

# The Hamilton Amateur

MEETING APRIL 19, 1995  
NASH AUDITORIUM, CHEDOKE HOSPITAL  
8.00 PM  
SPEAKER: TIM REID, ENVIRONMENT CANADA  
TOPIC: CANWARN, AN UPDATE

## EXECUTIVE 94-95

PRESIDENT	Lorraine MacPherson	VA3NZ	389-7653
PAST PRESIDENT	David Bruton	VE3DWJ	383-9808
VICE PRESIDENT	Bob Tenty	VE3TOK	692-9245
VICE PRESIDENT	Fiore Manga	VE3OQG	578-1789
SECRETARY	Jason Clarke	VE3ZYD	544-9970
TREASURER	Joe Urbanski	VE3OCD	388-8383
MEMBERSHIP	Jeff Smallwood	VE3NVY	545-6788

## HARC COMMITTEE CHAIRPERSONS

HISTORICAL:	VA3GO	George Olenick	383-7338
BULLETIN EDITOR:	VE3SON	Jim Walsh	689-6839
EDUCATION:	VE3EKY	Bernie Granby	527-7175
HEALTH AND WELFARE:	SWL	Ellen Reinke	522-8909
STATION MANAGER	VE3PFT	Paul Coppin	627-5672
HOSPITALITY CO-ORD:	VE3OQG	Mary Urbanski	388-8383
SWAP NET CONTROL:	VE3JWJ	John Johnston	578-4275
REPEATER:	VA3SP	Mike Spenuk	304-0980
EMERGENCY CO-ORD:	VE3EIK	Pat Brennan	561-5413
VE3DC Licencee:	VE3FHQ	Glen Gibson	385-2786
VE3NCF Licencee:	VE3MWH	Mark Gibson	389-4308
VE3RCB Licencee:	VE3EIK	Pat Brennan	561-5413
DELEGATED EXAMINERS:			
	VE3EKY	Bernie Granby	527-7175
	VA3NZ	Lorraine Macpherson	389-7653
FIELD DAY CO-ORD:	VE3PFT	Paul Coppin	627-5672
FLEAMARKET 95:	VE3WVC	Bill Court	572-3755
PROPERTY:	VE3NVY	Jeff Smallwood	545-6788
PUBLIC LIASONS:	VE3PFT	Paul Coppin	627-5672
AWARDS & CONTESTS:	VE3DWJ	David Bruton	383-9808
TECHNICAL:	VA3SP	Mike Spenuk	304-0980
HF CONTESTING:	VE3OZY	Rick Danby	544-3253

General Meeting Minutes

Feb.15/95

The H.A.R.C. met at the Nash Auditorium on Feb.15/95. Before the meeting got started, Fiore(VE3OQG) presented Lorraine with some Flowers for Valentines Day. The President, Lorraine(VA3NZ) brought the meeting to order at 20:05. She greeted everyone and then got onto business.

AWARDS: Dave presented some awards to Al(VA3AM) for the Order of Merit, Mark(VE3JVJ) for Crawford Trophy, Fiore(VE3OQG) for Services to the Public through Amateur Radio, Everett(VE3OQX) for the Order of Past President, and John(VE3JWJ) for CW Operating Award.

CONTESTING: Rick(VE3OZY) made an announcement that anyone that wishes to participate in the contesting in the future, they are to get in touch with Rick(VE3OZY), Jeff(VE3NVY), or anyone in the Contesting Group.

ANNOUNCEMENTS: Fred(VE3GCP) spoke about the passing of Les(VE3EGT), and the great response at Les's funeral. Les's wife was "MOVED" at the amount of people that attended Les's Funeral. Fred shared with us the joys of knowing Les and was reminiscent of the contributions that he brought into everyone's lives. He then reminded us of although being blind, he saw more to life than MOST and allowed us to glimpse into it.

Fiore(VE3OQG) asked everyone to please stand for a moment of silence.

Paul(VE3PFT) mentioned that he still needs people for the Around the Road Bay Race, and that this years Field Day is on June 24th and 25th The 12wpm Code Class is NOW ON!!! and if you wish to take this course then contact Paul at (905)627-5672.

Lorraine introduced our guest speaker, Bill(VE3YR). Bill spoke to us about the New Trunking Radio System that is comming to Hamilton, Halton areas. A very good explanation of the way the radio systems work was given, as well as videos and a computer program was also seen. A very informative 50 mins. Thanks Bill(VE3YR), from the Hamilton Amateur Radio Club.

**\*\*COFFEE BREAK\*\* 21:25**

Lorraine(VA3NZ) brought the meeting back to order at 22:00

OLD BUSINESS: Reports: Membership, Jeff(VE3NVY) reports that there is 2 new members; Robert(VE3NFM) and Brad(VA3???) . Welcome to the Club!!

