



DX NEWS

*the magazine of the
National Radio Club*

— SINCE 1933 —

Volume 55 Issue 16 Monday, January 25, 1988

You know, I also picked up WBZ on my electric fry pan.

Two sets of Musings this issue. The one that should have been in last weeks issue can be found on page 18. This weeks can be found starting on page 20.

1988 Frequency Check List is currently be compiled by Dave Schmidt and John Malicky. If you have any information that would be of use to the Frequency Check list then drop a line with the station info to Dave Schmidt, 42 Chelwyne Road, Castle Hills, New Castle, DE 19720-3516

DXChange Got something to sell, trade or want? Drop us a line and we will place your request or item in DX NEWS.

When ordering Log Updaters keep in mind that you also need Updater #1, #2, and #3 to have the continuing set of updaters for the 8th Edition AM Radio Log.

And speaking of the AM Radio Log, it is still available. \$10.95 USA, \$11.95 Canada, Non-members add \$2.00 to the price. Foreign orders see your local club or write the NRC Publication Center (address on back cover).

Need a new Mug? Nope, not talking about your face. We can't help you in that department. We can help you in the Hot Drink department. Your favorite Coffee, Tea or Hot Chocolate will taste better in a new 9 ounce white glass mug. Just \$5.50 U.S. addresses, \$6.25 Canada/Mexico addresses. Send check or money order (NO cash please) to the NRC Publication Center (address on back cover).

DXers' Tour of Ecuador, Sponsored by ANDEX International of HCJB, Quito Ecuador. March 27 thru April 9, 1988. Cost of tour includes air fare from Miami to Quito and return, meals and lodging in missionaries' homes or in hotels, and tour arranged transportation. Items NOT covered are your beverages (other than tea and coffee) and dirport departure taxes. Total price is US\$1199 per person. A US\$50.00 deposit is required in advance to hold your place on tour. Remember to bring your radio. Passport is required for U.S. and Canadian citizens, no visa is required. More details are available from us or HCJB.

LOOK INSIDE

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| 24....\$9.95 WBZ signal trapper | | |

AM SWITCH

② Jerry Starr, c/o WHOT Radio, 4040 Simon Road, Youngstown, OH 44512

CALL LETTER CHANGES

OLD CALL:	NEW CALL:	OLD CALL:	NEW CALL:
780 WBBO NC FOREST CITY	WHCH	1360 WXKY KY MILAN	WHYH
1230 KYKC SD SIOUX FALLS	KKFN	1550 WMOO AL MOBILE	WLIT
WMNB MA NORTH ADAMS	WNAW	KRGO UT WEST VALLEY CITY	KZOO
1340 WKRZ PA WILKES BARRE	WPLJ	1600 WTRV MI MUSKEGON	WSNX

APPLICATIONS FOR NEW STATIONS

NONE

GRANTS FOR NEW STATIONS

NONE

APPLICATIONS FROM EXISTING FACILITIES

NONE

GRANTS TO EXISTING FACILITIES

970 KIXL TX DEL VALLE: RELOCATE XR
1110 WCBR KY RICHMOND: RELOCATE XR

OTHERNESS

660 WMIC MI SANDUSKY: STATION IS HERE EX-1560 kHz
740 WRPX WI HUDSON: STATION IS SILENT
840 KVEG NV NORTH LAS VEGAS: TARGET DATE IS "MID-FEBRUARY 1988"
1040 WOKT KY CANNONBURG: NEW STATION IS ON THE AIR (FIRST DAY 12-23-87)
1210 CFYM SK KINDERSLEY: NEW STATION IS ON THE AIR, SIMULCAST WITH CJYM-1330
1230 WKHT CT MANCHESTER: PROGRAMMING FROM THIS STATION BEING SIMULCAST ON WNAQ-1380 "EXCEPT FOR LOCAL SPORTING EVENTS"
1320 CJSO PQ SOREL: STATION IS SILENT FOR GOOD, HAVING MOVED TO FM
1330 KDRQ ND WISHEK: SILENT STATION IS BACK ON THE AIR
1340 KSEK KS PITTSBURG: STATION IS SILENT
1390 KMDK CO DENVER: SILENT STATION IS BACK ON THE AIR WITH TALK/MEDICAL NX
WAPR FL AVON PARK: STATION IS SILENT
1520 WGNB FL SEMINOLE: STATION IS SILENT
1530 WXEZ FL BABSON PARK: STATION IS SILENT

BERMUDA STATION

IN THE 12-14-87 DX NEWS WE REPORTED THE TENTATIVE PLANS OF A GROUP OF US BUSINESSMEN TO PUT A HIGH POWERED STATION ON THE AIR IN BERMUDA AIMED AT THE EAST COAST OF NORTH AMERICA. WE RECENTLY HAD AN INTERESTING PHONE CONVERSATION WITH THE KEY PERSON OF THIS GROUP AND HERE IS THE STORY. FIRST, THE APPLICATION HAS BEEN TURNED DOWN BY THE BERMUDAN GOVERNMENT. THE PRIMARY FREQUENCY WAS 1610 WITH A SECONDARY CHOICE BEING 1620 KHZ. MAXIMUM POWER WAS 500000 WATTS WITH A SOPHISTICATED SIX-TOWER ANTENNA AIMED TOWARD NYC. EFFECTIVE RADIATED POWER FROM THIS SYSTEM WAS CALCULATED TO BE FOUR MEGAWATTS! A PORTION OF THE COSTS OF BUILDING AND OPERATING THE STATION WAS TO BE PROVIDED BY THE BERMUDA DEPARTMENT OF TOURISM. A "CHANGE OF COMMAND" IN THIS DEPARTMENT SEEMS TO BE THE ROOT REASON FOR THE DENIAL OF THIS APPLICATION. THE PLANS FOR THIS STATION ARE NOT YET DEAD BUT DEFINITELY ON THE "BACK BURNER." WITH RESPECT FOR CONFIDENCE WE WON'T PRINT THIS PERSON'S NAME BUT CAN SAY THAT HE IS A MEMBER OF NRC AND WE SHOULD HAVE A PIPELINE FOR INFO IF THIS PROJECT IS REACTIVATED.

THANKS TO CONTRIBUTING MEMBERS: WAYNE HEINEN, TOM LYKINS, ANDY RUGG, JOHN BOWKER AND DON VOORHIES FOR THEIR OTHERNESS CONTRIBUTIONS THIS ISSUE!

73 AND GOOD DX, *Jerry & BKF*

JERRY STARR & BUFFALO K. FOONMAN

DOMESTIC DX DIGEST - EAST ③

William Hale
2610 Farm To Market Road, Johnson City, NY 13790

MEDIUM RAVE RAMBLINGS

■ **Dave Schardt** checks in with some info on regional daytimers staying on after 'their bedtime' with reduced power levels. Many of these are even LOWER than the issued LSS+2 power levels. As an example, WJBR-1290 Wilmington, DE is now MSP w/500 watts PSA/2500 days/150 LSS+2/32 balance of time. They ARE using it but do have problems 3 miles out. Another one to be used is WSER-1550 w/1 watt. They are going to use it from LSS 'til 10 PM. WNRK-1260 will be running 500 PSA/1000 days/250/125/42...this should make the AM band interesting! For those in the east still needing VT, WMT-620 has been (in) almost nightly, pattern askew? And...add to the F/C list, WHOL-1600, Monday after 3rd Sunday, 0545-0600 w/TT...new as of 1/1/88.

■ **Phil Boersma** (all-night person at WKJR-1520/WQWQ-101.7 Muskegon, MI) writes to say that WSNX-1600 (ex-WTRV) Muskegon (a competitor, no doubt) has dropped the Oldies Channel satellite service for a 100% simulcast of WSNX-FM. Top o' the hour ID is 104.5 The Sunny FM, WSNX, Muskegon-Holland, which is not legal for either AM or FM. AM 1600 is never mentioned.

■ Attn: **NJ/MB: John Wilkins** writes to say that the logging of KBNO-1220 (Issue 12) cannot be. KBNO, a Denver local, is all Spanish (as in Log-WRH), playing latin pops, salsa & cumbia. Phone number is totally wrong, too. Sharpen up that eraser, **Niel**. John also adds that he doesn't think there is a HS team in CO known as the San Jose Bandits.

■ Referring to the recent question raised about there being two CKOs, one in Toronto and another in Pointe Claire, **Greg Coniglio** writes...this is correct (CKO in Pointe Claire) and it is part of the CKO News Network in Canada. It has an FM repeater in many cities. The three I hear are CKO1 Ottawa, CKO2 Toronto and CKO3 London. I recently heard CKO-1470/CKO2-99.1 Toronto. Thanks, **Greg**. Hopefully, that solves that question.

■ **Jay Novello** and I were discussing what we both thought was a reference sometime back, either in Musings or an article in DX News, to a "digital" Superadio. Does such an animal exist?? Or is there a modification that can be done to that fine radio? Comments, please!

SPECIAL

540 KOFT TX FERRIS - did not make 12-25 tent s/on date listed in AMS; as of Sun, 1/3/88 still no sign of strn (WW-TX)
660 WMIC MI SANDUSKY - 1/2 0700 noted here w/nx, MI road rpt, ID WMIC-AM & WTVG-FM; %/WNBC; gone @ 0710; ex:1560 (DV-NY)
KSKY TX BALCH SPRINGS - 12/28 noted off @ 0015 tune-by this evening, usually on until 0100 (WW-TX)
820 WIGT NY HORSEHEADS - is indeed on *The Light 820* and other similar slogans; mx is light AC Oldies; excellent signal here days; fair nights (WRH-NY)
840 WHGH GA THOMASVILLE - 12/23 1220-27 fair w/GOS; new strn now on the air (MD-GA)
870 KFJZ TX FT WORTH - 1/1 drops B&D/MOR format for SS w/Radio Fortuna IDs; EE & SS 1st IDs are hrd @ the top o' the hour (WW-TX)
980 CFFX ON KINGSTON - these are CLs hrd, not those reported in Issue 12 (CC-PA)
1000 KBIB TX MARION - 2 of their towers are on residential property, and had to come down!!; looks like it will be quite awhile before they get on (AB-TX)
1380 WNAQ CT NAUGATUCK - 12/4 0656 noted simul w/WKHT-1230; call to WKHT confirmed same (DV-NY)
KBOP TX PLEASANTON - has extended their b'cast day to 0100 w/290 watts PSSA; sked is SS from s/on to 0800 (I think he means 2000-WRH), then EE to s/off; AM will be AC while FM remains C&W; info from *Bubba Redding*, owner (JB-TX)
1460 KSO IA DES MOINES - 1/6 0317-0400+ noted now running MCRN on Iowa's 1st AM \$, over 66 yrs of service on KSO, Des Moines+AP Net Nx; is a night regular (WPF-IN)
1490 KVOZ TX LAREDO - engineer tells me they will move to 890 as soon as they sell 1490; could be a month or so (AB-TX)
1570 KTER TX TERRELL - 1/1 drops Traditional & Southern GOS ex/preaching for Classic Country mx format; noticeable increase in Terrell-area nx & info; strn has always signed off @ 1800, even during summer months; has earlier s/off in winter (WW-TX)
CFOR ON ORILLIA - 1/6 0343 running the Coast to Coast pgn #CKSO-790/CKLY-910, so may have dropped C&W @ least @ night; o/CKLM/CHLO/MUSH (WPF-IN)

UNIDs & UNIDs IDd

1480 CKAN ON TORONTO - UNID hrd by CC-PA (Issue 12) could be this; Toronto often referred to as "Metro" (JR-NY)
CKAN ON TORONTO - UNID hrd by CC-PA (Issue 12) is this; they use *Metro North R.* as a slogan (referring to N. Toronto Suburbs) and I have hrd lots of OLD here (GC-NY)
1530 WJDM NJ ELIZABETH - UNID hrd by GC-NY (Issue 12) could be this, which I hrd not too long ago w/OLD, Shadow Trfc & Classic Hits IDs (JR-NY)
1540 CHIN ON TORONTO - UNID hrd by CC-PA (Issue 12) could be this, which is now on @ nite (JR-NY)
CHIN ON TORONTO - UNID hrd by CC-PA could also be these guys (format: ethnic) (GC-NY)
1600 UNID ?? - 12/29 1715 s/off mentioning *Butler Broadcasting* (JR-NC)

TIS & OTHER

530 NSE940 TX DALLAS-FT WORTH AP - 1/2 0450-0600 hrd w/4 min 20 sec test loop w/trfc/parking info by male & female announcers for D/FW airport: You're tuned to information radio NSE-940 on 530 on your AM radio dial. Welcome to D/FW AP, your transport to the world; TIS DX is possible on the Superadio!! v/happy w/logging (AB-TX)

