



DX NEWS

The magazine of the
National Radio Club

— SINCE 1933 —

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Inside ...

- 2 .. AM Switch
- 3 .. City Quiz
- 4 .. Station Address Changes
- Formats
- 6 .. Radio Roundup
- 7 .. DDXD-E

- 11 .. DDXD-W
- 15 .. IDX
- 16 .. FM DX
- 19 .. DDXA
- 21 .. WBNS
- 22 .. WFKJ
- 23 .. FCC Primer
- 24 .. REL lists
- 25 .. R390A - Best?

- 29 .. More 51J4
- 32 .. NRSC-2
- 33 .. Verie Signers
- 34 .. CPC Report
- 35 .. GYDXA
- 38 .. Bandscans
- 41 .. Musings
- 46 .. Convention
- 47 .. Charge!

From the editor ...

Another plethora of riches again ... thanks, all, who contributed.

Big news for those of you who have awaited the development of the Superloop, Model MWL-900, unveiled at last year's convention in Milwaukee: it's now available for purchase, after some four years of research. Information is available by writing to Dajja Enterprises - N4561 Circle Drive - Cambridge, WI 53523; technical data is available for \$1.00.

I'm rapidly building up a backlog of articles and clippings, more than I can ever possibly use, so if your clipping doesn't appear right away, don't despair, and don't be like one member who threatened to quit the club if his clippings weren't used (ironically, neither Mike nor I ever received any). The first priority in these pages is to publish items of use to BCB DX'ers, with historical, programming, and other items secondary, and as long as the DX information columns continue to be so heavily supported as they are now, clippings will appear minimally. Submissions going right into the trash unfortunately include non-AM or FM items, outdated stories, photostated copies which are grey or reduced in size, and those marked with highlighter (which repros as black), scribbled or marked with pen, or with pieces missing. Also, I can no longer use stories about format changes, unless very unusual. Please also include the name of the publication and your

name, for proper credit, and DON'T write on the back of the clipping. Thanks!

Publications ... Universal Shortwave is offering Catalog 89-07, 52 pages, for a dollar/3 IRC's or free with any purchase: 1280 Aida Drive - Reynoldsburg, OH 43068. *Latin American Radio World*, by Julian Anderson and Gabriel Iván Barrera, includes much useful DX information current through July, 1989, and it is available for U\$5 or 10 IRC's: Casilla 4616 - 1000-Buenos Aires - Argentina.

Please stand by ... De Boss says that the Credit Card Order line and NRC HQ phone number will be closed during the following time periods: from August 18, 11 pm to August 27, 11 pm (CLT), and from August 31, 11 pm to September 4, 11 pm (CLT). They'll be blowing out the lines ...

Finally, Ken Onyschuk says that WBEE-1570 signs off at 1900 instead of 0100 as in the log.

DX Time Machine

From the pages of DX News

Twenty-five years ago ... From July 18, 1964: Russell J. Edmunds, Little Silver, NJ, reported a "sickly" verie return average of 80.1 ... Ken Butterfield, Plymouth, MI, reported his verie average as 89.8 ... 15-year-old Rich Gula didn't listen to summer DX naysayers and added 50 stations to his log in the first two weeks of July ... and the top 20 names in Supremacy Ratings (listed by countries heard) were Hank Tyndall, Ken Mackey, Art Cushen, C. M. Stanbury, Kermit Geary, Hank Holbrook, Ben Dangerfield, Bob Botzum, Stan Morss, Steve Johnson, Hilding Gustafson, Ernie Cooper, Pete Taylor, Dave Pope, James Gangler, H. J. Wilkinson, Norm Maguire, Gene Allen, Roy Millar, and Ron Schiller.

Ten years ago ... From July 16, 1979 ... Gary Houdek reported that WOW-590 was using AM Stereo through August 3 ... Jerry Starr reported 22 attendees at YAD-6, including the elusive Alfonso Bedoya.

Publication Schedule, Volumes #56, 57

| Issue # | Deadline | Masthead Date |
|---------|-----------|---------------|
| 29 | August 12 | August 21 |
| 30 | Sept. 16 | Sept. 25 |
| 1 | Sept. 30 | Oct. 9 |
| 2 | Oct. 7 | Oct. 16 |

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

AM Switch

Jerry Starr

 c/o WHOT Radio
 4040 Simon Road
 Youngstown, OH 44512-1320

Status changes in AM stations, supplied by the FCC and NRC members

CALL LETTER CHANGES

| Old call: | New call: | Old call: | New call: |
|--------------------------|-----------|----------------------------|-----------|
| 560 WFIL PA Philadelphia | WEAZ | 1260 KTYE CO Aspen | KSNO |
| 910 WRCQ CT New Britain | WNEZ | 1330 WNYM NY New York | WWRV |
| 980 KICJ LA Shreveport | KIOU | 1390 WPKO OH Bellefontaine | WBLL |
| 1050 WTPO GA Conyers | WPBE | 1440 WSLE GA Bremen | WBKI |
| 1140 KPHD TX Conroe | KSSQ | 1450 WFRG NY Rome | WPIG |
| 1230 KPAK CA Redding | KLXR | 1510 KDVE TX Nederland | KQXY |
| 1240 KZZE TX Brownwood | KXYL | 1520 WRQK OH Canton | WINW |

CALL COMMENTS According to the M Street Journal, the FCC has FINALLY made a move toward computerizing the Call Letter Department. Yep, that's right, while the master inventories have been on computer for a long time, the bureau that deals exclusively with call assignments and reporting is still doing it all by "longhand" and card files! The FCC states they "have been releasing flawed, incomplete and untimely records of broadcast call letter changes. Since many organizations, including several areas of the FCC, are tied to call letters for record keeping the flawed data spreads out from the FCC and is recirculated through other sources." NO FOOLING? This is NOT a big news flash here at AM Switch! The Video Services Department has loaned John Wong to Call Letters to impliment the project. He admits "the job is a very large one and will take some time." MSJ notes that the latest Call Letter Notice (#114) contained only four changes and failed to list the cities for any of them. Maybe finally the outpouring of bad and incomplete call data will be changing and it's about time. Your government dollars at work! Place your bets on what year (or century) they'll finally get this long standing mess straightened out.

APPLICATIONS FOR NEW STATIONS

1020 FL Kendall: 10000/2200 U4
 1030 AZ Cortaro: 10000/1000 U4 (reapplication)

GRANTS FOR NEW STATIONS

610 PR Patillas: 1000/500 U4
 700 WA Camas: 12500/1000 U4 (note the 700 Camas denial last issue was for a second competing application)
 770 TX Garland: 1000/1000 U2

APPLICATIONS FROM EXISTING FACILITIES

540 KDFT TX Ferris: city of license to Desoto, TX
 630 KIAM AK Nenana: reduce powers to 2200/2200
 KHDL WA Opportunity: to 840 kHz with 50000 watts (no mention of night)
 740 WNWZ FL Orlando: 50000/50000 U4
 920 WTMN NJ Trenton: day power to 1400 watts
 1190 WOOO FL Royal Palm Beach: 890/1000 U2
 1240 WAGO PA Reading: studio location to Ephrata, PA (we don't normally list studio changes but we note that the new address is that of WIOV-FM so you might expect to hear WIOV simulcast on WAGO)
 1290 WHGR MI Houghton Lake: 4600/4900 U4
 1400 KEBE TX Jacksonville: reduce powers to 450/450 watts
 1490 WMOG GA Brunswick: reduce powers to 600/600 watts
 1520 WTRI MD Brunswick: reduce CH power to 1400 watts

GRANTS TO EXISTING FACILITIES

720 WGCR NC Brevard: power to 10000 watts, city of license Pisagah Forest
 1020 WRIX SC Homeland Park: day power to 10000, CH power to 3000 watts
 1130 KBMR ND Bismarck: to 710 kHz with 10000/4000 U3



1480 KMEX TX Dallas: night power to 1900 watts, relocate XR
 1490 KDMO MO Carthage: relocate XR
 1540 KGHT AR Sheridan: day power to 50000, CH power to 31000, relocate daytime XR (note this is for their 880 kHz CP)
 KSGB TX Fort Worth: night power to 5000 watts, relocate XR, city of license to University Park, TX

OTHERNESS

540 KPUP CA Carmel Valley: target date was 7-1, may be ON THE AIR
 670 WWFE FL Miami: may be ON THE AIR by the time this reaches you
 720 WRZN FL Hernando: may be ON THE AIR by the time you read this
 770 WWAM FL North Fort Myers: new station is ON THE AIR
 KBEC TX Waxahachie: CP for this frequency is DISMISSED as part of a settlement agreement which paved the way for the granting of the new Garland, TX station as noted under New Stations above. KBEC will remain on 1390 kHz
 880 KUTE CA Desert Hot Springs: construction of this new station slated to begin in September 1989
 1020 WPJC PR Adjuntas: may be ON THE AIR by now
 1050 KMBA NM Los Ranchos de Albuquerque: silent station is back ON THE AIR
 1170 WKFL FL Bushnell: may be ON THE AIR by the time you read this
 1220 KBET CA Canyon Country: may be on the air by now
 1300 WSSG NC Goldsboro: silent station has been sold, may return soon
 1480 WCIN OH Cincinnati: station is reported to be SILENT
 1510 WXLX NC Blowing Rock: silent station has been sold, may return soon
 1520 KJSM WA Sequim: request for extension of CP for new station DENIED
 1530 WJPJ TN Huntington: station is SILENT
 1550 KOZR CA Apple Valley: announced target date is September 1989
 1660 KA2XXB MD Beltsville: latest news on the NAB anti-skywave experimental station: Construction began 6-26 with testing scheduled to start in August 1989, 295 foot tower erection was expected to take eight days. Although a power of 5000 watts was granted, most transmissions will be in the 400 watt range and all tests will be conducted at night. The Prestholdt antenna to be tested first consists of the traditional vertical tower with the addition of a horizontal radiator at about 220 feet fed by a separate balanced network and supported between the guy wires. Mobile monitoring units located 10 to 15 miles from the test site will take field strength readings to determine the design's effectiveness. According to Prestholdt the horizontal radiator can be oriented in the direction in which skywave presents the most problems so evidently this antenna is not expected to have anti-skywave properties in ALL directions. In the next issue we hope to have information on getting a QSL from this station if you hear it so don't forget to check 1660 kHz periodically when you are DXing at night.

WMID
 FM99.3
 AM 1340

THANKS to the following members who contributed Otherness items: STEVE KENNEDY (via the NRC Net) FRED VOBBE, WAYNE HEINEN, HOWARD KEMP, CLAY ADAMSON and B. B. McCLEURKIN (who successfully located Tse Bonito, NM for us)

73 and Good DX, *Danny & BKF* Jerry Starr & Buffalo K. Foonman

LAST MINUTE FLASH: via Dick Truax (NRC net) 790 WVEZ Louisville, KY call change in DX News four issues ago was given as WWKY per the FCC. The new call is actually WKKY. Please make this correction in your Logs.

CITY QUIZ John S. Bowker, Valparaiso, IN
 quiz # 30

Only one city in the United States has stations operating at the five dial positions shown below. Of course, there may be other stations in this city too! Can you spot the city?

-----560 630 710 950 1090-----

Here is a hint: it is one of these: Providence, Denver, St. Louis
 (The answer will appear at the end of the next City Quiz in DX News.)
 The answer to City Quiz #29: San Francisco

Station Address Changes

Jerry Starr
c/o WHOT Radio
4040 Simon Road
Youngstown, OH 44512-1320

Supplied by NRC members and other sources

| | | | | | | |
|------|-------|----|------------------|----------------------------------|-------|-------|
| 1500 | WJLS | WV | BECKLEY | P.O. BOX 88 | 25804 | RV-VA |
| 810 | WJOD | FL | MIAMI | 1401 NORTH BAY CHURCHWAY | 33131 | RV-VA |
| 820 | WZON | NE | BANGOR | 861 BROADWAY | | WV-NC |
| 740 | FSFS | CO | COLORADO SPRINGS | 2864 SOUTH CIRCLE | 80906 | UT-UT |
| 870 | WEAT | FL | WEST PALM BEACH | 2406 SOUTH LINDALE | | VA-VA |
| 2000 | WSMH | FL | BELLE GLADE | P.O. BOX 1505 | | VA-VA |
| 700 | WHOO | FL | ORLANDO | 1 RADIO ROAD | | VA-VA |
| 1000 | WUP | IL | CHICAGO | 875 N. MICHIGAN AVENUE | 60611 | IL-IL |
| 1080 | WVOS | FL | CORAL GABLES | 2100 SALZEDO STREET | | FL-FL |
| 1100 | WJTO | IL | CHICAGO | 180 N. MICHIGAN AVE., SUITE 1000 | 60611 | IL-IL |
| 1200 | WHI | NE | BREWSTER | 417 WILSON STREET | 68412 | NE-NE |
| 1300 | WBZY | PA | NEW CASTLE | 1906 WILMINGTON ROAD | 16105 | PA-PA |
| 1250 | WJND | FL | WEST PALM BEACH | 1500 NORTH FLAGLER DRIVE | | FL-FL |
| 1300 | WHI 6 | FL | MARATHON | BOUT KEY ROAD, BOUT KEY | 33000 | FL-FL |
| 1200 | FSMR | NE | MCCOON | R.R. 2, BOX 125, OBERLIN | 68047 | NE-NE |
| 1120 | WHHO | NY | HORNELL | BOX 726 | 14843 | NY-NY |
| 1240 | WOME | NY | DOVER-FOXROFT | GUILDFORD ROAD | | NY-NY |
| 1140 | WOLP | PA | WILKES-BARRE | Same as old-WPLJ (ex-WY04) | | PA-PA |
| 1350 | WUYE | PA | YORK | 1360 COFFENHAFER ROAD | 17404 | PA-PA |
| 1180 | WAGS | SC | BISHOPVILLE | 142 WAGS DRIVE | 29010 | SC-SC |
| 1400 | WHIL | FL | FORT LAUDERDALE | 2100 NW 21st AVENUE | | FL-FL |
| 1410 | WHAG | MD | HALFWAY | 1250 MARYLAND AVENUE, HAGERSTOWN | 21744 | MD-MD |
| 1450 | WLCN | NE | LINCOLN | PARK AVENUE | | NE-NE |
| 1470 | WJDY | MD | SALISBURY | 1633 NORTH DIVISION STREET | 21801 | MD-MD |
| 1490 | WAKR | CO | MANITOU SPRINGS | 2812 WEST COLORADO AVE., # 200 | | CO-CO |
| | | | | COLORADO SPRINGS, CO 80904 | | |
| 1500 | WNTZ | FL | KEY WEST | 516 AVENUE, STOCK ISLAND, FL | | FL-FL |
| 1340 | WKIE | VA | RICHMOND | 6001 WILKINSON ROAD | 23227 | VA-VA |



**** CONTRIBUTORS ****

| | | | | | |
|-------|----|-------------------------------|--------|----|---------------------------|
| RV-VA | .. | ROBERT VANCE, FT. BELVOIR, VA | SW-ENG | .. | STIVE WRIGHT, LOGAN |
| NE-PA | .. | WILLIAM PRATER, DALLAS, TX | UT-CO | .. | JEFF LYNNAN, TRAFFIC |
| WH-CO | .. | WAYNE HEINEN, AURORA, CO | RM-MI | .. | ROBERT WALKER, WILSON, MI |
| MM-CO | .. | .. | .. | .. | .. |

Formats

Tony Fitzherbert
356 Jackman Avenue
Fairfield, CT 06430

Changes in programming status; reported by NRC members and others

Welcome to the midsummer edition of Formats. First, here in Fairfield County, WCFS-1260 has gone back to its original call, WMMM (which stood for "Westport's Modern Minute Man" - a figure on the town seal). The format remains oldies, however. And Bridgeport's WICC-600 will have changed hands by the time you read this. About all of the on air staff has received its notice, and the new owners have obtained Soupy Sales, among others to do air shifts until the new staff is in place. Stay tuned for a new format..the new owners also own WEBE-107.9, an AC station headquartered in Norwalk (with the transmitter elements on the side of a United Illuminating power house stack in Bridgeport).

It has to happen! The M Street Journal notes that WRKT - 1530, Northeast, PA., has gone to an all-Beatle format, //with its FM. This is a temporary format, until the owners decide what to do with their new purchase. And, KZZI - 1510, West Jordan, UT, former home of some Nazi programming (covered internationally in the press) is returning from silence to carry WNN motivational talk. Ah, what a fine station ... contributing liberally to the suburban Salt Lake City culture, and blaring from every sunbather's radio on the briny shores of the namesake lake, ha!!

Al Holtz, of Conrail, in Philadelphia notes that the call WFIL - 560, once the great rocker of the '50's and 60's has been shelved ("parked") by the present owners, as they are // WEAZ-FM. They id as "WEAZ-AM". WFIL is being considered for purchase by a West Coast outfit, and, it is speculated, it would carry all brokered stuff....how the mighty has fallen. Also, in Philly, WHAT-1340 has been sold for \$1.65 million, and the new owners will air a Black talk format.

The only contributors this issue are the M Street Journal, and Pete Taylor. Are the rest of you on vacation???? Here goes....

| | | | | | |
|------|------|----|-----------------|---|---|
| 540 | KPUP | CA | Salinas | - | On in mid July w/ modern CWM, ABC nx on the hour (Pete Taylor). |
| 550 | WJMW | PA | Bloomsburg | - | Oldies, standards (M). |
| 560 | WGAI | NC | Elizabeth City | - | Transtar AC (M). |
| 580 | WEL0 | MS | Tupelo | - | Transtar oldies (M). |
| 580 | WHP | PA | Harrisburg | - | News, talk (M). |
| 610 | WAES | NC | Charlotte | - | SMN Kool oldies (M). |
| 620 | KGW | OR | Portland | - | News, talk (M). |
| 760 | KGU | HI | Honolulu | - | News, t/k, BRN Business News(M). |
| 790 | KOSY | AR | Texarkana | - | SMN AC (M). |
| 790 | WVEZ | KY | Louisville | - | To be WWKY, CWM (M). |
| 790 | WSVG | VA | Mt. Jackson | - | SMN oldies (M). |
| 840 | KVEG | NV | North Las Vegas | - | FBN Business News, Sports (M). |
| 890 | WLS | IL | Chicago | - | Talk, info (M). |
| 890 | WHNC | NC | Henderson | - | Transtar AM standards (M). |
| 900 | WEAS | GA | Savannah | - | SMN Heart and Soul oldies (M). |
| 900 | KOEZ | TX | Hamilton | - | Spanish (M). |
| 910 | WNEZ | CT | New Britain | - | Ex-WRCQ with standards, now EZL(M). |
| 920 | KDES | CA | Palm Springs | - | Adult standards (M). |
| 920 | KQLO | NV | Reno | - | News, talk (M). |
| 940 | WADV | PA | Lebanon | - | AC, oldies (M). |
| 950 | WJDK | VA | Richmond | - | AC, News, information (M). |
| 960 | KZZY | CA | Apple Valley | - | Soft AC (M). |
| 960 | WBSY | MD | Salisbury | - | To be WLWV, oldies (M). |
| 960 | WFIR | VA | Roanoke | - | News, talk. (M). |
| 1010 | KSPL | CA | Thousand Palms | - | Silent until July (M). |
| 1030 | KBEQ | MO | Blue Springs | - | SMN Z-Rock (M). |
| 1060 | KFIT | TX | Lockhart | - | Religious talk (M). |
| 1080 | WVCC | FL | Coral Gables | - | All brokered variety (M). The "Voice of Coral Gables" becomes the voice of anyone who wants to pay for it (TF). |
| 1120 | WHTT | NY | Buffalo | - | Oldies // FM (M). |
| 1120 | WQXM | GA | Gordon | - | Soft AC (M). |
| 1150 | KEZX | WA | Seattle | - | Now BRN Business News (M). |
| 1190 | WHUM | PA | Hughsville | - | Transtar CWM (M). |
| 1230 | WFAS | NY | White Plains | - | AC, lots of news and info for Westchester County (TF). |
| 1230 | WKBO | PA | Harrisburg | - | CNN News (M). |
| 1230 | KERV | TX | Kerrville | - | EZL (M). |
| 1240 | WROV | VA | Roanoke | - | Oldies (M). |
| 1270 | KDJI | AZ | Holbrook | - | SMN Oldies (M). |
| 1270 | WKHQ | MI | Charlvoix | - | BRN Business News (M). |
| 1280 | KKAL | CA | Arroyo Grande | - | CWM (M). |
| 1290 | WDEC | GA | Americus | - | SMN Heart and Soul oldies (M). |
| 1300 | KPTL | NV | Carson City | - | AC, oldies (M). |
| 1300 | WXPX | PA | West Hazelton | - | AC, ABC Talk (M). |
| 1310 | WJRA | AL | Priceville | - | Gospel (M). |
| 1320 | WLQY | FL | Hollywood | - | All brokered variety (M). Was just another of many Spanish outlets in the Miami market (TF). |
| 1340 | WITS | FL | Sebring | - | MYL (M). |
| 1360 | WXPQ | AL | Jasper | - | AC, Info (M). |
| 1370 | WBVE | AL | Calera | - | CWM (M). |
| 1400 | WAVD | AL | Decatur | - | AC, oldies (M). |
| 1400 | KVOE | KS | Emporia | - | CWM (M). |
| 1400 | WRAP | PA | Williamsport | - | CNN Newsss, talk (M). |
| 1400 | KMLA | TX | Texarkana | - | CNN News, talk (M). |
| 1450 | KATE | MN | Albert Lea | - | Transtar AM Standards (M). |
| 1460 | WIQN | AL | Phoenix City | - | News, ABC Talk (M). |
| 1490 | WTVL | ME | Waterville | - | AC // FM (M). |
| 1500 | WBZI | OH | Xenia | - | AC (M). |
| 1510 | KTID | CA | San Rafael | - | New age // FM (M). |
| 1550 | WSHN | MI | Fremont | - | CWM // FM(M). |



1550 KWBC TX Navasota - SMN Gold oldies (M).
 1560 WINV FL Inverness - CWM (M).
 1560 KEYJ TX Abilene - CHR (M).
 1560 KEGG TX Daingerfield - Silent (M).
 1570 WHLP TN Centerville - To be WYXE, CWM (M).
 1580 WCCF FL Punta Gorda - News, talk (M).
 1590 WZRX MS Jackson - MYL (M).
 1590 KRQX TX Mexia - CWM // FM (M).
 1590 KVGB KS Great Bend - CWM // FM (M).
 1600 WPCD PA Elizabethtown - Drops REL for AC (M).



And that is it...lots of changes. Two interesting trends...who said that network radio is dead? Look at the stations here that are eliminating on air staffs in favor of music from satellites. And some stations that have carried religion for years are dropping it for AC or oldies. Even religion has reached the saturation point. And, surprise, two Miami market stations are dumping their Spanish formats for a hodgepodge of whoever buys what. Even ethnic programming can become saturated. All for now, with gratitude to the M Street Journal who, in effect, gave us a column this time. Thank you !!!!!

73's

7y

Radio Roundup ... by Pete Kemp

WRQC-910 has changed its call letters to WNEZ. They are currently programming soft music like their FM sister WRCH-FM. Both stations will fine tune their formats on July 3rd introducing more vocals and popular musical selections to attract a younger audience.

Advertisers are taking a much closer look at the programs they are sponsoring. While TV has been subjected to this pressure of late, the ABC Radio Network has recently aired a Barbara Walter's special on the controversial subject of abortion. The advertisers stayed away, but ABC said they would NOT be intimidated airing the show anyway.

The White House has put forth the name of Alfred Sikes to be the new F.C.C. Chairman.

With recent events in China fresh in our minds, it is interesting to note that during the June 2nd to 11th period the CBS radio Network issued 116 special on-air reports.

Lee Coffee has returned to the WEW-AM fold in St. Louis...The oldest affiliate of the NBC radio Network, WGY, in Schenectady, has decided to sever its ties and join up with the CBS radio Network effective September 18th.

Jon Bauman, "Bowzer" of ShaNaNa fame, will host a new syndicated 2-hour radio show titled "Bowzer's Golden Oldies Countdown" commencing this October.

WGST, in Atlanta, is currently simulcasting on both 920 and its new frequency 640 KHz. That should temporarily boost their ratings.

WFIL has dropped its 2-yr programming of satellite fed oldies to simulcast its FM sister WEAZ's soft rock format.

Loyola University has sold WWL-870 in New Orleans. It is Louisiana's oldest radio station having gone on the air in 1922.

WDGY will be the flagship station for an 80-station net to handle the Minnesota Timberwolves professional basketball team games beginning in the fall.

Al Ford, WFLA's Helicopter Traffic Reporter, and a former Tampa Police Officer, reported seeing a UFO while on the air May 4th.

WISN's sports director Bob Dolan is hosting a weekday sports-talk show from 6 to 7 p.m., moving Sally Jesse Raphael to the 7-9 spot.

WLZR will carry all 11 Norte Dame's football games in the Milwaukee area.

