

dx news

the magazine of the National Radio Club



VOLUME 41

15 JULY 1974

NUMBER 27



"Here is my \$14.00 for another year. This is the best club around." (Leonard Jozwiak, Detroit, MI)



ON THE INSIDE.....

- Full Convention Info
- The Debut of DXCHANGE - Bob Spearel, Jr.
- The CPC Dilemma: A Human Energy Shortage - Carl "Skip" Dabelstein
- Comment on FJP Equation for Arrival-Takeoff Angles and Corrections to "Trans-Polar DX" Caused Thereby... - Dave Fischer
- Latest NiC Domestic Log Updater - Ron Musco
- Verie Signers - Ernie Cooper
- More Notes on DX'ing Graveyards - Mike Levintow
- Canadian Family Life (Stations, that is) - John Oldfield
- New Medical Breakthrough for Longwave TA's - Charles Clayton
- A Follow-Up on the Autek Q-Box Review - Tom Sundstrom
- An FF Taped Report Form - Pierre Tremblay
- Clipping Corners - Various

NEW MEMBERS

- * Pressly Millen, 6 Cromwell Ct., Old Saybrook, CT 06475
- * Steve Johnson, 646 Sequoia Dr., Edgewood, MD 21040 (re-joins)
- * Ron Sibbitt, 849 Devine #12, Sarnia, Ontario, CANADA, N7T 1X4 (re-joins)
- * Phillip Swingley, 415 S. Elm, Muncie, IN 47305 (re-joins)
- Harold A. Whittier, 71 Spring St., Foxboro, MA 02035
- * Bill Gardner, USNS Nodaway, c/o FPO San Francisco, CA 96601 (now in Hawaii)

Welcome to the NRC, folks, and we hope to see you in Musings in the near future with an intro. Fellow members, if you live near one of these new members, why not give 'em a call and welcome them to the NRC !!

RENEWALS

A. Lehr, J. Legros, D. Erickson, L. Jozwiak, R. Eddy, F. Johnson, D. Pimper, W. Higgs, D. Eggert.

NOTES &c FROM NJPC

We also bid welcome to the Danish Shortwave Clubs International, now merged from the "old" DSWCI and the Cimbrer DX Club, and their MW editor, Barry Niendorf, 47 Newbold Rd., Wellesbourne, Warwick CV35 9QD, ENGLAND, for a new bulletin exchange.

PLEASE NOTE: HQ phone # 838-5721 will be inactive for the entire month of August, so don't call it expecting an answer, hi.

We welcome some new faces to the HQ crew effective June 1: Bob Stonier of Glen Rock, N.J. is now handling New Member Kits, and attending Pub Sessions; Frank Dailey of Preston, CT is now handling Pattern Books, and will be handling the Domestic Log when it's ready. Also to Charlie Clayton, who's also been attending Pub Sessions of late. Thanks to all of you !

The 25th Edition of the FBIS Logs are available from the US Gov't Printing Office. These are only corrected and updated to July 1, 1972, so.... The 26th edition, which should be updated to July 1, 1973 is sked for September. AM indexed geographically - \$2.00; AM by Freq. - \$2.00. Write to them at Box 2604, Washington, DC, 20013, and cite GPO publications number "PrEX-7. 9:972". Overseas orders add 25%.

OTP warns of energy pollution caused by radio waves

The Office of Telecommunications Policy (OTP) has reported that radio waves may affect human health at lower levels of radiation than previously believed. While stressing the preliminary nature of its findings, OTP repeated an earlier warning that without adequate monitoring and control programs, "man may soon enter an era of energy pollution of the environment comparable, in public health and ecologic implications, to the chemical pollution of today."

The OTP report, submitted to Congress, summarizes the first year of a coordinated research program involving principally the Department of Defense, Department of Health, Education and Welfare, and the Environmental Protection Agency.

The OTP coordinates the joint effort, which currently includes 114 projects.

The goal of the undertaking, according to the OTP, is "to produce a sound scientific understanding of how non-ionizing electromagnetic radiations (radio waves) affect living organisms." The OTP points out that while microwave and other radio frequency radiations are known to have adverse biological effects at high intensity levels, it generally has been accepted that power densities of 10 milliwatts or less per square centimeter were low enough to avoid injury from overheating. But the OTP repeated a concern expressed in an earlier report that the power levels in and around cities, airports, military installations and tracking centers, as well as "industries and homes, already may be biologically significant." Several "tentative and preliminary" study results indicate, the OTP reports, that there may be adverse effects "at lower levels (of radio wave radiations) than anticipated in the past."

TELEPHONY - JUNE 3, 1974

Submitted by Dave Fischer

14 THE WALL STREET JOURNAL :

Tuesday, July 2, 1974

Daylight Saving Time Is Thought of Dimly In Winter, It's Found

November-February Period
Should See Standard Time,
Transit Agency Suggests

By a WALL STREET JOURNAL Staff Reporter
WASHINGTON - The nation's fling at year-round daylight saving time wasn't very popular and shouldn't be repeated, the Transportation Department said.

The department, in an interim report to Congress, said the country should observe daylight time only for eight months—the usual May-October period plus March and April of 1975. But the U.S. should return to standard time in the dark of the November-February period, the report said.

Congress last January adopted a proposal by President Nixon to keep the clocks turned ahead to "fast time" all year, to save energy by providing more daylight during evening hours. The law will continue daylight time experimentally through October 1975.

But the Transportation Department report showed an electrical energy saving of only 0.75% to 1% this past winter. Gasoline use was down in the winter, but it rose in March and April. No "significant" traffic-safety effects were noted; lower speed limits and gasoline shortages were behind a drop in highway fatalities, it said. As for school children deaths, the number declined in January and February from a year earlier, with morning fatalities rising in February but early-evening school-children deaths declining.

On the other hand, daylight time was found to be generally unpopular during November-February. "It creates more (emotional) hardships than it's worth," a department spokesman said. The report concluded that a modified experiment next year is needed to better assess the effects of the act.

Submitted by Bob Foxworth

editor.. Alan Merriman
P. O. Box 8
Fairfax, Va. 22030

international dx digest

Phone 703 - 354 - 2135 before 2200 EDT * All Times GMT * Deadlines are Saturday

New stations, changes, skeds, etc.

AUSTRALIA Three new stations are on the air in West Australia. 6XM-1190, Exmouth with 2 kw, sign off at 1600. 6KN-760 Kununurra and 6WH-1020 Wyndham are both on with low power, 130 watts. Power of the last two will be increased at a later date. (NZDXRA)

BANGLADESH Due to a budget cut and construction delays the new 1000 kw transmitter is not finished yet. It is unknown at this time when it will go on the air. (NZDXRA)

BULGARIA The new station at Vidin is carrying the Radio Sofia 2nd Program. 0530-1630 on 575 khz; 1631-2130 on 1223 khz. (NZDXRA)

GABON A new station at Oyem is on the air on 548 khz. Power unknown. Sign on is at 0430. (WRB)

GUAM Far East Broadcasting Co. has applied for a new station on 940 khz at Agana, 10000 U1. * * New station at Agana on 720 khz granted KMAI. (Broadcasting)

GUYANA Action Radio, 560 khz, Georgetown is now signing on at 0812, ex 0843. (DSWCI)

HAWAII KIPA is now on 620 khz, ex 1110. (Broadcasting)

JORDAN Radio Amman is operating in Arabic on 800 khz, 200 kw from 0330 to 2300. English is on 854 khz, 10 kw 0500-0600, 1100-1230 and 1600-1730. (DSWCI)

KUWAIT Radio Kuwait has English on 1133 khz from 1700-2000. This station is now on until 2300 with non-stop music. (DSWCI)

LIECHTENSTEIN (Here we go again, folks! ED) Plans are afoot for a MW transmitter to be set up here to beam commercial programs to Germany. Power to be around 1200 kw, and the station has a potential audience of 15,000,000. A second smaller station may be set up to serve the principality only. (NZDXRA)

MOZAMBIQUE Emissora Regional de Vila Prey is now on 836 khz, ex 944 with 5 kw. Sked is 1600-2215. (WRB)

PARAGUAY The 100 kw transmitter of Radio Nacional on 920 khz has been on the air since 1/13/74. * * A new station is Radio Voz de la Cordillera, ZF28, Caacupe on 860 khz with programs in Spanish and Guarani. Sked unknown. (DSWCI)

QATAR The 750 kw transmitter is to be located at Al Arish on the Northern Coast and will use a 6 tower directional antenna to cover the Middle East. Frequency for this one will be 952 khz. (NZDXRA)

TANZANIA A new relay station at Arusha is on the air on either 1200 or 1214 khz with 50 kw. Is currently carrying a mixture of local and Dar es Salaam programming. (NZDXRA) Believe correct freq is 1214, but have seen both listed. (ED)

TURKEY The Istanbul First Program is now on 1016 khz with 1200 kw, ex 701. 701 now carries the Second Program. (NZDXRA) A good frequency, should be possible in the US. (ED)

INTERNATIONAL WATERS Radio Atlantis is now on 962 khz, currently with 3 kw, but will go to 50 kw in the future. * * Radio Mi Amigo on 1187 khz is heard in Europe with very strong signals and excellent modulation. 50 kw. Is currently the most popular station in the Benelux countries. (DSWCI)

04

And now, whats actually being heard. Unless noted, all reports are from Cesar Objio.

- 540 -NICARAGUA YNOR Radio Corporation, Managua w/sport rx at 0323 on 6/3, very good signal.
- 640 -COLOMBIA HJBJ La Voz de Santa Maria, Santa Maria w/Colombian pop mx, by looping R. Liberacion, Habana, at 0330 on 6/3.
- 650 -VENEZUELA Radio Vision, pop mx and ID at 0328 on 6/17 after a record, then another one. At first I thought it was Nanta, Ecuador, but mention of Venezuela led me to stay tuned til 0400 when s/off and at the end they said they were operating on 950 khs "para la zona metropolitana" and 650 "para para la zona central". At times, Emisoras Monserrate could be heard.
- 655 -EL SALVADOR YSS (Tentative) Station heard at 0335 w/Vivaldi's "The Four Seasons" quite probably Radio Nacional de El Salvador; correct DF.
- 700 -COSTA RICA THER Radio Roloj, San Jose, IDing at 0345 on 6/3 and orchestra mx after that.
- 720 -COLOMBIA HJAN Emisoras Unidas, Barranquilla s/off 0349 on 6/3 w/NA.
- 740 -VENEZUELA YVNC Radio Maracaibo, Maracaibo, elaying Radio Rumbos newsree "Noti-Rumbos" at 0351 on 6/3.
- 790 -COLOMBIA/CUBA/VENEZUELA Station s/off at 356 on 6/3 w/Columbian NA. Did not hear ID but I think it is Radio Quind, Medellin, despite being listed in WRTH as 24 hours. Two minutes later Venezuela, YVKC, Caracas, IDing and sayir good night for the evening. -MEXICO XEGZ Ciudad Lerdo, Durango, "La l. tera" 6/6 0250-0315 w/SS rock, ID w/jingle (identical package as IENFM-660) w/call and name, plus lots of voice IDs. Very hard w/XERFC w/baseball nd XENT w/easy listening, plus e. (Gleason)
- 870 -ECUADOR HCN2 Radio Cristal, Guayaquil, local ads and mx IDing at 0405 on 6/3. Heard Cuban NA at the same time und rneath.
- 890 -COLOMBIA HJCE La Voz de Bogota, Bogota, strong and clear ID at 0409 after R. Continental s/off. Pop mx.
- 910 -PUERTO RICO WPRP Radio Ponce, Ponce, IDing and s/off in SS and EE at 0405 on 6/3. After all this, "R. Aeropuerto de la hora", Maquetia, Venezuela.
- 940 -COLOMBIA HJGB Radio Eco, Cali "R. Eco esta en todas partes" at 0417 on 6/17. Pop mx.
- 995 -ECUADOR HCEW2 Radio Suceso, Guayaquil, IDing at 0418 on 6/3 w/clock fast, announcing "once y veinte minutos" (11:20), also frequency as 995. Not "La Voz del Suburbio" as seen somewhere else some time ago.
- 1005 -COLOMBIA HJDP Radio Colosal, Neiva w/ID at 0422 on 6/3 w/Todel slogan. Here for some time. A Mexican song after that.
- 1015 -PANAMA HOUA Radio Roloj, Panama, weak but a clear ID heard at 0423 on 6/3.
- 1020 -COLOMBIA Radio Pansema, Monteria, remote control from "XVI Feria Agropecuaria" in Monteria, w/pop orch mx, at 0440 on 6/17.
- 1030 -COLOMBIA HJER Radio Pacifico, Cali, ID at 0430 on 6/17, and starting network operation w/RCN and Radio Comercial Espanola.
- 1055 -COLOMBIA HJFZ La Voz del Centro, El Espinal, usually here, now w/a program of tangos at 0433 on 6/3. Very good signals.
- 1110 -PUERTO RICO WJFP Radio Aguas, Caguas, quite strong, ID at 0455 on 6/17 when listening to a clear talk between a man and woman through WBT Charlotte.
- 1130 -COLOMBIA HJAC Emisora Rio-Mar, Barranquilla s/off at 0500 on 6/17 w/NA.
- 1146.2 -HAITI 4WAB Radio Caraibes, Fort-au-Prince, w/Mexican ranchera, then FF at 0350 on 6/13.
- 1148.7 -COLOMBIA HJNH Ondas del Rio (La Voz de la Ciudad), Magangue, Departamento Bolivar, 5 kw, announces frequency as 1130. Station heard w/a complete ID at 0345 on 6/13. (Listed on 1150, ED)
- 1180 -BRAZIL ZYD65 Radio Globo, Rio de Janeiro, very good, usually heard here, now over a Colombian station w/tangos. At 0440 on 6/3.
- 1210 -COLOMBIA (Tentative) HJFF La Voz Amiga, Pereira. 6/6 0520. Not certain of this one. I definitely heard chimes on my tape; I noticed this station was reported to IRCA Foreign Log last year. The choral mx was there, too. Did not hear a definite ID. Tentative taped report out on this one. (Label)
- 1220 -COLOMBIA HJAV Radio Cordobesa, Monteria, ads for furniture, "Don Tres Esquinas", also announcing a party at "Club Monteria" in Feria Agropecuaria, same as Pansema (1020), but not parallel, at 0505 on 6/17.
- 1240 -BAHAMAS (Tentative) Station heard at 0510 on 6/17 w/electronic mx (Don't)

- 1240 -BAHAMAS (Don't) and male announcer talking w/strong Caribbean accent. Did not ID but it is almost certainly "The Voice of New Providence"; stronger on the longwire.
- 1474 -MEXICO XEDU Los Mochis, Min. Noted here 6/6, ex 1485 +. This seems to be a spur, and is very hard to read, but has good strength. (Gleason)

* * VERIFICATIONS * *

- 955 -QATAR Qatar Broadcasting Service, white printed full data card from Doha in 1 month air for 3 IRC's. (Calkin, Pakistan)
- 1124 -SPAIN Radio Espana de Barcelona, EAJ-15, friendly letter from Gonzalo Serraclara, Director in 1 year; 6 months after f/up with mint stamps, report and f/up both in Spanish. (Calkin, Spain)
- 1550 -TAIWAN AFMT Taipei, full data card in 3 months air via San Francisco APO address; mint US stamps sent. (Calkin, Pakistan)

The reporters for this issue

- Gregg CALKIN - Islamabad, Pakistan SP14, Space Magnet
- Dave GLEASON - Scottsdale, Arizona K390A/URR, Samserrino loop
- Albert LOBEL - El Cajon, California KX150A, Samserrino loop
- Cesar OBJIO - Santo Domingo, Dominican Republic Lafayette HES0, 4' loop, 150' IW Broadcasting - Broadcasting Magazine
- EDWCI - Danish Shortwave Club International
- NEZDIA - New Zealand DX Radio Association
- WRB - World Radio Bulletin

Our man in Tokyo, Lars Iyden, is returning to Sweden. As of August 1, his address will be Majvagen 6, 17540 Jarfalla, Sweden. All of Lars correspondents take note.

That's it. I hope to see some of you in Toledo, if the money holds out. Just bought a new car and am presently in the process of buying a condominium apartment and the old bankroll is vanishing quickly. Hope to have enough left to get to the Convention. 73 - DX - Report if you are hearing anything.

CLIPPING CORNER

The GAZETTE, Montreal, Thurs, July 4, 1974

47

France breaks up TV, radio networks into competing, state-run stations

PARIS -- (AP) -- Premier Jacques Chirac announced yesterday that the French government has decided to break up the national radio and television service into competing, independent units under state control.

Chirac addressed a news conference on the far-reaching reform proposals to be submitted to the National Assembly. The proposals were approved earlier at a cabinet meeting under President Valery Giscard d'Estaing.

Chirac said there was serious discussion of widespread demands for setting up private television channels. These demands ran into equally vigorous opposition from the Socialist-Communist alliance and from the Gaullist party which still holds a large part of Giscard d'Estaing's parliamentary majority.

"We discussed the proposals for private television very thoroughly and we decided to rule them out," Chirac said. "This is a fundamental political choice of the government."

He hinted that if the sweeping reform of the state-run radio and television service fails to produce results in cutting costs and improving programs, the government might take another look at the possibility of introducing private television in France.

The Office de Radio Television Francaise (ORTF) is to be abolished under the reform expected to go into effect early next year. The radio and each of the three existing television channels will be set up as "completely independent and competing national institutions," Chirac said.

STATE FINANCED

They will be financed by state funds, and the television tax is to be increased from the present \$24 a year to \$28 for black-and-white sets and \$40 for color sets.

In addition, the first and second television channels will continue to collect limited funds from short periods of advertising.

There will be no advertising on the radio, nor on the third television channel. Chirac said the third channel will be open to "free debate among all cultural, political and social groups" -- apparently the most previous criticism that the ORTF was weighted heavily in favor of the government viewpoint.

Chirac said the third channel also will specialize in films "as an encouragement to the French film industry."

A separate organization under state control will be formed to operate the technical apparatus of radio and television broadcasting.

"The keynote of the proposed reforms is competition and responsibility," Chirac said. The aim is to improve programs and put an end to the waste and inefficiency which has led the ORTF into a deficit so large that, even the government has been unable to determine the shortfall with precision, he added.

editor.. Wes Boyd
880 W. Liberty
Girard, Ohio 44420
WES BOYD 216-545-4543
JERRY STARR 216-534-1394

EA there FX people. Uncle Wesley and I have many things to tell you this evening, or whenever you find the time to read DDXD. And so, on to the specifics:

CHANGES FOR NRC LOG BOOKS:

1050 KMIS MO Net: A1
1170 WSNR GA Net: A1
CANADIAN ZIP CODES (from CGB)
560 WPNL BC PO Box 6130 V1J 4H8
560 CMA AB T5J 1Z7
600 CJOR BC V6Z 1N6
1240 CNAV BC V9Y 7N4-Nike!

