



The **NEWSCASTER**

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

May 2018

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VE4BB

Magnetic Resonance Imaging

By David VE4DCO

Date: Monday, May 14, 2018

Time: 7:30 PM

Place: Dakota Collegiate - Theatre *See You There*
661 Dakota Street (At Beliveau Road)

Other Important Dates:

News caster: Deadline May 30, 2018

WARC: Monthly Meeting Dates
June 11, 2018
September 10, 2018
October 15, 2018 AGM

ARES: Tuesday, May 15, 2018
Sir Wm Stephenson Library
765 Keewatin Street - VE4WVO
CANWARN Net Controller Briefing

Other: Marathon Briefing
Tuesday, June 12, 2018 ????

Manitoba Marathon
Sunday, June 17, 2018

WARC Executive for 2017-2018...

| | | |
|--------------------------------|------------------|-----------------------|
| President | Peter Toth | ve4th@gmail.com |
| Vice-Pres. | John Romanec | ve4vjr@gmail.com |
| Treasurer | David Latour | ve4dla@gmail.com |
| Secretary | Gerry Sherman | ve4gks@outlook.com |
| Membership | Jessy Blanchette | ve4jbb@gmail.com |
| Programs | Roberto Urrea | va4.rul@gmail.com |
| Education | Roberto Urrea | va4.rul@gmail.com |
| Past President | David Latour | ve4dla@gmail.com |
| Public Information Officer.... | Kurt Sargent | kurtsargent@gmail.com |

Fallen from the President's Desk...

Spring is here?

I've been told that spring is here, well, lets hope so, but based on the current temperatures it sure is taking it's sweet time! That being said, I would like to encourage all hams to use the wonderful network of friends and fellow hams, and enlist their aid when working on your antennas or other outdoor activity that may require you to climb a ladder or some other structure. Safety is always a major concern, and sometimes just having a fellow ham at the bottom of that tower or ladder can make all the difference. So don't go it alone, you don't have to. Many fellow hams will eagerly jump in and help when asked. As the old saying goes, many hands make small the work.

Elections are coming up with WARC, and I encourage all members to consider stepping up and putting your name in as a one of the executive. This club can not operate without the hard work of volunteers, and we all know how much good work this club does, both for Ham Radio and for the community at large. So if you've been a board member in the past, or if you've never served, consider stepping up and tossing you name in the bucket.

Finally I want to touch on the upcoming Field Day activities. We plan on having it at Camp Amisk again this year, and we are looking now for a few more volunteers than last year, in order to make it a full 24hr operation. Camping is free, and we will feed you too! Trust me, the food is very good, and the fellowship is even better! The plan is to have 2 stations operating, with at least one going 24hrs. This year we will be dedicating one station to CW and digital modes. With the primary station operating SSB. So if you would like to join in with the fun, and it truly is fun, let your name stand and join in. Field Day 2018 will be on the air from 1800 UTC Saturday June 23rd till 2059 UTC Sunday June 24th. All the gear and antennas has been secured, testing will be conducted prior to the event to ensure no glitches. So all you need to do is show up to help set up 2 antennas, and then have fun!

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

²
A short word about other stations willing to operate in the same location. Although we would love to accommodate everyone and every situation. The fact is that logistically and physically this has proven not to work out. So if you wish to operate a station, QRP or otherwise, by all means we encourage that. However, it just can't be done at this location due to the interference and logistical issues that have proven to be difficult to manage in the past.

73
Peter Toth
WARC President

WARC Meeting Minutes *April 9, 2018* *Taken By David VE4DLA*

Present: David, John, Jessy, Roberto, Peter and 28 Members - Convened 1937h

Treasurer-
Income for March \$107.05 Expenses \$133.47 Available \$7190.48
Budget adequate to meet current obligations and proposed venue change

Membership
85 paid-up

Education
BSC15 complete with 15 grads, 2 to rewrite and 2 dropouts discussion re 3rd term course for summer, not likely to find instructors, debated usefulness of COAX Pub instructor notes, consensus that our notes are better. Peter offered to produced canned lecture notes/presentations for new instructors. CW course to be offered again January 2019, min 6 students, max 8

DX reports
nil contacts outside of North America, Peter suggests a solar storm is likely for later this week based on NASA data

50/50 netted \$19.00 for Don Menzies VE4DFM

Flea Market
all tables sold out, table map in John's hands, a few early members to help set up tables would be nice

ARES
Jeff VE4MBQ absent, but informs that at least 5 volunteers needed for Marathon effort in June, and 3 to be standby. See signup info on WARC website This will be our 40th anniversary in support of Manitoba Marathon.

