



DX NEWS

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National Radio Club*

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The Medium Wave Circle of England, regrets to announce the death of their editor, Charles Molloy, on Thursday, April 11, 1985. Charles took a major part in the re-establishment of Medium Wave Circle and his contributions will be greatly missed. We offer our deepest sympathy and sincere condolences to his family and in particular to his widow, Mary. Steve Whitt has agreed to take over the editing of "Medium Wave News".

50TH ANNIVERSARY BOOK special price—US\$10.00 for US and Canada and US\$20.00 for the rest of the planet. A couple of cases of this book were found in the last inventory. This offer is valid only through August 31, 1985 or until the books are gone, whichever comes first. If you have not yet received your copy of the history of the NRC, get your order today while supplies last. Send orders to: Publications Center, P.O. Box 164, Mannsville, NY 13661.

NRC DX Audio Service Have you ever heard of this magazine talk?? Well, it does...sorta. A new service started by the NRC, primary for the visually-handicap person, takes the AM Switch and other column highlights and features and we've got it into a nice cassette package. A sample tape can be purchased for US\$3.00. Send your check to us here at the HQ Address (found on the back page). It's great listening during drive time!!!

Radio Marti now that they are on the air. Please advise us here at HQ of any unusual radio activity by the Cubans. We are particularly interested in reports of stns that are heard in the northern half of the country. Now....don't report the usual cuban stuff that we all hear all the time...unless of course you can hear it during the day!! We would be interested in increases of powers of the cuban stations also. Thanks.

Universal Shortwave has their catalog (8606) available for \$1.00 refundable or Three (3) IRC's. The green covered book contains many new publications, accessories, and antennas and are shown for the first time in this edition. NRD-515 accessories are also offered at a special price. Get the catalog by sending the buck to: Universal Shortwave, 1280 Aida Drive, Reynoldsburg, OH 43068.

1985 ANARC Convention We have been mailing out registration information, if your interested on coming just drop us 2 mint U.S. stamps and we will send out all the necessary stuff. Write to us at the HQ address. If you can't make it to the NRC Convention in Rhode Island, why not try this one out! A lot of SW Radio Broadcasters will be at this one, more than ever before!! The deadline is quickly approaching, June 19, 1985 is the final date for reservations, get yours in TODAY!!!

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DON'T FORGET ---- Listen to Wayne Heinen's "AM Interlude" on HCJB each and every Saturday evening local day, 0230 UTC.

AM SWITCH

Jerry Starr, c/o WHOT Radio, 401 N. Blaine Ave., Youngstown, OH 44505

CALL LETTER CHANGES

Old call:	New call:	Old call:	New call:
640 *New NJ Mount Holly	WMHN 1210	*New TN Static	WSBI
740 WMBG VA Williamsburg	WQSF 1220	KZYM MO Cape Girardeau	KZIM
750 *New TX El Paso	KEPB 1290	KTRN TX Wichita Falls	KLLF
810 KWSR CO Rifle	KDBL 1310	KRNN TX San Antonio	KBUC+
830 *New KY Franklin	WACN 1330	WAVX FL Milton	WEBY
910 WUSA IN Mishawaka	WMSH	WSPP NY Springville	WSPQ
930 WCDJ IL Sandwich	WBYG 1350	KLYD CA Bakersfield	KUNN
WITN NC Washington	WRRF 1370	WNYD RI Wickford	WKFD
KLLS TX Terrell Hills	KRNN+ 1400	KIVR OR Cave Junction	KBGG
970 KLHT WA Spokane	KZZU 1420	WHEZ WV Kenova	WTCR
1040 WKOG KY Cannonsburg	WOKT+ 1470	WSAN PA Allentown	WXXW
1050 WHGI GA Augusta	WIGL+ 1480	KLSC SD Watertown	KSDR
1090 WBOZ PR San German	WSOL	*New ID Gooding	KIDI
1120 *New TN Maryville	WCGM 1540	KUQQ TX Fort Worth	KMIA
1200 *New FL Pine Island Center	WDCQ 1560	WKXX IN Paoli	WWMJ
*New FL Thonotosassa	WFLZ	WJDS TN Bolivar	WQKZ
*New SC Hollywood	WWRJ 1580	KLOU LA Lake Charles	KXZZ

+KRNN was never used on 1310 since the change involved a sale that fell through, 1310 has remained KBUC. A subsequent sale of KLLS-930 resulted and KRNN was put on the air here instead. WHGI-1050 was granted WTCB but it was set aside and never used, they have now changed from WHGI to WIGL. WKOG-1040 was never used, this is a new station not yet on the air.

