



DX NEWS

*the magazine of the
National Radio Club*

— SINCE 1933 —

VOLUME 51 ISSUE 27

June 11, 1984

NRC CONVENTION REGISTRATION DEADLINE is fast approaching!! When is it? **AUGUST 15th**. So don't put it off too much longer!! Rip out page 47 and send it off to Wayne, TODAY!

IRCA CONVENTION (Who?) Registration form can be found in this here issue, page 46. Where is it being held? Toledo! (Never heard of the place!, apparently you've never watched M.A.S.H., hi!)

From Ray Cole, Bob Flick and I have been running some experiments with preamps, and have stumbled onto a discovery that may be of interest and value. I wound some air core coils with the same number of turns as ferrite coils would use, and came up near the same frequency and tuning more sharply than ferrite! First, we double checked and verified the results, then discovered the reason. I have been using vinyl garden hose as coil forms - handy, very cheap, easy to punch holes to push wire through, with a hot push-pin. The vinyl does it! So, sharp tuning coils with fewer turns and no directional pickup effects can be wound on easy to use coil forms that cost about \$2.00 for 50 feet! The hose I am using has a solid green outer finish, but is grey vinyl otherwise. It is 1/2" inside and 5/8" outside diameter, with no cord in it, and is rather stiff, even when warm. I hope this information proves useful to experimenters."

Just found a note, buried under a pile on my desk, saying that KOXN has been off the air since Oct '83, due to financial problems. This per Mike Riordan. (Anyone having more current info, please pass it on to us HQ) (Thanks, Mike) Speaking of Mike, anyone hear the stn or something on 520 KHz ??? Mike, and Radio West aren't sure either what it is? Anyone in the general area and listening around 520 KHz, let us know what you've heard, what was heard was Spanish, any ideas anyone???

WMBE-1530, Chilton, WI is now on the air with Adult Contemp. This per John (DX MidAmerica) Rieger.

This note from Radio Monitors International of India, IRAQ, Flutter jammers have been noted on a total of 25 different MW channels since the first observations in January this year. A total of 6 SW channels have been observed with this same style of jamming. These jamming transmitters on MW and SW are apparently intended to obliterate unwanted broadcasts coming into Iraq."

DXCHANGE Remember send your lists of sale items or want items to Russ Edmunds, next Column will appear next issue, so you've got till June 25th to get your stuff into him. Here's an item that we forgot to insert last issue- **FOR SALE- DRAKE R-7, Tunes 18KHz - 38MHz continuous, w/4, .2, 3, & 3 KHz filters & NB7-A Noise Blanker. Mint as New - \$800.00 (Dick Truax, 3083 Gleeson Ln, Louisville KY 40299 502-491-2871)**

CPC TEST (ALL TIMES ARE E.L.T.)

June 25 WGAR-1220 KHz Cleveland OH, 8000-8300. WGAR will conduct a Monural & Monday Stereo Audio Proof. Reports to: WGAR, Robert Reymont, 9446 Broadview Road, Cleveland, OH 44147. This per a Douglas Orf.

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THE WORLD'S OLDEST AND LARGEST ALL MEDIUM-WAVE DX CLUB

MORE NRC CONVENTION ITEMS - PAGE 45

AM SWITCH

JERRY STARR
C/O WHOT RADIO
401 N. BLAINE AVENUE
YOUNGSTOWN, OHIO 44505

CALL LETTER CHANGES

Old call:	New call:	Old call:	New call:
580 WAGR NC	Lumberton WTSB	1410 WFTE IN	Lafayette WCFY
630 KGND WA	Edmonds KCIS	1420 WRMV NY	Herkimer WMYL
790 KXQR CA	Clovis KXTC	1430 WWHK MI	Mt. Clemens WBRB
850 WEAT FL	West Palm Beach WCGY	1450 KYOU CO	Greeley KGRE
880 KMRK WA	Seattle KIXI	KTXH MT	Whitefish KSKR
890 *New MS	Ridgeland WYAI	1460 WNV1 IN	North Vernon WINN
970 WMVN MI	Ishpeming WUPY	1470 KRCB TX	Abilene KFQX
980 *New AK	Kenal KKEN	1490 KDBM MT	Dillon KDBI
WKLW NC	Leland WAAV	1510 WKAI IL	McComb WLRB
1130 *New AZ	Prescott Valley KLKY	WDJD MI	Jackson WJCO
1140 *New KY	Brandenburg WMMG	KNCI TX	Boerne KYCS
KSKS TX	Conroe KMUV	1520 WEXM VA	Janesville WKRE
1170 WCRR NY	Cornwall WVSG	1560 *New NE	Imperial KBRL
1190 WBMJ PR	San Juan WXTO	1570 *New WI	Holmen WKBH
1230 WINF CT	Manchester WKHT	1580 KLTR OK	Blackwell KOKB
KRNS-OR	Burns KZZR	WPJS SC	Orangeburg WORG
1240 WINN KY	Louisville WLLV	1590 *New AZ	St. Johns KQZE
1260 *New AK	Dutch Harbor KBEI	*New KY	Gray WALY
1270 KTLK ID	Twin Falls KTFI		
1340 WTSB NC	Lumberton WAGR		
WAAV NC	Wilmington WBMS		
1400 WJQS MS	Jackson WOAD		

issue's "correction", KSLR remains on 630 in San Antonio. KIXI-880 never went to the newly granted KMRK, will stay with KIXI. KSKS-1140 never used previously granted KXLC and will become KMUV. Application and grant of new calls for two previously off-the-air facilities should herald their return to the airwaves: WBRB-1430 and WJCO-1510. No word on new calls for the now-dark WRJZ-620 although a new owner has been found.

APPLICATIONS FOR NEW STATIONS

820 CO Manitou Springs: 250 D1
CO Widefield: 1000 D1 (corrects last issue's "Winfield", both are suburbs of the Convention City, Colorado Springs)

GRANTS FOR NEW STATIONS

980 AK Kenal: 1000/1000 U1
1200 AK Dutch Harbor: 500/500 U1
1570 WI Holmen: 1000 D1
1590 KY Gray: 500 D1

APPLICATIONS FROM EXISTING FACILITIES

870 KFJZ TX Fort Worth: power to 1000
1060 WCFB MS Tupelo: power to 1000
1150 KQQQ WA Pullman: add 500 watts night, U4
1190 KEZY CA Anaheim: power to 10000/2500 U4, move XR
1290 WDSG IN New Albany: add 1000 nights
1360 WCHQ PR Camuy: night power to 1000
1380 KAUL AR North Little Rock: night power to 5000
1420 KPEL LA Lafayette: night power to 1000
1450 WTHU MD Thurmont: night power to 250
1480 WCNS PA Latrobe: day power to 1000, U4
1520 WARR NC Warrenton: power to 5000
1580 WZKY NC Albermarle: power to 1000

GRANTS TO EXISTING FACILITIES

810 WPED VA Crozet: power to 1000
1120 WQXM GA Gordon: relocate XR (corrects last issue's listing of WQXM on 1560)
1140 KVL1 CA Lake Isabella: power to 1000
WPLX TN Fayetteville: relocate XR
1220 WTKC GA Rockmart: taller antenna
1370 KAPB LA Marksville: increase antenna height, reduce radiation
1420 WHYNN NC Mayodan: power to 1000
1430 WBMK TN Knoxville: power to 5000
1470 KWRD TX Henderson: power to 5000
1490 KOAW NM Ruidoso Downs: changes in antenna system
1550 KLFJ MO Springfield: power to 5000

OTHERNESS

830 In granting the new Orange, CA station, as noted last issue, the FCC has also dismissed the applications for this frequency in La Mesa, Santee, La Mirada, Oceanside, Los Angeles, San Jacinto and San Marcos, all CA.
1060 WNPC TN Newport: FCC returned application for move to 1180 kHz.
1230 WENY NY Elmira: FCC returned application for 1200 kHz.
1460 WFAB PR Juncos: FCC DISMISSED application for 770 kHz.

Recently we have heard from several semi-new members about several of the listings here in AMS, so to review for newer NRC members: We list grants for changes in antenna heights/systems that might not affect the station's pattern or coverage due to the fact that any antenna change requires a certain amount of on-the-air testing. This is to alert you to be watching for some ETs from these stations. The difference between an application being RETURNED and being DISMISSED is considerable. An application may be returned for any number of reasons, often mistakes or omissions on the paperwork that is required. This application can be resubmitted to the FCC with the necessary corrections or additions. Many applications that are returned more than once finally result in a grant. On the other hand a DISMISSED application is one that the FCC will not accept for filing or consideration. There can be a multitude of reasons an application can be dismissed but the end result is that the application is dead.

73 and Good DX,

Jerry & BKF
Jerry Starr & Buffalo K. Foonman

NRBA Finds 10.4% Of AM Stations In Stereo

An NRBA survey of 1255 AM stations nationwide shows that 10.4% are currently broadcasting in stereo and another 2% have stereo transmitting equipment on order. Of non-stereo stations, about half (48.5%) don't have stereo capability (boards, etc.), while 36% are equipped for stereo and 33% are now converting.

In terms of numbers of stations, Motorola is leading the four-way race for AM stereo excitors, according to NRBA. Motorola is used by 40.5% of AM stereo stations, followed by Harris (29.8%), Kahn (23.7%) and Magnavox (6.1%).

In two weeks NRBA will publish a more detailed analysis of the stereo thinking of AM broadcasters. The trade association sent its survey to every AM station in the United States and received responses from 26.4%.

1605-1705 kHz AM Expansion Set For 1988

The FCC is seeking public comments as it prepares for two upcoming international conferences that will expand the AM band by adding service between 1605 and 1705 kHz. A preliminary meeting of Western Hemisphere nations (Region 2) will be held in 1986, while the actual expansion plan will be dealt with at a 1988 session.

The Commission wants comments by June 29 and replies by July 20 on a wide range of issues, such as power limits, signal protection, encouraging the manufacture of AM sets to pick up the new stations, and how to move existing non-broadcast services, like Traveler's Information Stations, out of the band.

The FCC has already decided to pick locations for new AM stations using the list of 3000 communities needing radio service that was used in Docket 80-90 and at the 1981 Rio conference that killed 9 kHz AM spacing. The Commission said it will seek an "appropriate balance" to avoid interference problems created by the need for higher power to achieve sizeable ground-wave coverage at the high end of the AM band.

SKYWAVE PACT REACHED

R&R Friday, May 11, 1984

Daytime Broadcasters To Merge With NAB

After resolving key legislative and debt issues, the Daytime Broadcasters Association (DBA) and NAB last week reached agreement in principle for DBA to merge into the larger association.

Under the agreement finalized in Las Vegas:

- NAB will pay off up to \$40,000 of DBA's estimated \$70,000 debt for legal and engineering fees. However, DBA must try to reduce the debt as much as possible through daytimer contributions.
- DBA will attempt to have pending daytimer legislation modified to drop language that would end skywave protection two hours pre-sunrise and post-sunset.
- NAB will publish a monthly daytimer newsletter and set up a 12-member daytimer committee that will have substantial, but not complete, autonomy.

NRBA Declines To Pick Up Tab

At NRBA, which also made a merger offer, Sr. VP Tom McCoy commented, "We understand that they had a debt to retire and our offer didn't involve retiring that debt and NAB's did." Paying off DBA bills with NRBA funds would have been "inappropriate," he said, although NRBA was ready to provide fundraising assistance and give "complete and total autonomy" to a daytimer committee.

DBA President Jim Wychor of KWDA/Worthington, MN said he hopes the merger can take place in June or July. But first DBA must complete its Docket 80-90 comments and await a resolution to the threat

by the Association of Broadcast Engineering Standards (ABES) to appeal the FCC's most recent grant of higher post-sunset daytimer power levels.

Skywave For Study Tradeoff

Since NAB could not embrace legislation that would create interference for many of its clear channel members, the key to last week's compromise was DBA's offer to try to convince Sen. Larry Pressler (R-SD) to drop the portions of S. 880 which would end skywave protection for two hours on each end of the day.

Wychor said DBA will ask Pressler to turn the measure "into a study bill to have the NTIA (National Telecommunications & Information Administration) or some other impartial body study the existing skywave to see if it should be a viable part of our communications in this day and age. There are honest differences of opinion between daytimers and clear channels. If there's a skywave audience, we want to find out what it is, who it is and how big it is."

Wychor said NAB will give the new daytimer committee "pretty much a free hand" but conceded that "total autonomy would be rather a misnomer." On a "highly charged controversial issue," he said, daytimers might have to work outside NAB as individuals.

Tennessee Media To Acquire Dark WRJZ

Tennessee Media Associates (TMA), a new corporation owned by Salem Media Group, has agreed to assume \$700,000 in debts owed by WRJZ/Knoxville, which went dark two weeks ago, to former owner Basic Media Limited, pending FCC approval.

WRJZ, Inc., formerly operated by Chicago-based programming consultants Earl Sherwood and Bill Hennes, filed a bankruptcy petition a year

ago. According to Station Manager Marty Shans, a court-appointed trustee, Tom Dickenson, "determined that the cash flow was insufficient to continue operation."

The station becomes TMA's first property, although parent Salem Media Group has interests in WEZE/Boston and WHYI/New York.

WRJZ, which is licensed to operate with 5kw at 620 kHz, programmed an Oldies format following a brief period as a Country outlet. In the late '70s, WRJZ was a highly-rated CHR station. TMA has indicated it plans to install a Christian format following the expected July takeover.

CIH Gil Surety Realty brokered the transaction.

DOMESTIC DX DIGEST

DAVE SCHMIDT
42 CHELWYNNE RD.
CASTLE HILLS
NEW CASTLE, DE 19720

Here is the NRC column which is almost as exciting as snake water! When sending your items in, type or neatly write, skip a line or two between items, EDT, and anything else you can think of that'll help me put the column together (other than a visit to the shrink!). And away we go:

SPECIAL:

- 1240 WLLV KY LOUISVILLE - Now noted with these calls, format is MYL, ex-WINN. (EB-KY)
- 1250 WMTR NJ MORRISTOWN - As of 5/24, station officially went 24 hours, has been staying on late since 5/21. (BS-NJ)
- 1260 WNXT OH PORTSMOUTH - 4/15 0730 noted w/AM/FM s/on w/instr. SSB, change in Sunday s/on time. (DS-NC)
- 1360 KZUN CA MODESTO - 4/2 0034 w/ID running Heartline program, ID at 0200 then into new CW format, ex-KPIV. (DKK-CA)
- WEBB MD BALTIMORE - Per verie, power is 1000 D3, not 5000 as listed, has CP for night pattern, still awaiting OK on day pattern w/5000 watts. (JM-PA)
- 1520 WRID PA HOMER CITY - Station is 500 D3, main lobe goes SE towards Johnstown, expect grant on 1000 soon per v/l and CM. (KG-PA) Ditto. (JM-PA)
- 1570 WQTW PA LATROBE - 5/17 1410 whils't in car in parking lot, heard CW music, ID as "The solid gold sound of the brand new 16 Q", noted for 10 minutes then off, may be on permanently by the time this gets printed. (JM-PA) Highly likely! (DS)
- 1580 WHEX PA COLUMBIA - 5/10, 5/12 0230 fair/good w/probably the PM side, ID for ET, some TT, soft rock and "Station of the Stars" mention, didn't recognize right away. (JM-PA) Per JM note, noted 5/27 1445 w/rock oldies/MoR, "Central PA's WHEX" ID, o/WTYO on longwire, no sign u/WTYO on loop, seems to be running the Satellite Music Network. (DS-DE)

EMERGENCY BROADCASTS:

- 940 WNRG VA GRUNDY - 5/8 0100 noted w/CD items on flooding, anc'ts, updates, CW/MoR music, weather, noted off 0200. (JM-PA)
- 960 WPRT KY PRESTONBURG - 5/7 0340-0410+ on AN w/flood info and pop music, usually o/WFIR/WELI. (KG-PA) 5/8 0148+ noted w/flood info, mentions of Pikeville, Paintsville, very distorted audio, soft rock music, up dates, also on FM. (JM-PA)
- 1550 WIRV KY IRVINE - 5/7 0123 xln't w/flood info, tornado watch until 0600 naming many counties, CW/bluegrass music, AP news.(JM-PA)
- 1580 WTTN WI WATERTOWN - 4/30 0100-0118 noted w/broadcast of NOAA weather radio, couple of local breaks, fair w/"The tone of 1580".(DS)

DX TEST:

- 1460 WBUC WV Heard: DS-DE
Not heard: JM-PA (due to DX NEWS getting here later!)

FREQ. CHECKS:

- 2nd Fri....WCHE-1520 (4/13) 0105 noted w/infamous pulse tone, good thru WKBW. (JM-PA) Moved due to vacation sked this time. (DS)
- 3rd Mon....WFTH-1590 w/classical music, strong. (DS-NC)
WVFC-1530 w/TT o/WCKY. (DS-NC)
WFBG-1290 w/TT. (DS-NC)
WBCB-1490 w/TT, good signal. (DS-NC)
WCHE-1520 (May) 0030 weak way u/WKBW w/pulse tone. (JM-PA)
- 3rd Tue....WJUN-1220 w/TT, ID good u/WGAR 0025. (JM-PA)
WESH-1590 not heard. (JM-PA)
WKEN-1600 not heard. (JM-PA)
WHOL-1600 not heard. (JM-PA)

MIDDAY - MIDNITE:

- 530 TIS DC Washington National Airport - 4/7 2020 w/traffic info. (EB-MD)
- 540 CJSB ON OTTAWA - 4/7 2032 poor but alone on channel w/program on Buddy Holly. (EB-MD)
- WETC NC WENDELL - 4/11 1629 good w/local ads, CW music. (EB-NC)
- 550 WKRC OH CINCINNATI - 4/6 2159 very good o/Cuban w/teletalk, ID, local news. (EB-OH)
- 580 WCHS WV CHARLESTON - 4/9 2228 fair o/WGAC w/local ads, Cincinnati Reds baseball. (EB-VA)

1090.am  Gospel

- 590 WGTM NC WILSON - 4/9 2232 fair o/Cuban w/rock music, ads. (EB-VA)
- 610 WIP PA PHILADELPHIA - 4/10 2034 good/fair o/others w/PA Primary returns, ID, tele-talk. (EB-VA)
- WGSN AL BIRMINGHAM - 4/15 2357 good w/Golden Age of Radio program, ad, promo/ID. (DS-NC)
- 630 WMAL DC WASHINGTON - 4/9 2242 fair/poor signal w/promo then lost to Cuban. (EB-VA) New baseball team? (DS)
- KSHR OR COQUILLE - 4/4 2059 w/s/off, "K-Sure ID" w/invoke to tune to FM, nice signal in very tight KOH/KIDD null, moved ant. and gone! (DKK-CA) Somehow I just didn't hear this! (DS)
- 640 WWLS OK NORMAN - 5/8 2330 CW music, ID, holding it's own o/WHLO and the Cubna, also noted again 5/9 0030. (WF-IN)
- 680 WCTT KY CORBIN - 4/13 2110 good w/CW music, ID, weather. (SB-KY)
- 790 KSPD ID BOISE - 4/6 2127 atop into full data s/off, o/KABC/KGHL and others, no SSB noted. (DKK-CA)
- WPIC PA SHARON - 4/22 1852 noted w/s/off w/no SSB at this odd time, fair in WTAR null. But knowing this area, it's not all that unusual! (DS-DE)
- WNWS FL MIAMI - 4/6 2204 fair/good w/weather, ID, talk program.(EB-OH)
- 830 UNID 4/1 1938 good w/Mozart sym. #33 looping east/west, faded to WCCO before ID, WNYC? (JM-PA) No, they went urban contemporary last week. (DS)
- 900 WWJD GA SAVANNAH - 4/26 1856-1900 s/off o/all w/weather, closing anc'ts, instr. music, and partial data s/off (no address).(KG)
- WFLN PA PHILADELPHIA - 4/27 1850-1950 strong w/classical music, ads, weather, AP news, running full power, evidently forgot to shut down AM at 1845 s/off time. (KG-PA)
- 910 WEPG TN S PITTSBURG - 4/1 1912-1915 fair w/"Valley's Best Choice" slogan, CW music, s/off w/SSB, mentioned 5000 watts. (BH-NJ)
- WKCN SC N CHARLESTON - 4/2 1848-1850 weak w/"Thought for the Day" ad for area funeral chapel, s/off barely audible. (BH-NJ)
- 920 WGST GA ATLANTA - 4/1 1911 very good w/weather, PSA, ads, and ID as News-Talk 92. (JM-PA)
- 930 KAGI OR GRANTS PASS - 4/10 2120-2130 w/Trailblazers pre game show, mixing w/KEWQ in KHJ/KSEI null, noted again 4/11 2124 atop w/rock music, was looking for KYSS. (DKK-CA)
- 950 WXGI VA RICHMOND - 4/10 1812 CW music, ID, time check w/some splash from WKGM-940. (EB-VA)
- 970 WTKN PA PITTSBURGH - 4/10 2101 PA Primary coverage o/WAMD. (EB-VA)
- 990 KWAM TN MEMPHIS - 4/10 1900-1930 weak u/WNOX w/gospel music. (TC-TN)
- 1040 WIRS VA MARTINSVILLE - 4/16 2359 very strong w/PSA reminding you to file your income tax on time, "Big Brotheradio" ID. (TC-TN) Right in WPT's backyard and he missed it! (DS)
- 1060 WHPB MI BENTON HARBOR - 4/1 1930 in KYW fades w/partial full data s/off, mention to tune to 24 hour FM. (JM-PA)
- UNID 4/1 1930 right after WHPB, noted SSB looping west, u/KYW.(JM)
- 1100 KDRY TX ALAMO HEIGHTS - 4/10 2052 fair w/CW music, atop at times, ID, faded to WWWE w/some WBT splash. (EB-VA)
- 1110 WKRA MS HOLLY SPRINGS - 5/8 2059 noted w/s/off w/no sign of WMBI.(WF)
- CKJD ON SARNIA - 5/9 2037 good w/ID into Top 40 music. (JM-PA)
- 1150 KKEY OR PORTLAND - 4/10 2145 atop w/nice ID during tele-talk program, again 4/11 2135 w/similar programming. (DKK-CA) Never heard of that, similar to CW music? (DS)
- KBOX AR LITTLE ROCK - 4/1 1942 good w/ID, Sinatra music. (JM-PA)
- 1240 WYGL PA SELINGSGROVE - 5/14 2011-2033 occasionally o/WGBB in WHUM's null w/CW music w/female anc'r, ID's as "Wiggle" and "Wiggle Country". (KG-PA)
- 1250 WLSM PA EMPORIUM - 4/4 1848-1858 good w/Top 40 music, PSA on wild animal bites, s/oif w/mention of NBC and SSB. (BH-NJ)
- 1260 WWDC DC WASHINGTON - 4/11 2115 alone for 30 minutes w/big band music, ID's. (TP-CT)
- WBBG OH CLEVELAND - 4/22 1900 w/ID for news, then gone quickly to WEZE/WNDR/others. (TF-CT)
- 1290 WRCP RI PROVIDENCE - 4/12 1909-2012 o/u WFBG/WNEB/WKNE w/news and weather in Portuguese, ID in English, then into a Port. talk show w/occasional ads and music. (KG-PA)
- KRGV TX WESLACO - 4/12 2100 rock music, fair taking out WHIO, some WTKC-1300 splash. (EB-KY)
- 1300 KHUG OR MEDFORD - 5/2 2355 weak w/ID, local weather, ABC news, ID as "K-HUG". (JW-OR)
- 1310 WMLF IN INDIANAPOLIS - 4/15 2320 briefly atop w/MYL promo, ID. (DS-NC)
- 1340 KATY CA SAN LUIS OBISPO - 5/1 2244 way atop KMAK w/promo for "stay tuned for all your favorites" promo then Big Band song, this guy has been off for close to a year. (DKK-CA)
- 1370 WKIK MD LEONARDTOWN - 4/14 1925-1940 good w/ads, promo for Newaday, Washin_gton Bullets game, ID as "Sports voice for southern MD" then gone to WSPD. (JM-PA)

WAKE RADIO 1500

1380 WTOB NC WINSTON-SALEM - 4/7 2006 fair/poor o/u WBNX w/CBS news, MoR music. (EB-MD)

KWK MO ST LOUIS - 4/13 2102 fair w/rock music mixing w/Cuban. (EB-KY)

WLRO OH LORAIN - 4/14 1912-1915 good w/religious program, full data s/off mentioning Adult Easy Listening music, SSB. (JM-PA)

KGMS CA SACRAMENTO - 4/4 1935-1945 w/EZL type music atop KTOM, rare here due to KEEN-1370 super splash. (DKK-CA) Any relation to Superfly? (DS)

1400 WSGA GA SAVANNAH - 4/9 1900 w/MYL, ID, very listenable signal! (BS-NJ)

1410 KCONR OR PORTLAND - 5/13 2330 w/ID then short s/off atop massive splash from KRE-1400, rock music prior to s/off may have been them. (DKK-CA) Tried for it here but missed it. (DS)

WMML AL MOBILE - 4/10 1920 Mobile Country Music ID, o/WPOP. (BS-NJ)

WHYG NJ EATONTOWN - 4/7 1828-1830 EZL stuff, vocal Lords Prayer sung at s/off, u/WPOP. (TP-CT)

1420 WCOJ PA COATESVILLE - 5/9 2044 good w/promo, ID and Phillies baseball, o/u WHK, noted again 5/22. (JM-PA)

1430 WDIC VA CLINCHOC - 4/25 1900 noted s/off way o/WNJR. (BS-NJ)

WNAV MD ANNAPOLIS - 4/20 2315 good but fading w/Orioles baseball, promo/ID. (JM-PA)

1440 WBGGA GA BRUNSWICK - 4/10 1919 noted w/ID in mess. (BS-NJ)

1460 WBET MA BROCKTON - 4/15 1907-2000 very good at times w/weather, the Emerald Hour (Irish music), jingle, ABC news, ID, trivia question w/phone # given, called and anc'r was amazed that I heard him, faded soon after. (JM-PA) Who cares about that stuff, did you win the trivia question? (DS)

WBRN MI BIG RAPIDS - 4/15 2100+ very strong way o/WCMB w/Radio One ID's, rock music, weather, news, sports, s/off w/full data, ID's for FM, nightly regular now. (JM-PA)

WWCN NY ALBANY - 5/21 1952 ID and baseball game promo, w/WPRW. (BS-NJ)

1470 KELA WA CENTRALIA - 4/24 2142 w/blip ID thru others. (DKK-CA)

1480 WCIN OH CINCINNATI - 4/12 2052 fair w/B/Sol music o/KLVL. (EB-KY)

1520 WKZQ SC MYRTLE BEACH - 4/27 1920-1935+ strong in WKBW's null w/rock music and clustered ads, forgot to shut down AM side at 1845 sunset s/off time. (KG-PA)

WRID PA HOMER CITY - 4/1 1850-1900 good w/ads, local news wrap up, oldies, s/off w/mention of "Outstanding personalities and limited commercials" what do you think of that? (JM-PA) Won't be in business long! (DS) 4/12 1850-1900 s/off fair thru WKBW w/pop music, clustered ads, no data s/off giving April hours as 0600-1900, ID's as AM 1520. (KG-PA) 5/14 2030 s/off w/many AM 1520 mentions. (BS-NJ) *2:25pm 4/24/06*

WINW OH CANTON - 4/1 1858 fair w/simple data s/off w/mention of "Good Gospel". (JM-PA)