New Business-
New venue discussion; Dakota Collegiate contract puts us behind all other users of theatre, and liable to be bumped at short notice as happens 2-3 times each year. We pay \$26.50 per for this. Parking can be a problem if other events on. No WIFI possible. Tethered hotspot

not reliable in the theatre or cafeteria. Peter proposes a move to Fort Garry Legion on Osbourne S of bus barns. \$40 per, no bumping, WIFI, large room, catering on site, adequate parking behind and across street. Another possibility is the Nairn Legion in EK with the same amenities. This has the side benefit of supporting the Legions. John proposed Garden City Community Ctr, which has a new arena with meeting rooms. \$90 per, and WIFI, elevator access, lots of parking, a concession IF other events on, no bumping. To be published to the general membership for a vote this month.

Worked All Winnipeg Award

Dick awarded a Worked All Winnipeg certificate to Derek Vermette VE4AFK. Thanks to all hams who participated, especially Ron VE4PL



MRS
Will have a junque table at Flea Market
MRS AGM 19 April to consider new by-laws and novel linked network plans

Home Brew Night
Attracted no comers, to be rescheduled for the Fall. Open to interesting non-radio projects too.

Adjourned 2026h

The Winnipeg Seniors Citizens Radio Club (VE4WSC) Now open Saturdays !!

The club is also open Monday – Friday from 10:00am – 2:00pm (could be earlier; could be later)

Members and Non-members (visitors & guests) are invited to come down and use the facilities and the radios. Have a coffee and talk with your fellow hams. There is free Wi-Fi, a television (local digital), North America telephone calling, a work shop with some tools and test equipment and of course HF, VHF & UHF radios waiting for an operator.

Anyone who wants to start a group project is encouraged to contact the WSC executive and schedule the event so that we are not double booking the facilities.

The current calendar of events is on the VE4WSC web site -

<http://www.ve4wsc.ampr.org/>

Free parking as long as you are either behind the build or along the fence, as long as you directly behind and within the edges of the building you are ok to park. Sign in upstairs and record your plate number. Parking is also available on the street (check signs for hours).

³
Winnipeg ARES
Jeff Dovyak VE4MBQ
ve4mbq@rac.ca

Ashley Keep, Public Alerting Coordinator Manitoba EMO gave us an in-depth presentation on Public Alerting and Smartphones at our April General Meeting.

Welcome to new Winnipeg ARES members Glenn Seifert VE4GS and John Warry VE4JON.

Our May meeting will be the VE4WWO CANWARN Net Controller Briefing for 2018, TUE 15 MAY 1900h Sir Wm Stephenson Library 765 Keewatin Street.

Manitoba Marathon
Jeff Dovyak VE4MBQ
ve4mbq@rac.ca

The 2018 Manitoba Marathon will be SUN 17 JUNE – this will be the 40th Anniversary!

We still need at least ten (10) volunteer operators for the Manitoba Marathon SUN 17 JUN, on-line registration thru WARC web-site:

http://winnipegarc.org/marathon_volunteer_form.html

As of 22 APR we have the following volunteer operators:

VA4s: TW, CAT, DON, RAD
VE4s: EH, GS, GZ, HK, HQ, NQ, PH, QV, SE, UK, VZ, WX, ACX, AJO, ANF, BAW, BHW, BIT, BOY, CDM, CEL, CEM, DAE, DBV, DJS, DWG, EAR, ESX, GAG, GCV, GIS, GKS, GLS, GWN, HAY, HAZ, JAL, JDH, JBL, JFK, JNF, KAZ, KIZ, KON, LIT, LYN, MAB, MBQ, MHZ, MMD, MMW, MWH, NCH, NJR, PEH, RIC, SBS, SIG, STS, SYM, TRO, TSY, TTH, WDZ, XYL, YYL
VE6LOT.