Domestic DX Digest - East

William Hale
 734 Burluson
 San Marcos, TX 78666

DX Catches in the Eastern U. S. and Canada, with 24-hr. ELT

MEDIUM WAVE ramblings

- Sure enjoyed the brief telephone call from B.B. McClurken who was passing through town on June 19th. A 'Silent' member for many years, B.B. promised me he'd start reporting his DX from his home QTH in Irving, TX. Anyone passing through or by San Marcos on I-35, don't hesitate to call and say 'hi'. Or, maybe we can get together over a cold one?! Phone number here is 512-392-0082. Long distance calls, prepaid only please. Charles Reh calls pre-paid, and it only costs him his beer money, hi. See UNIDs below, for one of the things we talked about.
- Well, I've gotten a new 'toy'. I finally bought a scanner, a Realistic PRO-38 portable. It's a little different than listening to MW, but still fun. Anyone who is into 'scanning' and can offer some tips on how to get more out of the VHF-UHF bands, I'd like to hear from you.
- I asked for suggestions last time on how to improve/change the column, and I have before me one to print full address data of reporters. I believe HQ has some policy about not printing addresses, due to a lawsuit several years ago. Musings prints addresses, so how 'bout this...I'll check with DE BOSS, and get back to this subject next month. OK? Another suggests to divide the column into three major groups, Midnight to Dawn, Dawn to Dusk, & Dusk to Midnight instead of what we have now. Well, what's dawn? 0541? Dusk? 1908? I'll put that up to a vote of contributors. Let's hear from you on that one. Then again, if I could get the majority of reporters to divide their loggings into the categories...
- Welcome back to the NRC...Mike Hardestar, USN. On his way overseas, he was in Portsmouth, Virginia to DX. The results appear this issue.
- When submitting Graveyard Achievements, please alphabetize by state & city. Due to time constraints here, I can no longer accept the GY lists unless they are sorted in this manner. Others will be returned. Remember, you have only your list to deal with; I have several.
- If you submitted some loggings, and you don't see them here, chances are you failed to include "time" data. As noted in prior issues, loggings will NOT be printed without date and time data (certain circumstances excepted), as these are important parts of the logging. Also, please use 24 hour clock and convert to ELT, arrange your catches in the groups seen here, and get 'em in directly!!
- MY next deadline is: AUGUST 5th, which is the last issue before the Convention '89. Speaking of that, I still have no concrete plans to go, but hope I can make it, and see YOU there!!

SPECIAL

- 630 KDWB MN ST PAUL - 6/19 0220 with satellite OLD; change in format & MM sked as shown in log; hrd with CFCC on rare SP (CR-ON)
- 980 WLWV MD SALISBURY - 6/11 0658-0725 good with mx like Close to You, Solitary Man; local nx, wx; a local here; mx: WSBY (HH-MD2)
- KZIM MO CAPE GIRARDEAU - 6/20 0505 good, ending nx with non-ID The news authority, 960 KZIM; very early sign-on or AN; at any rate, a change in sked as shown in Log (CR-ON)
- 990 WIVK TN KNOXVILLE - 6/7 0158-0243 fairly good with C&W mx, wx, Midnight Ride with WZZD QRM; in most AMs battling with WZZD (HH-MD1)
- 1000 WLUP IL CHICAGO - 6/12 on AN this MM to give me a scare; however, off each MM since; may have stayed on to pick up WLS's listeners (all 3 of 'em) since WLS had a rare SP this date (CR-ON)
- 1390 WBLL OH BELLEFONTAINE - 6/18 1500 with new CL and format of C&W mx; hrd with WPHJ/WNLF nulled but hvy splash from WJLB's preacher & WRKG's polka; ex: WPKO (CR-ON)
- 1510 WHBT MI JACKSON - 6/15 2107-2115 sign-off; noted with new format of C&W mx & ID7he country has come home to the HeartBeat on WHBT, Jackson; also, this one has a PSSA that is used from JACKSON LSS (when earlier than Nashville's) 'til WLAC's LSS (a maximum of 30 minutes) (CR-ON)
- 1550 WOKJ MS JACKSON - 6/18 0525 under CBE OC & over WCCZ with ADR & non-ID K-Rock in Jackson, WOKJ; thought they recently switched to C&W (CR-ON)
- 1580 KTSS IA DAVENPORT - per 6/5 Broadcasting, stn has been sold to Valley Ministries Ltd for \$70,000; these are the same folks who own REL FMer KBQC-93.5, so apparently they did raise enough \$\$\$ (DS-WI)



1400AM STEREO

- 580 UNID ?? - 6/17 0605 fair with end of of SNN nx; C&W mx noted before & after newscast; looped N/S; Log sez WBIL Tuskegee, Al is only stn on

UNIDs AND UNIDs Id

channel on the SMN, but I seem to think that this wasn't them; ideas, anyone? (RD-IA)

800 UNID ?? - 6/4 0108 sign-off with CL sounding like WQVR; nothing similar in Log; has somebody changed CLs, or maybe using FM CLs? CKLW off 'til 0150; further review of tape revealed what sounded like owned by the ? Twin Cities? B' Casting Company & possible voice-over of different CL @ end of sign-off annct (CR-ON)

960 UNID ?? - 6/21 2330 poor with ad for a Ford dlr in Stockdale, Missouri and final wrap-up of KC Royals BB game (SA-MB) (Barry Finkel's Sports Networks listing (Issue 27) shows 2 980's carrying the Royals, KMA-IA and KNEB-NE. KMA's pattern favors your QTH-Ed.)

1070 CHOK ON SARNIA - definitely Wally Wawro's unID of 2/15 (Issue 23), as hrd the ad for Northend Appliance Center at 635 Cathcart Blvd in Sarnia (CR-ON) [Tentatively IDd in Issue 25-Ed.]

1140 UNID ?? - 6/10 0548 poor with NOS/EZL mx Volare; looped SE; faded @ 0554 (SA-MB)

1160 UNID ?? - 7/2 0110-0120 noted what I 1st thought was Jamming (USA vs Cuba) with "hash"-like noise often hrd on SW, under hash; recheck @ 0225 & frequency clear; have previously noted steady (fair level-as in not local) tone here during early afternoon (1200-1400 local) about 6/25; is there a CP here?? jamming?? What?? (MH-VA)

1200 UNID ?? - 6/9 2316 noted ID: The stn that gives away money and plays all the hits, Energy 1200; who is this? (WAW-RI) (Easy. CFGO Ottawa. See 1200 Unids Issue 25-Ed.)

UNID ?? - 6/11 2145-2205 with instrumental songs from the 30s & 40s & no ads or anncts except @ 2201: This is ??? AM radio; this has been hrd a couple of times before with weak but steady signal and is about 800 Hz high of 1200; loops N/S; hrd again 6/23 1915 about 2 hrs before LSS so is probably semi-local; I suspect a northern Ohio pirate; only noted on weekends (CR-ON)

1320 UNID ?? - 6/29 2143 fair with Chicago White Sox BB (RD-IA)

1390 ?KRRZ? ND MINOT - 5/29 0110 goes with TTs of different or varying pitches; also OC @ 0145-Talknet; 0152 TT again; 0200 beeps @ 1/second; 0203 Harry Chapin song to 0204, then TT to 0207, rest of Chapin song+Talknet; never IDd (SA-MB)

1400 WELL MI MARSHALL - this is the mystery WELL from Wendell Ford's 1280 logging last issue; they apparently changed CLs & cities (ex:WKNR, Battle Creek) many moons ago, right after the new Log was published and both Wendell and the editor must have missed the AMS announcement (CR-ON)

1450 UNID ?? - 6/18 0500 W (C?) O (B?) SID+MBS Nx; with possible lite rock B4 ID; looped south; poor (SA-MB)

1470 UNID ?? - 7/2 0208-0218 with fade-up of C&W mx, ment of Cajun Country & Star Country, ad for Rod/Roth? Richard's & PSA from Atty General for/"against" drunk driving; WXXW Weather faded up with clear ID during a song, then back+mush; ideas? (MH-VA) [Well, KLCL Lake Charles, LA (bayou country) is listed as C&W. Star Country sounds like it's off the bird. Anyone else??-Ed.]

DX/EQUIPMENT TESTS

1000 WTAK AL HUNTSVILLE - 6/5 0215-0255 (tune-in/tune-out) with ET of ROK OLD mx; sounded like IFM or playing tape from RS since annct The Domino's Pizza/Coca-Cola Classic Rock Hour was given several times; full ID @ 0247: This is WTAK, Huntsville, Alabama, testing this morning, thirty-five hundred watts at one meg; signal ran abruptly from XLNT to poor and back again, perhaps due to pattern/power switching (CR-ON)

TIS & OTHER

530 TIS WI POYNETTE - 6/4 all afternoon very poor with construction info, ment of I-84, Hwys 73, 51 & 12/18; too weak to completely ID from home, but visit to XR site abt 40 miles away verified this is what I hrd (DS-WI)

TIS WI WISCONSIN DELLS - 6/4 even weaker than, and mixing with, above; this one seems to be sponsored by Circus World Museum in Baraboo; a visit to the Dells showed it carrying continuous loop of museum ads (DS-WI)

1370 TIS VA MC LEAN - No Date!! 1990-1940 with Tyson's Corner Center Radio; good in Center but lost quickly after getting out on hwy; info on store hours, parking, security, etc; One of the Nation's Premier Shopping Centers (HH-VA)

MIDNIGHT TO MIDDAY

540 WWCS PA CANONSBURG - 6/10 0027-0109 XLNT, well over CJSB with annct for WWCS Day at the Three Rivers Arts Festival (TC-NY)

630 KDWB MN ST PAUL - 6/18 1025-1036 weak with OLD by Argent, The Kinks, Chuck Berry, & The Troggs; non-ID: K-63, The Twin Cities' Oldies Stn (RD-IA)

740 WDFZ TN TULLAHOMA - 5/21 0420-0430+ very good with OLD; 0426: WDFZ Tullahoma-Manchester ID; frequent 2-74 non-IDs; with unID OC nulled (DS-WI)

790 WWAZ RI PROVIDENCE - 6/3 0208 just over CKSO with WTAR nulled and CKLW off; must have missed a format change 'cuz I was expecting BBD, but they had CLA mx (CR-ON)

800 WLAD CT DANBURY - 6/3 0306 with CKLW off; stn promo by female giving Radio 80, WLAD non-IDs; after a long static burst, Larry King was doing his thing; mixing with unns CUNAD/CHAB/WKEE & unID OLD which turned out to be KXIC; my 1st catch on 800 since 2/28/74 (CR-ON)

KXIC IA IOWA CITY - 6/3 0308 with CKLW still off; eastern stns had faded & was all alone with 60s OLD saying: The great oldies you grew up with, Classic hits for Eastern Iowa, AM 800, KXIC (CR-ON)

990 WWCH MI YPSILANTI - 6/5 0525-0530 poor with end of Focus on the Family pgm+annct WWCH 990 AM, please mention our call sign when writing this program+contemp REL mx (DS-WI)

CBW MB WINNIPEG - 6/18 0108 Lee Major with Red River Country C&W pgm over WIVK and possibly WEEB (HF-MI)

1050 CHUH ON TORONTO - 5/21 0520-0530+ fair, with AC; 0521 Lighting Unlimited ad+wx, hi of 23T, currently 12T @ Younge St & St Clare Avenue; un, but rare (DS-WI)

1070 CHOKT ON SARNIA - 5/21 0510 poor, under nulled local WT50 with CHR; ID sounded like CHOK, but too much WT50 QRM to verify (DS-WI)

1140 KR5R NV NORTH LAS VEGAS - 6/10 0553 fair with The Crusher ID in metallic voice+hard ROK (SA-MB)

1160 KSL UT SALT LAKE CITY - 6/12 0415 good with Larry King, mixing with R. Taino tonight (SA-MB)

1230 WJBC IL BLOOMINGTON - 5/27 0445 fair with AM 1230, WJBC non-ID+lite ROK mx (SA-MB)

WHRZ IL MOLINE - 6/5 0539 fair+good with ...on WHRZ, Quad Cities' Classic Rock, WHRZ, Quad Cities' First & Best..., & AM 1230, the Quad Cities' Oldies on WHRZ annct; OLD mx (DS-WI)

KWNO MN WINONA - 6/4 0530 fair with KWNO Minnesota Twins Contest promo+C&W mx; must be 24 hours, now; MN #97 (SA-MB)

KKUL MT HARDIN - 6/4 0530 fair with 95-5 KKUL non-ID+OLD; ex:KBSR; new; MT #34 (SA-MB)

1240 WWCO CT WATERBURY - 6/10 0009 with ROK mx, WWCO-Hit Radio slogan; poor signal; TA was too loud to hear it (WAW-RI)

1260 WWDC DC WASHINGTON - 7/2 0130-0135 with song Guantanamo+AM 1280, WWDC non-ID & Music of Your Life promo; poor, with co-channel QRM (MH-VA)

1270 WKBF IL ROCK ISLAND - 6/14 0108 with wx 4Cast, CL, Crystal Gayle song; under a partially-nulled WXYZ; this one had me goin' for a while as I recalled hearing that CL somewhere else; I finally recalled it was a defunct TV stn in Cleveland; no wonder I couldn't find it in my DX Log (CR-ON)

1320 WFHR WI WISCONSIN RAPIDS - 6/24 0815 fair with Fool on the Hill+ID & local ads (RD-IA)

1350 WRAP VA PORTSMOUTH - 6/7 0141 with loud non-ID over WSLR using bass-voiced annct and echo effect, then nothing; may have been an ET (CR-ON)

1360 WHBG VA BRIDGEWATER - 5/9 0040-0116 well over WDRC, great for 25 watts; WHBG in the Shenandoah Valley (TC-NY)

1390 WFBL NY SYRACUSE - 5/19 0129-0200 XLNT, mixed with WMZQ; The MoYL returns to Syracuse on May 22nd (TC-NY)

1400 WSAW MI SAGINAW - 6/12 0503 fair, with 14 WSAW Saginaw ID in a mess; new, MI #54 (SA-MB)

1430 WNJR NJ NEWARK - 7/2 0140 with concert (?) promo & ment of ...on WNJR; re-check @ 0200: 65 caught single ID as WNJR New York+mx [sure they didn't say New-ark sloppily?-Ed.]; poor with fading (MH-VA)

KBRK SD BROOKINGS - 6/24 0845 fair with sign-on & ment of studio & XR QTHs (RD-IA)

1440 WROK IL ROCKFORD - 6/24 0712 good with end of wx 4Cast+ID & Stuck With You by Huey Lewis & The Nx [Oops, that's News-Ed.] (RD-IA)

WWGT ME WESTBROOK - 5/21 0132-0205 great over WFTQ with OLD, and #1 G98 in Portland (TC-NY)

WCHB MI INKSTER - 6/18 0020 with Black Gospel up from jumble after local WBCM sign-off (HF-MI)

1460 WCMB PA HARRISBURG - 7/2 0145-0200 with 60's OLD; sounded like annct's name was Pete James; ID @ :00 as WCMB Harrisburg-Lebanon-Carlisle+Petula Clark song; moderate fading (MH-VA)

1470 KILS KS LIBERAL - 6/30 0832 weak with SSB & sign-on, under KERE (RD-IA)

1490 WDBQ IA DUBUQUE - 6/12 0430 with NOS mx, & Dubuque's best mx is on 1490, WDBQ; good (SA-MB)

1540 WSMI IL LITCHFIELD - 6/30 0855 fair with agri wx forecast for Southern Illinois+ad for Farmer's Week magazine (RD-IA)

1550 KSFT MO ST JOSEPH - 6/12 0111 after CBE sign-off and all morning with C&W mx and A1 nx @ :28; very good @ times, may have operating on day pattern (CR-ON)

1570 WFUR MI GRAND RAPIDS - 6/5 0545 fair with PSA on Social Security # for kids, 15 'til 7 TC, ID+wx, contemp REL mx (DS-WI)

1990
WDLCL

WBUX PA DOYLESTOWN - 5/7 0121-0153 XLNT, no CKLM or CFOR with Your official Bucks fever 89 stn (TC-NY)
 1580 WEAM GA COLUMBUS - 6/21 0600 very good with sign-on (RD-IA)
 WVKO OH COLUMBUS - 6/9 0101-0120 fair with UC, 16 WVKO (TC-NY)
 1590 WWCW PA HONESDALE - 6/12 0003-0105 good with Wayne County's Country (TC-NY)

MIDDAY TO MIDNIGHT

WJDA
 RADIO 1300 AM

530 CJFT ON FT ERIE - 5/2 2224 with Peterborough Thunder HKY; ad for Athletic Warehouse (HF-MI)
 570 WMCA NY NEW YORK - 6/3 2255 with Yankees BB, Brooklyn ads; over/under WKBN; 1st-timer here! (HF-MI)
 590 WAFB FL CLEWISTON - 6/4 2159 with syndicated Solid Gold Saturday Night & dual AM/FM ID; All Hit Country was weak but all alone with CKEY nulled; CKWW-580 sloop minimal for a change; 1st catch on 590 in over 14 years (CR-ON)
 WKHX GA ATLANTA - 6/11 2211 with C&W mx & non-ID as Atlanta Country Radio, Kix-101.5; was nicely over the Cuban with CKEY absent for a change; logged as WPLO back in '62 but this was 1st time with these CLs; looks like Sunday night for me to DX 590 with CKWW-580 doing REL TLK with little splatter (CR-ON)
 610 CHNC PQ NEW CARLISLE - 6/22 2319 fair in FF with POP mx, singing CLs; relays CHGM-1150; over/under WTVN, who is usually dominant (HF-MI)
 630 CFCC ON CHATHAM - 6/13 2012 with Favorites of the 60s, 70s & 80s, AM 630, CFCC; anncr Dave Walker; promo for CFCC Beach Blowout 4; ads for Chillington Insurance & Jackson's Drugs (CR-ON)
 680 WDBC MI ESCANABA - 6/14 2059 with Milwaukee Brewers BB; CFTR GRM (HF-MI)
 CFTR ON TORONTO - 6/14 2054 with MOR/POP mx; gave way to WDBC (HF-ON)
 700 WLW OH CINCINNATI - 5/28 1230-1300 fair, with rare, noon hour reception (DS-WI)
 720 WWII PA SHIREMANSTOWN - 6/9 2035-2045 all alone before being swamped by WGN; WNS, where we're playing the hits (TC-NY)
 800 KXIC IA IOWA CITY - 5/28 1240-1250+ poor in WDUX null with OLD; 1244 anncr Iowa City's First & Best... (rest wiped out by fade) (DS-WI)
 850 WAIT IL CRYSTAL LAKE - 7/4 2200 weak with late sign-off under KOA (RD-IA)
 WWJC MN DULUTH - 6/25 2153 fair with GOS mx, ID & promo for Sat. morning show We've Got The Power on the Christian Voice for the Northlands (RD-IA)
 890 WFKJ PA CASHTOWN - 5/13 1959 poor, with The uncompromising word of God, WFKJ, 890 AM in Cashtown (TC-NY)
 920 WMMN WV FAIRMONT - 6/18 2219 fair+ with The Tri-Cities' choice, WMMN & The fun's back on WMMN; MOR/POP Oldies; promo for Passport Jackpot (HF-MI)
 930 KSDN SD ABERDEEN - 6/19 1534 weak with ID & wx after ABC Nx (RD-IA)
 950 KWAT SD WATERTOWN - 6/28 2210 fair with Twins BB (RD-IA)
 970 WNIV GA ATLANTA - 6/10 2150 with EZL REL mx & anncr WNIV, the stn that plays your favorite Christian artists; mixing with another GA stn, Stereo Country, WVOP (CR-ON)
 980 WA2S SC SUMMERVILLE - 6/13 2138 with TC, ad for Summerville Aviation+ Tanya Tucker song; hrd with CFPL nulled & no sign of usual 2 & 3, WONE/WWRC (CR-ON)
 1070 KMOH MN MONTICELLO - 6/28 2200 over/under KFDI with Twins BB; ID during network pause; stn isn't listed on Twins '89 list, so I'm glad they IDd (RD-IA)
 1190 KWMB MN WABASHA - 6/22 2158 weak with sign-off under KKOJ's sign-off (RD-IA)
 1200 WBZY PA NEW CASTLE - 5/2 2328 with We're in the middle of 12 in a row at your home for the hits, WBZY, New Castle, PA; EZL OLD (HF-MI)
 WOAI TX SAN ANTONIO - 6/20 2236 with Astros BB & The sports leader of the great Southwest anncr (HF-MI)
 1270 WHLD NY NIAGARA FALLS - 6/7 2040 weak, with You've found the best place for great country songs (TC-NY)
 1280 KSOK KS ARKANSAS CITY - 6/15 2214 fair with Royals BB (RD-IA)
 1290 WIRL IL PEORIA - 7/3 2239 good in KOIL null with AC mx & promo for Paul Harvey on the only one for wax memories, AM 1290, WIRL (RD-IA)
 1350 WOYK PA YORK - 6/12 2129-2206 well over WNLK with Oldies 1350, WOYK (TC-NY)
 1360 KKBJ MN BEMIDJI - 6/25 2214 good under KSCJ with ad for Ozzie's Auto Salvage+C&W mx; hrd KK Country ID later (RD-IA)
 1380 WNRI RI WOONSOCKET - 6/9 2035-2045 ?18 watts; all alone; Pawtucket Red Sox IL game (TC-NY)
 1440 KQRS MN GOLDEN VALLEY - 6/28 2119-2126 with mx by Van Helen & Guns and Roses+KQ-92 ID; fair under Talknet (RD-IA)
 KDNT TX DENTON - 6/15 2303 good with Astros BB; ID during network pause; This is the sports voice for north Texas, KDNT, Denton-Dallas-Ft Worth (RD-IA)

1450 KYNT SD YANKTON - 7/2 2021-2029 fair+good in KWBE null with mx by Kiss & Heart+ID & wx (RD-IA)
 1470 WFSR KY HARLAN - 6/12 2055 with WOHO nulled; with C&W mx & Domino's Pizza ad; non-IDs as 1470 Country, WFSR; a super-strong WHLN-1410 gave me the incentive to try for this one, and it paid off (CR-ON)
 1490 KTTR MO ROLLA - 5/30 2258 fair with local ads in wx for Rolla & area + ID (SA-MB)
 1500 WOLY MI BATTLE CREEK - 6/2 2115 full-info sign-off concluding with an invite to join us tomorrow for another great day of Christian music and ministry on WOLY; was over WLQV, with WTOP in 3rd place (CR-ON)
 1560 WSLA LA SLIDELL - 6/20 2359 fair with Astros vs Giants BB, legal ID; WSLA, Slidell, AM 1560, your New Orleans source for Houston Astros baseball; not a peep out of WQXR, (CR-ON)
 1590 WMBE WI CHILTON - 6/4 1324-1330 very poor in WHIT splash with NOS, ad for record offer in care of WMBE Radio (DS-WI)
 1570 CHLO ON ST THOMAS - 6/17 2323 with MoYL; All day, all night, we've got the MoYL on 1570 CHLO; ads for Great Lakes Ford-Mercury dlr, Skinner's Clothing, & The Great Canadian Radio Caper; usually mixing with CFOR here (HF-MI)
 CHLO ON ST THOMAS - 6/22 2223 fair with Toronto-Oakland BB (RD-IA)
 1590 WTVB MI COLDWATER - 6/18 2205 OLD/MoYL+ABC nx @ .05; ID; 16-TV8; over/under WAKR, WOXN there too; poor (HF-MI)
 1600 CHNR ON SIMCOE - 6/18 2138 poor, with MOR POP mx; under/equal with WAAM (HF-MI)

REPORTERS:

DS-WI DOUG SMITH//Madison, WI//Superadio II
 TC-NY TONY CASAMASSIMA//Carmel, NY//Zenith portable with Palomar Loop
 SA-MB SHAWN AXELROD//Winnipeg, MB//R-70 + 3' loop, 100' LW, TUN-3
 WAW-RI WILLIAM WYLLIE//Prudence Island, RI//Fisher 418 barefoot
 CR-ON CHARLES REH//Leamington, ON//R-360A, S-40A, Samsario loop & Pioneer CT-80 taper
 HF-MI HAROLD FRODGE//Midland, MI//ICOM R71A + Trap Dipole
 HH-VA MIKE HARDESTER//Portsmouth, VA//ICOM R-70 + 20' random wire
 HH-MD1 HANK HOLBROOK//Dunkirk, MD//SP-800 with Colgrove loop
 HH-MD2 HANK HOLBROOK//Dunkirk, MD//SP-800 with 50' LW
 HH-VA HANK HOLBROOK//McLean, VA//'81 Toyota Rx + whip
 RD-IA RICK DAU//Oakland, IA//R-1000 + RW Loop



SOME ABBREVIATIONS & SPECIAL SYMBOLS USED IN DDXD-E

Tttest tones OChopen carrier TCtime check RSregular schedule QRMinterference
 QTHlocation SIDsinging ID CIDcode ID jxjingle mxmusic nxnews wxweather spa:
 sports HShigh school FBfootball BBbaseball HKYhockey BKBbasketball :OOon the
 hour #parallel with +to or into #stereo SSpansish FFFrench EEEnglish POL:
 political GOSgospel RELreligion or religious ACadult contemporary BDBbig band
 OLDoldies ROKrock 'n' roll CHRcontemporary hit radio ContChrcontemporary
 Christian C&Wcountry & western EZLeasy listening UCurban contemporary LK:Larry
 King APIAssociated Press Radio UPInited Press International MBSMutual
 Broadcasting System USRNUnited Stns Radio Net NPR: National Public Radio MRNMotor
 Racing Net MCRNMusic Country Radio Net IRNInterstate Radio Net LSRlocal sunrise
 SRSsunrise skip LSSlocal sunset SSSsunset skip SSBStar Spangled Banner

73. Bill

Domestic DX Digest - West Nancy Hardy
 2301 Pacific Avenue
 Aberdeen, WA 98520

DX Catches in the Western U. S. and Canada, with 24-hr. ELT

As you may have read in the last issue of DXM, I will soon be stepping down as DDXD-W editor. In September I'm going to have another baby! In 1986 it was difficult to edit & type two DX columns and take care of a newborn too. This time there will be an active three year old to watch also. As a result, I find it necessary to pass along the DDXD-W editorship. If you are interested, contact Paul. I'll continue to edit the column until a replacement is found. The next deadline is Aug. 12.