MIDNIGHT TO WIDDAY

530 CJFT ON FT ERIE - 1/2 0123 MOR/POP mx; Right here on 710 CJRN and 530 CJFT; "NB" beacon QRM (HF-MI)
550 WSWA VA HARRISONBURG - 12/31 0553 way on top Broadway (VA) Bank ad, wx; ID VA's Information Superstation, WSWA (DV-NY)
600 CFCH ON NORTH BAY - 12/12 0635 ads for warehouse sale & auto dir; DJ:6:36 at 600 CFCH+2 ROK Oldies, TC 6:43 @ 600 CFCH, ment of snow temp @ zero; more ROK; new; v/poor->poor; unIDs % w/ripply fading (DP-IL)
830 KFLT AZ TUCSON - 12/30 0713 REL Back to the Bible ad; ID This is KFLT, Tucson folod by pattern change @ 0715 (JB-TX)
890 WQIS MS LAUREL-HATTIESBURG - 12/27 0801 fair WLS nulled; trad GOS mx, lgl ID, services from Peace Temple Church; 1st-timer (WW-TX)
960 KMA IA SHENANDOAH - 12/27 0805-08 above mess WABC Nk, then area wx + church canx notices due to bad wx (WW-TX)
990 CBW MB WINNIPEG - 12/27 0808 fair 9others Wwx for Winnipeg & Greater MB, then Christmas or REL-type mx (WW-TX)
1060 KYW PA PHILADELPHIA - 12/31 0828 nx fade in/out XEEP; promo, ad; KYW time is 6:35-KYW News Time (JB-TX)
1210 WGSF TN ARLINGTON - 12/27 0838-45 good yearly 80s OLD (the best-WRH) incl Billy J. Kramer & Dee Dee Sharp; ment of Memphis-area businesses & churches; request line is 867-2577; 1st-timer (WW-TX)
1220 WJUN PA MEXICO - 12/22 0624 fair Wsps/tlk; TC:0624 on JUN (DV-NY)
KVSA AR MC GEHEE - 12/27 0844 fair 9others, no sign of regular KZEE; regional nx summary, Ford dir ad & This is KVSA, 1220, McGehee, located on US Hwy 65 between McGehee & Vermont ID ->children's GOS hour pgm; 1st-timer (WW-TX)
1280 CJMS PQ MONTREAL - 1/2 0059 FF; lengthy SID w/CL; nx 0100-05-EE OLD (HF-MI)
WGBF IN EVANSVILLE - 12/30 0546 You're listening to WGBF, where you hear real rock; ad for Crazy Larry's Water Beds in Owensboro 451-4134 @ 0550; WGBF AM/FM Evansville 2 @ 0600 (JB-TX)
1300 WFFG FL MARATHON - 1/2 0651 C&W & now it's time for the WFFG weather break, wx rpt for Homestead to Key Largo to Cuba @ 0655-C&W (JB-TX)
1340 WBRK MA PITTSFIELD - 1/2 0535 fair Wnx, lcl wx, IDs (DV-NY)
1370 KDTH IA DUBUQUE - 1/1 0624 promo for African Relief, Waddress in Boston; anti-drunk driving promo from MBS @ 0630-America in the Morning pgm (JB-TX)
1410 WELM NY ELMIRA - 12/26 0553 good WID 1410 AM \$, WELM (DV-NY)
WHAG MD HALFWAY - 12/26 0600 broke thru WELM Wdual ID Wagerstown (DV-NY)
1420 WTCR WV KENOVA - 12/18 0630 ending C&W mx->PH (HJH-PA)
WCED PA DU BOIS - 12/19 1035 What's Happening In Rock, locally produced pgm; fair (HJH-PA)
WASR NH WOLFEBORO - 12/22 0810 weak Wlcl nx, then SNN; many ments of Lakes Region & ad for Wolfeboro Tru-Valu Hardware (HJH-PA)
WLNA NY PEEKSKILL - 12/27 1000 loud WOLD ROK, then lcl nx (HJH-PA)
1480 WTDY WI MADISON - 12/27 0124 WTDY Crime Stoppers; in/out WSSer, assume WJIT (HF-MI)

WIDDAY TO MIDNIGHT

540 WETC NC WENDELL-ZEBULON - 12/27 1820 must be on @ nite now (JR-NC)
KNOE LA MONROE - 12/26 2236-39 poor->fair XEWA nulled; Carolyn Michaels Wmore country mx on \$ 54, KNOE->Janie Fricke rod (WW-TX)
550 WDUW GA GAINESVILLE - 1/4 1831 Wlcl nx; on top of WKRC & in WIND-560 splash; 1st new one in '88 (WPF-IN)
560 WFIL PA PHILADELPHIA - 12/25 2155 W78ers BKB; Sixers BKB Network...your radio home of the 76ers, AM-560 WFIL; La Binga Restaurant ad; poor (HF-MI)
WFIL PA PHILADELPHIA - 1/5 2100 WR&R Oldies WBrad Pierce, Duration ad, promo for condos in CO; good (RB-NY)
KLVI TX BEAUMONT - 12/28 2241-43 poor WunID SS & attenuated KWTO who usually dominates; Rockets vs Dallas BKB/KTRH net feed, quick ID in break; KLVI always seems to be reported by those in Midwest & East...a rare visitor here (WW-TX)
WVOC SC COLUMBIA - 1/1 2000 annot The flagship stn of the SC Gamecocks,560, WVOC, Columbia; ex:WIS (CC-PA)
580 WHP PA HARRISBURG - 1/2 2127 promo for News 21 (WHP-TV) Sps (CC-PA)
580 WARM PA SCRANTON - 12/29 2000 good WID as Your Stn for Sps, WARM-590; seldom hrd here (DV-NY) (C'mon down south here where they are a regular, hi-WRH)
WEEI MA BOSTON - 12/31 1759 fair WTC, nx hdlines, wx, ID This is NewsRadio WEEI, Boston. It's 6 O'Clock (MS-ON)
600 WFST ME CARIBOU - 12/20 1840-1700 fair level @ times w/Pentecostal service from Presque Isle had country GOS-type mx; couldn't pull ID; no sign of WICC (HJH-PA)
WMT IA CEDAR RAPIDS - 12/26 2308-13 WKTBB/WREC w/wx for IA/Midwest, then lcl tlk/mx show w/ment of Chuck Berry, Pat Boone, A&M Records -Beatles

singing Love Me Do (WW-TX)
610 WTVN OH COLUMBUS - 12/9 1637 Michael Bolton song;DJ: 61 WTVN, it's 20 before 5 Farmers Insurance ad Wlcl tag;Yellowbird trfx rpt; poor Wco-channel QRM; ripply fading (DP-IL)
630 CJET ON SMITH'S FALLS - 12/29 2115-2210 GOS pgm to 2145, C&W mx to 2200; IDs as CJ-Country; CBC Nx @ 2200, CBC Primetime pgm @ 2205 (TF-CT)
640 WOI IA AMES - 12/9 1852 Business Update pgm from APRN, broke away for Iowa Biz nx then back to Update's Final Bell & wrap-up; slgn This is AM 64, WOI Ames-Des Moines, the IA State Radio; Monitor-radio; IA #5; poor Wco-channel QRM(DP-IL)
KFI CA LOS ANGELES - 1/2 2158 Wannet The Golden Oldies Show is brought to you by California's largest ???-HOLD rds; poor u/WHLD/CMBB; new for state #30 (CC-PA)
650 WKKQ MN NASHWAUK - 12/31 1707 just starting to give some QRM in WSM null; is unn (WPF-IN)
680 WCAW WV CHARLESTON - 1/1 1727 C&W->wx->annct On the way, The Year In Review W Barry Kassel; good o/WPTF; lost @ pwr cut to 250 watts (CC-PA)
730 WDOS NY ONEONTA - 12/27 1857 mx by Elvis, female DJ, IDs as AM-730; way o/WPIT (TF-CT)
750 WSB GA ATLANTA - 1/5 2120 listener call-in show discussing racial problems; poor->fair (RB-NY)
760 KMTL AR SHERWOOD - 12/31 1713 good->strong in WJR null Wbluegrass-REL mx (WPF-IN)
780 WCKB NC DUNN - 12/18 1656 fair WIDs/lcl nx/Dunn C of C & Hamett Cnty Sheriff's rpt; no WBBM; new! (DV-NY)
820 WOSU OH COLUMBUS - 1/3 1843 end of Bluegrass Ramble-s/off WOSU-FM 89.7 invite (CC-PA)
840 WHAS KY LOUISVILLE - 1/5 2125 Fashion Post ad; call-in, re:Accrued vacation benefits; good (RB-NY)
850 WIVK TN KNOXVILLE - 1/1 1742 CLS-C&W; weak o/WRMR (CC-PA)
870 WQRX AL VALLEY HEAD - 1/1 1749 Smokey Robinson tune->CLS, Beatles tune; v/good o/WWL (CC-PA)
WPRQ TN COLONIAL HEIGHTS - 1/4 1729 Cellular One Mobile Phone ad Wphone #s for info for TN & VA->Rio Grande Restaurant ad->REL mx (CC-PA)
880 WBKZ GA JEFFERSON - 12/26 1730 strong u/WCBS Ws/off & slgn Z-88; ex:WEEB (HJH-PA)
WRFD OH COLUMBUS - 1/3 1856annct AM 880, WRFD->C&W; good o/WCBS (CC-PA)
910 WJWC TN JOHNSON CITY - 1/4 1712 annct AM 910 WJWC->C&W; fair o/CKLY (CC-PA)
WHSM WI HAYWARD - 12/31 1717-19 on top Wads & WHSM Sundown Wx (10 -14F NY Eve, hi of Of on NY Day, signing off @ LSS 4:19, odd!;WFM 101.7 invite, ment of PSA of 500 watts not listed in log (WPF-IN) (so write it in!, hi-WRH)
920 CFLS PQ LEVIS - 1/5 2135 FF; CLS @ 2141; AC mx incl Just Like Heaven in EE (RB-NY)
940 WKYK NC BURNSVILLE - 12/13 1800 wx rpt folod by lengthy s/off; no SSB, but used Climb Ev'ry Mountain (HJH-PA)
950 WCTN MD POTOMOC - 1/3 1713 lcl nx, DJ gave phone #, then talked about NFL playoffs into REL (CC-PA)
WBBF NY ROCHESTER - 1/2 1713 Wad, Amerks HKY promo, Solid Gold 95 WBBF; rare to this so late, usually WJW/WQBE by then (GC-NY)
1030 WYSL NY AVON - 12/27 1620-30 NOS & BBD mx, full-data s/off @ 1630 folod by instrumental SSB; WNBZ (TF-CT)
1080 WTIC CT HARTFORD - 12/31 1741 L&C, way atop Wtrfc rpt (MD-GA)
1110 WBT NC CHARLOTTE - 1/5 2205 WHello, Henry tele-tlk show; #1-800-338-0323 (RB-NY)
1120 WYNO OH NELSONVILLE - 1/3 1728 fully-detailed s/off (CC-PA)
1140 WSAO MS SENATOBIA - 1/1 1906 state nx Wmany MS ments; v/weak u/WRVA (CC-PA)
WRVA VA RICHMOND -1/5 2210 Wnat'l nx; WRVA Moneyline; poor->fair (RB-NY)
1150 WIMA OH LIMA - 12/13 1850 loud WChristmas mx & contest info (HJH-PA)
1190 WQOW IN FT WAYNE - good WTalknet (RB-NY)
1200 WBSZ PA NEW CASTLE - 1/5 1713 ending lcl nx, then Back to 30 yrs of hits-Chicago tune; mixing WKFNW, no CFGO/WOAI yet; nice to get a new one on freq b4 Chicago signs on; if I pick up another "BZ" Call, I'll scream, luckily I haven't(WPF-IN)
1210 WBIU LA DENHAM SPRINGS - 12/31 1810-25 Bayou 12-10 L&C o/WCAU WOLD; no sign of much-wanted KGYN (MD-GA)
1230 WESX MA SALEM - 12/8 1820 briefly on top WID; call-in #744-1230 (DV-NY)
1240 WVOE NY LIBERTY - 1/3 1838 briefly atop Wad for ski shop in Monticello (TF-CT)
1250 WIPS NY LAKE GEORGE - 1/3 1845 full-data s/off atop freq, mentg studio location on Main St & Lake George Ave (TF-CT)
1280 WCHV VA CHARLOTTESVILLE - 1/7 1706-15 good Wmassive winter storm warning wx, school & other closings; WunID ROK OLD stn (WRH-NY)
1270 WKBF IL ROCK ISLAND - 12/10 1859 female WID AM 1270, WKK??; CBS Nx live (7 sec ahead of WBBM); wx, DJ: AM 1270 WKBF, then mx; new; v/poor in WACA null; lcl QRM, fading i/o yo-yo-like (DP-IL)
WTSN NH DOVER - 12/31 1752 fair Wwx 32F at TSN (MS-ON)
1290 WVOV WV LOGAN - 12/13 1710 C&W mx, then sps & wx rpt (HJH-PA)
WKNE NH KEENE - 12/31 1750 good Wwx 4cast 25F in Keene, ad for Troy Auto Parts & Service Center (MS-ON)
WCHY GA SAVANNAH - 12/27 1725 WY-94 slogans (JR-NC)
WKLB KY MANCHESTER - 1/3 1744 female DJ WThere's the Nitty Gritty Dirt Band @ WKLB Country High (CC-PA)
WFIG SC SUMTER - 1/3 1748 annct This is Phil Robinson asking you to keep it right here WFIG+wx (CC-PA)

