station and the search station work together, and gets a run-down of the interlocks and all the antenna switching. Then we rig up a Y-connector for the headphones, and Cary listens as Marco runs

Over the next few hours Cary gets a good exposure to top-level M-M contesting. He makes a few QSOs from a search position. Frank describes some more of the antennas. (K3KU: Too bad we could not get there at



HB9OCR running on 15 meters; VE4EA listening in. Right background: W3LPL at the 20M search position; K4ZA hidden at the 20M run position. Left background: one of the monitors at the inactive 40M station.

night, when Cary could have heard the amazing directivity of the 8 circle vertical arrays on 160M and 80M.) Frank fixes some hardware problem on the 10 meter station. Multiplier contacts get moved from band to band. Europe keeps filling the log.

Around Noon we head off for W3DQ, arriving there about an hour later. Eric's small city lot in a tree-filled neighborhood is not as radio-impressive as W3LPL. A small roof-mounted tri-bander and inverted L's hidden in the trees do not give you band-opening signal dominance, but they do let you make some QSOs, and DC is a lot rarer than MD -- perhaps even as rare as MB. Eric and Cary are so congenial that it's like cousins at a family celebration. (Eric had loaned the antenna analyzer that Cary asked me to bring on my 2013 SS CW trip.) In the small shack, one radio, a 500W amplifier, an antenna tuner, and various station gadgets.

Eric's regular Multi-Single guests did not make it for this one, so he had been doing a part-time Single-Op. Cary and Eric continue to chat while I sit in at the operating position and try to get something going on 20M or 15M. Ugh! Not the big pileups we hoped for. It seems that NN3RP and 4U1WB (AJ3M, at the World Bank club station) had both been active from DC. All the big-gun Europeans already have the multiplier, and we are not loud enough to attract the second tier.

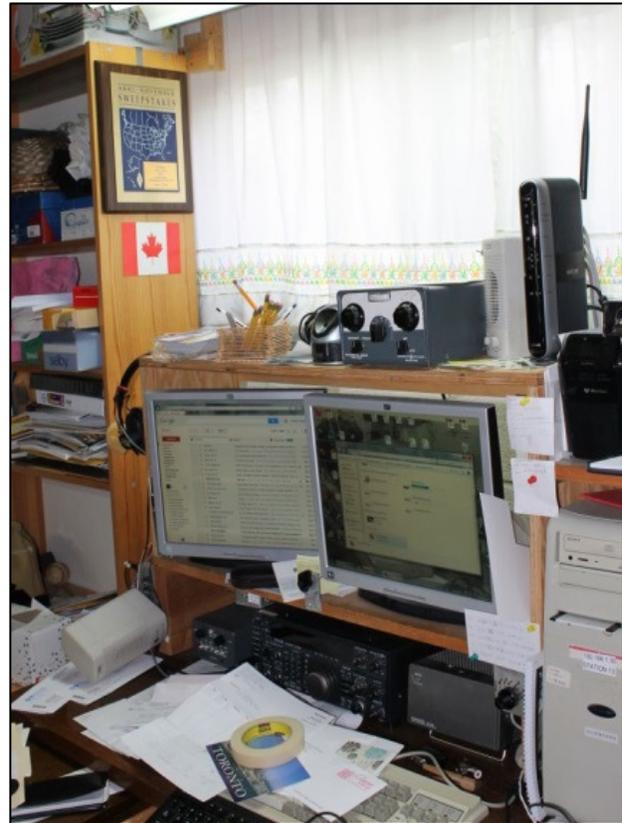
Radio Boys See the Sights continued...

I soon cede the chair to Cary; Eric and I chat and kibbitz while he operates. He's doing better than I was (this is SSB, and I've often said that Cary is better on phone than I am on CW). Eric and I chuckle and shout corrections when Cary, using his third station, third non-native call and second non-native QTH of the contest, says "5 9 Mike Delta" or ID's as "W 3 Delta Charlie".

After a while the run rate gets even worse, and Eric has some family stuff to do. Cary and I opt for the dinner date with my wife. And a fine meal it was.