Treasurers Report, Joe(VE3OCD) Reports that the total for the end of January is \$5955.41. Motion to accept was made by Mary(VE3OGQ) and 2nd by Jeff(VE3NVY). Passed

ERRORS: The Jan.18/95 Bulletin errors are: 1) Ray Baker is to be corrected to Al Barker. 2) Fiore's Callsign "VE3OGQ" is to be corrected to (VE3OQG)... Sorry Al and Fiore!!!

Motion to accept the minutes as corrected, Mary(VE3OGQ) and Jeff(VE3NVY). Passed

NEW BUSINESS: Trip to the "Haida" is being processed. Lorraine(VA3NZ) spoke about Fiore(VE3OQG) wanting to plan a trip to the 1000 Islands. He has a good deal on a bus to go. So please... If you wish to go on this trip, then let someone on the Executive know and they will pass the info to Fiore.

VE3EVI	Paulowich	John	389-7313
VE3FBO	Martinak	Daniel	643-2426
VE3FDK	Kassay	John	385-0422
VE3FHQ	Gibson	Glen	385-2786
VE3FMG	Patrick	Michael	544-5711
VE3FMS	Paige	John	545-4860
VE3FTD	Taylor	Glenn	664-2794
VE3FVK	Krstulic	Frank	664-4249
VE3FYQ	Gilson	Ward	522-0415
VE3GCP	Robinson	Fred	575-5197
VE3GFE	Bolibruch	Stan	528-4002
VE3GKI	Kezel	Charles	383-5813
VE3GKP	Powell	Harvey	383-1529
VE3HAC	Hornsby	Art	547-3735
VE3HJJ	MacMillan	Angus	388-0125
VE3HKQ	Bryce	Doug	561-6808
VE3HLI	Goldberg	Gerry	528-7688
VE3HNG	Barker	Al	527-1475
VE3HPD	Forde	Vic	385-2662
VE3HTC	Rypma	David	689-3014
VE3HTD	Wile	Henry	627-9931
VE3HTS	Kapphein	John	385-3839
VE3IBP	Provost	Brian	561-0878
VE3ISX	Lisoweski	Barry	547-9364
VE3JAI	Mitchell	Emsley	627-0333
VE3JCJ	Johnson	Jerry	544-7770
VE3JIO	Ormond	James	529-2679
VE3JOZ	Gajdacs	Joe	318-6259
VE3JPE	Pilszak	Jeff	387-0353
VE3JSJ	Murray	Gordon	575-3647
VE3JSO	Osborn	Jerry	388-7149
VE3JUC	Billone	Tom	529-3119
VE3JVJ	Hill	Mark	575-4370
VE3JWJ	Johnston	John	578-4275
VE3KFE	Thomsen	Leif	528-5632
VE3KHD	Donaghue	Kenneth	689-6285
VE3KSN	Mangaroo	Kelvin	ERR
VE3KTP	Feeney	Thomas	648-1615
VE3KTV	Hazaras	Spiro	627-4180
VE3LB	Varinsky	Cyril	628-4801
VE3LBM	Maharaj	Leela	ERR
VE3LOI	Lagace	Louise	ERR
VE3LWD	Staat	Wayne	561-2253
VE3MIL	Millward	Norm	573-6062
VE3MWH	Gibson	Mark	ERR
VE3MZA	Mildenberger	Michael	ERR
VE3NBW	Marha	Karel	627-7587
VE3NBY	Marha	Eva	ERR
VE3NCM	Mangaroo	Ken	336-0080
VE3NVY	Smallwood	Jeff	545-6788
VE3NYN	Walsh	Mike	ERR
VE3OCD	Urbanski	Joseph	388-8383
VE3OCM	Mangaroo	Odile	ERR
VE3OCY	Graziano	Don	560-1960