1300 WXPX PA WEST HAZELTON - 1/3 1648 atop freq WROK mx, IDs for 13-X, WXPX; way o/WAVZ (TF-CT)
 WFBR MD BALTIMORE - 1/1 1928 talk show Wphone # 243-WFBR (CC-PA)
 WKCY VA HARRISONBURG - 1/3 1758 anncst This is the valley's country leader, \$ 13, WKCY in Harrisonburg-NBC Nc (CC-PA)
 1330 WOLM MA WALTHAM - 12/27 1800 fair WID:WOLM AM-1330 Waltham-Boston, a service of (missed name) (MS-ON)
 1350 CJLM PQ JOLIETTE - 12/24 1552 fair o/CHRO Wnx, ment of Joliette (MS-ON)
 WGAD AL GADSDEN - 12/27 2105 Wseveral IDs: Talkradio pm (JR-NC)
 1360 CKBC NB BATHURST - 12/27 1600 fair Wsps, ID This is CKBC, please stand by as we change from daytime to nighttime broadcasting patterns, we'll be right back with the nx (MS-ON)
 1370 WMNY SC ELLOREE-SANTEE - 1/3 1733 Ws/off u/WKIK Wbig WIXZ QRM (CC-PA)
 WSPD OH TOLEDO - 1/5 1726 WEric Carmen tune-DJ tlc-ID>Lionel Ritchie (GC-NY)
 1380 WDOT VT BURLINGTON - 12/26 1658 good WJerry Lee Lewis' Great Balls O' Fire, ID @ 1700 WDOT Burlington, it's 5 O'Clock+ABC Nc (MS-ON)
 1400 WSTC CT STAMFORD - 12/18 1615 surfaced Wtrfc report/ID (DV-NY)
 WMAN OH MANSFIELD - 1/5 1654 poor and soon gone; tlc abt school in Lexington (OH)-> mx by the Commodores; 1st-timer, alone in mush (WPF-IN)
 CKCB ON COLLINGWOOD - 12/29 1702 1st nx in WPHD null (GC-NY)
 1430 WNJR NJ NEWARK - 12/24 1850 fair WID WNJR AM 1430, New Jersey's Mx Stn; ad for Urbington Market, phone 688-8222 (MS-ON)
 WIRE IN INDIANAPOLIS - 1/4 1744 promo for stn contest ending Wyou could win a trip to the Bahamas from \$ 1430, WIRE (CC-PA)
 1450 WMAJ PA STATE COLLEGE - 12/28 1637 v/good w/OLDie (GC-NY)
 WDAD PA INDIANA - 12/29 1708 dominating w/CHUC (GC-NY)
 WIIN NJ ATLANTIC CITY - 1/2 1700 1st newie of '88, and a weird one! this almost sounded like a clear channel stn;it and CHUC were alone, no mush; 10-CBS Nc, yet WFPG (you lost me there someplace-WRH); the rest of the band was empty(GC-NY)
 1460 WJYA VA BUFORD - 1/4 1738 GA Net Nc-SID+OLD (CC-PA)
 1480 WSAY VA SALEM - 1/3 1904 v/good Ws/off (CC-PA)
 1520 WCHE PA WESTCHESTER - 12/28 1645 caught end of s/off WWKWB; new (GC-NY)
 WAKB NY BUFFALO - 1/5 2300 WTalknet discussing Mario Cuomo; fair-poor (RB-NY)
 1530 WCKY OH CINCINNATI - 1/5 2310 good W Talknet (RB-NY)
 1540 WMYF NH EXETER - 12/27 1700 AC mx WWPTR; ID @ :00; new (GC-NY)
 1550 CBE ON WINDSOR - 1/6 2100 Wmx, nx. & commentary on shellfish ban; poor-fair (RB-NY)
 1580 WNZI PA COLUMBIA - 12/19 1642 talk format & sign The Great Communicator (HJH-PA)
 WNZI PA COLUMBIA - 1/3 1728 nx-tlk format, frequently hrd > their LSS here, ruining a good DX frequency (GC-NY)
 CBJ PQ CHICOUTIMI - 1/6 2130 mx, tlc, mx; fair (RB-NY)
 1590 WERA NJ PLAINFIELD - 12/28 1705 = WWAQR briefly, Wnx story abt Morristown, then WERA nx-time is 5:05 (GC-NY)
 1600 WCPK VA CHESAPEAKE - 12/28 1550 WJoy-95 slogans; must be on (JR-NC) (These are correct CLs, Jim-WRH)
 WKGK VA SALTVILLE - 12/22 1705 USRN Nc-Wx for SW VA>1gl ID+C&W GOS mx (GC-NY)

GRAVEYARD SPECIAL-NEW RECORD

1400 KLIN NE LINCOLN - post 1960 - John Wilkins//Wheat Ridge, CO//444 miles

REPORTERS:

DV-NY Don Voorhies//Oswego, NY//FRG 8800 + LW
 HJH-PA Harry Hayes//Wilkes-Barre, PA//Superadio + SM-2
 DP-IL Dale Park//Evanston, IL//RS Minisette 16
 MS-ON Morris Sorensen//Kemptville, ON//ICF-2010 barefoot
 HF-MI Harold Frodge//Midland, MI//DX302 + AP4 + 185' LW
 TF-CT Tony Fitzherbert//Fairfield, CT//Superadio
 JR-NY Jim Renfrew//Rochester, NY//ICF-2010, whip
 JR-NC Jim Renfrew//visiting Raleigh, NC//ICF-2010, whip
 MD-GA Marc DeLorenzo//Warner-Robins,GA//GE World Monitor, SM-1
 WJ-TX Wally Wawro//Garland, TX//ICF-2010
 CC-PA Chris Cuomo//Verona, PA//Superadio II
 AB-TX Artie Bigley//San Antonio, TX//Superadio, barefoot
 JB-TX Jim Boehm//San Antonio, TX//R71-A + 18" Coax Loop
 WPF-IN Wendell Ford//Westville, IN//ICF-2010
 GC-NY Greg Coniglio//Clarence, NY//
 RB-NY Raymond Bauernhuber//Rosedale, NY//ICF-2010 + Shotgun Loop
 WRH-NY Bill Hale//Johnson City, NY//Delco Car Rx

73, Bill

SOME ABBREVIATIONS & SPECIAL SYMBOLS USED IN DDXD-E

TT:Test Tones OC:Open Carrier TC:Time Check QM:Interference SID:Singing ID CID:Code ID jr:jingle lc:local lg:legal ar:arabic N:news
 w:weather sps:sports HS:high school FB:football BB:baseball BKB:basketball HXY:hockey >after <before =equal with or equal to
 ||:parallel with >over/under :00: on the hour :to or into SS:Spanish FF:French EE:English POL:political GOS:gospel REL:religion
 or religious BBD:big band ROK:rock 'n' roll EZL:easy listening CW:country & western AC:adult contemporary UC:urban contemporary OLS:oldies
 tlc:talk ContChr:contemporary Christian CHR:contemporary hit radio AP:Associated Press UPI:United Press International NBS:Mutual Broadcasting
 System USRN:United States Radio Net MCRW:Music Country Radio Net MRW:Motor Racing Network SSB:Star Spangled Banner LK:Larry King BW:Bruce
 Williams PH:Paul Harvey tlc:talk s/on:sign on s/off:sign off SR:sunrise SRS:sunrise skip SS:sunset SSS:sunset skip LSS:local sunset

DOMESTIC DX DIGEST - WEST ①

Nancy Hardy, 2301 Pacific Avenue, Aberdeen, WA 98520

Here's another DDXD-West! My deadline for receiving tips is weekly (Saturdays) through February. Report!!

MIDDAY TO MIDNIGHT

1230 KZZR OR BURNS - 1/6 1955-2000 excellent with C&W music, 2000 ID by woman into AI news. Only heard once before. (NH-WA)
 1330 CJYM SK ROSEVILLE - 12/28 2105 T-40, "Your Music Network CJYM-CPYM." (WH-CO)
 1340 KSGR ID NAMPA-BOISE - 1/6 2035 oldie, 2037 ID by man into another oldie. New, ex-KXTC. (NH-WA)
 1480 KG CX MT SIDNEY - 12/28 2257 C&W music to Mutual PM News on the hour. (WH-CO)

MIDNIGHT TO MIDDAY

720 KSAH TX UNIVERSAL CITY - 12/24 1016 Spanish/Mexican, "Radio Festival" slogan o/u KDWN/WGN. (WH-CO)
 800 KDDD TX DUMAS - 12/26 0934 local weather, local spots and C&W music. (WH-CO)
 1210 KQTL AZ SAHURITA - 12/26 0726 Spanish/Mexican, "Radio Que Tal" slogan o/u KPRZ. (WH-CO)
 KPRZ CA SAN MARCOS - 12/26 0728 relig. sounded locally produced, o/u KQTL. (WH-CO)
 1230 KHAS NE HASTINGS - 12/26 0833 CBS News followed by local news and weather, local spots. (WH-CO)
 1250 KALO TX PORT ARTHUR - 12/26 0812 soul music with local DJ mixing with KXET. (WH-CO)
 1300 KOLY SD MOBRIDGE - 12/30 1018 ending local weather, into Howard Cosell "Speaking of Sports." (WH-CO)
 KVET TX AUSTIN - 12/30 1025 C&W music to 1030 KVET ID and Paul Harvey. (WH-CO)
 1440 KOPA AZ SCOTTSDALE - 12/30 1032 oldies music & local spots. (WH-CO)
 CJOI AB WETASKIWIN - 12/29 1014 T-40 music, local ads, & PSA's. (WH)
 1450 KGIW CO ALAMOSA - 12/29 1032 ending local weather into "American Farmer." (WH-CO)
 1470 KWIV WY DOUGLAS - 12/25 0016 C&W and Christmas carols, "Country 1470" slogan. (WH-CO)
 1578.6 ---- CO AURORA - 12/31 1030 Talking House at 3889 S. Biscay St., messing up 1580. (WH-CO)

HELP WITH AN UNID

1550 KRPN UT WEST VALLEY CITY - As per listing Vol. 55 Issue 12, Jim Renfrew's 1550 unID is KRPN. KRGO is a sister FM station. "WKRP" is used as an "ear catcher." I've sent tapes to Jerry Starr with this "ID"--"This is W KRPN" Salt Lake City-West Valley, Utah." You have to listen very close to catch this. (DB-UT)

REPORTERS

DB-UT/Don Baumgartner, Salt Lake City, UT
 NH-WA/Nancy Hardy, Aberdeen, WA/FRG-7, Radio West loop
 WH-CO/Wayne Heinen, Aurora, CO/R-390A, RBB-4, Radio West mod 12-655 TRF, 4' NRC loop, Radio West loop, 250' LW, 100' LW



KFLT/P O Box 3025/Tucson, AZ 85702

Times are GMT For ELT subtract 5 hours. Deadline: Monday



A new high in dedication to DX'ing.... Bill Andres not only DX'es with his fiancée around but also tells her to shut up at ID time.....Or so he says.

- 590 CANADA VOOM St. John's 12/29 0535 caught end of nx, Nicaraguan soldier killed playing with a grenade. Singing ID at 0540, Paul McCartney song followed. Fair-poor w/adjacent channel QRM. (Havrliko)
- 765 SENEGAL Dakar 12/12 2245 lively traditional African music with vocals. 2259 male vernacular anncr. 2300 chimes in background, likely from Switzerland. Music continues. Xlnt, allowing wideband setting, using phaser as booster. Some static crashes, rather odd with all the snow outside. 2301 male FF overlapping music. Regae with synthesizer similar to organ sounds, marimba and drums. 0203 male vernacular with mentions of "Madame" -- sounds like a request programme // 4890, but much steadier and more listenable than shortwave signal. Earlier at 2230 this was the only listenable MW TA with Algeria 153 the only noticeable long wave TA. (Weeks)
- 783 EAST GERMANY 12/14 2200 female GG talk, 1.2 Hz SAH. 2200:40 a Beethoven overture which I recognized. Only occasional and fair reception so far this season. (Weeks)
- 1010 USA New York WINS 1/2 0537 ID by man at 0537, weather forecast, another ID at 0540. QRM from 400 kW Netherlands stn. Nx of 2 young boys killed in elevator fire. Wiped out when Netherlands switched from talk to music. (Havrliko)
- 1160 BERMUDA USV I guess- it never ID'ed- 1/3 and 1/4 0250-0535 looped to Bermuda, said "Bermuda" once, and the remainder of it was the most Americanized adult contemporary/oldies show possible. Call sounded like USV3, no city given. Ads for places on Suffolktown (?) Road. Woman anncr was Pat Tyler. (Andres)
- 1395 ALBANIA 12/30 2235 news in EE, including items on strikes in Bangladesh protesting government policy, American airplanes in the airspace of "the People's Republic of Korea.. 130 spy actions against that sovereign country", Mugabe elected president of the Republic of Zimbabwe. 2241 "This is Radio Tirana". Dances played by the orchestra of the Radio-television of Albania. Clear with occasional fades, best this season. (Weeks)
- 1467 MONACO 12/30 2228 unid lang, 2230 musical interlude, female anncr, chimes. 2231 "This is Trans World Radio, Monte Carlo... Our first program this evening is Back to the Bible". Choir sings hymn. Then, "We want you to keep your radio tuned for the next 30 minutes". Reading from Proverbs 6:17. Clear signal with occasional fades, best this season. 4 KHz setting fine but het has to be avoided by tuning to lower sideband at 1466 KHz. (Weeks)
- 1510 USA WSSH Boston 1/3 0533 OM anncr w/ID at 0533. Many ID's throughout, EZL mx, time check at 0533. Ad followed, then wx report for Boston. "We're into another 40 minute music scene, we're WISH (WSSH), Boston". Into Seals and Crofts tune at 0612. Slight QRM from BBC Radio Stoke on Trent, fair. (Havrliko)
- 1570 CANADA CKLM Montreal 1/3 0707 man and woman anncrs, was in FF. ID's heard at 0707, 0719 and 0734. FF mx plus music from the 50's and 60's, few mentions of Canda. Fair-good. (Havrliko)
- 1570 TURKS AND CAICOS ISLANDS Atlantic Beacon 12/25 0710 end of gospel pgm. OM anncr gave an Alabama address. ID by man at 0712. S/off around 0713, weak signal but clear. (Havrliko)
- 1610 ANGUILLA Caribbean Beacon 12/29 0557 end of religious pgm, OM anncr gave NY address for contributions. Man with ID at 0559. Instrumental EZL mx followed. S/off around 0601. Fair-poor w/adjacent channel QRM. (Havrliko)
- 1611 VATICAN 1/3 0320 female talk, sounding Italian. Good w/ brief fades every few seconds. Almost identical signal level to 1610 -- Caribbean Beacon. Het easily defeated with 2.2 KHz setting. First heard this season and was only a rare visitor last season. 0328 male anncr with "Jesu Christi". 032840 ID with orchestra, matching WRTM description, repeated 3 times, then anncr. 0321 "O Holy Night" with tenor and orchestra. 0333 female vocal with orchestra sounding like hymn followed by "Ave Maria". Strange getting this since TA reception was otherwise poor. (Weeks)

Bill Andres - somewhere around NYC HA600A, 4' loop
Vincent Havrilko - Suffolk, England R70, 100' LW, R. West loop
Peter Weeks - Frederickton, NB FRG7700, LW's, phasing unit

Biby Antenna On Hold For Now⁹

by Alex Zavistovich

Washington DC ... After months of delays in implementing its AM antispy-wave antenna project, the NAB is getting ready to defer work on one of the antennas, in favor of time-sharing of a single site.