Amateur Radios, Antennas, and more ...

Winnipeg ICOM Dealer...

Micro-HighTech Communications Ltd.

2223 Henderson Hwy, East St. Paul, MB
(Just south of perimeter hwy)

Ph. (204)-783-1885 Fax (204) 779-7522
Contact George Hill, VE4GDH

Visit their web site..

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

Magnetic Loop Antenna Workshop
By Ken VE4K GK

April 10, 2018 a group of Hams met at the Seniors Club for a Magnetic Loop antenna workshop and of course coffee.



The build was lead by VE4PL - Ron Place with the following hams attending. VE4DTF - Dave, VA4EEE - John, VE4JON - John, VE4K GK - Ken, VE4RLF - Roger, VE4 PEH - Pat, VE4PH - Pete, VE4RI - Rand, VA4RWT - Gary, VE4SS - Lawrence.

Ron lead the way with the build and technical details of the Magnetic Loop Antenna. The antenna is about four feet in diameter and made with salvaged material including a main conductor loop which is about one-inch diameter bare Helix cable and a smaller conductor loop made with No. 8 AWG bare copper wire.



A variable capacitor was connected into the circuit of the large loop, to tune the frequency in use. Connection to the HF radio was made with RG 58 coax cable connected directly to the smaller loop on the antenna. The smaller loop is 1/5 the size of the larger loop and is not electrically connected between the antenna conductors.

Continued....



204.899.3350

1798 St Matthews Ave
Winnipeg, MB R3H 0A5

**Discount for
"WARC"
members**

They can provide 15% discount on QSL cards.

For example, the current price for an order of 400 QSL cards size: 5" x 3.5", double side, full-colour on 100lb gloss cover is \$81.99.

With your 15% discount, the total would be \$69.69 before tax (please note that prices are subject to change due to paper cost etc.). The discount is on any size and any qty of QSL card.

Be sure to present your WARC membership to receive the discount!

The antenna was solidly built and tuned less than 2:1 SWR across the bands up to 20 meters, 40 meters was not tuned, but is possible on this size loop. The antenna can be installed vertically which is directional or horizontally with the signal going straight up and down. The antenna works best closer to the ground and does not require radials.



VA4EEE – John brought in a MFJ manufactured Magnetic Loop antenna for comparison. His antenna worked very well and is tunable via a remote control panel between the antenna and radio carrying both control and radio signal.

Many thanks to VE4PL - Ron conducting the workshop, VA4EEE – John for bring in his MFJ Mag Loop and all the hams that attended.

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



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>

MRS Memberships Expired December 31

You Can Renew Today On-Line

Manitoba Repeater Society Executives For 2018-19

| | | |
|-----------------|--------|-----------------|
| President | VE4HAZ | Harm Hazeu |
| Vice President | VE4VR | William Franzen |
| Treasurer | VE4DRK | Dan Keizer |
| Membership | VE4PH | Peter Haertel |
| Secretary | VE4HK | Dick Maguire |
| Technical Chair | VE4EAR | Ed Richardson |
| At Large | VE4SIG | Jim Sutton |
| At Large | VE4HAY | Derek Hay |
| At Large | VE4DJS | Dave Stimpson |

Contact Dick VE4HK ve4hk@rac.ca with any comments or concerns

The minutes for the April 19 Manitoba Repeater Society Annual General Meeting are available on the Manitoba Repeater Society website