1550 KXEX CA FRESNO - 5/4 2233 w/Spanish program in KKHI/KRGO pause. (DKK)

1580 WPGO MD MORNINGSIDE - 4/10 1822 fair w/"95 PGC" ID's, local ads, rock oldies. (EB-VA)

WEYI AL TALLADEGA - 4/9 1915 noted w/s/off. (BS-NJ)

WANB PA WAYNESBURG - 5/14 2015 ID and Pirates baseball. (BS-NJ)

UNID 4/10 1850-1855 TT w/various tones, o/all, possibly WAJE on another ET again? (KG-PA)

1590 WLPA GA LA PAYETTE - 4/9 1915 s/off w/slogan "Serving you is what we do best". (BS-NJ) Questionable....(DS)

WGGG NY SALAMANCA - 5/14 2030 s/off noted u/WQQW. (BS-NJ)

KTIL OR TILLAMOOK - 5/15 1754 fair w/pop music, PSA on voting, ID then local weather. (JW-OR)

1600 KBBX UT CENTERVILLE - 5/2 2230 noted w/s/off, strong and atop, hours given as 0600 til sunset. (DKK-CA)

MIDNITE - MIDDAY:

540 CBEP ON WINDSER - 4/18 fair and fading relaying classical jazz music al la CJBC, if you say so, Dave! (JM-PA) Say what? (DS)VA)

WDMV MD POCOMOKE CITY - 4/10 0844 good w/local ads, ID, CW music. (EB-VA)

560 KPQ WA WENATCHEE - 4/16 0341 w/ID, lite rock music o/KMON. (DKK-CA)

WIS SC COLUMBIA - 4/16 0100 w/ID, rock oldies program, CBS news, weak w/WHBQ. (DS-NC)

610 WSGN AL BIRMINGHAM - 5/9 0130 good u/WDAF/WIP w/Big Band music. (WF-IN)

630 *WMAL DC WASHINGTON - 4/9 0046 noted w/PoP w/TT this AM. (WPT-DC)

680 WINR NY BINGHAMTON - 5/17 0200 good/fair o/WPTF w/MYL, AM 680 ID, RKO news, local weather and PSA. (JM-PA)

WKDJ TN MEMPHIS - 5/16 0237 probably on day pattern w/urban contemp. music, "Powerline 680" ID's, AM Stereo mention. (JM-PA)

700 KGRV OR WINSTON - 4/28 0252-0303 w/Heaven and Home Hour program, ID, s/off noted 0301 1/2 w/hyan, 1st time noted atop KFAM on nite power. (DKK-CA) Hasn't cut it thru the new station from Wayne's Snake Farm, CO yet. (DS)

63KBX

710 KNUS CO DENVER - 4/9 0330-0405+ w/ABC talk show, ID, ABC news then back to talk, signal weak/fadey but finally ID'ed. (DKK-CA)

*WOR NY NEW YORK - 4/2 0130 noted off this AM, OC on/off at various times, MoR music under. (JM-PA)

800 CKOK BC PENTICTON - 4/23 0300-0415+ w/rock oldies, female gave OK net ID, KGO-810 seldom allows 800 signals here. (DKK-CA)

850 *WJW OH CLEVELAND - 5/21 0100 noted w/TT this AM. (JM-PA) Figures that CBJ's AM show would be something good to copy! (DS)

WEEU PA READING - 5/5 0628 news, many ads, good o/u WHDH. (TF-CT)

860 WDMG GA DOUGLAS - 4/3 0521-0528 CW music, program promos, Univ. of GA program, lost to WTEL s/on. (TP-CT)

880 KWIP OR DALLAS - 5/16 0434 noted u/KRVN w/ID, new AN'er? (DKK-CA) He'll answer his own question in 4 weeks! (DS)

930 WSOC NC CHARLOTTE - 4/2 0600-0655 xint w/Mutual news, Accu-weather, local news, ads, promo for AM stereo, MoR music. (JM-PA)

WGNT WV HUNTINGTON - 4/2 0600-0627 very good w/WSOC w/CBS news, ads, sports, PSA, item on ladies fashion show. (JM-PA)

940 WECO TN WARTBURG - 4/2 0600 good w/s/on w/SSB. (JM-PA)

WKGM VA SMITHFIELD - 3/29 0624-0643, 4/2 0530-0544 very good w/WFNC w/contemp. religious music, ads, promos, ID, Community notes. (JM-PA)

950 WPEN PA PHILADELPHIA - 3/28 0617-0628 good w/station of the stars music, ads, PSA, weather. (JM-PA)

WQBE WV CHARLESTON - 4/17 0600-0631 very good w/ABC news, CW music, ads, promo, ID as "Certified 24 karat country". (JM-PA)

960 WHYI PA CARLISLE - 4/4 0535-0541 xint w/ads, Easter Seals promo, CW music, ID's for 96 AM-102 PM. (JM-PA)

UNID 4/29 0210 someone u/WFIR w/CNN news, looping E/W. (JM-PA)

1000 WKYB SC HEMINGWAY - 4/6 0615 noted w/full data s/on, no SSB. (TF-CT)

KRDE CO HAYDEN - 5/3 0825-0845 in well w/farm and cattle report, ID as "KZ-100". (DKK-CA)

KRHS AZ BULLHEAD CITY - 5/11 0830 w/full data s/on atop KOMO then into CW music. (DKK-CA) Rats, missed it again! (DS)

1010 KLRA AR LITTLE ROCK - 4/2 0600 ID w/"1st in stereo" mention. (JM-PA)

1020 KBCQ NM ROSWELL - 5/5 0442 strong w/CW music w/KYXE under, KTNQ was off, KBCQ noted AN6 since. Wertz. (DKK-CA) Hey, you, better stik with the code, buddy....821! (DS)

KYXE WA SELAH - 5/11 0932-1000 fair w/ads, Super Country ID, local weather, ID, ABC news on hour. (JW-OR)

1050 WJXY SC CONWAY - 4/10 0610-0620 alone in WHN's null w/CW music, ads, weather and promo, singing ID's. (KG-PA)

1060 KBGN ID CALDWELL - 4/7 0850-0830 w/religious music u/KPAY and KABL image, faded up for 2 ID's prior to KIJI s/on and put their image atop all! (DKK-CA) Well, image that! (DS)

KYW PA PHILADELPHIA - 4/1 0800 could have been, maybe, don't know, tentative, might've been, ??????. (Contributors name lost!)

1070 CKST AB ST ALBERTS - 4/23 0120-0300+ w/mixed bag of CW and pop music, u/KNX, noted w/BN news, jingle/ID's, MST time checks, atop at times, new here. (DKK-CA)

1100 *WWWE OH CLEVELAND - 5/21 0100 took a cue from WJW, noted off this AM w/TT. (JM-PA) Must be a real ratings race! (DS)

1150 WNDB FL N DAYTONA BEACH - 4/2 0532-0545 rock music, ads, CBS program promos, no verie. (TP-CT) But did you send the report? (DS)

WGBR NC GOLDSBORO - 4/2 0545 tobacco notes, ads for fertilizers, in like a local. (TP-CT) *Sounds like a Shanty catch to me!* -MK

1230 WBZA NY GLEN FALLS - 5/11 0609-0616 o/WITH in WEEK's null w/news, Tri County area weather, ads, plug for "25 years of service to the North Country". (KG-PA)

UNID 5/11 0556-0611 fade-out, TT o/all in WEEK's null w/1000 and 5000 hertz tone, looped west, presumably a CDT station. (KG-PA)

1240 WSSV VA PETERSBURG - 4/9 0223 good w/promo, metro weather, MoR music, ABC news then faded. (JM-PA)

1250 WTAE PA PITTSBURGH - 4/16 0200 still noted on at this time, NSP? Better not stay this way! (JM-PA) Yeah, that's a BIG 10-4!

1270 CFGT PQ ALMA - 4/16 0225 very good thru WXYZ w/MoR/rock music then French anc'r. (JM-PA) Still equal w/CJMS-1280 AN. (DS)

WTSN NH DOVER - 4/30 0608-0618 o/all w/pop music, sports results, ads, and weather, anc'd as "Morning Info. Center". (KG-PA)

1290 CJBK ON LONDON - 4/17 0331 good in WWSA null w/rock music. (DS-NC)

1300 WTKC KY LEXINGTON - 4/16 0011 good w/CW music, promo, ID. (DS-NC)

1310 KARY WA PROSSER - 5/12 0911 fair w/ID, Community notes, weather for Yakima Valley. (JW-OR)

WNSY VA NEWPORT NEWS - 4/6 0539-0552 oldies plus repeated temp. for Patrick Henry, lost to WTLB. (TF-CT) Was Patrick sick? (DS)

1320 WRJY VA RICHMOND - 4/6 0600-0630 strong in WKAP's null w/no data s/on, into news, weather, and MYL style beautiful style music (mostly instr.), clustered ads, Richmonds Joy ID, Mutual news. (KG-PA)

3 1320 WCOG NC GREENSBORO - 4/6 0545-0555 good in WKAP's null w/pop music, sports news, and "13 WCOG" ID's. (KG-PA)
 WKIN TN KINGSPOINT - 4/6 0608-0611 good in WKAP's null during pause in WRJY w/weather, ID and CW music. (KG-PA)
 0961 WHAR WV CLARKSBURG - 5/13 0215 xint w/fading w/Top 40 music, ads, ID as "13 Rock". (JM-PA)
 WROD FL DAYTONA BEACH - 4/9 0300-0317 sneaking in w/ABC news, promo for MYL, weather. (JM-PA) 5/2 0530-0544 o/all w/RKO satellite news, ID into MYL. (KG-PA)
 CKDK ON WOODSTOCK - 4/16 0327 up thru mess w/ID and lite rock music, my 1st Canadian GY'er! (JM-PA) Well, GY to you, too! (DS)
 KBBR OR NORTH BEND - 5/15 0831 weather, ID, OR news, weak signal. (JM-PA)
 1350 KABQ NM ALBUQUERQUE - 5/7 0310-0320 fair w/Spanish program. (DKK-CA)
 WLOU KY LOUISVILLE - 4/16 0125 good w/B/Sol music, ID and mention of now being 24 hours. (DS-NC)
 1370 WPEA NH MANCHESTER - 4/20 0255 xint w/fades w/Top 40 music, promo, ABC news, Paul Harvey's The Rest Of The Story. (JM-PA)
 WTTS IN BLOOMINGTON - 4/18 0210 fair thru others w/Nighttime America and ID's. (JM-PA)
 1380 WAMS DE WILMINGTON - 4/12 0159 fair w/ID and Music Country Net. (JM)

 We pause for a moment to rest those weary eyes of your editor, who has used 3 bottles of Visine since starting this column this week due to the ultra small writing of John Malicky.....thank you, we continue....

1400 WLLH MA LOWELL - 4/29 0545 rock music, ID, thought I had much wanted WLNH until ad was heard for Merrimac Valley, oh well, next year! (TF-CT)
 WTSL NH LEBANON - 4/9 0538-0552 weather, \$1400 Shopping Spree contest, sports scores, good signal. (TF-CT)
 WABY NY ALBANY - 4/9 0520-0528 MYL and ID for WABY-1400. (TF-CT)
 WIDE ME BIDDLEFORD - 4/23 0540-0550 sports, rock music and ID. (TF-CT) 4/25 0536-0540 strong in WEST's null w/patriotic selection, "Good music" anc't, dual ID w/WBYC-FM, anc'r ID'ed himself and said Good Morning in French, followed by time and weather. (KG-PA)
 WRDO ME AUGUSTA - 4/23 0525 Phrase Tmt Pays contest, MoR music. (TF-CT)
 WKAV VA CHARLOTTESVILLE - 4/25 0545-0554 popped in w/strong signal in WEST's null at power increase, ID, time check, weather and CW music. A nearly straight line can be drawn between Charlottesville and Biddleford thru Walnutport, both this and WIDE noted in WEST's null for less than 10 minutes. (KG-PA)
 WQBH MI DETROIT - 5/20 0137 up well w/PSA and B/Sol music. (JM-PA)
 WHGB PA HARRISBURG - 5/20 0143 fading in w/MYL, ID & address. (JM-PA)
 WPCE VA PORTSMOUTH - 5/21 0149 very good w/ID during break in gospel music program. (JM-PA) TNVR! (DS)
 1410 KMYC CA MARYSVILLE - 4/2 0100 atop w/ID after MoR music then into news, this rare to KRZ-1400 splash. (DKK-CA) But even rarer in this area! (DS)
 CKSL ON LONDON - 5/3 0525-0540 o/all w/pop music, 5 minutes of news on 1/2 hour, sports, weather, ads, rare here. (KG-PA) 5/4 0035-0100 way atop WDOV/WPOP/KQV w/ID, promo, rock music and ads (including one for Delaware Speedway!), s/off 0100 and said would return "after technical adjustments". (DS-DE)
 1430 WNAV MD ANNAPOLIS - 4/12 0000 good but fading w/"full service radio" ID, weather, Larry King show, local news w/CJCL. (JM-PA)
 WVAM PA ALTOONA - 4/25 0533-0547 CW music, ads, weather, 1st time noted here but they still do not verie! (TF-CT) Wrong! My verie is from the 70's, they do verie-hi! (DS)
 1440 *WRRO OH WARREN - 5/21 0250 noted off this AM, strong OC noted 0305 o/jumble. Usually local like here AM's. (DS-DE)
 WHIS WV BLUEFIELD - 4/11 0159 popped up w/full ID then faded. (JM-PA)
 WAJR WV MORGANTOWN - 4/3 0559 good w/Music Country Network, news promo, ID, "the news when you need to know". (JM-PA)
 WBUY NC LEXINGTON - 4/5 0555-0600 o/all w/MoR music, ads, "Thought for the Day", dual ID for AM and WLXN-FM, NC Net. news. (KG-PA)
 WMER ME WESTBROOK - 4/16 0530-0006 o/all w/non stop CNN news, ID on hour, ABC news, ad and promo, ID's as Talk Radio and Portland News Radio. (KG-PA)
 WBIS CT BRISTOL - 4/17 0528-0545 strong in WRRO's null w/full data s/on and SSB, jingle/ID, into MoR music, weather. (KG-PA)
 WSSC SC GREENVILLE - 4/16 0110 w/CW music "Whistle Country, AM & FM" ID's, day in history items, fair signal. (DS-NC)
 WHHY AL MONTGOMERY - 4/17 0340 atop w/rock music, ID, sports. (DS-NC)

9 1450 WJER OH DOVER-NEW PHILADELPHIA - 5/22 0006 fair w/sermon, fading w/s/off w/SSB. (JM-PA)
 WDAD PA INDIANA - 5/16 1700 semi local u/WJPA w/rock music and CBS news. (JM-PA) How cum you put this in with the early stuff? Only I am permitted to make mistakes like that-hi! (DS)
 WMAJ PA STATE COLLEGE - 5/9 0050 good w/MoR music, Magic 14 IDs and weather. (JM-PA)
 WFTR VA FRONT ROYAL - 5/22 0059 good w/Talknet and ID for AM-FM as Front Royal/Winchester. (JM-PA)
 CHUC ON PORT HOPE - 5/20 & 5/22, s/off 5/20 0159 w/NA, 5/22 2309 fair w/weather, sports, rock music, ID as "CH Coburg" (JM-PA)
 WMYB SC MYRTLE BEACH - 4/26 0601-0605 o/all w/SSB and full data s/on into MoR music. (KG-PA) 4/2 0002 good w/s/off w/full ID and SSB, atop pile. (WPT-DC)
 *WOL DC WASHINGTON - 4/9 0058 noted on ET w/TT. (WPT-DC)
 1460 WBNS OH COLUMBUS - 4/16 0230 noted w/s/off to return "in one hour". Still off MM's but at different time. (DS-NC)
 KTYM CA INGLEWOOD - 5/1 0930-1000 w/KDON off, noted w/religion, no KQTE, only another KIPI-1010 image. (DKK-CA)
 1470 WRGA GA ROME - 4/16 0113 good w/CW music u/UNID. (DS-NC)
 1480 KWIZ CA SANTA ANA - 4/28 0222-0225 atop KWUN/KYOS/KRED w/local ads, must be back on full 5kw. (DKK-CA)
 WCIN OH CINCINNATI - 4/16 0257 very strong w/jazz music and ID as "The dominant one, the new sound of WCIN". (JM-PA)
 1490 WUSS NJ ATLANTIC CITY - 5/14 0000 noted w/full data s/off, so no longer NSP. (KG-PA)
 WAYB VA WAYNESBORO - 5/14 0008-0010 on top w/closing spiritual message and full data s/off w/SSB. (KG-PA)
 WPOR ME PORTLAND - 4/21 0515-0528 good w/CW music, ID. (TF-CT)
 WJNL PA JOHNSTOWN - 4/14 0430 atop w/ID during break in Larry King. (BH)
 1520 WKNT OH KENT - 4/13 0546 good w/s/on w/owners name and "the country connection" slogan. (JM-PA)
 WDSL NC MOCKSVILLE - 3/30 0647-0648 good fading up w/local ads, ID then faded. (JM-PA)
 WGMA NC SPINDALE - 3/30 0654-0657 fading in after WDSL w/local ads, and NC Net news before fading down. (JM-PA)
 1530 WBCW PA JEANETTE - 4/7 0600 briefly atop freq. w/ID. (TF-CT)
 1540 WYNC NC YANCEYVILLE - 4/10 0548 o/WARD w/full data s/on, anc'd power as 2500 watts w/1000 watts during critical hours. (KG-PA)
 1550 WCVL IN CRAWFORDSVILLE - 4/17 0325 noted w/"News Talk" promo in ID, day in history items. (DS-NC) 4/21 0323 fair/good w/end of Reds baseball into Talkradio, ABC news. (JM-PA)
 WVAB VA VIRGINIA BEACH - 4/1 0530 very good prior to WJLY s/on w/ Superhits and All Request Weekend ID's. (JM-PA)
 1560 *UNID 4/13 0130 someone w/brief tone and short burst static looping E-W during WQXR classical music. (JM-PA) You were listening to a thunderstorm. (DS)
 1570 *WTLK NC TAYLORSVILLE - 4/12 0139 just caught ID for ET then TT noted u/CHLO. (JM-PA)
 1580 *WPGC MD MORNINGSIDE - 4/5 0047 strong w/60's oldies and ID. (JM-PA)
 KLOU LA LAKE CHARLES - 5/10 0300 fair w/"LA's AM Stereo Leader", MoR music. (JM-PA)
 *WLIM NY PATCHOGUE - 5/6 0250 strong w/March music. (JM-PA) 4/23 0038 noted on ET w/various TT, sounded like a PoP, guess they lost the records this AM. (DS-DE)
 WIZY GA COLUMBUS - 4/6 0505-0530 in clear w/modern gospel songs, program promo's, weather, ID as "Your Christian Station" and "Your Christian Connection in Columbus". (KG-PA)
 WAJE PA EBENSBURG - 4/29 0607 very strong on full power, ignoring later 0630 s/on w/DST, message from GM saying new owners would be taking over later in month, asking for comments on programming and station operation. (KG-PA)
 UNID 4/17 0342 someone here hooked in w/Satellite Music Network, same music as WJ30/WCSC, KLOU? Fair in WIZY null. (DS-NC)
 1590 *WXRS GA SWAINSBORO - 4/23 0002 tuned into long ID w/studio and xmtr location given for ET then OC, o/u WJ30/WAKR. (DS-DE)(DS-DE)
 WJRO MD GLEN BURNIE - 4/23 0003 popped up w/s/off, no SSB, o/WJ30/WAKR
 WCBG PA CHAMBERSBURG - 4/10 0531-0559 very good o/WPTH w/weather, Agri net, PSA, anc't for Community notes, promo for NBC net., religious program, ID, report sent. (JM-PA) Don't hold your breath on this guy! (DS)
 WPTH VA RICHMOND - 4/5 0537 very strong w/religious music, s/on w/full data, regular in AM here. (JM-PA)
 KMTI UT MANTI - 4/18 0755 w/full data s/on u/KLIV into news w/many local ads.

WJSO
 Tri Cities No. ONE Station

WBTX



1600 KLAKE CO LAKEWOOD - 4/28 0325 female anc'r w/ID after local ads.(DKK)
UNID 4/1 0415 someone here w/strange rock music, time check
matched w/Hawaii time zone, call sounded like KZTA, could
this be KJTA-Pahoa now on? (DKK-CA)

PIRATES:

1620 NY NEW YORK - 4/22 0108-0126 strong w/ID as WWCC-Danbury, CT,
rock music and anc'r "Leopold" w/fake British accent, phone
#given as 202 938 9948, freq. anc'd as 1616. Again 4/30
0020-0104 ID'ing as WWCC New York, phone # given as 212-
989 9977, freq. anc'd as 1620 w/100 watts. ID at 0104 as
"KW", anc'r Johnny Joe w/various impersonations. Address
given as PO Box 982, Battle Creek, MI (KG-PA)

ADDRESS'S:

980 WWRG DC WASHINGTON - 4001 Nebraska Ave NW. (HH-MD)
990 KWAM TN - MEMPHIS - 64 Flicker St, Box 12107, 38112. (HH-MD)
1040 WSKE PA EVERETT - PO Box 187, 15537. (HH-MD)
1130 WWBF FL BARTOW - PO Box 50, 33830. (HH-MD)
WGGA GA MOULTRIE - Box 1380, 31768. (HH-MD)
1320 WAGY NC FORREST CITY - Box 280, 28043. (HH-MD) HH-MD)
WRJY VA RICHMOND - PO Box 11528 or 2317 Westwood Ave., 23230. (KG-PA,
1380 WNRV CT NAUGATUCK - Box 143, Waterbury, CT 06721. (JM-PA)
1420 WCED PA DUBOIS - 80 N Park Place, 15801. (HH-MD)
1430 WDEX NC MONROE - 308 N Main St., (JM-PA)
1520 WKRE VA EXMORE - PO Box 220, 23350. (HH-MD)
1550 WBFJ NC WINSTON SALEM - Trenwest Drive, 27103. (JM-PA)
1560 WKIQ FL INVERNESS - Box 2229, 32651-2229. (JM-PA)
1580 WAJE PA EBENSBURG - Cambria Savings Bldg., 15931. (HH-MD)

VARIOUS:

Past errors noted by KG, May 7th DDYD on Page 7, 1570 0517 4/4 logging was
for CPOR, Orillia, not CHLO. WUHN-1110 pattern should be "Northwest" toward
Albany, it would be a little tough if the pattern was "Northeast" toward
Albany-hi! Thanks, Kermit.

KASKEY notes that KLIM-1120 Limon, CO 1st day on air was 5/14 and noted
by local DX'er. KWIQ-1020 noted on ET a few weeks back, likely on reg. sked
by this time, their in Moses Lake, WA.

Seriously, for a moment, BEST WISHES and GOOD LUCK to NRC'er JOE JONES who
retired from an engineering position at WDEL-1150 a few months back. Joe
was the person who signed many veries for reception reports sent to the
station and is responsible for getting many to join the NRC (including me,
no regrets either-hi!). Keep in touch, Joe!

And WDEL-1150 has just installed a new transmitter and they're interested
in reports on how their signal may be doing in your area in regards to
overall strength and loudness. Reports should be addressed to CHARLES SLEZAK
c/o WDEL, all reports will be answered.

Somehow, I couldn't find the phone number for Ripley's BELIEVE IT OR NOT,
I was going to enter JOHN MALICKY as the only person on earth who can write
small enough as to fit over 50 contributions on one side of the paper with
space between to cut them into strips! Visine stock will do well!

Our next deadline will be in 4 weeks from the time this gets printed so
jot down a few items and ship them along.

CONTRIBUTING TYPES:

JM-PA John Malicky, Pittsburgh, PA Aiwa AR158
DKK-CA Don Kaskey, San Francisco, CA HQ140X, SM2
KG-PA Kermit Geary, Walnport, PA HQ180, R389, LW, SM2
TC-TN Tom Connatser, Sevierville, TN Superadio
WPT-DC Bill Townshend, Washington, DC Realistic Portavision (w/TVI!)
BS-NJ Bob Smolarek, Whitehouse Station, NJ Superadio
JM-OR Jack Woods, Corvallis, OR XCR30, Hot Rod
TF-CT Tony Fitzherbert, Fairfield, CT ICFS5W
WF-IL Wendell Ford, Westville, IN
EB-OH Eric Bueneman, Springfield, OH Superadio II
EB-MD Eric Bueneman, Silver Spring, MD Superadio II
EB-VA Eric Bueneman, Williamsburg, VA Superadio II
EB-NC Eric Bueneman, Raleigh, NC Superadio II
EB-KY Eric Bueneman, Richmond, KY Superadio II



THE ROMAN LION
WIYN RADIO

BH-NJ Bob Harrison, Union, NJ Superadio, WSKQ's towers!
HH-MD Hank Holbrook, Chevy Chase, MD SP600, HQ129X, Colegrove Loop
DS-NC Dave Schmidt, Lansing, NC HQ180A, 3000'+ LW
DS-DE You expected ELK? HQ180A, Superadio, SM2, Short LW

And that, friends, is all for another exciting weeks!

73's - Good DX!



NEWS RELEASE

GILFER ASSOCIATES, INC.

52 Park Avenue, P.O. Box 239, Park Ridge, N.J. 07656 (Area Code 201 391-7887)

FOR IMMEDIATE RELEASE

OLIVER PERRY FERRELL

It is with great sadness that we report the death of Oliver Perry
Ferrell, President of GILFER Associates, Inc. as a result of a car ac-
cident on April 22, 1984. Perry founded GILFER in 1953. Since that
date he has authored two editions of the "Confidential Frequency List"
and two editions of the "Guide to RTTY Frequencies." He also pub-
lished six shortwave books by other authors. But what he enjoyed the
most was contacting thousands of DX'ers who shared his fascination
with radio and helping to introduce new SWL's to the hobby he loved.
Perry's family and the staff at GILFER would like to thank the many
people who have sent sympathy cards and letters. One of these letters
kindly expressed the opinion that Perry exemplified the motto on the
World Radio TV Handbook -- "For the promotion of a better understanding
among the peoples of the world." We know that he would be very proud
of that epitaph -- as he was truly a world citizen.

It is our hope at GILFER that we can continue the business that Perry
started in a manner consistent with his style and aims.

National Radio Club

May 3, 1984

Since there has been considerable confusion and concern about the recent
situation between GILFER Associates and International Broadcasting Services,
we are sending the following statement which we have been advised by the
Court is acceptable for distribution or publication as you may or may not
find fitting at this time.

"It had been contemplated that IBS would publish a new-style frequency
guide for the shortwave listener, later termed RDI, and that GILFER
would be the exclusive distributor of the publication. IBS and GILFER
proceeded in good faith to perform their roles in this arrangement.
Difficulties arose which made it impossible to meet the expected dis-
tribution date for the complete 1984 winter/spring edition. At that
time the arrangements between IBS and GILFER were terminated".

We wish to take this opportunity to thank all of the many friends of GILFER
Associates for their support and help during the very trying year of 1984.
The many kindnesses we have been shown will not be forgotten.

Staff of GILFER Associates

INTERNATIONAL
DX DIGEST

Times are GMT. For ELT subtract 4 hours. Deadlines are usually Monday.