VE30GQ	Urbanski	Mary	ERR
VE30II	King	Philip	578-9880
VE30IW	Vanderlubbe	Max	627-0672
VE30IZ	Leslie	William	679-4161
VE30KA	Froman	Carl	389-4307
VE30QG	Manga	Fiore	578-1789
VE30ZE	Buzanko	Wade	ERR
VE30ZY	Danby	Rick	544-3253
VE3PBU	Brown	Paul	776-2200
VE3PFT	Coppin	Paul	627-5672
VE3PRM	Dawson	Don	627-5311
VE3PUI	Vogel	Kurt	389-8246
VE3QEE	Eedson	Mardy	648-0187
VE3QRT	Harding	Craig	648-0573
VE3QRZ	Aubin	Claude	527-6931
VE3RNE	Maharaj	Ram	387-3457
VE3ROJ	Wilson	Russell	522-6939
VE3RXY	Rudan	Milivoj	664-6015
VE3SBP	Mandula	Steve	664-6543
VE3SCH	Schmoll	Konrad	560-1031
VE3SMF	Fedak	Stuart	628-4131
VE3SON	Walsh	Jim	689-6839
VE3SS	Boerkamp	Ted	ERR
VE3TNW	Wallace	Tony	526-6154
VE3TOK	Tenty	Bob	692-9245
VE3TOW	Blain	Don	679-6302
VE3TTO	Notto	Gary	387-1103
VE3UTA	Geddes	Robert	389-3001
VE3VD	Shilton	Peter	774-8766
VE3VMO	Spafford	Vic	525-3531
VE3VNG	Galloway	Neil	383-6986
VE3WAG	Campbell	Jack	522-0825
VE3WAU	Anderson	Wayne	383-4953
VE3WOW	Owsianik	Wally	529-8558
VE3WTE	Miller	James	547-0515
VE3WVC	Court	Bill	572-3755
VE3XCR	Smith	James R.	525-6854
VE3XKV	Verheul	Robert	628-5478
VE3YAG	Appleyard	Richard	549-7908
VE3YEO	Bown	Bill	545-2232
VE3YOC	Graziano	Mary	ERR
VE3ZDG	Monk	Douglas	527-2269
VE3ZKO	McDonald	Norm	385-6888
VE3ZNR	Zeman	Rudolph	544-2133
VE3ZRO	Johnson	Ken	ERR
VE3ZYD	Clarke	Jason	544-9970
VE3ZYM	Cameron	Donald	488-0448
	0 Bienkiewicz	Joseph	544-5515
	0 Gibson	Vera	ERR
	0 Reinke	Ellen	522-8909
	0 Walsh	Betty	ERR
	0 Linger	Vincent	ERR
	0 Mohrhardt	Barrie	527-6927



The following band plan proposal is currently open for discussion. The Chair of the RAC's Spectrum Management Committee, Mr. Dana Shtun (VE3DSS), indicated that this band plan would be published in the May issue of The Canadian Amateur. A copy is printed here primarily for the benefit of those members of the Hamilton ARC who are not members of RAC, nor have packet radio capability.

<u>FREQUENCY (MHz)</u>	<u>UTILIZATION</u>
144.000 - 144.100	MOONBOUNCE AND TERRESTRIAL CW
144.100	CW CALLING FREQUENCY
144.100 - 144.200	CW/SSB WEAK SIGNAL
144.200	SSB CALLING FREQUENCY (1)
144.200 - 144.275	AM NARROW BAND MODES (ACSSB, SSB, CW, other modes with bandwidth <= 3 KHz. ie FAX, SSTV, RTTY)
144.275 - 144.300	PROPAGATION BEACON NETWORK
144.300 - 144.500	DIGITAL (2)
144.340	NATIONAL ATV COORDINATION FREQ. (1)
144.390	NATIONAL APARS FREQUENCY (9)
144.500 - 144.600	REPEATER INPUTS PRIMARY
	LINEAR TRANSLATOR INPUTS SECONDARY
	REPEATER INPUTS
144.600 - 144.900	DIGITAL (3)
144.900 - 145.100	REPEATER OUTPUTS PRIMARY
145.100 - 145.200	LINEAR TRANSLATOR OUTPUTS SECONDARY
	REPEATER OUTPUTS
145.200 - 145.500	SAREX/MIR/SPACE STATION LINKS
145.500 - 145.590	DIGITAL (4)
145.590 - 145.790	EXCLUSIVE AMATEUR SATELLITE SERVICE
145.800 - 146.000	REPEATER INPUTS
146.010 - 146.370	FM SIMPLEX (5)(6)
146.400 - 146.580	NATIONAL FM CALLING FREQUENCY (1)
146.52	REPEATER OUTPUTS
146.610 - 147.390	FM SIMPLEX (30 KHz raster)(7)
147.420 - 147.570	DIGITAL (30 KHz raster)(8)
147.435 - 147.585	FM REPEATER INPUTS
147.600 - 147.990	

FOOTNOTES:

- (1) Once communications are established QSY off the frequency.
- (2) Seven (7) frequencies on a 20 KHz channel raster. 144.37, 144.39, 144.41, 144.43, 144.45, 144.47, 144.49. Occupancy to occur ONLY when available Digital frequencies within the sub-bands 144.9 - 145.1 Mhz and 145.59 - 145.79 Mhz are exhausted. Consult with your local digital coordination body regarding maximum ERP, Bandwidth and coverage area within this subband. Operation may occur on 144.31 Mhz provided operating bandwidth, ERP do NOT cause harmful interference within the propagation beacon network subband.
- (3) Ten (10) frequencies on a 20 KHz channel raster. 144.91, 144.93, 144.95, 144.97, 144.99, 145.01, 145.03, 145.05, 145.07, 145.09. Consult with your local coordination body.
- (4) Eleven (11) frequencies on a 20 KHz channel raster 145.59, 145.61, 145.63, 145.65, 145.67, 145.69, 145.71, 145.73, 145.75, 145.77, 145.79 Mhz. Consult with your local coordination body.
- (5) The frequencies 146.40, 146.43, 146.46 Mhz continue to be used as repeater inputs in some areas. Consult with your local coordination body.
- (6) Thirteen (13) Channels on a 15 KHz channel raster 146.415, 146.430, 146.445, 146.460, 146.475, 146.490, 146.505, 146.520, 146.535, 146.550, 146.565, 146.580, 146.595 Mhz.
- (7) Six (6) Channels on a 30 KHz channel raster, 147.420, 147.450, 147.480, 147.510, 147.540, 147.570 Mhz.
- (8) Six (6) Channels on a 30 KHz channel raster 147.435, 147.465, 147.495, 147.525, 147.555, 147.585 Mhz. Consult your local coordination body for available frequencies, ERP and bandwidth.
- (9) Consult with your local coordination body.

TUESDAY NITE SWAPSHOP HELD ON CLUB REPEATER VE3NCF 146.760(-600)  
NET CONTROLLER VE3JWJ JOHN (905)578-4275  
ALL ITEMS ARE LISTED ON THE SWAPSHOP FOR 4 WEEKS  
LIST AVAILABLE ON PAKET AND PHONE BBS 905-575-4745

SWAP LISTING FOR MARCH 21

VE3GFE, STANLEY (905)528-4002

1- HEATH SB104 HF TRANSVR, WITH PWR-SUPLY, DESK MIKE, CABLES  
CONSOLE WITH PHONE PATCH/SWR/CLOCK/TEST/ PACKAGE \$650.00

VE3TJY, MIKE (519)893-8747

2- YAESU FT-470 DUAL BAND HT, SPKR MIC, CIG ADAPTER \$350.00

VE3HPD, VIC (905)385-2662

3- HEATH SB200 HF LINEAR AMP \$425.00

VE3TZQ, FRANK (905)278-7112

3- YAESU FRDX400 AMATEUR RECIEVER \$250.00

VE3TNW, TONY, (905)526-6154

4- YAESU FT-7B 10-80 HF TRANSVR. 10-100 WATTS \$375.00

4- MOBILE BRACKET FOR FT-7B \$25.00

VE3JNC, HELMUT(416)743-1940

2- ICOM-290E 2MTR ALL MODE \$450.00 or trade

2- ALINCO DJ580T DUALBAND H.T. \$400.00 or trade

2- TRUNER +2 PRE-AMP DESK MIKE \$40.00

2- MFJ 407B DELUXE ELECTRONIC KEYS \$60.00

2- GEN. ELECTRIC 6MTR FM TRANSVR 100 WATT \$150.00

2- TRIPLITE PRECISION REGULATED PWR/SPLY 13.8VOLT - 3AMP NEW \$35.00

2- 2 TRC200 H.H. 5 WATTER TRANSVRS. 27MHZ CHARGER, MIC, ANT \$80.00 FOR BOTH

VE3WWR, JOHN (905)385-7694

4- MFJ-949-D DELUXE VERSA TUNER II \$140.00

4- MFJ-921 VHF TUNER 144-220 MHZ \$75.00

VE3WTE, WHITEY (905)547-0515

4- YAESU FT-2200 2MTR MOBILE 5-25-50 WATTS, TTONE MIC \$400.00

4- PYRAMID PHASE III 12VOLT 30 AMP PWR/SPLY \$200.00

VE3CIS, MERV (905)634-2106

4- BUTTERNUT HF5B COMPACT BEAM 10-20 MTR. NEW NOT USED \$200.00

4- HEATH SB620 SCANALYZER \$50.00

4- SUPERIOR ROTOR AND CONTROLLER \$30.00

VA3RF, DAVE (905)318-6318

3- ALINCO DUAL BAND MOBILE \$550.00 or partial trade 2mtr mobile + \$\$\$.

3- 2 MTR 1/4 WAVE TRUNK LIP MOUNT \$30.00 ea

3- SHARP LAPTOP, CARRY CASE, PWR/SUPLY AND BATTERIES \$200.00

3- DIAMOND CP-6 HF VERTICAL ALL BAND ANTENA CHIMNEY MOUNT \$250.00

3- 2 of 2400/9600 BAUD INTERNAL MODEMS \$50.00 each.