APPLICATIONS FOR NEW FACILITIES

700 MD Walkersville: 5000 D3 (reapplies)
720 FL Hernando: 10000/2500 U2 (2nd application)
810 TX Somerset: 500 D3 (second application)
840 MI Hemlock: 1000 D3
WI Plover: 5000 D3 (reapplication)
WI Seymour: 500 D3 (reapplication)
910 AK Galena: 5000/5000 U1 (non-commercial)
990 WI Mayville: 250 D3
1040 AZ Pinetop-Lakeside: 10000/1000 U4
OK Perry: 250 D3
1100 FL Longwood: 50000/1000 U4
1120 FL Destin: 1000 D1 (second application)
FL Umatilla: 5000 D3
MS Petal: 1000 D1 (second application)
TX Bridge City: 2500 D3
1230 GA Walkersville: 1000/1000 U1
1290 TX Kerrville: 1000 D1 (third application)
1400 WA Silverdale: 1000/1000 U1 (reapplication)
1510 GA Snellville: 1000 D1 (100 CH)
1590 WI Biron: 500 D1
1600 AR Bellefonte: 500 D1

GRANTS FOR NEW FACILITIES

650 NV North Las Vegas: 10000/10000 U3 (corrects previous listing)
670 FL Miami: 50000/2500 U4 (corrects night power)
720 MS Richland: 5000 D1
780 FL Siesta Key: 5000/1000 U4
830 KY Franklin: 250 D1
SC St. Andrews: 10000/1000 U1
870 NV Laughlin: 10000/1000 U3
1020 AK Eagle River: 10000/2500 U2
1160 AL Mobile: 10000/1000 U2
1190 GA St. Marys: 2500 D1
1200 FL Pine Island Center: 10000/1000 U4
FL Thonotosassa: 10000/1000 U4
SC Hollywood: 25000/1000 U2
1320 FL Coleman: 500 D1
1440 TN St. Josephs: several services list this grant but nobody has listed any power/mode. We have no record of this being applied for, could be a miscue in the FCC public notices. More if it happens.
1520 WA Sequim: 5000/5000 U2 (see Otherness for more info on this grant)

APPLICATIONS FROM EXISTING STATIONS

700 KTMI WA Newport: move station to Grangeville, ID 5000/5000 U4 (a move of over 200 miles, this new station is not on the air yet)
710 WGBS FL Miami: night power to 25000
WUFF GA Eastman: 2500 D1
810 WKBC NC North Wilkesboro: to 800 kHz with 1000 D1
850 WIVS IL Crystal Springs: power to 2500
WQKA NY Penn Yan: to non-directional
880 WRFD OH Worthington: 50000 D3
1140 WRNA NC China Grove: 1000 D3 (250 CH)
1240 KPPC CA Pasadena: power to 400 watts, mode to N1 (operate only from sunSET to sunRISE seven days a week, presently is SH1 and operates a few hours on Wednesday and Sunday. This would set precedent for, while Canada has several N1 operations, we have none here in the US.)
1270 WNOG FL Naples: night power to 2500
1280 KDYL UT Salt Lake City: raise night power to 750 (see Otherness)
1390 KBBO WA Yakima: 5000/500 U4 (reapplication)
1420 WFLT MI Flint: to Burton, MI with 5000/5000 U4
1430 KGAY OR Salem: to Keizer, OR with 5000/5000 U2
1440 WRHX VA Herndon: to Arcola, VA with 500 D1
1450 KONP WA Port Angeles: 1000/1000 U1
1460 WZEP FL DeFuniak Springs: power to 5000
1470 WSRO MA Marlboro: antenna from U4 to U2
WLAM ME Lewiston: antenna from U3 to U2
1480 KAAR WA Vancouver: antenna from U2 to U1
1490 WVBG SC Beaufort: 1000/1000 U1
1520 KMPG CA Hollister: 5000 D3
WTLN FL Apopka: to 1510 kHz 25000 D1 (reapplication)
1590 KSRN NV Sun Valley: power to 5000
1600 WCKZ GA Austell: power to 2500

GRANTS TO EXISTING FACILITIES

550 KUZZ CA Bakersfield: 1000/1000 U4
590 WPLO GA Atlanta: relocate XR, changes in antenna system
640 WOI IA Ames: add 1000 watts night, U2
680 WCNN GA North Atlanta: changes in antenna system
750 WNDZ IN Portage: relocate XR (new station, not on)
KEPB TX El Paso: relocate XR (new station, not on)
770 KATL MT Miles City: relocate XR (new station, not on)
850 WLRC MS Walnut: power to 1000
860 KTRB CA Modesto: power to 50000/10000 U4 (corrects info supplied by the STATION which was wrong)
WBGR MD Baltimore: changes in antenna system
870 KIEV CA Glendale: 10000/1000 U4
880 KJJR MT Whitefish: night power to 1000, antenna to U2
890 KVOZ TX Del Mar Hills: relocate XR (still on 1490 kHz from Laredo, TX)
940 KSWM MO Aurora: power to 1000
960 WGRR AL Pritchard: 2500/1000 U2 (separate night XR)
990 WHOO FL Orlando: previously licensed antenna now auxiliary ant. for CH
1000 WMUF TN Paris: 5000 (2500 CH) D1
1010 KRKX OR Milwaukie: relocate XR (new station, not on)
1030 WBZE MD Indian Head: changes in antenna system (new station, not on)
1040 WKAO FL Boynton Beach: relocate XR
1110 KTEK TX Alvin: power to 2500 D3
1130 WDGY MN Minneapolis: relocate daytime XR
WCBX NC Eden: to 830 kHz 1000/1000 U2
1140 KVLI CA Lake Isabella: power to 1000
1180 WJJN IN Newburgh: power to 1000
1190 WKOX MA Framingham: to 1200 kHz 50000/50000 U2 (corrects powers)
1210 WHOY PR Salinas: night power to 5000
KOJO WY Laramie: day power to 10000, power reduction changes U4 to U2
1220 WEZG NY North Syracuse: to 1200 kHz 1000/1000 U2
1230 KWYZ WA Everett: install auxiliary antenna
1250 KHOT CA Madera: changes in antenna system for their 500/500 U2 CP
1260 WCRT AL Vestavia Hills: to Homewood, AL, relocate night XR
1280 KTOL WA Lacey: add 500 watts night, U2
1290 WAGE VA Leesburg: to 1200 kHz 5000/1000 U2
1380 KOTA SD Rapid City: changes in antenna system
1410 KVEG NV North Las Vegas: relocate daytime XR
1430 KCLK WA Clarkston: move to Asotin, WA with 5000/1000 U4, relocate XR
1460 KCKX OR Stayton: relocate XR