SPECIAL

1220 KBET CA SANTA CLARITA - 6/22 0241 & around the same time on subsequent nights. Fair signal under KDPC. 70's & 80's AdCon music, DJ Maggie McKay, lots of "12-20 AM Stereo" slogans. Although Canyon Country was mentioned in a couple of IDs, the legal ID was for the real city of Santa Clarita. Sounded like RS, but quick s/off at 0308 said "that concludes our testing for this evening...". Thought this one would be hard to hear, but now looks as if it will be a pest. (TRH)

1460 KZXR CA SALINAS - 5/10 0239 Bullitt Boys' "Money Money Money," station promo & DJ played slogans like "Not just another backwards rock and roll radio station" and "14-60 KZXR, your Rock of the Nineties." Testimonial from ex-KMBY-FM listener, back into the mush with unID metal music. Ex-KDON. Fair to very poor. (5P-HI2)

TIS

1610 WNP405 CA SAN DIEGO - Tu 6/6 0106 new TIS station signed on today (6/5) with tourist info for San Diego's Balboa Park. Taped messages updated each weekday morning list park events and predict parking availability. Also gives two phone numbers for park info--(619)236-5717 and (619)239-9628. Messages always begin with "This is the Balboa Park Travelers Information system, AM 16-10" and end with a call letter ID (95% sure of calls--the "F" could be an "S"). Male anncr some days, female anncr. others. They REALLY get out. (TRH)

UNIDS

660 ---- -- 6/7 0700 unID with relig. looping north, noted a couple of times since. Has KGDP gone 24 hours? (TRH-CA)

1170 ---- -- 6/7 0600 unID during KCBQ SP with C&W music, USRN news on the hour. I don't show either KVOO or WWVA as having USRN news. ID garbled, but seems to have a "WW" in it. Maybe much-wanted WWVA. Rats! (TRH-CA)

1180 ---- -- 6/10 0623 unID with BBD/NOS music. No ID heard. (TRH-CA)

1220 ---- -- 6/21 0312 unID with GOS, seemed to loop ENE. Way under KDPC. May be much needed KTSJ, but this will be hard to track down with KBET coming on. (TRH-CA)

1360 ---- -- 5/13 0413 someone running Ray Briem underneath BBD outlet (KPOP?). Very poor. (5P-HI3)

1500 ---- -- 6/29 0722-0744 unID with entire album sides of 1980's AdCon, under KSJX-KUMU-XEAI mix. Maybe one of the Texas stations with a format change? Female DJ. (TRH-CA)

MIDDAY TO MIDNIGHT

570 KQNG HI LIHUE - 6/25 1800 per DJ, station was being moved at this moment to the new QTH at 4271 Hale Nani Street, Lihue, 96766. (5P-HI)

MIDNIGHT TO MIDDAY

540 KNAK UT DELTA - Tu 6/20 0455 this is my unID with Larry King Show. ID "Providing Central Utah with music, information, and more, we are KNAK Delta." Into Mutual News. Not heard in some time due to XEWA's recent surge in signal strength. (TRH-CA)

570 WNAX SD YANKTON - 6/6 0117 extended weather forecast for SD, ND, IA & NE, then ID. Excellent. (DDM-AB)

790 KABC CA LOS ANGELES - 6/12 0804 ABC News, net ads, jingle, "Dodger Replay" with Ross Porter (highlights of yesterday's game with Cincinnati), Blue Cross of Southern Calif. ad. Fair then very poor, faint SS and het cochannel, local QRM. (5P-HI5)

KGHL MT BILLINGS - 6/2 0133 excellent, ID, way over KJRB, no sign of CFCW. (DDM-AB)

860 KTRB CA MODESTO - 6/12 0657 C&W song, female DJ with "8-60 KTRB and here's some Linda Ronstadt doin' some old Hank tune," before fading into a Mexican station. New. Poor to very poor. (5P-HI5)

890 CJDC BC DAWSON CREEK - 6/28 0145 in clear with ID, no sign of WLS. (DDM-AB)

950 KYGO CO DENVER - Sa 6/24 0330 on top of the channel tonight with usual IRN. Local XEGM/XEKAM, which continues to broadcast 2(1) satellite feeds on 3(1) frequencies (890/950/1010) took a short SP. (TRH-CA)

1010 CBR AB CALGARY - 5/13 0302 rising from the QRM with Canadian news, ID, provincial weather 0305. ID with xmtr site & address plus invitation to tune in to CBC Stereo, NA and off 0308.

1020 KTNQ CA New, AB #2. Very poor to poor. (5P-HI3)

LOS ANGELES - Sa 6/10 0320 totally off, leaving KYXE on top of KWIQ & KDKA. This station seems to take SP's on just about any night EXCEPT MM's! Returned about 0545. (TRH-CA)

KCKN NM ROSWELL - Sa 6/10 0320 also totally off, GREAT timing! Returned at 0509. (TRH-CA)

KDKA PA PITTSBURGH - Sa 6/10 0354 poor with local talk show hosted by man--topic was Pittsburgh's new city council. Phone number sounded like 333-9096. Several weather forecasts & a few IDs. Not enough for a report. New, PA #3. (TRH-CA)

KWIQ WA MOSES LAKE - Sa 6/10 0447 noted briefly under KYXE/KDKA mix with usual // FM. Male DJ. Very rare here, follow-up report still needed. (TRH-CA) (I just noticed this was listed as "Moses Lake." It should be "Moses Lake North."--NH)

KYXE WA SELAH - Sa 6/10 0327-0507 on top of channel, fair-good signal at times with usual Larry King, IDs, and "Kicksey Country" slogans. Also Sa 6/24 0340 fair, level with KTNQ in KCKN null. Surprising to hear them with KTNQ & KCKN both on. (TRH-CA)

1050 KEYF WA DISHMAN - MM 6/5 0157-0226 fair with XED. Old radio drama hour, recorded ID by woman "KEYF Dishman-Spokane" on the hour, into ABC-E news. MYL/NOS/BBD music, lots of "Key AM 10-50" slogans, also "all day every day, we play the classic hits." (TRH-CA)

1060 CPCN AB CALGARY - 5/10 0338 Eddie Money rock tune, DJ Dave Martin with non-ID "AM 1-0-6," local ads, CHR music by 38 Special, Tone Loc. Weather 0354 before XTC song. Fair, tent. KPAY underneath. New, AB #1. (5P-HI1)

1070 KNX CA LOS ANGELES - MM 6/26 0420 LOUD TT's. Didn't help me, since XEPRS-1090 was slopping from 1030 to 1130 tonight. (TRH-CA)

1110 KRLA CA PASADENA - MM 6/5 0310 totally off, leaving XEVS/KFAB mix. (TRH-CA)

1120 KPNW OR EUGENE-SPRINGFIELD - 5/13 0309 old AdCon music, ment. "Mike Harvey's SuperGold" is aired Sat. nights. Fair-very poor, unID underneath with variety show, KMOX? (5P-HI3)

1160 KSL UT SALT LAKE CITY - 6/12 0657 "Best of King," net ad, ID over music "11-60 KSL Salt Lake City" & CBS News, "Morning Information Crew" show with Tim Hughes, state & regional news from Ron King "on 11-60 KSL Information Radio." Very poor to fair, local QRM, deep fades. (5P-HI5)

1170 KCBQ CA SAN DIEGO - 6/7 0558 totally off, perhaps only the first or second SP they've taken since picking up SMN a year or two ago. Unfortunately returned at 0604. (TRH-CA)

1210 KGYN OK GUYMON - 6/7 0630 SEEMS to be the one here with IRN/Fred Sanders, unless I heard their ID on top of the IRN of another station. Now 24h operation? (TRH-CA)

1230 KLAJ NV LAS VEGAS - 6/11 0525 looks like another format change here. Now Spanish "radio exitos," devotes much of its schedule to English lessons & tips on how to gain U.S. citizenship! Ex-C&W, EZL, OLD, BBD/MYL. (TRH-CA)

1240 KNRY CA MONTEREY - 5/13 0244 delayed L.A. Lakers BKB halftime show (probably pushed back by A's baseball), local ads, one for print shop mentioning KNRY. Back to game, into second half. New. Very poor to fair over mess. (5P-HI3)

1290 KHSL CA CHICO - 5/13 0410 PSA for children's event in town of Paradise "from the Community Board from KHSL Chico," local ads, into C&W music. Very poor, local QRM. (5P-HI3)

1300 KMPS WA SEATTLE - 6/7 0623 not bad mixing with KYNO. C&W music // FM 94. KAZN who? hi. (TRH-CA)

1340 KATAT CA ARCAT - 5/10 0355 Fifth Dimension & George Harrison songs, 0403 slogan "The Oldies Channel" // KIKI-830, but local ID missed, Black oldie, then blip ID "13-40 K777." Lonnie Mack and Bee Gees tunes, 0413 blip ID & DJ talk. Poor-fair over/under mess. (5P-HI1)

1350 KSRO CA SANTA ROSA - 5/13 0402 NBC News, KSRO News with Consumer Wire report, back to Ray Briem at 0407. Fair to poor, o/u C&W, also co-channel whine with tones of high pitch (an ET?). (5P-HI3)

1360 KPOP CA SAN DIEGO - 6/29 0620 finally heard some Transtar "AM Only" NOS music here (used to run Talknet at this time). Have been listed as a Transtar affiliate for months, but have not been using the service. // KMPI-1470. (TRH-CA)

1370 KXTL MT BUTTE - 6/6 0132 good. Local weather, ID, then Larry King. (DDM-AB)

1400 KBFN CA BERKELEY - 5/10 0320 noted in passing with Business News format over mush. Didn't check KMNY-1600 for //. Was logged as KHLX & KRE. Poor. (5P-HI1)

KHTZ CA VISALIA - MM 6/5 0300 poor-fair with slogan/ID: "Smokin' Oldies for the South Valley, 14-K, KHTZ, Visalia," into CBS

- 14 News. Rare here, KEZC usually on top. (TRH-CA)
- 1440 KUHL CA SANTA MARIA - 6/12 0523 cart ID "KUHL Santa Maria-Lompoc-Grover City," back to Talknet. Very poor, local QRM. (5P-HI4)
- 1450 KTIP CA PORTERVILLE - MM 6/5 0252 with MYL & slogan "The music of your life on AM 14-5-Oh." Fairly rare, semi-local KOWA has dominated the past year after several years of KEST owning the channel. (TRH-CA)
- 1470 KXOA CA SACRAMENTO - 6/29 0625-0707 poor, fading under KMFI & XERCN OC. BRN feed // KSJX-1500 including news, sports, and a weather forecast for all the cities with BRN affiliates! Several IDs & "Business Radio 14-70" slogans. New, CA #211. Have been after this one for a long time. (TRH-CA)
- KWSL IA SIOUX FALLS - 6/2 0112 anncet. of upcoming program, ID. Good. (DDM-AB)
- KBSN WA MOSES LAKE - 6/3 0155 excellent. Sports, ID, then "Country West Scrapbook" (C&W music program) at 0200. (DDM-AB)
- 1490 KMET CA BANNING - MM 6/5 0244 fair with usual KBAS/KDB mix. Noted EZL/OLD format & slogans "1-49, music you remember, making your day just a little bit brighter." Although only 90 mi. away, this station is rare -- KBAS usually on top. (TRH-CA)
- CJSN SK SHAUNAVON - 6/3 0200 BN News, sports, then C&W music and PSA. ID. // to CKSW-570, CHR8-1280, CHAT-1270 (Country West Network). (DDM-AB)
- 1510 KGA WA SPOKANE - 5/13 0336 DJ with outro "on 15-10 KGA" and ment. it was Bea Arthur's birthday. ID, into Glen Campbell song, and key ring promo with U Haul. Not heard in several years here. Very poor, KUMU-1500 splatter. (5P-HI3)
- 1520 KSGO OR OREGON CITY - 6/28 0215 rock oldies, ID. Good. (DDM-AB)
- 1530 KFBK CA SACRAMENTO - 6/10 0427 with BADLY distorted signal all night. They must have hired an engineer from XEGM. Problem was fixed the next night. (TRH-CA)
- 1550 KKHIt CA SAN FRANCISCO - 6/12 0747 12 min. of classical guitar with orchestra. Finally at 0759 anncet. of selection then ad for Perfect Strings, "Northern Calif.'s largest singles club." More classical guitar. No ID given but certainly KKH from the format. Fair to very poor. Mixing with SS station & co-channel het, KNZS-1540 slop. (5P-HI5)
- 1570 CHUB BC NANAIMO - 6/28 0200 good in CKTA null. BN News, sports, local sports at 0205. (DDM-AB)
- 1600 KMVP CO LAKEWOOD - 6/28 0157 ID as "Y-108" & "KRXY" (i.e. KRXY-107.5) at 0200. Good. (DDM-AB) (Deane, didn't this one return to KRXY calls?--NH)

A LAST MINUTE FLASH TIP

- 540 KPUP CA SALINAS - 7/9 0900 first s/on, first day of regular operation. ABC News, then "Hound Dog" by Elvis. Format is a mix of country & oldies. Spotty here with KSP0-560 slop. Night signal not heard. Is stereo. Legal ID for "Salinas" instead of previously listed Carmel Valley. (PT-CA)

REPORTERS

TRH-CA/Tim Hall, Chula Vista, CA/ICF-2010, Radio West loop
DDM-AB/Deane McIntyre, Calgary, AB/Superadio
5P-HI1/Dale Park, DX'ing from Kailua, HI/Sangean AT5-803
5P-HI2/Dale Park, DX'ing from Kahalu'u, HI/ATS-803
5P-HI3/Dale Park, DX'ing from Waimanalo Beach, HI/ATS-803, Delco ETR car radio
5P-HI4/Dale Park, DX'ing from La'ie, HI/ATS-803
5P-HI5/Dale Park, DX'ing from Kane'ohe, HI/ATS-803
PT-CA/Pete Taylor, San Francisco, CA/Sony ICF-2010

STEREO
1460 KENO

The Answer Man

Got a question about radio? Send it to Russ Edmunds - 753 Valley Rd. - Blue Bell, PA 19422-2052. No question is a dumb question, and Russ will answer all, from basic to highly technical. Watch for the answer in DX News!

AM Pioneers May Homestead New Frequencies

--via Jerry Starr

Daytime AM broadcasters may soon get special FCC "homesteading rights" to pioneer new frequencies. Speaking Monday (4/10) at the BFMA Dallas convention, NAB General Counsel Jeff Baumann said the Commission plans to give first dibs on the expanded 1605-1705 kHz band to daytimers with state-of-the-art transmission facilities. Stations would simultaneously broadcast on both old and new frequencies until the new band catches on.

Bauman predicted the new policy would be announced just before the NAB's Las Vegas convention, but FCC Mass Media chief Lex Felker called that timetable premature. Felker said homesteading rights are "under consideration and there are some commissioners interested in that idea."

International DX Digest

Chuck Hutton

983 St. Charles Ave., #1

Atlanta, GA 30306

(404) 892-6211, before 2300 ELT

Foreign DX Catches. Times are UTC; for ELT, subtract 5 hours

Got a little note from Brian Vernon in which he says that the mine in Elsa, Yukon Territory has closed down and he has now migrated to Hinton, Alberta. The last of the veries are: Norway 630 local card for local pgm, Cuba 1160 R. Taino with lewttter in SS, no freq mentioned, Vietnam 1010 QSL from Overseas Service, report was for EE pgm, did not verie report for CC service, USSR 171 Yakutsk QSL card in RR, don't know if its a confirmation or not, report was for local pgm written in RR using a EE-RR dictionary. First local Russian QSL. Also USSR Moscow EE service QSL cards for 1215/1431 KHz.

Oh yeah, Russell Scotka alertly points out that 1260 Miami is ID'ing as Radio Suave sometimes and that recent R. Suave logs could be either Miami or YV.

- 153 ALGERIA 4/16 0151 best LW signal tonight, AA mx and talk to good peaks. (Connelly)
- 549 ALGERIA Oran/Les Trembles 4/16 0203 het, bits of AA audio. (Con)
- 600 COLOMBIA R. Libertad 0535-0623 fair to strong during absence of usually omnipresent Rebelde. Pgm of upbeat LA mx, male DJ Miguel, numerous TC's "en Colombia". 0620 TC as "la hora en Colombia es la uno y veinte uno.." into anncet during which the phone began to ring and Miguel hurriedly fired up a cart for "Diario Libertad" to answer it. Later ... la sintonia en Barranquilla, la costa Colombia, del mundo". Recheck at 0655 had Rebelde back on the air. (Scotka)
- 630 PUERTO RICO WQBS 5/29 0522-0533 good signal of salsa, latin pops, mentions of Puerto Rico, ID's as "La Gran Cadena" and enthusiastic "Q-B-S", both by SS male, jingles. (Scotka)
- 670 CUBA CM?? 0350 6/9 SS talk, noted R. Rebelde ID. Good signal // 600. (Wyllie)
- 670 CUBA CM?? 4/29 0406 R. Rebelde with sports event, good signal and was parallel with 600 KHz. (Wyllie)
- 700 JAMAICA Montego Bay 4/29 0328 reggae music, accented EE anncr, strong, well over WLW. (Wyllie)
- 820 CUBA CMJT Moron 6/10 0449 with Radio Progreso ID, fair sig. (WW)
- 830 CUBA CM?? R. Taino 0445 6/9 very strong signal, SS pgm at the time. (Wyllie) 5/20 0453 very strong signal on 830. SS/EE ID at midnight but did not sign off at this time. "Radio Taino, Tour Radio in Havana" ID. Also noted // on 1040 KHz with WBZ splash and on 1160 KHz. Fair to poor on 1160. (Wyllie)
- 891 ALGERIA Algiers 4/16 0210 fair w/woman in AA. (Connelly)
- 999 UNID (Morocco or Spain?) 4/16 0215 het on CKBW-1000. (Connelly)
- 1044 MOROCCO Sebaa Aïoun 4/16 0221 female AA vocal, low audio level on good carrier. (Connelly)
- 1100 CUBA R. Reloj 5/26 0155 strong, apparently replacing the Cadena Habana outlet here from the same xmtr site w/same pwr. Angulo weak in background presumably from Banés still. No other shifts of Cadena Habana noted as of 6/1 w/1120 as best signal. (Scotka)
- 1100 CUBA previous log noting change from Cadena Habana to Reloj should be disregarded. As of weekend of 6/10, Cadena Habana is back though power appears diminished though this could be related to conditions. (Scotka)
- 1386 UNID African? 4/27 0144 wildly fading carrier hitting good peaks, little usable audio. Few other TA's in at the time. (Connelly)
- 1521 SAUDI ARABIA Duba 4/27 0138 like a local! Loudest TA by a wide margin; annihilating WWKB. AA a-capella chant, AA talk. (Con)
- 1539 UNID 6/9 0424 noted with strong peaks with AA chanting. Long strange chants with low and high pitched voices singing. Over WPTR and CHIN at times. (Wyllie)
- 1593 WEST GERMANY Langenberg 4/27 0142 man in GG, very fluttery sig. (Connelly)
- 1610 ANGUIILLA The Valley 5/21 0515 "The Caribbean Beacon" ID. Ad for restaurant in Anguilla. Strong one minute, weak others. (Wyllie)

Mark Connelly - Yarmouth, MA
Russell Scotka - Margate, FL
William Wyllie - Prudence Island, RI

ICF2010, MWT2 tuner, phased LW's
HQ180A, Kowalski loop
Fisher 418

FM DX

Digest DX on the FM band, from April through September

Eric Bueneman

5002 Cross Ridge Ct.
Woodstock, GA 30188-4380

E-SKIP HOT IN JERSEY

Joseph Fela, 150 Robert Place, South Plainfield, NJ 07080

Recent DX (all times ELT): May 18 (Es) 2100 WRMB-89.3 Boynton Beach, FL w/ID and REL, May 19, trop (Tr) very strong to Providence and Cape Cod, fair to Boston plus 2048 CBAP-30 107.3 Yarmouth, NS with CBC French net; 2304 CI00-100.1 Halifax, NS ending British ROK program, used call as well as "C-100" non-ID; 2306 CBHM-106.5 Middleton, NS ending CBC news, into detailed Maritime weather. May 20 (Es) 1850 KYEZ-93.7 Salina, KS with "KY-94" and CWM; 1923 unID-92.1 with Satellite ROK, no local ads, "Foxy 92" non-ID, KFXI Marlowe, OK? (Call fits, it's a definite possibility-eb); 1931 KKNQ-92.5 Oklahoma City, OK with ID and BFL; 1950 KADA 96.7 Ada, OK with ID, 1951 KISR-93.7 Fort Smith, AR (had KMAG-99.1 by trop-eb) with call plus "Kisser 93" non-ID; 2045 KBE7-92.9 Tulsa, OK (This one was heard via trop in St. Louis-eb) with ID and BBD Saturday Night. May 30 (Es) 2043 KTGL-92.9 Beatrice, NE, call plus "The Eagle" ID, CHR, ex KWBE-FM, ex-KMAZ; (no time) KOAK-95.3 Red Oak, IA (Rick Dau country) with ID and ads; 2055 KQMA-92.5 Phillipsburg, KS with ID and PSA-didn't this one change call to KKAN-FM? I have a tape from last year where they were giving both the QMA and KKAN calls as their ID! (What actually happened was is that KKAN-1490 bought QMA and sold KKAN-FM 95.3 to a college, this per Bruce Elving-eb); 2100 KUMR-88.5 Rolla, MO (This used to top the channel, still does at times now that WSIE-88.7 is 24 hours with a non-directional antenna-eb) with a promo and ID; 2111 KINB-107.3 Poteau, OK with station contest and ID: (no time) WJBD-FM 100.1 Salem, IL ID with AM 1350/100.1 FM; 2127 KKUS-97.3 Springfield, MO with "US-97" non-ID; 2124 KEOK-101.7 Tamaquah, OK with ID and ROK; KRAV-96.5 Tulsa, OK with ID and ROK; 2141 KPDI-FM 101.3 Wichita, KS with ads and calls; 2153 KHLT-FM 94.1 Little Rock, AR with PSA, calls, "K-Lite 94" non-ID //KHLT-1010, ex-KEZQ (KEZQ now 100.3-eb). June 4 (GW/Tr) 1400 new WAAI-100.9 Hurllock, MD with ID and CWM, thanks to a Dave Schmidt (ex DDXD-East editor) tip. June 8 (Es) 1100 KIWR-89.7 Council Bluffs, IA with ID and CLA; 1125 KJJY-92.5 Ankeny, IA (ex-106.3) with ID, ads and CWM //KJJY-1390; 1133 KKRL-93.7 Carroll, IA with ID; 1232 KQKQ-98.5 Council Bluffs, IA with ID and ROK. Totals now stand at 1381 plus 344 call changes. **WANTED:** Canadian stamps for return postage. Will either buy or trade for U.S. stamps. I made this request in another club's bulletin TWICE without a response, to my dismay. Hopefully, NRCers are a lot friendlier and more helpful! By the way, the receiver here is a McIntosh MR-78. Feeding it are a pair of Channel Master Stereo Probe 9s, with ritors. Hoping to add a second MR-78 very soon. (I might need one, as WCHK-105.7 is five miles from me, hi!-eb) 73, Joe.

MARCHING IN WITH CAPE COD DX

Ernest Cooper, 5 Anthony St., Provincetown, MA 02657 (508) 487-9337



Thank you, Eric, for this fine new FM column, and to Mike and Paul for authorizing it! (You came up with the idea in '86, I didn't!-eb) The first E-Skip noted here was on May 13, with unneeded WJIS-88.1-FL in at 1230. Then, a newbie in WFCH-88.5-SC in from 1234 to 1253, end of opening. Friday May 19-Good tropes to the NE: CI0K-100.5 NB in solid 1034-1051, knocking out the usual WRCH-CT. Tuesday May 30-Thanks to a call from Joe Fela, I was alerted to a dandy opening. KAFB-88.3-AR in good with Southern Gospel, 2041-2058. Then, a second Little Rocker in KLRE-90.5 at 2101 with short talk on helioisemology, followed by a concert by the National Symphony Orchestra. Then, into the commercial band and to 93.9 where I heard the St. Louis Cardinals baseball game, with many local ads, from KSPQ-MO (ex KWPM-FM). On 93.7, heavy rocker KISR "Kisser" was pounding in for a report. On 94.3, a station IDing as "Kizmo" figured to be KZMO-MO, so a tentative to them, heard 2120-2156. Four "K" calls in one hour! The last logging on this date was WXID-94.7 Mayfield, KY, 2138-2143. On May 31, a strange opening, only one frequency affected-92.1! There, I had excellent reception from KTTN-FM Trenton, MO with Minnesota vs. Kansas City baseball, and 'tween innings, commercials, PLUS A RAIN DELAY. Tuesday June 6-Good tropes to the New York-New Jersey-Long Island area, plus the logging of WIOF-104.1 CT in local WBCN null, 0222-0259. Thursday June 8-Again, a Joe Fela call pointed my way to more E-Skip. KKEI-90.1-MO at 1107-1118 with a telephone call-in program. An unID REL on 88.5 (likely WCCA-eb) with Dr. James Dobson going off (Focus on The Family-eb) at 1129, then Southern Gospel. Then, one day after I purchased my airline tickets to Topeka (Going on Braniff?-eb), lo and behold, don't I pick up a Topeka FMer in KJTY-88.3, 1149-1231! I hope we visit this station on station tours. WCCA-88.5-IL heard, but not enough for a report, 1120. That's the latest DX from here; varies in from KSPQ and WXID, for a total of 520. Local stuff: New WFXR-93.5 Harwich Port, MA is on the air, another rocker, and another AMer, commercial FM #11 on Cape Cod. WBLQ-99.3 Block Island, RI is also on, and is also a rocker, on the milder side. And WFHN-107.1 North Dartmouth, MA is on, and is a heavy metal noise machine, and, of course, 24 hours a day. So, bye bye to 93.5 and 107.1. Class A good DX frequencies; also to 92.1 as WLAG-92.1 has gone AN NSP also. They're

(Cooper, continued) easily recognizable by their echo on voice at all times. It would seem that this is going to be a good E-Skip season from the start-up-let's hope so, and hear from all you other FM DXers here, what say? Forward-March!