VE3MFK, DON (905)639-2300

4- TOSHIBA 1600 LAPTOP. [[ NO COMPUTER ]] 3 COMPACT CHARGE UNIT,

4- CAR ADAPTER, BRAND NEW BATTERY \$75.00

VE3PKY, CHRIS (905)547-3169

4- WANG WORD PROCESSOR WITH 2 5 1/4 DRIVES \$25.00

VE3CCF, CHRIS (905)847-0090

2- RG-213 COAX 300 FEET SPLIT 100'S BRAND NEW NEVER USED  
MILSPEC 17 00.63 CENTS A FOOT

2- PACKARD BELL XT, 30 MG HD., 2400 BAUD MODEM, MONO SCREEN, KEYBOARD  
DOS AND SOFTWARE \$150.00

VE3NYX, RENZO (905)521-1064

3- UNIDEN HR2600 10 MTR RIG, MANUAL \$200.00

VE3JIS JACK (905)648-6443

1- ALLIANCE ROTOR WITH CONTR. \$55.00

1- CHANNEL MASTER ROTOR WITH CONTR. \$55.00

1- SUPERIOR ROTOR WITH CONTR. \$50.00

1- CROWN ROTOR WITH CONTR. \$45.00

1- TURNER +3B MIC \$45.00

1- MICRONTA 2.5 AMP PWR/SPLY \$20.00

1- MICRONTA 4 AMP PWR/SPLY \$30.00

1- MICRONTA HF PWR/SWR METER HANDLES 1 KILOWATT \$35.00

1- UNIDEN PRESIDENT 2510 MIC \$25.00

1- NUMARK PREAMP CONTINUOUS SURGE PWR/SUPPLY \$25.00

1- SHURE 3M66 DESK MIKE \$30.00

1- D104 ASTATIC MIKE \$55.00

VE3JCJ, JERRY (905)544-7770

2- POWER IDC SUPPLIES 24 VOLT 10 AMP, 24 VOLT 4.8 AMP \$10.00 each.

WANTED

VE3ZNR, RUDY (905)545-6931 Before 1pm please

1- 200 pf CAPACITOR 7.5 KWATT WORKING WANTED

1- 167 pf CAPACITOR 7.5 KWATT WORKING WANTED

VE3VRU, CHRIS, (416)661-3796

2- R.S. PRO 2022 MANUAL OR SCHEMATIC OR COPIES WANTED

VE3EKY, BERNIE (905)527-7175

2- MFJ 1270 TNC MANUAL OR COPY OF WANTED

VE3CCF, CHRIS (905)847-0090

2- YAESU FT-990 DC RIG WANTED DC ONLY..

VE3PKY, CHRIS (905)547-3169

3- 80 AND 40 METER CRYSTALS WANTED

VE3JCJ, JERRY (905)544-7770

3- 142.845 / 154.830 / 150.695 CRYSTALS WANTED

3- YAESU FNB12 AND FBA17 DEAD BATTERIES WANTED

VE3BNF, DAVE (905)578-0186

3- BROKE 11 METRE RADIOS WANTED FOR PARTS.

VA3BLK, DAN (519)743-1726

3- ACUATOR ARM FOR SATELLITE DISH WANTED

VE3VD, PETER (905)772-8938

4- HEAVY DUTY SELF SUPPORT TOWER WANTED ROHN45, TRYLON SERIES  
OR HEAVY DUTY COMMERCIAL. MUST BE HEAVY DUTY

Radio Amateurs of Canada  
Proposed 430 - 450 MHz Band Plan

February 1995

The following band plan proposal is currently open for discussion. The Chair of the RAC's Spectrum Management Committee, Mr. Dana Shtun (VE3DSS), indicated that this band plan would be published in the May issue of The Canadian Amateur. A copy is printed here primarily for the benefit of those members of the Hamilton ARC who are not members of RAC, nor have packet radio capability.

<u>FREQUENCY (MHz)</u>	<u>UTILIZATION</u>
430.025 - 431.500	DIGITAL MODES (1)(6)(7)
431.500 - 433.000	CW, SSB, MOONBOUNCE (Global Exclusive Allocation), Amplitude Modulation narrowband modes. Centre frequency for EME (globally coordinated frequency allocations above and below 432.0 Mhz)
432.0	National CW Calling Frequency (2)
432.1	National SSB Calling Frequency (2)
432.2	Propagation Beacon Network Exclusive (10)
432.3 - 432.4	Experimental Narrow band modes (10)
432.4 - 433.0	DIGITAL MODES (1)(7)
433.000 - 434.800	Guard Band, Analog Repeater Links(4)
434.800 - 434.900	Guard Band
434.900 - 435.000	SATELLITE (Global Exclusive Allocation)
435.000 - 438.000	Amateur Television (NTSC, VSB) (3)(6)(8)(9)
438.000 - 444.000	Video Carrier Frequency
439.25	Repeater Outputs (5)
442.000 - 445.000	Analog and Digital Links(4)(1)
445.000 - 445.775	DIGITAL (1)
445.800 - 445.975	FM Voice Simplex
446.000 - 446.175	National FM Calling Frequency (2)
446.000	FM Remote Base (Uncoordinated)
446.200 - 446.375	Analog and Digital Links (4)(1)
446.400 - 446.775	DIGITAL (1)
446.800 - 446.975	Repeater Inputs (5)
447.000 - 450.000	