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 1470 WMMW CT Meriden: night power to 2500
 1490 WPOR ME Portland: relocate XR
 WMOR OH Marietta: operate at full radiation efficiency
 1520 WEXY FL Oakland Park: add 250 watts night, move to Wilton Manors, FL
 WYRU NC Red Springs: to 1160 kHz 5000/250 U2
 1530 WJDM NJ Elizabeth: relocate XR, new antenna
 1560 KLLV CO Breen: to 1490 kHz 1000/1000 U1
 1580 WMTL KY Leitchfield: to 870 kHz with 500 D3
 WLIM NY Patchogue: critical hours power/antenna from 5000 D3 to 1000 D1
 WJIK NC Camp Lejeune: to 830 kHz 10000 D3
 WTTN WI Watertown: changes in antenna system

OTHERNESS

600 KIIIX CO Fort Collins: requests extension of CP for move to Wellington
 640 WMSO TN Collierville: application to move to Germantown dismissed
 650 WBSO MA Clinton: requests CP extension
 660 WCRR VA Rural Retreat: new station is on
 670 *App TN Farragut: application for new station returned
 680 *App KY Newburg: application for new station returned
 *App KY Okolona: application for new station returned
 KVG0 LA Pineville: new station is on, black format
 700 *App TX Coppell: application for new station returned
 *App TX Lewisville: application for new station returned
 720 WMMY GA Hogansville: new station is on, black/gospel format
 *App MS Ellisville: application for new station DISMISSED
 *App TX Marble Falls: application for new station DISMISSED
 *App TX Universal City: application for new station DISMISSED
 770 WYRV VA Cedar Bluff: new station is on
 790 KXTC CA Clovis: requests extension for fulltime CP, presently silent
 810 *App TX Somerset: application for new station returned
 830 *App GA Lithia Springs: application for new station returned
 *App SC Bluffton: application for new station DISMISSED
 *App SC San Souci: application for new station returned
 840 WNUY FL Scottsmeer: new station is on, religious format
 880 KKMC CA Gonzales: application for power increase returned
 WREE GA College Park: CP expired, FCC has issued reinstatement of CP
 KIXI WA Mercer Island/Seattle: application for night power increase returned for further engineering
 890 *App FL Port Orange: application for new station returned
 WYAI MS Ridgeland: new station is on
 930 KRDL CO Granby: requests extension of CP time for this new station
 KWDZ KY Midway: requests extension of CP time for this new station
 960 KCGS AR Marshall: is now on this frequency, ex-1600 kHz, 500 D1
 1040 KAIN LA Vidalia: requests CP extension
 1080 KPRX UT Price: fulltime CP is on
 1100 WUBS IL Harrisburg: new station is on
 KELM MN Madison Lake: target date in 10/14/85
 WQDQ TN Thompson Station: new station is on
 1110 KMAC AZ Marana: requests CP extension
 1120 *App MS Petal: application for new station returned
 WCGM TN Maryville: new station is on, 500 watts, not 5000 in Log
 *App TX Bridge City: application for new station returned
 *App TX Manor: application for new station returned
 1130 WSDM IN Brazil: this silent station has returned to the air
 *App NM Milan: application for new station returned
 1140 KCSY AK Soldotna: new station has been testing, should be on soon
 1160 WCCS PA Homer City: moved to this frequency 5/17, NSP, ex-1520 kHz
 1180 WFGN SC Gaffney: now on this frequency, ex 1570 kHz
 1190 *App FL Callahan: application for new station DISMISSED
 1200 KCPC CA Rancho Mirage: requests extension of CP
 *App NV New Washoe City: application for new station DISMISSED
 1240 KYOR AZ Globe: this silent station has returned to the air, C&W format
 1270 KPRM MN Park Rapids: requests extension of CP for 870 kHz
 1280 KFRN CA Long Beach: application for power increase returned
 1300 *App FL St. Augustine Beach: application for new station DISMISSED
 1310 KFYI CA Oakland: station is silent
 KXAK NH Corrales: requests another CP extension for this new station
 1370 WKSH WI Sussex: this silent station is back on with REL format, ex-WGNW
 1390 KPPL CO Denver: this station was silent for several weeks after the owner of their leased XR property foreclosed and impounded all their equipment. Has been operating sporadically from a new location with 500 watts into a longwire, all per WH, who reports their signal is very weak from the longwire.
 1400. KVLA LA Vidalia: is on this frequency, ex-1390 kHz