MORE FROM THE GREAT WHITE NORTH

Morris Sorensen, P.O. Box 422, Port Carling, ON, Canada P0B 1J0 (6/21/89)

Since my last report, I've logged the following (new catches underlined); May 30 (Es) WGFH 91.5 Vidalia, GA at 2106, WWSF-98.1 Andalusia, AL ("98-Surf") at 2120, WHMA-FM 100.5 Anniston, AL at 2128, WPFM-107.9 Panama City, FL at 2130, WHHY-FM 101.9 Montgomery, AL ("Y-102") at 2134, WKRG-FM 99.9 Mobile, AL at 2135, WKJS 94.9 Mobile, AL at 2152, WSGY 100.3 Tifton, GA at 2154, WABB-FM 97.5 Mobile, AL at 2156, WMBV-91.9 Dixon's Mills, AL at 2200, WQID 93.7 Biloxi, MS at 2218. June 4 (Tr) CJBC-4 99.3 London, ON at 2004, CIGM-92.7 Sudbury, ON at 2044 with Blue Jays baseball, WBLK-93.7 De Pew, NY at 2051, WMJQ-102.5 Buffalo, NY (ex-WBEN-FM) at 2100. CKAT-FM 101.9 North Bay, ON at 2114 with Blue Jays baseball, WDCX-99.5 Buffalo, NY at 2128, WRMM 101.3 Rochester, NY ("Warm 101.3") at 2244. June 12 (Es) CBTL 90.1 Millertown, NF at 1859. Receivers used were a Sony ICF-2010, a Sharp FV-610 and a G.E. Superadio with various indoor antennas. 73, Morris Sorensen.

WE NOW GO TO BROOKLYN

Stephen J. Cunningham, 159 Gelston Ave., Brooklyn, NY 11209

I thought I would drop a line to report some FM DX catches from a good Tropo opening on the East Coast on May 20, 1989. Glad to see the FMDX back. (A BIG Lloyd Lindsay Young Thank You, Stephen!-eb) I haven't had any real AM DX in over 10 years. (Try Sunset Skip DX-eb) WCXL-100.7 Wildwood, NJ at 0205 with "South Jersey's Rock and Roll", WRFY-102.5 Reading, PA at 0135 with "Y-102 FM" non-ID and Adult Contemporary, WDRG-FM 102.9 Hartford, CT at 0026 with a "Big D-103" non-ID into OLDies (Solid Gold Rock and Roll), and 104.7 WKPE-FM Orleans, MA at 0053 with strong signal over WSPK with "The Number One Hit Music Station, WKPE-FM and AM Orleans/Hyannis, Cape-104" ID. Equipment used; ICOM IC-R7000 with AH-7000 omni antenna. Thank you and good DX, Stephen J. Cunningham-WDX2RPC.

MORE BEANTOWN DX

William Wyllie, 95 Peck Street, Franklin, MA 02038-2217



FM E-Skip, all heard May 30, 1989 around 2137: KWTO-FM 98.7 Springfield, MO at 2200 noted "Top Nine at Nine". First noted ID at 2137 as "The Ozarks' Only Hit Music Station", with good but abrupt fades in and out. WHOP-FM 98.7 Hopkinsville, KY noted giving station address and CWM. 98.9 KITMO Kennett, MO noted with ID and CWM. Hard to pick this station out from WHOP as they were both fading in and out at each other, both with CWM. (For this, you had to switch between 98.7 and 98.9. Also, KITMO is the FM side of KBOA-B30-eb) KITUX-98.9 Carthage, TX at 2200 (or so) with ROK, ad for a local high school, with many mentions of Watertown (not sure if it is the name of the high school or what), noted "Tux-99" slogan (thanks FM Atlas), first FM in Texas ever. All FM stations were heard at Franklin, MA on my Realistic Modulaire 2200 with indoor antenna.

LIVE FROM THE IOWA CORNFIELDS

Rick Dau, Rural Route 2, Box 64, Oakland, IA 51560-9630 (712) 483-2230

How are things in the land of peaches? (Fine, pal-eb) The FM column you're editing looks interesting, so I thought I would contribute some of my recent FM DX here, although I haven't done too much yet this summer.

| | | MIDNIGHT-MIDDAY | | | |
|-------|----|-----------------|----|-----------------------|--|
| 95.7 | tr | KHUM | KS | OTTAWA-5/14 0952 | good with "FM 95.7 KHUM Topeka-Lawrence" ID, then song by CSNY (Crosby, Stills, Nash and Young). |
| | | MIDNIGHT-MIDDAY | | | |
| 90.9 | tr | KUNI | IA | CEDAR FALLS-6/16 2330 | fair with song by 10,000 Maniacs, then ID and frequencies on which KUNI could be heard in Dubuque and Davenport. |
| 93.1 | tr | KKYA | SD | YANKTON-6/12 2329 | fair with ID and promo for a contest to name the best restaurant in Yankton. |
| 96.9 | tr | KRTT | IA | CLARION-6/20 2210 | good with ID and "Somebody" by Bryan Adams. |
| 98.1 | tr | KUDD | KS | KANSAS CITY-6/20 2224 | fair with "Peg" by Steely Dan, ID by YL DJ. |
| 104.5 | tr | KNOD | IA | HARTMAN-6/20 2310 | excellent with sign-off. |

(Dau, continued) (Rick also notes an unID on 99.5 with OLD by The Toys and heard something like "KKMA", will have to check my FM Station Address Book-eb) Coming to the convention in Topeka this year? (Nope, but I will be in St. Louis at the end of August-eb) Anyway, I'll close for now, and wish you good DX, though I imagine most of it will be done on the FM side (Most of my DX has been on the AM side this summer, see my entry-eb). 73s.

DX AND MEMORIES FROM MICHIGAN

Tom Sanders, 11953 Juniper Way, #1121, Grand Blanc, MI 48439



On Sunday evening, May 14, I heard two E-Skip stations between 2300 and 2340 EDT. They were KGNZ-88.1 Abilene, TX (snagged this one via E-Skip before KDHX came on in St. Louis-eb), a Contemporary Christian with music and promos for things like "Focus on The Family", and KQIP-96.9 Odessa, TX (more Texas radio and the big beat, as Jim Morrison (The Doors local) said) with a satellite Oldies format and NO call letter IDs. Fortunately, I heard a local spot right before I lost them. They ID as "97 Gold". I had two FM radios going, one on each frequency where there was some skip, and on the set I was recording from, I'd switch to the station that was the strongest. Naturally, my signal meter was going wild! Both stations would peg the meter for a few seconds in local-quality Stereo before fading, and bouncing back again, and so on.

I still have a C-90 (cassette) of Florida FM skip from June 7, 1982. Does anyone recall this memorable date in the history of FM DX? It's always a kick to read recent reports from hundreds of miles away for the same stations I heard at the same times. I wonder if anyone's FM logs go back to 1982. Good reception, Tom.

FOURTH OF JULY FIREWORKS IN GEORGIA

Bill Alisaukas, 7553 Hillside Dr., Douglasville, GA 30134-3332

Major Northeast opening on July 4. Per a tip from Joe Fela in South Plainfield, NJ, he was getting B-98.5 FM (WSB-FM Atlanta), I followed it with: 1720 WPLM-FM 99.1 Plymouth, MA way atop; 1730 WQRC-99.9 Barnstable, MA with many local ads and legal ID; WJRZ-100.1 Manahawkin, NJ-amazed this made it!; 1750 WEAZ-101.1 Philadelphia, PA way atop with many "Easy 101" IDs, local ads //WFL-560, also I think WCBS-FM 101.1 New York, NY right under!; 1808 WKNE-103.7 Keene, NH-blew me away! Of all places, weak, but no doubt with local ads and non-IDs; 1815 WTHH-102.9 Portland, ME (ex-WGAN-FM) with "FM 103" non-ID's, blew me away!; 1828 WQCR-98.9 Burlington, VT "Serving Vermont, New York and Canada", and held for the ID; 1832 WHP-FM 97.3 Harrisburg, PA with legal ID and local ads (right next to local WFOX!), 1838 WMLJ-95.7 Ellsworth, ME way atop with OLD; 1848 CFXL-95.5 Sherbrooke, PQ with French language; 1857 WROW-FM 95.5 Albany, NY with beautiful ID, weather and local ads, no WPLJ; 1901 CBV-FM 95.3 Québec, PQ with French language talk (This one is on the CBC French Net-work-eb); Finally, at 7:20 p.m. WKXZ-93.9 Norwich, NY with CHR, alone and nice (next to local WOXI-FM)-AMAZING! This is the best opening since moving down here two years ago! Have a great summer. Regards, Bill Alisaukas.

FM-FM SIMULCAST BEGINS

Eric Bueneman, 5002 Cross Ridge Ct., Woodstock, GA 30188-4380 (404) 924-7780 (prepaid)

WEKS-104.1 La Grange, GA is now a thing of the past. The station was traded for an AM-FM combination in Massachusetts. 104.1's new owners, New City Communications, also owns WYAY-106.7 in Gainesville, GA. Under new FCC rules, you can simulcast an FM station on another FM frequency if the stations are licensed to towns on the opposite sides of a large city. Since La Grange is southwest of Atlanta, and Gainesville is northeast of Atlanta, the FM-FM simulcast may take place. On June 30, WEKS became WYAI with C&W, and "Y-104" non-IDs. Two other FMs have come on; WALR-104.7 (ex-WAGQ) Athens, GA came on July 1 with an Adult Contemporary format and "Musicradio 104.7" non-IDs. This is the FM side of all-news WCNN-680 North Atlanta. Only two live DJs are on in drive times, otherwise it is automated. They are letting people decide what they want to air on WALR, similar to what KSTZ-105.7 Ste. Genevieve, MO did eighteen months ago. WCHK-FM moved to 105.7 on May 28, and it has killed FM DX here, to the point of buying an attenuator! WCHK-FM's transmitter site is on Old State Road 5 near Holly Springs, GA, and is easily seen from Interstate 575. Holly Springs is halfway between Woodstock and Canton. In St. Louis, KLTH-97.1 has dropped Jazz/New Age for CHR under new calls. More next month. I will have gone to St. Louis and have already looked at the KXEN-1010 facilities by the time you read this. Rumor has it that KSD-93.7 is planning to drop Classic Rock, stay tuned. 73 from KDX@STL/4.

Eric S. Bueneman

NRC AM Radio Log

The most up-to-date listing of domestic MW stations available, anywhere! 200 pages, three-hole punched, \$12.95 each, to U. S. NRC members; \$13.95 Canadian NRC members; others write.

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Domestic DX Achievements **Donald Erickson**
6059 Essex Street
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Domestic DX totals listed periodically in different categories

| YR | Up | Name | Location | TDH | SH | FH | TDI | ST | ET | TDY | SY | FY |
|----|----|---------------------|------------------------|-------|------|-------|------|----|------|-------|----|------|
| 69 | 78 | Richard Noel | Allen, no OK | 350 | 38 | 7 | 3 | 2 | 1 | 41 | 13 | 7 |
| 23 | 78 | Gene Allen | vic. San Francisco, CA | 3013 | 49 | 8 | | | | 2509 | 49 | 8 |
| 73 | | Mike Anderson | Louisville, KY | 600 | 38 | x 5 | 120 | 29 | x 2 | 33 | 22 | 1 |
| 38 | 78 | Roger Anderson | metro Washington, DC | 1017 | 48 | x 9 | | | | 1017 | 48 | x 9 |
| 64 | 78 | Kelly Andrews | NC & VA | 925E | 45 | x 9 | | | | 692 | 44 | x 7 |
| 63 | 89 | Ray Arruda | nr Boston, MA | 1292 | 47 | x 9 | | | | 972 | 47 | x 9 |
| 62 | 78 | Gary Atkins | Louisville, KY | 1360 | 49 | x 7 | 102 | 36 | 1 | 260 | 41 | x 4 |
| 74 | 82 | Bill Bergadano | New York City, NY | 719 | 38 | 5 | 250 | - | 4 | 105 | 37 | 4 |
| 24 | 78 | Steve Bezilla | central PA | 3000E | 48 | 8 | | | | 50E | 45 | 4 |
| 73 | 78 | Philip Boersma | western MI | 520 | 41 | 6 | | | | 50 | 24 | 3 |
| 62 | 78 | Jerry Bond | Rochester, NY | 785 | 43 | x 8 | 50E | 10 | 2 | | | |
| 26 | 79 | Joe Brauner | westcentral PA | 5519 | 50 | x 10 | | | | 3659 | 50 | x 9 |
| 59 | 78 | Linda Brodsky | vic New York City, NY | 374 | 35 | x 7 | 108 | 36 | x 6 | 43 | 26 | x 3 |
| 58 | 78 | Warren Brown | southeastern RI | 2000E | 47 | | | | | 1500E | 49 | |
| 77 | 78 | Kurt Brown | Bloomington, IL | 249 | 39 | x 3 | | | | 148 | 38 | x 3 |
| 77 | 79 | John Buehler | Toledo, OH | 591 | 43 | x 6 | 360 | 41 | x 5 | 1 | 1 | 0 |
| 81 | 89 | Eric Bueneman | metro St. Louis, MO | 315 | 38 | x 5 | | | | 233 | 34 | x 5 |
| 88 | 89 | Eric Bueneman | Woodstock, GA | 100 | 25 | x 3 | | | | 43 | 16 | x 2 |
| 81 | 89 | Eric Bueneman | MO & GA | 415 | 39 | x 5 | | | | 276 | 34 | x 5 |
| YR | Up | Name | Location | TDH | SH | FH | TDI | ST | ET | TDY | SY | FY |
| 73 | 78 | Lynn Burke | tidewater VA | 650 | 36 | x 6 | | | | 18 | 7 | 1 |
| 76 | 82 | Brian Bursack | Columbus, OH | 320 | 34 | x 5 | 19 | 15 | 2 | 6 | 6 | 0 |
| 74 | 82 | Rick Carr | Austin, TX | 1213 | 43 | x 7 | | | | 1199 | 43 | x 7 |
| 45 | 78 | Ken Chatterton | northern NY | 1845 | 50 | x 10 | | | | 1101 | 50 | x 10 |
| 70 | 78 | Weldon Childers | nw AL | 587 | 32 | x 3 | | | | | | |
| 31 | 84 | Peter Clarius | nr Elizabeth City, NJ | 2012 | 48 | 10 | | | | 1449 | 48 | 10 |
| 75 | 82 | John Clemmer | Peoria, IL | 500 | 37 | x 3 | 4 | 4 | | 10 | 8 | |
| 58 | 78 | Bill Coleman | Rocky Mount, NC | 2105 | 46 | 12 | | | | 456 | 46 | 10 |
| 32 | 78 | Ernest Cooper | Cape Cod, MA | 3601V | 48Vx | 10V | | | | 3601 | 48 | x 10 |
| 76 | 78 | Don Davis | Macon, GA | 580 | 39 | x 3 | 10E | 4 | 4 | 410 | 35 | x 2 |
| 78 | 79 | Mike Deitz | tidewater VA | 615 | 38 | x 5 | | | | | | |
| 55 | 78 | G. Harley DeLeurere | Hendricks, WV | 59 | 48 | x 10 | | | | 59 | 48 | x 10 |
| 62 | 86 | Marc DeLorenzo | eastern MA | 1117 | 45 | x 9 | | | | | | |
| 67 | 82 | Rich Eddie | Saint Louis, MO | 1726 | 50 | x 9 | | | | 1538 | 50 | x 9 |
| 62 | 81 | R. J. Edmunds | no NJ | 1545 | 47 | x 9 | 806 | 41 | x 8 | 263 | 42 | x 6 |
| 61 | 89 | Donald Erickson | Riverside, CA | 508 | 36 | 6 | | | | 247 | 31 | 5 |
| 72 | 78 | Eric Fader | New York City, NY | 800E | 38 | x 9 | 100E | 23 | x 4 | 20E | 7 | 2 |
| 61 | 78 | Joseph Fela | central NJ | 1861 | 49 | x 10 | 400E | 40 | x 7 | 1045E | 48 | x 9 |
| 81 | 81 | Jon Fimmel | westcentral ND | 101 | 29 | 04 | | | | | | |
| YR | Up | Name | Location | TDH | SH | FH | TDI | ST | ET | TDY | SY | FY |
| 70 | 78 | Karl Forth | vic Chicago, IL | 1771 | 48 | x 10 | 1077 | 48 | x 10 | 1088 | 48 | x 10 |
| 57 | 78 | Robert Foxworth | Long Island, NY | 1000E | 49 | x 10 | 400E | 44 | x 9 | 270E | 48 | x 7 |
| 70 | 86 | Stephen Francis | no TN | 2247 | 46 | x 7 | | | | 43 | 42 | x 0 |
| 57 | 78 | Art Fregeau | Northford, CT | 803 | 45 | x 10N | | | | 214 | 41 | x 7 |
| 63 | 78 | Ed Gehringer | W. Lafayette, IN | 300E | 36 | 7 | 30E | 10 | 5 | 1 | 1 | 0 |
| 75 | 78 | Michael Good | Boston, MA | 334 | 33 | x 8 | 6 | 3 | 1 | 8 | 5 | 0 |
| 76 | 87 | Steve Goozovat | Binghamton, NY | 535 | 36 | x 7 | | | | | | |
| 75 | | Dan Gradin | nr Gresham, OR | 589 | 39 | 6 | | | | 16 | 15 | 1 |
| 62 | 78 | Ira Green | Cincinnati, OH | 193 | 34 | x 4 | | | | 2 | 2 | 0 |
| 72 | 78 | Warren Greenberg | vic Boston, MA | 125E | 27 | x 6 | | | | 99 | 26 | x 6 |
| 60 | 84 | George Greene | Akron, OH | 743 | 45 | x 7 | | | | 119 | 29 | 3 |
| 73 | 78 | Brett Hanavan | vic San Diego, CA | 663 | 39 | 5 | 221 | 29 | 4 | 99 | 33 | 2 |
| 21 | 78 | Ross Hansch | southern WI | 1247 | 50 | 10 | | | | 75 | 40 | 1 |
| 64 | 78 | Greg Hardison | Atlanta, GA | 900E | 36 | 6 | | | | 42 | 19 | 5 |
| 60 | 84 | Bill Hardy | coastal WA | 846 | 40 | 5 | | | | 5 | 3 | 0 |
| 69 | 84 | Nancy Hardy | coastal WA | 778 | 40 | 5 | | | | 3 | 2 | 0 |
| 82 | 88 | Bob Harrison | northeastern NJ | 721 | 35 | x 7 | | | | 386 | 34 | x 7 |
| 64 | 77 | John Hathaway | central IL | 666 | 42 | 5 | | | | 309 | 40 | 5 |
| 70 | 82 | Harry J. Hayes | no PA | 1100 | 41 | x 9 | 502 | 39 | x 9 | 102 | 27 | 2 |
| YR | Up | Name | Location | TDH | SH | FH | TDI | ST | ET | TDY | SY | FY |
| 64 | 84 | Wayne Heinen | Colorado | 1105 | 49 | x 9 | | | | 988 | 49 | x 9 |
| 81 | 86 | John Herman | Vinita, OK | 763 | 37 | x 5 | | | | 234 | 35 | 4 |
| 74 | 86 | Jim Hilliker | Anaheim, CA | 525 | 35 | 5 | 300E | 35 | 5 | 181 | 31 | 5 |
| 69 | 84 | Mike Hogan | vic Chicago, IL | 722 | 45 | 10 | 302 | - | - | 41 | 24 | 1 |
| 46 | 89 | Hank Holbrook | Annapolis, MD | 2161V | 50Vx | 10V | | | | 2161 | 50 | x 10 |



Station Profile

A special feature concerning a unique station

Tony Fitzherbert

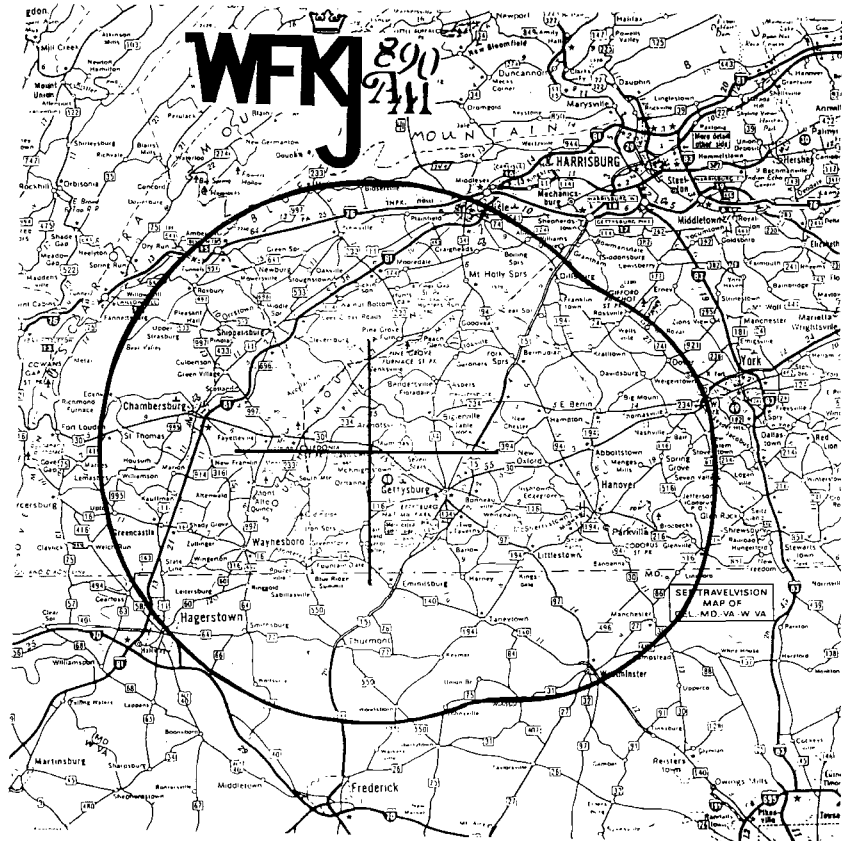
356 Jackman Avenue
Fairfield, CT 06430

STATION PROFILE: WFKJ - 890, Cashtown, Pa.

"Working for King Jesus"

A labor of love, and five years of planning and engineering came to fruition at 10:00Am on December 7, 1988, when America's newest Christian radio station, WKFJ, was signed on the air by Pastor Michael Yeager. WKFJ, at 890 khz, licensed to Cashtown, Pa, near Gettysburg, is the radio voice of the Jesus is Lord Ministries, International. The call sign means "Working for King Jesus", and the station carries many teaching programs, as well as contemporary Christian music.

The station transmits from sunrise to sunset using 890 watts' (!) power fed into a single 85 foot high tower, one of the shortest of such of the country. The tower is located in a marsh, allowing for excellent grounding. The non-directional signal covers much of central Pennsylvania and north central Maryland. WFKJ uses a 1953 model RCA BTA-1MX that has been reconditioned. The studio is equipped with Gates-Harris solid state remote consoles, and a vintage Gates RDC-10C relay type remote control. The studio is equipped with cassette decks and CD players.



Much of the construction of the studio building and the transmitter site was done by volunteer labor from the church's congregation. A professional engineer, Bryan Simmers, was employed at the end of October to handle the hookup and rehabilitation of the broadcasting equipment.

The FCC granted the license at the beginning of December. At that time, Pastor Yeager signed his radio ministry on the air, bringing quality Christian broadcasting to the Gettysburg area.

Since signing on the air, WFKJ's signal regularly can be heard in Central Maryland, Northern Virginia, and eastern portions of West Virginia.

Thanks are extended to William Cooley, a member of the NRC, and resident of Hagerstown, MD, who forwarded information on WFKJ to the editor, and to WFKJ CE Bryan Simmers who put the information together on the building of his station.

FCC RULE PRIMER

WBEE
All Jazz Radio

JOHN D. BOWKER, 14 CANOE BROOK DRIVE, PRINCETON JCT., NJ 08530

VI. STATION LOCATION AND IDENTIFICATION

In past installments, this series has dealt with some of the technical regulations confronting the AM broadcaster. This installment will deal more with non-technical issues, and will quote directly from selected Rule Sections. The following comes from Rule Part 73:

73.1120 Station Location

"Each AM broadcast station will be licensed to the principal community or other political subdivision which it primarily serves. This principal community (city, town or other political subdivision) will be considered to be the geographical station location."