That arrangement was proposed following preliminary word that the NAB had placed "on hiatus" the AM monopole design of Richard Biby.

The hiatus originally came as an apparent surprise to Biby, head of the Arlington, VA-based Communications Engineering Services, who maintained he had not been told about plans to suspend the project.

The action was the latest in a series of complications in implementing the Biby design. Difficulties in obtaining a Loudoun County VA test site held the project in stasis for 19 months.

There were problems internal to the project, as well. Biby had maintained that the project—which had a two-year zoning grant for a test site—seemed to be rushed into an "irrationally short timetable."

Despite these and similar disagreements, the NAB is apparently still committed to the Biby antenna.

NAB VP/Science and Technology Mike Rau assured that the NAB "had faith" in Biby's design and underscored the association's intent to accommodate the inventor in a schedule for the project.

Intense pressure

However, in November, after a series of problems and delays, the NAB appeared to be uncertain of the status of the project.

Biby said that in mid-November he was contacted by Rau, who told him the AM antenna project was coming under "intense pressure" because of "lack of progress." There was talk of cancelling the project entirely, Biby added.

In response to the conversation, Biby on 4 December sent a letter to Rau at the NAB. In it, he said the antenna project would require "at least five years" of development.

Biby urged the NAB to consider his antenna to be "a long term development." He suggested that the project might adversely affect the time he needed to spend with his own consulting practice.

Rau had told Biby that work on the Biby monopole design was "temporarily suspended" because of the "availability of the inventor." He added that the NAB felt the project would require greater coordination with Biby than the antenna designer's schedule would permit.

Rau said later that a formal response to the Biby letter was being drafted. The NAB had decided it could move the Biby antenna to the site of the second antenna in the project, after tests on that antenna were finished, Rau proposed.

Beltsville, MD

The NAB's second antenna—designed by Ogden Prestholdt, a consultant to Washington DC-based AD Ring and Associates—is to be built on a site in Beltsville, MD belonging to Howard University.

Although building Biby's antenna on the Prestholdt site would mean a still longer delay for the project, it would relieve some difficulties that have beset the NAB in its search for a site for the antenna.

In November 1986, the NAB was refused a waiver of zoning ordinances for the Biby antenna's test site in Loudoun County, a rural Virginia area some 40 miles west of Washington DC. The decision, made by the Loudoun County Planning Commission, was subsequently overturned by the county's board of supervisors.

But it was mid-November 1987 before any further progress was made in obtaining a test site. At that time, according to Rau, a lease was being drafted between the NAB and the property owners.

Biby said that he had spoken with Rau about time-sharing a test site with the other antenna over a year ago. At the time, he said, the idea was not pursued.

While the adoption of a new test site may solve some of the administrative problems in the project, it does not address the most recent communication problems which have cropped up between Biby and the NAB.

Timetable concerns

One disagreement centered on a timetable for research of the antenna.

"The antenna design is 'an idea,'" stressed Biby, and would require a number of years to develop.

"I don't think that even RCA in its day could have completed such a feat in two years, even with unlimited time and money," Biby said of the NAB's antenna project.

Biby maintained that completing the project within the period estimated by the NAB would be "more than a full time job" regardless of when the project was begun.

He commented that the experiment would take "at least five years."

According to Rau, part of the NAB's motive in setting any timetable at all was "in response to strong interest in the industry to have an antispywave antenna developed" expeditiously.

He also said that the time frame selected by the NAB was part of the negotiating process the NAB accepted "as a tradeoff for having the Loudoun County board of supervisors change an otherwise rigid provision in their zoning laws."

Biby, however, said he was not in attendance at any of the Loudoun County meetings.

Not the salvation

While the project's short deadline may have been a direct response to industry interest, Biby suggested that the NAB might have begun its tackling of the antenna project somewhat over-zealously.

He commented that the antispywave AM antenna project was "never intended to be the salvation of the AM band," and that reduction of power line noise and improved receiver signal processing technology should be pursued first.

However, he added that the antenna

could play an important role in the "re-emergence of the AM band." He said the antenna's role in that reemergence could be adversely affected if insufficient time was allowed for study of the design.

Rau said that the previously set schedule "doesn't have to be put on the project" now, especially in light of the timesharing arrangement.

"Any research we can have on the project will be helpful," he said. He stressed that the decision to defer the Biby project did not mean to imply a preference of one antenna over the other.

More receptive

Although the AM antenna project has been bogged down in administrative problems, most recent indications are that the NAB will make itself more receptive to Biby's concerns.

Although at press time the NAB had not formally responded to Biby's 4 December letter, Rau stressed that such a response was in the works, and that the particulars of the letter had already been discussed with Biby by phone, including the proposal for use of the Beltsville site.

Also, Rau noted, while the Prestholdt support.

"If Dick wants, we will provide him with funding, or obtain equipment for him, subject to our own budgetary and staff resources," Rau said. He added that the NAB has faith in the antenna and commented, "Whatever Dick wants is OK with the NAB."

Biby, for his part, was satisfied with the proposed relocation to the Beltsville site, a move which would make Loudoun County-based time constraints on the antenna project moot.

"At least they (NAB) have begun to understand my position," he said.

With the dispute over the Biby project apparently finished, work will soon begin on the Prestholdt design.

According to Rau, an agreement was recently reached between the NAB and Howard University, owners of the Beltsville site. There had been some problems in authorizing the site, because Howard University had been concerned that the experimental tower might interfere with astronomy classes conducted in an observatory adjacent to the test site.

The university gave its consent to the NAB project after the association agreed to move the tower to another part of the test site. Rau estimated the antenna would be built in the spring. ■

Trans World J STARR



⑩ More Daytimers Extend Hours

by David Hughes

Washington DC ... After an initial delay, the FCC has approved a plan that allows "qualifying" daytimers operating on regional channels and on 940 and 1550 kHz to add nighttime operations.

The ruling, which was announced 19 November and took effect 1 December, permits affected daytimers to operate at night with a maximum power of 500 W, "reduced as necessary to avoid interference to existing full-time stations."

While the plan, one of several recent FCC actions that provide night operations for daytimers, was issued in May, some daytimers at the September Radio '87 show were disappointed that they could not add night hours by early fall.

However, because of a requirement that the FCC get approval from both Canada and Mexico, the implementation was delayed until December.

Despite the delay, many daytimers are happy with it. "It was a good move by the FCC," said Jim Wychor, owner of a daytimer, KWOA in Worthington, MN, and past president of the Daytimer Broadcasters Association, which became the NAB Daytimers Committee.

"This will effect 1300 Class III daytimers who, for the first time, will be able to operate at night," Wychor said.

The regional channel ruling is the latest in a string of rule changes allowing increased night operations for daytimers. In October, the Commission adopted rules allowing daytimers on the 14 Class I-A foreign clear channels to operate at night.

In its latest ruling, the FCC stressed that the regional channel night powers—which affect stations on Class I and Class III channels—are contingent on the station's "applicable interference protection requirements."

Show cause orders specifying each station's night power levels were issued in November, according to the Commission.

The FCC said it "calculated the power the station can use based on protection to existing full-time stations, but not to the proposed nighttime operation of the other former daytime-only stations."

The former daytimers, the Commission added, will be reclassified as unlimited-time Class III stations and will be exempt from the principal city signal requirement. The FCC indicated that this exemption will not be granted to daytimers that apply to use nighttime powers greater than their initial authorization.

In addition, the FCC said it also reduced the "generally applicable" minimum power for unlimited-time Class III stations on regional channels from 500 W to 250 W.

The Commission had said the change would "permit these stations to obtain nighttime protection from subsequently authorized stations."

It also said that the former daytimers operating under the authority of their show cause orders will not have to meet city coverage requirements, or the requirement that full-time stations operate two-thirds of the hours between 6 PM and midnight each day of the week except Sunday.

"Almost all the reaction I've heard has been extremely positive," said Wychor,

who has been a long-time advocate of increased operations for daytimers. "Several stations started running night operations the first night they were able to."

Wychor indicated that he has heard "a few" complaints about low power levels, "but I advise them to try it before you complain." In most cases, he added, the night levels are similar to the second hour post-sunset authority level.

Dean Sorenson, head of the Sorenson Broadcast Group, said he will be able to add night operations to KCUE in Red Wing, MN. The 1 kW operation on 1250 kHz, will be adding a 110 W nighttime service.

Sorenson said the AM station, which is owned with an FM facility, will focus on "local" events such as sports, while the FMer will take a more "regional" stance.

"We're very excited about it," he added. "We're going to take our 110 W and do some local services and make some money."

Betty Baudier, president/GM of KASI, a 1 kW daytimer on 1430 kHz in Ames, Iowa, said her station began running 32 W at night on 1 December.

"It doesn't seem like much, but the signal gets about 10 miles—five miles really good," she said. "We're more than delighted. We've waited long enough."

Like Sorenson, Baudier's station will use its night operations to focus on "local" events—news, information and sports.

"We plan to add some local high school basketball games, as well as some university sports that haven't been carried before such as women's basketball," she added.

Lewis Latto, president of 1 kW daytimer KXTP, Superior, WI, said he is glad his station can now operate at night, but he would like to have 50 to 100 W instead of the 26 W his station was given. He also started night broadcasts 1 December.

KXTP's nighttime coverage, which includes "local Superior high school sports—which has never been done before," depends on the "atmosphere," Latto said.

"We plan to stay on the air until 10 PM or until the sports event ends, whichever is later," he added.

Even though the FCC has granted this latest extension of daytimers' hours, the battle is not over.

Wychor said that the FCC still has to address another issue of concern to many daytimers—allowing nighttime operations for daytimers on US Class I-A clear channels.

"The US clear channels are protected out to 700 miles," he said. "We'd like to see that reduced to 300 miles. Studies have shown that very few people depend on a clear channel (signal) for their primary radio service."

Radio World via J.S.K.

SUMMARY OF UNREPORTED STATIONS ⑪

Don Kaskey, 654 35th Ave., San Francisco CA 94121

Through Volume 55 # 11 dated December 14, 1987

COUNTRY	V55	V54	V53	V52	V51	V50	V49	V48	V47	V46	V45	V44	V43	V42	Prior	Total
CANADA	157	119	30	46	15	17	5	4	4	2	2	1	0	0	16	-- 418
U.S.A	1479	1776	583	235	229	177	80	71	43	33	22	12	13	7	99	--4859
TOTAL	1636	1895	613	281	244	194	85	75	47	35	24	13	13	7	115	--5277

New stations reported as having taken the air during the period covering Volume 55, Number 1 through Number 11:

590-WWLX-TN	800-KJMD-TX	1440-KKIP-AR
640-WJTZ-TN	1030-KDUN-OR (x-1470)	1500-KVSN-WA
670-WYLS-AL (x-1350)	1050-KNXX-NL	1540-KTGG-MI
720-CHTN-PEI (x-1190)	1080-WRYT-IL	1570-CISV-MB (x-1530)
750-WRIK-IL	1130-KHTH-CO	
750-WAUG-NC	1370-WGHC-GA (x-1570)	

**---Yes, that's right...KTGG...

NOTE: Since I've been compiling these statistics and Mike has been good enough to publish them regularly I have received numerous notes from you good DXers expressing interest, information & often reporting previously unheard stations to me. While I originally intended this information to come directly from DX NEWS I will keep with that principle...So the following info that I received is published in DX NEWS, right???

From Charlie Taylor of Grifton NC: WLSE-1400-Wallace NC is heard regularly from his location.

From G. Harley DeLeurere of Hendricks WV: WHZI-1170-Hanceville AL heard in 1986 as was WKEE-1340-Welch WV...WRGM-1440-Ontario OH heard in 1987.

From Christian DeHaes of Chicoutimi QU: CKWK-1340-Corner Brook NF heard 1/17/87....CBGA7-1340-Ste-Anne-des-Monts QU heard 2/2/87....

Thanks much gentlemen...Best of DX to all of you in 88 (& 89, 90 etc.)

Previously unreported stations noted by NRC reporters in DX NEWS since the last update (V55 #10)....Covers V55 #1 through #11:

AL---	3	WYLS--670 (Hughes-KY); WHZI-1170-(De Leurere-WV); WBYE-1370 (Cook-AL)
AZ---	2	KCIW-1250 (Wilkins-CO)
AR---	3	KKIP-1440 (Herman-OK)
CO---	6	KHTH-1130 (Wilkins-CO)
GA---	5	WGMM-1100 (Reitz-KY)
IL---	2	WRIK--750 (Ford-IN & Black-IL)
IA---	8	KASO-1240 (Wawro-v-LA)
MI---	1	WXLA-1180 (Ford-IN); KTGG-1540 (De Leurere-WV)...
MT---	2	KBSR-1230 (Wolfish-MB)
NM---	3	KRSN-1490 & KOAW-1490 (both by Wilkins-vac-NM)
NC---	0	WAUG--750 (Geary-PA); WISE-1400 (C. Taylor-NC)
OH---	0	WXIC--660 (Ford-IN & Truax & Hughes-KY); WRGM-1440 (De Leurere-WV & (Malicky-vac-OH)...
OR---	1	KDUN-1030 (B.Hardy-WA); KCKX-1460 (Woods-OR)
TN---	5	WJTZ--640 (Mitkus-NC)
TX---	20	KJMD--900 (Ponder-TA); KPST--860 (T. Hall-CA)
WA---	0	KVSN-1500 (B.Hardy-WA)
WV---	0	WKEE-1340 (De Leurere-WV)
WI---	0	WHRY-1450 (Wolfish-MB)
AB---	0	CILW/CHLW-1-1340 (Wolfish-MB)
NF---	2	CKWK-1340 (DeHaes-QU)
PEI---	0	CHTN--720 (Morss-MA)
QU---	3	CBGA7-1340 (DeHaes-QU)
SK---	0	CFYM-1210 (Wolfish-MB)

OFF THE AIR STATIONS: 1040-WYPX-PA, 1080-~~WYLS~~-PA, 1250-WRQK-TN, 1290-WYXS-IL, 1340-KALY-TX, 1440-WRPZ-KY, 1450-KDRW-CO, 1450-KACY-JD, 1510-WWWA-SC, 1520-WDBS-GA, 1560-KLNG-IA, 1580-KWYD-CO & 1580-WSRR-NJ...