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 1420 WFLT MI Flint: CP to move to Burton and fulltime expired, the FCC refused another extension so they are applying all over again, see Applications from Existing Facilities.
 1450 WNAB CT Bridgeport: station is silent pending sale
 KDXU UT St George: requests yet another extension of CP for 890 kHz
 1450 WHRY WI Hurley: new station is on
 1470 KDUN OR Reedsport: station is silent
 1480 WABB AL Mobile: application to move to 1160 kHz DISMISSED
 KLAY WA Lakewood: application to move to 1180 kHz returned
 1490 KTOP KS Topeka: application for antenna changes DISMISSED
 1510 WRUA PA Monroeville: station is silent
 1520 KMPG CA Hollister: application for power increase returned
 *App WA Oak Harbor: application for new station DISMISSED. There were two applicants for 1520 kHz, one in Oak Harbor and one in Sequim. Both applicants decided to merge into a single company and drop the Oak Harbor application. Sequim was then granted as noted in Grants for New Facilities
 1540 WBJA PR Guayama: application for fulltime returned.
 1560 KJUW CO Colorado City: requests extension of CP for this new station
 1570 WKBH WI Holmen: application for power increase returned

The FCC has been very active in the past month and a number of rulings have come forth that will have a bearing on the DX hobby. They are:

- 1) The FCC has approved a rule change that makes it possible for AM stations to operate at intermediate power levels. The application by KQYL-1280 to up their night power to 750 watts is the first one made after this rule change. The FCC will phase in the plan during a three-year period to minimize the burden of processing applications. During the first three years the FCC will accept only applications for power increases of 50 percent or more. After the three-year limit has passed, the FCC will accept applications for power increases of 20 percent or more. At no time will they accept applications for increases less than 20 percent since such increases would "yield little public benefit." Under no circumstances will the FCC accept any applications to reduce power to an intermediate level. If, for example, a station with 5000 watts wanted to simplify their DA system by dropping to 3500 watts, this would not be accepted. To do so they would have to apply to reduce to the next lower standard power level which would be 2500 watts.
- 2) The FCC is proposing to raise maximum power levels from 5000 to 50000 watts for Class III AM stations in Puerto Rico, Virgin Islands, Hawaii and Alaska.
- 3) The FCC has deleted Section 73.37e which required applications for new or improved AM stations to cover previously unserved or underserved areas. In past years this has led to stations being licensed to tiny suburbs adjacent to larger markets which the licensee really had little intention of serving. Broadcasters will no longer need to find or invent locations in order to get the license or improved facility
- 4) The FCC announced the completion of the agreement with Canada which would make possible fulltime operations for all stations now operating daytime only on the Canadian clear channels. Under this agreement 519 AM daytimers on the 14 Canadian clears will be able to operate fulltime with up to 500 watts. The FCC will notify these stations soon of their power levels, the stations will NOT have to apply for fulltime, it will simply be granted across the board. The power levels will be computed much like the PSSA powers were for the regional channel stations. These authorizations will, however, be for FULLTIME, not just a few extended hours as the PSSAs were. The FCC hoped to notify all stations of their power levels by the "end of summer." Stations operating daytime on Mexican and Bahamian clear channels are not as lucky since the negotiations with the Mexicans are not yet complete and the next session with Mexican officials won't come until mid-summer at least. The agreement with Canada also opens the door for about 40 new stations on the Canadian clears. Operations on 540 kHz are not included since that frequency is also a Mexican clear.

WOW! A four-pager, the longest AM Switch since this column began. And, it's not over yet for following are several pages of address changes.

73 and Good DX,

Jerry & BIKF

Jerry Starr & Buffalo K. Foonman
 (They of the tired typing fingers)