Monday evening – the PVRC meeting at a unique restaurant near my home (the privilege of being Chairman). As usual, about 15 hams gather for dinner and chat at 6PM. We always say "Official business, if any, will be at 7:30 PM"; seldom is there any. Cary has asked for five minutes to speak. You bet! You'll be the program.

Cary talks about his hosting me for SS CW 2013. From a shoulder bag he's been carrying around he pulls a plaque. He announces that since I was the impetus behind the operation, and I was the main operator, the plaque should go to me. What a kindness. You bet I'm going to Winnipeg for RAC Canada Day 2015! And I did, but that's a story for another time.



The plaque displayed at K3KU in Maryland



ARRL November Sweepstakes
VE4EA (+K3KU, VE4XT)
2013 Canada Winner
Multioperator Low Power CW

Manitoba Repeater Society

The Manitoba Repeater Society operates and maintains a linked repeater system across southern Manitoba, including Winnipeg.

If you are a user of any of these repeaters, we urge you to support the group by becoming a member.

VE4MAN - Starbuck, VE4CDN - Morris,
VE4PLP - Portage, VE4MRS - Bruxelles,
VE4GIM - Gimli, VE4MIL - Milner Ridge
VE4EMB - Hadashville, VE4FAL - Falcon Lake,
VE4WPG - Winnipeg, VE4VJ - Winnipeg, VE4WRS
- Autopatch & IRLP link Winnipeg

Links to repeaters in Ontario, Brandon, Selkirk and soon to be the Dauphin & area.

info@mb-repeater-society.ca

<http://www.mb-repeater-society.ca/>

<http://www.facebook.com/ManitobaRepeaterSociety>

Contest Calendar

Extracted From

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

For September ...

ARS Spartan Sprint 0100Z-0300Z, Sep 8
 Phone Fray 0230Z-0300Z, Sep 9
 CWops Mini-CWT Test 1300Z-1400Z, Sep 9
 and 1900Z-2000Z, Sep 9
 and 0300Z-0400Z, Sep 10
 RSGB 80m Club Sprint, SSB 1900Z-2000Z, Sep 9
 NCCC RTTY Sprint Ladder 0145Z-0215Z, Sep 11
 NCCC Sprint 0230Z-0300Z, Sep 11
 Kulikovo Polye Contest 0000Z-2359Z, Sep 12
 FOC QSO Party 0000Z-2359Z, Sep 12
 WAE DX Contest, SSB 0000Z, Sep 12
 to 2359Z, Sep 13
 SARL Field Day Contest 1000Z, Sep 12
 to 1000Z, Sep 13
 SKCC Weekend Sprintathon 1200Z, Sep 12
 to 2400Z, Sep 13
 Arkansas QSO Party 1400Z, Sep 12 to 0200Z, Sep 13
 Ohio State Parks on the Air 1600Z-2400Z, Sep 12
 ARRL September VHF Contest 1800Z, Sep 12
 to 0300Z, Sep 14
 North American Sprint, CW 0000Z-0400Z, Sep 13
 Swiss HTC QRP Sprint 1300Z-1900Z, Sep 13
 Phone Fray 0230Z-0300Z, Sep 16
 CWops Mini-CWT Test 1300Z-1400Z, Sep 16
 and 1900Z-2000Z, Sep 16
 and 0300Z-0400Z, Sep 17
 NAQCC CW Sprint 0030Z-0230Z, Sep 17
 NCCC RTTY Sprint Ladder 0145Z-0215Z, Sep 18
 NCCC Sprint 0230Z-0300Z, Sep 18
 AGB NEMIGA Contest 2100Z-2400Z, Sep 18
 ARRL 10 GHz and Up Contest 0600 local, Sep 19
 to 2400 local, Sep 20
 SARL VHF/UHF Analogue/Digital Contest
 1000Z, Sep 19 to 1000Z, Sep 20
 Scandinavian Activity Contest, CW 1200Z, Sep 19
 to 1200Z, Sep 20
 SRT HF Contest SSB 1300Z, Sep 19
 to 1300Z, Sep 20
 South Carolina QSO Party 1400Z, Sep 19
 to 0300Z, Sep 20
 Washington State Salmon Run 1600Z, Sep 19
 to 0700Z, Sep 20
 and 1600Z-2400Z, Sep 20
 New Jersey QSO Party 1600Z, Sep 19 to 0359Z, Sep 20
 and 1400Z-2000Z, Sep 20
 QRP Afield 1600Z-2200Z, Sep 19
 Feld Hell Sprint 1800Z-1959Z, Sep 19
 North American Sprint, RTTY 0000Z-0400Z, Sep 20
 Classic Exchange, CW 1300Z, Sep 20 to 0800Z, Sep 21
 and 1300Z, Sep 22 to 0800Z, Sep 23
 BARTG Sprint 75 1700Z-2100Z, Sep 20
 Run for the Bacon QRP Contest 0100Z-0300Z, Sep 21