One of these days, will one of our Canadian members explain what this system is really all about? Thank you.

- All June

1st TU: WIOS-1480 w/C&W mx (E)
2nd MM: WNYR-680 w/400 Hz TT, WTYM-1600 w/lk TT (HWB)
3rd MM: EXLR-1150 (KDF)
3rd TU: WART-1510 (KDF)
3rd TH: WJEM-1400 (KDF)
4th MM: WCCR-1580 w/lk TT (TRS), WCBG-1590 (BW), WLDY-1340 w/lk TT (HWB)
KAMA-1060 w/400 Hz TT (HWB, TRS, JS)
4th WE: WCCR-1480 w/lk TT (HWB), WLMS-1270 w/DT, KHAK-1300 w/lk TT (JS)
4th TH: KGRJ-1430 w/lk TT (HWB)
Last MM: WJDY-1470 w/lk TT (TRS)

NOT HEARDS: 4th MM: WMOC-1450, KHEY-690, WFLN-900, WNAK-730, KPUR-1440
WSRC-1410, WCVS-1450 (JS)
3rd TU: KFGO-790, heard 3rd MM 0230-0245 (HWB)
4th TH: WJFC-1480 (HWB)

Before we proceed any further, we might remind you that if you may not see some of your contributions in DDXD, we have deleted any DX over one month old at our deadline here at DDXD HQ. In the summer with wide separations in publication skeds, this will happen from time to time. Or maybe it's because we don't like you. Pick one. (JS)

sunset & evening

850 WKBZ MI 6/24 s/on w/choral group sounding hymn-like 0529 (FM)
900 KHOZ AR 6/23 s/off 2129 o/guitar mx w/FM promo (JAC) Could you please double-space John? (JS)
WCOR TN 6/29 weak w/2100 s/off thru WFAI which continued thru nx headlines and Faith Baptist Temple commercial (JAC) OK.
940 WECO TN 6/19 s/off o/WPCP 2057 into schmaltzy vocal, then off (BW)
WCPC MS 6/2 regular here w/ s/off 2108-2115, CP for nites still not on (BW) Who cares? (JS)
950 KLIK MO 6/23 ID and local BB game 2130, still on day pattern (JAC)
WRMA AL 6/23 dominant N/S an new night pattern 2145 w/jock talking of "Dy-no-mite Sunday Night" 2130 had Ae nx, log sez A1 (JAC) We're having a bit of a problem reading your hand, John, and your writing for that matter (JS)
970 WATH OH 6/7 w/Top 40 2049, ID 2051 and slow ID 2054, station #500 (BW)
1000 WVVO AL 6/25 smearing freak 2053 w/promo for BB game featuring "WVOV Sweatsox", many IDs to 2100 s/off (BW) Now that's really in poor taste (JS)

1110 CFTJ ON 6/17 still on this freq, on top 2045 w/MoR thru 2059 s/off, no GSQ or suchlike, gave s/on as 0600, has CP for 1320 full time (JS) Who cares? (JS)
WBCA AL 6/10 weak w/C&W mx 2055, s/off 2100, no SSB (KJ)
WKDZ KY 6/10 fair w/ s/off 2115, had FM plug and SSB w/o WBT (KJ)
WKRA MS 6/10 u/WKDZ then alone after KDZ s/off, spot for local utility 2116, s/off 2117, no SSB but long instrumental fill, WBT very weak (KJ) This one's a killer here at SS (JS)
1140 WCLW OH 6/10 finally heard o/WRVA w/contest promo 2035 (BW) 8151 (JS)
1190 WAMB TN 6/13 up and down (Watch it-JS) w/WOVO 2050-2058 s/off SSB (BW)
WPUF MS 6/17 strong w/ s/off 2058 in WOWO null asking for comments on programming, etc, SSB, now on RS (BW)
1220 WCPH TN 6/2 w/mx 2049 thru 2100 s/off w/SSB (BW)
1250 WTMA SC 6/22 w/RR, beer spot 2147, gone 2150 (KJ) I had a beer spot on my pants but it washed out. Think I used that one before
1260 WWOK FL 6/21 strong w/C&W 2110-2120, well o/WNDE/WIBV, ad (JS) for Kennedy & Cohen 2118 (KJ)
1280 WANS SC 6/26 w/ads and RR o/u WKST 2047 (BW)
1310 WNAE PA 6/17 rare visit atop usual WFAH 1930-1950+ (JS)
1360 WBLC TN 6/18 strong o/jumble 2059 s/off, used vocal "Dixie" to 2100 carrier cut (BW) Excitement!!! (JS)
WMOV WV 6/18 s/off 2100 after WBLC s/off (BW) 827 (JS)
1370 WREE VA 6/23 s/off 2045 w/vocal "This Was My Country" (BW)
1390 WFMJ OH 6/23 showed up w/wx/mx 2045-2100, first time logged here, Ohio #50, Youngstown #3 (BW) 835, big deal (JS)
1490 WMRC MA 6/23 atop WGCH momentarily 2054 w/jingle & Milford mentions f/wx (Foxy)
1540 WJTT TN 6/24 faded up for s/off 2058 w/SSB killing freak, un-id SSB later (BW)
1550 WSAO MS 6/23 very strong to 2130 s/off after The Still and No, gave 0545 local s/on time, had vocal tune about the day ending and whaddaya know, the day ended (JAC) Get wise John (JS)
+1550 WOKI TN 6/23 after WSAO gone, heard 2114, address as 125 Randolph Road, little late for them, must be confuded with new license (JAC) If he veries, let me know (JS)
1560 WTOP CONVENTIONTOWN 6/23 o/WQXR w/C&W 2108-2114 s/off-UGHO (BW) What does that mean? Better not be dirty! (JS)
1570 WFLR NY 6/19 s/off 2045 w/FM mention following WPGM/WQTW s/off (TRS)
WPTW OH 6/24 faded up for s/off 2113 and SSB (BW)
WTRB TN 6/24 dominant w/nx/sports/wx/ads 2109-2111 then kaflooy (BW)
WILO IN 6/24 loud for 2115 s/off, unneeded (BW) You sure are! (JS)
1580 WMTL NY 6/29 ID on top 2108, then Top 40 mx and fade out, heard again 2114 s/off w/FM promo (BW)
WAMW IN 6/29 s/off 2115 after WMTL off, no SSB, unneeded (BW)
1590 WGGO NY 6/17 smashing semi-local WAKR 2035-2045+ (JS)
midnight to sunrise
740 WELI FL 6/1 w/Top 40 mx, fair w/KRMG 0240-0250 f/o (JF)
790 KFGO ND 6/10 poor u/WTAR/WQXI/WAKY/CKLW slop 0229-0245, much lk TT and few announcements, testing AXR for freq (HWB)
850 WKBZ MI 6/24 s/on w/choral group sounding hymn-like 0529 (FM)
HUEZAH!!! NY wife just arrived with the BEER!! (JS) -Ditt's HBS
930 WLLI VA 6/3 poor 0101 w/ID in ET (KDF)
940 WYAD IL 6/24 s/on 0630 per log (JAC)
940 WCPC MS 6/29 s/on 0647 and quickly to country (JAC)
+940 KIOA IA 7/1 still in RS 0315-0415+, NSP now? (JS)
+940 CKWS IN 7/1 w/RS RR 0410+, Log change, NSP? (JS) Yes (JS)
1060 KAMA TX 6/24 FC/TT 0200-0205 s/off w/ID, very noisy, noted weak TT starting on 690 following KAMA s/off but Cuban and WLW slop made copy impossible, probably KHEY FC (TRS) KHEY not heard here 6/24, tho usually is, strange conditions (JS)
1070 WINA VA 6/17 well o/KNX w/mx/tele-talk 0400-0415+, WIBC off (HWB)
1090 WNNH OH 6/18 on ET w/mx, ID 0028 (KJ)



1100 WHLI NY 6/3 ET/TT/OC 0020 tune in-thru WWWE s/off 0055, WHIL ID 0100 (TRS)

1190 WAMB TN 6/10 another ET w/dixieland stuff 0245-0305+, ID 0300 (HWB)

1230 WKYG WV 6/20 0307-0329 w/ABC News program, AM-FM ID 0330, then C&W music (HWB)

WSAL IN 6/6 heard w/Cubs BB 0059 (KDF)

WKBO PA 6/17 ID and TC out of jumble 0138 (TRS) Who's that? (JS)

WITH MD 6/17 end of PSA and ID 0146, new despite closeness (TRS)

WERI RI 6/20 partial ID 0103 in pause of BB, ID 0125, also 6/21 at 0100 for AM-FM ID (TRS)

WENY NY 6/21 ID 0030 into local nx, then mx 0035 (TRS)

CHVD PQ good here some SU morns, continuous mx, sounds automated, I think this one runs day pattern weekends fxwh (Foxy)

WNEB MA regular s/off 0006 w/SSB after CBS Nx fxwh (Foxy) Log now sez0000 s/off, change (JS)

CKLD PQ is part of AN Net w/CFDA-1380/CKFL-1400, etc "en ondes 24 heuer par jour" heard often w/distinctive jingle fxwh (Foxy)

+1240 WGVA NY 7/1 s/on w/SSB 0500 and "I Am Your Flag", log change (JS)

WSFC KY 6/9 floated atop for ID 0429 o/several others (TRS)'Nother Log change, AN? (JS)

WINN KY 6/10 surfaced for ID 0200 o/normally loud WROV, another ID, TC/WX 0257 (TRS)

WSSV VA 6/24 MBS Nx 0130-0135, ID, local nx, poor w/WROV (TRS)

WTAX IL 6/17 s/off 0106, even w/WEDC (KDF)

WCOU ME 6/3 in well from WGBB s/off 0106 for PoP thru 0135, gal announcer "Dixie" and is C&W, has wx from Portland Nx Office on half-hour, lots of WCOU-FM-94 mentions too (Foxy) This answers my question about WGBB from last issue (JS)

WSNY NY 6/2 atop 0030 w/ID/TC, into nx (TRS)

+ WJNC NC 6/2 ID/TC 0100 and DJ saying he would be around to 0300, excellent signal for next hour, sked change (TRS)

1250 WXOX MI 6/24 s/on 0559 w/SSB, then nx heads and plethora of spots before 0605 (JS)

Unid ?? 6/24 end of ET announcement 0219 giving RS to begin 0430, listened 0430 and 0530 but nothing heard (JS)

+ CKJD ON 6/24 s/on w/Oh Canada 0532, log change, was NSP (JS)

*1260 WBBK GA 6/21 ET/FC noted 0115, end 0136, DT and ID 0115 & 0135, FC list sez 0100-0115 (KJ)

+1280 WKST PA 6/24 s/on 0543 w/SSB, announcement before SSB, then into "Hour of Deliverance" hocus-pocus pseudo-religious program w/usual money grab, log change, sez 0630 s/on (JS)

+1290 WFBG PA 6/18 ET/TT/OC 0235-0245+, ID 0239, log change, was AN-6 (JS)

1300 WHIO OH 6/3 ET/TT/OC noted 0220-0233ID, thru CJBK (TRS)

WERE OH 6/3 ET/TT/OC 0220, ID 0243 (TRS) 8391 (JS)

KXXO OK 6/17 heard 0113 w/ID, mostly e-z listening mx (KDF) (ex-KCNW)

KHAC AZ 6/26 FC/TT noted 0233-0244 off, weak u/mess but readable, actually peaked on top for a few seconds, one of my all-time best, AZ #9 (JS)

+1310 WCAM NJ 6/2 sked seems to be 24-hours, SP: SM, hours unknown (TRS)

+1340 WKEE WV was to go AN-6 w/MM SP 0005-0500 about 7/1 per PD (HWB)

WGAW MA 6/19 w/Sox BB game 0156-0202 s/off w/SSB, also heard 6/10 w/normal 2359 s/off after MBS Nx,fxwh (Foxy)

WALL NY 6/11 heard w/nx 0001 after WGAW s/off, fair, fxwh (Foxy)

WTWN VT 6/5 heard to 0025 end of Sox coast game, then bits of CBS Nx, followed by many local items to late 0037 s/off w/SSB, was atop much of the time, fxwh (Foxy)

WENT NY 6/7 on late w/Yankees BB 0031-0052, clear ID taped fxwh (Foxy)

CJLS NS heard s/off 0011 in April, when Canada EST, likely 2311 now

WGNi NC 6/20 ID picked out 0001, very poor (TRS) (Foxy)

WHAP VA 6/20 noted s/off 0006, announced s/on 0600, good w/WHAT null'd, log change (TRS)

WMBO NY 6/20 ID 0030 into sports w/announcer Rick Shaw o/u unid Redsox BB in WHAT null (TRS) Very original name, unlike Maurice and his Magic Meatwand (JS)

+1350 WZIX PA 6/2 noted in RS 0138 w/ID and TC, sked change, extent of which is unknown (TRS)

+1380 CKLC ON 7/1 in RS w/ C&W 0510, assume 0500 s/on as not noted 0457, Log sez 0530 s/on now, obvious log change (JS)

* WMEE IN 7/1 ET/OC/TT/MX/jingles 0410-0530+, log sez NSP (JS)

+1400 WSGA GA 6/10 ID 0309 in contest promo, floated o/WKBT and etc (TRS)

WCOS SC 6/10 ID and TC 0428, then jingle and RR mx, only in for about 30 seconds, but loud then (TRS)

WVOC VA 6/2 noted s/off 0000, announcing 0600 s/on, ditto 6/3, log change, was NSP, good riddance to a pest (TRS) sic (JS)

WKPT TN/WJET PA 6/10 ID and promo for Big Al Knight 0154, Cash Call promo w/ID 0209, ID 0230, 0252, latter mentioning 50KW FM, hard to distinguish these phonetically but ID/TC 0338 from WJET quite good (TRS) Well, Big AL and Cash Call are WJET, since they have no FM, that might be WKPT (JS)

+ WIEL KY 6/18 w/ABC Nx 0200, then s/off w/SSB (KDF) Log change, was off at 0000 (JS)

+ WALE MA occasionally heard at 0011 MM s/off (Foxy) Log change

WHMP MA occasionally heard weekdays at 0014 s/off, AM-FM IDs and local nx (Foxy)

+ WLLH MA still dominant here w/AN show weekdays but not MMs (Foxy)

WILI CT 6/13 w/ s/off 0200 after ABC Nx, poor, dunno if always on this late (Foxy) Dunno either (JS)

1450 WILM DE 6/29 on top w/ RR 0325-0335+ (JS) what else iz new???-HWB

WHLS MI 6/24 noted ANing 0300+..sure seems NSP now (JS)

WSNO VT 6/20 finally clear at 0015 s/off w/ SSB. Occasionally heard & always at 0015. Heavy WWSC QRM (FOXY)

WISA VT 6/20 noted 2358 w/ "Deborah" reading nx,UPI nx 0000 and off at 004½ (Foxy)

WWSC NY 6/20 is AN tele-talk--#793-7300 & 793-4445 mentioned often. Pest AN here & plays mx when no calls come in (Foxy)

WENZ VA 6/17 ID-TC 0145,promo on 24 hr. nx/sx coverage. Another ID at 0214 o/ WILM who had 0200 s/on. Think WILM now is silent MMs 0000-0200 (TRS)

+ WFBS NC 6/17 s/on 0400 w/ annct. as 24 hrs. thus is MM SP till 0400.

WKXL NH 6/8 hrd. AM-FM calls 0135 but dunno if always on this late.

CJOY ON 6/24 ID 0227 on OC ET o/ WAXC-WOKO etc. (HWB) (Foxy)

1460 WBRN MI 6/10 emerg. bdcst. 0134-0202 off. Had local tornados & such but was mostly instr. mx. Gave AM-FM IDs (HWB)

1480 CHAC PQ 6/3 noted this in mess w/ FF 0003 (JP)

1490 UNid 6/24 continuous 1K TT from 0235 t/in to 0305. Was possible ID then but not readable u/ semi-local WBCB (TRS)

UNid Who has AN show Sat nite/Sun AM w/ the "Jim Road Night Flight" from 0000 till 0800 w/ RR (Foxy)

CHYM ON 7/1 making a rare appearance 0435-0444+ & on top (JS) So ??-HWB

WTVL ME 6/18 on till 0159 & hrd. 1-2 times a week here. Normal s/off is 0011 w/ LP after local wx. Has stated on late w/ Boston BB night/coast games (Foxy) Log even have regular s/off wrong-HWB

WVEC VA is AN w/ schmalz music--WVEC & WVHR FM IDs fxwh. (Foxy)

+ WHAV MA 6/3 good copy at 2359 s/off w/ AM-FM mentions (Foxy)

WPOR ME 6/2 Off RS for ET, ID taped 0154, rare for ETs, strong (Foxy)

+ WEMJ NH Hrd. often at 0007 s/off & to return 0528, & off w/ a brassy fanfare. Often on late w/ Red Sox BB..on till 0126 on 6/8. Is sometimes AN (Foxy)

WXTL MA 6/7 logged at 0100 s/off..."Radio station 15-X, also known as radio station WXTL.....". Uses 15-X as call in all but legal IDs. Mentions 1K DA-D w/ N-S ant. Has underground mx after Ac nx, & Hendrix version of SSB--Farout (Foxy) 827---HWB

WIKE VT 6/8 Hrd. 0128 after Red Sox BB ran late due to a fire in the stands (Foxy)

+ WARK MD 6/21 s/off 0106 w/out SSB..following nx & just ahead of WGAL s/off w/ WBCB in partial null (TRS)

1500 WDEN GA 6/10 Another infamous C&W ET-TT-OC-etc. 0305-0310+ (HWB)

- 1530 KPCR MO 6/24 Strong ET-TT-OC 0220-0234+ (JS)
 WTTI GA 6/17 On ET w/ RR 0220..all alone...good conditions (FM)
 + WCKY OH 7/1 Another SP change, MM s/on now 0430 (JS)
 1540 KXEL IA 6/26 Distorted but S-9+ spurs from this on 1525 & 1555. Were louder than sig. on 1540 & gone at end of taped pgm. at 0220. Evidently hi-freq. audio component on tape caused spurs (JS)
 1550 WTTT PA 6/24 ET-TT-OC 0000-0026 (JS)
 WNTN MA 6/24 On ET, loud, ended 0115 (JS)
 WCTW IN 6/1 Good o/u KKJO w/ C&W 0345-0400. Log sez off 2215, change? (JF) That might not be a bad idea -- HWB
 UN1d 6/18 ET-TT-OC-noted 0139-0235+..all TT was 1K, some mx was hrd after 0227, weak, no IDs hrd.--HELP!!! (JS)
 1560 WDXR KY 6/24 ET w/ old DOORS album on day pattern/power 0110-off 0130 w/ anct. of ET,regular s/off anct. & SSB. Said had been on ET since midnight (JS)
 1570 WBUX PA 6/24 s/on for ET 0010 per anct. then TT (TRS)
 1580 WHEX PA 6/2 t/in 0205 w/ RR, ID as ending ET 0212 (TRS)
 WCLS GA 6/24 hrd. s/off 0026 mentioned visitors welcome to tour (BW)
 KLOU LA 6/24 Good u/ & sometimes // WCLS 0019-0027 (BW)
 1590 WGOE VA 6/24 ET/MK 0034-0050+. Has a listed f/c 4th. MM 0045 (JS)
 WCBG PA 6/24 RC/TT covering semi-local WAKR 0001-0014 (JS)
 1600 WTYM MA 6/10 Had 1K TT 0213-0214 1/2 ID as f/c & off. Called & anncr. put back on air for me to tape ID at 0216. This f/c is to run 1st. MM,per station,at 0200. Not hrd. 7/1 but 6/10 was 2nd. MM (HWB)

And so dear domestic wierdos we come to the close of this portion of a summer issue of DDXD. We realize we asked for support last time but somehow a 6 page DDXD just isn't supposed to happen in summer. Thanks 4 da support. changes

First the CRTC changes....Recent applications for new stations (FF) at Rimouski,PQ--Both DENIED! Seems CBC plans FF outlet here w/ full network service.