STATION ADDRESS CHANGES

Jerry Starr, c/o WHOT Radio, 401 N. Blaine Ave., Youngstown, OH 44505

570	CKSW	SK SWIFT CURRENT	BOX 570	0A-SW
580	WHP	PA HARRISBURG	BOX 1507	17105 JS
580	WGAC	GA AUGUSTA	BOX 11045	30907 JS
590	KHAR	AK ANCHORAGE	BOX 111566-SOUTH ST.	99511 0A-SW
600	WFRH	PA COUDERSPORT	9 S. MAIN ST.	16915 JS
600	WSOM	OH SALEM	465 E. STATE ST.	44460 JS
610	WIP	PA PHILADELPHIA	19th and WALNUT ST.	19103 JS
680	WRKO	MA BOSTON	ONE FENWAY PLAZA	02215 0A-SW
690	WYIS	PA PHOENIXVILLE	186 BRIDGE ST.SOUTH	19460 JS
700	WLH	OH CINCINNATI	3 E. NORTH ST.	45202 JS
730	WNAK	PA NANTICOKE	88 S. PROSPECT ST.	18634 JS
730	WJYM	OH BOWLING GREEN	8761 FREMONT PIKE - PERRYSBURG OH	43551 JS
760	KGU	HI HONOLULU	2255 KUHIO AVE.-WAIKIKI TRADE CTR.	96815 0A-SW
790	WHTH	OH HEATH	BOX 1057 NEWARK OH	43055 JS
810	WEDO	PA McKEESPORT	414 FIFTH AVE.-MIDTOWN PLAZA MALL	15132 JS
810	WGRT	IN INDIANAPOLIS	11 S.MERIDIAN - SUITE 550	46204 RW-IL
830	KABN	AK BIG LAKE	BOX 17000-D	0A-SW
840	KWPN	NE WEST POINT	P.O.BOX B	68788 NZ-NE
850	WJAC	PA JOHNSTOWN	109 PLAZA DR.-BOX 309	15907 JS
850	KOA	CO DENVER	BOX 85	80236 0A-SW
860	WANO	PA PITTSBURGH	CHAMBER of COMMERCE BLDG.-SUITE 1500	15219 JS
860	WDAY	WV OAK HILL	BOX 251	25901 JM-PA
900	WFRO	OH FREMONT	905 W. STATE ST.	43240 JS
900	KNUI	HI KAHULUI	311 AHO ST.	0A-SW
920	WMNI	OH COLUMBUS	1458 DUBLIN RD.	43215 JS
930	WEOL	OH ELYRIA	BOX 4006	44036 JS
930	WLBL	WI AUBURNDALE	3319 W.BELTLINE HWY.	53713 JS
940	WCIT	OH LIHA	1301 N. CABLE RD.	45802 JS
940	KDEO	HI WAIPAHU	94-1088 FARRINGTON HWY.	0A-SW
950	WNCC	PA BARNESBORO	BOX 277	15714 JS
960	WHYL	PA CARLISLE	BOX WHYL	17013 JS
970	WATH	OH ATHENS	300 N.COLUMBUS RD.	45701 JS
980	KMFY	MN EAGAN	2110 CLIFF RD.	55122 0A-SW
980	KKEN	AK KENAI	BOX 3210	99611 0A-SW
980	KCUB	WI TWO RIVERS	BOX 98 MANITOWOC WI	94220 0A-SW
990	WLKW	RI PROVIDENCE	1185 N. MAIN ST.	02904 JS
990	WZZD	PA PHILADELPHIA	117 RIDGE PIKE - LAFAYETTE HILL PA	19444 JS
990	WTIG	OH MASSILLON	35 ERIE ST. NORTH	44646 JS
990	KHUV	HI HONOLULU	1001 BISHOP ST.-PANAHI TOWER-STE.660	0A-SW
1000	WSUM	OH PARMA	BOX 33250 N. ROYALTON OH	44133 JS
1010	WTGC	PA LEWISBURG	COLONIAL PARK-R.D.#1	17837 JS
1050	WTSJ	OH CINCINNATI	602 MAIN ST.-SUITE 420	45202 JS
1070	KMON	MN MONTICELLO	BOX 900	GH-KS
1080	KNAI	HI HONOLULU	1946 YOUNG ST.-SUITE 420	96826 0A-SW
1100	WGPA	PA BETHLEHEM	528 N. NEW ST.	18018 JS
1110	WHIM	RI PROVIDENCE	125 EASTERN AVE. - E.PROVIDENCE RI	02914 JS
1110	WJSM	PA MARTINSBURG	118 LOCUST ST.	16662 JS
1110	WMMX	OH XENIA	BOX 219	45385 JS
1120	WCGH	TN MARYVILLE	2537 OLD KNOXVILLE HWY.	37801 JS
1130	WCTH	OH EATON	134A WOODSIDE DR.- W.ALEXANDRIA OH	45381 JS
1130	WISN	WI MILWAUKEE	BOX 402	53201 0A-SW
1140	CKXL	AB CALGARY	804 16th AVE. S.W.	T2R 0S9 0A-SW
1150	WYNE	WI KIMBERLY	BOX 1150	54136 0A-SW
1150	CHSJ	NB ST. JOHN	BOX 2000	GH-KS
1160	KSL	UT SALT LAKE CITY	(add 1160 to zip)	84180 0A-SW
1180	WSAF	GA SUMMERVILLE	BOX 680	30747 RW-IL
1190	WGKA	GA ATLANTA	2999 PIEDMONT - BOX 52128	30355 RW-IL
1220	KCKW	NB MONCTON	BOX 1459	E1C 8T6 0A-SW
1230	WBPZ	PA LOCK HAVEN	738 BELLEFONTE AVE.	17745 JS
1230	WCRD	PA JOHNSTOWN	407 MAIN ST.	15901 JS
1230	WCWA	OH TOLEDO	124 N.SUMMIT ST.-SUITE 400	43604 JS
1230	WCOL	OH COLUMBUS	22 S. YOUNG ST.	43215 JS
1230	WDJO	OH CINCINNATI	225 E. 6th ST.	45202 JS
1240	WHUM	PA READING	45 S. FRONT ST.	19603 JS
1250	WNOW	PA YORK	BOX 2506	17405 JS
1250	WOFR	OH WASHINGTON COURT HOUSE	1535 N. NORTH ST.	43160 JS
1270	WLBR	PA LEBANON	ROUTE 72 NORTH	17042 JS
1290	WQIN	PA LYKINS	316 MARKET ST.	17048 JS
1290	KUMA	OR PENDLETON	BOX 340	0A-SW
1300	WXPX	PA WEST HAZELTON	BOX 339	18201 JS
1300	WHCH	PA CLARION	725 WOOD ST.-BOX 688	16214 JS