CHUCK HUTTON
1035 LATHAM ROAD
DECATUR, GA 30033
(404) 633-1198
BEFORE 2300 ELT

- 570 CUBA R. Rebel news and time noted here per Hakiel tip 0517 4/28; good and slightly atop domestic QRM. Strength seemed similar to the R. Rebelde xmt that previously was on the channel, so probably just a program switch. (Kaz)
- 590 VENEZUELA Caracas YVKL finally logged w/WEEI phased in some Cuban QRM w/LA ballad // 5030 0115-0118 4/28. (Kaz)
- 600 CUBA R. Rebelde 0700 4/7, also on 640, 650, 670, 690, 720. (Renfrew)
- 600 VENEZUELA Cumana YV08 in mass w/several other LA's w/Rumbos doorbells 0354 and Venezuelan NA at 0357 5/01 4/28. (Kaz)
- 610 TRINIDAD Port-of-Spain very good-xint w/beautiful reception of s/off w/National Broadcasting Service and Radio 610 ID's, NA, prayer, etc. with little trace of semi-local WDIR on Beverages 0404 4/28. (Kaz)
- 620 ANTIGUA St. John's local-like!! w/calypto mx 0125 and still just as strong 0400 w/BBC pips then BBC news 4/28; 0400 4/29 xint with "music continuing until one on ABS Radio", into reggae mx (no BBC news as was heard the previous day at this time). (Kaz)
- 640 COLOMBIA R. Cadena Nacional de Colombia w/one ID under Cuba 0520 4/7. (Renfrew) HJBJ in 0/639 TA het w/R. Suceso mention (slogan used by RCN net HJ's) 0406 4/28 after the YV00 and Guadalupe pests signed off. (Kaz)
- 640 CUBA R. Progreso 0755 4/7; first time I've been able to ID two Cuban stations operating on 640 at the same time. (Renfrew)
- 640 GUADELUPE probably this one with FF conversation 0130 4/7. (Renfrew)
- 655 EL SALVADOR R. Nacional w/fair signal u/WNBC. Frequent official time checks between tunes 0400-0550 4/7. Sign off w/NA at 0500. Brief news at 0430. (Renfrew)
- 670 VENEZUELA R. Rumbos w/national lottery numbers 0135 4/28. (Renfrew)
- 700 COLOMBIA R. Sutatenza w/Noticieros Sutatenza // 5095 0030 4/27. (Renfrew)
- 700 JAMAICA Montego Bay poor after calypso mx 0409 in MWU phase null 4/28 w/JBC Radio One ID just above QRM and lost to SS LA soon. This is easy from RI but much tougher here due to poor waterpath and greater distance. (Kaz)
- 710 VENEZUELA Caracas YVKY contrary to listed 0600 s/off--their NA then carrier cut at 0408 4/29. Equal strength to WOR. (Kaz)
- 720 VENEZUELA R. Vision Oriente de Porlamar w/frequent ID's and ads. New one here, blasting in, 0150 4/28. (Renfrew)
- 730 UNID BBC news w/CKAC 0205 4/28. Faded quickly. Same loop bearing as 720 item above which makes me suspect Trinidad. WRTH does not show BBC news from Trinidad however. Would have been a new country if I had gotten the ID. (Renfrew)
- 810 VENEZUELA Valencia YUSH noted w/WBY/HJCY/2NS3 QRM ending YU NA at 0258 s/off 4/30. Has previously been heard to s/off around 0357. (Kaz)
- 820 BRAZIL probably 2YJ738 as they are by far the most powerful noted poor but clearly // the network master w/soccer, u/domestic QRM w/819 het notched out 0030 4/19. (Kaz)
- 840 BRAZIL location unknown w/PP soccer coverage, score 0-0 // the network with fair signal o/St. Lucia's prolonged fade 0025 4/19 and fair-good later at 0113. (Kaz)
- 840 COLOMBIA Santa Marta HJBI very poor w/Ondas del Caribe ID w/powerful St. Lucia OC phased 0410 4/29. HJ's are considerably weaker here than in RI. (Kaz)
- 840 CUBA Dobleve u/WHAS 0900 4/7. (Renfrew)
- 840 UNID FF programming u/WHAS intermittently 0240-0400 4.28. No ID's heard but I need to review my tape to be sure. At first I thought St. Lucia but on later than indicated in WRTH. So, perhaps Haiti? Mostly a talk show. Did not hear s/off but gone after 0400 or so. (Renfrew) I wish I knew the current schedule for sure, but I believe St. Lucia is on until 0400-CH.
- 860 BRAZIL Rio de Janeiro 2YJ459 nicely o/HILR/CJBC w/PP anncr, PP pop mx 0050-0052 then mixing w/CJBC w/"Mundial" ID, good signal. (Kaz)
- 890 BRAZIL location unknown in weakly but surprisingly no real QRM, // 880 et al w/soccer poor-fair. Some 891 het noted 0027 4/19. (Kaz)
- 895 COLOMBIA Santa Marta HJPM fair-good w/R. Galeon ID then LA mx 0303 4/30. (Kaz)
- 900 BARBADOS Bridgetown xint and way atop w/AT40 pgm and "CBC, R. 900, the heart and soul of Barbados" 0145 4/29. (Kaz)
- 990 VENEZUELA Barquisimeto YVTA poor u/Grenada w/Mundial Tricolor ID 0040 4/28. (Kaz)
- 1000 BRAZIL Rio de Janeiro 1YK522 noted w/PP talk and songs, poor-fair atop

- channel 0011-0014 5/2 and 0158-0159 5/8 fair o/WCFL (which came atop at 0200) w/PP anncr into typical romantic PP song. Commonly noted. (Kaz)
- 1010 BRAZIL Fortaleza 2YH625 poor-fair rising up w/SS LA, u/WINS w/PP anncr then PP song. Usual "O Povo" ID 0154-0158 (very, very long ID there....CH) 4/29. Radio O Povo ID by PP man then O Povo SID by female then romantic PP song. Poor-fair but dominant 2334 4.29 in au cx 1/4 hour before LSS. No WINS or any northerly domestic skip noted at all before 0030 on 4/27, 28 or 29. (Kaz)
- 1010 DOMINICAN REPUBLIC Santo Domingo HJJP very good-xint and in clear w/QRM phased 0001 4/28 w/call and ID and Radio Comercial SID in SS. (Kaz)
- 1010 VENEZUELA Ciudad Bolivar YV0E another rare inland eastern YV here 0307-0312 4/30, poor and well u/CFRB and another SS LA occasionally QRM'ing too. Uptempo LA mx definitely // 4770 per 5 checks back and forth using the R70's single memory. (Kaz)
- 1020 VENEZUELA YURS R. Mundial Margarita 0444 4/26 briefly o/KDKA-man w/excited local ad and ID then vocal mx, fair. (Frodge)
- 1034t GUINEA-BISSAU carrier went off right at 0000 this time 4/28 in au cx w/WBZ phase null and no Portugal 1035 QRM. (Kaz)
- 1040 BRAZIL Sao Paulo 2YK537 becoming common around LSS; PP talk poor-fair in severe MBZ/WHN stop 0010 4/19-Radio Capital ID 0034, 0012 4/28 atop SS LA w/PP talk GMT-3 TC then nice folk dance PP mx, fair-good signal. 0012 4/30 fair w/WBZ stop phased. (Kaz)
- 1050 MEXICO XEG Monterrey 0436 4/26 very good with "La Numero Uno XEG" and "La Ranchera Monterrey", program continues past 0500 with QRM de WHN. (Frodge)
- 1050 VENEZUELA Puerto Ordaz YVNO ranging from inaudible to fair w/au weakened WHN phased. I heard several "Caroni" mentions and what sounded like a Radio Mundial ID, 2 SS GMT-4 TC's and LA and US mx format mixed 0123-0135 4/30 w/some QRM from XEG preacher and light mx from Radio Nacional de Venezuela. Eastern YV's in rather well tonight. (Kaz)
- 1060 UNID LA fair w/KYW phased 0131, played a romantic SS ballad but didn't stay audible long enough, 4/28 in good LA cx. (Kaz)
- 1070** FRENCH GUYANA Cayenne taped // super strong 3385 w/French anthem, then cute IS repeated 5 times 0106 4/30, then TT which faded into mud of other stns by 0108. What a nice surprise!!! (Kaz) What a great surprise!!! CH
- 1080 VENEZUELA Barcelona YV0J very good w/Rumbos news doorbells 2318 4/27 and bombing in and brutalizing WIC/LA's 2329 w/local ad. (Kaz)
- 1110 VENEZUELA Carupano YV0T local-like w/Rumbos doorbells 0028 then lively SS mx. (Kaz)
- 1130 BRAZIL/VENEZUELA 2YJ460 atop 2332 4/27 w/PP Radio Nacional ID o/YURL w/"Caracas" mention and Radio Ideal ID 2330 w/AU'ed WNEW in weakly. (Kaz)
- 1143 USSR Kaliningrad poor-fair with Radio Moscow World Service EE female anncr w/nx then typical ci mx, then R.M.U.S. ID 2332-2337 3/29. Also poor-fair w/EE mand and woman and two ID's 0031-0038 4/25 and poor 5/1 at 0003. (Kaz)
- 1152 UNID TA here was too weak for readable audio 2350-0005 5/1. Romania is listed off at that time and I'm thinking one of the British stns was trying to make it. (Kaz)
- 1160 DOMINICAN REPUBLIC Santiago HIGB fair w/"Esta es HIGB" ID 0428 4/29 then GMT-4 TC. (Kaz)
- 1160 VENEZUELA YV0K Merida occasionally topped the jumble of LA's on this channel w/pgming // to 3395 SW 0053-0101 4/30. LA talk and mx. SS talk, mx noted 0042 4/28, stn w/talk ID'ed as what sounded like "Radio Universidad" and GMT-4 TC 0044. Again noted w/QRM and same ID 0106. I must wait for clearer reception or check 3395 // to be sure. (Kaz)
- 1161 FRANCE Strasbourg poor-fair w/1160 het notched; w/FF man w/Radio France International ID 2359 4/30. (Kaz)
- 1161t GREAT BRITAIN at 0000 5/1 I had several pips with the last prolonged well u/France. The pips sounded definitely of the same pitch as BBC's. The only TA's (other than super-regulars) in tonight were north Europeans in the mid-1100's frequency range except 1503! (Kaz)
- 1163 HONDURAS HROF El Paraiso with baladas, man with ID, promo, weak het poor 0217 5/8. (Frodge)
- 1170 PUERTO RICO Ponce good-very good with two Radio Leo SID's, SS mx, US T40 mx with weak WVA phased 0150-0157 4/28, almost xint 0056 4/29 with "Leo" ID, 1170 mention at other times. I think I read that this was going 5 kw and it sounded like they must have. (Kaz)
- 1180 BRAZIL location unknown--fair w/soccer and Brazil mention, usual electronic sounds o/LA stn and thru WHAM phase null 0044 4/19. (Kaz)
- 1205 CAYMAN ISLANDS R. Cayman 0426 4.26 man with s/off anncr, sung hymn, God Save The Queen, off 0429, QRM de WCAU, fair. (Frodge)

- 120st SIERRA LEONE Freetown likely w/Afro or AA-type chanting poor and occasionally audible thru some WCAU stop 2350 3/29 and back again 2353 very poor, carrier off 0005. Couldn't get // 5980 to aid with ID. (Kaz)
- 1210 VENEZUELA Barcelona YU02 fair-good generally well o/WCAU and presumed R. Coro w/LA mx, Barcelona and Antzotequi mention, US T40 mx 0146 to 0159 4/30. (Kaz)
- 1220 BRAZIL Rio de Janeiro 2YJ458 very good w/"Futbol de Brazil" 0118. This was atop at every check between 2330 and 0120 4/28. Blasting in like it was in the next room (according to my wife who was with me) 0052-0055 w/"Globo" ID and PF anncr taking a phone call 4/29. (Kaz)
- 1220t COLOMBIA Barranquilla HJVF suspected poor w/2YJ459 phased w/lively HJ accordion mx 0142 4/28. (Kaz)
- 1250 VENEZUELA Puerto Ordaz YVP2 poor-fair w/semi-local WKBR phased to death 0042 4/29. TC and 2 Radio Puerto Ordaz ID's. Stns from inland, eastern Venezuela aren't common. (Kaz) Not many to start with...CH
- 1270 UNID poor w/LA mx w/local WTSN phased 0038-0039 4/29 when overtaken by a domestic. (Kaz)
- 1280 UNID LA noted w/SSer MADO phased; weak and lost 0048 4/28. (Kaz)
- 1300 VENEZUELA Maracaibo YUM5 fair in au cx w/TC, local mention, Radio Reloj ID, electric sounds o/another LA 0024-0025 4/29. (Kaz)
- 1310 CUBA a new and likely high powered outlet here w/MOR SS mx, then "Radio Internacional...Habana, Cuba" well o/WLOB/other LA's in severe AU cx 0032 4/29. (Kaz)
- 1420 VENEZUELA Maracaibo YV20 poor w/"Musica de Venezuela..Radio Vision Marabina" w/WBSM/others 0028 4/29. (Kaz)
- 1430 COLOMBIA Barranquilla HJFW poor-fair with "de Barranquilla" and Colombia mentions in between LA songs 0025 4/30 in au cx. (Kaz)
- 1500 VENEZUELA Cumana YV?? to xint peaks w/no WTOP in au cx w/"Uiva con Radio Dos Mil" 2354 4/28, also 2 Radio Mil ID's 0002 4.29 and "en Cumana" mention. This is my unid LA from earlier this season as the slogan I heard previously sounds like Radio Dos Mil. (Kaz)
- 1503 SENEGAL Tambacounda poor w/rhythmic Afro mx soBnded like slow playing steel band; atop WTOP slop 2339 4.30. (Kaz)
- 1505t ANGUILLA The Valley just strong enough to put some audio through bad WIRE-1510 slop 0145 5/1. (Kaz)
- 1540 BAHAMAS Nassau ZNS1 to xint peaks well atop WPTR w/wx, ad for Miss Bahamas Pageant then religious pgm "Insight" 0031-33 4/30. (Kaz)
- 1555 CAYMAN ISLANDS R. Cayman w/EE nx 0305 4/9. (Renfrew)
- 1560 VENEZUELA Puerto la Cruz YV?? 0006 4/29 after very lively LA song, good with TC and Radio Mar ID then Radio Mar ID with "r" rolled greatly 0007 mixing with another stn in au cx. (Kaz)
- 1570 MEXICO XERF Ciudad Acuna with religious pgm, anncr Paul Ellinger, EZL mx 0520 4.26 very good. (Frodge)
- 1580 ANTIGUA VOA with news 0125 4.28. (Renfrew)

Congratulations to Kaz on his 1070 thing which is really a big catch. I can't remember the last confirmed catch of that guy unless it was GPN about 20 years ago...Not much else happening so I'll just go back to the southern sunshine.

Harold Fordge-Midland, MI DX302, 185' inverted LW
Neil Kazaross-Daunquit, ME R70, phased 1350' Beverages at 150, loops, etc.
Jim Renfrew-Rochester, NY HQ150, SM

Dat's all.....

AM Power Limits

This proposal would allow certain applicants for new unlimited-time AM stations to obtain greater power during the day than they propose to use at night. Comment deadlines are past. No action is expected before late summer. The file number is MM 83-669. Call Jonathan David at 202-632-7792.

VIA
FILED VOBBE

Daytimers

In response to a petition from the Daytime Broadcasters Association, the FCC recently authorized an across-the-board PSS power increase of at least 100 W for Class III regional daytimers, and increased PSSAs for some Class IIs.

This decision came one week after Congress held hearings on S.580, a bill to give daytimers full operating power two hours pre-sunrise and two hours post-sunset.

File number is GEN 82-538. Contact Fred Schottland, 202-632-5414.

The Commission has proposed other ways to give daytimers a break, including exempting daytimers from certain requirements when applying for full-time stations, and giving daytimers preference for new full-time FMs created by Docket 80-90.

The FCC said it did not find persuasive reasons for issuing an NPRM proposing to allow daytimers to switch to local channels at night.

Fred Vobbe

1984 NRC CONVENTION
LABOR DAY WEEKEND
REGISTRATION DEADLINE AUG 15TH

FORMATS

OF THE MONTH CLUB

TONY FITZHERBERT
356 JACKMAN AVENUE
FAIRFIELD, CT 06430

Well, we do have a column! Two members have contributed....Dave Schweikart, a new member, from Fairfax, VA, updates us from his three former employers, prior to becoming a member of a management consultant firm....., and Bill Hale, a NRC'er from Converse, TX, gives us a tour of the AM dial in Metro San Antonio. We thank you, gentlemen...and here is today's show...

- | | | | | | |
|------|------|-------------|-------------------|---|--|
| 550 | KSTA | TX | San Antonio | - | CHR and oldies, 24 hours, NSP, stereo. |
| 630 | KSLR | TX | San Antonio | - | Contemporary Christian..24 hours, SS Rel from 2100 to 0100, call stands for <u>Son</u> ... Light Radio. |
| 690 | KKYX | TX | San Antonio | - | CWM, 24 hours, NSP, ABC Directions, some HS football in the fall, stereo. |
| 710 | WQEX | VA | Christiansburg | - | Rel, contemporary Christian, paid rel. |
| 850 | KONO | TX | San Antonio | - | CHR, and oldies..24 hours, ABC News feed for the news broadcasts. |
| 930 | KLLS | TX | Terrell Hills | - | CHR and oldies, 24 hours, ID's as "Class AM" and "Class FM", when simulcasting during AM and PM drive, carries Larry King, UPI, news at :20 and :40. |
| 1110 | KDRY | TX | Alamo Heights | - | Christian Radio...0600 - 2330. |
| 1150 | KFHM | TX | San Antonio | - | Bilingual....daytimer....T40Disco in EE, T40 in SS.....(Hmmm!!) |
| 1200 | WOAI | San Antonio | (and heard | - | all over the country!!) News, Talk, CBS Features, NBC, lots of professional sports NBC is a backup when no sports. |
| 1250 | KXET | TX | San Antonio | - | Traditional SS, with a flavoring of Tejano 24 hours, news on the hour. |
| 1260 | WMNM | CT | Westport | - | Now AM stereo, MOR, with news on the hour. |
| | WJJJ | VA | Christiansburg | - | CWM 0600-0700, otherwise is Ad. Com. and oldies, ID's as "1260-1", "Triple J Radio", and "Make your day radio", American Contemporary News. |
| 1310 | KBUC | TX | San Antonio | - | CAM... "The SuperKicker"...daytimer..ABC Nx. |
| | WEEL | VA | Fairfax | - | No longer all news....is "1310 NewsWeel" weekdays 0700-0900, 1200 - 1300, 1600-1800 only, otherwise simulcasts Ad. Com. WEZR, "EZ 106.7" SP nightly 0001-0600...and the AM and FM are separately owned!! |
| 1350 | KCOR | TX | San Antonio | - | SS music, stereo, news on the hour and at :30. |
| 1420 | KGNB | TX | New Braunfels | - | BBD, plus "every feature that ABC can throw at us", soon to be 2500 watts, daytime. |
| 1430 | WKEX | VA | Blackburg | - | CWM, live during drivetimes, otherwise from the Satellite Music Network.. "143 Country"...the 2 1/2 year fight with the local zoning commission is over, and construction on a four tower system should begin shortly with U-4 operation by the end of the summer. |
| 1480 | KAPE | TX | San Antonio | - | R and B, GOS, Jazz, news at :50. |
| 1500 | WKER | NJ | Pompton Lakes | - | Now EZL, used to be a real rock box! |
| 1540 | KEDA | TX | "Musica Regional" | - | from San Antonio...CWM in Spanish!! News on the hour and sports on the half hour. 24 hours, NSP. |
| 1580 | KWED | TX | Seguin | - | EZL during the day, Spanish from 1400 to s/off, Mutual News... |

Some most interesting formats this time...thanks, again, gentlemen...and, let over 720 interested members hear about the formats on your local stations.

73's for now!!

Archie



CRAIG HEALY
66 COVE STREET
PAWTUCKET, RI 02861

THIS WAS LAST MONTH'S COLUMN, WE WERE OUT OF ROOM LAST ISSUE, SO HERE IT IS NOW!

Where'd everybody go? Only my loggings this month:

- 1610 ANGUILLA 0445-0448 4/24 Caribbean Beacon assumed w/ relig. pgm. Fair.
1619 ??? 0450-0452 4/24 Cubic Argo, weak.
1628.5 ??? 0453-0454 4/24 Cubic Argo weak in static.
1635 ??? 0508,0512 4/25 V276 fair.
1646.8 ??? 0514-0516 4/24 Cubic Argo strong.
1685 COLOMBIA Mercaderes 0501-0502 4/25 MER unusually good.
1709.5 ??? 0524-0526 4/24 Decca (Raycal?) HiFix, strong.
1716.2 ??? 0527-0528 4/24 Cubic Argo, fair.
1746 ??? 0533-0535 4/24 Decca HiFix, fair.
1748 ??? 0535-0536 4/24 Decca HiFix, fair.
1762 ??? 0303,0307 4/2 FRB still here. Found a home? Fair. Also 0614 4/8.
1762.5 ??? 0537-0538 4/24 Cubic Argo, good.
1765 ??? 0538-0539 4/24 Cubic Argo, fair.
1785 ??? 0540-0543 4/24 Signal similar to Cubic Argo, but much faster rate.

Since there are no other loggings (ahem), I'll run down where we are on our great information search: I sent a letter to Raycal in Houston, but nothing yet. Nice letter from Jerry Starr on beacons and other things. He suggests that anyone bringing a radio on vacation may want to do a quick bandscan through the above-BCB area. This might be interesting in some remote areas, especially in the Caribbean Basin. I heard both a Cubic Argo and a "KA8..." station daytime. This was at the last NRC Convention beverage antenna site. Sam Neal and I have heard the same "KA8..." call on the same frequency at about the same time. Since he's in Texas and I'm in RI, it would appear that these can get out pretty well at times. This doesn't prove it was the same station we each heard, but it's at least certainly possible. David White up in Maine has heard identical stuff to me as well. Of course, some unidentified beacons like SDT-1620 and ZM-1700 are heard throughout North America. Still lots of puzzles and few answers. Do we have any readers in any government job with access to information that they can share?

Another letter received here complained: "I tune through your frequencies and only hear a few cordless phones. Why?" I don't know why you don't hear much, but offer a couple of suggestions. Patience is a must! Some of these beacon type stations only ID a few times every four minutes or so. Sometimes you just have to go fishing, and sit on a channel for a bit. Since the letter comes from the East Coast, he will probably have some luck listening on 1635 or 1637. Use the BFO in your receiver and the narrowest bandpass position. I use a longwire and a regenerative tuner similar to the ones described by Mark Connelly. This makes all the difference in the world. Signals up here are just not as strong as in the BCB. You have to dig for them. A loop can work well in a quiet area, but will be tough if line noise is high. Summer static doesn't help either.

Cordless phone info: Apparently they are showing up from 4.5-5.5 MHz now. A couple of articles received stated that law enforcement agencies can legally eavesdrop on cordless conversations. This is due to a recent court ruling. I'd credit the sender, but no hint of identity was in the letter. Thanks anyhow!

Last question: Anybody know the mailing address of Cubic Corp.? This is the old Swan company of ham equipment fame. Any contacts there??

***** AND HERE IS THIS MONTH'S COLUMN*****

NEXT PAGE

More AMs Stations May Come by 1990

Washington DC... The Commission plans to create new AM channel assignments for the first time in more than 40 years.

According to FCC communications specialist Larry Palmer, the Commission is preparing to issue a Notice of Inquiry to obtain comments on technical issues involved in creating additional AM assignments between 1605 and 1705 kHz. This 100 kHz of spectrum was added to

the AM band for use by broadcasters as a result of an international treaty signed in 1979.

Following the signing of the treaty, the Senate approved treaty protocol and the FCC adopted adding the 100 kHz.

The new channels, however, are not likely to be available until 1990, Palmer said. He explained that the creation of new assignments is contingent upon reaching agreements with approximately 40 other countries in the Western

Hemisphere at the next Regional Administrative Radio Conference. This conference begins with a technical session in 1986 and concludes with a procedural session in 1988.

Palmer did not know how many channels or assignments might become available to US broadcasters. The type and number of channels that will be available and the distribution of channel assignments among Western Hemisphere countries, will also be determined at the RARC, he said.

Currently, the 1605-1705 kHz frequencies are used primarily by private licensees for short-range position fixing. These licensees will become secondary users when broadcasters begin using the band.

June 1984... An interesting article was in "Radio World" recently. The FCC is preparing to issue a Notice of Inquiry to get comments on the planned expansion of the AM band. This is in preparation for the Regional Administrative Radio Conference in 1986. It is expected that that the upper limit of the AM band will be moved to 1700 from 1600, creating 10 new channels. These will not be available until 1990 and depend on reaching agreements with 40 other countries in this hemisphere.

LOGGINGS:

- 1615 NEW ZEALAND Ohura 1055 4/22 OR beacon, good. (Peterson @bev.)
1629 ??? 1050 4/22 MI161 or Z161 mixing w/ 2RPH, Australia. (Peterson @bev.)
1637 ??? 0123,0125,0127 5/21 KA80100 very good w/ very fast code. (Healy)
1640 ??? 1022 3/24 KA83694 fair, fade. Fast code. (Peterson)
1685 COLOMBIA Mercaderes 1013 5/5 MER fair w/ fades. (Peterson)
1689 PAPUA NEW GUINEA Mt. Hagen 1117 4/22 MH good. (Peterson @bev.)
1707 ??? 1032 3/24 2WJ and dash. ID and short dash sent for 30 seconds every four minutes. (Peterson)
1740 ??? 0156,0200,0204 5/21 KA5223 (not KA8!!) very good, fast code. (Healy)
1782 ??? 0405-0408 5/22 30 pip/minute station fair. Short pip only. (Healy)
2900h RI Lincoln 0215-0230 5/21 Local drive-in theatre harmonic. Very strong at 5+ miles. Should get out ok on skywave. (Healy)

Logging credits:

Art Peterson--Richmond, CA FRG-7, loop, longwire, tuner
Art Peterson--Año Nuevo Point, CA 1200' beverage site, FRG-7
me--same place, same stuff (sigh)

TEN TARGET STATIONS ON 175 METERS

- 1610 ANGUILLA The Caribbean Beacon is heard all over North America. Should be the easiest 175 meter station to hear.
1613 GUATEMALA Rabinal RAB beacon is heard everywhere.
1685 COLOMBIA Mercaderes MER beacon is also widely heard.
1675 ECUADOR Esmeraldas ESM beacon. Harder than MER but not too tough.
1615 NEW ZEALAND Ohura OR beacon. Only a West Coast target. Can be heard east of the Rockies, but don't bet the rent on it.
1709.5 ??? Decca HiFix station. Sounds like the morse code letter "J", with the first dit at a slightly lower frequency. Fairly easy.
1746 ??? Another Decca station like above. Not as strong, though.
1747 ??? Another Decca. As good as 1709.5 usually. Someday we'll find out where these things are.
1668 BELIZE 2nd harmonic of Belize-834. This is heard up into Canada and gets out better than 834 sometimes.
1635/1637 ??? This last target isn't a station, but rather a group of them. These are heard all over the country with various calls/times. There is something for everybody here.

Parting question: Any of you computer-genius types out there have a RTTY program/hardware for a TI99/4A computer? Receive-only is fine. Or any other interesting programs for that matter. I have a nice morse code program to trade, if you'd like. 'Til later.....



JOE JONES (WDEL/WSTW)

BEING PRESENTED THE OFFICIAL
RETIREMENT FIRE EXTINGUISHER
HAVING SERVED IN RADIO WITHOUT
AS MUCH AS BURNING DOWN A
STATION!!
Photo by C. Slezak

AL RESNICK &
THE CREW OF WLS!
THANKS!
VERMIES & THE PROGRAM WERE GREAT!