BACK ON THE AIR: 790-KUTA-UT, 1080-WECA-GA, 1220-KLCO-MO, 1260-KTRF-ID, 1380-WSFL-NC, 1430-WOIR-FL, 1430-WRMG-TN, 1440-KRDZ-CO, 1440-WBEM-MI, 1540-KRYN-AR.

Radio Exec Slain in Studio

WTEL-AM Manager Believed Holdup Victim

By TOM SCHMIDT
Daily News Staff Writer

Thomas Wayne Holtecamp, general manager of radio station WTEL-AM, was killed yesterday during an apparent robbery in the station's studio on Cheltenham Avenue in Melrose Park, Montgomery County, police said.

Holtecamp, 51, who lived in the Beaver Hill Apartments in Parktown, was found face up in a pool of blood when Cheltenham police responded to the station about 4:30 p.m.

Police Sgt. Richard Hoffner said about the head. However, the official cause of death was under investigation by the Montgomery County coroner.

Hoffner said Holtecamp apparently struggled with his assailant. The fight, he said, took place in the station's control room outside the station. He said investigators didn't know what else might have been taken.

Police said a WTEL employee found Holtecamp's body about 4 p.m. in a second-floor office of the station, 1349 Cheltenham Ave. The station, which specializes in foreign-language programming, was on the air at the time.

Investigators reported the station's programming, reported the station's radio room, and officers' evidence at the scene indicated that a criminal homicide had been committed and that a struggle had taken place inside the office.

Hoffner said.

He said the body was given a preliminary examination at the scene by Montgomery County Deputy Coroner Ken Blunne and was then taken to Abington Memorial Hospital for an autopsy.

A joint investigation was being carried out by Cheltenham and Montgomery County detectives.

In addition to Spanish, it airs programs in Italian, Polish, German, Ukrainian, Slovak, Greek and Lithuanian. It first went on the air in 1925.

Hoffner said, no suspects have been arrested.

Holtecamp became a general manager shortly after WTEL was purchased by the Beeley Broadcast Group of Greensboro, N.C. in 1986. Beeley also owns country music station WXTU-FM in Philadelphia.

Beeley purchased the station for \$2.4 million from a partnership of Quentin C. Sturm, the previous general manager, and George D. Hopkins, president and treasurer. Sturm and Hopkins, who were in radio in Chicago, bought the station in 1989.

The station has emphasized ethnic programming for more than 60 years, and recently started concentrating on Spanish-language programs. The station has a relatively strong signal that covers the Philadelphia market.

GRAVEYARD DX ACHIEVEMENTS

William R. Hale

Distance Records for 1230, 1240, 1340, 1400, 1450, and 1490 KHz Frequencies

Date of Last Update: Jan 8, 1988

DXer and Locations(s)	1230	1240	1340	1400	1450	1490	TOTAL
GENE ALLEN Vallejo, CA	78	98	116	117	130	102	639
STAN MORSS Boxford, MA	84	114	101	102	108	98	607
DON KASKEY Galva, IA	85	77	104	105	121	93	585
BOB KNOX Newton, NJ	50	80	64	73	86	50	403
HANK HOLBROOK Chevy Chase, MD	28	84	79	53	68	53	345
FRANK WHEELER Erie, PA	58	81	83	82	118	32	361
ROY H. MILLAR Marysville, WA	58	53	61	67	67	47	353
ROBERT KRAMER Chicago, IL	32	19	50	54	61	29	243
ERNE WESOLOWSKI Omaha, NE	40	48	44	45	51	15	243
RALPH SPERRY Fairfield, CT	29	48	44	21	37	39	218
STEVE FRANCIS Alcoa, TN	28	37	21	33	47	46	212
RUSS EDMUNDS Kinnelon, NJ	22	34	33	38	36	48	211
JEFF FALCONER Clinton, ON	26	35	34	37	37	27	196
ALAN IMPRESCIA New York, NY	29	30	27	32	28	34	180
ANDY RUGG Montreal, PQ	29	29	31	23	25	32	169
DAN PHILLIPS Jacksonville, AL	25	19	37	25	24	36	166
JOHN KROMKA Montville, NJ	26	33	28	22	26	32	165
TIM KERFOOT Weston, CT	19	24	32	25	22	35	157
DON VOORHIES Oswego, NY	28	19	25	24	22	27	145
RON MUSCO Hartford, CT	21	25	21	25	27	24	143
JOHN WILKINS West Des Moines, IA	23	25	26	22	16	21	133
RICH EDDIE St. Louis, MO	15	20	22	30	23	22	132
CHRIS LUCAS Various Locations	20	13	13	26	27	32	131
DAVE FOX Reading, PA	15	24	16	23	24	27	129
DON KASKEY Sacramento, CA	15	17	22	25	28	17	125
DARY ATKINS Louisville, KY	21	21	20	22	19	23	123
GEOFFREY PARRISH Memphis, TN	17	18	20	22	23	20	123
FRANK MERRILL Various Locations	16	18	17	20	26	26	123
NEIL DICKERSON Sharptown, MD	21	19	32	16	19	15	122
DAVE SCHMIDT New Castle, DE	17	24	21	16	12	23	113
BILL HARDY Aberdeen, WA	18	22	17	18	18	18	111
RICK CARR Bloomington, IL & Austin, TX	12	18	24	16	20	19	109
NIEL WOLFISH Winnipeg, MB	16	6	17	26	24	19	108
TOM SUNDBROM Willingboro, NJ	13	26	17	23	20	8	107
SHARON SKOWERA Enfield, CT	12	19	25	21	15	15	107
HARRY HAYS Gouldsboro, PA	15	21	17	13	21	19	108
JOHN MALICKY Pittsburgh, PA	7	15	18	14	24	27	103
NIEL WOLFISH Toronto, ON	10	18	17	8	20	30	103
JOHN WILKINS Wheat Ridge, CO	12	12	13	22	14	16	89
NANCY HARDY Aberdeen, WA	16	20	13	11	13	14	87
RODNEY WALDRON Petit Rocher, NB	16	21	17	9	17	17	87
JIM HILLIKER Anaheim, CA	11	12	17	13	16	12	79
JOE KURETH Uniontown, MD	11	27	38	*	*	*	77
JIM RENFREW Rochester, NY	16	10	10	12	12	13	73
STEVE GOOZOVAZ Binghamton, NY	14	14	7	11	14	9	61
WAYNE HEINEN Colorado Springs, CO	8	6	19	17	3	8	61
JERRY ROBERTSON Crosswell, MI	16	8	6	7	10	13	60
BRETT HANAVAN Chula Vista, CA	13	3	10	11	14	6	57
TIM HALL Chula Vista, CA	6	7	9	11	14	9	56
GREG CONIGLIO Clarence, NY	3	12	7	8	15	11	56
DAVE YOCIS Fairfield, CT & East Lansing, MI	11	9	9	12	4	9	54
STEPHEN MCINTIRE Des Moines, IA	10	15	9	2	4	9	49
LES CARPENTER El Toro, CA	8	6	8	8	10	6	46
DEBRA HIDDEN Orlando, FL	6	6	7	6	5	11	44
WAYNE HEINEN Buffalo, NY	13	10	8	8	6	5	44
PAUL MOUNT Teaneck, NY	6	7	8	8	8	10	42
KEN ONYSHUCK Hazel Crest, IL	6	7	8	8	10	8	42
MIKE HARDESTER NAS Grammar, CA	6	6	6	7	11	11	38
STEPHEN PONDER Bossier City, LA	6	6	6	6	6	6	36
GEORGE SANTULLI Cranford, NJ	*	*	33	*	*	*	33
ERIC MCINTOSH Invercargill, NZ	0	3	1	15	7	7	33
BILL LACKEY Kingsville, TX	6	6	4	3	5	4	31
MORRIS SORENSEN Leaf Rapids & God's Narrows, MB	5	6	5	7	4	4	31
ERIC BUENEMAN Hazlewood, MO	8	7	4	5	3	4	31
RICHARD E. WOOD Hilo, HI	5	5	8	4	4	2	28
JEFF KOSNETT Charleston, WV	4	5	3	4	6	1	26
GENE NIX Billings, MT	3	5	5	5	4	3	25
BILL HALE Various Locations	4	5	4	3	4	5	25
JEFF KOSNETT Chicago, IL	5	3	6	3	4	3	24
TODD WILLIAMS Hood River, OR	*	*	*	24	*	*	24
PAUL MOUNT Nelsonville, OH	4	4	3	3	3	5	21
DON DAVIS Warner Robins, GA	5	5	5	5	5	5	20
PAUL SWEARINGEN Moran, KS	16	3	3	3	3	3	18
RON RYCHALSKY Bridgeport, CT	3	2	2	2	2	2	15
LES CARPENTER Sandy, UT	2	1	0	2	2	2	11
SHARON WATERMAN Southwick, MA	*	*	*	*	5	5	13
RICHARD TURNER N. Yarmouth, MA	2	3	1	1	2	3	12
WAYNE HEINEN Aurora, CO	1	2	0	1	4	3	11
OLLE ALM Stockholm, Harnosand, Karesuando & Goteborg, SWEDEN	0	2	2	3	1	2	10
RICHARD WATERMAN Southwick, MA	*	*	*	*	8	*	8

MORE....

DOMESTIC DX ACHIEVEMENTS

Don Erickson, 6059 Essex Street, Riverside, CA 92504-1599

Distance Records for U.S. and Canadian Stations Only

YR Name, Location	*TDH*	SH	PH	TDT	ST	PT	TDV	SV	PV
56 Roger Winsor, Champaign, IL	2933	50	x 10				1193	50	x 8
66 Gary Siegel, Toledo, OH	2536	49	x 10	60	22	6	6	4	1
30 Frank Wheeler, nw PA	2486	50	x 9	231	34	x 3	1698	50	x 9
70 Stephen Francis, ne TN	2247	46	x 7				43	42	x 0
54 Jerry Starr, Youngstown, OH	2159	50	x 10N	1055	50	x 10N	1610	50	x 10N
22 Harold Whittier, vic Boston	2003E	42					330E		
52 Roy Millar, vic Seattle, WA	2000E	50	x 10				1647	50	x 10
Dave Whatmough, Hamilton, Ont.	1724	49	x 10				967	49	x 10
70 John Malicky, Pittsburgh, PA	1461	40	x 7	1184	40	x 6	902	38	x 7
60 Andy Rugg, Mont. & sc Ont	1427	47	x 10	133	27	x 7	1405	47	x 10
60 Andy Rugg, Montreal, PQ	1259	47	x 10	133	27	x 7	1241	47	x 10
63 Ray Arruda, nr Boston, MA	1245	47	x 9				937	47	x 9
62 Ron Musco, vic Hartford, CT	1241	46	x 9Y	105	28	3	1117	46	x 9
62 Marc DeLorenzo, eastern MA	1117	45	x 9						
78 Niel Wolfish, vic Toronto	1080	43	x 10	402	39	6	550	42	x 10
74 Sharon Skowera, Enfield, CT	970	40	x 8	370	38	x 6	247	40	x 8
68 Thomas White, nr Washington, DC	884	39	x 7				221	38	x 7
31 Geo. Holland Jr, vic Albany, NY	828	49	x 9				828	49	x 9
81 John Herman, Vinita, OK	763	37	x 5				234	35	4
85 Niel Wolfish, Winnipeg, Manitoba	722	40	6	113	10	4	220	35	6
82 Bob Smolarek, nc NJ	702	36	5	56	14	5	5	5	0
82 Bob Harrison, northeastern NJ	701	35	x 7				366	34	x 7
75 Stephen Ponder, Bossier City, LA	682	38	x 5	10E	4	4	669	38	x 5
76 Steve Goozovaz, Binghamton, NY	535	36	x 7						
74 Jim Hilliker, Anaheim, CA	525	35	5	300E	35	5	181	31	5
61 Donald Erickson, Riverside, CA	521	39	6				258	32	5
84 Phil Tallman, Ardmore, OK	509	40	x 5				397	37	x 4
73 Paul Mount, northeast NJ	489	36	x 7	199	26	x 5	224	33	x 6
78 Paul Mount, southeast OH	390	36	x 3	60	25	1	3	3	0
81 Eric Bueneman, Hazelwood, MO	350	37Ex	5				227	34	x 5
74 Patrick O'Connor, Hinsdale, NH	234	28	x 5	2	1	0	164	28	x 5
76 Dave Holten, eastern WA	221	22	4	12	5	0	26	18	3
71 Rick Krzemien, vic Chicago, IL	197	47	x 9				131	45	x 8
67 Richard Turner, se MA	187	29	x 6						
70 Marshall Lillie, Erie, PA	170	26	x 2				135	22	x 1
33 William J. Prater, KY							3446	50	x 9
46 Hank Holbrook, metro Wash DC							2109	50	x 10

YR=Year Started BCB DXing TDH=Total Domestic Heard (US and Canada only) SH/PH=States/Provinces Heard (do not include YT or NMT; max=10)
 TDT=Total Domestic Taped ST/PT=States/Provinces Taped TDV=Total Domestic Verified SV/PV=States/Provinces Verified x=Washington, DC
 E=estimated I=incomplete R=recalculated

If a little bit of interest is shown, I'll try to re-work the format of the printout of this column now that I've had several years of experience with Perfect Filer and Wordstar 3.3/4.0 on the Kaypro II. Some things are much simpler to do than they seem while others are quite a bit more difficult. But it would be particularly helpful if you would send a card or letter with your suggestions on making the format of greater use or interest. In doing some experimenting with Wordstar 4.0, I've found a very fast and simple way to produce an alphabetically sorted list of loggings by call letters indexed to the frequency with the entry done in frequency order as fast as a person can type. This is usually much faster than using a database program. If anyone would like a cross-index to his or her loggings and they total between 300 and 1000, drop me a postcard. First 2 to 3 requests will be handled. Data needed in frequency order, legible and no originals which could get lost in the mail. All material will be returned along with computer printouts. This offer is reserved for those of you who do not already have computer facilities, an increasingly small percentage of the membership. DDIA updates appreciated. Next column when interest warrants. 73--Don

....GYDXA Continued

You'll notice a new feature in **Hank Holbrook's** listings. He was kind enough to send his updates divided into pre-and post-1980 categories. Hope to hear from more DXers who have such logs. Welcome to newcomer **Roy H. Millar** of suburban Seattle who checks in with 353 GY catches, all verified! Now to check out all the veries to see if they made the frequency scoreboard! Whew! I'm thinking of weeding out all the records held by any non-members (those who no longer belong to NRC), both from this and the frequency lists. What say you, the contributor?? Let me know, and I'll get the word out. If it's decided to clear out all the dead wood, I'll print what stations are up for grabs. Other updates have been received from **Don Voorhies**, **Greg Coniglio**, **Eric Bueneman**, **Niel Wolfish**, **Frank Merrill** and **Olle Alm** who included a photo of his DX site in Sweden. Super picture Olle!