Elsewhere in CRTC land::

- 790 CHIC ON granted power of 5,000 watts day & night (Assume still U-4)
 920 CJCJ NB granted powers of 10,000 day & 1,000 night U-4
 1230 CBON PQ granted a move here from present operation on 1340..still U-1
 An application up for hearing is an EE station in Calgary,AB on 1280 w/ 10,000 10,000 U-3..

*****And now weze gotta whole buncha U.S. changes for youse guys*****

- 540 WETC NC Install new xmtr.
 590 KCSJ CO granted move of xmtr./ant./studios
 650 KYAK AK requests to install old Western Electric 1Kw rig as aux. xmtr.
 670 KPUA HI granted move here...ex 970
 710 WOR NY requests to install aux. ant.
 WKJB PR granted power of 5,000 wt days
 740 WVCH PA requests move of xmtr./ant.
 750 KXL OR requests move xmtr./ant./studios.
 900 KEYN KS requests KBUL, and/or KGNE
 910 KCJB ND requests changes in daytime antenna pattern
 920 WOKY WI move studios/xmtr. to 12100 W. Howard Av.,Greenfield,WI.
 940 WMIX IL requests to add 500 wt. DA-for nites (5,000 500 U-4)...
 970 KTAP TX granted change of call to KIXL
 1010 KIQI CA install new main transmitter requested.
 1060 KGFY SD requests nite operation w/ 1Kw DA (10,000 1,000 U-4)
 KHVM TX requests to install new main xmtr.
 1070 **** NY Sandy Creek/Pulaski GRANTED 1K-D..box 158, 9190 Main Street, Sandy Creek-13145----- also this requests call WSCP
 1080 WBIE GA requests call of WCOB
 **** AK Anchorage...new CP..granted call KANC
 1090 WMMN OH requests call WFKI
 WWSD FL requests call WTBJ
 1110 ---- AR FCC denied application for station at Dermott--Final Denial.
 1130 KESI IA seeks move studios/xmtr. to 123 S. Jefferson
 KWBY TX modify applic. & drop to 5KW days,avoid KWKH interference

WKYG 1230
 AM & FM RADIO
 Community Broadcasting Services, Inc.
 P. O. Box 368, Parkersburg, W. Va. 26101

- 1170 WVLC MS granted change in height of one tower in DA
 1190 WAWS FL granted move of studios to 1881 NE 26th St,Wilton Manors,Fl.
 **** FL Pine Castle/Sky Lake--seeks call WHHL
 1230 WMPC MI requests move of ant/xmtr.
 ---- TN White Pine..application for 250 250 U-1 here...
 1240 KCYN AZ granted specified hours...6AM to 8PM local time.
 1270 WVOY MI requests move of studios to 211 Bridge St.
 KWRL NV Change address to 30 Court St.,Reno,NV.
 1300 WLOT WI granted IDs as Marinette/Menominee (Menominee,Mich.)
 1310 WISE NC requests new xmtr. for Aux/Alternate days & main at night
 1340 WEXL MI reduce height of #1 tower in day DA
 1350 WEGA PR requests unlimited operation
 **** MI Gladwin--requests WJEB
 1360 WKYO MI seeks new tower---AND was granted 1,000 watts daytime PLUS night operation w/ 500 watts DA
 1380 KWK MO Someone applies for deleted facilities here (St. Louis,Mo.)
 WGSSE NC granted move of xmtr. site & install taller tower.
 **** AZ Parker--Granted 1,000 watts ND-D & requests call KZUL
 WLRV VA requests move of xmtr. site.
 1400 KRUN TX requests change from specified hours to unlimited hours.
 KTPT CA granted increase to 1,000 watts days.
 WNAG MS granted permission to install new aux. xmtr. Director of Programming
 1410 WRCK AL granted call of WZZA..
 1430 **** KY Buffalo..granted call WLCB..
 WRSB FL granted call of WODI..
 1440 WJAB ME seeks to move xmtr. site.
 1450 KVML CA Granted move of Ant./xmtr./studios to Johnny Avenue.
 KLAM AK granted change of specified hours..(These are in ALT)..... Weekdays & Sat. 0730 AM to 1200 PLUS 1700 to 2200.. (Sun. too) Sunday May-1st, to Nov. 15th yearly this sked applies..However Nov. 16th to April 30th. yearly sked is 0730-0930 & 1700-2200,
 1470 KWIV WY address is 102 N. 3rd. St.
 1480 WVCF FL requests move of studios/xmtr....install taller tower...and to change city of license to Ocoee,Fl.
 1490 **** CA Requests 250 250 U-1 here
 WSIR FL seeks power of 1,000 watts days.
 KTOP KS seeks to install taller tower.
 KVOZ TX seeks new antenna system.
 KEDI CO seeks call of KIIQ..
 **** FL Milton CP granted call of WCKC.
 1500 WBFN MS seeks to increase tower height.
 1520 WCSV TN requests move from here to 1490 w/ 250 250 U-1..Also requests daytime power of 1,000 wt. but dunno if for 1520 or 1490.....
 1530 KWLA LA seeks move to 1400 w/ 1,000 250 U-1.
 WITI GA granted permission to delete CH facilities..
 1550 WPXY NC requests call of WGNL.
 KLFJ MO requests move ant./xmtr./studios to Landers Building, 149 Park Center Square.
 1560 **** GA Application for Ellijay on 1530 requests move here from 1530.
 1590 **** AL Alexander City application requests 1,000 Days here.
 WSIZ MD granted CP for change in day DA pattern.

WNEW
 METROMEDIA RADIO

WXVW

THE AMERICAN INFORMATION NETWORK
 P. O. BOX 666
 JEFFERSONVILLE, INDIANA 47130

And finally these stations were granted permission to operate on changed facilities, and are on the air.

600 WICC CT	1000 WHTH OH	1240 WALO PR	1300 WMVO OH
990 WITZ IN	1190 KADE CO	1280 WTTX VA	1480 KPEX AZ

Got the following bit of info from BW today & too late for sections in this issue so I'll fill here w/ them. He hold WDEM 1500 7/1 on ET 0022 w/ mx & AM-FM IDs. Also hrd. WEED 1390 w/ possible early f/c 7/1--1st. MM... Had TT w/ IDs o/ TT between 0024 & 0030+. So there gang, thats allow it !!

CLOSING COMMENTZ:

Hello, folk, Dr, Jerry here with a special announcement: To all of the faithful DDXD contributors who will be attending the TOLEDOCONVENTION!! Wes and I will be hosting a special DDXD event at the Convention open only to the DDXD faithful. More news later. Kinda our way to say thanks for your support. Remember, this will be for DDXD contributors only. That will teach all you non-contributors. So there!!! Prepare to experience the Great DDXD Mindmelt and other diversions. Prepare! WHAT WILL YOU DO WHEN YOUR LABEL COMES OFF, AND THE PLASTIC'S ALL MELTED AND THE CHROME IS TOO SOFT. WHAT WOULD YOU DO IF THE PEOPLE YOU KNEW, WERE THE PLASTIC THAT MELTED, AND THE CHROMIUM, TOO. WHO ARE THE BRAIN POLICE?

And, now, Uncle Wessley will transcribe and otherwise commit to paper the names of those who contributed to this latest DDXD epoch. (JS)

CGB Gord Bailey ...CJSL Estevan,Sask.--News Dept.--SW 500 & LW
 DE Don Eggert.....Bowling Green,Ky. HQ-180 & 2 ft. loop
 JF Jeff Falconer.,Clinton,Ont. Kenwood 9R-59DS & SM-1
 FOXY Boob Foxworth.,New York,N.Y.--HQ-150 3 ft. Altaz.--GPR 90 & LW
 KDF Karl de 4th. Villa Park,Ill. HQ 160..SM-1..100ft. LW
 KJ Karl Jetter Carrollton,Ga. DX 120--LW--SM2
 JS Jerky Starr Hubbard,Oh. HQ 180--4ft. semi-loop.
 TRS Tom Sundstrom Willingboro,N.J. HQ 150 SM-2, DX 150/HQ 819 & LW
 BW Big Wink(elman) Man,WV Allied A-2515 & SM-1
 FM Frank Merrill Toledo,Oh (Dull City) equipment of some type in use.
 JAC John Callarman Mt. Vernon,Il. HQ-180 & SM-1 (Think I've hoid the name somewhere but not sure where, maybe Crystal Beach ??---HWB)

If I left anyone out they deserved it!! 831!!

SEE YOU'NZE ALL IN TOLEDO!!!

Bye Bye group,
 FRICK & FRACK
 Frick & Fanork esq.

O.K. by NRE Censor G.J.F.

Verie from Gregg Calkin, Islamabad, Pakistan

STATE OF QATAR	دولة قطر
MINISTRY OF INFORMATION	وزارة الاعلام
QATAR BROADCASTING SERVICE	اذاعة قطر
DOHA : 6-5-1974	
Your reception report dated	Apr. 5 1974
Frequency : 99.5 KHz	
Date :	
Time : 1555 GMT	
We thank you for the Broadcasting reception report and are glad to confirm it.	
regret that we cannot confirm it.	
Hoping to hear from you in future.	
With regards,	
	M. Shahid DEPUTY DIRECTOR

DXCHANGE

Editor: Bob Spearel
 5450 Pine St.
 Seffner, Fl. 33584
 Ph. 813-685-4984

With this first edition of DXchange we begin what we hope will be a useful service to the club membership. Plans are to make this a monthly column, but this will depend entirely on your support. The only restriction we place on items to be listed in the column is that they pertain to DXing or radio electronics in some way. Comments on this restriction are welcome. We also ask that when sending items to be listed, you state whether or not postage is included in the price. When not stated, it will be assumed that it is not included and prices on such items will be marked with an asterisk.

FOR SALE

RECEIVERS

HQ 105TR .54-30 Mc, new in original carton, used only on field trip to the North Pole. (DT)

Sony AM-SW Miniature (4.5-12 Mc), like new, the size of a deck of cards, exceptionally sensitive. \$20.00* (WM)

Sony AM-FM Sub miniature, size of a pack of cigarettes, like new, sensitive, excellent tone, w/ earphone. \$20.00* (WM)

1938 Scott Philharmonic 32 tube antique, chrome plated masterpiece, 2 stages RF, separate oscillator and mixer, 4 stages IF, expander, 20 watt output from 4 6L6s, spare tubes, coverage 120 Kc-50 Mc. To anyone near Boston. \$50.00 (WM)

Heathkit GR-54 5 band gen.cov. (200Kc-30Mc) AM, CW, USB & LSB, ant. trim, automatic noise limiter, S meter, separate RF & AF gain. Prefer to TRADE. (MH)

Hammarlund HR 10 Portable receiver. \$20.00* (EJ)

2 CB (walkie talkies?ed.) 3 watt, 3 crystals; 1 watt, 3 crystals, both perfect. \$65.00* (WM)

HQ 145 Gen.cov. Xtal filter, slot filter, ANL, S meter, w/ clock. \$100.00* (RS)

ACCESSORIES

CW & Voice Filter Navy, connect at speaker, headphone output, heavy duty, great for eliminating static & lightning crashing on AM band, plugs are included, ready to go. Prefer to trade. (MH)

Two 12V DC Power Supplies Well filtered, great for tape player, car radio, antenna amp., many uses. Prefer to trade. (MH)

Norelco Tape Recorder 3"-5" reels, battery operated. \$15.00* (WM)

Geloso Tape Recorder 3"-4 1/2" reels, AC operated. \$15.00* (WM)

Stereo Headphones 4 pairs. \$10.00* apiece. (WM)

Heathkit Q Multiplier \$25.00* (WM)

Ameco AM-CB Converter For auto radio, converts AM Rx to CB Rx. \$17.50* (RJE)

Ferrite 6' Loaded Combi-BCB-CB Auto Antenna White plastic coated, comes with one length of cable. Best offer (RJE)

2 8" Riverside Midrange Speakers In bookshelf wood cabinets w/ grillecloth, 8 ohm, 20 watt/channel peak. \$20.00* each or two for \$35.00*

1 8" Speaker In plastic covered wood cabinet, 16 ohms, about 20 watts. \$15.00* (RJE)

Autek Q-Box Audio filter. \$15.00* (EJ)

TEST EQUIPMENT

Lafayette SWR & FS Meter New. \$10.00* (WM)

Lafayette Signal Generator Like new. \$20.00* (WM)

Lafayette Tube Tester Like new, tests all tube socket types. \$15.00* (WM)

Mutual Conductance Tube Tester Tests octal socket tubes. \$ 5.00* (WM)

MISCELLANEOUS

DX NEWS, Old Volumes Vol. 33 (1965-6), 34 (1966-7), 35 (1967-8), 36 (1968-9), 37 (1969-70), and 38 (1970-1). Prefer to sell entire lot and not by single volume. \$1.00 ea. plus shipping. (SS)

IRCA Bulletins For this year, free for pickup or postage. (DT)

P.M.B. Hand Held Movie Projector New. \$5.00* (WM)

Paillard Bolex 8 mm Movie Camera With 6 lenses of various focal lengths and case, one is F1.2, others WA & telephoto. \$25.00* (WM)

20 X 70 Astronomical Binoculars Perfect. \$35.00* (WM)

WANTED

Variable Capacitor J.W. Miller #2110 10-130 pf, 10-78 pf, dual gang. (MB)

BCB Loop Antenna (MH)

SM-1 or SM-2 Antenna (MH)

BC-453 Low frequency receiver, 190-500 Kc. (MH)

Preselector (MH)

Oscilloscope (MH)

Six Meter Antenna (MH)

FM Detector for Super-Pro SP-600 JX (MH)

ADDRESSES

MB Mike Beckett; 1001 Univ. 624B College Inn; Lubbock, Tx. 79401

RJE R.J. Edmunds; PO Box 127; Boonton, N.J. 07005

MH Mike Heppe; Box 7; Houston, Ms. 38851 Ph. 601-456-4364

EJ Earl R. Jessee; 1815 Sweetwater Rd.; SP120; Spring Valley, Ca. 92077

WM William F. Murphy, M.D.; 1 Concord Rd; Lincoln, Ma. 01773

RS Ye editor, address above.

SS Sid Steele; 2408 4th St.; Charleston, IL. 61920 217-348-5779

DT David F. Thomas; PO Box 11531; Tampa, FL. 33610

THE CPC DILEMMA: A HUMAN ENERGY SHORTAGE

In looking back at the past DX season, one very obvious fact comes to mind. The activity of the Courtesy Programs Committee (CPC) of the National Radio Club has deteriorated to an all-time low. During the 1973-74 Season, only 20 stations conducted DX Test broadcasts for the club.

In this day, when DXers are plagued by an ever-increasing number of NSPers and a diminishing list of frequency checks, DX Tests offer the best opportunity to log those much-wanted stations.

In past years, the CPC has always been a highly active part of the NRC. During the 1950s it was not unusual to see 10 or more DX Programs on a single Monday morning! During the 1955-56 DX Season, 136 DX Tests were aired for the NRC as a result of CPC activity. This was followed by 125 during the 1956-57 Season.

In the 1950s the Club's membership totaled half of what it does today, yet the CPC activity resulted in six times as many DX Tests. It was the work of such outstanding DXers as Len Kruse, Sid Rosenbaum, Fran and Bill Nittler, Bill Stone and Stan Morss that made the Courtesy Programs Committee so successful. In recent years this work has been carried on by Wes Boyd and Jerry Starr. However, with Wes and Jerry now handling the Domestic DX Digest, we certainly can't expect them to carry the whole CPC load.

In looking at the CPC problem objectively, it appears that there are two primary factors to which the lack of DX Tests can be attributed:

1. A general apathy on the part of a significant portion of our club's membership.
2. A decreasing interest in our hobby on the part of broadcasting personnel.

In looking at those members who regularly contribute to the Musings, Domestic DX Digest, or Foreign DX Sections of DX NEWS or those who periodically submit technical articles, we see the participation of only a small portion of our total membership. Obviously, the majority of the members are apathetic toward the NRC. I am not including those members such as students who are not actively DXing at present but choose to retain their membership. Rather, I am referring to those individuals who spend a great amount of time DXing but do not report to the bulletin, let alone participate with the CPC. In effect, they are reaping the benefits of the club without contributing anything to it.

In addition to apathy on the part of DXers, we find a declining interest in our hobby on the part of broadcasters. I think we, as members of the DXing fraternity should examine this problem closely. Have we alienated chief engineers by the use of demanding, improper or discourteous correspondence? With the de-emphasis of collecting verifications, have organized DXers lost contact with the broadcasting industry? Perhaps what is needed is the creation of some goodwill by DXers. The Courtesy Programs Committee is certainly one avenue for doing this.