mb-repeater-society.ca

Click on MRS Documents > Documents > Minutes

Contest Calendar

Extracted From

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

May 2018

| | |
|---|---|
| NCCC RTTY Sprint | 0145Z-0215Z, May 11 |
| NCCC Sprint | 0230Z-0300Z, May 11 |
| SKCC Weekend Sprintathon | 1200Z, May 12 to 2400Z, May 13 |
| VOLTA WW RTTY Contest | 1200Z, May 12 to 1200Z, May 13 |
| CQ-M International DX Contest | 1200Z, May 12 to 1159Z, May 13 |
| Arkansas QSO Party | 1400Z, May 12 to 0200Z, May 13 |
| FISTS Spring Unlimited Sprint | 1700Z-2100Z, May 12 |
| 50 MHz Spring Sprint | 2300Z, May 12 to 0300Z, May 13 |
| WAB 7 MHz Phone | 1000Z-1400Z, May 13 |
| 4 States QRP Group Second Sunday Sprint | 0000Z-0200Z, May 14 |
| Phone Fray | 0230Z-0300Z, May 16 |
| RSGB 80m Club Championship, Data | 1900Z-2030Z, May 16 |
| NAQCC CW Sprint | 0030Z-0230Z, May 17 |
| NCCC RTTY Sprint | 0145Z-0215Z, May 18 |
| NCCC Sprint | 0230Z-0300Z, May 18 |
| Portuguese Navy Day Contest | 0900Z, May 18 to 1700Z, May 20 |
| Slobozhansky Sprint Contest | 1800Z-1959Z, May 18 (SSB) and 2000Z-2159Z, May 18 (CW) |
| UN DX Contest | 0600Z-2100Z, May 19 |
| NZART Sangster Shield Contest | 0800Z-1100Z, May 19 and 0800Z-1100Z, May 20 |
| Aegean RTTY Contest | 1200Z, May 19 to 1200Z, May 20 |
| EU PSK DX Contest | 1200Z, May 19 to 1200Z, May 20 |
| His Maj. King of Spain Contest, CW | 1200Z, May 19 to 1200Z, May 20 |
| Feld Hell Sprint | 1600Z-1759Z, May 19 and 2000Z-2159Z, May 19 |
| Baltic Contest | 2100Z, May 19 to 0200Z, May 20 |
| Run for the Bacon QRP Contest | 0100Z-0300Z, May 21 |
| SKCC Sprint | 0000Z-0200Z, May 23 |
| Phone Fray | 0230Z-0300Z, May 23 |
| CWops Mini-CWT Test | 1300Z-1400Z, May 23 and 1900Z-2000Z, May 23 and 0300Z-0400Z, May 24 |
| RSGB 80m Club Championship, CW | 1900Z-2030Z, May 24 |
| NCCC RTTY Sprint | 0145Z-0215Z, May 25 |
| NCCC Sprint | 0230Z-0300Z, May 25 |
| CQ WW WPX Contest, CW | 0000Z, May 26 to 2359Z, May 27 |
| QRP ARCI Hootowl Sprint | 0000Z-0100Z, May 28 |
| Phone Fray | 0230Z-0300Z, May 30 |
| CWops Mini-CWT Test | 1300Z-1400Z, May 30 and 1900Z-2000Z, May 30 and 0300Z-0400Z, May 31 |

Into June ...