WBUC

1400 AM 1000 W. VA.

Phone: 773-4601
Buckhannon, West Virginia 26031

Guest Editor: Jay Newman



WBUC Radio is the culmination of one man's dream. Jay Newman, the sole owner of the station, dreamed of having a radio station when he was young. Hanging around the stations of the day, he was sometimes asked to leave. Never has any young person been asked to leave in any of his operations.

He knew that he would never have the money to begin a station, and then WWII came along, as a technician he was assigned to the Army Signal Corps. Already a "Ham" operator, his acquired knowledge came in handy, as did his ambition to be a broadcaster.

His assignment during the war was upper Assamk India, where he built a transmitter and operations console that became a regular Armed Forces Radio station. Not knowing the power limitation of 50 watts, he built a transmitter with 250 watts.

After five years of teaching electronics in military schools, he was assigned to Athens Greece in 1952, and again operated a broadcast station from his home there. It was a home built 250 watt transmitter. Not being about to have it officially recognized, there was some complications about operating, but the authorities managed to look the other way, and the station operated for 18 months three hours each evening bringing radio programs and music not only to the Americans in Athens, but it was learned the station was very popular with the young Greek people.

After returning stateside from Athens, Jay was assigned to the White House Communications, and aided in Presidential communications for five years from 1954 to 1959. Here, the desire to leave the military and begin a radio station grew, and WBUC was the result of a street corner talk with a friend who offered to invest in the operation.

Many locations were researched and rejected, until the community of Buckhannon, West Virginia was found. This looked good. Jay did the consulting engineering, prepared the complete FCC application, and was assigned a construction permit in 1959. The station began building in August 1959 as a 1000 watt daytimer, and went on the air in December 1959, with a minimum of equipment, and makeshift studios in a former farm house with a leaky roof.

In 1980, the station moved to its present studios due to some highway construction. The present studios have 2,500 square feet of office space, providing roomy shelter for a large studio with piano, two modern control rooms equipped for stereo, a large production room, equipped for monoaural, an outer lobby, large manager-bookkeeper-traffic office, transmitter room, automation room, four sales offices, program department office, two rest rooms, and a kitchen complete with refrigerator, sink, cabinets, table microwave and a couch for the benefit of the employees. An additional building of 500 square feet house the maintenance shops, emergency power generator with diesel storage tanks, and spare parts inventory.

A large attic in the building stores spare equipment, tapes, and miscellaneous items gathered by any pack rat type.

The WBUC building was designed and built for a radio station. The outer shell is steel, for minimum maintenance. The inner walls are all insulated, even interior walls to reduce sound transfer from one office to another. The interior walls are all free standing, being connected to the building only at the floor to reduce sound transfer and improve insulation. Ten inches of insulation on the outer walls and 16 inches in the ceilings allow for minimum heating. In addition, the transmitter heat is automatically transferred to heat the building in chilly weather.

The sound rooms have a second wall that is free standing to further reduce sound transfer. While these walls are all paneled, there is sheet rock behind each panel to reduce sound transfer and improve the building strength as well as its fire resistance.

WBUC increased power to 5,000 watts non-directional in 1961, and purchased a new Gates transmitter at that time. The same transmitter still operates with few modifications and virtually no problems.

Since the first days of operation with home type tape decks and no cart decks, the station equipment list has grown to an impressive amount. In addition to the 5,000 watt transmitter, there is now a 1,000 watt back up emergency unit that can be placed on the air in less than a second if it is

already warned, two minutes if it starts from a cold condition. The main control room houses a new 8 channel Collins stereo console, two Revox reel to reel players, four cart players, two turntables, and some of the audio processing units. While the console is stereo, it is presently strapped for mono output. However, it is ready for stereo AM transmission.

The second control room houses a second 8 channel Mark VIII Collins stereo console, two Revox reel stereo recorders, two ITC cart recorders, one cart player, two Technics turntables, stereo cassette recorders, distribution amplifiers, an Ampex reel mono recorder. WBUC does not use any records on the air, except rarely. All the music is transferred from a new record to a cart via the ITC recorders, and this room is used for all of the recording for the station. Old hit records are transferred to reel to reel tapes, along with the time they were hits and how high they went so the DJ has this information readily available.

The building provides for a fourth control room in a small room that will eventually become strictly recording. The present recording room will eventually, and hopefully become an FM control room.

There was a sister station from 1966 to 1974, and presently Jay and his wife of 38 years own a large percentage of a station in Florida with the call of WAUC. This station, just acquired, is being changed to fit the community, in order to give service to the community. Some of the programming from that station is recorded in the WBUC facility.

As a former listener and logger for the broadcast stations of the country, Jay always tries to answer every letter he receives from a young listener of today. He is active in the community, and frequently is involved with youth in his community. Some of these students have worked for him part time while in school, and have gone on to other larger markets, and even ownership of their own stations.

Anyone in the Buckhannon area while passing though is welcome to visit, but Jay is looking for an early retirement soon.

We want to thank WBUC owner Jay Newman for taking the time to write this profile of his station, and for the DX TEST which he conducted during the wee hours of June 7th for the NRC Membership. Thanks are due, also, to NRC Member Brian Pitman, for arranging for this station profile.

SUMMARY OF UNREPORTED STATIONS through Volume 51 #26 dated May 7, 1984

compiled by Don Kaskey

The following chart lists the total number of stations in the USA and Canada and the volume they were last reported as being heard in DX NEWS.

COUNTRY	V51	V50	V49	V48	V47	V46	V45	V44	V43	V42	Prior	Total
CANADA	226	82	35	12	12	9	7	1	2	0	30	=== 416
U.S.A.	2605	905	424	230	138	78	51	28	36	18	188	===4701
TOTAL	2831	987	459	242	150	87	58	29	38	18	218	===5117

New stations reported as having taken to the air during the period between V51 #23 through #26.

- 570-KIPO-HI (x-1350)
- 880-KIKR-TX (x-900)
- 1070-KBCL-LA (x-1220)
- 1100-WKLL-MO
- 1210-WCMQ-FL (x-1220)
- 1500-KABR-NM

Station KFWY-1560-Federal Way, WA lost its license and is deleted from the lists.

Previously unreported stations noted by NRC Reporters in DX NEWS since the last update (V51 #24)....Covers V51 #23 through #26:

- AZ---8---KVOI---690, KURT---710, KNEO---740, KGVY-1080, KHEP-1280, KFLT-1450, KSWA-1470 & KAIR-1490 (all by Fitzherbert vacationing in AZ)
- CA---8---KDOL-1340 (Kaskey-CA)
- FL---8---WCMQ-1210 (Schatz & Gleason-FL); WBAS-1330 (Mitkus-FL)
- NE---1---WHCU-1340 (Weeks-NE)
- MA---0---WCEA-1450 (Morss-MA)
- MO---2---KKLL-1100 (Winkelman-OK)
- NE---0---CJCW--590 (Weeks-NE)



A jazz enthusiast travelling across the remote, alabaster, sunwashed expanses of the southern Arizona desert along the flat ribbon of Interstate 10 can indulge the whim to hear some quality jazz by merely reaching over to the car radio and tuning in the 50,000 watt clear channel signal of KUAT-1550.

The most powerful station in Tucson, KUAT is the AM outlet of the Arizona Board of Regents. KUAT represents both a case study of the operation of a National Public Radio station, and a tale of a daytime radio station not profitable as a private operation, but, as a NPR affiliate, is a resounding success.

The genesis of KUAT came in 1968, when the owners of KTAN realized that they were making no money on their immense daytime, which had no PSA, thus losing a lot of potentially revenue-producing drive time.

The new owners happily went on the air on October 7, 1968, with a mixed jazz and classical format, and, with the purpose as stated by Cephas Bowles, Assistant General Manager, "to acquaint Tucson with social, political, and historical local issues, as well as those affecting the world". The original programming received a boost with the advent of National Public Radio. With the assistance of the Corporation for Public Broadcasting, NPR was established in 1970 to make available programming to educate and entertain, which is found on almost no commercial radio station. Today, KUAT is one of over 280 NPR-connected radio stations. In May, 1975, KUAT-FM, at 90.5, took to the air and became the premier classical music outlet for Tucson. At that time, a successful effort was made to fine-tune KUAT-AM into a combination information and jazz format, with many jazz-related features. An example of the latter is the recent four part series "Woman in Jazz", consisting of interviews and biographies of female jazz artists and composers. But KUAT is for more than a jazz station. Its extremely dedicated listeners hear four hours of folk music on Saturday and Sunday mornings. The "Radio Universidad" Spanish program at 1:00PM on weekdays has a wide following. NPR's 90 minutes magazine feature, "All Things Considered", is heard daily at 3:00PM, a KUAT produced news-magazine program airs at 9:00AM, and, during morning drive, NPR's satellite-fed "Morning Edition" (which rivals any commercial all news format for content) runs until 9:00. The NPR news is augmented by UPI News, and local stories, provided by two full time reporters and four stringers. On Saturday morning, the station broadcasts feature programs for Native Americans and Blacks.

The KUAT AM and FM studios are located on the second floor of the Modern Languages Building, on the expansive University of Arizona campus. The stations are not the campus radio stations, nor are they training grounds for aspiring student disc jockeys. Rather, the staff of fourteen is professional in every way. KUAT's chief announcer is a full time employee, and, on the FM, broadcasting from 5:00AM to Midnight, the three full time announcers are supplemented by a cadre of dedicated part time personnel. The FM audition is probably the most demanding of any station in the USA. To qualify as an FM announcer, an aspirant must demonstrate ability in the Romance Languages, and MUST INTRODUCE CLASSICAL SELECTIONS IN THE NATIVE LANGUAGE OF THE COMPOSER. The part time announcers are mostly retired people who love classical music, or students majoring in languages. KUAT's chief AM announcer is assisted by several student part time, who must be able to announce jazz selections, and be able to run a very tight board - necessary for the "Morning Edition", with its combination of network and local news, sports, weather, and features. KUAT's news programming, as an aside, has received more national and regional awards than has any other radio station in Tucson.

The total KUAT operation is staffed with 14 on air and support personnel - all veteran broadcasters, with years of experience, and a committed interest to Public Broadcasting. KUAT receives its feedback from Arbitron, as well as from independent sources. The station has a 6% share of the Tucson market. The music is supplied by record services - the station pays a flat fee for a given number of records per year. Additionally, some music is donated by local businesses and individuals. A full time music coordinator and a music assistant listen to the records, and program the FM months in advance. The Schwann Catalogue is a primary source for unusual recordings. The jazz music is likewise preplanned for KUAT-AM.

KUAT has produced for and sold to NPR network stations some remarkable programs. As Cephas Bowles notes, to attain the goal to "Educate as well as inform", KUAT has produced a 90 minute program on Child Molestation - an informative, non-threatening presentation to educate parents about this menace. KUAT hopes that NPR will buy the program for network distribution. Another program, "Miners in Arizona" looked at the hazards of long term copper mining on the health of Mexican-American Miners.

KUAT-AM-FM's budget requires \$500,000 annually, evenly distributed between the AM and FM. Grants from the business world, plus listener contributions - a listener can underwrite an hour of music at \$50/hour - provides much of the money to operate. However, three telethons a year raise an average of \$30,000 per campaign from appreciative Tucson citizens.

The second floor complex is located below ground level - the lower floor houses KUAT-TV. The AM facility includes a control room, equipped with two turntables and two cart machines, plus the board, a production studio, an

interview studio, adjacent to the control room, and, of course, a comprehensive jazz record library, and a collection of folk selections.

The transmitter and tower, a 400 foot high, guyed structure, is in a field eight miles north of Tucson, off Cortaro Road, adjacent to I-10. The primary signal carries from Mexico to Phoenix, and is heard all over the western half of the United States. KUAT-FM's 12.5 Kw signal originates from a transmitter atop 400 foot Mount Bigalo, with a translator on 89.7 for reception in the deep valleys of northwest Tucson.

KUAT is a most impressive and professional jazz, news, and features station, offering metropolitan Tucson an invaluable service, found on no other area station. The station is the result of many hours...and years of hard work by a totally committed staff. KUAT's employees may well be proud of the outstanding job that they have done in making KUAT an outstanding part of the cultural scene in Tucson.

We are deeply grateful to Cephas Bowles, KUAT Assistant General Manager, for his help in developing this Profile. Cephas, a transplanted resident of Jersey City, earned his B.S. in Radio and TV at Syracuse University. He is a former producer for a CBS News in New York City. Six years ago, enchanted with the Tucson climate, he came to KUAT as APD. In July, 1981, he was appointed to his present position. We appreciate his contribution to DX NEWS.



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
Environmental Research Laboratories
325 Broadway
Boulder, Colorado 80303
February 24, 1984

R/E/SE:HL

Dear Colleague:

In order to permit users of NOAA's space environment services and supporting research to undertake long-term planning, we are providing advance information concerning possible changes in this program.

The President's FY 1985 budget, submitted to Congress in January 1984, contains a decrease which may have an impact on you as a user of the services of NOAA's Space Environment Laboratory (SEL) and its Space Environment Services Center (SESC). The reduction of NOAA funds for solar-terrestrial services and research would terminate a number of activities, of which the following are presently included in our planning: (1) The WWV broadcasts of the geophysical alerts; (2) Publication of the "Weekly Preliminary Report and Forecast of Solar-Geophysical Data"; (3) Space environment instrument maintenance; (4) The design and development of new sensors (e.g., an X-ray imager and a low-energy particle detector) for NOAA and NASA satellites; (5) Supporting research to improve the quality of solar forecasts and to implement new forecasting techniques; (6) Long-range research to upgrade services through improved solar-terrestrial monitoring and instrumentation. In addition, the primary change would be that the 24-hour per day alert and warning services would be reduced to 8 hours per day, weekdays only.

Three significant events have taken place in the last few months relevant to the Space Environment Laboratory: (1) In July 1983, "The National Plan for Space Environment Services and Supporting Research, 1983-1987" was issued by the Federal Coordinator for Meteorological Services and Supporting Research (FCM-P10-1983, Washington, D.C. 20852). This documents the national space environment services program and concludes that the present interagency coordinated program is a cost effective way to meet the national civilian needs for space environment services. In this plan, agreed upon by all interested government agencies, the SEL continues its key role in operating the national civilian Space Environment Services Center, jointly operated with the Air Weather Service; (2) During 1983, a contract was awarded to industry to provide a new real-time data processing system to replace the current obsolescent SELDADS system. When implemented, beginning in FY 1985, the new system will greatly enhance the quality and timeliness of the monitoring and forecasting services; (3) On February 16, 1984, the SEL inaugurated a new satellite-based system for disseminating forecasts and warnings to users to include the most complete and current solar-terrestrial information on a continuous basis.

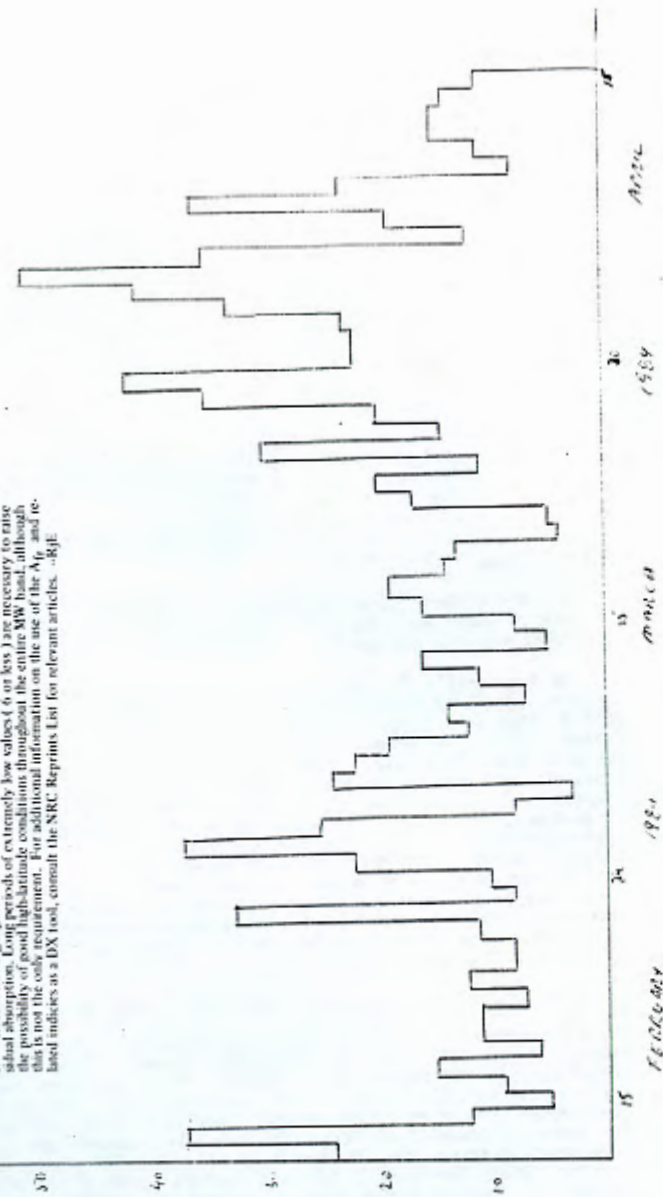
Comments on your priorities for continued space environment services will be helpful to us in establishing the service priorities during FY 1985 within the President's budget.

Respectfully,

Harold Leinbach
Harold Leinbach, Acting Director
Space Environment Laboratory



This graph shows the daily variations in A_p , the Friedrichsberg (WA) index of geomagnetic activity in the earth's magnetic field. High values (above 20) indicate that magnetic storms with upper latitude paths will likely be observed, resulting in significant absorption of the signals from the station. Low values (below 10) indicate a likelihood of more receptions on the higher-latitude paths — more, and more northerly TA's and TP's. Several days of low values following higher ones are needed for conditions to return to "normal", due to the gradual absorption. Long periods of extremely low values (6 or less) are necessary to raise the possibility of good high-latitude conditions throughout the entire MW band, although this is not the only requirement. For additional information on the use of the A_p and related indices as a DX tool, consult the NRC Reprints List for relevant articles. —RJE



WXSS/Memphis Plans A/C Debut

After four years of application procedures, Minority Broadcasting of the Midwest, Inc. has received a construction permit to build WXSS/Memphis, an AM station at 1030 kHz. Charles Wingate, a 42-year Southern broadcaster, has been named GM of the facility, which is expected to debut July 1 with an A/C format. Programming and staff appointments are forthcoming.

A broadcast contract engineer, Wingate joins WXSS after seven years in the communications division of the Memphis Police Department. He previously worked 12

years as an engineer for two local TV stations, and before that, was a principal/GM at WFUL-AM & FM/Fulton, KY. Wingate told R&R, "I'm very happy to be joining this group because I feel it's a very exciting opportunity. It's not often you get a chance to build a 5kw clear channel station from the ground up, so I feel very fortunate to have been selected to do it. I've conducted a lot of market research on this particular project, and I see the station's gross revenue potential as \$1.5 million annually."

WXSS has been designated to broadcast with 5kw non-directional days, but will reduce power to low directional at night in order to protect WBZ/Boston and KTYVO/Casper. Wingate commented, "During the day we expect to cover well beyond the

Memphis metro, into parts of Tennessee, Arkansas, Mississippi, Louisiana, Kentucky, and Missouri."

The arrival of WXSS will provide Memphis with only its second A/C station (WRVR is the other). Wingate noted, "The format will be a music-oriented A/C targeting 25-54 year-olds, but we'll be featuring agricultural programming in early mornings."

Minority is headed by WXOL/Chicago partner Pervis Spann and Memphis producer/recording studio operator Willie Mitchell. —RSP

WBAX 1240 AM WILKES-BARRE, PA

"GREAT STARS, GREAT MUSIC, 24 HOURS A DAY"

This is a very short profile of WBAX, the "Station of the Stars" with the "Stardust" service. Formerly country and western, WBAX's format is "live" during the day, and at night from 12 to 6AM, WBAX uses the Satellite service. They are supplied with programming suggestions by the originators of the "Station of the Stars", WPEN-950 Philadelphia. WBAX or We Burn Anthracite exclusively (anthracite is hard coal), was the sixth licensed commercial broadcasting station in the country, beginning operation in 1922. WBAX began on 833 KHz, then moved to 1210 KHz, and finally in 1939 moving to its final position of 1240. In 62 years of operation, there have been only three owners, the current being the Merv Griffin Radio Group.

The author wishes to thank Mr. Ron Schacht, Chief Engineer, who verified his report.

WHEX 1500 KHz COLUMBIA, PA

"WE'RE GOOD FOR YOUR EARS"

Located in the beautiful Susquehanna Valley, adjacent to the Susquehanna River, and rich in Pennsylvania dutch History, Columbia is now the home of the new WHEX! Local listeners of this pleasant community of nearly 12,000 residents last heard this station in 1976 as WCOY, but because of financial problems, it went off the air. To get back on, WHEX spent about \$100,000 using much of the equipment that belonged to the previous owners of WCOY which began operation in the late 50's. The new company operating WHEX is Columbia Broadcasting Corporation, and is based in King of Prussia. Partners in the firm are Ted Perkins, a marketing salesman, Ralph Gaze, an electrical engineer, and Donald Burrows, and engineering consultant. WHEX carries a full-time staff of 5 (station manager, secretary, sales, and news personnel), while 2 part-time staff persons work on weekends.

Then it began. On Thursday morning, May 10, 1984 after midnight, WHEX conducted an equipment test, which was heard by this author, and officially began commercial broadcasting at 6AM the same morning. WHEX currently operates non-directionally with 500 watts daytime into a 99 foot tower. The entire operation (tower, studio, offices, transmitter, and satellite dish) is located on a site of 3 acres on Schultz Road, Washington Boro, RD#1. The transmitter is a brand new MW-1A Harris 1KW. The broadcasting facilities of WHEX are up-to-date and state-of-the-art. The daytime coverage extends northeast to part of Reading, south to Bel Air, Maryland, and northwest for all of Harrisburg. In the primary area are the cities of York and Lancaster. WHEX's total coverage extends for all of York and Lancaster counties, a population of 689,000.

As for programming, WHEX chose Adult Contemporary which would include light top 40, some easy listening, and selected "solid gold" music. The owners and management felt it would "appeal to more people" in the area, reaching affluent adults, ages 25-49. Then they wanted to have disc jockeys with a very professional sound and a system aimed at providing an efficient economic operation, WHEX staffers selected the Satellite Music Network and "Star Station" format. Local announcers provide the area with news and advertisements, while DJs, sounding like they were at WHEX, would be in the SMN studios in suburban Chicago, all in keeping a totally local flavor.

With Columbia's favorable climate, excellent transportation links, location, and ready market combining to make the city an attractive home for industry, WHEX is the only radio station serving the Columbia community, and is dedicated to serving residents of Central Pennsylvania.

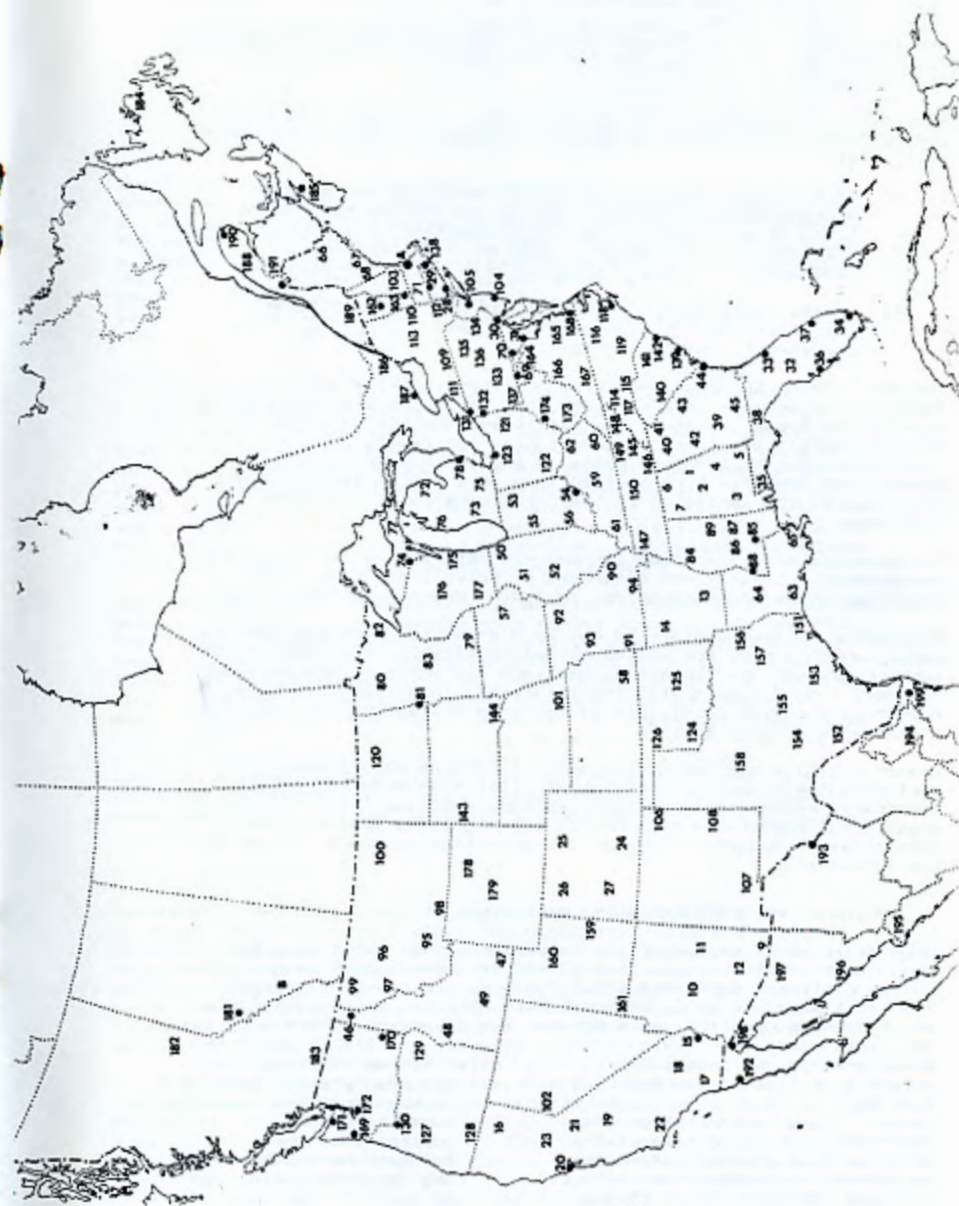
The author would like to thank Mr. Douglas J. Neatrour, Station Manager, for sending this information. This story was condensed from a prompt letter of verification, a copy of an article from the Intellegger Journal of Lancaster, and a station-market profile. Mr. Neatrour is from Chester County, Pennsylvania and has worked 16 years in all facets of radio, including a stint as an announcer at WNOW in York, and most recently as a general manager of a station in Fort Dodge, Iowa. And correspondence should be addressed to Mr. Neatrour at Box 270, Columbia, PA 17512.