As we enter the summer months, most of us leave the dials with the oncoming of static. The extra time now available provides an excellent opportunity to participate in the CPC program. Personally, I type all of my CPC request letters during the summer and then send them out to the respective stations approximately eight weeks prior to the proposed test date. Many of us will be traveling around the country on vacations this summer, and what better way to arrange a DX Test for next season than by a personal visit. This can also be done on business trips

if time permits. This was how I arranged the DX Test last season from W C H L in Chapel Hill, North Carolina.

Specific information about arranging DX Tests can be obtained by writing to CPC chairman Jerry Starr at his address shown on the cover of DX NEWS. The following are some of my personal tips on contacting stations about broadcasting DX Tests.

1. Be courteous in your request. Remember, you are asking a favor of a commercial enterprise, for which it will receive no economic benefit. At the very least it is an imposition. I recall a DX Test several years ago where the chief engineer and his announcer were relieved of their wallats in a restaurant hold-up shortly after the conclusion of the broadcast.

A courteous letter might not result in a DX Test, but it could lead to a more favorable verification policy at the station.

2. Select the best possible time for the DX Test to assure maximum response for the station. Keep in mind that all we have to do on a DX Test is to go to our receivers. The chief engineer, on the other hand, has to drive to the station, run the test and then return home for a couple of hours of sleep before going to work. Let's at least attempt to make it worth his effort.
3. Be sure to remind the station shortly before the approaching date of the test. Personally, I always call the chief engineer on the Friday before the broadcast.
4. Explain that DXers will be listening and sending reports of reception from their respective locations. In return, they desire a letter or card verifying their reception.
5. Include with your request letter any items which may be of interest to the station. This could be the determining factor. I include, for example, where appropriate, a copy of the respective page from our NRC Pattern Book, indicating those stations which would be expected to cause interference during the DX Test. I also enclose an information sheet telling about DXing and the National Radio Club.
6. Inquire as to any scheduled frequency checks or equipment tests that the station may have. Many times a station will decline a DX Test, but will pass this type of information along.
7. After you have had a station conduct a DX Test, request that the chief engineer give you a list of the names and addresses of those DXers reporting reception of the broadcast. This is quite helpful in recruiting new members for the club.

These are just a few suggestions, and by no means should they be considered all-inclusive. By participating in the CPC program, a DXer will develop techniques of his own. The important thing is to maintain a business-like approach.

As a DXer and member of the NRC for over 14 years, I owe many of my loggings to the fine work of the Courtesy Programs Committee volunteers. Hopefully, with

this article I have stimulated some interest in this rewarding sideline to the DXing hobby. Remember, our club can only be as good as we want to make it.

Carl W. "Skip" Dabelstein
KØSBV

COMMENT ON FJP EQUATION FOR ARRIVAL-TAKEOFF ANGLES ----- de Ghoti, Ph.D.

FJP published an article on the topic of skyline-horizon blockage in both DXN and DXM and gave there the derivation of the following formula for the angle of arrival or angle of takeoff for a signal travelling via an N-mode (an ionosphere-Earth hop):

$$A = \text{ASIN} \frac{(R+H)\text{COS}(X) - R}{\text{SQRT}(2R(R+H)(1-\text{COS}(X)))} \text{ degrees}$$

where R is the Earth's radius and H is the height of the point of "reflection" in the ionosphere and are both of the same linear measure; e.g., miles or kilometers. Typical values (miles) are R = 3957, H(F-layer) = 186 and H(E-layer) = 65. X is half the angle subtended at the Earth's center by the great circle path of the signal of distance D. X is measured in degrees and for D in miles; $X = D/(138.12k)$ where k is the number of hops the signal takes to travel from the transmitter to the receiver. The maximum distance (miles) a signal can travel by one hop in an N-mode is given by: $D_{\text{max}} = 138.12 \text{ ACOS}(R/(R+H))$ where R and H are defined as above and of the same linear measure.

FJP's original derivation contains an error: viz., in Equation 4 of his work in simplifying the Law of Cosines applied to his illustration. Specifically:

$$\text{Eq. 4: } L^2 = R^2 + (R+H)^2 - 2R(R+H)\text{COS}(X) \neq 2R(R+H)(1-\text{COS}(X))$$

where X denotes the angle above (FJP's symbol here is theta). The error is denoted by the absence of the unequal sign in the above equation. Thus, properly stated, FJP's equation becomes:

$$A = \text{ASIN} \frac{(R+H)\text{COS}(X) - R}{\text{SQRT}(R^2 + (R+H)^2 - 2R(R+H)\text{COS}(X))} \text{ degrees.}$$

This equation can be replaced by a perhaps simpler one which has been derived in PATTERNS IV (an NRC Monograph) which also considers such genetic modes of propagation. There are a multitude of equations which follow from applying the trigonometric equations to such a problem and from PATTERNS IV, the following is offered:

$$A = \text{ATAN} \left(\frac{H + R(1-\text{COS}(X))}{(R)\text{SIN}(X)} \right) - X \text{ degrees.}$$

The error introduced by the published equation given by FJP increases as the angle X decreases for a fixed height H. Thus values given by that formula tend to be larger than the true value of arrival/takeoff, A.

Finally, it should be noted that all trigonometric arguments (dependent variables) and all trigonometric inverse values (independent variables) are measured in degree measure for the equations given above.

The article on TRANS-POLAR DX published in DXN uses the original FJP equation and thus some errors are introduced. For those interested, the following table from that article is reproduced with correct values entered below:

STATION	D(miles)	2F2	3F2	4F2	5F2	6F2	7F2	5E	6E	7E
Urumschi	6472	n	1.7	6.8	11.0	14.7	18.1	0.7	2.6	4.2
Khbarovsk etc.	6000	n	3.0	8.2	12.5	16.4	19.9	1.5	3.4	5.1
Petropavlovsk	5169	n	5.7	11.0	15.6	19.8	23.6	3.0	5.0	6.8
Bulun	4850	n	6.8	12.3	17.0	21.3	25.2	3.7	5.7	7.6
Sredne-Kolumsk	4550	0.8	8.0	13.6	18.5	22.9	26.9	4.4	6.5	8.4
Helsinki	4155	2.4	9.7	15.5	20.6	25.2	29.4	5.4	7.6	9.6
Murmansk	4000	3.0	10.4	16.4	21.6	26.2	30.4	5.8	8.0	10.1
Reykjavik	2683	10.3	18.9	26.1	32.2	37.5	42.1	11.0	13.8	16.4
Thule	2534	11.4	20.2	27.6	33.9	39.2	43.9	11.8	14.7	17.5
Calcutta	7921	n	n	3.2	7.2	10.6	13.7	n	0.5	2.1
Bangkok	8452	n	n	2.1	6.0	9.4	12.4	n	n	1.4

with R = 3957 miles; H(F₂) = 186 miles and H(E) = 62 miles. It is also proper to round off to the nearest whole degree due to the uncertainty of the path geometry in real ionospheric--in fact variants of several degrees are possible.



Verie from Gregg Calkin, Islamabad, Pakistan



NRC LOG UPDATER
VOL. 4 #5

New abbreviations:

CBCo --station is CBC owned
CBCa --station is a CBC affiliate

- 600
 - *KINC-CA ZIP: 93526
 - KGEZ-MT NET: C
 - KSJB-ND SCH: 24 hrs SP:MM
 - C8NA-NF NET: CBCo
 - CFCT-NWT NET: CBCa
 - CKCL-NS NET: CBCa
 - CFCH-ON NET: CBCa
 - CFQC-SA PC: S7K 1X1
- 540
 - WGTO-FL Best info I have here is PWR: 50 kw-D, 10 kw-N Seeks 50 kw D3, drop CR facilities.
 - WDAK-GA SCH: 24 hrs SP: MM -0400
 - KNOE-LA SCH: 24 hrs SP:MM 0100-0600
 - KDLT-UT Delete * before call,CP is on. ZIP: 84624
 - CBKO-BC Delete NET
 - CBT-NF NET: CBCo
 - CBFF-PQ // CBJ-1580
 - CBK-SA NET: CBCo SCH: 0655-0310
- 620
 - WTVN-OH SCH: 24 hrs SP:MM 0000-0500
 - CJAT-BC NET: CBCa
 - CHTM-MB NET: CBCa
 - WETE-TN NET: N SCH: 24 hrs SP:MM CP: 850
 - *CP-ON Sudbury. U3 10000 5000
 - CKCK-SA PC: S4P 3H7
- 550
 - WKRC-OH CP is on. PWR: U4 5000 1000. SCH: 24 hrs SP: Sun 0200-0600
 - CKPG-BC NET: CBCa
- 630
 - WLAP-KY SCH: 0500(0700)-0108
 - CKOV-BC NET: CBCa
 - CKAR-ON NET: CBCa
 - CJET-ON NET: CBCa
 - CFCY-PEI NET: CBCa
- 560
 - WIS-SC SCH: 24 hrs SP:MM 0100-0500
 - CHCM-NF ADDR: Ville Marie Drive
 - CJKL-ON NET: CBCa
 - CFOS-ON PC: N4K 5P5 NET: CBCa SCH: 0600(0730)-0110
- 640
 - CBN-NF NET: CBCo
- 570
 - WSYR-NY SCH: 0500(0700)-0100
 - CKCQ-BC PC: V2J 2K1
 - CFWH-YT NET: CBCo
- 650
 - KYAK-AK ADDR: 2800 East Dowling Road, ZIP: 99507
 - KORL-HA SCH: 24 hrs SP:MM 0500-1000
 - WSM-TN SCH: 24 hrs SP:MM 0100-0545
- 580
 - WTAG-MA SCH: 24 hrs SP:MM 0005-Granted PSA
 - WKSK-NC SCH: 0600-0300(0100MM) off 24 hr sch, I need correct schedule.
 - CKY-MB
 - CJFX-NS NET: CBCa
 - CKAP-ON SCH: 24 hrs NSP
 - CKWW-ON PC: N9A 1E2
- 660
 - KFAR-AK SCH: 1000-0400. Delete Net.
- 670
 - K8OI-ID SCH: 0700-0306
- 590
 - WKZO-MI ZIP: 49001
 - WARM-PA SCH: 24 hrs SP: MM 0005-0500
 - CFTK-BC NET: CBCa
 - CFAR-MB NET: CBCa
 - CKEY-ON SCH: 24 hrs SP:MM
- 680
 - CKGB-ON NET: CBCa
- 690
 - CBU-BC NET: CBCo
 - *C8OI-ON Note call for Ear Falls CP.

710
 *CP-CA Tracy. ZIP: 95376. D1 500 WRFD-OH Address given is in
 WEPA-MS Delete * CP is on. Columbus, ZIP: 43285.
 KIRO-WA SCH: 24 hrs SP:MM 0402- 900
 0825 KFRB-AK SCH: 1000-0400
 *CP-PQ Port-Cartier. PWR: U2 WATV-AL Granted PSA
 1000 1000 Net: F KFNW-ND CP: 1170
 CFRG-SA NET: CBCo KIKR-TX ex KMCO
 WKDW-VA ex WAFB
 CJVI-BC Net: CBCa
 CKTS-PQ Net: CBCa. SCH: off 24
 hrs, s/off 0002

730
 CJNR-ON NET: CBCa

740
 CBX-AB NET: CBCo
 CBNM-NF NET: CBCo
 CBL-ON NET: CBCo

790
 *KGGPD-CA ZIP: 93612
 KFGO-ND SCH: 0600(0700)-0200
 (0130)
 CFCW-AB SCH: 24 hrs NSP
 CFAN-MB Net: CBCa. ADDR: Box 338
 CFDR-NS ADDR: Box 1007. PC:
 B2Y 3Z7
 CKSO-ON NET: CBCa

800
 KBRN-CO Granted PSA
 CKOK-BC Net: CBCa
 CJBQ-ON Net: CBCa
 CFOB-ON Net: CBCa
 CBQ-ON PC: P7C 1J5
 CHAB-SA SCH: 24 hrs

810
 WCEC-NC PSA: 500

840
 *WXEW-PR CP. Yabucoa. ZIP:00767.
 PWR: D3 250

850
 KICY-AK Net: Ac SCH: 1200(1300)-
 0533
 WCUG-GA PSA: 12
 WKIX-NC SCH: 24 hrs SP:MM 0000-
 0500
 *KEYX-TX New call for Houston CP.
 #CFCL-ON Timmins. PWR: U2 10000
 10000 Net: F ADDR: Box
 620. PO: 620

860
 CFPR-BC Net: CBCo
 CHAK-NWT Net: CBCo
 CBH-NS Net: CBCo

870
 WHCU-NY ADDR: Box 69

880
 WOKK-MS SCH: 24 hrs SP:MM
 0103-0630
 WLAS-NC CP: U2 5000 5000
 WFPB-OH SCH: 24 hrs NSP
 WGBI-PA SCH: 0600-0206
 KRIO-TX PWR: U4 5000 5000
 KRRV-TX SCH: 24 hrs NSP
 CFJC-BC Net: CBCa
 CKLY-ON Net: CBCa
 CBO-ON Net: CBCo

920
 KSRM-AK IDs as Soldatna-Kenai
 CJCJ-NB CP: U4 10000 1000 Net:
 CBCa

930
 WEOL-OH SCH: 24 hrs SP: MM
 0015-0500
 WGNT-WV SCH: 24 hrs SP: Sun
 0100-0500

940
 WFNC-NC SCH: 0530(0600)-0000
 WNRG-VA PSA: 398
 CJIB-BC Net: CBCa
 CBM-PQ Net: CBCo

950
 WLIT-OH Net: N. Granted PSA.
 WKTS-WI ADDR: 3811 Kohler Me-
 morial Drive
 CKNB-NB Net: CBCa
 CKBB-ON PC: L4M 4V1

960
 WSBT-IN SCH: 0530(0755)-0215
 (0005)
 KNEB-NE SCH: 0715(0900)-0200
 (0000)
 CKWS-ON Net: CBCa

970
 WERH-AL Granted PSA
 WOZN-FL Delete * CP is on.
 WFLA-FL CP: U4 5000 5000.SCH:
 24 hrs SP:MM - 0500
 WWDJ-NJ SCH: 0500(0600 Sat,Sun)
 -0100(0005 MM)
 WDAY-ND SCH: 0557-0200
 WREO-OH SCH: 0545(0745)-2315

970
 KOIN-OR SCH: 24 hrs SP: Sat.
 0300-0600
 CBZ-NB Net: CBCo

980
 WILK-PA SCH: 0500-0200(0025)
 CFPL-ON Net: CBCa
 CHEX-ON Net: CBCa. SCH: 24 hrs
 SP: MM 0108-0530

990
 KKIS-CA SCH: 0900-0304
 CBWK-BC Call for Terrace,delete
 * CP is on.
 CBW-MB Net: CBCo
 CBY-NF Net: CBCo

1000
 WCFL-IL SCH: 24 hrs SP: MM
 0130-0600
 *CP-NJ Hackettstown. D3 1000
 WKBQ-NC ADDR: 700 Umstead Lane,
 Garner, 27529-ZIP. PSA:
 granted. Net: Ai
 KOMO-WA SCH: 24 hrs SP: MM
 0300-0500 with TT
 Net: CBCa

1010
 CKBW-NS Net: CBCa

1010
 KIQI-CA ex KSAY
 CBR-AB Net: CBCo

1030
 WBZ-MA SCH: 24 hrs SP: MM
 0008-0500

1040
 KHVH-HA SCH: 24 hrs SP:MM 0612-

1050
 KLPL-LA Granted PSA
 WYBG-NY PSA: 500
 KIXS-TX ex KIXE
 CFGB-AB Net: CBCa
 CKSB-MB Net: CBCo
 CJIC-ON Net: CBCa

1060
 WRMF-FL SCH: 24 hrs SP: MM
 WALD-SC Granted PSA
 KAMA-TX Granted PSA
 KHYM-TX Granted PSA
 KCLT-TX PSA: 283
 CJRP-PQ PC: G1S 1L8

1070
 WNCT-NC SCH: 24 hrs SP:MM 0125-
 0530
 CBA-NB SCH: 0500(0600)-0010
 Net: CBCo
 CHOK-ON SCH: 0600-0110. Net:
 CBCa

1080
 *CP-AK Anchorage, 99501. PWR:
 U1 10000 10000 ADDR:
 360 K Street
 Granted PSA

1090
 WQIK-FL PWR: D3 50000 Drop CH:
 10000
 WIID-MI Granted PSA
 WMTY-SC Delete *, CP is on.
 Granted PSA
 *KACO-TX CP. Bellville, 77418.
 D1 1000
 *KKYN-TX CP. Plainview, 79072.
 D1 1000. Note call
 CP. Frederikstad,00840.
 D3 500. Note call
 *WRRR-VI SCH: 24 hrs SP: MM
 0300-0800
 KING-WA ADDR: Box 1090,T1J 4A3
 CHEC-AB
 1100
 WWWE-OH SCH: 24 hrs SP: MM
 0030-0430. ADDR: 1701
 E. 12th St. Park Center

1110
 WGBR-KY Granted PSA
 *KPAL-LA CP. Pineville,note call
 ADDR: 1610 Military Hwy.
 PSA: 250
 WFCG-LA Still here. PC:N1R 1V4
 CFTJ-ON Net: CBCo
 CBD-NB

1120
 KMOX-MO SCH: 24 hrs SP:1st MM
 0112-0630
 Net: N

1130
 WWOL-NY

1130
 WNCM-IN PSA: 12.3
 *KKST-IA Call for Mt. Pleasant.
 KLEY-KS Granted PSA
 WEEO-PA Last updater put this
 call on 1450-WYAM but
 info was wrong.
 CP is on, delete *.

WRRL-WV

1140
 WCJW-NY PSA: 500
 WLXC-TN Granted PSA
 CBI-NS Net: CBCo
 CBFA-PQ // CBJ-1580
 CJTR-PQ PC: G9A 4J4
 CBFD-PQ // CBV-980

1150
 KBAI-CA CP is on, delete *.PSA:
 500
 KGMC-CO Net: delete M, now UPI.
 WNDB-FL ADDR: Box 720,ZIP:32017
 WCUE-OH SCH: 24 hrs SP: MM
 0000-0600
 WIMA-OH SCH: 24 hrs SP: MM
 0000-0600
 ex KPNG
 KSUZ-TX Granted PSA
 WABH-VA Net: CBCa
 CKX-MB

1160
 *WBQN-PR ex WIDL.Barceloneta CP.

1170
KJAS-MO Granted PSA
#KFNW-ND Fargo, 58102. D1 1000
PSA: 425 ADDR: North-
western College. PO: 900
CFNS-SA Net: CBCo SCH: -0100 MM
1180
WHAM-NY SCH: 24 hrs SP: Sun
0108-0700

1190
WPUP-MS CP is on, delete *
WLIB-NY PSA: 100
WAMB-TN Granted PSA
WHMT-TN PSA: 230
*CJMR-ON Note call for Mississ-
auga CP.