144 MHz Fall Sprint 1900 local - 2300 local, Sep 21
 SKCC Sprint 0000Z-0200Z, Sep 23
 Pirate QSO Party 0030Z-0330Z, Sep 23
 Phone Fray 0230Z-0300Z, Sep 23
 CWops Mini-CWT Test 1300Z-1400Z, Sep 23
 and 1900Z-2000Z, Sep 23
 and 0300Z-0400Z, Sep 24
 RSGB 80m Club Sprint, CW 1900Z-2000Z, Sep 24
 NCCC RTTY Sprint Ladder 0145Z-0215Z, Sep 25
 NCCC Sprint 0230Z-0300Z, Sep 25
 CQ Worldwide DX Contest, RTTY 0000Z, Sep 26
 to 2400Z, Sep 27
 Maine QSO Party 1200Z, Sep 26 to 1200Z, Sep 27
 Texas QSO Party 1400Z, Sep 26 to 0200Z, Sep 27
 and 1400Z-2000Z, Sep 27
 AGCW VHF/UHF Contest 1400Z-1700Z, Sep 26 (144)
 and 1700Z-1800Z, Sep 26 (432)
 UBA ON Contest, 6m 0700Z-1000Z, Sep 27
 Classic Exchange, Phone 1300Z, Sep 27
 to 0800Z, Sep 28
 and 1300Z, Sep 29
 to 0800Z, Sep 30
 Peanut Power QRP Sprint 2000Z-2200Z, Sep 27
 222 MHz Fall Sprint 1900 local - 2300 local, Sep 29
 Phone Fray 0230Z-0300Z, Sep 30
 CWops Mini-CWT Test 1300Z-1400Z, Sep 30
 and 1900Z-2000Z, Sep 30
 and 0300Z-0400Z, Oct 1
 UKEICC 80m Contest 2000Z-2100Z, Sep 30

Into October ...

NRAU 10m Activity Contest 1700Z-1800Z, Oct 1 (CW)
 and 1800Z-1900Z, Oct 1 (SSB)
 and 1900Z-2000Z, Oct 1 (FM)
 and 2000Z-2100Z, Oct 1 (Dig)
 SARL 80m QSO Party 1700Z-2000Z, Oct 1
 NCCC Sprint 0230Z-0300Z, Oct 2
 YLRL DX/NA YL Anniversary Contest 1400Z, Oct 2
 to 0200Z, Oct 4
 TARA PSK Rumble Contest 0000Z-2400Z, Oct 3
 15-Meter SSTV Dash Contest 0000Z, Oct 3
 to 2359Z, Oct 4
 German Telegraphy Contest 0700Z-1000Z, Oct 3
 Oceania DX Contest, Phone 0800Z, Oct 3
 to 0800Z, Oct 4
 TRC DX Contest 1200Z, Oct 3 to 1200Z, Oct 4
 Russian WW Digital Contest 1200Z, Oct 3
 to 1159Z, Oct 4
 International HELL-Contest 1600Z-1800Z, Oct 3 (80m)
 and 0900Z-1100Z, Oct 4 (40m)
 California QSO Party 1600Z, Oct 3 to 2200Z, Oct 4
 4 State 4x4 QRP Sprint 1700Z-2100Z, Oct 3
 FISTS Fall Slow Speed Sprint 1700Z-2100Z, Oct 3
 WAB HF Phone 1900Z, Oct 3 to 1900Z, Oct 4
 UBA ON Contest, SSB 0600Z-1000Z, Oct 4
 RSGB 21/28 MHz Contest 0700Z-1900Z, Oct 4
 ARS Spartan Sprint 0100Z-0300Z, Oct 6