FOOTNOTES:

(1) Digital Channelling 25 Khz minimum raster, contiguous multiples of 25 Khz may be released based on required Digital System Bandwidth. (Data Rate and Modulation scheme will govern bandwidth). Consult with your local coordinating body, or RAC where no coordination exists.

FOOTNOTES continued

- (2) Once communications has been established, QSY off frequency to allow others to call.
- (3) ATV operations may be for point to point, or repeater input operations. Note that any non ATV activity below 442.0 Mhz must be coordinated with ATV to minimize interference to video. Consult with RAC for advice on administrative and technical means to achieve this. Note that Double Sideband Video is NOT permitted by IC regulation. Note that Digital operations in this sub band should only occur if other frequencies allocated are full.
- (4) Local Option - consult with your local coordinating body.
- (5) Repeaters - includes Narrowband FM, Digital(Voice, video and data) and "future" modes. Frequencies must be coordinated with your local coordinating body, or RAC where no coordination body exists.
- (6) Non conforming analog links on 70 cm are grandfathered provided that their existence does not conflict with modulation schemes for that frequency sub-band. In the case of interference, coordination discussions must be held to resolve the problem. Note grandfathering ceases once that link goes out of service, consult with your local coordinating body.
- (7) Digital operations may include repeater operation, crossband duplex operation, links or simplex. Consult with your local coordination body.
- (8) RAC encourages development of Digital compression techniques to reduce video bandwidth within this sub-band.
- (9) Spread Spectrum, secondary, operations per IC bandwidth restrictions may occur within these sub-bands, but must not cause interference to primary Amateur systems.
- (10) No fixed systems, links or coordination permitted, except for propagation beacon network. Propagation Beacon frequencies are to be coordinated through the RAC VHF UHF Advisory Committee.



## Some Thoughts on Amateur Radio Band Planning

Michael Spenuk (VA3SP)

As some of you may have heard, this country's national amateur radio organization, Radio Amateurs of Canada (RAC), has initiated a long overdue review of the VHF and UHF band plans. The VHF-UHF Advisory Committee--which has also been referred to as the Spectrum Management Committee--is undertaking this review. Two members of this club have been involved with this committee, Lorraine (VA3NZ) and myself.

Band planning, or more generally spectrum management, is the process of allocating radio frequency spectrum for specific uses, in a way that maximizes the usefulness of the resource. With ongoing technical development, a greater range of radio frequency spectrum becomes useful for ever increasing applications. Probably the most significant factor in determining usefulness is cost. For example, widespread use of upper UHF and lower SHF spectrum for commercial mobile and portable applications is only now becoming commonplace as a result of new materials and improved manufacturing processes, both of which have significantly lowered cost. It has been suggested that the cost of communications will decrease by an order of magnitude by 2000, and a further order of magnitude by 2005. This reduction in cost, plus the ever increasing convergence of communication systems is creating significantly increased consumer demand for services--some may argue that it's not consumer demand, but a supplier induced demand. Regardless of the initiator, the end result is increased strain on a (somewhat) limited resource. (Within any given time period, the radio frequency spectrum resource is a fixed resource by technology and political regulation.) The management process in a global sense is called spectrum management. On a local scale, this process is called band planning.

Wireless or tetherless communication capability requires radio frequency spectrum. Evolving technologies are creating new applications, but these globally beneficial capabilities will likely have a greater negative impact on the Amateur service. Despite slight spectral gains below 30 MHz, the Amateur service has lost significant RF spectrum above 30 MHz. Recent decisions by the F.C.C. in the U.S.A. have increased the number of shared usages of the 33 cm band, and parts of the 13 cm band. Although in the latter case the Amateur service was upgraded to Primary status, it will share spectrum with PCS and unlicensed, lower power devices, like wireless LANs. In this part of Canada, we will shortly lose free access to the 220-222 MHz band; apparently we will have controlled access to parts of this spectrum. Evolving technologies may displace amateur radio, hopefully not completely, but they will likely lead to shrinkage of many existing Amateur allocations. This means that amateurs will necessarily have to concentrate their activities within narrower spectrum allocations. It also means that experimental activities will have to share spectrum with developed activities. Obviously this will require a much greater level of cooperation between amateur radio operators. It also suggests that education in matters relating to spectrum management needs to be enhanced.