| | |
|------------------------------------|--|
| PVRC Reunion | 0000Z-0400Z, Jun 1 (CW) and 0000Z-0400Z, Jun 2 (SSB) |
| NCCC RTTY Sprint | 0145Z-0215Z, Jun 1 |
| NCCC Sprint | 0230Z-0300Z, Jun 1 |
| 10-10 Int. Open Season PSK Contest | 0000Z, Jun 2 to 2400Z, Jun 3 |
| DigiFest | 0400Z-1200Z, Jun 2 and 2000Z, Jun 2 to 0400Z, Jun 3 and 1200Z-2000Z, Jun 3 |
| Wake-Up! QRP Sprint | 0600Z-0629Z, Jun 2 and 0630Z-0659Z, Jun 2 and 0700Z-0729Z, Jun 2 and 0730Z-0800Z, Jun 2 |
| SEANET Contest | 1200Z, Jun 2 to 1200Z, Jun 3 |
| UKSMG Summer Contest | 1300Z, Jun 2 to 1300Z, Jun 3 |
| Kentucky QSO Party | 1400Z, Jun 2 to 0200Z, Jun 3 |
| IARU Region 1 Field Day, CW | 1500Z, Jun 2 to 1459Z, Jun 3 |
| RSGB National Field Day | 1500Z, Jun 2 to 1500Z, Jun 3 |
| Dutch Kingdom Contest | 1500Z, Jun 2 to 1500Z, Jun 3 |
| RSGB 80m Club Championship, Data | 1900Z-2030Z, Jun 4 |
| ARS Spartan Sprint | 0100Z-0300Z, Jun 5 |
| Phone Fray | 0230Z-0300Z, Jun 6 |
| CWops Mini-CWT Test | 1300Z-1400Z, Jun 6 and 1900Z-2000Z, Jun 6 and 0300Z-0400Z, Jun 7 |
| NRAU 10m Activity Contest | 1700Z-1800Z, Jun 7 (CW) and 1800Z-1900Z, Jun 7 (SSB) and 1900Z-2000Z, Jun 7 (FM) and 2000Z-2100Z, Jun 7 (Dig) |
| SKCC Sprint Europe | 1900Z-2100Z, Jun 7 |
| NCCC RTTY Sprint | 0145Z-0215Z, Jun 8 |
| NCCC Sprint | 0230Z-0300Z, Jun 8 |
| HA3NS Sprint Memorial Contest | 1900Z-1929Z, Jun 8 (40m) and 1930Z-1959Z, Jun 8 (80m) |
| DRCG WW RTTY Contest | 0000Z-0759Z, Jun 9 and 1600Z-2359Z, Jun 9 and 0800Z-1559Z, Jun 10 |
| VK Shires Contest | 0600Z, Jun 9 to 0600Z, Jun 10 |
| Asia-Pacific Sprint, SSB | 1100Z-1300Z, Jun 9 |
| Portugal Day Contest | 1200Z, Jun 9 to 1200Z, Jun 10 |
| SKCC Weekend Sprintathon | 1200Z, Jun 9 to 2400Z, Jun 10 |
| GACW WWSA CW DX Contest | 1500Z, Jun 9 to 1500Z, Jun 10 |
| REF DDFM 6m Contest | 1600Z, Jun 9 to 1600Z, Jun 10 |

Good Luck In The Contest

HAB Flight Day, April 27, 2018 - Brief Report

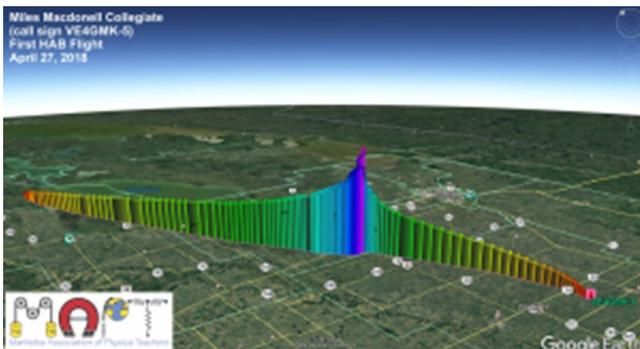


The Astro Jimmies Just Before Launch

After a two plus hour drive, thirteen school teams consisting of roughly 200 students and teachers began arriving at Alonsa School at about 9:30 AM. The teams set up along a tree line seeking shelter from a gusting north wind. The St. James Collegiate team (Astro Jimmies) launched first at about 11:45. Eventually 11 of the thirteen teams made it into the air. Two teams scrubbed for technical reasons.

The flight track predictions were reasonably accurate. Most flights were only a couple miles from the predicted track. The range of the flights was variable as expected mostly because of the lift created by wind flowing over the balloon while teams attempted to measure neck lift. Some teams managed to make a good determination while others were really off the mark. Something we can learn from.

Landings were in a line from the Elm Creek all the way to Sherack Minnesota (a little NE of Grand Forks). See aprs.fi. The goal of our group was to achieve a 5.0 m/s ascent rate and landings near Carman but most ascent rates were in the 3.0 to 4.0 m/s range resulting in landings in the Plum Coulee area. New team, Miles Macdonell's flight was pretty typical. Their ascent rate was about 3.6 m/s. The HAB entered the polar Jetstream at about 5000 metres with the strongest wind recorded of 170 km/h at an altitude of 10 000 metres. Their balloon burst at a height just over 30 km. The Miles Mac track length was about 207 km



Miles Mac's Flight Path on April 27/18

Some HABs strayed further west than expected and passed through the air training area west of Southport (Portage la Prairie) but at considerable height; above 40 000 feet. Two teams landed in the USA but their payloads were soon recovered. The Minnesota flight by a new team (U of W Collegiate) is probably a range record for our group; about 350 km. Their payload was recovered by teachers in a field after dark a few miles northeast of Grand Forks. The Garden City payload (most of it) was retrieved from Reiny's Bar in Bathgate North Dakota. A Mobius videorecorder, SD card and a small OLED display is missing.