73, *Bill*

High-latitude paths that pass below a tangent point to the auroral oval (Path A in Figure 4) will suffer little or no auroral absorption, while paths that graze the auroral oval (Path B in Figure 4) will suffer high auroral absorption. Some paths may cross at near right-angles to the auroral zone (Path C on Figure 4, shown also on Figure 5), pass under the auroral "curtain" and suffer limited auroral absorption. These "doughnut hole" paths may be deflected from a great circle path and may experience chordal modes (where the ray passes above the Earth's surface and re-enters the ionosphere) due to the non-uniform electron density found in the polar regions.

These trans-polar paths are responsible for Northwest Europe reception of Northwest North America (and vice versa) and Northeast North America reception of Northeast Asia (and vice versa). Southwest, Mid-western and Eastern North America reception of Southern Europe is by near-grazing paths (Path A), as is Western North America reception of Eastern Asia. Super-position of a typical auroral zone on a world globe will help the DXer determine the likelihood of reception of different areas from his location.

The correlation of long-distance, high-latitude medium wave receptions is beyond the scope of this article. The conventional wisdom is that trans-oval receptions or near-grazing path receptions should be improved during periods of low sunspot number and low geomagnetic activity. Long periods of low geomagnetic activity reduce residual ionospheric absorption and increase the probability of receiving signals on high-latitude propagation on "grazing" paths or "doughnut-hole" paths. There are other complicating phenomena, such as the Winter Absorption Anomaly (also known as the Mid-winter anomaly) which causes reduced signal strengths during periods of low geomagnetic activity, mainly during the winter solstice months (December and January in the Northern hemisphere).

7. CONCLUSIONS

Based on the data presented in this article, the following conclusions can be drawn:

- a) Solar energy affects the Earth's geomagnetic field and causes variations in the strength of the field.
- b) The sunspot cycle is 22 years long, with two 11-year periods between sunspot number maxima.
- c) High geomagnetic field activity is associated with high sunspot number and solar flare activity. However, high activity can occur in years with low sunspot numbers.
- d) The number of geomagnetically quiet days in a year is highest in the 1-2 years after the sunspot minimum.
- e) The number of geomagnetically active days ($A_p > 15$) in a year is highest in the 2-3 years after sunspot maximum.
- f) In sunspot minimum years, periods of 20-30 days or more without high geomagnetic activity are common. However, some periods of high geomagnetic activity do occur.
- g) In years during and after the sunspot maximum, periods of 15-20 days with high geomagnetic activity are common. However, some periods of low geomagnetic activity do occur and high-latitude Medium Wave DX is possible.
- h) A 27 day recurrence of active geomagnetic field conditions is related to the solar rotation, and is typical, but not absolute. A 152 day recurrence of specific solar flares is observed occasionally in the geomagnetic index data.
- i) The average A_p index value is 15 for the years 1956-1986. The lowest yearly average A_p value was 8 in 1965, and the highest yearly average A_p value was 24 in 1960, with 23 in 1982.
- j) The months with the highest average A_p index are April and September.

TABLE 4. Planetary A Index for 1986-87 in 27 Day Cycles.

		1986										1986
Start	End	1/1	1/28	2/24	3/23	4/19	5/16	6/12	7/9	8/5	9/1	9/28
		1/27	2/23	3/22	4/18	5/15	6/11	7/8	8/4	8/31	9/27	10/24
1		25	30	19	11	11	7	6	6	9	9	13
		18	19	18	21	5	8	6	6	6	16	13
		10	14	26	27	7	5	6	4	4	7	5
		5	8	20	12	11	8	5	6	7	7	7
6		4	5	25	18	10	5	5	7	10	9	23
		20	6	18	14	12	6	8	4	6	8	9
		32	6	12	8	7	3	9	4	7	5	7
		11	5	12	5	7	8	5	5	10	5	19
11		14	7	8	7	4	7	6	8	10	6	12
		11	11	8	8	11	10	6	6	5	6	5
		4	82	32	5	9	8	8	4	6	16	6
		5	202	33	14	5	7	5	3	4	89	6
16		3	100	23	4	5	3	7	6	5	22	3
		4	10	5	9	43	4	3	7	3	12	4
		5	20	2	4	40	10	5	5	4	18	2
		3	18	2	5	17	17	28	15	15	7	28
21		6	15	7	5	17	15	18	17	29	14	31
		7	19	21	13	67	8	11	20	29	20	14
		4	5	8	19	12	10	9	16	25	21	6
		15	5	8	6	7	7	7	9	22	18	6
27		27	9	6	10	5	5	13	17	17	11	13
		11	14	6	5	6	6	8	11	12	4	21
		17	9	8	4	6	12	7	12	13	43	14
		12	17	9	7	7	7	7	6	12	22	11
Avg		26	26	3	8	4	7	5	5	22	26	6
		12	30	17	6	3	13	4	19	27	27	5
	37	35	22	7	4	6	6	20	16	20	2	
Avg		12.9	26.9	14.0	9.7	12.7	7.9	7.9	9.2	12.4	17.3	10.8

		1986					1987					
Start	End	10/25	11/21	12/18	1/15	2/11	3/10	4/6	5/3	5/30	6/26	7/23
		11/20	12/17	1/14	2/10	3/9	4/5	5/2	5/29	6/25	7/22	8/18
1		4	3	6	5	7	11	7	6	9	9	6
		3	2	6	12	18	8	13	5	11	5	12
		16	12	7	10	4	14	11	4	8	4	17
		9	46	11	8	5	8	8	5	8	5	4
6		15	49	14	7	6	8	10	8	4	3	5
		14	17	22	18	12	10	7	4	6	2	26
		6	9	10	10	9	12	5	4	7	3	52
		13	5	11	10	7	10	12	10	25	9	9
11		6	10	14	11	5	12	6	6	9	8	14
		16	14	9	7	29	11	6	2	4	6	
		67	13	3	7	19	4	4	6	3	5	
		20	8	3	7	18	18	5	9	4	4	
16		12	6	4	7	14	15	4	4	7	10	
		6	7	7	11	12	6	8	4	13	9	
		4	4	18	10	7	5	12	4	6	11	
		3	4	10	4	6	6	3	2	6	7	
21		5	6	6	8	12	13	4	2	4	7	
		14	4	3	7	13	26	4	4	8	4	
		9	6	3	4	9	12	9	3	6	5	
		5	12	3	4	3	5	4	77	6	24	
27		5	8	5	4	6	4	4	8	17	20	
		12	4	7	4	10	4	9	20	8	14	
		11	12	10	7	21	10	2	25	8	10	
		8	20	6	9	10	4	4	9	6	8	
	6	4	5	14	21	2	4	14	4	9		
	4	12	10	11	12	16	7	10	3	6		
	5	5	6	8	9	12	6	21	7	8		
Avg		11.0	11.2	8.1	8.3	11.3	9.9	6.6	10.2	7.7	8.0	

TABLE 3. Planetary A Index for 1987.

Months Days	Jan 31	Feb 28	Mar 31	Apr 30	May 31	Jun 30	Jul 31
1	18	7	9	10	7	8	2
	10	4	3	4	6	8	3
	6	4	6	2	6	4	9
	3	4	10	16	5	6	8
5	3	4	21	12	4	7	6
	3	7	10	7	5	25	5
	5	9	21	13	8	9	4
	7	14	12	11	4	4	10
	10	11	9	8	4	3	9
10	6	8	11	10	10	4	11
	5	7	8	7	6	7	7
	10	18	14	5	2	13	7
	6	4	8	12	6	6	4
	5	5	8	6	9	6	5
15	5	6	10	6	4	4	24
	12	12	12	4	4	8	20
	10	9	10	5	4	6	14
	8	7	12	4	2	6	10
	7	5	11	8	2	17	8
20	18	29	4	12	4	8	9
	10	19	18	3	3	6	6
	10	18	15	4	7	4	8
	11	14	6	4	8	3	6
	7	12	5	9	20	7	12
25	7	7	6	4	25	7	17
	7	6	13	4	9	9	4
	7	12	26	9	14	5	5
	11	13	12	2	10	4	26
	10		5	4	21	5	52
30	4	4	4	4	9	3	9
	8	4		11			14
	249	275	323	209	239	212	334
Mean	8.0	9.8	10.4	7.0	7.7	7.1	10.8
Median	7	8	10	6	6	6	8
A<8	17	14	9	18	19	21	13
7<A<16	12	10	18	11	9	7	13
A>15	2	4	4	1	3	2	5
Cons A<8	6	6	3	5	9	5	6
Cons A<16	18	22	13	49	*49	12	25
Cons A>15	1	3	1	1	2	1	2

A recent report by Bai and Sturrock, (1986) indicates that there is an apparent 152 day periodicity of solar flares, based on data from the last two sunspot cycles. Review of the Ap index of the last five years shows some periodicity, but it is not consistent or uniform, perhaps because not all solar flares result in an active geomagnetic field.

6. MEDIUM WAVE DX EFFECTS

Long distance, high latitude medium wave DX depends on several factors. The most significant factors are the geomagnetic field activity and the position and characteristics of the auroral ovals. High levels of geomagnetic activity results in more intense auroral oval electron precipitation and higher radio wave absorption on paths passing through or grazing the auroral oval.

8. THE FORECAST

Just like forecasting the weather, forecasting the Sun, the Earth's magnetic field and ionosphere is risky business. Based on the data and conclusions presented above, the following forecasts are made (with high hope!):

- The period between Fall 1987 and Spring 1989 will be good to excellent for high-latitude medium wave DXing due to the low sunspot numbers. There should be some periods of 20-30 consecutive days with quiet or disturbed geomagnetic field which should be the best for high-latitude DXing. DXers should monitor the A and K index data on WWV for up-to-the-minute geomagnetic activity. The best time of the year are the months of September through mid-November and mid-January through mid-April.
- The sunspot maximum should occur in 1991-1992 with a maximum sunspot number of 100-150, followed by a slow decline in sunspot number to the next minimum in 1997-1998. Even so, there will be periods of quiet and disturbed geomagnetic activity when high-latitude DXing is possible. There may even be a year like 1980 which had a high number of days with quiet activity with a relatively high sunspot number.

Too often DXers judge the quality of a DX year by first impressions - how "good" was September for high latitude DX. There have been some poor Septembers in low sunspot years (1977 and 1986, for example) that were followed by good Octobers and Novembers. Don't give up too early in the DX year!

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- END -

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Paul Swearingen

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Times are local per Muse.

No one wants to admit being 21 and under? Oh, well, let's hope that you feel 21 again ... some times. Your next theme Musing deadline is Jan. 23, for ladies and married couples who belong to the NRC and DX. And without further ado, let's get on with the Musings of the Members!

Ernest Cooper - 5 Anthony St. - Provincetown, MA 02657 (617) 487-9337

Wow, I see Tony Fitzherbert got a verie out of WGAM - how did you do it, Tony? In issue #10, my zip number was incorrect - the above IS correct. To Albert Lobel, I agree that much of the rest of the world is not enthralled over the U. S. A., but you don't have to tune to the SW bands to find that out - just try to elicit veries out of most foreign countries today! I used to specialize in writing to LA's and I got some great verifications, with pennants included with some - but then my returns started falling off and got down to almost zero, so I've reluctantly given up writing to any of the SS-speaking countries in Latin America. Let's hope tht after the next election things might change, but it's usually difficult to win back a friend you have lost! In Issue #11, in the formats column, there's a listing for 1520 WDBS, Eatontown, CA. That should be Eatonton, CA.

Some more DX: Fri. 12-18: On 1060, a strong signal playing c&w music and giving sports scores right up to 3 am when they went right into USA News Network with no ID given. Back on Wed. 12-16 this same station was playing Urban style music, and also went into the USA network at 3 also with no ID given. Since then I've heard them with ROK at this early hour. They can't seem to make up their minds what they want to play. I believe this is semi-local WBIV, ex-WTTP in Natick, heard Sunday afternoon at 4 in SS. Sun. 12-20: A French language station giving WWA fits on 1170, likely Haiti, and sees to be the one that's slightly off frequency, setting up a growl-like bet on WWA. Mon. 12-21: The early-morning 1060 was in SS today - maybe they have a different formula for each day of the week! Mondays are virtually like any other day now with most AN's going NSP - greed and pride rule the airwaves, as in so many other places. Tue. 12-22: Big local WRKO-680 was completely off this morning, allowing reception of two seldom-heards these days (of course) - CIYQ-NF, giving a whole string of calls, all ending in --YQ at 2:06 am, and WPTF, Raleigh, NC, verified back in 1933! But 95% of the time the frequency was just a low growl. Let's hope the New Year brings us something besides new taxes - like some good DX. Forward - March!