The Amateur service is unique in that the federal regulator (Industry Canada in Canada) imposes a very minimal number of regulations upon the service. But

with this freedom comes a responsibility to self-regulate, and to wisely and efficiently utilize the radio frequency allocations granted. The most effective way in which to carry out this task is by following band plans, as well as by coordinating the activities which occur within defined band segments.

Presently, even in areas with numerous amateur radio stations, there is low utilization of the bands above 30 MHz. Even the 144 and 430 MHz bands can easily accommodate significantly more activity. With governments looking for new sources of revenue, and commercial interests keen on claiming as much RF spectrum as possible, one doesn't need to be a pessimist to envision Amateur bands being sold to the highest bidder. With growing interest and technical ability to utilize the upper UHF and lower SHF bands for personal communication systems (PCS), the (Secondary) Amateur allocations within this spectrum are already being nibbled away. Ultimately, this suggests that amateur communicators and experiments will have to co-exist to an even greater extent than they do presently. With ever increasing ways of communicating, this greatly complicates effectively sharing the amateur radio frequency spectrum resource on a voluntary basis.

The most efficient method of utilizing spectrum is through the coordination of activities. A lot of amateur radio activity is presently coordinated, although perhaps quite rudimentally. Some believe that more rigorous coordination of activities will avoid future conflicts. This area of discussion is quite involved, but it should be emphasized that coordination does not mean dictating what someone can or cannot do. Coordination means accommodating activity as best as possible. Of course in some instances, a person's desires may be quite out of line with respect to usual practice.

The RAC Spectrum Management Committee has discussed, heatedly at times, the 200cm and the 70cm band plans. The resulting proposals are included in this newsletter. But there is much more to spectrum management than simply, slightly modifying a band plan. In order to be effective, the amateur community needs to have an understanding of the underlying principles. The amateur community needs to understand that band plans are an effective means to facilitate equal access to the RF spectrum. And, of course, the amateur community should be able to participate in the development of band plans. The RAC apparently desires whole amateur community involvement; however, a strategy for involving the entire population has not been developed. Ironically, intercommunication is not ubiquitous in the Amateur service.

As a service to my fellow Club members, and to facilitate improvement of our self-regulating capabilities, regardless of your membership status with RAC, I will convey your thoughts to the SMC. Please review the included band plan proposals. As well, to gain a better understanding of the general knowledge level regarding spectrum management related issues, I've composed a short questionnaire. If you'd like to participate, or if you would like more information about the RAC SMC, or spectrum management, give me a call or send me a message.

PBBSnet: va3sp@ve3dtv.#scon.on.can.na  
AMPRNET: va3sp@bnet.ve3rdx.ampr.org  
Internet: a8009318@mcm2.cis.mcmaster.ca

KD4LMM	Bodner	Leo	383-6085
VA3A0B	Pennyregion	Phil	ERR
VA3ART	Verhoog	Art	389-9259
VA3AUN	Isram	Sewram	385-8015
VA3DFN	Payne	Daphne	527-0288
VA3DGF	Franklin	Dan	383-2397
VA3DJD	Donais	David J.	627-0763
VA3EBP	Pearman	Brad	388-3413
VA3GO	Olenik	George	383-7338
VA3GRG	Baran	Greg	318-6593
VA3HWB	Bradley	Harry W.	527-4335
VA3JAW	Worsell	John	575-5307
VA3KUR	Pickering	Kurt	312-1684
VA3NFM	Milburn	Robert	383-8262
VA3NSN	Niemcevic	Slavko	692-4995
VA3NZ	MacPherson	Lorraine	389-7653
VA3RAO	Olaveson	Rick	388-4131
VA3RF	Webb	Dave	318-5380
VA3RN	Norton	Roland	545-2790
VA3RWR	Ridge	Bob	679-3441
VA3SP	Spenuk	Mike	304-0980
VA3UTC	Todd	Terry	ERR
VE3AAH	Barber	Gordon	383-9161
VE3AEI	Deli	Andy	560-3416
VE3ALQ	Sherer	Douglas	387-6226
VE3A00	Gelber	Bernie	527-1246
VE3ATJ	Omerod	Linda	549-2951
VE3AZS	Swayze	Arthur	547-4090
VE3BK	Smith	Norman	385-5661
VE3BPK	Killbourne	Ross	662-7773
VE3BQB	Ashton	Robert	648-6703
VE3BYM	Tufts	Ralph	388-6146
VE3CBH	McGuffin	Robert	529-2567
VE3CFI	Myatt	Michael	561-0453
VE3CGC	Gillies	Robert	689-4933
VE3CKH	Card	Jean	575-3218
VE3CNZ	Hiltner	Frank	765-5798
VE3DHY	Hood	David	574-1041
VE3DJ	McArthur	Jock	648-4900
VE3DMD	Dorsey	Doug	527-7324
VE3DPC	Gue	Frank	634-9538
VE3DQU	Lawrie	Alec	385-7729
VE3DSN	Devotta	Sharen	385-4312
VE3DVV	Vandenberg	John	692-3802
VE3DWJ	Bruton	David	383-9808
VE3EBT	Tilley	David	648-2506
VE3EGL	Leighton	Ken	387-3022
VE3EGT	Tobicoe	Les	548-6397
VE3EHJ	Lander	David	387-0976
VE3EIK	Brennan	Pat	561-5413
VE3EKE	Zsepeczky	William	529-4958
VE3EKY	Granby	Bernie	527-7175
VE3EMS	Shilton	Heather	ERR
VE3ETO	Theule	Dennis	385-2811