73.1125 Station Main Studio Location

"Each AM broadcast station shall maintain a main studio within the station's 5 millivolt-per-meter contour (or other as described elsewhere in the Rules, Ed.), except AM Stations listed as synchronous amplifier transmitters ("AM Boosters")"

This does not mean, necessarily, that the station's signal must be heard without interference at the station's main studio. Among the exceptions to the Rule is one recognizing that it may be necessary to reduce power so much in some cases that, at the far side of town from the transmitter, the signals may not be well received. There are well known cases of this in Toledo, OH and Trenton, NJ among others.

73.1201 Station Identification

"(a) When regularly required. Broadcast station identification announcements shall be made: (1) At the beginning and ending of each time of operation, and (2) hourly as close to the hour as feasible, at a natural break in program offerings.

(b) Content. (1) Official station identification shall consist of the station's call letters immediately followed by the community or communities specified in its license as the station's location: Provided, That the name of the licensee or the station's frequency, or both, as stated on the station's license may be inserted between the call letters and station location. No other insertion is permissible."

"(c)(2) Simultaneous AM-FM broadcasts. If the same licensee operates an FM broadcast station and an AM broadcast station and simultaneously broadcasts the same programs over the facilities of both such stations, station identification announcements may be made jointly for both stations for periods of such simultaneous operation. If the call letters of the FM station do not clearly reveal that it is an FM station, the joint announcement shall so identify it."

- 0 -

The next installment of this series will be a reprint of the table of contents of FCC Rule Part 73 as it deals with AM radio broadcasting. Following that we will print the Table of Contents of Rule Part 74. Readers are asked to advise Headquarters of other Rule Sections not covered to date in this series in DX News that may be of interest.

HEAVEN'S PEACE PLAN - RADIO LOG

Edited by Charles Reh

The following is a revised list of stations carrying the program Heaven's Peace Plan which is hosted by Fr. Nicholas Gruner. This list was edited from one that appears in the *Patrol Crusader* magazine. The list in the magazine is arranged by state and province and shows the stations which can be received in each location. As a result, stations such as WWL, KXEL, WWVA & KRNV were listed dozens of times. Also, in the original, the schedules are given in the local time for each location. To make it more useful for DXers, I have rearranged the list by frequency and have converted all times to ELT. Stations carrying the program on FM and SW have been omitted.

| FREQ | CALL | CITY | TIME | DAY |
|-------|------|---------------------------|--------------|-----------|
| 540 | WYLO | Jackson WI | 1530 - 1545 | Mon - Fri |
| | WYLO | Jackson WI | 1800 - 1830 | Saturday |
| 730 | WACE | Chicopee - Springfield MA | 1230 - 1300 | Sunday |
| | WACE | Chicopee - Springfield MA | 0915 - 0930 | Mon - Fri |
| 770 | KPLA | Riverbank CA | 1530 - 1600 | Sunday |
| 800 | WSH | New Orleans LA | 2030 - 2100 | Sunday |
| | WSHO | New Orleans LA | 2000 - 2030 | Mon - Fri |
| | CKLW | Windsor ON | 0700 - 0730 | Sunday |
| 810 | CKJS | Winnipeg MB | 1300 - 1330 | Sunday |
| | CKJS | Winnipeg MB | 1230 - 1245 | Mon - Fri |
| 820 | WRFA | Largo FL | 1000 - 1015 | Mon - Fri |
| 870 | KIEV | Glendale CA | 1900 - 1930 | Sunday |
| | WWL | New Orleans LA | 2300 - 2315* | Mon - Fri |
| 880 | KRVN | Lexington NE | 2330 - 2345 | Mon - Fri |
| | KKKR | Conroe TX | 0930 - 1000 | Sunday |
| 900 | WFIA | Louisville KY | 0930 - 1000 | Sunday |
| 910 | KMJC | El Cajon CA | 2300 - 2315 | Mon - Fri |
| 940 | WKGW | Smithfield VA | 1730 - 1800 | Sunday |
| 950 | WROL | Boston MA | 0845 - 0900 | Saturday |
| | WROL | Boston MA | 1230 - 1300 | Sunday |
| | WROL | Boston MA | 1100 - 1115 | Mon - Fri |
| 1010 | KKEN | Festus - St. Louis MO | 1445 - 1500 | Mon - Fri |
| 1030 | WHIN | Maplewood MN | 0900 - 0930 | Sunday |
| | WHIN | Maplewood MN | 1115 - 1130 | Mon - Fri |
| 1090 | KAAY | Little Rock AR | 2145 - 2200 | Mon - Fri |
| | KAAY | Little Rock AR | 0530 - 0600 | Saturday |
| 1110 | WTIS | Tampa FL | 1330 - 1400 | Sunday |
| 1160 | WJJD | Chicago IL | 0930 - 1000 | Sunday |
| 1170 | WWVA | Wheeling WV | 1830 - 1900 | Sunday |
| | WWVA | Wheeling WV | 2030 - 2100 | Mon - Fri |
| 1190* | CJMR | Mississauga ON | 1215 - 1230 | Mon - Fri |
| 1220 | WRIB | Providence RI | 1400 - 1430 | Sunday |
| 1250 | CHWO | Oakville ON | 0900 - 0930 | Sunday |
| 1270 | WHLD | Niagara Falls NY | 1015 - 1030 | Mon - Fri |
| 1330 | WASA | Havre de Grace MD | 0745 - 0800 | Mon - Fri |
| 1410 | CFMB | Montreal PQ | 0730 - 0800 | Sunday |
| 1440 | CJOI | Wetaskiwin AB | 0045 - 0100 | Tue - Sat |
| | CJOI | Wetaskiwin AB | 1730 - 1800 | Sunday |
| 1450 | KBST | San Francisco CA | 1345 - 1400 | Mon - Fri |
| 1470 | CJVB | Vancouver BC | 1600 - 1630 | Mon - Fri |
| 1480 | WLEA | Hornell NY | 0830 - 0900 | Sunday* |
| 1510 | KGA | Spokane WA | 0130 - 0200 | Monday |
| 1520 | WWKB | Buffalo NY | 0730 - 0800 | Sunday |
| 1530 | WCKY | Cincinnati OH | 0730 - 0800 | Sunday |
| 1540 | KXEL | Waterloo IA | 2200 - 2230 | Sunday |
| | KXEL | Waterloo IA | 2330 - 2400 | Mon - Fri |
| 1560 | KLWG | Council Bluffs IA | 1900 - 1915 | Mon - Fri |
| | WCNW | Fairfield OH | 1645 - 1700 | Mon - Fri |
| 1590 | WPLW | Carnegie PA | 1600 - 1630 | Sunday |
| 1600 | WWRL | New York NY | 1500 - 1530 | Sunday |
| | WWRL | New York NY | 0630 - 0645 | Mon - Fri |

INTERNATIONAL AM STATIONS*

| FREQ | NAME/COUNTRY | SCHEDULE |
|-------|-----------------------------------|--------------------|
| 819 | Radio 819 - Int. Waters (England) | 2000 GMT Sun - Fri |
| 963 | ABC Radio - Republic of Ireland | 1845 GMT Sun - Fri |
| 1098 | Manila, Philippines | 1130 GMT Sun - Fri |
| 1377* | Swazi Radio - Swaziland | 2245 GMT Sun - Fri |
| 1610 | Caribbean Beacon - Anguilla | 0015 GMT Tue - Sat |

- NOTES: ¹WWL also shown as 2345 - 2400 Mon - Fri.
²CJMR has a CP for 1320 kHz.
³WLEA carries the program every other Sunday.
⁴Magazine has two questionable entries which I've omitted:
 Brazil-1525 is probably misprint of 15265 SW.
 Indonesia-1110 is likely a misprint of a SW freq.
 *Original list shows this as 1400 kHz. WRTM '89 says 1377.

THE PROTESTANT HOUR

UNITED METHODIST SERIES
 "SIGNS OF OUR TIMES"
 A Vision for the Church



ON RADIO
 Dr. William K. Quick,
 Pastor
 METROPOLITAN
 UNITED
 METHODIST
 CHURCH
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 Music—
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 Dr. Quick

| DEPT/ST AREA | TIME | STATION |
|--------------|------------|--------------------|
| Detroit | 8:30 a.m. | WJIM/1040AM |
| Livonia | 10:30 a.m. | WJIM |
| Royal Oak | 9:00 a.m. | WJIM/1040AM (week) |
| | 9:00 a.m. | WJIM (week) |
| Adrian | 7:30 a.m. | WJIM/1040AM |
| Alpena | 8:00 a.m. | WJIM/1040AM |
| Red An | 8:30 a.m. | WJIM/1040AM |
| Battle Creek | 9:30 a.m. | WJIM/1040AM |
| Bay City | 8:30 a.m. | WJIM/1040AM |
| Herrin | 8:30 a.m. | WJIM/1040AM |
| Spring | 6:00 a.m. | WJIM/1040AM |
| Dowagiac | 6:45 a.m. | WJIM/1040AM |
| | | WJIM |
| Reeseville | 9:30 a.m. | WJIM/1040AM |
| Flint | 7:30 a.m. | WJIM/1040AM |
| Gr. Rapids | 7:30 a.m. | WJIM/1040AM |
| Grayling | 8:00 a.m. | WJIM/1040AM |
| Hancock | 8:30 a.m. | WJIM/1040AM |
| Hillsdale | 11:00 a.m. | WJIM/1040AM |
| | | WJIM |
| Jackson | 8:00 a.m. | WJIM/1040AM |
| Kalamazoo | 7:30 a.m. | WJIM/1040AM |
| Leansie | 7:30 a.m. | WJIM/1040AM |
| Lansing | 10:00 a.m. | WJIM/1040AM |
| Muskegon | 8:00 a.m. | WJIM/1040AM |
| | | WJIM |
| Port Huron | 7:30 a.m. | WJIM/1040AM |
| Reed City | 8:45 a.m. | WJIM/1040AM |
| S. Arbor | 8:00 a.m. | WJIM/1040AM |
| Three Riv. | 11:00 a.m. | WJIM/1040AM |
| Traverse C. | 6:00 a.m. | WJIM/1040AM |

HEARD SUNDAYS

Collins R390A, The World's Best Receiver? ... by G. S. Maynard

Designed by Collins for the US military, this set is a cost reduced yet improved version of their original R390-URR. It gained Signal Corps approval during 1953 and most were made before 1967, first by Collins and then under licence by several famous American equipment manufacturers. A few are still on forces inventories, though most have been scrapped or released for sale, with adverts such as the "World's best receiver"; page 33, WRTM 1981.

This 26 valve, 0.5 to 32.0MHz, PTO tuned, double/triple superhet is an excellent monitoring receiver, one that instills user confidence and makes stations stand nobly pillar like and clear from the surrounding grass of background noises. It must not however, be thought of as an ideal receiver. It lacks fine tuning accuracy, frequency agility, h.f. sensitivity, switchable sidebands and FM facilities, and could easily disappoint those who are used to modern and compact ergonomic designs.

The 390-A offers six text book shaped i.f. passbands, 0.1 and 1.0kHz by single crystal, and 2,4,8 and 16kHz by individual electromechanical filters; the 2 and 4 are particularly steep skirted with side slopes sharper than 60dB per kHz. It has a rear 455kHz i.f. output and two independently controlled a.f. stages - 500mw ph/spkr and balanced 600 ohm line, also, two calibrated signal meters - 0 to 100dB carrier input reference 2uV (60dB = S9) and a switchable -30 to +13Vu line output reference 1mw. With a working input range that exceeds 135dB, a narrow band performance that is effective against carriers only 1kHz removed and an overload margin some 15dB above a.g.c., we cannot fail to understand it's capability for weak signal resolution in crowded band conditions.

Though good these specifications are only part of the picture, for one must see under the covers to fully appreciate why a 390-A is sought after and retains good second-hand values. It is a real Collins, with eighteen crystals, twenty-six permeability tuned circuits and a digital dial, all simultaneously switched and driven by two large knobs; MHz to select one of 32 megahertz bands, and kHz for tuning. Gears and cam racks accurately track the - (a) single tuned antenna, (b) double tuned r.f. stage bandpass, (c) triple tuned first variable i.f., (d) triple tuned second variable i.f., (e) the main, high stability, permeability tuned local oscillator - PTO, and (f) the odometer like 0 to 32MHz, 20ft per MHz, 200Hz graduated Veeder Root dial, within a sophisticated WCMR/WFRN mechanism that will not be manufactured again.

P.O. Box 307
 Elkhart, IN 46515

This engineering masterpiece is often forgiven for it's 100kHz per turn heavy feel tuning, it's clickety-clacking dial, it's size 10 1/2h x 19w x 15d (6U rack height), weight 75lbs and power consumption 150/220W, but seldom for it's hard and strident audio. Many 390-A users end up with ringing ears or headaches and they quickly determine that something must be done. Soft sounding headphones or loudspeakers help to make listening more comfortable but are not the real answer.

Most problems centre on the demodulator and a.g.c. circuitry. Firstly, the simple diode cannot properly cope with the passband phase changes and AM sideband amplitude increases introduced by resonant discs within many examples of the mechanical filters. Later filters were much better. Peaks and transients overcome the carrier or b.f.o. re-insertion and demodulation gives rise to serious distortion with harmonics and uncomfortably cicky sound, especially on weak and fading signals. Secondly, the 390-A was designed before SSB communications became established, and while it demodulates, of a fashion, internal arrangements are far from ideal; - one is obliged to tune and BFO resolve with the left hand while the right constantly rides RF Gain. Collins later introduced SSB converters that run from 390 series IF Output sockets.

An intending 390-A owner would be wise to check the prospective purchase before buying, some "well used" and rough looking examples can outperform unmarked but earlier models. Remove all covers and watch cam rack operation as the MHz knob is turned through 0 to 32. Set MHz to 0 and turn the kHz knob, other racks will move, look for lost movement between the kHz knob and the rightmost front cam, gear 86 may be worn. See that the kHz knob is not too stiff and has overtravel beyond 00.000 and 01.000 with a "-" or "+" sign

showing. On signal, use the carrier meter to check that all mechanical filters have correct bandwidths and similar transmission levels, passband ripple is often seen but individual responses must be symmetrical. Check the mechanical zero adjust arrangement and for a working BFO, also AGC, MANUAL and CALIBRATE functions. Using the 16kHz bandwidth zero beat to calibrate at 500kHz, then listen for audio frequency deviations as you switch through every MHz band, notes that differ greatly, or are missing, indicate a deteriorated crystal for that band or it's heterodyne range. Spares are available but often take considerable time to locate, so be sure that you get a manual and are happy with the set.

To get the best out of a 390-A we should be aware of its requirements and characteristics. The first point of attention must be the power supply - it is made to operate from 115V or 230V a.c. lines. Valves, ovens and components will survive longer if the receiver is not stressed by running directly from our 240V a.c. mains, especially when the thermionic rectifiers have been replaced by semiconductor devices. To reduce the mains try a 12V 1A transformer behind the PTO with its secondary connected in series antiphase, or, supply 115V sets with a 110V isolating or auto-transformer. Fit a 1A AS 230V (2A AS 115V) fuse in holder F101. Caution! Supply potentials are present as long as power is connected, the receiver switch does not isolate.

Antennas are best connected to the 390's isolated input winding via its twin co-axial socket. If two pin plugs or adapters are not available then move internal leads and use the large co-axial socket. This is a simple US Navy modification that brings the antenna coil protection device into operation. At the antenna relay change over jumpers J105 and J106 in sockets P205 and F206, and short J107 inner to chassis. The local output stage is at 600 ohms so some form of matching is necessary for use with modern 4 to 8 ohm headphones or loudspeakers. Simple transformer solutions are 100V Line to 8W/8ohm, or 110-120V to 9-15V a.c.

Next we can go through the valves - one need not buy new to get good results from a 390-A. Select 5749/6BA6W valves for noise; temporarily remove V501 and swap valves to try each in position V502 observing Vu meter reading and hiss after two minutes warm up with RF Gain at maximum. Use the quietest as V501 and the second most quiet as V502. Try all three 6AK6's in V504 socket; after each has had a full two minutes warm up time observe carrier meter deflection the higher the reading the better the valve - use the best in V504, second V603, third V604. Similarly with V201 temporarily removed, the 6C4's may be selected for noise in position V202 and then used in order V202, V203 V204. V701 could be an example that drifts little, while V505 may be selected to produce the largest diode voltage with BFO on. Valve shields were of shiny metal on early sets; to extend valve life these should be put aside, and if you can, fit a set of the black conductive push on types supplied to later contracts.

Further improvements are possible by making simple valve changes. A 6AH6 for V508 extends the a.g.c. range and helps BFO SSB resolution by boosting receiver a.g.c. voltage. At medium frequencies some examples of 6DC6, V201, cross modulate in high signal level environments. Here a 6BZ6 produces significant improvement, but has a longer grid base so the 6AH6, V508 above, must be fitted. Another reason for fitting the 6BZ6 is that it produces a more favourable gain distribution and effectively improves signal to noise ratios as receiver gain is backed off. Local audio quality and output is increased by using a 6AQ5 with pin 7 cut off for V603, designers never intended high fidelity performance and, while communications signals are good, an external amplifier is better for music. Line output audio quality is similarly limited. The 6AQ5 can not be used for V604, so tape recorders and amplifiers are better connected via a capacitor to one of the audio gain pots or to the rear diode output terminals via series 220kR+100nF.

The 26Z5 h.t. rectifier valves V801, V802 run quite hot and lose efficiency more quickly than others. Though available they are costly, yet they can easily be replaced by modern semiconductor devices. The 390-A p.s.u. employs choke smoothing and so high p.i.v. components must be chosen; I use BYX10's on B9A plugs, one in each socket connected anode to pin 1 and cathode (banded) to pin 8. The most expensive valve, RT510, is an iron filament current stabiliser for V505 and V701 heaters; it lasts longer when operated in the vertical position, though may be temporarily

substituted by a pair of parallel connected 82R 4W resistors in socket pins 2 and 7. Quality 12AU7/ECC82 types are suitable 5814 substitutes, all other types are commonly available. V605, the OA2 h.t. stabiliser, should be handled with caution, some have WA marking and contain potentially harmful radioactive gas.

Receiver alignment is unlikely to have drifted unless there has been severe physical mishandling or an internal assault by twiddling fingers. Re-alignment is not difficult, the maintenance manual details full procedure for those capable and possessing the necessary test equipment. Any reasonable 390-A treated as above is likely to be an excellent performer, and yet it's usefulness will still be limited by the detector, a.g.c. and audio limitations mentioned earlier.

This brings us to the field of ancillaries and modifications, where we examine realistic ways of furthering our own work and interests. A summary of possibilities should be worthwhile though we must understand that work involving component or wiring changes or extra holes in the metalwork, could be quite unacceptable to those who appreciate Collins' equipment. One man's mod might be another's headache.

The 390-A is good for general CW, AM and SSB reception. As mentioned above use soft sounding headphones or treble deficient loudspeakers for comfort, or, an external audio filter such as the Datong FL3. The FL3 uses four multipole filters to take the strain out of listening; - one automatic notch filter, one manual notch or peak filter and a pair of independently adjustable high and low pass filters for the removal of a.f. mush. For weak signal work it is recommendable, removing heterodynes and any demodulation harmonics created by the 390-A's mechanical filter/diode detector combination. Simply connect the FL3 into existing ph-spkr leads to obtain an 8R/2W ph-spkr output. Input impedance is 5kR, so it may be connected to 600R outputs without a matching transformer. The odd R390-A was fitted with a BFO reduction drive, and a main tuning reduction drive is known; their use is obvious, though experienced fingers can normally cope.

R390-A SSB demodulation is rather basic and either an external chassis or internal modification is necessary to fully utilise it's excellent r.f./i.f. capabilities.

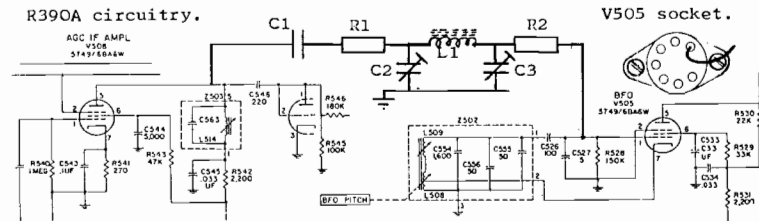
External chassis are generally more versatile. The CV157, 44 valve, rack, 15 $\frac{1}{4}$ "h, 105lbs, offers single or double independent sideband reception; it has three filter, i.f., demodulator and i.f. lines, one for each sideband and a centre one for automatic servo tuning to compensate for frequency drift within the transmit receive system. CV95, a competent single sideband valve adapter. CV13, valve, also usable. Other manufacturers produce suitable chassis and these may be tried. The R390-A IF Output is nominally 50mV at 50R, 455kHz.

A relatively simple yet effective and well known internal SSB modification is to rewire the 6BA6 BFO oscillator stage to suit a 6BE6 which combines BFO generation and product detection. SSB resolution becomes first class and commensurate with that of current top class receivers, and external filtering adds that final professional touch. The circuit was published and optimised by Commander Paul H. Lee, USNR, W3JHR and is well known in club circles.

In considering AM we must understand that modern broadcasting techniques often involve high modulation levels with a processed (distorted) audio, and that this can cause spurious r.f. radiation and consequential degradation of adjacent channel signal to noise ratios. Good reception now requires more than just an envelope detector and hence we see the increasing popularity of receivers fitted with synchronous demodulation.

Without making any component or wiring changes a 390-A can easily be converted to synchronous reception by using a.g.c. amplifier output to carrier lock the BFO/diode detector combination. This mod gives the 390-A an advantage over most other synchronous receivers in that it's lock has manual frequency adjustment and can not be pulled or captured by stronger carriers within the i.f. passband. Though obviously not balanced, signal demodulation becomes linear and phase coherent and the harsh distortions caused by (a) mechanical filter disc resonance, (b) adjacent channel

interference, (c) severe propagation disturbance and (d) SSB reception of AM, are minimised.

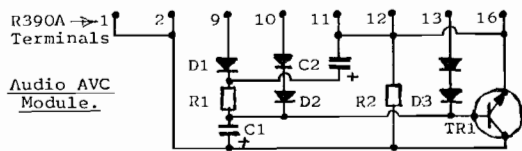


C1 is home made and formed by a simple 8 turn wrapping of 26swg copper wire knotted in place around the middle of V508-6A6H (12 turns 6BA6). R1 = R2 = 100kR. L1 is a 250mW sub-miniature choke, 4m7H, available from many sources. C2 = C3 = 5 to 50pF sub-miniature trimmers mounted on stiff wire and grounded by the carrier meter adjust potentiometer nut. The electrical connection to V505 is made by pushing fine stranded wire down hole 1 (first anti-clockwise) on V505 holder and re-inserting the valve.

Connect a d.c. voltmeter between the rear diode and chassis terminals, 14/15 (red) and 16 (black). With the i.f. unaltered and aligned as per the manual, the diode is likely to develop up to -4V with a tuned stable carrier and -12V with the BFO on. With the BFO locked to a tuned carrier these voltages are added, about -16V, but only when C2 and C3 are peak trimmed and T503 tuned with BFO on. Repeat procedure twice to counter interaction.

Once a 390-A has warmed up its stability is excellent, and whilst this circuit has a clean locking range of only +/- 100Hz there are no drift problems. Some BFO PTO's work better than others, those that have a limited locking range will benefit from lower resistor values; try reducing R1 and R2 down to 47kR or even 22kR. Tune for the best signal with BFO off, then turn it on and zero beat. It is a powerful addition to the broadcast listener's line up and may be used to advantage with the 6BE6 SSB mod for synchronous product detection of extremely poor AM signals.

Many 390-A users note an inadequacy of a.g.c. during SSB or weak signal AM reception. Noise blasts through a.f. circuits when carriers are not present and clearly some sort of audio derived a.g.c. is necessary. This is achieved by connecting a receiver powered circuit to the set's rear line audio and r.f. gain terminals. It is powered by the 6.3V a.c. Break In relay supply and thus may be fully controlled from the front panel without upsetting normal receiver operation.



D1 1N4001
R1 47,000R
C1 1uF/64V
D2 1N4148x2
C2 25uF/16V
R2 4,700R
D3 1N4148x2
TR1 2N2222A

To switch from normal to audio a.g.c. turn Break In ON, rotate RF Gain down to 0 and then advance Line Gain as necessary; - about 3 for AM with Slow a.g.c. and 5 for SSB with Fast a.g.c. When used for AM bandscanning or exalted carrier reception this circuit will supplement normal a.g.c. to prevent excessive noise or distortion in the absence of carriers, it cuts receiver shrieking in the synchronous mode and prevents blasting during severe fades or when suddenly tuning across a powerful signal in slow a.g.c. However, when used for reception of strong SSB this circuit does nothing to help a.g.c. control.

The cure is a single cut and wire resoldering operation within the receiver. Remove the alloy link between rear terminals 1 and 2. Screw the 1+2 circuit board wire to terminal 2 only. Screw a length of insulated wire to terminal 1, run it through the corner crack and inside the receiver to the R.F. Gain potentiometer. Remove the

two white/yellow wires from their potentiometer tag, ensure that they remain connected and insulate, then connect the new wire in their place. This arrangement allows the normal RF Gain control necessary for SSB reception yet with fully adjustable audio a.v.c. limiting for stronger peaks: It is also much better for AM DXing.