Garden City Collegiate Recovers their Payload at Reiny's Bar in Bathgate North Dakota

Some teams lost APRS data after the burst. Although we are not sure, this could be a result of the COCOM Limits placed on GPS receivers. We only use GPS receivers which we know work above 60 000 foot limit but after the burst, its possible that some of HABs reach speeds in excess of the 1000 knot or 1900 km/h limit. (Note: The speed of sound is roughly 1200 km/h.) The payload and GPS receiver at this point is very high and falling very fast (like a ballistic missile). Exceeding the COCOM limit will cause the GPS receiver to reset and it may not satellite lock before the payload lands. We think that using slightly larger parachutes could solve this problem.

As of this writing we have two teams still looking for their payloads. We wish you well and expect a speedy return of payloads to their rightful owners.

Star Wars themed payloads were popular this year. There was a Death Star as well as a Tie Fighter and R2D2 of course. We await the results of student experiments and a general debrief at the next Manitoba Schools HAB Symposium.

More flights will follow over the coming weeks. Immanuel Christian School flew successfully on May 2nd with call sign VE4KAV. They launched from Carman Collegiate and they recovered their payload northeast of St. Anne in a farm yard.

Continued....

⁷
The HAB school students and teachers extend a big thank you to the radio amateurs who run APRS gateways and digis in Manitoba, North Dakota and Minnesota (VE4HEK, VE4DPR, VE4TV-10, W0KGW-10, N0RNB-5, N0QXM and KC0SD-3). Without them we could not track our flights.

73

Robert Striemer (VE4SHS)

Spotlight On: Dave Wood VE4KU
By David VE4DAR

Luckily I spotted Dave Wood VE4KU during coffee one Saturday morning in October and asked him for an interview. Here's what he said:

"My father, VE4LF, was a ham. He and friends Bruce VE4KU and Ken Milburn VE4WA encouraged me to get my ticket. I took the course at St. James Collegiate with Wayne Warren VE4WR and got my Basic, 12 wpm CW, and Advanced in 1990."



Build or buy? "I drove to Seattle, Washington and bought a Kenwood 440 transceiver. I installed a tower and a Mosely tribander antenna. Now I have a dipole."

Memorable moments? "My first contacts were Hugh Dollard VE7PB and Mike Pura VE4MP. I made about 20 contacts on CW at Flanders Lake in North East Manitoba while building a cottage there. On a trip to the Alaska panhandle, I stopped at Smithers, BC, and set up a portable station during Field Day, and contacted Bruce VE4KQ and others in Winnipeg."

What have you got out of ham radio over the years? "Companionship, some technical knowledge. It kept me entertained while I travelled to Oregon. I've made some good friends."

Particular interest? "Volunteering for various events."

Public service? "ARES, dog sled races, Manitoba Marathon and canoe races, Pan Am Games."

Advice for new hams? "Learn and use CW; talk to people; find an Elmer."

Future of ham radio? "I'd like to see amateur radio as just radio; not on the Internet. Also, I'd like ham radio to be a means of communication in defense of Canada."

Thanks for this, Dave.

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 and Dick's "Swap & 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!

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 Local Time (CT)**

**Prairie Traffic Net (CW) 3660 Khz
Daily at 01:30 UTC**

**Aurora Net (Afternoon) 7055 Khz
Daily at 23:30 UTC
Aurora # 2 Net (Evening) 7055 Khz
Daily at 02:30 UTC**

**MB Wx Net 3743 Khz
Daily at 8:30 Local Time (CT)**

The Newscaster is the Official Publication of **Winnipeg Amateur Radio Club**
Please send your submissions/comments to the editor Mark VE4MAB, - ve4mab@outlook.com