Good Luck In The Contest

WARC Fall Flea Market

By Dick VE4HK

Mark your calendars, tablets, TRS80 computers, or other recording devices for Sunday, October 18, 2015. That is the date for the social highlight of the fall season. I mean, of course, the Winnipeg Amateur Radio Club Fall Flea Market.

The Flea Market will be at our favourite QTH, namely

**Heritage Victoria Community Centre
950 Sturgeon Road**

Do you have a surfeit of amateur radio equipment cluttering up your house? Has your spouse threatened to exile you to the garden shed for the winter, if you don't downsize? Do you want to pick up a few bucks, to buy new toys? If you answered "YES, YES, YES" to any of these questions, you should rent a table at the Flea Market.

Ruth VE4XYL is in charge of table sales. She can be reached at 204-837-6915 or ve4xyl@mts.net.

Tables are only \$5.00 each for WARC members, and \$10.00 for everyone else.

*Doors open for coffee, treats and socializing at 9:30 am
Table setup is from 9:45 until 10:30 am
Buying begins at 10:30 am and runs until noon
Prize draws begin at 11:30 am*

The Flea Market is the best opportunity to catch up with all those friends that we haven't seen, since the Spring Flea Market. Bring a pocket full of loonies and toonies to pay for all those things you simply cannot live without.

Admission is only \$5.00 per person. Please have a \$5.00 bill, to speed up the entry process.

We need a kind hearted soul to donate 48 muffins for the kitchen. If you are willing to do some baking, or if you know a friendly bakery etc. which would be willing to donate, please let me know ASAP

Questions?

Contact Dick VE4HK 204-256-3143 or ve4hk@rac.ca, or on VE4WPG, or coffee at McDonalds on Saturday morning, or coffee at Robins on Waverley weekdays at 11:00 am, or WARC meetings, or (?????)

Dick Maguire VE4HK
Flea Market Coordinator

VHF Nets

MRS Nets - 147.390 Mhz +

Sundays & Thursdays at 9:00 pm

This net covers Winnipeg and the MRS linked repeater system, and includes various announcements on amateur radio activities, plus Dick's "Swap and Shop"

The Morning Net 147.390 Mhz+

Weekdays at 9:00 am

This net covers Winnipeg and hams of all ages are welcome to join in this net which is always a lot of fun!

Friendly Manitoba IRLP Net

Net - 145.450 Mhz - (Node # 1066)

On - The Great Lakes Reflector #9611

Wednesdays at 7:00 pm

This net connects you with the world using the internet as the backbone!

D-Star Nets on the VE4WDR System using

UHF 444.575+ DV Port B and/or

VHF 145.490- DV Port C

TransCanada D-Star Net - Fridays at 8:00 pm

On "Free Star" Reflector 21 (XRF021BO)

HamNation D-Star Net Wednesday at 9:15pm

On "DPlus" Reflector 14 (REF014CL)

Ozark Mtn. D-Star Net - Sundays at 8:00 pm

On "DPlus" Reflector 1 (REF001CL)