Simple product detector, synchronous demodulator and a.g.c. mods do much for 390-A performance, they should also be applicable to other receivers in the 388-392 range. As a broadcast listener I am more than happy with the set and do not covet any other. Many modification articles have already been published and are worth looking out for; contact members of, or subscribers to -

The Collins Owners Club,
c/o Bob Ralph,
4, Leam Crescent,
Solihull,
West Midlands, B92 8FD.

The Hollow State Newsletter,
c/o Chris Hansen,
P.O. Box 1226,
New York,
NY 10159.

"The World's Best Receiver" ? Not really a fair question, nor would it be a fair claim.

The Collins R390A-URR was constructed to a critical military specification; in original form its limitations were both known and accepted. As a receiver it is capable of quality AM, super DX, high resolution SSB and sharp CW; an outstanding monitor. And indeed, it is highly likely that any 390 now in private hands will serve as an outstanding monitor long beyond the passing of our mere mortal selves.

10th Feb 1989

Copyright -

G S Maynard, 16 Woodford Avenue, Newtownabbey, N Ireland, BT36 6TL.

More Collins 51J4 Technical Notes

Dallas Lankford, 903 Sherwood Drive, Ruston LA 71270, © 1989

These technical notes are a continuation of my "Collins 51J4 Technical Notes" which appeared in DNX 56, 13 (Dec. 28, 1988). Here I will include information on J4 spurious responses, repairs which I have done and been unable to do on several J4's, and additional information on J4 PTO's.

If you hear it, it's there. That's what Kevin Atkins said about the R-390A in *Proceedings 88*, referring to immunity from overloading. A J4 has dynamic range figures virtually identical to a 390A, and consequently is similarly free from overloading. However, excellent strong signal handling performance is not sufficient to guarantee that if you hear it, it's there. Images, IF feedthrough, IF harmonics, spurious mixing products, and other phenomena can produce phantom signals where there should be none. A cryptic line in the J4 manual (Section 1.3, Reference Data), "Spurious Frequency Response: down at least 40 db," prompted me to use a URM-25D signal generator to look for specific spurious frequency responses. They were not difficult to find.

With a J4 tuned to various frequencies in band 1 (5 - 1.5 MHz), spurious responses varying from 55 to 75 db down were found in the 2.5 - 3.5 MHz frequency range. Study of the J4 conversion scheme suggested that band 1 spurs are IF feedthrough to the variable second IF (3.5 - 2.5 MHz), or images of the variable first IF (11.5 - 10.5 MHz) due to a spurious 8 MHz oscillator injection, or both. A loop antenna, which is used by most serious MW DXers, would eliminate any such spurs. Except when using a URM-25D to generate and measure them, I have never heard any band 1 spurs, even with a 85 foot long wire antenna. However, a beverage antenna might produce some detectable MW spurs from the 2.5 - 3.2 MHz frequency range. For bands 2 - 7, all spurs were down about 95 db or more. This means you should never hear a signal on a J4 between 1.5 and 7.5 MHz which is not really there, except with a signal generator in a laboratory setting. For bands 8 - 15, all spurs were down about 70 db or more. This means it is unlikely that you would ever hear a signal on a J4 between 7.5 and 15.5 MHz which is not really there. The spurs for bands 4 - 15 are all images of the variable first IF (even bands: 2.5 - 1.5 MHz, odd bands: 3.5 - 2.5 MHz). In my opinion, the 31 meter band is the only international SW broadcast band where images might be a problem, and then only if you lived next door to a ham who operated a kilowatt transmitter in the 20 meter ham band. I have searched for 20 meter images in the 31 meter band, but have never found any. For bands 16 - 30, the spurs are stronger and more numerous. Not only are there images, like those for bands 4 - 15 (but stronger), but also there are other strong spurs closer to the fundamental frequency. I did not attempt to determine the causes of the additional spurs, or to measure the levels of all spurs for bands 16 - 30. Although some were no more than about 45 db down, I doubt that they will be a problem for DXers in most listening situations because there are few S-meter pinning signals above 15.5 mHz. However, if total freedom from spurious responses in the 15.5 - 30.5 mHz frequency range is an important consideration for you, or if your main MW antennas are beverages, then a J4 may not be adequate for your needs.

The three J4's I have worked on have varied in condition from virtually unrepairable to almost perfect. Granted, a sample of three is not a large sample, and it would be unlikely that I have

encountered all J4 problems. But if the following discussion includes most common problems, then it will have served its purpose.

Let's start with the virtually unrepairable J4. There were two main problems, (1) a PTO with 1 mHz end points 15 kHz wide and a broken slot on the end point adjustment shaft, and (2) an intermittent loss of signal which was traced to the mechanical filter conversion kit (MFC kit). It was determined that moving either of the two tubes in certain ways reproduced the signal loss problem, i.e., caused the signal loss to come and go. The problem also seemed to be associated with the rotary switch which selects the bandwidth (mechanical filter). There is no way to work on a MFC kit in a J4; it must be unsoldered, unbolted, and removed. When I began removal it was obvious that a previous owner had attempted repairs because of poor solder work, non-original screws, and missing lock washers. After the MFC kit was removed it was also obvious that whoever did the repair work was incompetent. Instead of removing all necessary screws and disassembling the MFC kit, he had left some of the screws in place and bent some of the metal plates aside in an attempt to gain access to internal parts. It is beyond the scope of this article to describe how to disassemble a J4 MFC kit. Suffice it to say that it can be done, but most DXers and hams do not have the skill, time, determination, and patience to do it. Even after a MFC kit is removed and disassembled some parts are not accessible without unsoldering and removing components. After a thorough visual inspection, including observing how internal parts moved as tubes were moved, I speculated that the intermittent signal loss due to tube movement was caused by a 0.01 disc ceramic bypass capacitor which touched an internal metal plate. Due to component density, there was not much room to move the cap, about 1/16 of an inch, but I thought it would be enough. It was. After reassembly and reinstallation the intermittent signal loss due to tube movement was gone. I could wiggle the tubes around in their sockets with no signal loss. But then the second aspect of the problem became apparent. The bandwidth switch did indeed have a problem. When the bandwidth was changed a signal loss frequently occurred. Although the loss could be eliminated by fiddling with the bandwidth switch, obviously additional repairs were necessary. In my opinion, the only possibility for completely fixing this particular MFC kit would be to completely disassemble it, remove all components, hopefully identify the problem during the process, and rebuild the MFC kit with new resistors and capacitors. Because of the PTO problems (which will be discussed below) and the remaining MFC kit problem, I have advised the owner to scrap this J4 for parts.

The repairable J4 was probably beyond the abilities of most people to repair. There were eight main problems, (1) a 100 kHz calibrator which would not zero beat with WWV, (2) missing top and bottom dust covers, (3) a stiff antenna trimmer, (4) several broken couplers, (5) insensitivity on all bands, (6) additional insensitivity on bands 16 - 30, (7) an intermittent loss of signal on band 1, and (8) modified BFO and mechanical filter switch shafts. Problem (1) was merely a bad 100 kHz crystal. But naturally not any 100 kHz crystal would do. The 51J series 100 kHz crystal is a special type. You either have to find someone with parts willing to sell you one at a reasonable price, or buy another 51J series receiver for parts. Problems (2), (3), and (4) are solved similarly. Problem (3) was identified as normal shaft wear due to a poor capacitor design. I have observed that most 51J series receivers have stiff and (or) rough antenna trimmers. In a J3, J4, or R-388 you can switch the 100 kHz calibrator capacitor, which will have little use and consequently no stiffness or roughness, with the antenna trimmer capacitor. One of the broken couplers caused another problem. I had tuned around various bands before I noticed the bands 4 - 30 gear shaft coupler was broken. Naturally that unsynchronized the band 4 - 30 gears and cams, if the J4 had not been shipped to me in unsynchronized condition. And naturally none of the 51J series manuals state the frequency, about 8.300 mHz, at which the band 4 - 30 cam tips align with the holes in the metal plate behind the gears. It is virtually impossible to align the cam tips precisely with a J4 set to 8.300 mHz, so after they were aligned approximately I still had to do the complete gear synchronization procedure as described in the manual. Problem (5) was traced to a modification. A previous owner had changed R149, originally 680 ohms, to 820 ohms which desensitized the J4. As I have remarked previously in my first technical review article, you should not tamper with R149 unless it has been changed by a previous owner. Decreasing the value of R149 from the original 680 ohms does increase sensitivity slightly, but it also significantly reduces dynamic range, especially on band 1. Problem (6) may also be fairly common in 51J series receivers. Band 16 - 30 insensitivity was traced to a broken wire from the mixer coil to a nearby trimmer capacitor. Tuning a 51J series receiver flexes the front end coils by a small but definite amount. Repeated flexing had caused the coil wire to break from metal fatigue where it exited from a hole in the bakelite collar around the top of the coil. When insensitivity is isolated to a single band (1, 2, or 3) or a sequence of bands (4 - 7, 8 - 15, or 16 - 30) it is likely caused by such a broken wire. Collins should have included a solder lug on the collar for termination of the coil wire and used larger wire from the coil lug to the capacitor lug. The coil wire made two turns through a small hole in the bakelite collar, so I unlaced one turn, and added a home made solder lug made from # 22 tinned solid wire. The repair looks professional and is sturdier than the original. Problem (7) was tentatively traced to a small piece of metal lodged in one of the tube pin holes of the band 1 mixer tube socket. The small piece of metal was removed using the end of a small brass safety pin which had been bent into a hook, but only after considerable effort. Occasional intermittent signal loss remained, probably due to internal damage to the tube pin socket. To cover the possibility of a bad component, when the socket was replaced all components which terminated at the socket were also replaced with new components. Problem (8) was a baffle. Two large holes had been drilled in the thick metal plate behind the front panel, one centered where the smaller BFO and bandswitch shaft hole had been, and the other nearby. The end of PTO shaft had been cut off, a different coupler used in place of the original, a non-mar clamp discarded, and a large brass bushing inserted through the front panel, but not bolted in place. Was it an attempt to "improve" on the Collins design? Or

an attempt to repair previous damage? I'll probably never know. The only correct fix would be to remove the entire gear assembly behind the front panel, replace the thick metal plate with one from another J4, put everything back together, resynchronize the gears, and realign the J4. I have not attempted that. Instead, I redid the modification in an acceptable manner, which required a different coupler, a non-mar oscillator shaft fitting with non-mar clamp from my R-390A parts junk box, and another bushing with nut for the front panel.

The almost perfect J4 has two problems, (1) the crystal filter is too narrow in positions 1 and 2, and (2) the crystal filter phasing shaft causes "static" as the phasing control is rotated. I have not cured either problem yet, although polishing the phasing control shaft and hole in the front panel shaft support plate greatly reduced the static. For all I know, the two problems may also be related. One solution would be to replace the entire crystal filter assembly, but I would rather understand the problems completely and isolate the faulty components or otherwise identify the causes.

Apparently I lead a charmed life because both of my J4's have nearly perfect PTO's with end points off by no more than 1/2 kHz, linearity within 1/2 kHz at each 100 kHz point from end to end, and little warm up drift. In addition, the end point adjustment shaft in both PTO's, though stiff, can be turned with the home made alignment tools I described in my first technical notes article.

The PTO in the virtually unrepairable J4 showed me how lucky I had been. The end points were about 15 kHz off, and when I tried to do an end point adjustment I discovered that the end point adjustment shaft slot had been broken by a previous owner. Since I had a bad PTO with a good end point adjustment coil from a junker R-388 I decided to try to repair the otherwise good PTO. However, in the process of switching end point adjustment coils I noticed that the good coil would not screw in. Something appeared to be stopping it. I backed the shaft out all the way and saw the problem. There was a shaft lock "nut," a small threaded circular piece of metal with two minute slots in it. Then I remembered the Collins PTO end point adjustment tool which is pictured in the J4 manual, and suddenly the peculiarity of that tool (actually two tools) made sense. One tool is like a small screw driver, but with a knurled end rather than a handle. The other tool is hollow, with two thin "blades" on the rim of the hollow tube. The screw driver tool is inserted into the hollow tool and the two are used together to unlock and lock the end point adjustment shaft lock nut, and the hollow tool is used to prevent the lock nut from locking while the shaft is screwed in. Apparently some end point adjustment shafts can be screwed in with the lock nut "locked" (like those in my two J4's) and some cannot (like the one in the J4 with the broken slot). A J4 with an end point adjustment shaft which cannot be screwed in with the shaft locked can still be adjusted by backing the shaft out all the way to access the lock nut, backing the lock nut out all the way, adjusting the end point, backing the shaft out all the way while counting turns, and then by trial and error setting the lock nut at just the right position so that the shaft can be screwed back in the correct number of turns. Good luck! After replacing the broken end point adjustment coil, the end points were still about 10 kHz too wide with the end point adjustment shaft screwed all the way in. Oh well, I still had a brand new (er, unused) J4 PTO which I had been saving in reserve. But to make a long story short it was bad too, with end points 4 kHz too wide after the end point adjustment shaft was screwed in all the way. So I got out pencil, paper, and my calculator and applied algebra and calculus to the problem to determine if modification was possible.

In the first case we find that removing 1 turn of L changes L by about 1/15, but a change of 1/50 is actually needed. In the second case we find that the windings of L need to be longer by about 1/50 of the total length of the windings to effect the desired inductance change. The J4 PTO windings are about 1.5 inches long, so we are looking at an increase of about 0.03 inches. This is such a delicate adjustment that it makes me wonder how Collins ever built these PTO's.

There is a potential approach to the end point adjustment problem which I have not tried. The end point adjustment coil is a small 3 turn coil with an inductance range of about 1.75 - 3.75 μH according to the Dec. 1969 *Ham Radio* article, "New Life For The Collins 51J Receiver VFO," pages 36 - 41. This article describes how to extend the end point adjustment range by removing 1 or 2 turns from the coil. However, removing 2 of the 3 turns allows you to correct only up to 14 kHz of additional end point error (if the end point correction range graph in the article is correct), and greatly reduces the end point correction range. This means that the approach might not work for a PTO with 10 kHz or more excessive end point error. Furthermore, this approach does not seem appropriate for such PTO's because the fix will not last long enough to make it worthwhile. For example, the *HR* article mentioned that by 1969 the end points of many 51J series receiver PTO's had expanded beyond the adjustment capacity of the end point adjustment coil. The original end point adjustment range was given as about 30 kHz. If we assume 51J end point spreading per year is uniform, this means the spread rate for such receivers is about 1.5 kHz per year. That is similar to the spread rate I have estimated for the two "bad" J4 PTO's I have examined. The first bad PTO I mentioned above with 10 kHz of excessive spread came from a 1959 J4, which suggests a spread rate of 1.33 kHz per year. So even if removing 2 of the 3 turns on the end point adjustment coil did give 14 kHz of additional end point adjustment range, after 4 years the end points would have expanded beyond the adjustment range again. The second bad PTO I mentioned above with 4 kHz excessive end point error was unused with what appears to be a 1967 date code. That would correspond to a spread rate of about 1.5 kHz per year. If the *HR* article is correct, removing 2 turns from the end point adjustment coil of that PTO would extend its useful life by about 6 years.

Here's a report from the Colorado CPC Machine. We mailed a total of 91 CPC letters from October 15 thru February 20. Total responses were approximately 20 with seven tests scheduled. The breakdown for tests was 56 financed by "The Machine" and 35 by other NRC'ers.

To relieve any guilt, there was a self-motivating reason behind the numbers mailed by "The Machine". Alabama is a very difficult state to log in Colorado, and so it was our target state. Old-time East coast NRC'ers may remember a blitz of hard to hear Graveyards and Regionals from NY and PA stations in 1965 and 1966; many of those were scheduled by Wayne Heinen, based on the selfish principle that says, "If you want to hear a station, write them a CPC letter". Today this principle still holds true for Wayne, and now for Jeff. If only this kind of "Selfish" behavior could be perpetuated!

Other DX'ers did offer us target station lists, and we did mail requests to those stations, unless we knew that they either (1) had turned us down in the last two years for a CPC TEST or (2) are currently operating NSP. We would like to thank the following NRC'ers for their support via stamps and/or stamps and lists during this years effort.... Glenn Cooper, Roy Millar, Bob Harrison, Bill Burroughs and Tom Jastnisky. In addition to the tests you've seen credited to those who were lucky enough to get replies, one of Roy Millar's suggestions (WINV-1560) netted a reply from the new owners who have indicated a willingness to test, and we've suggested early next season.

At present we have a data base of all the stations that have been contacted regarding CPC by this computer for the last two seasons. If any other NRC'ers have other such lists and would care to forward those, we can consolidate it as one list and save wasted effort on those stations already contacted.

We have automated our CPC letter writing effort by the use of powerful "Macros" which truly limit us to the time it takes for the printer to function. The other big time user is targeting and scheduling. For the 1989-1990 DX season we will have in place an easy, fast-paced way of producing CPC letters. The hard part is targeting what other NRC'ers want to hear! It is the most time-consuming effort and costs very little! If the members of the NRC WANT a CPC effort that will produce, if nothing else, the volume of letters designed to bring about tests, then it is our hope that many more than a handful of NRC'ers can find a few dollars worth of stamps and a few hours for targeting the stations they would like to see on the air.

Wayne has been the "key pounder" on the tapes and is rather rusty at it, as was evident by some comments in DX NEWS about the quality of some code ID's. So if any other NRC'er wishes to step forward and volunteer to make these all important tapes please feel to contact us and we'll get you started.

We appreciate the many kind words in DX NEWS! To give you an idea of the way "things work around here", Jeff has done the bulk of targeting and typing of the letters into the machine while Wayne supplies letter-head, envelopes and the initial letter template and "Macros" used in the effort. It is a joint effort done for the benefit of ourselves and the members of the NRC.

-via Eric
Bueneman

Truckers listening to radio

Larry King may be the best-known all-night radio host in North America, but keep your eye on Fred Sanders. City by city and state by state, the entrepreneurial Sanders is building up a devoted following among travelers, truck drivers, graveyard-shift workers and several million others who enjoy dropping in on his overnight program which mixes pop-country music with information available in precious few other spots on the radio.

Sanders calls his brainchild the Interstate Radio Network. It's a hookup of nearly 40 stations from coast to coast, many of them 50,000-watt powerhouses on the AM dial. From 11 each night until 7 each morning, Sanders and his cadre of reporters, personalities, experts and commentators break up the music of Randy Travis and Ronnie Milsap with a stew of info specifically targeted for folks on the road in the pre-dawn darkness.

"If you want to label it, I guess you'd call it truck radio," Sanders says. "The network is really the result of our 12 years at WMAQ in Chicago. I did an overnight truckers' show there -- we were a 50,000-watt

station; covered 38 states and half the country -- and in no time, we became the No. 1 station in North America in advertising billings on the all-night shift. We always played plenty of music that everybody could get into, but we really programmed ourselves first to truckers and secondly to other travelers.

"To me, it's a very logical thing to do on all-nights because -- let's face it -- from midnight to 5 a.m., advertisers are not exactly beating down your doors tryin' to buy airtime. Hell, most stations are giving the time away in that timeslot. We figured out that 'narrowcasting' was the way to go, so we aimed at the truckers and travelers and we really scored."

Last year, WMAQ Radio was sold by NBC to Group W, and the new bosses instituted an all-news format 24 hours a day. That put Sanders out of business, but only temporarily. Within six months, Fred launched his own all-night truck-radio network, beaming nightly by satellite from the Tribune Tower at the edge of Chicago's Loop. Today he's not only the principal host of the overnight gig, but also the owner, the general manager, the sales chief and the boss of all operations.

"It's a first-rate information package," Sanders said. "We've got truckers' news throughout the night, of course we have weather with our own meteorologist, we have news that pertains to produce haulers, we have news that pertains to the legal side of trucking, we have a report from a company called Dial-a-Truck that tells truckers where they can

find loads, we have an outdoor report and we've got a sports guy who does live sportscasts once an hour.

"There's a group of people down in Washington who call us anytime there's a hazardous spill on any highway. And naturally, we get calls from people from all over the country -- from Miami to Seattle -- who tell us what's happening in their area. For the listeners, I think it's kind of a voyeuristic pleasure. And we're now seeing an explosion in cellular telephones in trucks, especially among our California truckers. A lotta these guys tend to be the old hotrodders who grew up and got trucks -- and of course, they have to have all the latest gadgets, so now they're callin' us every night on their cell phones."

Sanders and his overnight network are beginning to show a profit, what with blue-chip advertisers like Ford, AT&T, Chevron, Texaco, the Associates and Rand McNally eating up tons of commercial time.

"My career took a turn in the 1970s when I first got involved with the truckers' show," Sanders said. "Because instead of just being on the air, I got involved with the sales and of it -- the business end -- and I really learned where the money was buried. That's why I've gone into business for myself now. When you're just another voice on the air, you're very expendable. But when you have advertisers committed to what you're doing, it's a whole different ballgame."

Gary Deeb is a syndicated columnist.

Graveyard Achievements

William Hale

734 Burleson
San Marcos, TX 78666

Distance records attained on 1230, 1240, 1340, 1400, 1450, and 1490 kHz

Anyone wishing to submit their lists, please do so. But be sure to indicate which "era" they fall into. Listings MUST be in frequency and alphabetical order by state and city. This is imperative, as I don't have time to sort out call letters vs cities. And type or print neatly. Others will be returned. Thank.

Russ Edmunds has submitted his Graveyard lists for the period of time he DXed in Syracuse, NY, and the results appear below.

One new record is noted in bold. A few records were already his, which are not noted. All loggings are in the Post Jan 1, 1960 period.

| | | | | | | |
|----------------------|---------------------|-----------------------------|---------------------|-----------------------|---------------------|------------|
| 1230 kHz | RUSS EDMUNDS | WBAX PA Wilkes-Barre | 125 | 1450 kHz | RUSS EDMUNDS | 290 |
| WITH MD Baltimore | 269 | | | WOL DC Washington | | 506 |
| WNEB MA Worcester | 228 | 1340 kHz | RUSS EDMUNDS | WHTC MI Holland | | 426 |
| WENY NY Elmira | 72 | WDCR NH Hanover | 204 | WIBM Jackson | | 269 |
| WFAS White Plains | 187 | WNID NJ Atlantic City | 269 | WFPG NJ Atlantic City | | 83 |
| WCPO OH Cincinnati | 514 | WHBO NY Auburn | 30 | WCLI NY Corning | | 40 |
| WBVP PA Beaver Falls | 268 | WENT Gloversville | 91 | WKAL Rome | | |
| WKBO Harrisburg | 196 | WHAT PA Philadelphia | 221 | 1490 kHz | RUSS EDMUNDS | 101 |
| WCRO Johnstown | 236 | WKGN TN Knoxville | 643 | WCSS NY Amsterdam | | 105 |
| WBPP Lock Haven | 148 | 1400 kHz | RUSS EDMUNDS | WBTA Batavia | | 5 |
| WJOP VT Burlington | 179 | WOND NJ Pleasantville | 267 | WOLF Syracuse | | 236 |
| WNOR VA Norfolk | 426 | WJET PA Erie | 209 | WARD PA Johnstown | | 212 |
| | | WKWK WV Wheeling | 313 | WBCB Levittown | | 215 |
| | | KCKB ON Collingwood | 222 | CKCR ON Kitchener | | 215 |
| | | CJFP PQ Riviere du Loup | 455 | CHYM Kitchener | | 385 |
| | | | | CKSM PQ Montagny | | |

KRZY
STEREO AM 1450

Parker, Colorado is the home of Jeff Tynan, who DXes with an ICF-2002 mounted in a three foot octagonal loop antenna, and has submitted his Graveyard loggings

Out of the 68 total catches on the GY channels, Jeff claims the record distance for five of them, which are indicated in bold. All loggings are from 1987-1989.

| | | | | | |
|------------------------------------|-------------------|------------------------|-------------------|---------------------------|-------------------|
| 1230 kHz | JEFF TYNAN | KXIT TX Dalhart | 261 | KODI WY Cody | 420 |
| KEXO CO Grand Junction | 193 | KFBC WY Cheyenne | 120 | 1450 kHz | JEFF TYNAN |
| KRMH Leadville | 75 | KTHE Thermopolis | 344 | KVSL AZ Show Low | 462 |
| KDZA Pueblo | 94 | 1340 kHz | JEFF TYNAN | KGW CO Alamosa | 148 |
| Steamboat Spgs | 114 | KDEN CO Denver | 22 | KDHN Buena Vista | 82 |
| | 118 | KHUB NE Fremont | 453 | KGRE Greeley | 69 |
| KSTC Sterling | 354 | KSID Sidney | 181 | KMBW KS Hutchinson | 380 |
| KLAS NE Hastings | 604 | KCMN NM Aztec | 250 | KBHW MN Breckinridge | 636 |
| KLAV NM Las Vegas | 273 | KKIT Tucson | 210 | KONE NV Reno | 807 |
| KFVN NV Las Vegas | 506 | KTOQ SD Rapid City | 331 | KRZY NM Albuquerque | 319 |
| KKFN SD Sioux Falls | 374 | 1400 kHz | JEFF TYNAN | KOBE Las Cruces | 508 |
| KHGR UT Murray | 249 | KSUN AZ Phoenix | 580 | KWHW OK Altus | 444 |
| KVOC WY Casper | 444 | KRVZ Springerville | 608 | KSIW Woodward | 348 |
| | 41 | KTUC Tucson | 72 | KBFS SD Belle Fourche | 362 |
| 1240 kHz | JEFF TYNAN | KRLN CO Canon City | 186 | KYNT Yankton | 451 |
| KRDO CO Colorado Spgs | 148 | KDTA Delta | 75 | KCHY UT Moab | 274 |
| KDGO Durango | 358 | KBZZ LeJunta | 117 | KEYY Provo | 375 |
| KSLV Monte Vista | 238 | KAYS KS Hays | 295 | KVOW WY Riverton | 318 |
| KICD IA Spencer | 238 | KCOW NE Alliance | 208 | 1490 kHz | JEFF TYNAN |
| KIUL KS Garden City | 238 | KLIN Lincoln | 434 | KVCA AZ Prescott | 543 |
| KODY NE North Platte | 238 | KMNI NM Grants | 342 | KBOL CO Boulder | 51 |
| | 238 | KTRC Santa Fe | 273 | KBUC Gunnison | 133 |
| KELK NV Elko | 592 | KGVL TX Greenville | 652 | KXRE Manitou Spgs | 31 |
| KALY NH Los Ranchos de Albuquerque | 319 | | | | |

KDRO MO Sedalia 617 KRTN Raton 171 KJQN UT Ogden 404
 KRSN NM Los Alamos 258 KBIX OK Muskogee 580 K605 WY Torrington 183

Our first Graveyard Achievement list from Down Under comes from Laurie Boyer, who DXes from Invercargill and Dunedin, New Zealand.