1984 NRC CONVENTION
LABOR DAY WEEKEND
REGISTRATION DEADLINE AUG 15TH

1450 KHZ LOCAL CHANNEL

1. WDSG	ANNISTON	A. WCEA	NEWBURYPORT	141. WNSC	HARTSVILLE
2. WSMQ	BESSEMER	71. WNAS	SPRINGFIELD	142. WMYB	MYRTLE BEACH
3. WCOX	CAMDEN	72. WATZ	ALPENA	143. KRFS	BELLE FOURCHE
4. WDLK	DADEVILLE	73. WHTC	HOLLAND	144. KYNT	YANKTON
5. WQNT	DOTHAN	74. WYIO	IRON MOUNTAIN	145. MLAR	ATHENS
6. WFIX	HUNTSVILLE	75. WYCM	JACKSON	146. WZRA	CHATTANOOGA
7. WLAY	MUSCLE SHOALS	76. WKLA	LUDINGTON	147. WNSC	DYERSBURG
8. KIAM	CORDOVA	77. WBYB	NEWBERY	148. WSMC	GREENEVILLE
9. KDAP	DOUGLAS	78. WHLS	PORT HURON	149. WJAF	LA FOLLETTE
10. KNOT	PRESCOTT	79. FATE	ALBERT LEA	150. WONS	MURFREESBORO
11. KVSL	SHOW LOW	80. KBUN	RIMIDIJI	151. KAYC	BEAUMONT
12. KFLL	TUCSON	81. KRNM	BRECKENRIDGE	152. FBEN	GARRIZO SPRINGS
13. KJMH	CAMDEN	82. WELY	ELY	153. KCTI	CONZALES
14. KENA	MENA	83. KNSI	ST. CLOUD	154. FMHL	JUNCTION
15. KJME	BLTYRE	84. WROX	CLARKSDALE	155. KCYL	LAMPASAS
16. KAVA	BURNEY	85. WCJU	COLUMBIA	156. KMTT	MARSHALL
17. KQMN	ESCONDIDO	86. WJEN	JACKSON	157. KNET	PALESTINE
18. KPSI	PALM SPRINGS	87. WQIC	MERIDIAN	158. KSNY	SNYDER
19. KTIK	PORTERVILLE	88. VNAT	NATCHEZ	159. KUPA	NOAB
20. KEST	SAN FRANCISCO	89. WROB	WEST POINT	160. KEYV	PRIMO-OREN
21. KVMJ	SONORA	90. KFTW	FREDERICKTON	161. KDXU	ST. GEORGE (CP: TO 890)
22. KEVN	VENTURA	91. WMBH	JOPLIN	162. WNSO	BARRE
23. KORO	YUBA CITY	92. KIRN	KIRKSVILLE	163. WMSA	BRATTLEBORO
24. KCIW	ALAMOSA	93. KOKO	WARRENSBURG	164. WFTF	FRONT ROYAL
25. KYOU	GREELEY	94. KWPM	WEST PLAINS	165. WNGZ	HIGHLAND SPRINGS
26. KMKR	MEEKER	95. EXXL	BOZEMAN	166. WREL	LEXINGTON
27. KDRM	SILVERTON	96. FQDI	GREAT FALLS	167. WMYA	MARTINSVILLE
28. WVAR	BRIDGEPORT	97. KGRZ	MISSOULA	168. WLPN	SUFFOLK
29. WBJM	POQUONOCK	98. KRBN	RED LODGE	169. KAVO	ABERDEEN
30. WILM	WILMINGTON	99. KSKR	WHITEFISH	170. KCLX	COLFAX
31. WOL	WASHINGTON	100. KVCK	WOLF POINT	171. KOMP	PORT ANGELES
32. WJFB	BROOKSVILLE	101. KWBE	BEATRICE	172. KJUN	PAYALLUP
33. WNFJ	DAYTONA BEACH	102. KONE	RENO	173. WGBB	MADISON
34. WOCN	MIAMI	103. WKXL	CONCORD	174. WIKS	PAPERSBURG
35. WBSR	PENSACOLA	104. WJIN	ATLANTIC CITY	175. KFIZ	FON DU LAC
36. WSPB	SARASOTA	105. WCTC	NEW BRUNSWICK	176. WDLR	MARSHFIELD
37. WSTU	STUART	106. KLMX	CLAYTON	177. WRCO	RICHLAND CENTER
38. WTAL	TALLAHASSEE	107. KOSE	LAS CRUCES	178. KBBS	BUFFALO
39. WGPC	ALBANY	108. KENP	PORTALES	179. KVOW	RIVERTON
40. WSHF	CARTERSVILLE	109. WCLI	CORNING	180. WCPR	OSANDO PR
41. WCON	CORNELIA	110. WQSC	CLENS FALLS	8. C	CANMORE
42. WKEU	GRIFFIN	111. WHDL	OLEAN	181. CKYR	JASPER
43. WQVC	HILLEDGEVILLE	112. WKIP	POUCHKEEPSIE	182. CHET	CHETWYND
44. WNAM	SAVANNAH	113. WKAL	ROME	183. CKSP	SUMMERLAND
45. WVLD	VALDOSTA	114. WATA	BOONE	184. CBC	GANDER (CP: TO 1400)
46. KBFI	BONNERS FERRY	115. WCNC	GASTONIA	185. CFAR	WINDSOR
47. KYSI	MONTPELLIER	116. WIZF	HENDERSON	186. CFJR	SPOCKVILLE
48. KYET	PAYETTE	117. WHKP	HENDERSONVILLE	187. CHUC	PORT HOPE
49. KEEP	TWIN FALLS	118. WJQI	NEW BERN	188. CJRM	CAUSAPSAL
50. WCEV/ WVON	CICERO	119. WRZK	SPRING LAKE	189. CHEF	GRANBY
51. WKET	KEMANEE	120. KCCA	RUGBY	190. CIMV	MURDOCKVILLE
52. WCVS	SPRINGFIELD	121. WJER	DOVER	191. CHRT	ST. ELEUTHERE
53. WAFX	PORT WAYNE	122. WMOH	HAMILTON	192. XESS	ENSENADA
54. WKVV	JEFFERSONVILLE	123. WLEC	SANDUSKY	193. XEQU	OJINAGA
55. WASK	LAFAYETTE	124. WWHW	ALTUS	194. XEJM	MONTERREY
56. WAOV	VINCENNES	125. XGFF	SHAWNEE	195. XEGU	EL FUERTE
57. KPME	CEDAR RAPIDS	126. XSIW	WOODWARD	196. XEPE	EMPALME
58. KWBW	HUTCHINSON	127. KEED	SPRINGFIELD	197. XEDJ	MAGDALENA
59. WFXJ	CAMPBELLVILLE	128. KFIS	KLAMATH FALLS	198. XECB	SAN LUIS
60. WXXL	MANCHESTER	129. KLRN	LA GRANDE	199. XEVH	VALLE HERMOSA
61. WDXR	PADUCAH	130. KRPS	PORTLAND	200. CMJF	MANCIO RIO CUBA
62. WLKS	WEST LIBERTY	131. MEY2	ERIE	* = NOT PLOTTED	
63. KSIQ	CROWLEY	132. WFRA	FRANKLIN		
64. KNOC	NATCHITOCHE	133. WDAD	INDIANA		
65. WMIW	NEW ORLEANS	134. WPAM	POTTSVILLE		
66. WLKN	LINCOLN	135. WFXS	S. WILLIAMSPORT		
67. WPKD	ROCKLAND	136. WHAJ	STATE COLLEGE		
68. WOXO	SOUTH PARIS	137. WJPA	WASHINGTON		
69. WTBO	CUMBERLAND	138. WKRI	WEST WARWICK		
70. WTHU	THURMONT	139. WCCA	CHAPLETON		
		140. WCRS	GREENWOOD		

STATION LOCATION MAP



BY:

BILL HALE

Randall J. Seaver
May, 1984

1. INTRODUCTION

Lankford [1984] derived the critical frequency formulae for transverse and longitudinal propagation and computed numerical solutions for low wave elevation angles with typical and minimal nighttime mid-latitude ionospheric electron densities. The paper notes that longitudinal propagation (i.e. along magnetic field lines) is not consistent with low wave angle propagation at mid-latitudes, thereby leaving quasi-transverse propagation as the major mode for determining oblique wave critical frequencies of the ionospheric regions.

Appendix I interpreted the numerical results as they apply to Medium Frequency propagation at mid-latitudes and concluded (in part) that:

- In the early evening hours, the best long distance MF propagation will be near the top of the BCB band where F_o (ordinary wave, F-region) propagation is possible and a larger low band segment (say 600-1100 khz) where F_x (extraordinary wave, F region) propagation is possible.
- In the early morning hours (local midnight and later) the entire BCB is hypothetically open for F_o , F_x , and combined F_o and F_x propagation.

For the case of European and/or Asian reception from North America, the Appendix hypothesized that the signals are propagated by both the E-region (at higher latitudes) and the F-region (at mid-latitudes), due to the higher ionization levels at high latitudes. For North-South paths (e.g., Latin America or Down Under), the Appendix hypothesized that an E-/F- region mix might occur due to the variation in the gyrofrequency in the lower latitudes.

The Appendix also discussed ionospheric absorption, the effects of geomagnetic activity, and concludes by briefly covering other potential modes of propagation, including ordinary E-region modes.

My purpose in this article is not to discuss the main body of the paper, which I have not evaluated mathematically, but seems to be technically correct for the assumptions for which it was derived; however, I do disagree with the interpretations provided in the Appendix, and wish to discuss my own interpretations more fully in the balance of this article.

Seaver [1978] presented a discussion of Medium Wave propagation, including the nighttime E-region critical frequency for oblique "ordinary" waves. This article provides additional information to support the hypothesis that nearly all nighttime long-distance Medium Wave propagation occurs via refraction in the E-region of the ionosphere.

2. ORDINARY VS. EXTRAORDINARY WAVES

When radio waves encounter the ionosphere, they split into two components, called the "ordinary" and "extraordinary" waves. They follow different paths and incur different ionospheric losses. The total wave energy is shared between the two waves in a ratio which depends upon the angle between the direction of the wave and the Earth's magnetic field vector. Olver et al. [1971] gives the equations for the losses due to this "polarization coupling" that occurs each time a wave enters and leaves the ionosphere. Only on East-West paths at equatorial latitudes does the "ordinary" wave suffer a large polarization loss. On the other hand, the "extraordinary" wave polarization loss is greater than the "ordinary" wave polarization loss, except for East-West paths at equatorial latitudes. For instance, at 60 degrees geomagnetic latitude (which is about 30 degrees latitude in North America), the "ordinary" wave has a polarization loss of about 1 dB, while the "extraordinary" wave suffers a loss of 7 dB.

The ionospheric absorption experienced by the "extraordinary" wave is infinite at the gyrofrequency, and greater than that experienced by the "ordinary" wave at frequencies above and below the gyrofrequency, according to Knight [1975] and others.

The conclusions that one can draw from the Olver [1971] and Knight [1975] papers is that the "extraordinary" wave mode is not a viable candidate for long-distance nighttime Medium Frequency propagation, especially for high and mid-latitude propagation paths below the gyrofrequency. Consequently, Lankford's [1984] hypothesis that the F-region is responsible for Medium Frequency propagation in the frequency range of 600-1100 khz, via the "extraordinary" mode, is not validated.

3. IONOSPHERIC ELECTRON DENSITY

The Lankford [1984] paper uses an E-region critical frequency of 300 khz (measured with a vertical ionogram) as representative of a minimal nighttime E-region mid-latitude ionosphere, and a 550 khz critical frequency for a typical E-region ionosphere. A review of the literature indicates that the minimal nighttime ionosphere may occur only in low-sunspot years and at times of low geomagnetic activity in mid-latitudes, as Lankford stated.

The E-region is a dynamic field composed of molecules, ions and free electrons. Solar radiation causes ionization to occur during daytime hours, with the number of electrons peaking near noon. The electron density continues to fall off after sunset, reaching a minimum near midnight (see Knight [1972] for typical values). This minimum electron density may be as low as 1000 electrons/cu.cm in sunspot minimum years, but typically is 3000-5000 electrons/cu.cm. near midnight, and significantly higher near sunset.

Figure 1 shows the variation of "ordinary" wave oblique propagation critical frequency as a function of ray elevation angle and E-region electron density, from Seaver [1978]. This figure shows good correlation with Lankford's [1984] "ordinary" transverse wave oblique critical frequency data (since 300 khz vertical corresponds to about 1100 electrons/cu.cm. and 550 khz vertical corresponds to about 3750 electrons/cu.cm.). The figure shows that for an E-region electron density of 1000 electron/cu.cm. and a wave incident at or below 5 degrees, the critical frequency will be above 1500 khz, thereby effectively blanketing the Medium Frequency band for "ordinary" wave propagation.

The conclusion that one can draw from this information is that the minimal electron density occurs only rarely at midnight, and that the E-region electron density at sunset is significantly greater than it is at midnight. There is sufficient E-region ionization to refract low angle medium waves, even when the minimal electron density exists. Only on occasions when the minimal electron density occurs will "ordinary" waves on the higher BCB frequencies (above 1200 khz) and at high elevation angles pass through the E-region and be refracted by the F-region. Consequently, Lankford's [1984] hypothesis that the entire BCB is open in the early morning hours for F-region propagation via the "ordinary" wave, the "extraordinary" wave, or a combination of the two modes, is not valid.

4. ELEVATION ANGLE

Lankford [1984] uses 5 and 10 degree wave elevation angles to provide examples and to support his hypothesis that the F-region is mainly responsible for propagating mid-latitude Medium Frequency signals. Data in Knight [1975] and others indicate that one-hop paths at elevation angles down to 0 degrees and multi-hop paths down to 1-5 degrees are the predominant mode of Medium Frequency long-distance propagation via the E-region "ordinary" wave.

The prevalent model (i.e. Knight [1975] and others) of E-region refraction of Medium Frequency "ordinary" waves results in a maximum one-hop distance of about 2200 km (1360 statute miles). This is consistent with my own DX experience wherein stations within 2200 km are much stronger and consistent (i.e. less fading minute-by-minute, and with less day-to-day variation in signal strength) than are stations at distances greater than 2200 km. My "one-hop" clear-channel stations in Southern California include KBDI-670, WBAP-820, KDA-850, KRVN-880, KOMD-1000, KTNO-1030, KSL-1160, WDAI-1200, KOMA-1520, and XERF-1570. These stations are always in during the evening hours at relatively high signal strengths. On the other hand, my "greater than one-hop" stations, including CBK-540, MSM-650, XERPM-660, XEX-730, KOB-770, WCCD-830, Belize-834, WHAS-840, WML-870, WLS-890, WHO-1040 and XEB-1220, are

often at relatively low signal strengths; there are times when the "two-hop" path signals are equal to the "one-hop" path signals on adjacent frequencies, but these occasions are relatively few. Auroral absorption may account for some of the variability for the more northern paths. The "two-hop" path signals also experience more frequent fading rates, which would be consistent with the prevalent theory.

The argument put forward by some DXers concerning low elevation angle paths (say, less than 5 degrees) is that ground attenuation reduces the field strength significantly. This is true, but the extra ground attenuation loss for a low angle wave is usually less than the extra ionospheric and ground reflection losses suffered by a higher elevation angle wave with more hops. Knight [1975] provides data to calculate the various path losses. The ground attenuation loss is mainly a function of ground conductivity, elevation angle and frequency. For a 1 degree elevation angle, the sea water loss is only 2 dB, for good ground conductivity (10 mS/m) the loss is about 10 dB, and for poor ground conductivity (1 mS/m) the loss is about 20 dB. For a 5 degree angle, the losses are 0 dB (sea water), 5 dB (10 mS/m), and 10 dB (1 mS/m).

To illustrate this difference, Figures 2 and 3 show the field strength analysis for the path San Antonio (WOAI-1200) to Chula Vista on a night with minimal E-region ionization for one-hop and two-hop paths, respectively. The field strength analysis is based on the Knight [1975] methods of analysis. Figure 2 shows that the one-hop path has a 1.5 degree elevation angle and results in an estimated field strength of 43 dB. For the two-hop path of Figure 3, the elevation angle is 9.1 degrees and the estimated field strength is 33 dB. The 10 dB difference in signal strengths means that the one-hop path will dominate and should provide a stable signal. Indeed, WOAI-1200 is received at an estimated 40-45 dB in Chula Vista on an average early morning.

5. IONOSPHERIC ABSORPTION

Lankford [1984] states "accurate theories of absorption exist only for vertical incidence and frequencies above 2 mhz". I disagree with this statement; the generalized magneto-ionic theory of Sen and Wyller [1960] provides the best available theory and includes the effects of the Earth's magnetic field and electron collisions on both ionospheric refraction and ionospheric absorption. When the actual electron density profile of the ionosphere is modeled in a ray-tracing computer program (e.g. Jones and Stephenson [1975]), medium and short wave path ionospheric absorption can be calculated accurately.

Knight [1975] provides ionospheric absorption losses for a model "mean" nighttime ionosphere in the range of 3 to 12 dB (decreasing as frequency increases and lower on North-South paths); this data was derived from ray-tracing computations. I have also run the Jones and Stephenson [1975] ray-tracing program with different model ionospheres to investigate the effects of the electron density profile on ionospheric absorption. My results indicated that ionospheric absorption is very dependent on the level and reflectivity of the electron density profile. For instance, raising the "mean" electron density profile only 5 km reduced the absorption significantly. The absorption was also significantly reduced if the electron density was more reflective, i.e. if the electron density gradient was increased (this includes sporadic E layers which have a very high gradient). The conclusion that one can draw from this information is that ionospheric absorption is highly variable due to the day-to-day and hour-by-hour variations in the E-region of the ionosphere.

My own hypothesis is that "great" DX conditions at mid- and low latitudes occur when the E-region of the ionosphere is raised above the "mean" and/or is more reflective. With such conditions, the absorption on one or more hops is reduced (perhaps even zero) and the signal strength of both strong and weak signals are enhanced, either generally or from one particular geographic region. However, there may be other factors that "enhance" long distance Medium Frequency signals, such as M-type paths (where a wave gets trapped between the E and F regions over much of the path) and chordal paths (where the wave does not suffer a ground reflection loss, due to magnetic field effects or an ionospheric tilt).

Nelson [1971] described the effects of the Earth's auroral zone on high-latitude paths. In the auroral zone, the precipitation of energetic particles into the D-region of the ionosphere results in more ionization and hence higher electron densities at altitudes down to 60 km. These high electron densities cause very high ionospheric absorption that greatly reduces the signal strength of waves passing through the zone. DXers in the northern latitudes frequently experience "auroral" conditions wherein northern stations have low signal strengths due to the auroral absorption effects, thereby allowing southern stations to be heard.

The auroral zone is actually an oval with a width of 10-15 degrees latitude, centered on the magnetic pole, that rotates diurnally, with the most southward extent near local midnight due to the effects of the solar wind on the Earth's geomagnetic field. The easiest way to visualize this is to consider a thick "curtain" hanging down to about 60 km altitude; within the "curtain" there are high electron densities. The auroral oval migrates toward the equator during periods of higher geomagnetic activity and toward the magnetic pole during periods of lower geomagnetic activity. The southward extent of the auroral oval seems to control the reception of high latitude European stations in Eastern North America and the reception of high latitude Asian stations in Western North America. This occurs as a result of the sharp increase in electron density at low altitudes as the radio wave enters the auroral oval, resulting in high absorption.

However, under some conditions, reception of high latitude stations may occur through the "doughnut hole" in the auroral oval. In this case, the radio waves are propagated through the auroral zone, passing beneath the auroral oval "curtain", and refracting from the ionosphere within the "doughnut hole". This mode is thought to be responsible for reception of European stations in Northwest North America and Asian stations in Northeast North America.

6. CONCLUSIONS

The conclusions drawn in this article concerning Medium Frequency oblique propagation include:

- The "ordinary" ray is the primary mode by which medium waves propagate, since the "extraordinary" wave is greatly attenuated by polarization loss and absorption. The exception is East-West paths at equatorial latitudes.
- The E-region of the nighttime ionosphere contains sufficient electrons to refract low elevation angle (5 degrees or less) "ordinary" Medium Frequency waves back to Earth. Only when the E-region electron density is extremely low, the wave BCB frequency is relatively high, and/or the elevation angle of the wave is relatively high will the "ordinary" wave pass through the E-region and be refracted from the F-region.
- Assuming E-region refraction of "ordinary" waves, the maximum one-hop distance is about 2200 km, and the observations of this DXer confirm this. For multi-hop paths, a rule-of-thumb of about 1000 statute miles (about 1600 km) per hop is reasonable.
- Ionospheric absorption can be highly variable, and cases of very low absorption are probably the cause of enhanced signal strengths. Very high absorption of radio waves in the auroral zone effectively prevents some reception of high latitude European and Asian stations in North America.
- It is possible to compute ray paths and ionospheric absorption of Medium Frequency radio waves using sophisticated computer programs. These methods depend on an accurate representation of the Earth's magnetic field, electron collision rates, and ionospheric electron density profiles to result in accurate results.
- It is possible to compute average field strengths of radio waves using relatively simple computer programs that account for all of the losses and gains for the ray path. Knight [1975] and PoKempner [1980] provide methods to do these calculations.

In the above sections, I mentioned some of the research I've carried out using the Jones and Stephenson [1975] ray-tracing computer program and the average Field Strength prediction program based on Knight [1975]. I hope to write articles in the future on the results obtained using these two programs. Some of this research has been presented at the NRC/Los Angeles (1980) and IRCA/Seattle (1983) conventions.

It is worthwhile noting that every article, report or book that I've read that describes Medium Frequency propagation states that the nighttime E-region is the primary mode of long-distance medium wave reception. It is interesting that only DXers have hypothesized that the F-region is the primary mode for Medium Frequency propagation.

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Getting Beachgoers Out of a Jam

With summer approaching, state park officials are looking at an old formula: Take one warm summer day, add thousands of cars filled with kids and mix well with a long wait heading for Jones Beach or Robert Moses State Park.

The result? A heavy dose of frustration. But help may be on the way.

Now drivers don't know if the long lines of cars heading toward the beach are just backed up, or if the parking lots are filled. Even with the posted signs, there's no way to be sure where to leave the car once people are able to reach the beach's traffic circle. "People don't know where to go... they go everywhere," said the Long Island State Park Commission's director of business, Howard Kraus.

But those problems could be eased after the Fourth of July, when a new communications system will start operating, allowing drivers to turn on car radios and get up-to-the-minute beach and traffic reports.

Workers have already buried mile-long cables along the parkway approaches to Jones Beach and Robert Moses State Park, and are getting ready to test the \$150,000 system.

The low-power broadcasts can be picked up only along the approach roads, and will be at 640 AM.

Motorists on the Meadowbrook Parkway will be able to turn around when they reach the toll plaza, while drivers on the Wantagh Parkway will be able to turn around at the gas station south of Merrick Road. Drivers going to Robert Moses, where Kraus said the back-ups can be even longer than at Jones Beach, will be able to turn around at the old toll plaza.

—Mitchell Freedman

VIA ANDREW REININGER

NEWSDAY 5/10/84

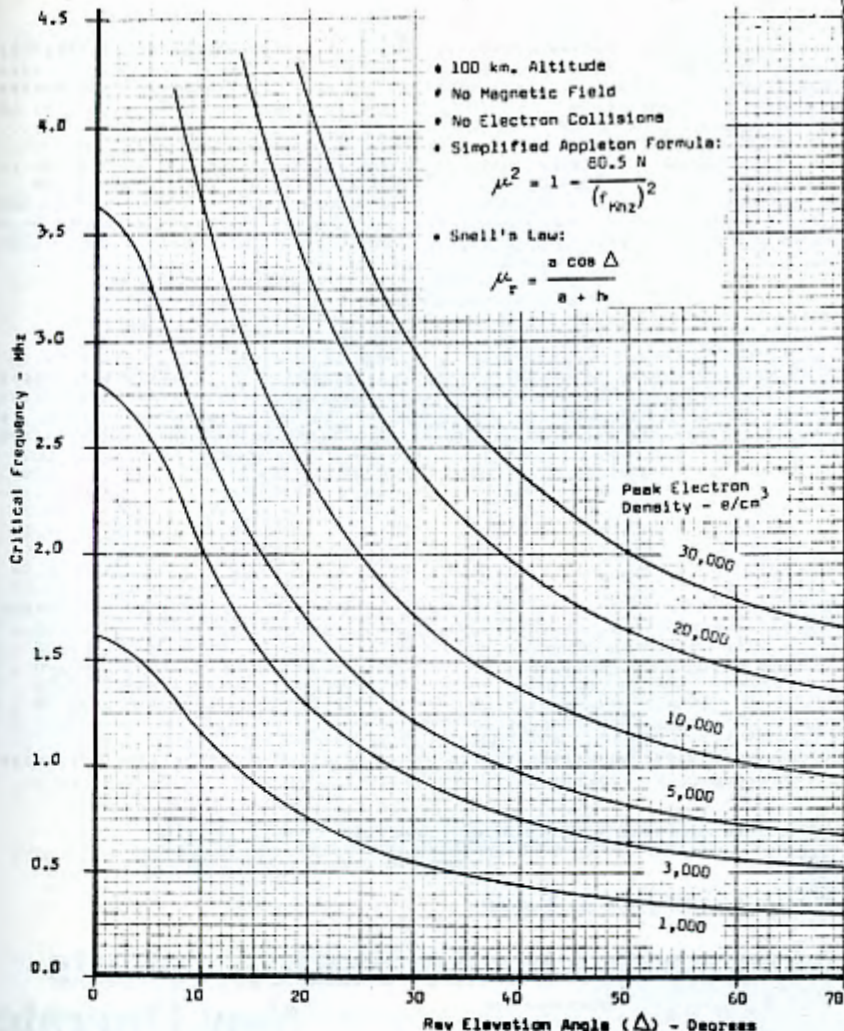


FIGURE 1. OBLIQUE RADIO WAVE E-REGION CRITICAL FREQUENCIES

CFRB tests AM stereo receiver

By JONATHAN CHEVREAU

Automobile audio buffs stymied over the four incompatible AM stereo transmission standards that have emerged in North America may have a solution in a multi-system receiver being installed in cars owned by CFRB Ltd. of Toronto.

CFRB, which has been quietly broadcasting in AM stereo three hours a night and plans a full-time service in August, has fitted the Sansui model CX90, made by Sansui Electric Co. Ltd. of Japan, into several of its cars to test AM stereo service.

On the transmission side, CFRB is trans-

mitting on two standards — the Motorola/Delco and Magnavox systems. Systems used elsewhere include Harris, used by CHUM Ltd. of Toronto, and Kahn-Hazeltine.

Consumers have been understandably reluctant to invest in a receiver that may not be used widely. U.S. regulators have opted to let the market choose a standard. And the auto market is one of the most promising ones for AM stereo because of the large commuter audience.

Sony Corp. of Japan has a portable version that allows all four standards to be used, but Sansui is among the first of automobile versions to do the

same. It uses a universal chip that allows the listener to receive transmissions in any of three standards automatically, and a fourth standard at the flick of a switch.

So far, demand for the product is far outstripping supply, according to Gerry Morgenroth, product manager, electronics division, for W. Carsten Co. Ltd., the Canadian Sansui distributor. It and distributors elsewhere in the world have been put on an allocation system by Sansui.

The AM stereo version costs only \$30 more than the non-AM stereo version, which has a suggested retail price of about \$690, Mr.

Morgenroth said. Sansui also has a digital disc player for automobiles in the prototype stage that may work in conjunction with AM stereo.

There are not yet enough AM stereo receivers in the field for CFRB to assess the advertising implications, said John Sprague, vice-president programming. "It gives a little sizzle if you want it," he said. CFRB's tests appear to have shown that the stereo broadcasts do not affect the station's usual mono transmissions, he said.

Those in the industry expect that most 1986 model cars will have AM stereo and FM stereo as an option.