More nets <http://www.dstarinfo.com/nets.aspx>

HF Nets

MB Evening Phone Net - 3747 Khz

Daily at 7:00 PM CT

Prairie Traffic Net (CW) 3660 Khz

Daily at 01:30 UTC

Aurora # 2 Net 7055 Khz

Daily at 02:30 UTC

MB Wx Net 3743 Khz

Daily at 8:30 AMC

ARES Manitoba Monthly Readiness Net

4TH Sunday of each month

4:00 PM - 4:10 PM -7,075 Khz

4:10 PM - 4:20PM -3,675 Khz LSB 5,375 USB

Manitoba IRLP Nodes - Use reflector 9003

Winnipeg VE4WSC (Node 1809) Pinawa

VE4PIN (Node 1981), Flin Flon VE5ROD

(Node 1750), DARC Swan River VE4SRR

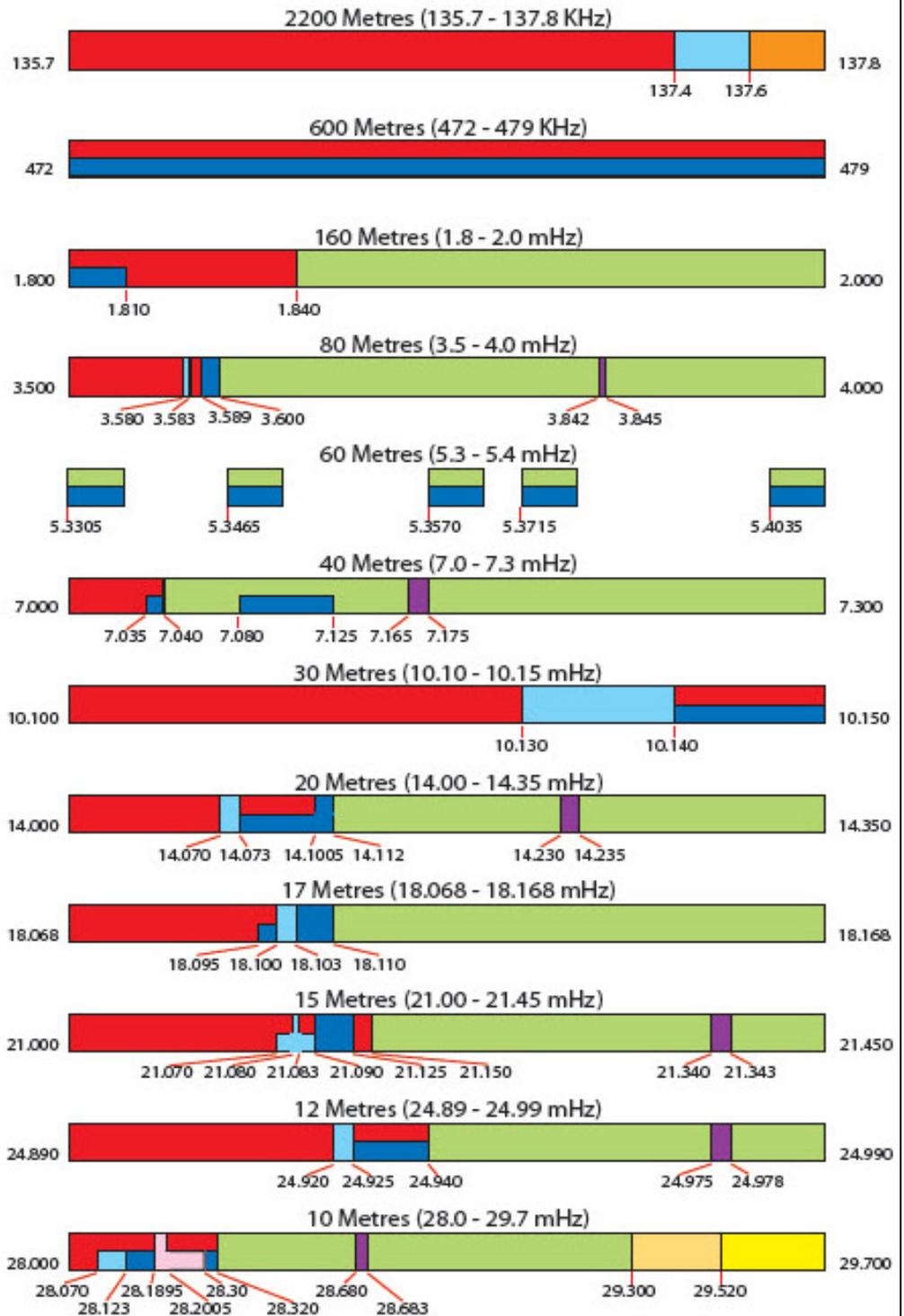
(Node 1700)