Not all are new records, as Eric McIntosh holds many from Invercargill. New records are in bold. One tie is designated by a "t". All loggings are prior to Jan 1, 1960, unless in *italics*, which are in the Jan 1, 1960 to present time frame.

1230 kHz LAURIE BOYER KCOV Santa Maria 7040
 QTH: Dunedin, NZ
 KXO CA El Centro 7119 KSPA Santa Paula 7061
 KERO Bakersfield 7116 WMGA GA Moultrie 8438
 KSEE Bakersfield 7116 KPRL ID Moscow 7754
 KGFJ Los Angeles 7077 KSPT Sandpoint 7848
 KDZA CO Denver 7870 KFOV IA Ft Dodge 8438
 KBAR ID Burley 7867 KAOK LA Lake Charles 7956
 KRXC Rexburg 7786 WJLB MI Detroit 8889
 WHCO IL Sparta 8448 KXGN MT Glendive 8206
 KFJB IA Marshalltown 8473 KWNA NV Winnemucca 7439
 KLIC LA Monroe 8114 KCNS NM Truth or Consequences 7481
 KSLO Opelousas 8017 KTNM Tucumcari 7726
 KLAS NV Las Vegas 7289 KWHCC NC Waynesville 8652
 KSAK NH Gallup 7511 KFYU WA Everett 7591
 KFUN Las Vegas 7882 KEYZ ND Williston 8292
 KQTY WA Everett 7591 KILE TX Galveston 7850
 CFCW AB Casrose 8182 KLUF Galveston 7850

1240 kHz LAURIE BOYER KCSU UT Provo 7633
 QTH: Dunedin, NZ KODI WY Cody 7940
 KOFA AZ Yuma 7153 **1400 kHz LAURIE BOYER**
 KHUM CA Dinuba 7161 QTH: Invercargill, NZ
 KHUM Eureka 7209 KXIV AZ Phoenix 7400
 KROY Sacramento 7188 KXIV Phoenix 7400
 KRNO San Bernardino 7117 WJET PA Erie 9141
 KSON San Diego 7052 WJET Erie 9141t
 KSUE Susanville 7312 KRUN TX Ballinger 7836
 KRDO CO Colorado Springs 7841

1450 kHz LAURIE BOYER QTH: Dunedin, NZ
 WEDC IL Chicago 8888 KAWT AZ Douglas 7294
 WCEN MD Cambridge 9087 KOPO Tucson 7278
 KELK NY Eiko 7509 KYOR CA Blythe 7199
 WBIR TN Knoxville 8625 KPAL Pala Springs 7296
 KXLE WA Ellensburg 7651 KTEL Walla Walla 7679
 KTNE WY Therapollis 7914 KTIP Porterville 7151
 CJAV BC Port Alberni 7626 KSAM San Francisco 7115

1340 kHz LAURIE BOYER KROY Sonora 7198
 QTH: Dunedin, NZ KVEN Ventura 7049
 KHUM CA Watsonville 7093 KGIN CO Alamosa 7736
 KIST Santa Barbara 7036 KATR Grasley 7918
 WTAN FL Clearwater 8346 WMPB FL Miami 8371
 WSPB Sarasota 8334
 WRDW GA Augusta 8613
 WNVG Millidgeville 8546

1400 kHz LAURIE BOYER QTH: Dunedin, NZ
 WJLD AL Homewood 8395 WASK IN LaFayette 8016
 KCLP AZ Clifton 7387 KPI6 IA Cedar Rapids 8521
 KTUC Tucson 7278 KSIE LA Crowley 7984
 KVOY Yuma 7153 WTXI New Orleans 8086
 KYMA Yuma 7153 WROX MS Clerksdale 8259
 KELD AR El Dorado 8029 KXXL MT Bozeman 7813
 KRE CA Berkeley 7127 KLOS NH Albuquerque 7594
 KCRE Crescent City 7259 KORE OR Eugene 7414
 KREO Indio 7140

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This Graveyard list is from Shawn Axelrod. Many new records have been established, and since Shawn lives in Winnipeg, he has tied Niel Wolfish for many. Those listings in bold type are new records. Ties are indicated by a 't' after the mileage. All loggings are in the Post Jan 1, 1980 era.

1230 kHz SHAWN AXELROD QTH: Winnipeg, MB
 KEXO CO Grand Junction 903
 KDZA Pueblo 864t
 WJBC IL Bloomington 791
 WNRZ Molina 697
 WBOV IA Terra Haute 898
 KFJB IA Marshalltown 597
 WCUZ MI Grand Rapids 748t
 WSDO Sault Ste Marie 884

1340 kHz SHAWN AXELROD QTH: Winnipeg, MB
 KDBN CO Denver 778
 KQIL Grand Junction 903
 KGRR ID Nampa 988
 WHPJ IL Herrin 951
 WJOL Joliet 785
 KVO5 IA Clinton 677
 KFKF KS Kansas City 787
 WLAV MI Grand Rapids 780t
 WWPZ Patoosky 687
 KVBRR/KMBR MN Brainerd 308
 MN Eveleth 313
 WEVE Rochester 494
 KROC Willmar 383t
 WLMW NE Helena 872
 KCAP MT Helena 872
 KGFW NE Kearney 635
 KSID Sidney 613
 KDLM ND Devil's Lake 127

1450 kHz SHAWN AXELROD QTH: Winnipeg, MB
 KATR/KGRE CO Greeley 727
 KEZJ ID Twin Falls 828
 KCDR IA Cedar Rapids 831
 KMBW KS Hutchinson 818
 KATE MN Albert Lea 512t
 KBUN Beaidji 224
 KBHW Breckenridge 288
 KCLD/KNSI St Cloud 358
 KIRX MO Kirksville 730t
 KUUB/KXXL MT Bozeman 882
 KRBN Great Falls 821
 KRBN Red Lodge 802
 KVCK Wolf Point 387t
 KMBE NE Beatrice 888
 KGCA/KZZJ ND Rugby 133
 WHOH OH Hamilton 988t
 KWHW OK Altus 1085t
 KYNT SD Yankton 485t
 KPFZ WI Fond du Lac 825
 WHRY Hurley 442t
 WRCO Richland Center 593t

QTH: Orlando, FL
 WFLA FL Clearwater 20
 QTH: Edmonton, AB
 CKCR BC Revelstoke 287

1400 kHz SHAWN AXELROD QTH: Winnipeg, MB
 KRLL CO Canon City 863
 KPLG DE Delta 911
 KART ID Jerome 828
 WGL IL Galesburg 728
 WBAT IN Marion 958
 KCOG IA Centerville 614
 WFD FT Dodge 544
 KVOE KS Emporia 807t
 KAYS Hays 786
 WCCY MI Houghton 473
 KEYL MN Long Prairie 312
 KHHL Marshall 394
 KLBB St Paul 420
 WHLB Virginia 282
 KDRG MT Deer Lodge 722
 KXGN Glendive 358
 KBRB NE Ainsworth 513
 KCOW Alliance 585
 KLIN Lincoln 838
 KQDJ ND Jamestown 209

QTH: Swan River, MB
 CJAR MB The Pas 129
 CJNS SK Meadow Lake 324
 QTH: Orlando, FL
 WEUS FL Eustis 30
 ZNS2 SAH Nessau 344

1490 kHz SHAWN AXELROD QTH: Winnipeg, MB
 KDRA AR Paragould 1033
 KDRO CO Boulder 784
 KCID ID Caldwell 977
 W DAN IL Danville 848t
 KBUR IA Burlington 718
 WDBQ Dubuque 631
 KRIB Mason City 522
 KKAN KS Pittsburg 800
 KTOP Topeka 788
 WABJ MI Adrian 878
 WMPX MI Midland 791t
 KXRA MN Alexandria 308
 KLGR Redwood Falls 389
 MT Dillon 739
 KXOF Great Falls 621
 KBSO Laurel 585
 KEZO NE Omaha 807
 KNDC ND Hettinger 338
 KQVC Valley City 210
 WHRN OH Marion 978t
 KBZY OR Seles 1204
 KORN SD Mitchell 425
 KQTY TX Berger 988
 KZZM Littlefield 1125
 WI Beloit 880
 WLCR La Crosse 831
 WIGH Medford 487



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WOSH WY Oshkosh 613
 KUGR WY Green River 778t
 K605 Torrington 614
 CFP5 ON Port Elgin 871
 CJSN SK Shaunavon 454

QTH: Edmonton, AB
 CFWB BC Campbell River 581

QTH: Orlando, FL
 WSTR FL Winter Haven 34

Bandscans

Chris Cuomo
670 Third Avenue
Verona, PA 15147-1349

Audible stations from a DXer's location at given times.

Paul V. Zecchino
Point Judith, RI
R-390 with 100' wire

530 TIS Horsesneck Beach, MA
540 WLIJ Islip, NY
550 WICE Pawtucket
560 WHYM Springfield, MA
570 WMCA New York, NY
580 WTAG Worcester, MA
590 WCOP Boston, MA
600 WICC Bridgeport, CT
610 WSWG Torrington, CT
620 WSKQ Newark, NJ
630 WPRO Providence
640 WNNZ Westfield, MA
650
660 WFAN New York, NY
670
680 WRKO Boston, MA
690 WADS Ansonia, CT
700 CHSJ St. John, NB
710 WOR New York, NY
720
730 WACE Chicopee, MA
740 WGSN Huntington, NY
750 WHEB Portsmouth, NH
760 WVNE? Holden, MA
770 WABC New York, NY
780
790 WWAZ Providence
800 WLAD Danbury, CT
WTMR Camden, NJ
810 WGY Schenectady, NY
820
830 WNYC New York, NY
840 WRYM New Britain, CT
850 WHDH Boston, MA
860 WTEL Philadelphia, PA
870
880 WCBS New York, NY
890
900
910 WRCQ New Britain, CT
920 WHJJ Providence
930 WPAT Patterson, NJ
940 WGFP Webster, MA
WKGM Smithfield, VA
950 WROL Boston, MA
960 WELI New Haven, CT
970 WWDJ Hackensack, NJ
980 WSUB Groton, CT
990 WEAN Providence
1000
1010 WINS New York, NY
1020 KDKA Pittsburgh, PA
1030 WBZ Boston, MA
1040
1050 WKSQ New York, NY
1060 WTPP Natick, MA
1070 WKMB Stirling, NJ
1080 WTIC Hartford, CT
1090 WILD Boston, MA
1100 WHLI Hempstead, NY
1110 WHIM Providence
1120
1130 WNEW New York, NY
1140

1150 WMEX Boston, MA
WCNX Middletow, CT
1160 WOBM Tom's River, NJ
1170 WJCC Norfolk, MA
1180 WJFF Hope Vally
1190 WLIB New York, NY
1200 WKOX Framingham, MA
1210 WCAU Philadelphia, PA
1220 WRIB Providence
1230 WERI Westerly
1240 WOCB West Yarmourh, MA
1250 WMTR Morristown, NJ
WARE Ware, MA
1260 WCFS Westport, CT
WEZE Boston, MA
1270 WSPR Springfield, MA
1280 WADD New York, NY
1290 WRCP Providence
1300 WAVZ New Haven, CT
1310 WICH Norwich, CT
1320 WARA Attleboro, MA
1330 WNYM New York, NY
1340 WMID Atlantic City, NJ
1350 WINY Putnam, CT
WNLK Norwalk, CT
1360 WDRC Hartford, CT
1370 WKFD Wickford
1380 WKDM New York, NY
1390 WRIV Riverhead, NY
1400 WALE Fall River, MA
WILI Wilimantic, CT
1410 WPOP Hartford, CT
1420 WBSM New Bedford, MA
WLLS Saybrook, CT
1430 WNRJ Newark, NJ
WXXS Everett, MA
1440 WFTQ Worcester, MA
WNYG Babylon, NY
1450 WKRI West Warwick
WIIN Atlantic City, NJ
1460 WVOX New Rochelle, NY
1470
1480 WSAR Fall River, MA
1490 WUSS Atlantic City, NJ
1500 WFIF Milford, CT
1510 WNLC New London, CT
1520 WTHE Mineola, NY
1530 WDJZ Bridgeport, CT
1540 WADK Newport
1550 WNTN Newton, MA
1560 WQXR New York, NY
1570 WRHD Riverhead, NY
1580 WLLM Patchogue, NY
1590 WARV Warwick
1600 WLVG Sag Harbor, NY

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•Full-size type

Jim Rollins
Whitehall, MI
Superadio II
July 5-8, 1988, 9 am - noon

540 WYLO Jackson, WI
550
560 WIND CHICAGO, IL
570 WMAM Marinette, WI
580 WILL Urbana, IL
590 WKZO Kalamazoo
600
610
620 WTHJ MILWAUKEE, WI
630
640
650
660
670 WMAQ CHICAGO, IL
680
690 WLKE Oshkosh, WI
700 WLW Cincinnati, OH
710
720 WGN CHICAGO, IL
730
740
750 WNDZ Portage, IN
760 WJR Detroit
770
780 WBBM CHICAGO, IL
790 WSGW Saginaw
800 WDUX Waupaca, WI
810 WJPW Rockford
820 WXEZ CHICAGO, IL
830 WMMI Shepherd
840
850 WKBZ MUSKEGON
860 WNOV MILWAUKEE, WI
870 WKAR East Lansing
880
890 WLS CHICAGO, IL
900
910 WDOOR Sturgeon Bay, WI
920 WOKY MILWAUKEE, WI
930 WAUR Sandwich, IL
940 WCSY South Haven, MI
950 WKTS Sheboygan, WI
WJPC CHICAGO, IL
960 WSBT South Bend, IN
970 WHA Madison, WI
980 WCUB Two Rivers, WI
990
1000 WLUP CHICAGO, IL
1010
1020
1030 WNNR Vernon Hills, IL
1040
1050 WLIP Kenosha, WI
WQWH Kaukana, WI
1060 WHFB Benton Harbor
1070 WTSO Madison, WI
1080
1090 WNUIS MUSKEGON
1100
1110 WMBI CHICAGO, IL
1120
1130 WISN MILWAUKEE, WI
1140 WKWM Kentwood
1150
1160 WJJD CHICAGO, IL
1170 WLKD Fond du Lac, WI
1180
1190 WOWO Ft. Wayne, IN
1200
1210
1220 WKRS Waukegan, IL
1230 WCUZ Grand Rapids
1240 WOMT Manitowoc, WI
1250 WEMP Milwaukee, WI

WIND RADIO
56



1260 WWJQ Holland
1270 WCMR Elkhart, IN
1280 WNAM Neenah/Menasha, WI
1290 WMVP Greenfield, WI
1300 WOOD Grand Rapids
1310
1320
1330 WHBL Sheboygan, WI
1340 WLAV Grand Rapids, MI
WLZR MILWAUKEE, WI
1350
1360 WGEE Green Bay, WI
1370 WGHN Grand Haven
1380
1390 WCGI CHICAGO, IL
1400 WRJN Racine, WI
1410
1420 WPLY Plymouth, WI
1430
1440 WNFL Green Bay, WI
1450 WKLA Ludington
1460 WBRN Big Rapids, MI
1470 WBKV Big Rapids
1480 WMAX Grand Rapids
1490 WPBK WHITEHALL, WI
1500
1510
1520 WKJR Muskegon Heights
1530
1540
1550 unid WMIV?
1560 WGLB Port Washington, WI
1570
1580
1590 WTRW Two Rivers, WI
1600 WSNX Muskegon, WI

Doug Smith
Madison, WI
1-poor, 2-fair, 3-good, 4-v/good

540 KWMT Ft. Dodge, IA 1
550
560 WIND Chicago, IL 4
570
580 WILL Urbana, IL 2
590 WKZO Kalamazoo, MI 2
600 WMT Cedar Rapids, IA 2
610
620 WTMJ Milwaukee 3
630
640
650
660
670 WMAQ Chicago, IL 4
680
690 WLKE Oshkosh 2
700 WLW Cincinnati, OH 1
710
720 WGN Chicago, IL 4
730
740 WRPQ Baraboo 3
750 WNDZ Portage, IN 2
760 WJR Detroit, MI 1
770
780 WBBM Chicago, IL 4
790 WEAQ Eau Claire 1
800 WDUX Waupaca 2
810 WDMP Dodgeville 2
820 WXEZ Chicago, IL 3
830 WCCO Minneapolis, MN 1
840
850 WAIT Crystal Lake, IL 4
860
870 WKAR East Lansing, MI 1
880
890 WLS Chicago, IL 4

| | | |
|------|-----------------------|---|
| 40 | | |
| 900 | WNNO Wisconsin Dells | 2 |
| 910 | | |
| 920 | WOKY Milwaukee | 3 |
| 930 | WAUR Sandwich, IL | 3 |
| 940 | WFAW Ft. Atkinson | 3 |
| 950 | | |
| 960 | | |
| 970 | WHA MADISON | 4 |
| 980 | | |
| 990 | | |
| 1000 | WLUP Chicago, IL | 3 |
| 1010 | WSFO Stevens Point | 2 |
| 1020 | | |
| 1030 | WNVR Vernon Hills, IL | 2 |
| 1040 | WHU Des Moines, IA | 3 |
| 1050 | WQWH Kaukana | 1 |
| 1060 | | |
| 1070 | WTSO MADISON | 4 |
| 1080 | | |
| 1090 | WISS Berlin | 2 |
| 1100 | | |
| 1110 | WMBI Chicago, IL | 3 |
| 1120 | KMOX St. Louis, MO | 1 |
| 1130 | WISN Milwaukee | 3 |
| 1140 | KNEI Waukon, IA | 1 |
| 1150 | WYNE? Kimberly | 2 |
| 1160 | WJJD Chicago, IL | 3 |
| 1170 | KSTT Davenport, IA | 3 |
| 1180 | | |
| 1190 | WMAD SUN PRAIRIE | 4 |
| 1200 | | |
| 1210 | | |
| 1220 | WKRS Waukegan, IL | 2 |
| 1230 | WCLO Janesville | 3 |
| 1240 | WIBU POYNETTE | 4 |
| 1250 | | |
| 1260 | WEKZ Monroe | 2 |
| 1270 | WRJC Mauston | 1 |
| 1280 | WNAM Neenah | 1 |
| 1290 | | |
| 1300 | | |
| 1310 | WIBA MADISON | 1 |
| 1320 | | |
| 1330 | | |
| 1340 | | |
| 1350 | WPDR Portage | 3 |
| 1360 | WLBK DeKalb, IL | 1 |
| 1370 | KDTH Dubuque, IA | 1 |
| 1380 | WBEL Beloit | 2 |
| 1390 | KCLN Clinton, IA | 1 |
| 1400 | WRDB Reedsburg | 2 |
| 1410 | WIZM? La Crosse | 1 |
| 1420 | WOC Davenport, IA | 2 |
| 1430 | WBEV Beaver Dam | 3 |
| 1440 | WROK Rockford, IL | 3 |
| 1450 | WRCO Richmond Center | 3 |
| 1460 | | |
| 1470 | | |
| 1480 | WTDY MADISON | 4 |
| 1490 | | |
| 1500 | | |
| 1510 | WAUK? Waukesha | 3 |
| 1520 | WLUV Loves Park, IL | 2 |
| 1530 | | |
| 1540 | | |
| 1550 | WHIT MADISON | 4 |
| 1560 | | |
| 1570 | WFRL Freeport, IL | 2 |
| 1580 | WTTN Watertown | 2 |
| 1590 | | |
| 1600 | WCWC Ripon | 2 |

Radio Roundup ... by Pete Kemp

Computerized radio addicts should note that Kenwood now operates a phone BBS service it accepts 300-1200-2400 baud rates and operates from 1700-0800 daily and Friday 1700 to 0800 Monday mornings. All times are P.S.T. They have a number of files containing equipment modifications and related goodies.

| | |
|----------------------------------|---|
| Wayne Heinen | 2 |
| Dillon, CO | |
| Radio West TRF 12-655 | |
| May 9, 1989 | |
| 530 TIS BRECKENRIDGE | 3 |
| 550 KRAI Craig | 3 |
| 560 KLZ Denver | 3 |
| 600 KIIIX Wellington | 2 |
| 630 KHOW Denver | 3 |
| 650 KUUY Orchard Valley, WY | 3 |
| 740 KSSS Colorado Springs | 2 |
| 760 KJIM Thornton | 3 |
| 800 KLTT Brighton | 2 |
| 850 KOA Denver | 4 |
| 910 KPOF Denver | 3 |
| 930 KRKY GRANBY | 3 |
| 950 KYGO Denver | 3 |
| 970 KFEL Pueblo | 2 |
| 980 KGLN Glenwood Springs | 2 |
| 990 KRKS Denver | 2 |
| 1000 KKMx Hayden | 2 |
| 1040 KKRE Monument | 2 |
| 1090 KYBG Aurora | 4 |
| 1130 KHTH DILLON | 5 |
| 1150 KKZN Englewood | 3 |
| 1170 KVVS Windsor | 2 |
| 1190 KBCO Boulder | 2 |
| 1210 KLDI Laramie, WY | 3 |
| 1220 KBNO Denver | 2 |
| 1230 KBCR Steamboat Springs | 3 |
| 1290 KOWB Laramie, WY | 2 |
| 1310 KFKA Greeley | 3 |
| 1340 KDEN Denver | 2 |
| 1350 KRYT Pueblo | 2 |
| 1390 KDRZ Denver | 2 |
| 1430 KEZW Aurora | 3 |
| 1470 KSIR Estes Park | 2 |
| 1510 KDKO Littleton | 3 |
| 1550 KQXI Arvada | 3 |
| 1600 KRRY Lakewood | 3 |
| (Local KSPN-610-Vail was silent) | |

COMING ATTRACTIONS!

I'll be collecting about six or seven scans for the next issue of the column. I am anxious to see what people are hearing over the summer and on vacation. I'll write a scan of my own from Ocean City, MD in late August. I would very much like to print up bandscans from Canada, the western states, and foreign countries. Keep in mind that nostalgic scans are always more than welcome. Till next time 73s.

**Need more information
about MW DX?
Mail \$1.00 to the NRC Pub
Center; ask for
the Reprints Catalog**

Musings of the Members

Mike and Sue Knitter

P. O. Box 24

Cambridge, WI 53523-0024

Times are local per Muse.

Thoughts from NRC members ... the opinions expressed in this column are those of the individual writer and do not necessarily reflect those of the editors, publishers, or the National Radio Club, Inc.

August 5th is the next deadline for here, BUT check the front page to see if Paul has made any last minute changes to where you should send your MUSINGS to (Not yet - our new candidate is still in transit-pls). So check it out, then write your thoughts down on paper and send them.

The Credit Card Charge line and NRC HQ Line will be closed from August 18, 1989 11PM Central Time thru August 27th 11PM Central Time and August 31th 11PM Central Time thru September 4th 11PM Central Time. We will have the charge card machine at the Convention.....so save your money and just bring your plastic! See you at the Convention!!!