1300	KMPS	WA SEATTLE		98124 0A-SW
1310	WGSA	PA EPHRATA	44 BETHANY RD.	17522 JS
1310	WDFD	PA BEDFORD	BOX 672	15522 JS
1310	WFAH	OH ALLIANCE	393 SMYTH AVE.	44601 JS
1330	KWSK	ND WISHEK	BOX 747	58495 JS
1340	WHPA	PA WILLIAMSPORT	230 MARKET ST.	17701 JS
1340	WKRZ	PA WILKES-BARRE	BOX 1600	18773 JS
1350	WCHI	OH CHILLICOTHE	1022 EASTERN AVE.	45601 JS
1350	WNIS	VA NORFOLK	BOX 10306	23513 GH-KS
1360	WNOH	OH CONNEAUT	CONNEAUT PLAZA-RT.20 WEST	44030 JS
1360	WSAI	OH CINCINNATI	W. 8th at MATSON PLACE	45204 JS
1360	KEYZ	ND HILLISTON	BOX 2048 (add 2048 to zip)	58802 0A-SW
1370	WNYD	RI WICKFORD	19 UPDIKE AVE. - N.KINGSTON RI	02852 JS
1370	WKMC	PA ROARING SPRING	S. MAIN ST. EXT.	16673 JS
1370	KSUH	MN FAIRMONT	1371 LAIRD ST.-BOX 491	0A-SW
1370	WMNY	SC SANTEE	BOX 189	29142 GH-KS
1380	WACB	PA KITTIANNING	BOX 730	16201 JS
1390	WHPH	OH BELLEFONTAINE	1501 ROAD 235	43311 JS
1400	WRAC	PA WILLIAMSPORT	1559 W. 4th ST.	17701 JS
1400	WEST	PA EASTON	436 NORTHAMPTON ST.	18024 JS
1410	WIZM	WI La CROSSE	BOX 99	0A-SW
1410	KVEG	NV N. LAS VEGAS	BOX 15223	89114 0A-SW
1420	WCOJ	PA COATESVILLE	BOX 1409	19320 JS
1420	WOC	IA DAVENPORT	BOX 3927	52808 0A-SW
1430	WIL	MO ST. LOUIS	300 TUCKER BLVD.	0A-SW
1450	WLEC	OH SANDUSKY	1640 CLEVELAND RD.	44870 JS
1450	WMOH	OH HAMILTON	2081 FAIRGROVE	45011 JS
1460	WPN	MI PONTIAC	2222 FRANKLIN RD.-BLOOMFIELD HILLS	48013 JS-OH
1460	KLTC	ND DICKINSON	BOX 1478	58602 0A-SW
1470	WMML	PA PORTAGE	BOX 280	15946 JS
1470	WKKW	PA ALLENTOWN	1183 MICKLEY RD. - WHITEHALL PA	18052 JS
1480	WHBC	OH CANTON	BOX 9917	44711 JS
1490	WNGW	PA HEADVILLE	DOWNTOWN MALL	16355 JS
1490	WIEZ	PA LEWISTOWN	12 1/2 E. MARKET ST.	17044 JS
1490	WOHI	OH EAST LIVERPOOL	236 W. 6th ST.	43920 JS
1500	WGFT	OH YOUNGSTOWN	131 W. BOARDMAN ST.	44503 JS
1500	KSTP	MN MAPLEWOOD	2792 MAPLEWOOD DR.	55109 0A-SW
1510	WLKR	OH NORWALK	202 OLD RD.	44857 JS
1520	WINW	OH CANTON	4111 MARTINDALE RD. NE	44705 JS
1530	WHYP	PA NORTHEAST	10325 W. MAIN ST.	16428 JS
1530	WBCW	PA JEANETTE	111 S. 4th ST.	15644 JS
1530	WCKY	OH CINCINNATI	219 McFARLAND ST.	45202 JS
1540	WPXZ	PA PUNXSUTAWNEY	BOX 458	15767 JS
1540	WABQ	OH CLEVELAND	8000 EUCLID AVE.	44103 JM-PA
1550	WDLR	OH DELAWARE	501 BONTOWN RD.	43015 JS
1550	WHNN	GA VIENNA	HIGHWAY 41 NORTH	31092 JM-PA
1550	KNTR	WA FERNDALE	BOX 308	0A-SW
1550	WJIL	IL JACKSONVILLE	BOX 1065	62651 WP-IL
1560	KPHS	LA CROWLEY	BOX 1469	70527 WP-IL
1570	WBUX	PA DOYLESTOWN	BOX 512	18901 JS
1570	CHUB	BC NANAIMO	22 ESPLANADE	V9R 4Y7 0A-SW
1580	WHFX	PA COLUMBIA	BOX 270	17512 JS
1580	CBJ	PQ CHICOUTIMI		G7H 5E7 0A-SW
1590	KJET	WA SEATTLE	200 W.MERCER ST.-SUITE 304	98119 0A-SW
1600	WJSA	PA JERSEY SHORE	262 ALLEGHENY ST.	17740 JS
1600	WPDC	PA ELIZABETHTOWN	BOX 408	17022 JS
1600	WTF	OH TIFFIN	BOX 338	44883 JS