Canadian 0 - 30mHz Band Plan

**Effective Date:
January 1, 2015**

1. This is a simplified version of the official RAC Band Plan. Not all permissible modes/activities are represented.
2. LSB is used on 160, 80 and 40M. USB is used on all other bands that permit SSB, including 60M.
3. Narrow Digital modes are up to 500 Hz bandwidth. Digital includes all digital modes.
4. Maximum bandwidth permitted on 2200M is 100 Hz. Maximum power is 1 Watt EIRP.
5. Maximum power on 600M band is 5 Watts EIRP, with recommended maximum bandwidth of 1 KHz. Details are still being developed.
6. Refer to the IC and RAC websites for full details before operating on the new 60M channels.
7. Remember not to allow your signal to spill over into adjoining band segments when operating close to the edges. During major weekend contests, activity in certain modes can spill over into other segments.
8. This graphic is a living document and will be reviewed and updated periodically to reflect changes in the band plans and operating habits.



Key		
■	■	■
CW	FM	SSTV
■	■	■
CW QRSS	Beacons	Digital
■	■	■
Phone	Satellite	Narrow Digital

www.rac.ca

Winnipeg Amateur Radio Club



Attn: Membership
Winnipeg Amateur Radio Club
C/O VE4WSC
598 St. Mary's Road
Winnipeg MB R2M 3L5

MEMBERSHIP APPLICATION / RENEWAL

(Please note: membership year is 1 September to 31 August).

<u>Call Sign</u>	<u>Surname</u>	<u>Preferred First Name</u>
<u>Mailing Address</u>		
<u>City</u>	<u>Prov.</u>	<u>Postal Code</u>
<u>Home Phone</u>	<u>Work Phone</u>	
<u>E-mail Address</u>		
Club use only: Date: _____ \$ _____ Cheque / Cash / Money Order Rcpt. _____ Card Issued: _____ Year _____		

Renewal
 New
 New Ham (FREE if newly licensed in current membership year)

Class of Member: (please circle one only)
 Regular \$20 / Associate \$20.00 / Club \$20.00

Certificate Class: (please circle one only)
 Advanced Basic Honours Basic

HF Endorsement (please circle)
 Yes / No

Our newsletter "The Newscaster" is distributed by e-mail

- My interests:**
- | | | | | |
|------------------------------------|------------------------------------|----------------------------------|----------------------------------|--------------------------------------|
| <input type="checkbox"/> VHF/UHF | <input type="checkbox"/> FM | <input type="checkbox"/> SSB | <input type="checkbox"/> CW | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> HF | <input type="checkbox"/> AM | <input type="checkbox"/> SSB | <input type="checkbox"/> CW | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> APRS | <input type="checkbox"/> Digital | <input type="checkbox"/> Packet | <input type="checkbox"/> Amtor | <input type="checkbox"/> Rtty |
| <input type="checkbox"/> SSTV/FSTV | <input type="checkbox"/> Satellite | <input type="checkbox"/> SHF/EHF | <input type="checkbox"/> Antenna | <input type="checkbox"/> QRP |

- Other Clubs:**
- | | | | | |
|------------------------------|-------------------------------|------------------------------|------------------------------|---------------------------------------|
| <input type="checkbox"/> MRS | <input type="checkbox"/> ARES | <input type="checkbox"/> WSC | <input type="checkbox"/> RAC | <input type="checkbox"/> Other: _____ |
|------------------------------|-------------------------------|------------------------------|------------------------------|---------------------------------------|

Optional Information:

Current Occupation: _____

If Retired: Former Occupation: _____

Skills: _____