1200
WOAI-TX Zip: 78299

1210
CFFB-NWT Net: CBCa

1220
WKTZ-FL PSA: 111.8
WSFT-GA Granted PSA
WLSB-VA PSA: 500
CJOC-AB Net: CBCa
CKCW-NB SCH: 24 hrs SP: M00001-
CJSS-ON PC: K6H 5V1
CJRL-ON Net: CBCa
CKSM-PQ Net: F

1230
WSAL-IN SCH: may be 24 hrs, on
past 0130
WIRO-OH SCH: 0600(0800)-0000
WCWA-OH SCH: 24 hrs SP: 1st &
3rd MM 0000-0600
*CP-NF Goose Bay, Lab. U1 1000
250 Net: EE

CKTK-BC Net: CBCa
CHFC-MB Net: CBCa
CJTT-ON Net: CBCa
CHVD-PQ SCH: 24 hrs

1240
WEBJ-AL SCH: 0630(0700)-2300
(2015 Sun)
KSUE-CA SCH: 0900(1100)-0200
(0300 Fri/Sat)(2300 Sun)
WWCO-CT ADDR: Box 2777, Water-
bury, Zip: 06720
WWNS-GA Net: Acei
KPRM-MN SCH: 0700(0900)-2200
(2000)

WJEJ-MD Net: Ae
WCOU-ME SCH: 24 hrs NSP
WBBW-OH SCH: 0530-0105
WHIZ-OH SCH: 0600(0700)-0000
(0100 Fri/Sat)

WKDA-TN Delete Net
KCKG-TX Delete listing
WTON-VA SCH: 0550(0600)-0005
(0000 Sat/Sun)

1240
KFBC-WY SCH: 0800(0900)-0145
KTHE-WY SCH: 0800(1100)-2100
CKOO-BC Net: CBCa
CJAV-BC Net: CBCa
CFEK-BC PWR: U3 1000 500. De-
lete CP.
*CP-BC Mackenzie. U1 1000 250
*CP-MB The Pas. Net: EE PWR:
Unknown
CJCS-ON Net: CBCa. SCH: 0600
(0800)-0005
CJWA-ON Net: CBCa
CBMO-PQ // CBM-940

1250
WDVA-VA SCH: 0430-0000
KWSU-WA SCH: LSS-0215
KTW-WA SCH: 24 hrs SP: MM &
LSS-0215 daily & 0600-
0900 Sun AM
WEMP-WI SCH: 24 hrs SP: MM -0600
CBGA-PQ SCH: -0106

1260
WNDE-IN ADDR: Box 20167, Zip:
46220
WCSA-MS Granted PSA
WIXY-OH SCH: 24 hrs NSP
WNXT-OH SCH: 0530(0755)-0000
KVSF-NM SCH: s/off varies be-
tween 0200-0300 MM
WPHB-PA Net: Ae
WVVW-WV Has PSA

1270
*WVOY-MI Call for Charlevoix CP.
KWVB-ND ex KBOM. LOC: Bismarck-
Mandan. SCH: 0700(0800)
-0200(0000)

CHAT-AB Net: CBCa
CHWK-BC Net: CBCa

1280
WPID-AL Granted PSA
WGTX-FL Granted PSA
WGSO-LA SCH: 24 hrs NSP
WROC-NY SCH: 0530-0005
WONW-OH SCH: 0600(0700)-0000
ex KERG
KBDF-OR
*WTTX-VA Call for Appomattox CP.
Zip: 24522. ADDR: State
Road 1032
Net: CBCa
PC: H2L 4E8

1290
CHQB-BC
CJMS-PQ

KKIO-CA ex KACL
ADDR: Drawer M
KGVO-MO SCH: off 24 hrs, s/off
0000
WGLI-NY SCH: 24 hrs SP: MM
WNBf-NY SCH: 24 hrs NSP
WHIO-OH SCH: 0530-0100(0200 Fr)
WFBG-PA Note call for Mingan CR
*CBGL-PQ

1300
WFBR-MD SCH: 24 hrs SP: Sun
0200-0600
WERE-OH SCH: 24 hrs NSP
KVET-TX SCH: 24 hrs NSP
CJME-SA ADDR: Box 1300. PC:
S4P 3B9

1310
KGMT-NE Granted PSA
WCAM-NJ SCH: noted on past 0235
WISE-NC ADDR: 90 Lookout Road,
Zip: 28804. Also should
be Asheville.

1320
WFHR-WI SCH: 24 hrs
CKEC-NS Net: CBCa. SCH: 24 hrs
#CFTJ-ON Still on 1110. Insert #
before call.
PC: N2G 1E8

CKKW-ON

1330
WYGO-KY Granted PSA
WRLE-PA SCH: 24 hrs SP: MM -0500
WFBC-SC SCH: off AN, 0600-

1340
/WPBR-FL CP: U1 1000 250
WBGW-KY SCH: Possible NSP
KCAP-MT SCH: 24 hrs SP: MM
0200-0730
WNCO-OH SCH: 0555(0630)-0000
(2215)
WOKE-SC SCH: possible 24 hrs
ex KRSD
KTOQ-SD
CFKC-BC Net: CBCa
CFGB-NF Net: CBCa
CFLW-NF PWR: U3 250 250
CJLS-NS Net: CBCa
CFYK-NWT Net: CBCo
CKNR-ON Net: CBCa. ADDR: Algoden
Hotel, Suite 38. CP is
on, PWR: U1 1000 250

CKAR-1 Net: CBCa
CKOX-ON PC: N4S 7W7
CFOM-PQ Net: CBCa

1350
WYLS-AL Granted PSA
WZIX-PA SCH: 0500-0145. ADDR:
2550 Kingston Road. In
sch: MM s/off 0105
WKLY-VA SCH: 0500-0201
CJCO-NF May be call for Gander
which is on 24 hrs.
Is // to CKDY etc. Net:
CKAD-NS Is // to CKDY etc. Net:
CBCa
CHOV-ON Net: CBCa
*CBGO-PQ Call for Aguanish CP.

1360
KZIQ-CA Station is on, delete
silent in front of call
WCHL-NC SCH: no longer NSP
WBAY-WI SCH: 0545(0700)-0300

1360
WEBB-MD PO with D1 1000. CP:
D3 5000
WSAI-OH SCH: 24 hrs SP: MM
0000-0600
CKBC-NB Net: CBCa. ADDR: Box G
PC: E2A 3Z2
*CP-PQ Ste. Marie de Beauce.
U4 10000 5000

1370
WTTS-IN SCH: 0500(0600)-0200
(0000 Sat)
WDEA-ME SCH: 0530-0106
KDAN-MN ADDR: Box 159, Newport,
Minn. Zip: 55055
CHPQ-BC SCH: // CHUB except
0700-0900 local time
daily

1380
KTOM-CA SCH: off 24 hr sked
WAMS-DE SCH: 0530-0030
WMEE-IN SCH: 24 hrs SP: MM
WGSE-NC Granted PSA
WTOB-NC Granted PSA
KOTA-SD SCH: 0700(0800)-0200
CP. Lebanon. Zip: 24266.
PWR: D1 500
*WLRV-VA SCH: 24 hrs

CKLC-ON

1390
KENN-NM SCH: 0500(0800)-0100
(0000)
WTNK-MS Granted PSA
WFMJ-OH SCH: 24 hrs SP: MM
0100-0500
WCSC-SC SCH: 24 hrs NSP
CKKC-BC Net: CBCa

1400
KAAP-CA ex KQIQ
*CP-CO Pagosa Springs. Zip:
81147. PWR: U1 1000 250
WMAN-OH SCH: 0457(0557 Sat,
0657 Sun)-0000
WPAY-OH SCH: 24 hrs NSP
*CP-BC Mackenzie. U1 1000 250
Net: EE. Owner CKPG-550
*CP-ON Renfrew. PWR is U1 1000
250
PC: L9Y 3Z7
CKCB-ON // CBM-940
CBMD-PQ // CBM-940
CBMG-PQ // CBF-690
CBFM-PQ // CBF-690

1410
KCAL-CA Granted PSA
KCOL-CO SCH: 0800(0900)-0200
(0030)
WPOP-CT SCH: 24 hrs SP: MM
KAHL-NE SCH: 0700-0105
WLSH-PA PSA: 269.5
KQV-PA SCH: May have SP MM

23

1420
 WRBL-GA SCH: 0500-0108
 WLET-GA PSA: 335
 WVJS-KY SCH: 24 hrs SP: MM
 0100-0600
 WBSM-MA SCH: Noted on MM 4/22
 WSUH-MS Granted PSA
 WHK-OH SCH: 24 hrs NSP
 CKDY-NS Is // CKAD etc. Net:
 CBCa
 /CJMT-PQ PO: U3 1000 1000 CP: U2
 10000 2500

1430
 WENE-NY SCH: 24 hrs SP: MM
 0100-0500
 WFOB-OH SCH: 0530(0700)-0000
 (2100)
 KLO-UT CP is on, delete 1st
 listing and "A" on 2nd.

1440
 WAAB-MA SCH: 0500-0103
 WHHH-OH SCH: 0528(0630 Sat,0730
 Sun)-0000
 KEYS-TX SCH: 24 hrs NSP
 KDNT-TX SCH: 24 hrs SP: MM 0100-
 ex KDNC
 KXXR-WA Dropped CBCa
 CFCP-BC CP: U2 10000 1000
 /CJOI-AB
 1450
 WEEO-AL Call really is WYAM for
 Bessemer. WEEO on 1130.
 KEST-CA SCH: off 24 hrs, -0430
 WILM-DE SCH: 24 hrs SP: MM but
 time varies
 WKZZ-IN ex WLYV. SCH: 24 hrs NSP
 WJER-OH SCH: 0500(0600)-0015
 WMOH-OH SCH: 24 hrs SP: MM
 0000-0500
 WLEC-OH SCH: 0525(0625)-0000
 WGNS-TN SCH: possible NSP
 WKRI-RI ex WSPV
 WMYB-SC SCH: 0600(0700)-0005
 (0220 summer)
 WENZ-VA SCH: 24 hrs NSP
 CBG-NF Net: CBCo
 CFAB-NS Net: CBCa. Is // CKAD
 etc.
 CFJR-ON Net: CBCa
 CHUC-ON ADDR: Box 520, Cobourg
 PC: K9A 4L3
 CBV-980 // CBV-980
 CHEF-PQ PWR: U3 10000 5000
 *CBGG-PQ Call for Sheldrake CP.

1460
 WMBR-FL SCH: 24 hrs SP:MM 0045-
 0530
 WPVL-OH SCH: 0600-0000(2200)
 WCMB-PA SCH: 0500-0000
 WFBA-PR SCH: 0407-2330
 CJOY-ON 24 hrs SP:MM 0110-0500

1470
 *CP-KY Harlan, 40831. D1 1000
 WTKO-NY Granted PSA
 KVIN-OK CP is on, delete *
 #KWIV-WY Resurrect this listing,
 place # before call.
 Zip: 82633. PO: 1050
 PWR: U1 1000 500 ADDR:
 Box 114
 CJVB-BC SCH: 24 hrs NSP
 CFRW-MB CP is on. PWR: U3
 10000 10000
 CFOX-ON CP is on. Delete 1st
 listing and / on 2nd.
 Bagotville. PWR: 1000
 Net: F
 *CP-PQ

1480
 WLPH-AL PSA: 500
 /KPHX-AZ CP: D1 1000
 WTHI-IN SCH: 24 hrs
 Pilot Knob, 63663. PWR:
 D1 5,000. ADDR: Shep-
 pard Mountain Lake Rd.
 PO: 1510
 #KPIA-MO
 WSAR-MA Granted PSA
 WCIN-OH SCH: 24 hrs SP:MM 0000-
 0500
 WISL-PA SCH: 0645-2358(2300)
 ADDR: Box 2098
 WMQM-TN LOC: N. Portland, Ore.
 KVAN-WA ex Vancouver, Wash.
 ADDR: 11197 N. Portland
 Road

1490
 WAJF-AL SCH: 0555(0700)-0100
 KBLF-CA SCH: 0830(0900 Sat,1000
 Sun)-0300 (0100)
 KWAC-CA SCH: 24 hrs SP:MM 0300-
 0700
 KICO-CA Zip (El Centro): 92243
 WGCH-CT SCH: 0600-2315
 WETO-FL \$SCH: 0545(0658)-0000
 (2355) Net: Acei
 ex WCOF. SCH: 0600(0700)
 -2200(1800)
 WKEM-FL SCH: 24 hrs NSP
 *WSRA-FL Mark listing with ***
 WPXE-FL SCH: 0500-2300 (2000
 Sat/Sun)
 WTTB-FL SCH: 0545(0700)-0000
 (2200)
 WSIR-FL SCH: 0530(0700)-0100
 WMOG-GA SCH: 0500(0600)-0000
 WOPA-IL SCH: 24 hrs SP: Sat
 0530-0630
 KRUS-LA SCH: 0600(0630)-0100
 WTVL-ME SCH: 0600(0700)-0011
 WTXL-MA SCH: 0600-0100
 WEMJ-NH Net: Ai
 WCSS-NY SCH: 0558(0728)-2300

WBTA-NY SCH: 0500(0600 Sat/Sun)
 -0000
 WKNY-NY SCH: 24 hrs SP:MM 0000-
 0600
 WICY-NY SCH: 0630-2210
 WLOE-NC SCH: 24 hrs SP:MM 0100-
 0500
 WRMT-NC SCH: -0000
 KNDC-ND SCH: 0800(1000)-2030
 (1730)
 WBEX-OH SCH: 0530(0800)-2300
 WMOA-OH SCH: 24 hrs SP:MM 0000-
 0600
 WMRN-OH SCH: 0530(0655)-0005
 KRNR-OR SCH: 24 hrs SP:Sun
 0300-1000
 WZBS-PR ADDR: Box 4512, Santa
 Maria Station. SCH:(PR
 Time): 0557-2357
 WESB-PA SCH: 0625(0655 Sat,0750
 Sun)-0005
 WMGW-PA SCH: 0500(0600)-0000
 WGED-SC SCH: 0600(0700)-0000
 WMRB-SC ADDR: Box 8876
 WOPI-TN SCH: 0500(0600 Sat/Sun)-
 0100(0000 Sat/Sun)
 ADDR: 1830 White Ave.,
 S.W. Net: N SCH: 24 hrs
 NSP
 WROL-TN Net: Ac
 KQTY-TX SCH: 0630-0200(0400 Sat/
 Sun)
 KDOK-TX SCH: 0600(0730)-2307
 WIKE-VT SCH: 0530(0723)-2200
 WCVA-VA SCH: 0730(0630)-0230
 KOJO-WY (0430 Fri/Sat)(0130 Sun)
 CFNC-BC CP is on,delete ***
 ADDR: Native Communica-
 tions Inc., Box 5, Thomp-
 son, Manitoba. SCH:Week-
 days only: 0700-1600,
 2000-2200.
 CFWB-BC ADDR: 922 Duheau St.PC:
 V9W 2L6 Net: CBCa
 CKEN-NS Is // CKAD etc. Net:CBCa
 *CBGI-PQ Call for Magpie CP

1500
 WKAX-AL CP is on,delete ***
 WVSM-AL Granted PSA
 KXRX-CA SCH: Seems NSP
 *WIAF-GA Call for Clarkesville CP
 Buford, Zip: 30518
 *CP-GA
 WKXO-KY PSA: 10.9
 WDEE-MI SCH: 24 hrs SP:MM 0130-
 0500.ADDR: 21700 North-
 western Hwy, Southfield,
 Mich. Zip: 48075
 WBFN-MS Granted PSA
 WLWL-NC PSA: 45

1500
 KWFA-TX Granted PSA
 CKAY-BC CP is on, PWR: U4 5000
 1000 SCH: 0900-0312

1510
 KSOM-CA SCH: 24 hrs SP:MM 0258-
 KDKO-CO PWR: U4 1000-D 5000-N
 WINU-IL Granted PSA
 KPIA-MO CP: 1480
 WEAL-NC Silent
 WLKR-OH PSA: 50
 WLAC-TN SCH: 24 hrs SP:MM 0200-
 0530
 KGA-WA SCH: 24 hrs SP:MM 0300-
 0900
 CJRS-PQ PC: JLL 1C1

1520
 WDGL-GA Granted PSA
 WNMT-GA Granted PSA
 WYFC-MI ex WYNZ
 WSLT-NJ IDs as Ocean City-
 Sommers Point
 WTUU-OH SCH: 24 hrs SP:MM 0000-
 0500
 WCSV-TN Granted PSA
 *WEXM-VA CP Jamesville,23398.
 PWR: D1 500

1530
 KFBK-CA SCH: no longer AN-6
 *CP-FL Jacksonville, 32202.D3
 50000 ADDR: 113 W. For-
 syth Street
 *WQLW-IL Flora. Heard as WNOI
 but may be deleted, in-
 vestigation required.
 WYAZ-MS CP is on,delete ***
 WCKY-OH SCH: 24 hrs SP:MM 0100-
 0430
 KJEM-OK PSA: 111
 WMBT-PA CH: 250
 CBAQ-NB // CBAF-1300
 *CBGH-PQ Call for Riviere-au-
 Tonnere CP

1540
 KPOL-CA SCH: 24 hrs SP:MM 0300-
 0800
 KXEL-IA SCH: 24 hrs SP:MM 0200-
 0600
 /KBES-WA CP: U4 5000 5000
 1550
 KQXI-CO Has CP to move studios/
 XR to 2700 S. Platte
 River Rd., Englewood,
 Zip: 80110
 WRHC-FL ex WRIZ
 WSER-MD Granted PSA
 KGMO-MO ADDR: Box 552
 WOKI-TN ADDR: 125 Randolph Rd.
 WYNA-NC ADDR: 3203 Womans Club
 Drive

26

1550
 KCOM-TX Granted PSA
 CBE-ON Net: CBCO
 *CBGK-PQ Call for Longue-Pointe-
 de-Mignan CP
 *CBGQ-PQ Call for La Romaine CP
 1560
 KDDA-AR PSA: 500
 KIQS-CA Granted PSA
 WYSE-FL Granted PSA
 *CP-IA Iowa City, 52240. PWR:
 U4 1000 1000
 WDXR-KY SCH: 0600-0104
 WSMD-MD PSA: 250
 1570
 WTQX-AL PSA: 50
 KBJT-AR Granted PSA
 KKEE-CA ex KRSA
 KLOV-CO Granted PSA
 WTWB-FL PSA: 13
 KQWC-IA Granted PSA
 KMAR-LA Granted PSA
 WHII-MS PSA: 75
 WBUZ-NY Net: M. Granted PSA
 WTCL-OH PWR: D3 500
 WLSC-SC Granted PSA
 KVRA-SD Granted PSA
 *CP-AB Taber. U2 5000 5000
 CFOR-ON SCH: 0600-0103
 CKLM-PQ SCH: 24 hrs NSP
 CHLO-ON SCH: 0600-0100 (M-Th)
 (0200 Fri/Sat)
 1580
 *WGTW-FL Call for Mt. Dora CP
 Zip: 32757
 WCLS-GA SCH: 24 hrs SP:MM 0025-
 0400
 WCCR-IL Zip for Campaign in
 Addr is: 61820
 1590
 WHPY-NC CP is on, delete ***
 Addr: Box 355 PSA: 500
 WVOE-NC PSA: 250
 KEND-TX SCH: may be off 24 hr
 sked, s/on 0600-
 1600
 WKWF-FL SCH: 0530-
 WPRV-FL Silent
 WUNR-MA SCH: possible 24 hrs
 KATZ-MO SCH: 24 hrs NSP
 WFRS-NC SCH: 0458-0000
 *CP-PA Bedford, 15522. PWR: D1
 1000 ADDR: Box 256
 WNST-WV Granted PSA
 Tnx to: Dave Lewis, Brian Vernon,
 Gord Bailey, Dan Myers, Paul Daplyn,
 Mark Katz, Frick & Frack.