Radio Roundup

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

Greetings and a Happy New Year to all ... WMAQ in Chicago is changing its format to all news ... CFRB newsman Bob Hesketh has retired after 28 years ... WPGA, Ann Arbor, has been purchased by Domino's Pizza and Detroit Tigers owner Tom Monaghan. WPGA will be changing its call letters to WPZA, of course ... KIDS AMERICA, distributed live through American Public Radio to 26 markets, is going off the air, effective the first of the year. A well-received series, its funding was cut by the Corporation for Public Broadcasting. This creative show may be reborn with a shorter or modified format ... The late radio superstar William B. Williams (WNEW) must be smiling, as his son Jeffery Williams will commence his radio career on WRIN-FM ... Betty Sander had joined her husband Bob at WISN in Milwaukee ... WVEE in Collierville has changed its calls to WPLX and with the exception of morning drive time will program satellite-fed country music ... Former skiing champion Suzy Chaffee will be doing the anchoring chores for United Stations Radio Networks coverage of the 1988 Winter Olympics from Calgary ... WHLD-AM, Niagara Falls, is now operating 24 hours a day ... WOKO in Albany, off the air for the last nine months, is returning to the air as WWCN. Its new format will have a live announcer for the am drive time and then go to a satellite feed for the rest of the programming day ... Also in upper New York, Schenectady's WWD is changing its calls to WKZ-AM. Its FM sister currently uses WKZ-FM ... Atlanta talkshow host Ed Tyll has been canned at WGST. Among his faults listed for his release included engaging people in telephone conversations without informing the called parties that they were on the air ... So much for now.

Andy Rugg, VE2AQP - 669 de Gaspé, Apt. 218 - Nuns Island, PQ H3E 1J1

New veries are WYSL-1030 and WXPX-1300. DX was so-so in December, but I did hit my target of 1700 logs. On 12-6 around 4:40 pm WKOW-1120 was an easy catch on the Superadio. Then on 12-24 I finally snagged WARD-1550 at 4:24 pm on the same set. My third new one was a call-change which gave me no. 1700. It came just after 6 am on 12-28 when WKIT-1200 made it thru CFCO for about 10 min. I had earlier veried them as WGUY on both 1200 and 1250. WKIT was my first new catch on the R-390A since 1-17. It only took me three years to go from 1600 to 1700 logs, compared to 10 years from 1500 to 1600. December TA reception was unremarkable; the only notable event was 30 seconds' audio on the car radio on 12-13 from Algeria-891. Semi-local CTSO-1320 finally went silent and moved to FM by mid-December. CFCF-600 is up for sale. 73 for now, and Happy 1988!

Chris Cuomo - 670 3rd Ave. - Verona, PA 15147-1349

Greetings, and good DX from the Steel City. I have been DX'ing now for five years and a member of the NRC since October. I found out about the club through an old copy of the WRVH (1984). The NRC was the club for me, and I joined. I have recently acquired a GE Superadio II as a Christmas gift. Some new catches on it include KWOC, XEROK, and an interesting pirate operation around 1610. It went something like this: A five-second repeating tape loop. I heard two men's voices. The first said something ending with "... like a great big Oh - X" (letter O, letter X); the second voice said, "HMMMMM." I believe that is probably the same pirate that Vic Melis talked about in usings December 28. I am desperately looking for a list of TIS stations. Does anyone know where one can be obtained? (Not a current one, Chris; the problem is that the TIS's come and go quickly, and I'm not even sure if the FCC is keeping close tabs on them! And welcome to the NRC and Musings, Chris. We're glad you found us -pls)

Eric Buenanen - 836 Lamplight Lane - Hazelwood, MO 63042-3407

In reply to recent uses: Ernie Cooper, I also cannot agree to your statement that "AM Stereo" is a poor imitation of FM Stereo". AM Stereo sounds much better than FM Stereo because of its fuller, richer sound. I have not heard any sidebands on my C-QUAM receiver. Examples of excellent AM Stereo sound: KUSA-550, WSM-650, WGN-720, WSB-750, WJR-760, WBBM-780, WHAS-840, WLS-890, and KMOX-1120 (while testing). The reason that I made the statement that FM is "scratch and fake" is that FM stations only get out about 100 miles at most, while AM stations get out ten times further. FM stations sound a bit on the tinny side, but AM stations don't sound tinny at all! So, I hope this explains the whole thing. Alfred Lobel, I haven't been to Europe, but your analysis of the AM scene there painted the picture for me. Paul Swearingen, 15 kHz bandwidth for AM radio is just too wide. Think of splattering onto 630! I think 5 kHz is plenty, although I could go with 9 kHz bandwidth.

I see that there has only been one reply to my AM2/AM3/FM2 proposal. I believe they wrote the FCC, hi! To recalculate the numbers, there should be about 1,200 AM2 and 1,200 AM3 assignments added, as well as about 3,000 FM2 assignments, while eliminating about 2,500 AM and 2,900 FM assignments. 73 for now.

Paul Swearingen - Topeka, KS

Not much new DX here, although CJFT-530 has been strong enough to pop the stereo indicator on my Radio Shack TM-152. Eric, I can't agree with either you or Ernie on statements about the quality of FM sound vs. AM sound? Why? My ears are different than yours! Furthermore, your speakers or earphones will reproduce the sound somewhat differently than mine. Any evaluation of sound without scientific measuring instruments is subjective and useless; you might as well hold a debate as to whether modern country music or heavy metal was better/more obnoxious. Most adult males cannot hear much sound above 10 kHz anyway, and to them any frequency response above 10 kHz at low db never gets through their ears. Wider bandwidth does cause more splattering, but much of that splatter sound is high frequency. A 5 kHz bandwidth would be about half of what most stations today transmit, resulting in a very mushy sound. Also, keep in mind that many FM stations - even subjectively speaking - transmit a poorer quality sound than many AM stations. I'd put KBOI up against any FM station; even in mono they sounded better to me than any other AM station, and many FM's. Now, with this debate behind us, let's concentrate on the real problem: poor consumer-grade receivers, even high-dollar stereo component systems, which have forced broadcasters to cater to them instead of transmitting European-quality sound. It's no coincidence that Philips/Magnavox, Grundig, Nordmend, and other European receivers put out better sound than ... others. Perhaps if broadcasters did not have to fight this battle, we DX'ers could forget about co-channel splatter as a problem. 73.

SPORTS NETWORKS

Barry S. Finkel, 10314 S. Oakley Ave., Chicago, IL 60643

One short list this week, courtesy of Karl Forth.

Hartford Whalers (NHL)

610 WNSG-CT	1110 WUHN-MA	1350 WNLK-CT	1470 WMMW-CT	94.3 WYBC-CT
800 WLAD-CT	1270 WSPR-MA	1400 WILI-CT	1510 WNLG-CT	95.9 WUPE-MA
1080 WITC-CT	1320 WATR-CT	1420 WLIS-CT		

MUSINGS

Paul Swearingen

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A nice turnout of experienced DX'ers this time around, and four Musings are on deck for next week when broadcaster/DX'ers hold sway. How about the theme of "Brag Time" for the next deadline, Jan. 30? It's your turn to tell about the best, the most, or anything DX that you're proud of, for yourself or someone else. The following week, Feb. 6, will be for your nomination of "Favorites" ... DX or otherwise. For Feb. 13, let's hear from NRC'ers who have attended a DX convention but who've never contributed to **DX News**, or who've contributed to **DX News** but who've never attended a convention. You with me on that? "Memories" of DX or radio will be the theme to make the Feb. 20 deadline ... include a paragraph in your Muse, or make your entire Muse a trip back to the past. It's up to you! And Feb. 27 will be dedicated to former or present NRC officers and editors. No excuses about being too busy ... you've got plenty of time, now! While you're dreaming up ideas, let's get on with it!

B. B. McClurkan - 3520 W. Bangor Ct. - Irving, TX 75062

This is my first Muse. When Paul mentioned a 65-and-over date I felt obligated as I'll hit 71 on Jan. 13. I started DX'ing when I was 15. My first QSL was WCKY on Mar. 9, 1932. I DX'ed from '32 to '41 and then had to set the hobby aside for WWII, raising a family, completing college via ten year's night school, etc. Retired in '78 and the bug bit me again. Made the '84 convention sporting a gray beard; made the '84 convention accompanied by my wife and two grandsons but no beard. Perhaps some of you might remember me. The '84 convention was my first one and I recall with pleasure the patience of Wayne Heinen, Mike Knitter, Bruce Conti, Paul Swearingen, and others who explained various ways to improve reception on my rig, a Panasonic 4900 and RW Loop. Prior to meeting them my knowledge re electronics was almost nil.

Log stands at 1234, 32 countries, 46 states six provinces, 355 veries (haven't requested any since 1980. Recently had a unique experience. On consecutive afternoons parked at the same shopping mall listening to my Sony car radio, picked up KCSJ Pueblo, CO at 1758 one day and KIDN Pueblo at 1708 the next. Both new catches for me. Approximately 550 miles and still daylight. My getting the Pueblo stations on consecutive days reminded me of Wally Wawro's picking up the Sacramento Kings on two different California stations as recently reported in DX East. When one played out he found another.

Have logged 35 new ones so far this season including stations in 15 different states plus a couple of Cubans and one Mexican. Gues my best catches occurred in the '30's when the channels were not so crowded. Veries from Australia, Hawaii, Venezuela, and Puerto Rico. EJB-800 is a regular here from sundown on by nulling XEROK. Even picked up on Christmas day on an inexpensive built-in headset a grandson received as a gift.

Intend to Muse again before I add 71 more. 73's and good DX'ing to all of you. (Of course I remember you! But if you learned any electronics from me you're probably in big trouble, hi -pls)

Jim Boehm - 3206 Cripple Creek, Apt. 13-B - San Antonio, TX 78209

I hope the invitation was limited to long-time MW DX'ers with a couple of thousand loggings with many verified (Hardly not! -pls). This contains the thoughts of an old man, a medium wave DX'er, in the hobby long enough to have accumulated barely 300 entries in his log.

A sage once said: "Gray hair does not necessarily indicate wisdom, but it should indicate understanding". With this in mind, I believe the terms "DX" and "DX'ing" are more significant now than they were to me in 1926 when my parents bought our first AM radio. We were DX'ers and DX'ing then even, although the terms were unknown to us and I didn't understand.

The memory of my brother and me climbing two tall Australian Pines to install about a 150-foot "aerial" still lingers with me. The Atwater Kent receiver didn't come with a ferrite antenna. As I recall, it wasn't much of a receiver. Three separately tuned RF amplifiers ahead of a regenerative detector mounted on a board with provisions for two headsets. We had to tune separately three RF controls, calibrated in increments of 0 to 100 (talk about frequency readout!) plus a regeneration control in the detector circuit to the accompaniment of squeals, squawks, and hisses to intercept one of the relatively few available, distant stations. Even when WIOD, "Wonderful Isle of Dreams" on Miami Beach and WQAM in Miami became available we suffered through the same ritual in an effort hopefully to receive more interesting programs from more distant stations. We were DX'ers and DX'ing but I didn't understand.

Finally around 1928, Philco came out with a console model with only two knobs to twirl. One had a dial calibrated in frequency and the other controlled audio gain. It was a monstrous thing truly advertised as "no stoop nor squat to tune it". What's more, this marvelous piece of electronic gear had a "loudspeaker" to allow everyone to hear our favorite program, "Amos n' Andy". No more squabbles over use of headsets. The aerial, now called an "antenna", had to be installed and the same ritual of searching for stations with

acceptable programming continued, but this time sans squeals, squawks, and hissing. We had moved up in the world of radio and were DX'ers and DX'ing but I still didn't understand.

My move from my home in Florida to Alabama in the early thirties entailed, among other things, acquiring a radio. A depression was in progress. One, very-hard-to-come-by dollar downpayment, along with a payment of 50 cents a week, put me in possession of that mass-produced, cathedral-styled, three-tube table model radio so common to that era. Up went the antenna; not to receive entertaining and sought-after comedy and drama programs of the time because these were readily available from stations in Birmingham, Montgomery, and Atlanta. As in the case with young people, I was hunting my kind of music, i. e., Big Band music, the kind transmitted by Northern stations. It was a Saturday night ritual to gather around and try to get a good signal from WGN in Chicago to enjoy their broadcasts from The Trianon Ballroom, featuring the bands of Kay Kayser, Artie Shaw, and Harry James. I was a DX'er and was DX'ing but I still didn't understand.

It was not until the mid-fifties when I became interested in Ham Radio and first heard the terms "DX", "DX'er", and "DX'ing" that I found out they related to the search for distant stations. The frantic struggle for QSL cards began. I became a non-participating member of ARRL. Now, I thought: "I am a DX'er", little realizing I still did not understand.

After the novelty of "sending" wore off and appreciation of "the gentle art of listening" set in, I transferred my energies toward DX'ing the HF bands. I joined a shortwave listeners club and began to participate in club activities. Several awards (wallpaper) resulted from these activities, but more importantly, I met and corresponded with some very fine individuals and the sharing of information greatly contributed to the joy and knowledge of DX'ing activities. Now I was a DX'er and I understood.

I'll be celebrating my 72nd birthday in a couple of months and am sad to realize I'm no wiser than I was over 60 years ago. I make about the same number of mistakes as I did then.

I can say, however, that I believe I have attained a degree of understanding. DX'ing can be a solitary, self-serving hobby that provides hours of interesting entertainment to the DX'er, and there is nothing wrong with this situation. DX'ing can be made into a more productive and enjoyable experience when the DX'er contributes to the hobby and becomes an active participant in related activities.