***** CONTRIBUTORS *****

GH-KS	GARY HOUDEK, MUNDEN KS	RW-IL	ROGER WINSOR, CHAMPAIGN IL
WP-IL	WILLIAM PRATER, SPRINGFIELD IL	0A-SW	OLLE ALM, HARNOSAND SWEDEN
NZ-NE	NEIL ZANK, NE	JM-PA	JOHN MALICKY, PITTSBURGH PA
JS-OH	YOURS TRULY, YOUNGSTOWN OH		

Now that it's Summer!!

Now is the time to start to work on your Antennas and in your Shack.

Time now to get the necessary books and such from:

NRC Publication Center
Post Office Box 164
Hannsville, NY 13661

DOMESTIC DX DIGEST

Dave Schmidt, 42 Chelwynne Road, Castle Hills, New Castle, DE 19720

Here is the NRC column which matches the excitement of leftovers! When sending your contributions in, please type or neatly write, one side of the paper, skip a line between items, EDT, et al. Without further ado:

SPECIAL

- 960 WHYL PA CARLISLE - 5/1 Station off the air due to fire destroying transmitter building. (RKjr-PA) 5/27 1400 station noted back on, slightly weaker than before but still good. (DS-DE)
- 1180 WSAP GA TRION - 5/19 0600 w/long, full data s/on, fair in fade of WHAM. (JJR)
- 1190 KPZE CA ANAHEIM - 'The all new K-Praise' w/religion, also ID's as 'The Praise of 1190' ID, ex-KEYZ. (DS-CA)
- 1380 WAVI NH PORTSMOUTH - 5/21 noted w/new calls, ex-WBBX. (STAN-MA)
- KSMJ CA SACRAMENTO - 4/23 2039 w/jingle/ID, rock music, one minute 'Info. Net' news, mostly o/KTOM/KEEN-1370 splash, ex-KGMS. (DKK-CA)
- KBAE WA EVERETT - 4/7 2144 w/rock music, ID as 'The All New Magic 1380', fair signal, ex-KRKO. (EB-OR)
- 1410 WSCW WV S CHARLESTON - 5/21 0600 atop w/s/on w/mention of 5000 watts, CP is now on. (SP-TN)
- 1570 WMYM WI MINOCQUA-WOODRUFF - 5/19 2132 good w/s/off, Non ID'er as '1570 AM', suggested tuning '96 FM' in s/off, MoR format, ex-WFBZ. (JJR-WI)
- 1580 WSRR NJ WASHINGTON - 4/24 1840-1845 w/old standards, Star Radio slogan, full data s/off w/no SSB. Again 4/25 0627-0710 w/similar music, UPI news, sports, weather, PSA's, ads, ex-WCRV. (KG-PA)
- WEAM GA COLUMBUS - 4/22 0001-0008 good w/NBC news, full data s/off w/Lords Prayer, again 5/2 0001-0130 good w/recorded religion, gospel songs, local ad. Ex-WI2Y since 4/1. (KG-PA)
- 1600 KEED OR EUGENE - 4/7 1106 good o/KOHI w/ID, CW music, ex-KASH. (EB-OR)

DX TESTS

- 1030 KCTA TX CORPUS CHRISTI - 4/15 0507 DX Test not heard, just WBZ in clear. (MS)

FREQUENCY CHECK

- 1520 WCHE PA WEST CHESTER - 5/20 0038 likely the one w/TT, ID 0038, noted TT again 0122 w/ID 0123, partially copied. (RUGG-PQ) Yeah, that was us! (DS)
- 1590 WPTH VA RICHMOND - 5/20 0047-0108 symphony music, ID at end and list given of selections played. (RUGG-PQ)