PUBLISHERS' NOTE: The CBCa & CBCo
 abbreviations used here are for the
 information of the membership. They
 will not be used in the new NRC Log.
 We feel that this information is not
 immediately essential, and for this
 reason, space limitations preclude
 its use in the log. -RJE



VERIE SIGNERS

540	W CqT O	P Tichenal, CE	A	1270	K TqF I	W Snow, CE	B
	CqBmK	L Poole	B	1280	K TcL K	R Kashar, CE	B
550	K FcY R	D Brennan, PD	B		W A N S	J Graham, CE	A
560	W Q T E	I Lane, OpM	C	1300	W S Y D	EF Poore, M	A
	W F R B	K Adams, E	C		W Mpa K	S Shannon, PD	A
	K LqZ	GL Vaughn	B	1310	W Dp O D	SP Hall, CE	A
570	W KqY X	JB Fowler, CE	F		Kmf KNA	DW Sawyer, CE	B
580	W EFL O	BJ Cragg, E	F	1330	W MrL T	u/u	A
	C K P R	GD Jeffrey, M	D	1340	K R O C	R Cross, CE	D
590	W P L O	HA Golembeck, VP, GM	A		W LfO K	R Rice, CE	F
	C F A R	D O'Brien, GM	B		W G A W	G Wiley, CE	G
630	K D W B	WA Dorweiler, CE	C		A F R T S	WR Sullivan, E	A
	K Mpa C	S Browning, PD	F		W OqK E	HC Weaver, P, GM	A
660	K SfK Y	MM King, CE	F	1360	W M N S	M Ceil, CE	D
680	C J O B	N East, CE	B	1370	W O T R	WM Remington, CE	C
690	K H E Y	CR Schlieper, CE	C		K XqL F	R Jones, GM	B
	C BqU	u/u	C	1380	K SpW O	R Richards, PD	F
710	K IqR O	DL Hurbert, CE	C	1390	W HpM A	R Gardner, PD	F
	W D S M	OG Williams, E	C		W A K A	T Moore, OpM	A
	W HqB	CR Nonemaker, StaSu	B		W RpO A	R Marshall, PD	A
730	C K D M	C Worth, PD	B	1420	W RfB L	JA Gamble, CE	F
	C KqL G	u/u	C		W ApV O	JH Dickson, CE	F
760	W CpP S	RL Harper, SM	G		W Kfs R	GM Martin, M	F
790	W Tfa R	RL Lindell, DoE	F	1430	W IqR E	GW Trout, CE	A
800	C Hqa B	N Kent, E	B		W QpP D	L Howard, OpD	A
810	W E D O	G Garbett, E	C	1440	W B J W	D Anglin, CE	A
800	W C C M	J Bassett, SM	G		W K H J	JS Foster, PD	A
850	W R U F	EA Sliimak, CE	A		W Z Y X	J Brewer	C
860	K CqA M	J Patterson, CE	A	1450	W W G O	J Allison, CE	C
900	C K B I	FF Rawlinson, M	B		W N B Y	LB Can Dam, M	C
	W Mpo P	S White, PD	F		W I B M	R Belcher, OpM	C
	W ApT V	T Whitley, GM	F	1460	W AfC O	J Vinson, CE	AC
920	C F R Y	R Hughes, M	B		W XpO K	L Carter, GM	A
930	CqJ Cma	G Skutle, CE	B	1480	W YfZ E	RL Leake, CE	F
	W G N T	C Kessell,	F		K G C X	DP Williams, PD	B
*900	W K A J	LL Fuller Jr., StuE	G	1490	W T T B	R Jackson, E	A
960	W Efr C	D Hultsman, E	A		W E T O	GN Kenner, VP	A
970	C BqZ	A Thurber	G		W Hra V	u/u	G
	W WpD J	u/u, Controller	A	1500	C K A Y	E Mykyte, M	C
990	C Bw	J Marks	B	1510	W WpB C	J Fox, GM	A
	W W W F	J Black, M	D	1530	K NfI E	T Rose, CE	BC
	W I T Z	E Metzger, GM	D		W T T I	L McClure, PD	A
1010	W B I X	C Maori, GM	A	1540	K XcE L	T Thill, CE	B
1050	W C E F	CE Franklin, CE	A	1550	W IpU X	M Brundage, GM	A
	W CfM S	L Higgins, CE	A		W YfN X	LN Polk, P	F
1060	K U P D	F Mint, CE	B	1560	K E G G	CS Hays, M	C
1080	W Lvn N	N Butler, O, M	F		W Tpa I	W Austin, PD	A
	W F I V	W Burgess, M	C	1570	W OpK C	R Hayes, PD	A
	W V C G	EL Miller, DoE	C		W Tpw B	R Bcyce, GM	A
1115	Y N P	Oscar Enrique Lara R. DirA	A	1580	W BpY Y	J Woodard, O	F
1120	K Pqn W	u/u	C	1590	W HmP Y	EI Steinberg, CE	G
1130	W M G A	D Dickenson, CE	A		W Arc A	B Team, CE	A
1140	K S O O	R Marty, CE	C		K YpO K	R Roberts, PD	A
1170	W Cfo V	PB Witt, CE	F		W IpL Z	LC Phillips, S., Trfc	A
	C Ffn S	E Gaudet, E	B	1600	K L A K	J Gardwell, TD	C
1190	W AqM B	u/u	D		W Jpn J	WH Bivens, CE	A
1230	W NqV Y	JW Milner, CE	A		C R E D I T S		
	C J O K	S Morton, GM	E		A - R. Schiller	E - "Jon"	
1240	W B M L	O Leverette Jr., E	C		B - C. Penner	F - K. Jeter	
1260	W J O T	H McElveen Jr., CE	C		C - W. Boyd	G - R. Musco	
	W PpH B	D Sharpless, CE	G		D - C. Iabelstein		
1270	W T N T	E Mallor?, E	D		Let's have YOURS! Weed out recent re-		
	W HpY D	FK Brown, VP	F		peats, please! Double space! -ERC		

809

RJM

More Notes on DX'ing the Graveyards

This article describes three techniques I have found very useful in DX'ing the graveyards, to add to Bob Foxworth's fine article. These techniques are use of single sideband or exhalted carrier reception, audio filter(s), and loop configurations with assymetrical pickup patterns.

Single sideband or exhalted carrier reception can produce much more readable audio on a crowded graveyard than the ordinary AM mode. Such sifting through the sidebands will often turn up audio not readable otherwise. From experience, SSB works best on graveyards when several relatively strong signals are received simultaneously, rather than on reception of a mess of weak signals. A fairly narrow bandwidth (1.0 to 2.0 khz., 6 dbs. down) is recommended for SSB listening on graveyards since a narrow bandwidth is best suited for elimination of unwanted background "hash."

Audio filters may prove useful for the same reason. Much of the noise caused by the interaction of many weak carriers can be eliminated by some sort of highpass filter. The Autek Q-Box, I have found, does this job nicely, provided that the receiver has a sufficiently wide selectivity position and good audio quality to faithfully reproduce the higher audio frequencies. (On the Drake SPR-4, for example, the 4.8 khz. position works best but the next widest, the 2.4 khz., works poorly) Rotating the selectivity knob on the Q-Box may enable the DX'er to pick out one or more GY audios from the pile. This frequently makes the difference between a GY'er loggable and verifiable and one only tentatively heard.

On a GY frequency, when many audios are received simultaneously from every direction, an ordinary loop may prove useless because its "figure 8" receiving

pattern has too wide an angular pickup range. Antenna systems with assymetrical pickup patterns, such as "tandem loops" cardioid arrays, and some longwires, enable the DX'er to better focus on signals coming from a particular direction to the exclusion of other signals. The tandem loop system (described in my article in 12/73 DX News) has proved quite successful in this respect. The cardioid loop system of Ron Schatz seems to have potential also-- Ron once reported hearing AFRS-Guantanamo Bay -1340 with the cardioid loop but inaudible with an ordinary loop. For DX'ers with some yard space, a series of longwires in the 50-100 foot range (longwires much longer than that tend to be relatively nondirectional unless properly terminated) strung out in various directions could produce some very interesting DX'ing comparisons.

The following new GY's were heard from Rockville, Maryland (a suburb of Washington, D.C.) during the last few months: 1230-- WKBO, 1240-- WHUM, WTON, WKOY, WKDA; 1340+- WMID, WXEE, WHAT, WALL; 1400-- WHCC, WGBG; 1450-- WMPT, WJPA, WKIP, WWSC, WCTC; 1490-- WGAL, WVEC, WRNB. All of these were regular schedule receptions (and none for MM's) on 250 watts, making use of the tandem loop technique combined with either SSB or the Q-Box audio filter (a combination of all three proved to be quite unwieldy!). Relatively little DX reported in DX News are GY's, considering the large percentage of domestic AM stations which fall in this category. Most GY reports are either for MM regulars (e.g., WOOK-1340 and WPOR-1490 from the Northeast) or equipment tests/frequency checks where the station was using 1000 watts to cut through the QRM. This strongly suggests the need for using QRM-cutting DX techniques to get at all that GY DX out there!

-----Mike Levintow

CANADIAN FAMILY LIFE

John Oldfield

Some of the newer members may not be familiar with these Canadian radio families of twins and triplets. Unlike the FCC, Canada's CRTC does not license every (well almost) town with its own local station. In large towns just outside the coverage area of a big-city station, there is a need for local radio service, but the CRTC feels that a fulltime station could not survive financially. There are other reasons, but even in Canada money is king (or is it queen?)

To provide these sometimes remote towns (or areas outside the normal coverage areas of the big-city stations) with at least a clear signal or if the town is large enough (enough advertising), provide some local live programs, the CRTC OK's a station for the town. This station relays or "twins" its mother, the nearby big-city station.

Most of these twins are on the graveyard (local service) channels: 1230, 1240, 1340, 1400, 1450 & 1490. Some twins are on good DX regional channels. Due to the mountainous terrain most of BC's stations are on the graveyards. More than half of BC's stations are now twins triplets, or mothers of these kiddies.

The CRTC now expects these twins to provide at least two hours daily of their own local programming from their own local studios. Each case is a different one. Some twins have no studio, just relaying mommy. Some are triplets (three stations) operating as one unit (parallel), always carrying the same programs. Radio Southern Manitoba is such a case. As the town grows, a local studio is to be added. CKBR Brooks, Alberta does so well locally that they now program over 8 hours live daily, taking only the news from their parent, CJDV Drumheller.

Rarely does a DXer hear a twin/triplet live on its own, since most of the live programs are aired during the daylight hours. Things like local hockey games, election returns, or a speech from Mayor Glotz are the rare exceptions. In all but a few twin basket cases let's assume that from a DX viewpoint, these twins are all parallel to the mother station.

For those DXers near the Canadian border it may be a good idea to try the Dr. Mollar method of DXing Mexican parallels when hunting for these Canadian twins/triplets. With an extra radio tuned to the mother station, it may be easier to hear the parallel twin, a real DX challenge if it's on the graveyard. A tape of the twin plus other stations IDing on the same channel would certainly prove to the staff of the mother station that it was the relayer, not the relayee that you heard.

Don't be confused by IDs. Many identify only as the "Big R Network" or the "Caribou Radio Network", using no call at all at times. If you hear a "C-jock 1220 Lethbridge" ID on 1490, it's CJPR, the twin. CJOC doesn't make a habit of mentioning its twin, CJPR Blairmore. Check your logbooks for the calls, and watch too for our foreign Canadian accent. All Canadian stations MUST play 30% Canadian music AND log it for the CRTC. Write down those song titles. It may

mean a QSL for you. Even CKLW, The Big 8, must play and log the "Guess Who" and other such songs of Canadian culture.

Maybe this answers some of the questions I've had re the relayers. A list of the twin/triplet networks follows. Corrections are welcome, especially an update of those in the east.

The Canadian Families:

s-known to have a studio m-mother station

ALBERTA

CJYR 970 & CKYR 1450 YR-Yellowhead Radio Edson(m)/Jasper
CJOC 1220 & CJPR 1490 C-jock Lethbridge(m)/PR-Pass Radio Blairmore
CJDV 910 & CKBR 1340 DV-Dinosaur Valley Drumheller(m)/BR-Brooks
Radio(s) CKBR is live 8½ hours nightly

BRITISH COLUMBIA

CKEK 570 & CFEK 1240 Cranbrook(m)/Ferne(s) EK-East Kootenay Radio
CKEK & CFEK join CJAT 610 Trail who host an AN6 Mid.-6am show
CKKC 1390 & CFKC 1340 Nelson(m)/Creston(s) KC-Kootenay Country R. Net
CKXR 580 & CKCR 1340 & C... 1400 The Big R...R Country
Salmon Arm(m)/Revelstoke/Golden First Voice W of the Canadian Rockies
CKOK 800 & CKSP 1450 & CKGF 1340 & CKOO 1240 Okanagan Boundary R.
Penticton(m)/Summerland(s)/Grand Forks(s)/Osoyoos(s) OK Radio
CHNL 610 & CJNL 1230 & CINL 1400 NL Radio in BC's Central Interior
Kamloops(m)/Merritt(s)/Princeton
CKCQ 570 & CKWL 920 & CKBX 1240 Caribou Radio Network
Quesnel(m)/Williams Lake(s)/100 Mile House(s)
CJCI 620 & CIVH 1340 & MacKenzie(prop) CI-Central Interior Network
Prince George(m)/Vanderhoof(s)/MacKenzie
CJCI & CIVH join CFBV & CFLD at times for a complete CI network
CFBV 1230 & CFLD 1400 BV-Bunkley Valley Smithers(m)/Burns Lake(s)
CFTK 590 & CKTK 1230 TK Radio Terrace(m)/Kitimat
affiliated w. CHTK 560
CKNL 560 & CFNL 590 NL-Northern Lights- Alaska Highway R. Network
Ft. St. John(m)/Ft. Nelson same owners as CHNL, CJNL, CINL
CHUB 1570 & CHPQ 1370 Nanaimo(m)/Parksville-Qualicum(s)
CFCP 1440 & CFWB 1490 Coast R. Courtenay(m)/Campbell River(s)
CHWK 1270 & CFVR 1240 & CKGO 1490 FVR-Fraser Valley Radio
Chilliwack(m)/Abbotsford(s)/Hope(s)
CKWX 1130 & CBU 690 both Vancouver (can both be found on SW)

MANITOBA

CFAR 590 & C... 1240 Flin Flon(m)/ The Pas(s) under construction
CFAM 950 & CHSM 1250 & CJRB 1220 Radio Southern Manitoba
Altona(m)/Steinbach/Boissevain

NEW BRUNSWICK

CJEM 570 & C... 1490 Grand Falls CP

NEWFOUNDLAND

CFGN 1230 & CFNW 790 & CFCB 570 & CFLW 1340 & C... 1230
all owned by Humber Valley Broadcasting
CKGA 730 & CHCM 560 & CKCM 620 & VOXM 590 & 1240 Baie Verte
all owned by Colonial Broadcasting
CJOX 610-710 & CJCN 680 & CJON 930 & 1350 Gander
all Newfoundland Broadcasting

Charles Clayton

32

NOVA SCOTIA

CKDY 1420 & CKEN 1490 & CKAD 1350 & CFAB 1450 same owners

ONTARIO

CKNR 1340 & CJNR 730 Elliott Lake/Blind River(m)
 CFLH 1340 & CFCL 620 & CFLK 1230 Hearst/Timmins(m)/Kap....
 CKAR 630 & CKAR-1 1340 Huntsville/Parry Sound
 CJKL 560 & CJTT 1230 Kirkland Lake(m)/...
 CJRL 1220 & CKDR 900 Kenora/Dryden (same owners, anyway)
 CKCB 1400 & CKBB 950 Collingwood/Barrie
 CJIC 1050 & CJWA 1240 Sault/Wawa

QUEBEC

CBGA 1250 & CBGN 1340 CBC// (ex CKBL & CKGN)
 CKTL 1420 & CFDA 1380 & CKLD 1230 & CJAN 1340
 CKML 610 & 710, 1490, 1340, 1400 CPs
 CJBR 900 & CJBM 1450 Rimouski/...
 CHRT 1450 & CFJP 1400 & CJAF 1240
 CJMD 1240 & CFED 1340
 CHAD 1340 & CKRN 1400 & CKVD 900 (same owners)
 CHAL 1350 & CHGB 1310
 CKUT 1340 & CKVM 710

SASKATCHEWAN

CFSL 1190 & CJSL 1280 SL-Soo Line Weyburn(m)/Estevan(s)
 CKSW 1400 & CJSN 1490 Southwestern Saskatchewan Radio
 Swift Current(m)/Shaunavon(s) SWSN Radio
 CFNS 1170 & CFRG 710 (CFGR 1230 nights) CBC FF// from Regina studio

 Typist Glenn Cooper notes that this loop is not connected inductively as with the standard BCB loops, and queries whether or not this negates the loop effect leaving only a vertical pickup. He likewise questions the use of co-ax instead of heavy wire, as the shield isn't used. More on these questions and hopefully some answers in the next issue.