I don't have the opportunities to influence positively newcomers to MW DX'ing the way Paul Swearingen helped me through a column he wrote in **Monitoring Times**, nor do I have the ability to give fellow DX'ers direction the way Bill Hale has done in answering inquiries from me. I lack the experience Artie Bigley possesses in accumulating numerous looseleaf notebooks full of QSL's and coverage pattern information which he has generously loaned me from time to time. What I have is the opportunity, ability, and experience to participate in NRC activities. By doing this, I understand my BCB monitoring activities can become more interesting, and I am provided an opportunity to communicate with some well-informed and very nice people. (And right you are, Jim. But you did have the opportunity to influence positively newcomers to MW DX'ing, and oldtimers - over 700 are reading it right now. Your letter should be required reading for ALL DX'ers! -pls)

Jack Woods - P. O. Box 1003 - Waldport, OR 97394

The "65 and over" theme seems a good time for a Musing. I passed that point in life a couple of years back. I was introduced to the technical side of radio at the Army Air Forces radio school at Trux Field, WI, starting in November, 1942. That started me toward a career in electronics over the next 30 years, during which I held jobs both as a technician and engineer. The Army radio school was mainly a routine of lectures, study, eating, and sleeping in tarpaper-covered buildings in the Wisconsin winter. We did get a day off each week, and I have pleasant memories of the very friendly and hospitable people of Madison, WI.

Some time in the 1950's I started DX'ing in an informal, occasional way, and that is how I still do it. My present location is at the edge of the Paacific Ocean and may produce some good TP DX when and if conditions improve. The nearest AM station is at Newport, OR, and their transmitter is about 20 miles distant and screened by hills. This situation will probably change this year, as a 250-watt daytimer is planned for Waldport. Reportedly, the owner will install equipment which he used at a different location, including a 1950-era transmitter. The format is to be EZL. There is a market for that, but not a very large one. The population which will be reached during daytime is only a few thousand people mostly in small communities along the coast.

Noted that the NRC Night Antenna Pattern Book will not be updated or produced in the future. That is regrettable. That book is the most professional of all the MW club publications. The first section includes a very good minimum-mathematical explanation of how antenna radiation patterns are developed. Maybe that section could be made available as a reprint. Best regards to all.

Frank Wheeler - 6589 Wattsburg Road - Erie, PA 16509

I can't believe it, 57 years of BCB DX'ing. Of course DX'ing now is a far cry from the '30's, and '40's, when there weren't many 24-hour stations. In those days you could get many 100-watters from the West Coast. I have received 95 100-watters, some from WA, OR, and CA. I have received 8 50-watters, 3 25-watters, 1 15-watter, and 1 10-watter. I have verified 25-watters from Manitoba (10 AB), and SK. My farthest station received was IYA New Zealand verified; I received this station 18 times that year. My first verie was from KFI, 2nd from VAS Nova Scotia. My first thrill of receiving a foreigner was from XER

in Mexico. I awakened the other family members to hear it. My first S. American station received and verified was YVIBC Venezuela. I have received 15 other S. A. stations. I have received 2 French stations and DER Germany (verified). I also received KGU Hawaii and KFAR Alaska. I have had many pleasant hours of DX'ing and have met many DX friends. I have used 6-, 9-, and 12-tube Silvertones, Grunow, Westinghouse, Hallicrafters S38, and my present sets, S40-B Hallicrafters and Realistic DX-160. I have used longwire antennas, Wooster #1, a Steward Loop, and 175' longwire antenna, the last two being in use at the present. I have belonged to the Globe Circler's Club, United States Radio Club, the Canadian DX Relay, IRCA, and at the present, NRC. I have belonged to the NRC for over 40 years. May all have a wonderful DX year and good year otherwise in 1988. My totals are now received: 2636, and veries; 1775. Thanks to all those who worked hard down through the years putting out the bulletins.

Bill Andres - 23 Alanson Lane - #3 - Hampton Bays, NY 11946

A new logging this past 12-19 brings the season's totals to an even one. An explanation for this meagre total may be required, even when terminal unpacking, mid-winter slot and underachiever DX taxi-squad status on the New York Jets team are weighed (I never was a starter on the team). My main totals were accumulated in South Ozone Park, Queens, about one sonic boom south of JFK airport.

During these years, it was decided at an exhaustive, smoke-filled summit attended by the Het hierarchy (Lamerson, Cavaseno, Javetski, and myself) that a 10-mile limitation be placed on the deployment of long-range AM signal reception. Such being agreed upon, none of the treaty signers could morally regard a station heard while outside the Ten-Mile Limit as "new". Conversely, any vulnerable minnow snatched from the pool inside the radius could be considered as just spoils. These limitations resulted in newer methods of signal detection, including my rather sophisticated method of electronic sleuthing, whereby I roar throughout the old neighborhood with the QRM full blast en route to somewhere interesting.

So with the car crammed to the dome light with convivial party creatures screaming "Let's DX!!" while sneering menacingly at other Southern State Parkway motorists, we nabbed the elusive WAGE-1200 ID'ing several times before the great gray checkpoint wall of the Hempstead Lake Reservoir was transpierced. Soft rock and well-tested Christmas favorites bobbed up and down with the restrained frivolity of the Independence Bowl game from an UnID.

The forthcoming QSL will be shared in four equal parts, on display on a rotating seasonal basis, at each of our dens. Plans are now being formulated to entrench along the appropriate outer perimeters of the Ten-Mile Radius during an unspecified future SSS in pursuit of WWII on 720, WNNZ-640, and others waiting to be stuffed and/or mounted. Best in the New Year to all - 73. (Very droll, Bill ... we need more experiences like these! -pls)

David Shapiro - 484 Hammond Drive - Griffin, GA 30223-4024

Hello again. I am back to medium wave DX'ing and use a Patrolman DX-160 from Radio Shack. Last night I received WHBO-1040 before their power cut at 0530, and no sign of Radio Moscow Relays, which is a pest here. WHO is only strong at late nights or pre-SRS. I will return to the college class room where I will take courses in news reporting and writing that relate to radio and newspaper reporting. I am seeking specific info on trade or DX sources about the Hispanic radio station markets and programming information of the U. S. and Mexico, and will trade high-quality books on old-time radio programming for sources. I also would like to hear from area MW and TV DX'ers in cities and towns close to the Mexican border to exchange tapes and DX info. During SSS and afterwards, I can hear the Atlantic Beacon-1570 and the Caribbean Beacon-1610 daily and those Bible-thumping beacons put in strong signals here. 73 and good DX.

Gerry Thomas - P. O. Box 2036 - Pensacola, FL 32513

A belated Happy New Year to all! I certainly haven't contributed to this column much in the past couple of years. It's not because I haven't been involved in radio during this time, it's just that I've been up to my ears in Radio Plus+ and, during the past nine months or so, an incredible series of family concerns. Briefly, last March my daughter suddenly and mysteriously lost central vision in both eyes. This stumped everyone and required our dropping everything and flying her all over the country during the spring and summer seeking expert opinions (consensus - virally induced juvenile macular degeneration). Needless to say, this took great gobs of time and cash and left Radio Plus+ in a state of limbo. Perhaps as a result of the stress my wife gave very premature birth to a baby boy in April; he didn't make it. Things didn't really begin to settle down until October when we moved our daughter to college to live on campus (she can no longer drive). I'm just now finishing up the Radio Plus+ correspondence and re-orientation. We are still in business but will no longer carry radios, just our own products. The 2010 Sidekick, Superloop, and Phase 2 are in pre-production testing now. If I owe you a letter, please hold on a bit longer; I'm nibbling away at the pile. I can tell that things are beginning to return to normal somewhat because I've been able to log a couple of DX sessions in the past few weeks, hi. Finally, there is some good news around here; my wife became pregnant again in May and we are expecting in February ... late-night feedings and DX'ing loom on the horizon, hi. Best to all in '88. 73's ... GT. (And our sympathies are with you and your family, Gerry. It's good to have you back, too -pls)

VERIFICATION SIGNERS

Wayne Heinen, 4131 S. Andes Way, Aurora, CO 80013

Catch "AM Interlude" on HCJB

Freq	Call	Signer	Contr	Freq	Call	Signer	Contr
530	CJFTm	Robert K. Daney PD	WA/OM/JT	1290	WKLBr	Larry Barker P	KJ
570	KLDD1m	Hue Beavers CE	OM	1290	WTKR1	Jim Brownell	KJ
580	WDBO1	Ben Dickerson GM	KJ	1330	WESR1m	Charles F. Russell GM	KJ
400	WREC1	Fred Cook PD	PT	1340	WGAU1	Larry England OpM	BP
430	KVMA1	Dan Gregory VP	PT	1340	WGN1m	Ron Lucas DJ/M	BP
440	KFIq	Marv Collins CE	PT	1340	WIXZ1	Jonathan Rhodes PD	BP
470	TGRTcu	Javier Maldonado A	OM	1370	KCRUu1	Tom Hill CE	KJ
490	CBKFIq	U/U	WH	1370	KXTLmb	Andre Martell-Steel OpM	OW
720	KDMq	Michael A. Messina CE	OM	1380	WKDM1b	M.E.Heinemeyer CE	BP
720	KSAHq	William J. Haberer CE	WH	1380	WQHK1b	Daniel Mettler ACE	OW
720	WJ111	Carl C. Kuehn II CE	HH	1390	WXTC1	Gary D. Robinson CE	BP
740	KATK1b	U/U	OM	1400	KLIN1	Charlie Michaels M	OW
750	WNDZ1m	Roger Winsor DJ (NRC)	BP	1420	KIXT1	Jeff Wood M	KJ
780	WZZX1m	Sissy Campbell	KJ	1430	WAGS1	Mike Levine	BP
790	WGRA1	Jeff Lovett OpM	KJ	1440	KOPAlbz	Gary Jacques CE	WH
810	KH1K1b	John Lyons Ops	OM/WH	1440	KWZ1	Steve Stephenson O	BP
810	KWMS1	David Thompson	PT	1440	WSSL1	Brian A. Chase DoE	BP
810	WJXL1	William E. Bussey	KJ	1450	WOKJ1	Jim Jackson VP0p	BP
820	WAP01	Mike Jackson CE	KJ	1460	WR0L1	Bill Witherspoon COp	BP
820	WAP01	Phil Patton O/GM	KJ	1470	WBUL1m	Rick Faulkner PD	BP
860	WSON1z	Lee Ann Williams Oliver M	KJ	1480	WAAJ1	Sandy Sanders M	BP
900	WXXV1	Ted Lowe Jr	KJ	1480	WONS1	Wendy O'Brian HxD	BP
910	CKLY1m	Don Blakely PD	BP	1480	WJCFup	Wayne Burdick GM	KJ
910	WVFRr	U/U	BP	1490	WTRL1	Jack Caron OpM	KJ
920	WKYD1	Miss Peggy Eiland M	KJ	1510	WSSH1	John D. Kennedy CE	HH
930	WHDN1	Horace N. Smith	BP	1530	CISV1	Jim Williams CE	OW
930	WJBY1m	Joyce Henderson OpM	PT	1530	KCTTul	Scott J. Miller	KJ
950	WAKM1	William W. Ewin Jr	BP	1530	WARD1	Ron Schacht CE	BP
990	KGTM1	Bob Crockett DoE	BP	1550	WQNF1h	Ernest O. Sutton Jr CE	BP
1010	CBRq	Robin May PR	PT	1570	CISV1	Jim Williams CE	OW
1010	WDL1	R.B. Baine O	BP	1570	WKBH1b	Ken Kahler	OW
1020	KCMN1u	Ken Pains CE	OM/WH	1590	KGAY1	Michael P. LeBlanc M	KJ
1020	WR1X1	Don Rice M	HH	1590	KYDE1	Jerry Mason GM	KJ
1030	WNOV1	Rainbow L. Cowan ExAdm	BP	1600	WRBN1	Don Jones PD/CE	BP
1040	WSSH1	Lewis B. Huches GM	BP				
1050	KCAS1	Jerome Orr O	PT				
1050	KDXX1m	Don Davis GM/CE	OM				
1090	WHLm	Jack Heyden GM	KJ				
1110	WZAM1	U/U	BP				
1120	WYN01	James D. McLin COp	HH				
1130	WBZ1	Mark R. Lance P	BP				
1140	CISSf	U/U TD	OM				
1180	KKAR1b	Steven J. Boucher DoE	WH	BP	Bill Prater	KY	
1180	WMLX1	Jeff Ziemann HxD	BP	HH	Hank Holbrook	MD	
1190	WMLD1u	Edwin P. Allen III DoE	KJ	OW	John Wilkins	CO	
1200	WAYD1	Harold Smith P	BP	JT	Jeff Tynan	CO	
1200	WAYD1r	Charles Berry	KJ	KJ	Karl Jeter	GA	
1210	WSB11	Eddie Coop M	BP	PT	Phil Tallman	OK	
1220	WTON1m	Steve J. Autey OpM	OM	WH	Wayne Heinen	CO	
1230	KCON1bz	Mark Mauney CE	OM				
1230	WAND1	Al Thurley PD	OM				
1240	WLLV1	Elder Ben Higgins M	BP				
1250	KCIW1b	Ann Blackford GM	OM				
1250	WKSUc	Dennis Haarsager GM	OM				
1250	WIZZ1	Al Moll GM	KJ				
1260	KF60r	U/U GM	OM				
1270	WCBCr	Eileen Llewellyn Secy	BP				
1270	WNYD1mb	Fran Malphrus GM	BP				
1280	KOKL1z	Richard E. Douglas E	WH/OM				
1280	WAD01m	Richard N. Ross CE	BP				
1280	WKST1	Werner Ulrich II CE	HH				
1290	WHKY1	Jeffrey B. Long	KJ				

Initial	Name	Loc
BP	Bill Prater	KY
HH	Hank Holbrook	MD
OW	John Wilkins	CO
BP	Jeff Tynan	CO
KJ	Karl Jeter	GA
PT	Phil Tallman	OK
WH	Wayne Heinen	CO

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