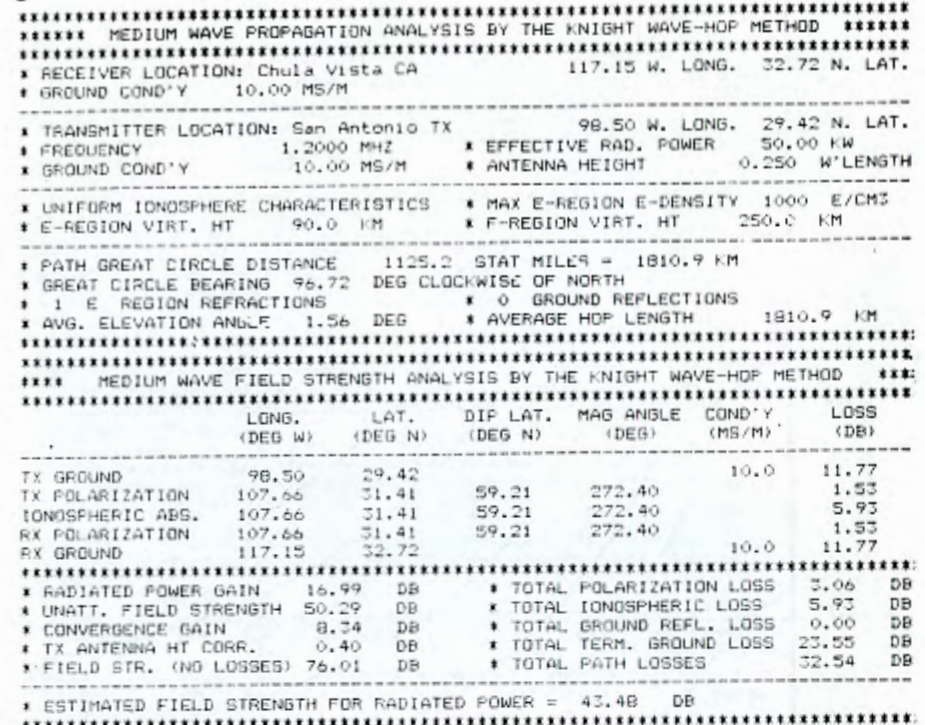


FIGURE 2. MEDIUM WAVE FIELD STRENGTH ANALYSIS - WOAI-1200 KHZ TO CHULA VISTA, ONE-HOP PATH.

Broadcast for a Year

Akwesasne Radio Station Awaits New Operator

Editor's Note: This is the first in a six-part series on Native Americans of New York State prepared by the Associated Press.

ROOSEVELT TOWN (AP)— Given the affinity that Indians feel for the world of spirits, it was probably appropriate that a "ghost" radio station operated for a year in this St. Regis Reservation community.

Operating without a federal license — or red tape — 26-year-old Ray Cook had things his own way.

He and his all-volunteer staff changed formats and air times at will, playing anything from "the blues to Beethoven" over a transmitter off the Empire State Building by way of South America and Tennessee. But they were serious about the venture, viewing it as the potential forerunner of a major, tribal-owned broadcasting complex overlooking the St. Lawrence River.

"We had a potential audience of 55,000," he said. "I wanted to get an FCC (Federal Communications Commission) license to cover our butts, but a couple of the chiefs just told me, 'No, just go through the council.'"

The Mohawk broadcaster said federal reaction to the signal didn't interest him as much as complaints from stations in nearby Massena that he was cutting into the market.

"I wrote a letter to the editor of the local weekly the following week and put in there that it was basically an educational station," he said.

Cook eventually went away to college, but the equipment remains on the reservation for another entrepreneur. With \$50,000, he said, he could start his own television station, using video equipment acquired with government grants.

"All we'd need is the disc, transponders and an amplifier to send the signal over cable," he said.

He named his tiny, 20-watt operation "Akwesasne Freedom Radio," giving it the Mohawk name for the St. Regis area. But others called it WREZ, humorously christening it with letters — "REZ" — which sound out the Indian short name for "reservation."

Indians in other parts of the nation have operations like that envisioned by Cook — a 100,000-watt station run by the Lac Courte Oreilles tribe of Wisconsin is one of the largest — and Canada has more than 50 tribal stations.

Cook said the Canadian government is generous in funding such operations, requiring in turn that 10 percent of the air time be devoted to government-related programming.

By contrast, Cook's studio was in the back of his house.

He said he and friends rebuilt most of the equipment, including a transmitter which once crowned the Empire State Building. They

amassed about 250 record albums by asking for donations from private collections.

Cook acquired the transmitter, and the training to run a station, at The Farm, a 1,700-acre cooperative in Tennessee which sponsors self-help projects for indigenous peoples.

In its heyday from June 1982 until last summer, WREZ offered music, talk in both English and Mohawk and a breezy, insouciant place for young Indians to study the communications media and to lay plans.

"I generally went in about 6 p.m., and we were supposed to work until 10, but some of us were known to stay on until 2 or 3 a.m.," said Dan Thompson.

COMMENT FROM KAN CHATTERTON ON THIS STATION ...

NEXT PAGE HR

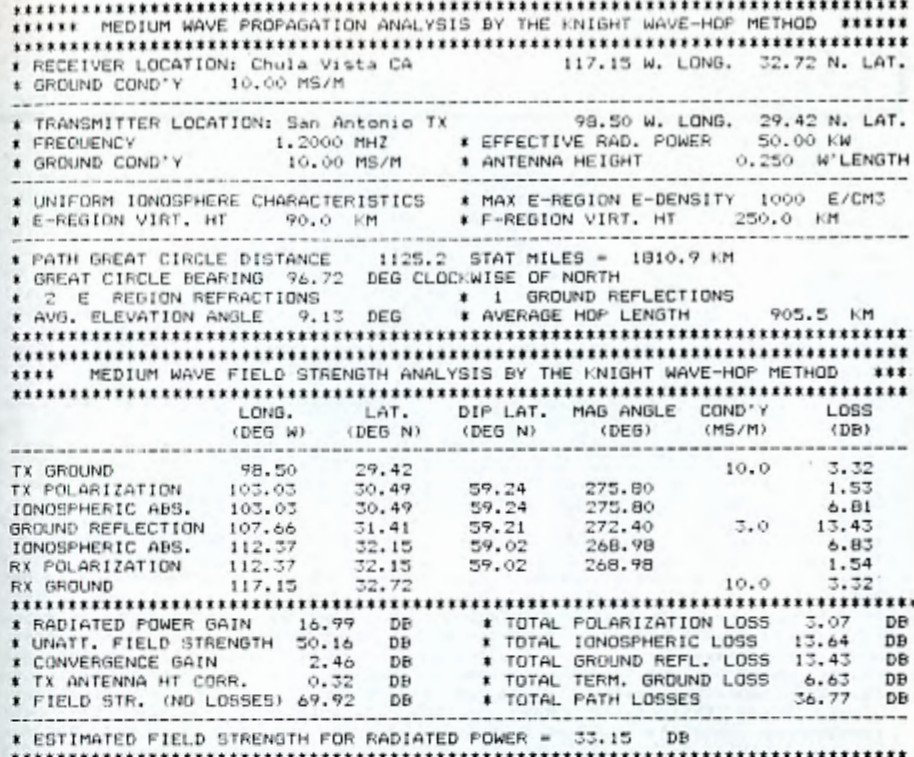


FIGURE 3. MEDIUM WAVE FIELD STRENGTH ANALYSIS - WOAI-1200 KHZ TO CHULA VISTA, TWO HOP PATH.

AKWESASNE RADIO STATION HAS NEW OPERATOR.

Akwesasne (also known as Hogansburg, NY) — "Akwesasne Freedom Radio" is now back on the air operating on both AM and FM. The original operation was FM only, I believe. AM operation is currently on 640 khz and announces as "about 100 watts" of power. Gets out quite well as it has been heard at about 100 miles distance. FM unit not heard here, but was noted in '83 while on the road and was held for nearly 20 miles from Hogansburg so would guess 20 watts about right. Current announcements are for both AM and FM so suspect they simulcast, and give FM as 20 watts on 88.9. All formal IDs use "Akwesasne Freedom Radio" but have noted call letters WREZ used on an informal basis. Can't contact by phone or mail, suspect would have to contact Tribal Council and convince them of good intentions before any direct contact would be possible.



ALL DAY, ALL NIGHT
TEJANO MUSICA
 KEDA
 1540



"I can't make out the signature on this next request but it's for wolves howling in Algonquin Park."

The opinions expressed in this column are those of the individual members, and do not necessarily reflect those of the editors, publishers, or the National Radio Club, Inc., or its subsidiaries. Times are local per Muse.

(AND GREETINGS TO ALL. If you're reading this, all should have gone well in the great transfer of information via telephone from Sun Valley to Cambridge. For the technically-minded, I'm using a COMMODORE 64 as a word processor, the Mirage Word Processing program (better than wordstar, in my opinion, for many reasons), a HESMODEM1 and VIP Terminal software to transmit sequential files; in other words, MUSINGS. The disk drive is an MSD SD-2, and the monitor is an ancient B&W 18-inch. The printer is whatever MIKE decided to use for MUSINGS. I'm stretching deadlines a bit this summer and will announce new ones when I am sure that all the bugs are ironed out of the system. Basically, however, you can count on seeing your information in print about a week sooner than before, making last-minute, fresh information transfer possible now. But don't wait until the last second to get your MUSINGS in the mail ... mail earlier to avoid disappointment later, hi. On with it ...)

RICK E. OVERMANN - 2635 NARRAGANSET DR. - FLORISSANT, MO 63033 (PM 4-25; Rec'd 4-28) Greetings fellow NRC'ers! Well, it is only going to be until June that I will remain a Missouri resident. I'm going in the Air Force and will be in good ole San Antonio, NOT looking forward to the heat, hi! Anyway, in the DX department I do have something to share with you all. I finally received my HOT ROD, and it DOES work! I played around with it at night at my QTH and it seemed (rather, did!) cut through local KUSA slop for a nice signal on WIND, looped SE-NW! So I think I have got the answer to good DX if I get to Anchorage! I'm hoping to get up there to check out all of the TP'S and Asiatics that are most likely to come in up there! I had to write to GERRY THOMAS to get one more of the adhesive platforms and ties so I can mount the HOT ROD on the back of my SUPERADIO II. Anyway, to BRIAN VERNON, if you are reading DX NEWS (shame on you if you don't, hi!!) expect another letter from me pretty soon with some more excellent questions for ya! Nothing as far as new catches here on the radio but maybe the HOT ROD will change that, hi! I hope the HOT ROD is capable of dormitory DX'ing in the Air Force especially after having read LYNN GILLIS' NUSE in the 4-2 DX NUTS, I mean NEWS, hi!! Which reminds me, that funny first half had me rolling in the aisles, hi!! But don't do it again! You might give the FCC some more fouled-up ideas they HAVEN'T thought up ... YET, hi!!! It's bad enough, hearing via RICH EDDIE, what they're doing according to BROADCAST MAGAZINE, hi! Anyway, I think I'll draw this NUSE to a close and try doing some DX'ing with the HOT ROD and see what I get. 73'S.

RADIO ROUND-UP

PETE KEMP - BETHEL, CT (PM 4-22; Rec'd 4-24)

WHIO in Dayton is now part of the NBC Talknet, distributed via Satellite nightly ... WSLR in Akron has dropped its 10:00 PM religious program, sponsored by the Furnace Street Mission, after 57 years. The program has moved over to WHLO ... International types note that the two biggest private radio networks in Spain are considering a merger. ANTENA 3 and RADIO 80 might get it together, if the financial wheeler-dealers can get the package in place ... Steve Canon has done a quick turn-around. He left WGAR, in Cleveland, for the wilds of KMOX in St. Louis, but after two days on the air doing a talk show, he decided that it wasn't for him, and he returned to WGAR ... In Columbus, WENS has reduced its sportstalk show from 7:00 to Midnight to 6:00 to 9:00 PM ... Steve Brodie and Celeste Friedman have replaced Jack Evans and Dick Zipf as the morning team at WBNS ... Tom Armstrong has been with WBBG-Cleveland for 40 years ... Dick Wallace is the new morning man on WCWA-Toledo ... The University of Toledo has recently signed a contract with WSPD to continue airing all home basketball and football games for the next five years ... The Lebanese Government is planning to get their pirate broadcasters off the air. These stations have been airing pop music and disseminating "safe" route information for motorists in Beirut ... Metromedia has sold KJR-Seattle to Ackerly Communications, owners of the Seattle Supersonics, pending FCC approval ... DJ'S Jeff Gill and Jay Carroll have departed WDLW-Boston ... The USSR and Cyprus have signed an agreement to exchange radio programs ... CFCF, Canada's Oldest radio, celebrates its 65th Anniversary this year: it originally broadcast as XWA in 1919 ... So much for now ...

GERRY THOMAS - POB 2036 - PENSACOLA, FL 32513 (PM 4-24; Rec'd 4-26)

Hello again. It's been a month or two since I've checked in so I thought I'd take a minute ... No super big news around here of late although a couple of things of note have transpired. First of all, I finally decided to take the Novice Amateur Radio license test and I am now KB4JFM. I haven't had much air time yet because I've been busy restoring a GALAXY GT-550 Transceiver I picked up at a local Hamfest. It was the cheapest transceiver I could find at the 'fest (\$50), and getting it back into shape has been a learning

experience (I've never fiddled with transmitters before). Anyway, it seems to be working pretty well right now and recent evenings have been spent pounding the key. I'm going to be in La Jolla, CA for a week or so in May and will be taking the General Exam then ... we'll see how that goes. On the MW front, DX time has been spent on the "TOP END" but it's been frustrating going mainly because I don't know what in the heck I'm hearing, hi. Finally, after breaking my right thumb in two places (basketball), I'm at last caught up on HOT ROD back orders ... Thanks for your patience. That's about it from here. 73'S--GT

CURTIS D. ENGBERG - 80 CONCORD ROAD - WAYLAND, MA 01778 (PM 5-1; Rec'd 5-4)

Not a lot of dx to report, but I had to comment on the lead statement by DAVE SCHMIDT in DXD of the 2 April issue. After spending two hectic days driving in the worst blizzard of the year to get to Mars, PA, let me tell you there is plenty of excitement in it! The roads weren't plowed, there was 28 inches of snow on the ground in northeastern PA, literally hundreds of semis off the roads, I-81 closed to all traffic, and it was a sight for sore eyes when we arrived at Mars with no snow on the ground. I've got to admit there's not much excitement after that, although our trip was to deliver and install a large stained glass creation of my wife's in honor of a former resident of the St. John's Lutheran home in Mars. We did enjoy a good tour of Pittsburgh, though DX-wise, I did get two more good sessions 3-9 and 3-10 at about 11 PM each evening on 1413, both with eastern-style mx and some arabic-type chanting. Sure wish I had a positive ID on that one. At the same hour there was excellent reception of M & F talk on 1215, and a fair signal on 1233. My only other DX was 4-27, when the forecasters said there would be a severe aurora (which didn't show here), and I got my best TA reception of the year on France-1557. 1467 was in well, and I noted very strong hets on 1251 and 1242, not often noted here.

JACK WOODS - 4073 NE MORNING STREET - CORVALLIS, OR 97330:N (PM 5-9; Rec'd 5-11) For a month or two in late 1965 I kept my first MW DX records. No times or dates were recorded - only a list of stations by frequency, ID, and location. AT that time I had no idea of the existence of the NRC or any other MW club and was not aware that many other people were interested in the hobby. I lived in Douglas, Alaska, a town of about 1000 a few miles from Juneau. Douglas is near sea level and is closely surrounded by mountains of up to about 8000 feet. The one open view is down Gastineau Channel - approximately to the south. My receiver was a navy surplus Hammarlund similar to the HQ-140 - still in my possession and still in use. The antenna was an LW hung between two trees in the back yard, about 20 feet off the ground and 50 feet long. My goal was one station on each frequency, and over 100 were logged. Included were three GY's: KWSL-1340, Colorado, and KBKW-1450 and KLOG-1490 in Washington. Others, which have never been logged by me in Oregon were KHOW-630, KIXZ-940, CBW-990, KBLE-1050, KMOX-1120, KFH-1330, KXLF-1370, KENN-1390, and KYOK-1590. West coast reliables such as KFI-640, KIRO-710, KCBS-740, KONO-1000, KING-1090, and KFBK-1530 could be heard most nights. During the 2 or 3 shortest days of the year, "outside" stations could be heard all day although there were several hours of daylight. Hasta La Vista.

THE ADVOCATES MORE BANKRUPTCY

GENE MARTIN - 3303 EAST EVANS AVE. - DENVER, CO 80210 (PM 5-8; REC'D 5-11)

The latest arbitron ratings for the Denver-Boulder market show the top 16 stations have 80 percent of the radio audience above the age of 12. Twenty other stations in the market, candidates for bankruptcy, fight over fragments of audience in the remaining 20 percent. FM dominance is conspicuous. Among these top 16 stations, 10 are FM'S - 6 are AM'S. Add up the audience totals for the FM's, and they account for 54.5 percent of the total numbers; that is, the total 80 percent. Add up the totals for the six AM's, and they account for 25 percent of the 80 percent. Here are the top 16 stations in order: KOSI-FM, KPKE-FM, KOA-AM, KBPI-FM, KYGO-FM, KOAQ-FM, KIMN-AM, KLIR-FM, KLZ-AM, KBKO-FM, KAZY-FM, KHOW-AM, KEZW-AM, KVOD-FM, KPPL-FM, and KNUS-AM. None of these benefits with large numbers. Champion KOSI has a rating of 9.5, a westinghouse station broadcasting pretty music, sometimes called elevator music. Believe I have heard KOSI is the only pretty music station in this country which is no. 1 in its market. (It happens to be my favorite, but what else could you expect from an old timer?) (Class! -pls) No. 3 KOA is a news-talk-sports station, and I only tune to it to hear the CBS News on the hour, then back to KOSI. No. 3 KPKE is a rocker with a 6.8 share of audience. KOA has 6.7. No. 4 KBPI, another rocker, has a 6.0 share; KOAQ, another rocker, has a 5.0 share. KYGO, a country music station, is No. 5 with a 5.1 share. KNUS, No. 16 at the bottom of the list, enjoys a rating of 2.3. If you want to call that a rating. When the numbers get down that small, doesn't anybody care? And what is warding off bankruptcy? And you have to wonder: How is it possible for some AM stations to sell to new owners for sums in the millions? When I first got interested in radio back in the 1920's, the U. S. had a total of maybe 575 stations. The way things are going we may soon

have that many on some of the local frequencies. (Gene, KBIG-104.3 stays close to the top of the ratings race in LA with BFL, too. They use live DJ'S, freeway reports, frequent news, and many original BFL hits instead of cover versions. And a useless historical note ... KOA was the first radio station I ever visited, in 1952 when I was seven and visiting relatives. I remember being in a large studio where the host was seated next to a grand piano, talking to someone. It was a morning program, and if I remember correctly, he punctuated his remarks with chords on the piano. anyone remember who 'twas? -pls)
c j

*NEW ENGLAND EXPEDITION TO COLORADO

BRUCE A. CONTI - 39 BAYBERRY DRIVE - WEST WARWICK, RI 02893 (PM 5-8; Rec'd 5-11) I'm planning driving to Colorado Springs for the 1984 NRC CONVENTION. Departure from RI, will be on Tuesday morning, 8-28, with overnight stops in Pennsylvania, Indiana, and in the Kansas City area, arriving in Colorado on Friday, via I-84 through CT and NY, to Route 209 (HO-CHI-MIN TRAIL), to I-78, and on to I-70 (the road to Colorado). Possible tourist attractions to visit along the way are 3-mile island (wrong NRC, hi), MWVA-1170 WV, The Gateway Arch and Anheuser-Busch, along with whatever else comes up along the way, plus the usual NRC-type activities - radio listening, Beverages, photographing antenna sites, etc. If any fellow NRC'ers in New England or along the route would like to join the expedition, contact me asap to secure plans. I can comfortably fit 2 others besides myself with luggage in my car (a 1984 T-Bird with air), but if more are interested, maybe an NRC convoy can be arranged. Or, maybe the NRC World Trade Center will let us borrow the HQ Jet Plane. (Which one would you like to use - HQ) Scheduling for the route back to New England will remain open, depending on how much vacation time remains for expedition members after the CONVENTION. 73'S.

B. G. "BILL" SMITH - RT. 1, BOX 33 - HERRIN, IL 62948 (PM 5-8; Rec'd 5-14)
Hello again from south IL. I just completed a great DX year, adding 3 new states, to bring my total to 38. The new states added were Montana, New Mexico, and Wyoming. The stations are KGHL-Billings on 1-19-84; KOB-Albuquerque on 2-5-84, and KTWO-Casper on 3-9-84. They all had one thing in common: I received them on cold, crisp, and clear nights. My total received now stands at 750 American and 22 Canadian. My DX'ing this past season was all done on a GE SUPERADIO, No. 7-2880. I have found this an excellent low-priced receiver to use. I bought nine brand new at a local discount store for just under \$50.00. So just about everybody should be able to afford our hobby. here, in the heartland of America, is an ideal location for national radio receptions, as I have picked up such diverse areas as WPTX-Albany, NY, to KNBR-San Francisco, CA, and KPNW-Fargo, ND, to WINZ-Miami, FL. I have had especially good luck with 5,000-watt stations at sundown and sun-up from all over most of the contiguous 48. Incidentally, the states I have not been able to DX are Maine, New Hampshire, Vermont, Rhode Island, and Delaware in the east, and Washington, Oregon, Idaho, Nevada, and Arizona in the west. I think that you people running the NRC are doing a fantastic job, and the least we members out here can do is to contribute a couple of musings a year. (You bet - The NRC Editors couldn't do it without members like you, Bill! -pls)

GREG LEDBETTER - BOX 953 - PURVIS, MS 39475 (PM 5-12; Rec'd 5-15)
Greetings from south Mississippi. All has been quiet on the DX front as the hobby sat on a back burner for a time. Some developments: WNOE-1060, New Orleans (the USFL breakers flag sta), has NBC Talknet, 8-11 PM (ELT), picking it up from the former WGS0-1280. Also in New Orleans, there is some talk of WTIX-690, WFLD-940, and WWIN-1450 broadcasting in stereo sometime soon. /// As my fourth year in NRC has begun, I see 1046 stations received, but just two veries (out of four tries - WWAX and KWED are SILENT still). Total states: 45, lack Alaska, Hawaii, Delaware, Maine, and New Jersey (Delaware has been received on FM though). Farthest point(s) received from Purvis/Hattiesburg area: Keene, NH, and Polson, MT (Coeur d'Alene is FM extreme). For those of you logging MS Stns, Congratulations. Hope if you're requesting Veries you have luck. I see some close to home that I might as well forget since they don't appear to answer anybody else's requests - WTIX-690 and WSJC-810, both within 100 miles of here. On the awaiting list is still KWED-1580, with details of signoff on 12-17-83 (the night before the KBYE Test), sent to Seguin around 12-20-83. Are they a non-verifier? I've heard them twice o/KLOU since then, but have paid then no mind. /// All you guys with some of your memories of days gone by, move aside a minute. 10-20-77, WTIX called on the campus on Pearl River Junior College, Poplarville, MS, and I happened to answer the telephone. The guy on the other end did not give his name, but he asked me what my favorite radio sta was. I lied to him and said "WTIX". He told me I had won 100 grand. We got to talking and I asked him to say it again. One week later a different personality (who gave his name) wanted to verify address and all that. 6 1/2 years later, no money. Everybody said it was a setup. I said no, because I know the voices of a lot of DJ's,

*including those at 'TIX. (Never trust a DJ. Never, Never -pls) /// Other memories include Bob Ruby's Blooper on 2-7-74 on WWL, when he said something else instead of "Fitzgerald" (the next guy up); also remember the days of Eric Tracy there; Yvonne Daniels on WLS as the first female DJ I had ever heard; WNOE ID's with a Frank Sinatra twist ("19-- was a very good year"); KAAV's "Bleeker Street"; WHYS ceasing simulcast of morning drive; WRBC-1300, Jackson (when it was), KXYZ-1320 playing the pop format in mid-70's; comedy on WSMB-1350 in afternoon drive; WFOR's talk format, as well as the pop format; WLAC's rock format; WERC's rock format; "Tooth Fairy" and "Chicken Man"; also, remember when Garner Ted Armstrong had the "World Tomorrow" program. /// Was looking at the King Edward Cigar Comments coming from WWL. That has been around for ages, generally as a time signal. The announcer would say "King Ed Cigar Time is _____. Time to light (particular type of cigar)." Yep, I can vaguely remember some of the musical programming that they did have. Now from 6 AM-8:30 OR 9 PM (ELT) it's strictly news-oriented, with religion till 12 Midnight. f/by country mx till 6 AM. Other memories next time. 73.

DAVID J. SULLIVAN - 138-15 FRANKLIN AVENUE - FLUSHING, NY 11355:N (PM 5-15; Rec'd 5-18) Greetings! I am just getting back into DX'ing after having been away from the hobby for the last 8 years as I went to college and got married in my career. (My, how time flies!) I am now 26 years old, married, and work as a systems programmer for New York University. I am also a HAM; my call is WA1TMS and I can be found on some of the NYC 2-Meter Repeaters. I previously DX'ed from CT, which explains my one call. Conditions here are much noisier, and there are too many local stations, which I guess is what everyone everywhere says. Though this put me off for awhile, I bit the bullet and started DX'ing again in April. Among the first stations heard were "Radio Relay" WKAQ-580 and "Radio Rumbos" YVLL-670. I guess conditions were good just to egg me on! So far, I have heard 149 stations, but I haven't started to try and get qsl's yet. I currently use a SONY ICF-2001 connected to a fire escape. (! -pls) By the time you read this I hope to have an ICOM R71A. I hope to build the FET ALTAZIMUTH LOOP, but since I am all thumbs I would prefer to buy a kit, or an assembled one. If you know where I can buy one, please contact me! Also, I have been trying to track down a nice formula for sunrise and sunset, since I could then make my own tables. I noticed RON SCHATZ' Basic Program in the NEW MEMBER BOOKLET, but I'd like to get the formula behind it. By the way, Ron, is LINE 105 supposed to be "GOTO 135" rather than "GOTO 125"? It seems that the program will do the "DECISION FOR SEPTEMBER" for every month other than March otherwise. Since I spend most of my day in front of a terminal, I keep my logs on one of our computers. I can sort the log quickly by frequency, call, location, or time (it is sorted by date to start with!), and automatically generate nice lists. This sure makes life much easier. Much thanks for "THE COMPLEAT DX'ER" Article in the NEW MEMBER BOOKLET, for it has given me many good ideas for my logging programs. That's all for now. You'll be hearing from me again soon.