By the way, our thanks to Glenn for typing not only Charlie's material, but the FF tape report form, and John Oldfield's article as well.

Do your longwave TA's sound weak, anemic, sickly, or in other ways having bad health? Now, with just a few items and about ninety minutes of time, you too can make an unamplified long-wave loop aerial covering the frequency range of 155-690 kHz., with sufficient pulling power to haul in Canadian beacon stations all day long. (Not saying what it can do at night.) Most of the items for this aerial are probably lying around your workbenches. You will need the following bill of materials:

- 1) approx. 8' of RG-58A/U coaxial cable
- 2) 250' of cheapie audio hookup wire
- 3) 2-gang tuning condenser, with range of 12-430 pF, Matsushita model 2FC-43. (Use any comparable condenser.)
- 4) one used, leftover, unneeded frame for an air-core box-loop aerial, with crossarm diameter/length in the range of 22" to 26"
- 5) loose hookup wire, narrow gauge, to parallel connect the gangs of the tuning condenser.

In constructing the aerial, one first winds the wire on the arm plates, which should be to a length specification of 7". It is wise to have stripped the insulation from both ends of the audio hookup wire, before the winding is commenced. Next, the variable condenser, to above specification, is mounted on the aerial frame. If the condenser is mounted near the terminals of the aerial wire, take a short length of coaxial cable from each termination, one cable to go to plate of the front condenser gang, and the other cable (from the other end termination) to go to rotor, at the front condenser gang.

The third and longest piece of coaxial cable connects from plate of the rear condenser gang directly to the back antenna terminal of the receiver. All electrical connection of the coax makes no use of the shield. It is left on as only the core wire is used. The piece of loose hookup wire (item 5 above) is connected between plate of front gang and plate of rear gang. This electrically joins the two condenser gangs, with an effective maximum capacitance of around 860pF.

If one's aerial frame has a crossarm length of 22-24", wind 43 turns on the arm braces; if the crossarm length is 24-26", wind 42 turns. Try to average 6-7 turns per inch of arm brace.

It is ridiculously simple to make this aerial, using the indicated junk-box components, yet it has excellent range. (I can receive Radiobeacon QC, 335kHz., Stirling, Ont. all day long with a weak signal (which is about 400 miles for a 1.6kW transmitter.) Probably some improvements will be found. If so, good luck and DX.

A FOLLOW-UP ON THE AUTEK Q-BOX REVIEW

Thomas R. Sundstrom

Two letters were received in response to the review of the Q-Box which appeared in DXN of May 13, 1974.

Mike Hardester of Modesto, CA, advised that his initial comment was based upon a review in FRENDEX and not upon the comment within the NNRC bulletin. Further, Mike states the Q-Box just totally refused to function on his Barlow-Wadley XCR-30 portable receiver despite several back-and-forth efforts working with Autek; apparently Autek was very cooperative in trying to get the unit to work (making component changes et al), but to no avail. Mike expects the Q-Box to work with the HQ-150 now being repaired.

Steve Bohac (NJPC member) of Fairview, NJ, was more critical... "it's really not much more than an inadequate toy for AM DXing. I suspect the results of audio filtering would be immensely more gratifying with the use of a Realistic (Radio Shack) #40-2010 Frequency Equalizer." In closing, Steve states: "The price one pays for the results obtained from the Autek Q-Box is not justified in my opinion; or perhaps it is at a "bargain price" of \$20!?"

Steve's letter is devoted to a discussion of the new RS "frequency equalizer" and Steve says it appears to have much potential for the serious DXer. Perhaps we can persuade Steve to review this new animal; be cautioned, however, that the inputs and outputs are hi-Z and you may require additional matching transformers when using it with communications gear.

I shall stand upon my original statements... that is, the Q-Box is not a miracle device for AM reception, but users of particularly low-budget receivers might find some benefit in its use. Those DXers having "incomplete" shacks should probably place this low on the priority list, and devote attention to acquisition of a second receiver, tape recorder, etc.

-30-

Reporting in FRENCH w. TAPE as proof of reception

Pierre Tremblay

Youngstown, 7 décembre, 1972

A qui de droit, (or Cher monsieur,)

J'ai le plaisir de vous annoncer que j'ai entendu votre station à Youngstown, Ohio (or other location) le 6 décembre, 1972 (or other date) sur la fréquence 540 kHz (frequency) entre 4:40 am et 4:48 am. (time) Inclus veuillez trouver un ruban d'enregistrement de votre station.

Si cela va en accord avec la politique de votre station, pourriez-vous, s'il vous plait, vérifier mon rapport?

Bien à vous,
(signature)

Days of the week:

Monday	lundi	Thursday	jeudi	Saturday	samedi
Tuesday	mardi	Friday	vendredi	Sunday	dimanche
Wednesday	mercredi				

Months of the year:

January	janvier	May	mai	September	septembre
February	fevrier	June	juin	October	octobre
March	mars	July	juillet	November	novembre
April	avril	August	aôut	December	décembre

ANNOUNCING.....

The debut of the new NRC Antenna Book, 60 pages of articles from reprints all about various types of antennas, will be available August 1st. Cost will be \$2.25 postpaid. This is the first of a planned series of reprint books as announced in a recent flyer to the membership. All of you who returned the questionnaire saying you'd be interested in this, please send your orders in to HQ NOW!! This book contains : The NRC FET Altazimuth Loop.... The NRC 2' Loop.... Direct Coupled Loops.... Alternative Methods of Air-Core Loop Amplification.... The Degenerate Loop.... The ECB DX'er's Beverage.... One Transistor Loop Amplifier.... Antenna Tuning Devices for Longwire Antennas.... The Space Magnet.... Balanced and Unbalanced Loops. All of this comes to you in handy DXN-sized booklet form for easy storage and easy reference, and at a price that's actually much cheaper than buying them in regular reprints. By the way, our present reprint stocks of these articles will only be maintained until we exhaust supplies of our current reprint list.....

musings of the members

editor.. Ernest R. Cooper
438 E. 21st St.
Carrier Route 56
Brooklyn, N. Y. 11226

AIAN DAVENPORT - 31 Madison Drive - Ogdensburg, New Jersey - 07439

My third Muse starts with the third month. But first, after reading an article about operating an SM-2 off a power supply, I decided to try it. It worked fine but the wire was a problem so I went one step further. I took six size-C batteries and using pieces of 1" bare wire I soldered them together. I used the wire because I couldn't get the soldering gun between the batteries very well. I taped these to the top of the SM-2 and hooked these to a spare 9V battery clip. The results were fantastic! It performed like it had a brand new 9V battery in it for so long that I decided to see just how long they would last. I left it on for over two weeks straight before the power level started to drop. (The radio wasn't on all this time!) These batteries weren't even fresh when I started. I had used them in a portable radio for about a month beforehand! I think that the fresh set I have on the SM-2 now may well last over a year! If anyone tries this be sure the polarity is right before you solder on the 9V battery clip to the batteries. You will probably need an extra length of wire to reach one end of the batteries because the leads on the 9V clip usually won't be long enough to reach both ends. Check a Radio Shack or any electronics store if you need a 9V clip. To DX: 3/26- WHJH-620 Pa. 8pm. 3/31- At 7pm WIKO -1470 N.Y. 4/5- 9pm, WOMB-1460 Pa. 4/7 was a fantastic night for Canada. I got two new provinces, N.S. & Man. 2am, CKCH, Hull, Que. dominating 970 in FF, CHNS-960, 3am, CKDM-730. 4/19- 6pm, WFIN-900; WITM-920 N.J., WINE-940 Conn. 4/21- 3pm, WVOX-1460 N.Y. 4, QTHE-1520 N.Y. 4/25- 11pm, CKLB-1350 Ont. 5/2, 7 pm, a new graveyard, WSNY-1240 on SSS. 5/5, midnight, I was surprised to hear someone giving WINS-1010 a hard time. I hooked up the SM-2 & got a shock - KLFK Ark. o/u WINS for State #33. 5/21, 9pm, WARE-1250. 5/22 3pm, WKOL-1570 N.Y.

cont'd on p. 39

CHARLES A. WOLFF - 4911 Proctor Road - Castro Valley, California - 94546

Greetings once again. After my last Muse, telling what I was planning to do this Summer rather than DX, I have a surprising amount to report. I'm sure I'll be way over my 20 lines. My remark about KFAC in DX NEWS 5/27 has gotten me more response than most reception reports - after ERC's comment, I got a phone call from CV's other NRCer, Rick Heald, then a card from Al Lobel in El Cajon - many thanks a,l for the suggestions, & I'm slowly but surely learning the proper attitude for DXing. Now, some DX. 5/24- KEGL, local, usually SS, but they have EE religious programs in the morning, v/c back on 5/29; mid-morning. 5/24- KCTY Salinas ID heard, in SS. 5/25- KAFY-550 Cal. u/heavy splash from KSFO-560. 5/26 early AM, KRDG-1230 again, no report again. Sun. night & MM 5/26-27, KHIS-970 rr-olddies for report, v/1 back 6/5; KMAK-1340 u/SS QRM, but enough for report; KGB-1360 report after checking tape for details, v/q back already; KONE-1450 Nev. report, new for me, but Rick says they're very regular here w/KEST off or nulled. 5/30- XEMO ID heard, no report. Interesting non-verie from KMEN-1290 (see, my attitude is better already)- they have a phone number (714-862-2530) you can call to hear KMEN - I tried it, very strong signal, I had to hold phone 1" from my ear - nice idea, but it's going to make them tough to verify - maybe a tape loaded w/QRM would do it. Other veries: KGEB-1230 v/1 - 6/3, what a night - KDAY & KYXI reports taken, unverified oldies for me, Plus KVOO-1170 & KBUY-1540 both for reports through off-the-air locals. PP/cs sent with both to see what happens. 6/4- KPOP Cal. up late w/ER, fighting KRIA for 1110, report w/PP/c. Rick says he's going to send in something for Musings; it's really been helpful having a long-time Dser locally to get tips. Totals now 140/59, up 37 heard from my first Muse four issues ago. DX have not died, out here at least. 73s.

STAN MORSS - Route 3 - Bradford, Massachusetts - 01830

No real DX & no veries - I did note an unID on 1580 @ 1:30am one day last week, one announcement @ s/off seemed to mention R. Tunetron- old rr "Yellow Submarine" & that type of stuff. Also noted 1560 CST or MDT station, soft mx & man & woman on announcements, no time to try & see if WJAB is WJBQ yet.

CONVENTION TIME IS CLOSE AT HAND - MAKE THOSE PLANS PRONTO! TOLEDO - AUG. 16-17-18

RONALD J. MUSCO - 16 Chestnut Drive - Windsor, Connecticut - 06095

Well, I'll say it - the Mexiglen pull-out is GREAT; another fine job by everyone concerned. Foxy's graveyard essay was informative & has resulted in a few new ones as has the Baseball Network Lists. June 9 and still another SM w/WWON-1240 R.I. s/on 6:02am w/AM & FM info. This completes R.I. for me w/15 heard and 12 verified. Oh yeah, Stan Morss, WMRC Milford Mass. is a pest here, having been heard every SM at s/on time when tried for. (What time do they s/on, Ron? -ERC) My credit union issues a Baseball Schedule Book and looking in it I saw that the Red Sox were out on the Coast 6/20 so I fired up the HQ-180 & went dial-twisting. Most interesting was on 1240 w/a weak one fading in/out looping NE/SW. Time was 1 a.m. & w/WOBB off @ 1:05 and the ONLY QRM from WCOU, WGBB, WWCO, a break from the network @ 1:15 resulted in a spot that mentioned Franklin, so report sent to WFIN for a much-wanted as I missed it on its TEST a few years ago V/1 & CM back confirms 'twas they w/RS of 5:43-11:07pm. Watch your papers here in the E, Red Sox & Yanks on the Coast in August, Mets & Phillies (I need WDLC-1490 which I believe carries them) will be there in July w/ night games so starting time should be around 11pm. I'll be doing some graveyard work soon. V/1- WHP, WALL, WWCO, WBRV, WJUN, WFAX. V/q- R. Paradise-1265 & PP/c, WWON-1240. 73.

DAVID KREINBERG - 517 Latshmere Drive - Harrisburg, Pennsylvania - 17109

Greetings DX fans. I can't explain it but I've been having unusually good CX & DX here (and I sure ain't complaining either!). I found a schematic for a signal booster so I built it & it works great. Might be a good idea to put it into the New Members Kit, for the new members. Now for DX: 5/17 - 9:52-10pm WIAE-1250 Pa. Terrible CX that night; storm approaching, much QRM. 5/25- 1:19-1:31am, WWL-870 Ia. fantastic signal, S-7. 1:38-1:40am, WBBM-780 Ill. which had a pretty good signal, S-5. 1:40-2, WJR-760 Mich. I listened to Act III of Mystery Theatre. 6/4- 5:10-5:25pm, WPPA-1360 Pa. had NX on. 6/6- 8:29-8:40pm, WKCK-1070 Pa., rr, very good CX, no QRM. 8:41-9:12, WEZ-1030 Mass. had some mx, mostly a Q & A period. 6/13- 8:14-8:30pm, WEEU-850 Pa. light mx, some QRM-M. 6/23- 11:24-12:03am, WGN-720 Ill. good CX, Old-time mx, end w/NX. 6/24- 6:27-6:45pm, WCMB-1460 Pa., some QRM. I first used booster. 6/25- 2:14-2:47am, WSB-750 Ga. good signal, some fading & QRM, rr, w/commentary (pros & cons), WX. 6/26- 10:23-11:19pm, WHAS-840 Ky., good signal, but was really squeezed between WLS-890 and local WSBA-910, tough time IDing. Well, C U all next time, 73, and keep DXing!

DON EGGERT - 15-D Greenhaven Apt. - Bowling Green, Kentucky - 42101

6/24. Greetings & salutations. I just recently got around to reading Bob Foxworth's fine article on graveyard DXing. That is an aspect of DXing that I've always had a mild interest in, but I am so disgusted by all the AN-ing. As the article mentions it really takes a lot of patience & good ole luck. Nothing of any real value heard here in the last few weeks w/the usual HNL that Summer brings. Seems as if we've had an awful lot of static so far this Summer. I've been mainly concentrating on daytime DX & SSS trying to boost my totals here in B.G. One of the drawbacks to loving a lot is you have to start over (if you desire to, that is) & it can be a real hassle to log those 200-300 regulars and semi-regulars over. Since starting DXing ECB in 1963 I've been in four locations & have had four logs. I tend to go along with the criteria mentioned in the 6/17 DX NEWS because arbitrary mileage standards (5,10,etc.) would not apply uniformly nationwide in that CX vary widely from place to place. Oh well, so much for philosophy. See you all in Toledo!

RAY ARRUDA - 6 Wilbut Avenue - North Dartmouth, Massachusetts - 02747

Greetings to all of you. I hope you are enjoying the Summer months. I have not DXed here seriously since the end of March. The only verie in has been from WBRI-1500 for TEST of last November. CE says in a note at the bottom of the letter he believes that my response was the most distant. He also sent a sticker and pamphlet. Ron Schiller: Thanks for the welcome into the NRC. V/q from WVAB-1550 for 1/20 s/off reception. PEM: Your rocker on 1300 besides WFBR could very well be nearby WAVZ. DX Season is getting closer. 73.

GOING TO TOLEDO? WALKING? SWELL, BUT YOU'D BETTER START NOW! AUG. 16-17-18

STEVE KENNEDY - 109 Pavonia Road - Nokomis, Florida - 33555

First off, sorry to ERC for using capital letters on this Muse but this old IBM typewriter has a shot ribbon. Now then, for my semi-annual Muse. NJPC, note my new address for DX NEWS - yep, I moved again. This time my wife & I have taken residence in a fire house. We live in an apartment that is part of a volunteer fire department. We get paid a salary & get the apartment rent-free including utilities for my services as a fulltime dispatcher and maintenance man. Pretty good deal, too. So now I can DX to my heart's content as we seldom have any fire calls in this town of 4,000. DX has been very slow, due to severe static because in this area there are more thunderstorms than any other in the U.S. I decided to stop logging DX, & only go after stations that can be heard well enough for verie. I had a new set of log pages made up so I make a new page for every station I DX for a verie. On each page is the usual DXinfo & space for program data. Also I note when the report is sent, when received, and when a f/up is sent. I also tape all DX. In regards to preserving recprds in case of a fire, flood, etc. I keep tapes, logs, and veries in a waterproof steel asbestos-line vault. RJE is very right in regards to having an LW in addition to a loop as the LW will improve the signal when the loop won't. I can estimate that I may be able to verie possibly 200 more domestic stations with my present gear. I have noticed it is getting very difficult to hear new DX as there are so many IA stations that are heard down here. I am getting the impression the area is not so good for domestic DX, & only fair for SW. However, I will remain in NRC as long as the NRC exists or I die first! As I say, join today, NRC all the way! MW DX forever! 73 & good DX, C U this Fall.

KARL JEFER - 109 West White Street - Carrollton, Georgia - 30117

A fair amount of DX to report lately, most of it being either SSS or daytime. CX seem to have cleared up a little lately, & I have had several good sessions in the past few weeks. Now on to DX. 5/24- WQXA-1140 Miami in briefly @ 12:50am. 5/25- WAGC-1590 Albany Ga. @ 9:15-9:26pm w/rr request show. 6/5 - Nearby WMMK-1310 West Point Ga. heard for first time @ 7:14-7:29pm w/c/w & ads. 6/10- WAGA-1130 Moultrie Ga. w/Jim Fowler Show, EL mx & ads 8:33-8:45pm when power was out. 6/10- 1110k really opened up. At 8:50pm WBCA Bay Minette, Ala. w/c/w till s/off @ 9. I was surprised to find they are owned by Faulkner Radio who also own local WLBB & WGA-1340 as well. Then @ 8:55, WEBS Calhoun Ga. heard barely w/s/off. WKDZ Cadiz, Ky. s/off @ 9:15 folo in short order by WKRA, Holly Springs, Miss. whp s/off @ 9:17pm. 6/16- WRFS-1050 Alexander City Ala. @ 7:51-8:01pm w/c/w; WGOC-1000 Walhalla S.C. briefly @ 8:32pm after WVOV-1000 Huntsville s/off. 6/17- I caught WENR-1090 Englewood Tenn. s/off @ 9pm o/KLRA. 6/18- ET of WMM-1090 Wilmington O. heard rather well here, ID noted @ 12:28am. 6/21- WEBK-1260 Blakely Ga. w/combo EF & f/c from 1:15 to 1:36am (this conflicts with f/c list, says they run 1-1:15am that day). Signal was very strong. Same night, WWOK-1260 Miami taped w/c/w, good signal, w/o WIV/WNDE 9:10-9:20pm. Finally, WIMA-1250 Charleston S.C. noted @ 9:47pm then gone. Here's a puzzle I can't figure out: WMGY-800 in Montgomery is IDing as "Z-103" of "G-103" (The jingles, etc. are like an Atlanta FM Top 40, WZGC, which uses "Z-93") I can't see how they get this out of their call letters, frequency, etc??? Strange. I'll probably be going out to Xallas around 7/1 for a few weeks. I plan to take the gear along this time in a spare suitcase. That's it from here. 73s.