**WALK FM 97.5
AM 1370**

On to Musings:

Mark Strickert - 3852 N. Oconto - Chicago, IL 60634

WNVR-1030 is now "Great American Radio" from 9am to sign off. Far as I can tell, the only tie-in with the Great America Amusement Park is that they broadcast from inside the place. Very little info on "Great America", no obvious necessities like traffic and parking news, and the only ads so far seem to be "Business Radio Network" make-goods and 10-second live spots for WGN-720!? Music mix is classic AOR... All Over the Road... with Taylor Dayne followed by marching music, then a kick-butt set with Cher, Carole King, Hugo Montenegro and Steve Earle. Such a "format" (if any) will likely not attract the same demographics as the amusement park does. Down the dial, WOPA-1200 seems to have new owners that have their act together. It's not on as of 6/13, but could be by the time you read this, religion with Spanish language (but format unknown). Seemed to have picked up the calls for their familiarity, for they won't be broadcasting from Oak Park Arms hotel like the old 1490. WLS-890, target of sooooo many rumors, still puttering along with the oldies-laced yap. Latest murmurings had them going either all-talk, or "Z-Rock", or some mysterious unknown, by 6/11-12, but can't believe anything until it happens, if even then, at the Crock of Chicago. Turning to Sports... I am in need of anyone in/near the "3M" cities (Minneapolis, Miami or Montreal) who can record stations. Also Monterey, Montego Bay and Market St. (Philly or SF, hi). Are DX get-togethers a thing of the past? Used to be 3-4 a year just around Chicago, and maybe as many in the northeast, but they seem to have become extinct. (Try Topeka, Labor Day weekend! -pls)

Conrad R. Durocher - Rte 1, Box 2245 - Dickinson, TX 77539 - 713-334-2526

Howdy from the Road as I celebrate my 11th year as travelling guitarist for Mickey Gilley. This is Day 9 of a 3-month tour that will take us everywhere except home. Back in November '88, I had to move from my ideal coastal DX site on Galveston Bay, and say Bye-Bye to the 700' longwire. The building got torn down but I managed to keep the roadside mailbox. I'm now slightly inland, about 8 miles closer to Houston. With only a 100' longwire and no winter to speak of, there wasn't much to report. Did manage to catch KTNN-660 Window Rock, AZ as a nightly regular during its U1 operation. I guess I could have done a full day's report on KGBC - Galveston with its dozen or so formats. Trivia: Did you know that the man voicing the WWV announcements is Don Elliott and the woman's voice on WWVH is that of Jane Barbe, both of whom are from Atlanta? And now you know the rest... of the story. Back in March, we did 4 days on Grand Cayman Island, took along a Sony AM-FM Walkman. Except for Cubans everywhere, only EE as R. Caiman, playing same beautiful music on 2 AMs and 1 FM. 1205 covered about 30 kHz. But 1555 was about 1/3 the strength and nullable - very strange. Both had carrier hum and modulation was about 50%. Locally I've tried for KYND-1520 just north of Houston but all I hear Louisiana. Are we sure this one's on? Speaking of Beverage Antennae (weren't we?) - by definition, a Beverage is a single straight length of wire at least one wavelength long, viewed as a feedline. The point being, 600' of wire do not a Beverage make, unless you're DXing at 1639 KHz (183 meters), hardly in the AM band (as of yet). I've just been seeing too many DX'ers listing their longwires as Beverages. Using the formula Feet = Meters x 3.281, the minimum length for 830 KHz (360 meters) = 1181 feet and 530 KHz = 1857 feet. I hope the point is taken in the friendly spirit intended. (Beverage, Rice, and Kellogg found that the end of the antenna distant from the receiver had to be terminated to ground for optimum directivity. Later experiments showed that termination through a resistor of between 500-1000 ohms worked best-pls) Oh, did you know that 547 meters = 547 kHz? It only happens once. Just for fun, I calculated 1/2 wave dipole dimensions for the AM band. The Formula $468/f(\text{mhz})$ give us 468' at 1000 KHz. Since dipoles have to be at least one wavelength in height to achieve a directional pattern, this one would have to be 936' high or more! 1600 kHz = 292 feet but 530 kHz = 883 feet and the height would be double that! Aren't you glad I saved you all that work? Later.

Chris Cuomo - 670 Third Avenue - Verona, PA 15147-1349

Just a quick Muse. A big thanks to Joseph Fela and Fred Vobbe who sent tapes of pirate radio stations and to Thomas H. White who sent information about WHGC, a pirate radio station from '75 and '76. Also thanks to everyone who sent details on new TIS stations. I am working on getting an early '70 era Panasonic RF-1006 to work, if solely for the SW band. I miss being able to get the A-index off WWV. My Grundig has perhaps the most ridiculously small SW band ever, tuning from 5.85 MHz to 7.3 MHz. Does any one think that we can translate the following into Spanish? I already have the French equivalent of my standard bumper sticker request and am looking for the Spanish. Here goes: Attn: Promotions Director, To whom it may concern; Please send me a W— bumper sticker. (Please send me bumper stickers for W— AM and W— FM.) I have enclosed a self-addressed stamped envelope for your convenience in responding. I am a collector of radio station promotional items. Thank you Sincerely," Muchas Gracias. (I know that much, hi). 73s. (Don't forget to send along the Spanish version of "Guide to DX"; order copies from the Pub Center - pls)

Cesar Objio - Calle Enrique Henriquez 69 - Santo Domingo, Dominican Republic

Hi, friends, how are you all? Here I am again. In the first place, my thanks to PLS (Paul Swearingen) for his kind remarks about my Merengue tape which I hope some of you will order, if only to help me out with my radio fund raiser. Thank you all. I have received some orders from Europe, but not enough for anything, I mean for what I had in mind, or i.e. to buy a new digital receiver. I hope my luck changes with the U.S. DX'ers. The tape is not only music, there is also the history of Merengue. I had to buy books to study the origins and ways of how the Dominican people came to like it and how it became so popular here, also some records had to be bought in order to select the most famous pieces of this music. Finally on Side 2 there are some Merengues just released last year. It is a new and different example of music, even if you don't like it, you will learn something from it. At last! On the other hand I could go to Puerto Rico and pick up my Realistic DX-400 digital receiver from Radio Shack. It is already repaired and in good condition. I am really relieved with this receiver back. Now I can return to really DX'ing. But I am surprised as passenger air fares have increased lately here, it is almost impossible for me to travel, I don't think I can again visit the U.S. as I usually did, and to a Convention, I have to forget it, too expensive for me. I remember the last one I attended: Atlanta 1978, eleven years ago, with my dear friend Ronald Schatz, God bless him. Some time ago, and to be exact, I read in issue 2, dated Oct. 10, 1988, a clipping about the popularity of Polka in a place around Pittsburgh. The clipping mentioned Mike Panjuscsek who has a two-hour program of polkas from 11am to 1pm on WEDO-AM on Sundays. My mentioning here is because I like polkas but they are not heard around here, can anyone, please, tape one hour of this program and send it to me? I am willing to cover expenses to the kind person to do that. In the clipping I read that Mr. Panjuscsek has 1880 records of polkas for his program, that is excellent. Well, dear friends, I'll try to keep in touch with you via IDXD and Musings. 73's to you all, friends.

KCMO RADIO 81

Guy Kudlemyer - 1320 City View, #1 - Eugene, OR 97402

I've not been in the pages of DXN for a while, so it just might be time for my semi-decade Muse, hi. I've been woefully lacking in DX over the last couple of years, but I still try my hand at it every once in a while. Most notably, I was in Seaside, OR over the weekend of May 18-21 for the Northwest Hobby and Craft Fair convention at the Seaside Convention Center. I took along my Sony SRF-M40W which I bought about a year ago for \$45.00 (on the advice of the article/review by Phil Bytheway). I also took along my Select-A-Tenna and did some DXing / lying in the sun on or near the beach during mid-day. Most notable catch was KATA at 11:05am. Was in Honolulu over the week of June 22-29 with my friend Debbie, who lives in Anchorage. It was her first trip to the islands and her first exposure to my DXing hobby which, at the tender age of 23, she doesn't understand (I'm 33), especially since it's AM. I've been semi-dating this woman for about 5 years (long distance relationships are such a drag...) and we decided we needed to recharge our batteries by lying on the beach in Waikiki. (Sounds reasonable! -pls) Batteries sufficiently recharged (and the band duly scoped-out with the help of my SRF-M40W), I returned to PDX [where? -mk] feeling much stress-relieved. The big kick of the trip (DX wise, anyway) was FM DXing from the plane. With Selectivity set on "DX", the SRF-M40W was able to nail several Honolulu stations aboard the L-1011 while we were still about an hour from touchdown, as long as I held the receiver up to the window. On AM, DX was notably absent during this 11:00am-12:00pm (local time) bandscan. On the quick Seattle-Portland return jaunt, I set the receiver for 106.1 to see how far away I could receive my favorite station, KFAT. KRPM dominated (it was 12:30am) until we began our descent somewhere over Longview, then KFAT's 100,000 watts came blasting in, decimating KRPM's sorry programming. I know the FCC rails on and on about receivers being operated aboard aircraft, but this is not the first time I've tried this little trick. So far, my receiver has not yet caused any commercial aircraft to do the "Exploding Fireball, Plummet 8 Miles To A Violent Fiery Death" routine. In fact, 106.1 will net you some spurious cockpit-to-ground communications if you have the receiver in the right spot and the headphone wires fully extended, wrapped around the perimeter of the window. Try it, but don't tell'em I sent ya, hi! I recently purchased a copy of a computer software program called DX HELPER. It helps you to determine MUF, Gray Line, Great Circle bearings and other things relevant to the DXer, and it runs on the Mac computer. Hope to be able to do a little summation of this piece of software next time I check-in. Till then, see ya! [Don't wait too long before your next Muse -mk].

Niel Wolfish - 178 Florence Ave. - Willowdale, ON M2N 1G4 June 29

Not much being heard on the bands these days aside from one brief E-Skip opening to Tampa on FM two weeks ago. (WMMF on 88.5) I will be travelling through Australia, New Zealand and Fiji over the next two months. I suppose this trip will entitle me to write my own inutite travelogue? Maybe when I return I can muse about the poor market share of the religious stations in Rakiraki! [Can't wait to see your report on them there stations, hi. -mk] Hope everybody has a good summer. 73.

Rick Dau - RR2, Box 64 - Oakland, IA 51560-9630 - (712)483-2230 July 6th

This Musing marks the start of my 2nd year of membership in the NRC, so a re-intro is in order. I'm 24, single, a former student at the University of Iowa [what the school do? fire ya? -mk] and currently working in Omaha as a telephone operator for a major long distance company (I won't say who, but as a hint, it's not AT&T) [MCI? or Sprint? -mk]. I still live on my parents' farm west of Oakland, but I'm hoping to move into the city (preferably Council Bluffs) by year's end. After being relatively quiet for all of May and the first half of June, the band has come alive with lotsa new stations having arrived since. Several evenings during the final week of June produced good openings into North Dakota and northern Minnesota, and some new catches included KKBJ-1360 Bemidji, MN; KCJB-910 Minot, ND; WWJC-850 Duluth, MN; KQJX-890 Lisbon, ND; and KMOM-1070 Monticello, MN. Veries now total 59 as new arrivals include KELO-1320, KELO-1320, KDHL-920, WMT-600 and KTCH-1590. Finally received a holdout verie for last July's reception of KRVN-880. Probably the most interesting QSL card I've ever seen. June highlights - from one year ago: New stations included KLWN-1320 Lawrence, KS; WMYD-1090 Rice Lake, WI; and KYCR-1570 Golden Valley, MN — from five years ago: Finally landed my first CA station, KFI-640. July highlights — from one year ago: New stations included WCAZ-990 Carthage, IL and KLDD-570 Dallas, TX — from seven years ago: returned here from vacation on July 31, tuned to WOW-590, and heard... COUNTRY!!! As recently as one week earlier, this had been a great CHR station! Why, oh way, did they do this to me? That's radio, I guess. See you all in Topeka. 73.

G. Harley DeLeurere - P.O.Box 10 - Hendricks, WV 26271-0010

This is just a quick Musing to ask kindly if anyone has the correct address for WIVK (990) of Knoxville, TN. Also yesterday morning I heard the announcement "WIVK-FM", which was followed by other call letters. Thanks. [I guess, Harley, the address in the log is no good huh? That's the latest one we show, also I take it the station is on the air, so delete the 'SILENT 8/88' in the schedule column -mk] [This brings up a good point about the accuracy of the log book vs. what you know. We get a lot of letters and calls by you listeners telling us that station so-so has changed info as compared to the log and want to know why we still are printing the old info. Well, folks, if you don't tell us we can't make the changes! So please, let us know when there is a change in the stations you listen to daily or that you catch while DX'ing. Thanks, gang. -mk]

WGHB

CHRISTIAN RADIO FOR EASTERN NORTH CAROLINA
1250 AM 5000 WATTS

Pete Kemp, KZ1Z - P.O. Box 73, Bethel, CT 06801

Greetings all... The Guinness Book of World Records has recognized "Rambling with Gambling", heard on WOR-610, as the longest-running radio show in history, having just completed its 20,000th broadcast. John B. Gambling started the show back in 1926 with John A. taking over the reins in 1958 and John R. joining in, in 1985 ... Garrison Keillor has decided to return to the airwaves in a new show tentatively entitled "American Radio Company of the Air" ... WUTK has joined the 25-affiliate Business Radio Network. The show will air from New York ... WCAU has dropped its morning news block and has gone all-talk ... WXKS, in Boston, has switched from a '60's-'70's music fare to one focusing on the '30's, '40's, and '50's ... KWWJ has signed a three-year contract to carry the Detroit Lions football games ... WLAD's evening talk block is carrying the Sun Radio Network programs ... WNWS is now carrying the Paul Harvey and Sally Jesse Raphael Shows from ABC ... WRCQ-910 has changed its call letters to WNEZ. They are currently programming soft music like their FM sister WRCH-FM. Both stations were to fine tune their formats on July 3, introducing more vocals and popular musical selections to attract a younger audience... Advertisers are taking a much closer look at the programs they are sponsoring. While TV has been subjected to this pressure of late, the ABC Radio Network has recently aired a Barbara Walter's special on the controversial subject of abortion. The advertisers stayed away, but ABC said they would NOT be intimidated airing the show anyway... The White House has put forth the name of Alfred Sikes to be the new FCC Chairman... With recent events in China fresh in our minds, it is interesting to note that during the June 2nd to 11th period the CBS radio Network issued 116 special on-air reports... Lee Coffee has returned to the WEW-AM fold in St. Louis... The oldest affiliate of the NBC radio Network, WGY, in Schenectady, has decided to sever its ties and join up with the CBS radio Network effective September 18th... Jon Bauman, "Bowzer" of ShaNaNa fame, will host a new syndicated 2-hour radio show titled "Bowzer's Golden Oldies Countdown" commencing this October... WGST, in Atlanta, is currently simulcasting on both 920 and its new frequency 640 KHz. That should temporarily boost their ratings... WFIL has dropped its 2-year programming of satellite fed oldies to simulcast its FM sister WFAZ's soft rock format... Loyola University has sold WWL-870 in New Orleans. It is Louisiana's oldest radio station, having gone on the air in 1922... WDGY will be the flagship station for an 80-station net to handle the Minnesota Timberwolves professional basketball

team games beginning in the fall... Al Ford, WFLA's Helicopter Traffic Reporter, and a former Tampa Police Officer, reported seeing a UFO while on the air May 4th... WISN's sports director Bob Dolan is hosting a weekday sports-talk show from 6 to 7pm, moving Sally Jesse Raphael to the 7-9 spot... WLZR will carry all 11 Norte Dame's football games in the Milwaukee area... Computerized radio addicts should note that Kenwood now operates a phone BBS service. It accepts 300-1200-2400 baud rates and operates from 1700-0800 daily and Friday 1700 to 0800 Monday mornings. All times are P.S.T. They have a number of files containing equipment modifications and related goodies... So much for now.

Paul Swearingen - Convention City, USA

By accident, I happened to catch the Dick Cavett show on CNBC (Consumer News and Business Channel) on cable TV July 12; for some unknown reason, he allowed Howard Stern to appear on his show. I had only heard brief excerpts of Mr. Stern's show and read a few accounts about him, and I've withheld comment based only on second-hand hearsay. But now that I have viewed, first-hand, Mr. Stern's antics, I can report safely that I discern two differences between Mr. Stern and a maggot: Mr. Stern has a bigger mouth, and a maggot has a smaller ego. Radio does not need the likes of Mr. Stern; dead air would be preferable. Nevertheless, the crowd of young broadcast majors who jammed the studio seemed to hang on to every word from Mr. Stern (Dick Cavett barely managed to interrupt Mr. Stern's monologue for a half-dozen questions during the half-hour show), showing that Shock Radio is indeed profitable for those stations which choose to pander to the lowest common denominator. I'll stick with family-oriented David Lawrence on WDAF-610 mornings, thank you.

Noted KEWT-1440 off 7-15, around 11 pm, but they were back by 11:30. Also noted an apparent off-frequency signal on @682, hetting KFEQ. Any ideas? KFFI-1330 now seems to simulcast KXLK-105.3 24 hours. When is my old favorite WLS-890 going to get a programming format? What a sad spectacle ...

The Macintosh Plus and 20 mb hard disk are up and running (anyone want to trade ideas and programs?), but I've discovered that the Mac generates much more QRM on the radio than the Commodore 64 did (until I turned on the printer). Can't see how I'd ever be able to use shortwave receiver-controlling software. But then, no one makes any to run an HQ-180, hi.

The convention plans are coming along nicely, thank you. A few suggestions for snacks have been noted, but I still need some trivia questions ... one or two per person would be just fine. But they need not be as esoteric as this one ... What station moved from Lawrence to Topeka? (Answer next issue.) 73.

Increase your accuracy with your slide rule receiver

by Raymond F. Cole



Putting a really super-accurate dial on most receivers with a slide rule type dial is usually a pretty simple matter, now with the newer copying machines available at a lot of quick copy print shops that will reduce or enlarge a copy to suit.

First get a flat centimeter ruler about six inches long, either white or clear. Put it in a copy machine face down and run a copy actual size. This will become your new dial.

Then run a copy as near 10 percent magnification as you can. Check this against your new dial copy (not the ruler) and see if it shows exactly 10 divisions for every 11 (1.1 centimeters) on your new dial. If not exactly, discard it, adjust the copier and try again. This will be your vernier.

Pry out the plastic radio dial face from the front with a sharply pointed knife tip. Cut your new dial down to a narrow strip just wide enough to show the centimeter numbers and part of the millimeter division lines. Set this in place across the lower part of your old dial with a few spots of rubber cement.

Then cut your vernier about one-eighth inch wide across a little over 12 divisions (no numbers showing) out of the second copy you made. Mark every second division with a very sharp pencil, in tiny numbers, starting from the left hand mark, 10, 8, 6, 4, 2, 0. Put a drop of cement on the front face of it to the right of the 0. With tweezers put this strip in behind the dial pointer so that the 0 line is even with the left edge of the dial pointer. Align it horizontally just a hair above the new dial strip and wait until the glue dries before trying to flatten any curl in the vernier.

Your new dial will split a millimeter into ten divisions. If you are, for example, between 6.2 and 6.3 with the left edge of the pointer, and the vernier line marked 6 is the only one exactly in line with a line on the dial, your reading is 6.26. You will not use the 10 except to verify the left edge of the dial pointer. It will read 4.2 when the pointer reads 5.2.

A rectangular magnifying glass (so you can use both eyes together) saves a lot of squinting if you do a lot of careful loggings. You will find that you can consistently and very easily exactly put your dial right on any previously logged frequency - even in "the graveyard" or high end of the dial - provided no apparent frequency deviations are present. And they will show up instantly, since you will be off a division or two.

When the 'Booster' Becomes the Main Tx ... By Cary Simpson

One of the most interesting stations in the country right now is KSSA, Plano-Dallas, Texas, operating on 1600 KHz. Why?

Because KSSA operates a "little sister" synchronous booster that turns out to be the main station, while the licensed main transmitter and antenna system is used only at night.

KSSA's original installation is northeast of Dallas and east of Plano, and is beamed southwest over the city of Dallas. Its 1,000 watts covers part of the urbanized area, but doesn't penetrate the downtown Dallas area with its steel buildings and high noise level. And at night, the signal was deficient over much of the city of Dallas.

So, they received authorization for a synchronous booster to be located southeast of Dallas, and only about 4 miles from the central business district. This four tower array beams the signal north and northwest over the city of Dallas. It's located about 18 miles south of the original site.

After the installation of the booster, KSSA had massive interference problems between the original and the booster installations. However, a locking system was secured so the two oscillators are kept operating on the exact frequency. This ended almost all of the problems except the familiar phase distortion in areas where the received signals are nearly equal.

However, the FCC then made the unusual concession of granting the use of the booster transmitter/antenna only during the daytime. This effectively made KSSA a "downtown Dallas" radio station, rather than one located in Plano, which is about 18 miles north of the downtown district. Those of you familiar with Dallas know that the original downtown area is south and east of much of the new growth. KSSA uses a Hispanic format and now reaches well many of the areas where there is a heavy concentration of Hispanic people.

So, currently, the original or "main" transmitter site and equipment is operated only after sunset, synchronized with the booster, which operates both day and night. New rules of the FCC no longer require a 25 mv/m contour over the downtown business area of the city of license, Plano in this instance, so the station was able to substitute the booster as its daytime transmitter. At night, because of the higher night-limit of interference, the Plano transmitter must operate to provide primary coverage of the city of Plano with an interference-free signal. A brilliant piece of legal work in coming up with this strategy by KSSA.

It's interesting to listen to KSSA while driving around in Dallas. Where either the Plano transmitter or the Dallas transmitter is stronger, there is no degradation of the received signal. But, driving laterally through the area where the two signals are nearly equal, a lot of strange sounds come out of your radio! Some of the time, it's like the "picket-fencing" one encounters on FM; at other times, it's a rolling phase distortion that recurs every 3 or 4 seconds. In some cases there is total cancellation and a rough objectionable sound comes out.

For persons who'd be driving north to south, the distortion area might be a few blocks long. But, driving across the North-Central Expressway, it's not listenable at all.

Special thanks to Alicia Esparza, Operations Manager, KSSA, for helpful information as to the present operations of the station.

In a late development, KSSA has just filed an application with the FCC to change the City of License from Plano, Texas to Cockrell Hill, Texas. Cockrell Hill is a small town of about 3,000 landlocked within the city of Dallas. It is about 8 miles directly west of the "booster" site, and is rectly within the major lobe of KSSA's directional pattern, which consists of narrow lobes north and south, and a fat lobe directly west.

It is assumed that if this move is approved, the Plano "main transmitter" will be dropped altogether and the synchronous booster arrangement will be ended. So, if you wish to hear this unusual system in operation in Dallas, better do it quickly.

National Radio Club Topeka DXCon September 1-4, 1989

Make plans now for the most affordable, the most fun, and the most family-oriented DX vacation you've ever had!

The National Radio Club's 1989 Convention will be held in Kansas' largest convention hotel, the Downtown Topeka Ramada, which has 430 rooms available. The hotel's Executive tower overlooks the city, and rooms surround the Courtyard, the enclosed 14,000 square-foot replica of New Orleans' French Quarter. The Courtyard's two restaurants, Le Flambeau and the Orleans Cafe, set the standard for dining in Topeka, and if Cajun Creole is one of your favorite cuisines, you'll find it here. Many other restaurants, and attractions are within walking distance.

As added attractions, Topeka's famous Railroad Days celebration is held every Labor Day weekend at nearby Forbes field, close to the Combat Air Museum. Parades, races, free entertainment, a carnival, model and full-size trains, an Intertribal Indian Powwow, arts and crafts, and children's activities will fill the weekend. *Secondly, Ringling Brothers/Barnum and Bailey Circus will be in town that weekend, and thirdly, the new Heartland Race Track will host a Superbike challenge.* Of course, other Topeka attractions such as the capitol building, the Kansas Museum of History, the historical Ward-Meade home, the World Famous Topeka Zoo, and many other sights await you and your family during the times that you don't wish to talk DX ... and to help you to get to them, a free bus ticket is part of your convention package. Also, non-Kansans get to participate in the Linger Longer program ... when you stay overnight in a Kansas motel, eat in a registered restaurant (you'll automatically qualify for these), and take in a scenic or historical site, you'll receive a Coleman cooler ... free!

Tentatively, the convention itself will include an antique radio display, local radio personalities, trivia quiz, a station tour, a beverage party, displays, tech talks, free materials, and goodie bags, plus the traditional business meeting, banquet, auction, and Sunday brunch.

Here's a list of typical expenses you'll need to know about:

Pre-registration: **\$26.00** (includes the Saturday-night banquet, @ \$12.30). Deadline: August 17; from August 11-Sept. 2: **\$30.00**.

Hotel reservation: (1 or 2 in room): **\$41.80** per night, including \$38 + all taxes; deadline is August 17. A reservation card is included in your convention information package, or call (913) 233-8981 and mention "National Radio Club Convention" to obtain this special rate. 24-hour limousine service between the Ramada and Forbes field is available; ground shuttle service from/to KCI Airport is **\$20.00**. Direct airline service to Forbes field may be a reality by August, as the city is negotiating with American and at least two other airlines; otherwise, air shuttle service is about **\$35.00**. Both the bus station and railway station are within two blocks.

Sunday Brunch: **\$6.95** (senior citizens **\$6.25**, children **\$3.75**) plus tax and tip. We have the best spot in the courtyard reserved for 10:30 am. (*Pay then.*)

And that's about it! Snacks and beverages will be provided in the meeting room (which is twice the size of what you may be used to).

To pre-register, send a check payable to "National Radio Club" for \$26 per person by August 17 (or use the NRC credit card service) to Topeka DXCon '89 - P. O. Box 5711 - Topeka, KS 66605, plus your name, address, phone number, expected time of arrival/mode of transportation, and suggestions for beverages and snacks. (Pay separately for the hotel room and brunch after you arrive.) Also, if you could man the registration table for an hour or so during Friday or Saturday, or present a 15-minute tech (or non-tech) talk, or even include some trivia questions, we'd be grateful. See you there!

NATIONAL RADIO CLUB Inc. VISA/MASTERCARD CREDIT CARD ORDERS

Due to popular demand, the National Radio Club is proud to announce that with the cooperation of a local business the NRC can now accept Visa/Mastercard credit card orders. You may use your credit card for:

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By Mail. When ordering NRC Products or Subscriptions send your credit card order to NRC HQ, Box 24, Cambridge, WI 53523 0024 and NOT thru the normal channels. This will ensure timely processing of your credit card order.

The credit card line will be closed temporarily from August 18, 11 pm, to August 27, 11 pm, and August 31, 11 pm to Sept. 4, 11 pm, C.L.T. Thanks for your patience.

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