TONY FITZHERBERT - 356 JACKMAN AVENUE - FAIRFIELD, CT 06432 (PM 5-15; Rec'd MAY 18) Well, the end of another season is upon us. I hope that all had better luck with veries than did I, although I did enjoy a fine finish. I want to thank the columnists for all of the contributions to FORMATS and the PROFILES Column. Keep them rolling in this summer for the fall. We did get to Washington for a few days over the kids' April recess - and I did see the WADC-1260 site in Silver Spring - 3 towers, plus a big one for FM, and the WTOP-1500 array in Wheaton - 3 towers right off Georgia Avenue. Only other radio observations were after a trip over the Baltimore METRO, when I had a couple of hours before I picked up my wife at her girlfriend's house. I found and photographed WCAO-600 right off I-695. Studios and four huge towers are all together. Then out to WCRB-680 whose studio and their four-tower array is located in a marsh in Owins Mills, off Music Fair Road, in an industrial park - when I have more time, I will return to both for station profiles. Then over to Winads Road, in Randallstown to photograph the three towers of WBAL in the middle of a housing development - certainly not the DX'ers paradise - hi!! Last stop was off Clay's Lane - a dirt road out on an old farm in Hobbaville - where out of the cow pasture sprouts four at least 600-foot high towers in trapezoidal array, about 100 feet apart - for WFBZ-1300 - Tallest towers I've seen for a 5 kw station. Veries - A flurry at the close of the season: WSKE-1040, a v/q; WOZO-850, v/1 and BS; WSIG-790, very cordial v/1; WDMG-860, v/q; WXGI-950; My report, noted; CJSB-540, a v/1; WCNS-1480, a friendly v/1; WHTG-1410, a CM, with note, plus BS; WTKO, v/1, BS; WVCH, nice v/1 plus BS; WNSY-1310, v/1, BS, plus returned my postage; WRDO-1400, v/1 plus BS and my postage returned; WPCR-1540, v/1 for the call change; WIDE-1400, v/1; and WEEU-850, v/1 and CM. Next trip will probably be my annual railroad trip to Chicago - only radio might be tracing down the rooftop sites of the 1240's and the 1450's - which happen to be along the right-of-way of the friendly rails of the CTA, hi. All for now - keep the PROFILES and FORMATS rolling in!! And Thanks for the great MUSING Column, Paul! 73's. (You're Welcome! But it's youse guys what make it great! -pls)

ERNEST COOPER - 5 ANTHONY STREET - PROVINCETOWN, MA 02657 (PM 5-19; Rec'd 5-22) EDT used. After a 66-day hiatus from DX'ing, I resumed tuning the kilocycles again on Friday AM May 4. I am happy to say I am feeling much, much better now, something like my old self again, but minus the angina pains and shortness of breath, thanks to the modern miracle of by-pass surgery! Thanks to those who have called in recent weeks: STAN MORSS, ERNIE WESOLOWSKI, BILL WURTZEL, FRANK MERRILL, ROLLAND LINDBLADE, JOE FELLA, PAUL MOUNT, PHIL BYTHEWAY, AND JAY SHILKSTEIN. I'm up again many mornings from about 1 to 2:30 AM or so, so if you hear anything "hot" I'd appreciate a call during those hours. MM 5-4: My first day back found a new AN'er on 1460, WWCN-NY, with CNN NX - They're also on the METS' Network, fed from flagship WHN-1050. No sign this AM of usual dominant WCMB, but my hope that they had quit AN'ing was only wishful thinking - they were there again on my next session, MM 5-7. Who's the SS on 1590, noted here at 1:09-1:36 AM in the background; could it be WOXN? It did not sound like a Latin American station. Speaking of 1590, WASY-ME and I think also WSMN-NH have quit AN'ing! I now hear WETT-MD and old friend WAKR-OH there now, the latter carrying LARRY KING. MM 5-7: I looked for WBUC-1460 Test A - La FLASH ALERT Card Notification: No sign between 12 and 1 AM, but I caught 'em with OC and announcements at 1:17-1:33 and sent a report. A nice v/l was received from the same gent who verified WBUC for me 22 years ago - always nice to renew old acquaintances! WJR-760 was on TT, WSB-750 was off, so was EEI-590, leaving VOXM in the clear. WBAL-1090 and WTTP-1060 were also silent. Tues. 5-8: Somebody with ABC Nx at 1:05 end; sounded like WAMY or similar; WASY is NBC. There's a Venezuelan hounding WCKY-1530 some AN's, not ID'ed yet. Thur. 5-10: Somebody "In Columbus" with what sounded like RS, but with occasional cutoffs of selections and bits of TT, calls sounded like WHEF or WHES - A tentative sent to ex-WCLS to see if this is they. Sun 5-13: Extremely weak all-talker on 1610 around 1:56-1:58, when it faded out and did not return. I can't peak my SM-2 on this frequency - it conks out at 1570, in fact, so I can't get a build-up of this signal. MM 5-14: Report to WSKQ-620, ex-WVNJ, now an SS broadcaster with MOR-type mx. Wed. 5-16: An OC with occasional TT's on 1590 today and several mornings, atop the frequency, but never do they speak a word. They say silence is golden, but I don't buy that! I doubt I'll make our CONVENTION, but I plan on the WFTDA's in Jamestown, NY and IRCA's in "FRANK MERRILL-LAND." FORWARD - MARCH! P.S.: MUSINGS looked great last week - like old times! (Might have looked "greater" if I had used a fresher ribbon. Oh, well ... pls)

MARSHALL CUBITT - 5 STRATHCONA ST. - SMITHS FALLS, ON CANADA K7A 1V6 (PM 5-19; Rec'd 5-22) Here are more loggings. This list will bring my total loggings up to 195. 3-9: CFOR-1570 ON; 3-10 WFBK-1300 MD; 3-11: WPXN-1280 NY; 3-12: CKPC-1380 ON, WHID-1340 NJ, WSB-750 GA, CKPC-1380 was heard mixing with an old logging, CKLG-ON. 3-15: CHSC-1220 ON, WWCN-1460 NY; 3-16: WTSN-1270 NH; 3-17: WRR0-1440 OH; 3-18 WANKR-(?) -pls) WV; 3-20: CHNR-1600; 3-22: CKAN-1480 ON; 3-27: WELP-1600 AL, WLQV-1550 MI; 4-(?) -pls) WHOT-1330 OH; 4-16: CJBC-860 ON; 5-5: WHDH-850 MA, CKKW-1090 ON, WENC-1220 NC, CHWO-1250 ON. Well, that's my new loggings for the past 9 weeks. I hope to hit the magic 200 loggings before my summer holidays in Central New York, if not before. I will go over 200 at that time for sure. 73 and good DX'ing to all. (Thanks, MARSHALL, but please next time include specific times and program details to be of use to other DX'ers. Actually, you should consider sending all loggings to DDXD and not MUSINGS, especially when current. -pls)

RADIO ROUND-UP

PETE KEMP - BETHEL, CT (PM 5-21; 5-23)
Greetings All ... KMDY-850, in southern California, has adopted a comedy format, from 5:30 AM to 12:00, Midnight ... GORDON SINCLAIR, The Famous Canadian Newsmen who received much notice after his public embrace of America during the early '70's has died ... WHDH in Boston has cut its news staff by 6 members in a budget-cutting move ... WEAT, in West Palm Beach, has changed its format from News to Adult Contemporary, and its call letters to WCGY. The station also will be increasing its power from 1,000 to 5,000 watts on June 1 ... Columbus, OH DJ Kent Jones-WTVN created a bit of a stir when he entered, and won, a prize on a rival radio station ... In Chicago, the Birch Radio Reports Show a big drop in AM radio listening, from 41% to 35% in one year ... from the where-are-they-now-department, Ron Lundy, for 17 years a top DJ on WABC, before their big format switch a while back, is now doing the 9-to-Noon shift on WCBS-FM. He was to be one of the DJ's on the ill-fated LARRY KING Show on Saturday nights ... Jack Elliot is the new morning man on WWSW ... Ron Gibson, a ten-year vet of WGR, has found a new home on WLVL in Lockport ... WDBO, in Orlando, has dropped its sentinel on air program, due to scheduling problems with the local newspaper ... Charles Osgood (I love his off-beat news/life observations) has expanded his duties at CBS, taking on the early news chores, 6:30-7:00 AM Eastern Local Time, on TV. He will continue his radio work ... KCCI-AM in Kansas City has been sold and will change its calls to KCXL-AM ... Sources in the United Kingdom say that the legalization of

low-power AM broadcasters in the offing, maybe within a year. This action is in agreement with their policy of opening up the airwaves, allowing greater competition and programming variety ... WOLS-AM, in Florence, SC, has become an NBC Affiliate ... so much for now; have a nice summer.

G. HARLEY DELEURERE - P.O. BOX 10 - HENDRICKS, WV 26271 (PM 5-21; Rec'd 5-24)
It has been quite awhile since I last wrote. To be honest, I've been mighty busy. My work has become progressively worse. Every week now we're working six days, and it's always twelve hours per day. It's rough, and I can't take much more of it. My four children hardly know me. DX'ing has been hurt too. I've heard a few goodies including HTA-750. I reckon, though, that I'll not hear from it verivise because of the strained relations between our countries. I did though manage to receive a QSL from Radio Paradise of Saint Kitts. Saint Kitts represents the seventieth country from which I have confirmed stations. (A very nice record, HARLEY, CONGRATS! -pls) Saturday I received a nice verie from WTRI-1520, Brunswick, MD. It was broadcasting at the time I heard it with only 250 watts. Fifteen years ago I was supposed to have gone to Brunswick to go to work, but I felt it was too far away from this part of West Virginia; therefore, I declined the offer. Oh, I forgot to mention that I did receive a verie from WZTQ before it changed its call letters. Supposedly it's now WVKV. Too WVAL confirmed with a patch. It reads, "WVAL-610". Well, that's it.

STEVE FRANCIS - 1620 LODGE STREET - ALCOA, TN 37701 (PM 5-21; Rec'd 5-25)
In response to my 4-2 MUSE requesting the identities of the stations holding the north, south, east, and west records in the continental U. S., JERRY STARR kindly sent me the transmitter coordinates of all the stations I mentioned, which he got from a computer service called DATAWORLD. Thanks again, JERRY! The "Final Four" are, North: KARI-550 Blaine, WA (48 Degrees, 57 Minutes, 15 Seconds). South: WKIZ-1500 Key West, FL (24-34-01). East: WQDY-1230 Calais, ME (67-15-59). West: KVAC-1490 Forks, WA (124-23-20). Throwing in AK and HI, North becomes KBRW-680 Barrow, South KKON-790 Kealakekua, and West KUAL-720 Eleele. So now we know! /// On the DX front, 3-17 brought much-wanted WOKB-1600 FL, good at times 7:24-7:33 PM EST with many call ID'S. Tina Turner mx, and promo for a bread dance contest in Apopka. Excepting Puerto Rico's WLUZ, they were my last unheard W-Call fulltime on 1600. 4-6: WIXR-1500 SC fair o/WTOP 5:45 with partial-data taped s/on read o/violin mx: the guy said, "Thanks for joining us so early!". With WWNE zapped by an evening AU, the new KLLL-1100 MO was in fairly well at 7:38 PM with lost dog items, ID, and religious mx. 4-18: The cord on the TRF developed a short, and I'm glad it did: after installing batteries, I discovered that splattery local WIMZ-1240 can be totally nulled at night. They've been NSP for nearly five years, so it's like having 1240 back from the grave(yard), hi. Great hearing Charlotte, Melbourne, Roanoke, Sody-Daisy, etc. Again after so many years. Semi-local WKCE-1230 TN was hard for the first time that afternoon with Braves Baseball and local spots. They'd replaced WBHN-1590 as my closest unheard since hitting the air last summer with only 250 w days; 1 Kw CP is surely on. MM 4-23 dropped off newies from Florence and Lawrence! WOLS-1230 SC fair ending AP Nx at 12:05, followed by "Florence Country weather" and s/off-SSB: 1230 #40 and SC #100 here. 1:07, KFKU-1250 KS good at tune-in with drumroll and clear "This is KFKU, Lawrence" ID by woman, followed immediately by a WREN Contest promo. This is a few minutes after the time the log says KFKU should have been off, and it seems an abrupt transition from KFKU to WREN; still, I've got that loud ID on tape so am counting it. 4-26: Another of my nearest unheards, WPNF-1240 NC, fair at 12:01 s/off for AM and "Cable FM"; plugged "The Informative 1240" a couple of times. Local WRJZ-620 went dark at 4 PM 4-28 - Bankrupt. They kept a tight, enthusiastic professional sound right up to the end (although they had hardly any spots), with none of the slow decline into poverty row production values - Satellite programs, Tyro announcers, dead air, etc. - evident now on many of yesteryear's AM giants, SM 5-6: WTCJ-1230 in good with tail-end of 1:01 EDT s/off, 5-8: WKDK-1240 SC poor/fair in the "battery null" with 11:30 s/off for 1240 #40. MM 5-14: CMKU-1130 loud (somehow I can't bring myself to describe a CM as "XLNT") (?? -pls) o/KWKH 2:30 with R. Angulo ID and overmodulated audio, // 1110 and 1120. Nearly all Cuban networks seem to be 24hr now; hope it's only a stage they're going through. 5-22: WVSF-1400 GA briefly good 2:05 AM with Call ID and "Talk radio" plug. /// WHO, other than NIGHTTIME AMERICA and the STAR STATION, supplies CHR via Satellite? I'm hearing it before and after midnight on WCSC-1390, KLOU-1580, and WJSO-1590 - Segued mx, a heavy dose of AC Oldies, no indication it's a net other than the partial time checks, and frequent human interest/trivia inserts. Best of DX this summer! (STEVE, KFKU is not a separate station from WREN as are WIBW/KSAC-580; University of Kansas students who work at KANU, the University FM'er, prepare tapes which are mailed to WREN and played. Either the tape ran long or it was started late to cause it to run over. I believe that KFKU at one, time actually was at least a separate facility, possibly in the days when WREN was located at Lawrence, rather than Topeka -pls)

BOB SNOLAREK - RD#1, BOX 63 - WHITEHOUSE STATION, NJ 08889 (PM 5-22; Rec'd 5-25) All of the DX'ers in the New York Metro area have a NW pest to contend with, "Super KAH-KOO" WSKQ-620 Newark. It is the former WYVJ, and it programs in Spanish. The problem is that the new owners have turned the modulation way up, and this, combined with their directional antenna creates unbelievable splash on adjacent channels. Here WIP-610 takes a beating with a constant "Rat-Tat-Tat" noise from "KAH-KOO", even when they play a quiet record. WICC-600 is affected, and WEJL-630 is unlistenable. I wonder if WIP is concerned about having their coverage area severely cut by "The New Jersey Noisebox"? To top it all off, WSKQ is NSP; WYVJ used to go off at midnight on Monday morning. Jack Ellery, who was at local WCTC-1450 for over 20 years, is now a talk-show host on WIP from 8 TO 9 PM. WIP now carries LARRY KING, instead of WCAU. On May 21 WNTR-1250 began nighttime broadcasting. WTAE still dominates the channel and MTR does not cause much of a problem. PAUL MOUNT and I were talking to the GM of WNTR at the WDMA-FM open house on 5-12, and he said the nighttime authorization was much more complicated than they thought it would be when it was granted to them in 1981. On 5-19 PAUL and I hit the road again to WNLK/WLYQ-FM in Norwalk, CT to watch the DJ's and talk radio. Get this! WNLK-1350 signs off at midnight! There still are a few left!

VERIFICATION HIGHLIGHTS (AND A VISITOR FROM WAY UNDER)

JOHN R. MALICKY - 995 SHADYCREST ROAD - PITTSBURGH, PA 15216 (PM 5-23; Rec'd May 26) Hello, everyone! So much to say, so here goes. On April 13, I had the great pleasure (although unexpectedly) of hearing from and seeing LAURIE BOYER of INVERCARGILL, NZ! (See Front Page, 2nd paragraph of ISSUE 19 and GREG HARDISON's MUSE on pg. 45, ISSUE 25). LAURIE (pronounced "Larry") was calling from the PGH. MARRIOTT and asked if I could visit him. When I went over, he had a SONY ICF-6800 receiver and PALOMAR LOOP. He told me this was his "DX" vacation, spending a month in the U.S., going each day from chosen cities to DX and send out as many reports to local stations, including these here. LAURIE was enjoying this thoroughly. On Saturday morning the 14th, I drove him to the bus terminal where he was off to Columbus as I forced (hi!) upon him some stuff about PGH. LAURIE is going to rejoin the NRC after belonging for a time in the '50's, has DX'ed over 30 years, verified over 2,100 stations worldwide and over 1,100 in the U.S. His contact in the NRC and friend, also from Invercargill, is ERIC MCINTOSH. So Thanx LAURIE for coming to PGH, and calling on me. I hope you had a safe trip home and we'll look forward to seeing you in the NRC and DX NEWS! ... On to veries. First, "Thank You's" go to WILLIAM PRATER, HOWARD KEMP, and especially KEN CHATTERTON as the first two gentlemen gave me names. Ken offered his services to personally drop off reports (while visiting friends) even to my favorite stamp eater, WINR-680. Ken was also in a car accident, and I hope you are feeling better. From the present, going backwards, today a v/l and "Fantastic plastic" card from 13-Rock WHAR-1340 Clarksburg, WV as the PD enjoyed the "Guide To DX" I sent him; 5-22, 3 of 4 letters to the Caribbean mailed in January are in with RJR-Jamaica 720 as they were "Pleased to receive such a detailed report", with a long QSL card. Brochure of the history of RJR, and returned my IRC because "it was not needed"! Also, in 6 days a v/l for an emergency broadcast on 5-8 from WNRG-940 Grundy, VA from none other than the bookkeeper! (who included a felt tip pen, too!) On 5-16, two months after it was mailed, a v/l and B/S from WEBB-1360 Baltimore "regarding my super QSL" as it was "impressive" and "Thank you for waiting". Don't worry, I have a lot of time to wait - hi. On 5-12, WNVN-1380 Naugatuck, CT varied by, get this, writing on my report. "This report is confirmed!!!" And initialing it, which I couldn't understand; Well, I say, "Thank you much!" I can see he spent some time with my report! Perhaps, the most interesting veries in all of my DX'ing started on March 30 when I heard 2 stations on 1520, but not the call or the ID. Assuming correctly, I sent reports to and received v/letters from WDSL-Mocksville, NC on 5-12 and WGMA-Spindale, NC earlier on 4-19! It was signed by the President (That it, the President of WGMA - hi!) Who wrote that I was probably getting "Double reception", but at the time I wasn't sure. This was at 6:45 AM as WSDL faded in with two ads, then out, and in came WGMA, four minutes later. Even though my loggings were very short and correctable, they both verified; how nice! There are still some good people left at stations. Also, only because WGMA told me I was getting WDSL (Because I held off mailing his letter) did I try for WDSL, too. On 5-10, an earlier xlt catch of WBET-1460 Brockton, MA netted a v/l and 13 sheets of programming about the station from the announcer, Jim Larkin, who I heard and called at 8 PM (4-15 Sunday) for an Irish folk mx hour. Two packages, one on 4-28, and perhaps the nicest verie this year from WHYL-960 Carlisle, PA with a v/l, much info, and a calendar inside a sleek nice white folder, all because I asked how their ratings (they're CW) stacked up against C&W WCBM-1460 Harrisburg who is nearby. On 4-23 Ray Goss (who also does Duquesne Dukes Basketball) sent a letter and information including a little magazine which I used for a STATION PROFILE in DX NEWS on WR10-1520 Homer City, PA. (NOTE: WGMA sent a music awards program which had their story in it appearing last issue). On 4-18, Thanx to NRC'er AL RESNICK (CE), WLS varied

with a special certificate from their 12-19-83 salute to the NRC and noted my report was their third to arrive. (There's a copy of one, mine, in this issue John, AL and the whole WLS crew did a fine job on those certificates and the program - Mike) Prompt and unprompt; in 4 days on 4-13, WPEN-950 Philadelphia in with a v/f and CM, while on 4-11, WNDR-1260 Syracuse signed their copy of my report and included a CM, mailed 5 1/2 months ago! On 4-9, WILK-980 Wilkes-Barre, PA sent a nice blue folder with a v/f and information on "The Hit Music Authority". On 3-29, even with the wrong address for a test by ex-WYSE, WKIQ-1560 Inverness, FL varied mentioning change of ownership and a new Harris transmitter. On 3-15 WGSN-740 Huntington, NY (Long Island) varied with a letter and 20" x 12" CM. And finally for 1050 and 1040, WSKE-Everette, PA by way of the owner's wife, Sandra King, admitted they were slow in answering reports, but varied and even sent two v/q and a wooden nickel! Non-veries coming in since ISSUE 24: WTAB-1390, WSEM-1500, WFLR-1570, WNDR-1260, WCCP-1560, and KCCV-1510. Totals: 587 ... of DX, my first New Hampshire on 4-15! WFEA-1370 Manchester at 12:30 AM with Adcon Oldies and ABC Nx as I was very excited to hear this one. Totals heard: 1,102. If anyone is driving to C. SPRINGS, Please let me know although I am not sure if I'm going, and/or by bus-plane. Your typing is better, but is still too small, Paul - hi! (How's this? - hi! -pls) 73's to all!

THE 1983 CONVENTION

JAY SMILKSTEIN - 105 MANCHESTER DRIVE - MT. KISCO, NY 10549 (PM 5-23; Rec'd 5-26) (914) 666-6811 Hello, that prestigious-looking blue car with New York license plate 602-SMA that I drove up to the CONVENTION in is my mother's "former acting village justice of Mt. Kisco." It is highly unlikely for a guy 22 (turning 23 this past January) to be a judge or a former judge. SMA, like DPL and MD, is a special license plate available only to members of the state magistrate's association. I went to the Beverage site on Sunday night with my Motorola 6-tube car radio model 403 (not modified). I was not impressed by the antennas being somewhat directional, though one favored the south, the other the west, but the signal levels were fantastic, even the two weak Spanish stations on 860 kilocycles completely covered the vibrator static; using a 6-volt storage battery, I didn't have a problem with power line noise. The Harley is one of the few hotels to have color tv instead of black and white, definitely not something to complain about, and the color tv has an am/fm radio built in, a nice surprise. I called the State Police about the eastbound Interstate 84 bridge swaying too much (I was not drinking) only 2 months after 2 people were killed when the Interstate 95 bridge over the Mianus River in Stamford also in Connecticut collapsed after local residents complained about funny noises and the bridge swaying. I opened the window (after turning off the air conditioner) to get some fresh air, and since the Harley Hotel doesn't have screens on the windows I came home with mosquito bites just like my other camping trips. But it was fun in spite of the mosquitoes. 73's.

(PM 5-26;

GUY KUDLEMYER - EUGENE, OR 97402:N (PM 5-16; REC'D 5-18)

ALONA, Fellow Musers. I recently returned from a week's Hawaiian vacation and have pretty much hit the summer doldrums, DX-wise. I got together with some of my old Honolulu buddies and even had a chance to meet some new friends: fellow NRC'er BOB HLIVAK and his lovely wife, JOYCE. We got together at the upstart CROW & Co., Honolulu's finest combination bookstore/pub/restaurant. We had a real nice visit, and anyone headed out Honolulu way would do himself a favor to look Bob up. My TRF and Select-A-Tenna made the trip with me and I DX'ed from Wailea which is on the west coast of Maui. It is amazingly quiet there, electrically, even at the hotel where I stayed, the Intercontinental. The only noise I noted came from the hotel mains, and when I unplugged and ran the radio off batteries, it cleared up. Nothing particularly noteworthy was heard, altho I did get a good logging of KBAI one night, their 500-watt signal easily equalling that of KGO, 10-Q, or any other of the west coast clears. Also heard KIPQ on their new 570 allocation. Locally, KBDF is now "13 Kickin' Country, KYKN" and they've moved their studios to Coburg, OR in the same building as KDX; KZEL has moved their studios to within a block of where I live (racquetball acres, as PETE NOLAN likes to call it), and KZAM should be on within 60 days, and they've moved in with KQDQ. I'm glad to see that the club finally got its hands on a Yellowstone TIS List - I've been trying to obtain one for almost a year now. I really don't think anyone will ever get a logging on them, tho. Reasons why I say that: Yellowstone is located in a "bowl" with mountains on all 4 sides (the rockies). Also, the TIS's located within the park operate only between sunrise and sunset, and they only operate between mid-May and mid-October which is hardly prime-DX time. However, I keep trying anyway, but local KASH-1600 makes it difficult if not impossible. Also my sources keep saying 1606, not

HARRY HAYES - 9 HENRY ST. - WILKES-BARRE, PA 18702 (PM 5-16; REC'D 5-18)
The band continues quite good into May. In fact, the skip sounds stronger now than it did all winter. Signals from Europe were present on the upper band in the beginning of the month. 5-6: 2011 WKDW-900 VA with ID. WLMD-900 Laurel, MD with s/off by woman, for a new one long sought. 2036 CKNX-1290 ON; 2205 WFAS-1230 White Plains NY with old R&R. 5-15: 2000 WCCM-800 MA finally hrd with WLAD QRM with s/off and plug for WCGY-FM. Oh, YES: I joined the ranks of the unemployed as of 5/1 so I've been home to pursue E Skip on television, and as of the 15th the band has been open at least 6 days to channel 2, at least, and one excellent FM opening already on the 6th. I've been thinking also of trying the AM band again in the wee hours as I used to do in my non-working days, but the condition of the "all-night" situation has turned me off. I don't think anybody goes off anymore. This brings me to another thought. I think the so-called "end of the season" and "beginning of the season" are a thing of the past. In the days when it was possible to hear that far-western station in the middle of the night, winter was the best time to hear it. But the way things are now on AM it seems that the only way one will hear new stations is to do sunset or sunrise and the spring and summer do seem to offer this opportunity: witness my hearing WCCM for the first time tonight. So don't close up the DX Shack, people, there's still DX in the summer. (Indeed, in my neophyte days on the old RCA 5-Tuber, I DX'ed mainly in the summer because it was too cold in my bedroom to DX in the fall and winter. And I got scads of good catches -pls)

BILL TOWNSEND - 4500 CONN AVE. NW#901 - WASHINGTON, DC 20008 (PM 5-26; Rec'D 5-29) (202) 966-8046 Greetings once again from the land of pleasant living. Time for re-intro. I'm 53 (I rounded out the "joker" year, in addition to one year for each card in a regular deck), single, and live with my 81-year-old stepmother on the top (ninth) floor of a yellow brick (not road, hi) apartment building in upper NW DX. This locale is the pits as far as any serious FM/TV DX'ing is concerned, due to the close proximity of several FM/TV Towers which means images all over the FM/TV bands. However, I did manage to hear one FM station and two TV stations from Norfolk VA and two TV stations from southern NJ during unusually good TROPIC CX last July. I work as a computer programmer for the National Weather Service (don't blame me for the %&y weather, hi) with my office on the third floor of an eight-story pile of concrete and steel and glass (a DX-buster as far as AM goes; FM isn't even faded) in Marlow Heights in southern MD, 7 mi/11km SE of the U.S. Capitol and 12 mi/20 km SE of my pad. I got many a nifty FM catch there during lunch break. The WADXA had a GTG at a restaurant for a change with an all-you-can-eat dinner (my kind of eating; I usually eat everyone under the table; \$20 worth of food for \$6) (Do they deliver? hi -pls) However, I don't eat like that all the time; I might use my belly as a weapon, hi. Among the fourteen attendees at the Horn and Horn smorgasbord ("sandwich" in Swedish in Rockville, MD were TOM WHITE and yours truly. The next GTG will be Alfresco, a picnic in early August. Another station has entered the Oldies derby on Saturday nights. WRR0-1440 (ex-WHHH) Warren, OH, which is a big pest on that channel. This makes ten stations on AM including the three carrying Dick Bartley's "Solid Gold Saturday Night" program. And WYST-1010 (ex-WSID) has joined the midday Oldies fracas. However, my favorite station for Oldies at lunchtime is WNAV-1430 (its FM outlet is now under the call WHFS, ex-WLOM, ex-WNAV) with Neil Ellis in the "hot seat" (not the electric chair, hi), especially when the "doo-wop" songs are played. I took advantage of pleasant May WX and pounded the pavements again. I hoofed it to my old grade-school alma mater, Linton Hall, a catholic boarding school for boys under the benedictine nuns with military-type training, which I attended during WWII. The school is in Bristow VA 6 mi/10km west of Manassas, a west-side suburb of DC (home of WPRW-1460), and 37 mi/60km WSW of my pad, and 65 mi/104km from WBAL-TV-11 and WJZ-TV-13, both in Baltimore Md, WITH BOTH STATIONS BEING HEARD AT Linton Hall with good to excellent signal on my REALISTIC PORTAVISION 12-660 rig. That walk was on mon's day. Five days later I played "hokey" from work and hiked from upper NW Washington to upper NW Baltimore, from my QTH to Memorial Stadium, home of the World Champion Baltimore Orioles, via Columbia Mall in Columbia, MD and Pinlico Race Track on the eve of the Preakness Stakes, listening to Oldies most of the way up on my picket GE rig, especially WYST. WYST is giving WXJR some competition as an Oldies station. I got to the ballpark in time for the mariners game, which the Birds won 4-1. The next day a warm front moved north of us and I took advantage of 89-degree heat to swim in 15-20 feet of water and "chase bikinis" at the Timberlake Resort near Oakton, VA on that day and on my birthday two days later. DX'ing ought to be very interesting in the I-85 corridor on Wed., 5-30 since the path of the annual solar eclipse follows it very closely. I may be down in Petersburg, VA that day. Time for s/off. 73's.