EDWARD KREJNY - 6538 Belmeadow Drive - Middleburg Heights, Ohio - 44130

Was a pretty good season all told, w/a number of goodies added to the log. Strangely enough (for me, at least, hi!) most of them were domestics. Added (veries) KHYM, KBUY, KRVD, (Thanks to de Fish) R. Paradise-1265, CFFA, KWED, CKSM, CJFP, R. Globo, WKJD, CKAY, XEPRS, CJTR, WFAA, KWKH, CFML, HIBD -750 XERCK, CJRN, CJSO, KIRO, KPCR, CHNC, KDFN, KDKD, LS10, KNIE, KHOS, HO181, RJR-580, HILL, KTWO, KTRH, KALO, KEZY (loved that one) YVLX, KMPC (Thanks again, WOR!) WMLE, KAYQ, KKIM, HJCY, I was disappointed not to get returns from KLIK, HJGB, WIPR, WCMF, (50w PSA TEST) KRWW, HRCF, HIBE, XEAO, FJZD, WLXC, KGCK, KFAV-DX, KBEK, WJDY, HJDP, KDAY, (one of my most wanted) CHLN, ZDK, (needed for a new country - been stuck at 71 for ages), KDDR-DX, ZNS3-1060. Oh well, you win some and you lose a lot more. I am now at 2,378 veried, so I guess I'm still about 10 years behind ERC, hi. I hope to see you in Toledo. Best DX & 73s.

WELL, ED KREJNY 'LL BE THERE - HOW ABOUT YOU? TOLEDO'S THE PLACE! AUG. 16-17-18!

JEFF FALCONER - Box 63 - Clinton, Ontario - NOM 110

CX seemingly have deteriorated as only DX has been of late CHAC-1480 w/NX in FF, 12:03am, 6/3 fair, o-u mess. I have noted Morse Code last two Wednesday evenings 9-11pm, 6/5 & 6/12, on 144lv. Could be beacon interference but I never noticed it before. Maybe someone with a code practice oscillator. Recent veries include v/f- CKKW-1320 who says 1090 CP delayed till July sometime, WIID-1090 who has exclusively ethnic programs. v/1- WENL. Someone a few bulletins back was wondering who the one on 1360 was w/Mor. This is probably WEXZ who now IDs as "The station w/good listening mx 24 hours a day." They had me fooled too so I waited out an ID. Not much else to say so 73s & maybe C U in Toledo.

BILL HARDY - 2301 Pacific Avenue - Aberdeen, Washington - 98520

I promised my totals for this second Musing. They're all heard totals, as I've never actually sought veries and don't usually tape my DX, but concentrate on hearing new stuff. I actually have only ONE verie, from WBZ-1030 in 1963, for a letter I wrote w/no return postage to "WV, Boston, Mass." - how embarrassing! Anyway, since roughly 1960 I've heard 36 states (no D.C. yet), five provinces, & 11 countries including U.S., Canada, Alaska & Hawaii, for a total of 535 stations as of 6/21. These totals are from Aberdeen and the nearby beach 18 miles W - they don't include Pullman, Kennewick, Astoria, or Panama, where I've also DXed in the past. On now to my DX since joining NRC: 6/7- State #36 rolled in @ 3:55am, WIRE-1430, Ind. w/c/w balls & long slow fades, o/u possible WIL & maybe another. "WIRE" & "Indianapolis" heard @ 3:55. Someone on 1430 had NBC NX tape-delayed 3:45-3:50; was it WIRE, or someone else? 6/11- My first Alberta graveyarder, CJPR-1490, heard w/MDT TC & "C-Jock" ID, // -CJOC-1220, rr, 4:03am. I usually hear KBZY w/rr, KRNR w/tele-talk, & CFWB after local midnight on 1490. 6/20- 12:29-1:33am, KHR-1340 atop w/BB between Hood River & The Dalles ("The" is capitalized and part of town name; "Dalles" rhymes w/'gals") about 20 miles away. Spots for "KHR Sportscenter Club" w/Hood River & The Dalles businesses, & it's entirely possible they might have still been on kw because they were strong till after ballgame end @ 1:30 NX when they went way under. I think I heard them s/off w/"Portals of Prayer" 2-2:02. Um KLOC-1340 s/off 1:09 u/KHR after UPI & Oregon NX & sports, 1-1:09. Since we've already used up our vacation time this year, looks like Nancy & I will attend only the Seattle IRCA Convention. I hope some of the NW NRC members can be there. 73 till next issue, CX permitting!

JAMES E. CRITCHETT - 1103 North Street - Yreka, California - 96097

Between 6/4 & 6/22 no reception reports were sent, & no verifications received except the ones picked up in Spokane for Clarence Freeman. No DXing on the bus, and w/a roommate, no DX. I just listened for the NX & WX. I did visit CHNL in Kamloops, B.C., affiliated with ONLY CJNL-1230 Merritt and CINTL-1400, Princeton; not CIVH-1340 Vanderhoof & CJCI-620 Prince George. CJCI said no connection w/CHNL, but CIVH-1340 Vanderhoof is a satellite. No other Canadians were visited. The second day in Spokane I went out to KJRB-790 & KEZE-1380 * obtained veries & Cms. Maps also from KHQ-590 & KREM-970. Office manager signed verie at KJRB & NX director at KEZE. KJRB seemed well organized; KEZE an anthill, w/KPEG signs still up. KHQ has a sign out front saying "Visitors Welcome"; quite accomodating CE. The front desk secretary at KREM did not know what a CM was; she finally got one from another woman. Any oldtimers remember V. Eugene Cameron in Spokane? He's in business for himself as Real Estate Developer. He said he couldn't lose time from lack of sleep, so he quit DXing about 15 years ago. Very fine fellow. Expo-'74 was interesting, but Spokane HOT! No other stations visited. I'm leaving today for the Black Hills, Pueblo, Zion & Las Vegas. Third big trip will be to Renton, Wash. for the IRCA Convention. I will try to keep notes on anything interesting to others, and report to Ernie. Y'all do the same, and have a good Summer.

Alan Davenport, cont'd from p. 36

(no name or address, evidently a continuation of somebody's report on second sheet) 4pm, WHYL-960 Carlisle, Pa. & WGA-1100 Bethlehem. 5pm, WNAE-1110 Norristown Pa. 5/23 at 1pm, WPAZ-1370 Pottstown, Pa. & WBX NYC, on 1380 in SS. 5/25 - 6 pm, WNAK-730, Nanticoke Pa. 5/26- At 10pm, WOH-1470 Convention City (TOLEDO) 6/5, 6pm, WROW-590 Albany N.Y. u/WARM. QSL return now 100% - all four or them! WSM for daylight reception, KFI, R. Belize & 4VEF after 2 1/2 months. Totals 241 w/33 states & five provinces, and seven countries. Don't give up MS DXing in Summer - I've had many surprises in July & August, things you wouldn't believe

RON B. SCHILLER - 1951 N.E. 28th Court - Lighthouse Point, Florida - 33064

Twenty-three veries in this month: v/1- WDSR-1340, WMGR-930, WDEF-1420; KSIG-1450, WTAN-1340, WZNG-1360, WIBR-1300, HJHN-960 & HJGJ-1280. v/f- WBRI-1500, WUDE-1260, WHOO-990. v/g- PZX26-725, Surinam. PP/c: WGSO-1280, WAXE-1370, WZST-1410, WAPR-1390 & WYND-1280. Florida total at 147. 5/26- Unn KLOU-1580 u/local WSRF @ 6:15am. 5/27, unn WSPD & WMFJ-1450 battling @ 2:25; WDEW-1500 ET 3:18. UnID on 805 that PM along with the YN on 1595. 5/29- WIBR-1300 6:22-6:30. 5/31, one of the best catches here yet, KSIG-1450, Crowley, Ia. atop for about two minutes w/a local one-minute ad 6:25-6:27! Veries says they were heard in Hawaii once! 6/1, long-wanted WSBW (World's Safest Bathing Beach) s/pn 5:59 u/WNVY/WJNO. 6/2- CMKZ-1430 s/on 5:03. 6/6, unn WWNS ET @ 5:28. 6/7- WSEB-1340 tough copy 6:02 s/on. 6/8- WIYS-1340 s/on @ 6 o/u WDSR, AFTRS, WPER & Cuban! 6/10- WIAT-1330 s/on 5:57; WWAB buried 'em @ 6. 6/11- Two good-ies: WHAN-930 Haines City 6:14-6:19, although only 160 miles away I never heard them before, so I then looked for equi-distant previous unheard WRKT-1300 & sure enough, they were giving WFFG & WSOL "what-for" 6:33-6:52, ID after each record. 6/17- WPAS-1400 u/local WFTL 6 04-6:10. 6/24- WSRF overslept (I had dreams of them off permanently but alas, they s/on @ 6:45, usually NSP) unn KLOU heard till WCCF s/on @ 6:30. WKIG briefly @ 6:43. 6/25- WMES-1570 s/off 8:45pm. WEYF-1580 s/off 9pm. 6/26- Unn KGFT-1530 s/on 6. 6/27- WYSE-1560 s/on 5:59, just ahead of WTAI. HCEW2-995 strong 9-9:19pm w/EE pop records.

ERNEST R. COOPER - 438 East 21 Street - Carrier Route 56 - Brpoklyn, N.Y. 11226

While I can still brag about it, my Florida verie count is 177, hi, Ron! Well, we still diddle with our dials on MMs, but nothing new seems to find its way in. It could be me, though, I suppose. MM 6/3- WKTQ-1320 topping here w/female DJ, or rather talk-master, or talk-mistress. Missing today were WFBR-1300 & WDRC-1360, normally AN MMs. MM 6/10- UnID on 1460 w/MoR, no announcements, 1:15am & on. One of worst pests was off today, WPAT-930, but had OV on. WBEN came through it nicely w/RS & CBS NX. CPFL-980, unn, atop here @ 2. WHAS was on OC w/occasional mx on 840, while there was a tele-talker topping CFTR on 680. Who's this? The 645k Paraguayan was in this ayem quite well, but I can't pull that ID yet! Drat! It's been IDed so many different ways by others I'll not take a chance with any of these till I hear it with my own lily-white ears! There was very weak mx on 1560 @ 2:50am, oo weak to ID - they and me both. Emisora Montserrat-650 doing nicely @ 2:45. A "W" station DTing on 1530 @ 2:53 & using mx also, probably WPTI who tests almost as much as WDEW-1500, but I'm not sure. I probably missed a goodie. MM 6/17- WPTI-1530 was IDed ETing today, unn, 2:29. KKJO-1550 same @ 2:32. WABC-770 s/off @ 2am. WIEG-990 was ANing @ 2:04 - are they NSP now? MM 6/24- No WVNJ-620 today. A TT up/down, off/on, @ 1:58 & on, ID @ 2, power of 1 kw., but phooie - I didn't write down the frequency! Brilliant, eh? WIEG-990 RSing w/rr @ 2, & a TT on 1340 @ 1:39-1:46 & on. Mother is still in the Nursing Home - no June vacation in Provincetown this year- I hope to make it there in September. Sure would be nice not to have to come back here. Oh well, C U N 28, & nopefully, in TODDLE-0.



Radio Tegucigalpa

APARTADO POSTAL No. 376
TEGUCIGALPA, D. C. HONDURAS, C. A.

BROADCASTING STATION
United Arab Emirates
SHARJAH



إذاعة
الإمارات العربية المتحدة
الشارقة

هاتف: ٨٥٥٠

ص. ب. ٧٠

التاريخ

Phone: 22866
4650
P O. Box 70

Date: February 28, 1974.

Sharjah transmitter, United Arab Emirates, 25° 20'N, 55° 21'E.

Transmitter : 50 KW output power in the MW band, 1535 KHz.
Final stage : two TBL 12/40 tubes.
Modulation : high power modulation with two final modulator tubes TBL 12/40.
Feeder-line : 230Ω asymmetrical cage feeder, length 130 metres.
Antenna : 1/4 λ vertical radiator.
Inauguration : 1 October, 1972.
Progr. hours : All days except Fridays,
02.30-06.30 and 08.30-19.00 hours GMT.
On Fridays,
02.30-19.00 hours GMT.
Manager : Mr. Saeed Emarah
Chief Engineer : Mr. M. El-Shafel

Dear Mr. Gregg A. Calkin,

We were very pleased to receive your reception report dated 3/2/74. It is a pleasure to know that the reception of our station in Islamabad is quite good. We confirm your report as it was according to our station log. A little delay in our reply is regretted. We would ask you to send us reports also in the future to give us an idea about the seasonal changes in the quality of the received signal. Thanks a lot for the report.

Verie from Gregg Calkin, Islamabad, Pakistan

Yours faithfully,

M. Arshad Rana.
Mahmood Arshad Rana.

THE 1974 N. R. C. CONVENTION !!!!!

Yes, it's almost at hand ! It will take place at the RAMADA INN in PERRYSBURG, OHIO (at the junction of U.S. 20 and Interstate 75) - if you don't have a map or can't find it on a map, please indicate this on the form below, and we'll send you one.

REGISTRATION DEADLINE IS JULY 31st, however if you cannot get it to us by that date due to not knowing in time whether you'll be able to come, etc., send the form in anyway. You may or may not have to miss out on the banquet, but we'll see that you have a place to stay somehow. One of us was in that same boat four years ago, so we know what it's like, hi, but send us the form as soon as possible. And, too, maybe a couple of people will have to drop out, thus opening up a space.

FRIDAY & SUNDAY are informal days, with registration taking place on Friday. We will also have late registration on Saturday. SATURDAY will include station tours, a tech session, the banquet (7 p.m., and ALL YOU CAN EAT, and NRC first !), the guest speaker, the business meeting, DX Quiz and Auction. ((That's a lot of stuff for one day ! - HQ)) . Our DXpedition will take place either Saturday or Sunday night, per voting below.

HOW MUCH WILL IT COST ? This "truly western Convention" will surely be among the most reasonable-costing conventions in recent years. Our expenses are a constant \$ 160 (approx., and subject to possible minor last-minute revisions), so the registration fee will be lower if more people show up. Participating in everything, it will cost you:

*room - \$14 /single; \$17/double; \$20/triple; \$23 for 4, \$26 for 5 (MAXIMUM)

*banquet - \$7.15 includes everything - ALL YOU CAN EAT - fare optional, vote on form below, for catering purposes only. Banquet itself is also optional.

*registration - subject to change - we will divide our costs by the number of people in attendance, so if 50 people come it could be as low as \$3.20.

*total cost - for one person, spending two nites at the motel would be \$35.15 plus the nominal registration fee noted above. (Transportation & other meals are, of course, extra). If you room with someone, it is possible to knock \$10 off that figure!

CAN'T MAKE IT BUT HAVE SOME AUCTION ITEMS ?? Send them to Gary Siegel, 2728 106th St., Toledo, OH 43611. He's handling auction items.

INFORMATION REGARDING TRANSPORTATION: As mentioned above, be sure to indicate on the registration form if you will need a map. We'll send them to all who request them. If you're not driving or riding but using commercial transit, (plane, bus, train) it will be your responsibility to work out the schedule, but these pointers should help. If you FLY and arrive at Toledo Express Airport, one of us will personally pick you up and bring you to the motel free, it's not that far. If, however, you fly into Detroit Metropolitan Airport, be advised that the last bus of the day from "Metro" to Toledo leaves there at 5:10 pm CDT. Buses leave "Metro" for downtown Toledo at 11 am, 2:05 pm, 3:45 pm, and 5:10 pm on Friday, and on Saturday all except the 3:45 are operating. Cost of the bus trip, which lasts about 1 1/2 hours, is \$3.45 one way. If you're coming from outside the United States, do allow at least one, and probably two hours for Customs clearance. They're not too fast up there at "Metro", hi. If the only way you can make it to the convention is to arrive at "Metro" too late Friday nite for the bus, we can arrange a way for you to get to Perrysburg, but there will be a charge for this as the round trip is over 100 miles.

Also, if you take a bus or a train, or take the bus from "Metro" to Toledo, we will pick you up at the bus station, but be sure to specify whether you'll be at the Trailways station or the Greyhound station ! In other words, as long as you can get transportation to Toledo or to Toledo Express Airport, somehow, we can pick you up at no charge. If you do fly directly into Toledo, do NOT take the limo "downtown" as it would be a waste of \$3.90. The airport is just as close as "downtown" to the motel. We'll pick you up there.

The form below is the official convention registration form. This should be returned, as noted above, before July 31st. Send it to Dan Myers, 2650 104th St., Toledo, OH 43611.

-
- 1) NAME _____
 - 2) ADDRESS _____
 - 3) Room Wanted: Single (\$14) _____; Double (\$17) _____; Triple (\$20) _____
Quad (\$23) _____; Five (\$27) _____.
 - 4) ROOMMATES: Match me up with _____
(include names, or types of persons) DO NOT match me up with _____
(again, names or categories, etc.)
 - 5) DO YOU NEED A MAP TO FIND THE MOTEL ?? _____
 - 6) Do you want in on the Banquet (\$7.15) _____ If YES, indicate your preference among: chicken _____; seafood _____; roast beef _____.
 - 7) DXPEDITION: Do you prefer Saturday _____ or Sunday _____ night ?
 - 8) ARRIVAL DATE, TIME: _____ DEPARTURE DATE, TIME _____
 - 9) TRANSPORTATION: Car _____; Plane _____; Bus _____; Train _____;
Other _____ (please specify) If combination, check all blanks applicable. 10) Will you need a convention host to pick you up within Toledo to bring you to the Inn ? _____ IF YES, answer next question:
 - 11) Where ? Greyhound ? _____; Trailways? _____; Express Airport ? _____;
Train Station ? _____; Other (please specify): _____.
 - 12) If answer to #10 was YES, at what time is pickup desired ? _____.
 - 13) WHO will be coming with you ? _____.
 - 14) If you will not be staying at Ramada, please check here _____.

Please add all additional comments or answers below or on a separate sheet.