Correspondance: A small Thank You Card was rx'd by Marg Tobicoe.

Motion to adjourn the meeting at 22:15 was made by Fred(VE3GCP) and 2nd by Jeff(VE3NVY). Passed.

President  
Lorraine Macpherson (VA3NZ)

Secretary  
Jason Clarke (VE3ZYD)

### THE CRAWFORD TROPHY

The Crawford "home brew" trophy is awarded annually to the best home made device for use in the amateur radio shack. The name "home brew" portrays the idea that the device was constructed in the home workshop, thereby requiring skill and patience in producing a product of quality. It also suggests that the device was made at home during leisure hours, rather than at the place of employment.

#### A. Purpose.

To encourage radio amateurs to build their own equipment. The prime purpose for making a device would be for improved amateur radio communications, and/or for testing amateur radio equipment.

#### B. Rules.

1. The device shall have been completed in the twelve months prior to the contest.
2. Although a limited number of operations in the fabrication of the device may be processed outside the home workshop, the majority of the work shall have been done in the contestants own workshop or that of a friend during leisure hours.
3. A contestant can not act as a judge for this contest.
4. Each contestant is to be given an opportunity to explain operation and purpose of the device, and any other details deemed helpful about the construction.

## J.P. CHAMBERS ASSOCIATES

*618 WEST 5TH ST.*

*HAMILTON ONTARIO, L9C-3R2*

PRINTING ALL TYPES

ADVERTISING NOVELTIES      RESUMES

BUSINESS CARDS (500) \$30.00

CALL ANYTIME      PAGER 312-2576

WEDDING STATIONERY AND SUPPLIES

10% DISCOUNT WITH THIS AD

TICKETS

STAG - JACK & JILL

DANCES - DRAWS - ALL TYPES

LASER PRINTING



From the President.

This month is turning into one giant cough for me, even had to have time off work. Breathing it seems is a thing of the past, but thankfully my fingers are not effected and this short note can be typed out.

May 27/95 has been booked for the club to visit the HMCS Haida which is permanently docked in Toronto. We will have a bus to get us there by 1:30 to 2:00p.m. for a guided tour. (Entrance fee \$1.50 per person plus \$5.00 for the bus). The radio room should be opened as this is a Saturday. Jerry Proc came to the regular club meeting and talked about the restoration of the radio equipment last year. This will be a nice follow up.

June 6/95 at McMaster University Planetarium, 7:30p.m. is the time for a group presentation on the heavens.

Remember to contact the contest group if you are interested in HF contesting. Get those projects on the bench home brew night is only 2 months away.

Everyone who called regarding the Acton trip had instructions sent out by mail two weeks ago. My sincere apologies if the mail has not delivered these in time

Lorraine VA3NZ

#### CANWARN

Those of us who were involved in setting up Canwarn are concerned about reports that the government intends to close many weather stations, presumably including the one at Mount Hope. Since this is an essential part of the Canwarn system, we are concerned about the future of Canwarn. Tim will bring us up to date on this matter.

A note to newly licensed Amateurs. There are reports of confusion about the expiry date on some recently issued station licenses. Be safe, check the expiry date, and if necessary get it renewed.

#### COMING EVENTS

Nominations for elected officers will be requested at the May meeting for election in June. Give it some thought so you can make a good nomination. The person nominated must accept the nomination in person at a meeting or in writing to the nomination chairman.

The Crawford Home Brew trophy will be awarded at the May meeting. This advance notice is to remind you that you have enough time to finish the project without leaving it to the last minute.

June is also a big month for Amateur Radio with Field day. Our club has always made a good showing but it depends on the efforts of many people. You do not have to be an expert operator to make a worthwhile contribution. Besides it is a wonderful learning experience.

The list of members and family members on our club mailing is included. Please advise the bulletin editor or any corrections.