PAUL SWEARINGEN - 7310 ENSIGN AVENUE - SUN VALLEY, CA 91352 (818) 765-7651
I forgot to mention in the beginning of this episode of MUSINGS that the deadline for #28 will be June 30 and for #29, August 4. Are you making plans for COLORADO SPRINGS. And WHY NOT?? I HOPE TO SEE YOU THERE. 73.

Well, this ends the first experiment in sending a column via the telephone, a landmark, of sorts. Did this all come out right; Paul? -HQ



Your bids go to the Address at the right and NOT TO NRC HQ. Orders for direct sale items and for All bids should be sent to: SAM BARTO 47 PROSPECT PLACE BRISTOL, CT 06010

MAKE YOUR CHECKS & MONEY ORDERS OUT TO "HAP"

This page brought to you as a Public Service of the NRC

HAP BID ITEMS: Several new ones this time and many of them: ITEM # 601: HTV "Rock" metal badge (1"cir)/m/c.#602:WLLZ"Genesis"metal badge(1"cir)/yellow,white.#603:WLLZ"Romantics" metal badge(1"cir)/red,white.#604:WLLZ"Robert Platt"metal badge(1"cir)/blue,white.#605: WLLZ"AC/DC"metal badge(1"cir)/BSW.#606:WCCM"Oldies"metal badge(1"cir)/red,BSW.#607:HTV cloth sticker(4x4")m/c-nice!#608:WDBO"Florida State"heavy plastic license plate(6x12") m/c-nice!#609:KXBJ insulated coffee mug with top,m/c-very nice!#610:Beacon Radio(UK) pen,red,white,blue.#611:Beacon Radio metal pin(1.5"cir)/red,white,blue.#612:Beacon Radio "West Midlands"sticker(4x8")m/c-sharp!#613:BBC Radio Manchester(UK)large litter bag,red, BSW-nice!#614:BBC Radio Manchester decal(3x5")red,BSW.#615:Radio Cape of Good Hope(South Africa)decal(2x6")green,BSW-rare!#616:Radio Prague(Czech.)3 different scenic slides.#617: BBC Radio Manchester 1984 diary/nap book-very,very nice!#618:CKO station pen,red,white. #619:BBC Radio Bristol(UK)sticker(5"cir)/red,white.#620:FRENEX 1979 bulletins-complete! #621:FRENEX 1980 bulletins-complete!#622:FRENEX 1982 bulletins-complete!#623:FRENEX 1981 bulletins-complete!#624:Radio Forth(Scotland)decal(5x6")m/c.#625:Red Rose Radio decal(5x 5")m/c-nice!#626:Radio Vatican QSL card(4x6")m/c.#627:Devon County Radio(UK)QSL card(4x5) red,white,blue.#628:BBC Radio One(UK)sticker(2.5x3")red,white,blue.#629:VOA(US)sticker (3"cir)/red,white,blue.#630:Voice of Hope(Lebanon)sticker(3x9")yellow,BSW.#631:High-Adventure Radio(Lebanon)sticker(3x6.5")yellow,BSW.#632:High Adventure Radio gold key chain- best I've ever seen!!#633:VHF-UHF Digest 1974 bulletin-complete.#634:VHF-UHF Digest 1975 bulletins-complete.#635:VHF-UHF Digest 1976 bulletins-complete.#636:VHF-UHF Digest 1971 bulletins-complete.#637:ASWLC 1979 bulletins-complete.#638:BBC Radio Two(UK)decal(6x11") m/c-nice!#639:BBC Radio One match book,m/c.#640:RBI(BDR)cloth hat(adjustable)/blue,white. #641:RBI 1984 cloth calendar(1x2 feet!)-beautiful!#642:Radio Bucharest key chain,m/c. #643:Radio Bucharest new style pin,m/c.#644:Radio Bucharest cloth pennant(4.5x7")orange, red,white.#645:BBC Radio Highland(Scotland)T-Shirt(M)inEG/Gaelic,red,white,blue.#646:BBC Radio Highland sweatshirt(M-L)with pocket and hood in EG/Gaelic,2 tone blue.#647:BBC Radio Highland sticker(2x10")m/c.#648:BBC Radio Shetlands sticker(3.5"cir)/green,white.#649:BBC Radio Shetlands sticker"Hamefarin"(3.5"cir)2 tone blue,white.#650:NNRC 1972 bulletins-complete.#651:NNRC 1973 bulletins-complete.#652:NNRC 1974 bulletins-complete.#653:SPEEDX 1979 bulletins-complete.#654:SPEEDX 1980 bulletins-complete.#655:SPEEDX 1981 bulletins-complete.#656:Radio Jamahira(Libya)C60 cassette tape of music-studio quality.#657:BBC Radio Lancashire decal(2x11")m/c.#658:Mercia Sound(UK)decal(3x15")m/c-nice!#659:Deutschlandfunk(FRG)vinal double sided pennant(5x8")red,yellow,BSW.#660:RCI(Canada)metal badge, bronze.#661:Radio Forth(Scotland)key chain,orange,BSW.#662:Radio Forth metal badge(1.5" cir)/orange,BSW.#663:BBC Radio One decal(2x12")m/c.#664:Radio Banconara Sciu(Italy)reflective sticker(2x4.5")m/c.#665:Radio Sweden poster(11x17")m/c.#666:Deutschlandfunk sticker (5x5.5")m/c.#667:KTAC large poster,m/c-nice!#668:RCMA 1982 bulletins-complete.#669:CLDXC 1983 bulletins-complete.#670:CPGN QSL card(4x6")m/c.#671:Radio Italia reflective sticker (3x5")red,silver,green.#672:Radio Tirol(Italy)sticker(4x4")red,BSW.#673:Europe #1(FRG) sticker(3x7")blue,BSW.#674:Radio Libertaire(France)sticker(3.5x4")BSW-nice!#675:BBC Radio Cleveland(UK)pen,red,white.#676:BBC Radio Cleveland sticker(1"cir)/red,white,blue.#677: Radio Mexico sticker(3x4.5")m/c.#678:ACC(Australia)"boat"sticker(7"cir)/m/c-beautiful!!! #679:Radio Nederland plastic money pouch,BSW.#680:RBI litter bag(11x17")m/c.#681:CPGN sticker(4x4")m/c-nice!#682:CFOX sticker(4.5"cir)/m/c-beauty!#683:Devon County Radio decal (3x9")m/c.#684:Radio Vatican 1984 calendar in Spanish.#685:Radio Vatican 1984 calendar in Polish.#686:Radio Vatican 1984 calendar in German.#687:CPGN metal badge(1.5x2.5")red,BSW. #688:Radio Bucharest key chain,m/c-nice!#689:Voice of Tomorrow QSL card(3x5")BSW.#690: WYFR sticker(4x6")yellow,BSW.#691:South Coast Radio(Ireland)decal(6x6")red,white.#692: BBC Radio One 15th Anniversary Rock Special magazine-over 60 pages!#693:4FFF Radio Freedom(New Zealand)sticker(3x6")red,BSW.#694:BBC Radio Nottingham decal(3x7")m/c.#695:Radio 210(UK)pencl,red,gold.#696:Radio Nacional de Venezuela decal(3"cir)/red,white,blue.#697: KT20-TV cloth iron-on arm patch,m/c-nice!#698:WWVI(Virgin Islands)sticker(3x5")white, blue.#699:Radio Koper-Capodistria(Yugoslavia)sticker(2.5x3")m/c.

ADDRESS: Send your bids and orders for direct sale items to: Sam Barto, 47 Prospect Place Bristol, CT. 06010. Please include IRCs on overseas orders.

HAP DIRECT SALE ITEMS: The following stickers/decals are available for \$.25 each or any 5 for \$1.00: CKCR, Radio BBSI, WNIC, RFL (red) (blue) (cir), KMJK, CKRD, WAZU, KBBX, CPUN, KMK, CFRA, Radio 210, Disco-99, Amateur Radio, WJNC, RCI, ANARC, CPTI, RNE, Radio Vatican (small) (semi-cir) (square), WDR (rock) (small), Radio 270, 55-Country, Radio Derby, Rete Quattro, Polskie Radio, ORF, Metro Radio, KPNW, KDKD, WCLF and WINS.

ADDITIONAL DIRECT SALE ITEMS: The following items are available at the quoted prices: Metal badges from WLPX, WMMR and WMET at \$.25 each; Radio Peking and RBI book markers at \$.25 each; WMMR book covers at \$.25 each.

HAP THANKS: A big thank you goes out to the following individuals who recently donated items for the auction: L. Corrin, Jim Savage, Charles Fox, Real Lavoie, J. Fenton, P. Dillon, M. Schmidt, Dave Walcutt, Arthur Cushman, Tom Haskett, John Huntwell, D. Sheedy, R. Giannini, Joe Talbot and Dale Park. Thank you very much gang! ANARC is drawing very near. We still are trying to collect as many items as we can for the auction at ANARC. If you have anything you would like to donate, please send it along.

VERIFICATION GAME

Wayne Heinen
1642-C S. Idalia Cir.
Aurora, CO 80017

540	CJSR1	Judy Bath Ex Asst.	KG	1310	KAAM	Wilda May PA	JH
570	KRQX1	T. Bender OpD	CD		CHGBl	Germain Gelunas TD	HH
580	KSAC	Delbert Staab CE	JH	1320	KOLT	Geoffrey Hammond M	JH
590	WRTHlm	J.E. White CE	BP		WAGYlbz	Don Lovelace O & M	HH
640	RFO-	Guadeloupe q A. Sudre			WBYJ1	Edward Burkhardt CR	HH
		Le Responsable de Diffusion	BH	1330	WROT1	Jerry Starr (NRC)	BH
680	WCAW1	Tim Sawyer CR	JM/BH			Buffalo K. Foonman (SWAT)	CD
700	WCAT1	u/u	HH		WVHR	Vicki Faulkenburg	BH
740	WRAM1m	T.B. Jones III CE	BH	1360	WWRZ1	Andy Harris OpM & PD	JH
	WGS1mb	Marc Sophos ACE	JM/BH		KXOL	Leo S. Burch CE	JH
750	WHEBq	Don MacLennan CE	JR	1370	KGNO	Chuck Stark CE	JH
760	KMTL1	J. Shields GM	CD	1380	WVINr	Morris Genthner GM	KG
770	KJCP1	Thomas "Mac" Dula Cho	CD		WRBQlu	Ralph Beaver CE	HH
790	WAEFb	W.M. Frederick ACE	BH	1420	WCEBq	Larry Fisher CE	HH
810	WSJCq	Walter Hearn CE	JM	1430	WVWQ1	Charles Wooten CE	HH
825		R. Paradise qbz Ivan A.D. Hamilton			CJCL1	Doug Ackhurst VP/GM	WH/JH
		Eng.	JM	1450	WFXL1	Warren Diggins VP	KG
860	WBRG1z	J.G. Henderson GM	KG		WXOL	Ned Jouse E	CD
	CBHq	Debra Post/ G.Smith	HH		WCEV1	L. Migala PD	CD
870	KAAN1	S. Cochren GM	CD	1460	WROY1	Irma Dennis PD	CD
890	WLSf	Al Resnick CE (NRC)	JM		WAKSLmz	Calvin Cole PD	BH
910	KVAAf	J.S. Schmeling CE	CD		KIRL1	Ron Sparks DJ	BP
	KIKM1m	Mark Watkins M	BP	1470	WPNL1	Don Christopher GM	BH
	WLAS1	Skip White CE	BH		WBTXfzb	Wm D. Fawcett CE	BH
920	WOKYq	David Janzer EIC	BH	1480	WSAYf	Tom Crockett CE	BH
	WMMN1	Charles Snoderly CE	BH		KPIAlmz	Steven Buerk	BP
930	WBENq	u/u Doe	BH	1510	KCCV1	G. Gary Coulter OpM	BP
	WSOCq	Bill Huffstetler CE	JM			Joyce Thayer Secy	JH
	KSDN	J.O. Larsen Cho	JH	1520	WHOW1	Larry Duling M	JM
940	WKGM1	Larry W. Cobb VP/GM	JM		WKREF	Phil Badger Asst to CE	HH
	WINZ1mbz	Sandy Powell ESu	BH		WGMAlz	Billy Martin P	KG
950	WPENfz	Charles Fritz CE	JM	1530	KNBOLz	Evelyn Sladovnik	BP
970	WWDJ1	Stuart Engelke CE	HH		WCTRzx	Mark Crouch VP/GM	BH
980	WILKfz	R.F. Balonis CE	JM		WFWC1	Raymond Woolfender Sr.	BH
	WWRC1	Thomas L Mann ME	KG	1540	KLKC	Bob Tesh PD	JH
990	KWAMp	E.W. Bie GM	HH		CHIN1b	Trevor Joyce DoE	JR
	WZZD1mbz	R.F. Tetro CE (NRC)	BH	1550	KKJOL	Bruce Allen PD	JR
1000	WMPZf	Amos W. Pigg Jr.	kg/JM		WMOO	Wilbur H Goforth GM	JH
	WTAK1	Mark Bond CE	HH		WPHC1	Salvador Lew GM	BH
1010	WKBQ1	Buck Poe	HH	1560	KAJN	Mike Lewis Eng. P	JH
1030	CFREq	Clive Eastwood CE	BH		KQYX	Wm B. Neal GM	JH
1040	KHOG	Gayle Carver OpM	JH		WKIqlh	P. Scott Miller CE	JM
	KBSM1	G.R. Mundkowsky CE	CD		WCCPlp	Betty K Black GM	JM
	WSKEqz	u/u	HH	1570	WFLR1	John Clancy P/GM	JM
	qz	Sandra King (Mrs)	JM		KMYZpuz	Ralph Wallich	
1070	WTSOL	S. Stern CE	CD			Jim (Micheals) Ver Hoef GM	
	WIBCq	U/U CE	BH		CKTAlm	Ray Murray MXD	BH/JH
	KFDI	Clifford Koch E	JH		WPGM1	Larry Souder GM	BH
1100	KKLL	Gail Stubblefield O bp/JH	JH	1580	WSRFzf	James E Leifer	JR/BH
		Don Stubblefield O	CD		WUW1	Elaine Iowman	CD
1110	WURN1bz	Jeff Zufelt PD	KG		WAJEL	Gary H. Kleiman VP/GM	HH
1120	WQXM1	Al Parker OpM	KG	1590	WERAL	Mark Wurzbarger PD	BH
1130	WPUB1	John D. Livoti GM	KG		WCAM1	A.Clark Almarode AE	BH
	WBBF1	Thomas N. Thornburg P	KG		WAIK1b	Jon Symmonds E	BP
	WPULp	u/u P	HH	1600	WRNC1	Don Carroll M	KG
	WMGAp	u/u	HH		WKJSL	u/u	KG
1140	WCJW1	John B. Weeks GM	BH	1616	KPRCq	"Pirate Pete"	JR
1170	WRTT1mz	Harry Cyr E	KG				
	WXAX1	Wm C. Branham P	HH				
	WBRW1b	Dick Andrews PD	BH				
1190	KRDS	James P. Wall GM	JH				
1200	KFNWfmbz	Mark A. Mohr CE	JM				
1240	WBA1xb	Ron Schacht CE	JM				
	KVSO	u/u	JH				
	WYGL1	John Knight OpM	KG				
1250	WKBR1	Rudolph Nelson GM	BH				
	WLEMf	George M. Jones Jr. VP	BH				
1260	WNRDr	David Engle CE	JM				
	WBHCL	T. Gross	CD				
1270	WOR1lb	Nathan Hemphill PD	BH				
1280	KSOK	Richard T. Wartell GM	JH				
	KBRQq	Richard Baltes CE	WH				

See you in COLORADO SPRINGS

RAMBLIN' BACK

with Peter Kemp

A RADIO TOUR?

Fascinating new Game! Have the fun...thrills...adventure of a RADIO TOUR. Throw out old, worn-out tubes...retube with new Cunningham or Radiotrons.

Here's a chance to get in on the greatest game ever devised for radio set owners! Don't confine yourself to five or six stations...there are more than 650 to choose from...Go on a Radio Tour! A turn of the dial and you're touring North America! Drop in on Miami, hear a dance under a warm tropical moon...join a barn dance out in Indiana...get the thrill of Mardi Gras in New Orleans...a "First Night" in Hollywood...hear those powerful stations in Mexico...From Maine to California, the game is on-get in it!

Here's all you need to start playing: A good radio set, with a good antenna system-plus a new set of Cunningham radio tubes or RCA Radiotrons. Don't be held back by worn "stick-in-the-mud" tubes. Step out tonight with the world's finest-the only tubes guaranteed by RCA...built with 5 great new improvements undreamed of when most people bought their tubes. To make it easy for you, we'll send you a large 4-color "Radio Tours" map showing at a glance all the radio stations in the United States, Canada and Mexico, with call letters and kilocycles...And the remarkable new "Radio Set Performance Yardstick" devised by RCA and the Cunningham engineers. It tells you whether your set is excellent, good, fair, or poor operating condition. Get this exciting booklet "Radio Tours" with the new "Radio Set Performance Yardstick" from your dealer or send 10c in stamps to cover handling and mailing to RCA Radiotron Company, Camden, N.J.

How about his for commercial support of our fascinating broadcast band DXing hobby?

1984 NRC CONVENTION GOERS

We will not be able to get into the NORAD Center, So as an alternative, the NORAD people suggest the Peterson Air Force Base Museum. If you would like to go on this tour, let WAYNE HEINEN know ASAP.

Mr. Wayne Heinen
1984 Convention Host
National Radio Club
1642-C S. Idalia Circle
Aurora CO 80017

Dear Mr. Heinen

Thank you for your interest in NORAD and the Space Command. Unfortunately, we no longer have unofficial tours of the Cheyenne Mountain Complex. This program has been discontinued due to changes in our security levels and a growing space mission. We are also limiting official visits to agencies who have a justified need to see the facility and appropriate security clearances.

May I offer instead a visit to the Peterson Air Force Base Museum (303) 554-4915. This facility is open Monday-Friday from 9:00 a.m. to 5:00 p.m. and from 10:00 a.m. to 5:00 p.m. on Saturdays. We could also arrange a briefing of our mission at the museum. If you would like to receive the briefing, call Captain Marty Stytz. He can be reached at 554-3022.

Sincerely

Charles A. Wood

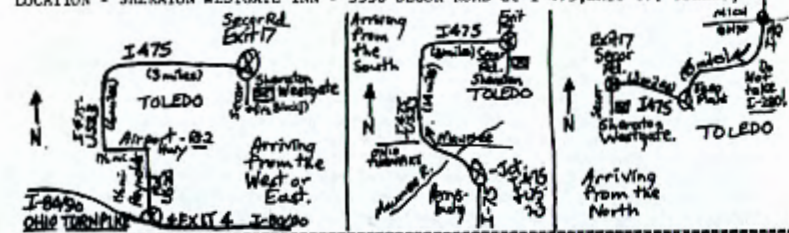
CHARLES A. WOOD, Major, USAF
Chief, Community Relations Division
Directorate of Public Affairs

The welcome mat is out for all IRCA members and DXers of whatever persuasion to attend the 20th annual convention in Ohio's Newest City - Toledo. Being in the heart of the Midwest Toledo is within easy reach of 2/3 of the United States population and likewise many DXers. Thus we hope to have many of you here to share in the fun and merriment. Make plans to attend Toledo IRCA '84 August 17th thru 19th. Below is a map to guide your way. See you this summer! 73s.

Registration Fee \$22 - Payable in advance.

This includes the Saturday night Banquet, and yes attendance is required. The featured entree is chicken. Room rates are listed on the reservation form printed below. Please fill out and return no later than August 1, 1984.

LOCATION - SHERATON WESTGATE INN - 3536 SECOR ROAD at I-475, EXIT 17, TOLEDO, OH



INTERNATIONAL RADIO CLUB OF AMERICA 1984 CONVENTION RESERVATION FORM

NAME: _____ PHONE: _____ No. in ROOM _____

ADDRESS: _____ PREFERRED ROOMMATE(s) _____

CITY: _____ PREFERRED ROOMMATE(s) _____

STATE/PROVINCE: _____ ZIP/POSTAL CODE: _____

ARRIVAL DATE/TIME: _____ DEPART DATE/TIME: _____

ARRIVAL MODE: CAR _____ PLANE _____ TRAIN _____ BUS _____ OTHER _____

DO YOU REQUIRE PICK UP AT: TOLEDO EXPRESS AIRPORT _____ To assure pick up call at least one week ahead to TX below.

Specify Airlines _____ DETROIT METRO AIRPORT _____

GREYHOUND or TRAILWAYS BUS STATION _____ AMTRAK TRAIN DEPOT _____

OTHER/Please Specify _____

TYPE ACCOMMODATIONS: Single \$45, Double \$51, Each Additional Person \$6 extra.

RESERVATIONS are normally held until 6pm. Rooms will be held longer if guaranteed payment arrangements are made. Check in time is 4pm, check out time is 12 Noon.

SIGNATURE _____ Prepay of \$22 registration fee may accompany this form. Check payable to IRCA CONVENTION 1984.

MAIL TO: GARY SIEGEL, 2728-106th St., TOLEDO, OH 43611. Any questions re registration or pick up arrangements - 1-419-726-1405, best to call evenings.

AUCTION ITEMS: Mail to Ken Romstadt, 2541 Schroeder CT, Toledo, OH 43613.

WGAY-AM Selling For \$950,000

By Jacqueline Trescott

A Hagerstown, Md., businessman has agreed to buy WGAY-AM from Greater Media Inc., enabling Greater Media to proceed with the purchase of WWRC-AM from the National Broadcasting Co.

At least temporarily, Washington will have two stations broadcasting a news-talk format for portions of the day. WWRC, which had been owned and operated by NBC since 1923, has a popular news-talk format with Joel A. Spivak, Tom Braden and Pat Buchanan and others that has earned it a 42 share and 10th ranking in the last ratings. WGAY-AM earned an overall 0.7 share of the market, but

WGAY-FM, its sister station with which it simulcasts daytime programming, earned a 84 share, ranking second in the market.

Gary Portmess, the president of Interstate Communications Inc., and the owner of WHAG-AM, a news-talk station, and WQCM-FM, a top 40 music station, purchased WGAY for \$950,000. Greater Media, the owners of WGAY-AM and FM in Silver Spring, paid \$3.6 million for WWRC. They announced their intention to buy the station in February but couldn't complete the transaction until they sold WGAY-AM. Both parties plan to file documents for the transfers of the licenses with the Federal Communications Commission today.

Plans for the future format of WWRC are still incomplete.

The remainder of the talk hosts, including Michael Cuthbert, Ron Eisenberg and Gabe Mirkin, in addition to Spivak, Braden and Buchanan, are reportedly

paid handsome salaries. Braden and Buchanan reportedly make \$100,000 each and Spivak \$80,000 but WWRC would not confirm those salaries yesterday. WWRC has approximately 30 full-time employees.

NBC Talknet is a nighttime-only package of talk shows with Bruce Williams, Sally Jessy Raphael and Bernard Meltzer. From 7 p.m. to midnight, according to the Arbitron ratings, WWRC's lineup ranks third with a 22 share of the market behind the music shows of WHUR-FM and WKYS-FM. WKYS is also owned by NBC but is not affected by this sale.

Portmess plans to have a news magazine format on daytime WGAY from 6 to 9 a.m. and 4 to 6 p.m. and plans to use the full-time ABC Talk Radio from 10 a.m. to 4 p.m., as well as ABC Entertainment Radio News and Cable News Network headline service. "We are going to do mainly what they have been doing at WRB but on a lower budget," said Portmess. Some of the news shows will be done by local reporters, he said.

VIA MESSAGE

LABOR DAY WEEKEND --- AUGUST 31 TO SEPTEMBER 2, 1984

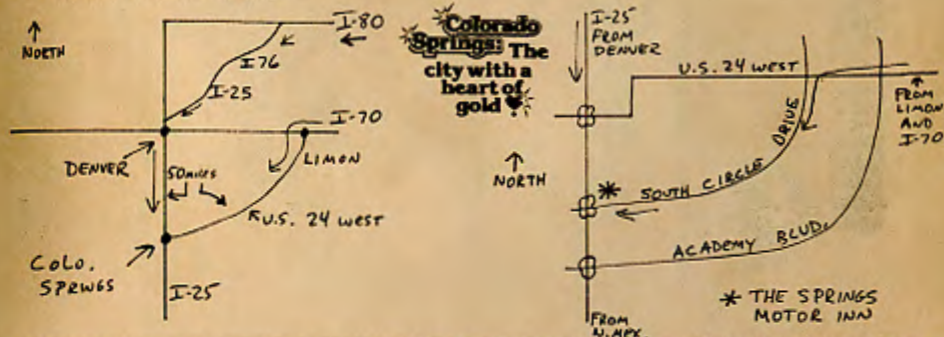
Welcome to the beautiful Pikes Peak Region. Hundreds of attractions and fantastic scenery will greet the lucky members who decide this is the year to start the NRC's second half century. The Springs Motor Inn is centrally located on the south edge of Colorado Springs just east of the Circle Drive exit. See the handy map below.

Registration Fee \$32.00 (US)

This INCLUDES the Buffet Banquet on Saturday Night AND a sight seeing tour by van to the Summit of PIKES PEAK. Room rates are listed below in the handy registration slip. The NRC SWAT TEAM is presently forming up our ranks and busily preparing a host of activities and what nots to keep everyone at a high level of enjoyment. Participate and ENJOY NRC 84 !!!

73 from NRC SWAT TEAM:

Mountain Man, The WIZ, Buffalo K. Foonman, ELK, Waterbug, The Silver Fox, Outlaw, Alfonso Bedoya.



NATIONAL RADIO CLUB 1984 CONVENTION RESERVATION FORM

NAME: _____ NUMBER IN ROOM: _____

ADDRESS: _____

CITY: _____

STATE/PROVINCE: _____ ZIP/POSTAL CODE: _____

PHONE: _____

ARRIVAL DATE: _____ DEPART DATE: _____

TYPE ACCOMMODATIONS: Twin Double _____ Single/Double Occ. \$35.00/Night
Each Extra Person: \$5.00/Night

RESERVATIONS will be held to 6 PM without a deposit. All night with a one night deposit. Deposit may be Check, American Express, VISA, Master Card, or Diners Club.

MY DEPOSIT FOR ONE NIGHT \$ _____ IS ENCLOSED.

CHECK _____ CREDIT CARD NUMBER _____

CARD TYPE _____ CARD EXP. DATE _____

SIGNATURE _____

Please make deposit checks if you send a room deposit by check payable to the Springs Motor Inn. Anyone wishing to prepay the \$32.00 registration fee may make their Check payable to NRC CONVENTION 1984. MAIL all items to:

WAYNE HEINEN 1642-C SOUTH IDALIA CIRCLE, AURORA, CO 80017