MIDDAY - MIDNITE

- 540 WLIX NY ISLIP - 4/15 1708 xint w/gospel music program, UPI news, ID. (PO-NH)
- CJSB ON OTTAWA - 4/13 2255 poor/fair u/CBEF w/MYL type music, ID, news. (MS-ON)
- 550 CPNB NB FREDERICTON - 4/13 2322 good w/ad, weather, ID, CW music. (PO-NH)
- WKRC OH CINCINNATI - 4/14 2130 poor u/WGR w/ID. (MS-ON)
- 560 WGAN ME PORTLAND - 4/15 1753 poor u/WHYN w/ID, weather. (PO-NH)
- 600 WPST ME CARIBOU - 3/28 1759 o/WICC w/CW music, ID, news. (PO-NH)
- 620 WZON ME BANGOR - 4/15 1813 weak w/ads, contest promo, ID. (PO-NH)
- 710 CKVM PQ VILLE MARIE - 4/13 2355 tentative w/French talk, Radio Canada ID, pop music, equal w/CBE-690, way u/local CJRN. (MS-ON) They w/CJRN now make WOR unlistenable here at nite, never like that last year! (DS)
- 750 WPDV WV CLARKSBURG - 4/14 1830-1842 CW music, many ID's. (PW-PA)
- 780 WABS VA ARLINGTON - 3/28 1808 tentative w/gospel ads and program, many mentions of Arlington but no ID heard, poor thru many others. (PO-NH)
- 810 CJVA NB CARAQUET - 5/20 2250-2308 way o/WGY w/no trouble from CJAD-800 w/long sportscast, Radio Mutuel news and s/off (RUGG-PQ)
- 870 KUUY WY ORCHARD VALLEY - 5/9 2200 way u/WML w/ID into CBS news. (JK-MD) Nice catch, Joe, furthest E on this cat so far! (DS)
- WHCU NY ITHACA - 4/15 1818 thru noise w/sports, ID, music. (PO-NH)
- 900 WFLN PA PHILADELPHIA - 4/20 1830 good w/full data s/off, no SSB. (PO-NH)
- 930 KHJ CA LOS ANGELES - 4/9 2254 poor/fair w/Car Radio ID, contest promo, Lakers Basketball, o/KAGI. (EB-MO)
- 970 WESO MA SOUTHBRIDGE - 4/20 1845 nice w/full data s/off w/SSB. (PO-NH)
- 980 CKWV BC NEW WESTMINSTER - 4/9 2302 fair/good w/KYTE-970 splash w/news, ID as 'News 98', pop music o/KPMB. (EB-OR)
- 1240 KPLY OR CORVALLIS - 4/7 2111 poor w/severe KRDR-1230 splash w/pop music, ID, faded to KOEN. (EB-OR)
- 1290 KBSL CA CHICO - 4/9 2316 fair/poor in KLIQ null w/CW music, ads. (EB-OR)

1570 CPOR

- 1310 CKOY ON OTTAWA - 3/28 2253 fair w/news, weather, ID. (MS-ON)
- KIOT CA BARSTOW - 4/26 2115 assumed to be this one w/s/off, mention of Barstow and 5000 watts, a CA corp., etc., calls given numerous times but they didn't sound like KIOT. (DKK-CA) They were WMOT. (DS)
- KCRE CA CRESCENT CITY - 5/2 2310-2330 great w/MoR til s/off. (DKK-CA)
- KTKR CA TAFT - 4/19 2100 nicely atop ending news, ID and into s/off, 45 minutes ahead of time, s/off w/SSB, to return 0600. (DKK-CA)
- 1330 WDLW MA WALTHAM - 4/15 1835 fair w/WNYM w/CW music, ID. (PO-NH)
- WEAW IL EVANSTON - 5/14 2100 poor u/WHBL w/ID, my closest unheard. (JJR-WI)
- 1350 WINY CT PUTNAM - 4/15 1740 briefly noted w/MoR music, ID, then quickly faded down. (PO-NH)
- WNRS NH LACONIA - 4/15 1742 thru mess w/ID. (PO-NH)
- 1380 CKIC ON KINGSTON - 4/19 2229 fair u/CKPC w/rock music, ID, News. (MS-ON)
- 1400 WOND NJ PLEASANTVILLE - 4/21 1932-1935 ID for Radio 14, ID, promo for the 'Oldies show', lost to WSTL/others. (TP-CT)
- 1420 WHK OH CLEVELAND - 4/13 2337 poor w/others/noise w/oldies, ID as 14 K. (PO-NH)
- WASR NH WOLFBORO - 4/9 1825 weather for Lakes Region, ID, short s/off. (TP-CT)
- 1450 WILM DE WILMINGTON - 4/21 1822-1833 item from Wilmington Parks & Recreation Dept., News Radio ID, CBS item. (TP-CT)
- 1460 WEWO NC LAURINBURG - 4/21 1900-1930 alone w/CW music, NC Network News, substituted ads. (KG-PA)
- 1470 WJDY MD SALISBURY - 4/21 1835-1845 B/Sol music, full data s/off. (TP-CT) As much as you hear this station, I think your summer cottage is one of their tower houses! (DS)
- WTRR MD WESTMINSTER - 4/17 1907-1912 weather into nostalgia program, lost to others. (TP-CT)
- CHOW ON WELAND - 4/17 1915 ID, CW music, lost to others. (TP-CT)
- WSAN PA ALLENTOWN - 4/20 1821 tentative w/many Lehigh Valley mentions, no ID heard, poor signal. (PO-NH)
- 1520 WCCS PA HOMER CITY - 5/11 2021-2030 fair in WKBS null w/clustered ads, MoR music, stereo ID, s/off w/no SSB, mentions 0600 s/on. (KG-PA)
- 1530 WDJZ CT BRIDGEPORT - 5/11 2000 good w/s/off w/SSB. (BC-NH)
- 1550 WMLB CT W HARTFORD - 5/11 2003 good after WMTN s/off w/CW version of 'God Bless America', ID'ed as W Hartford, no mention of Bloomfield as listed in log. (BC-NH)
- UNID 5/11 2008 w/STD/MYL type music, quick s/off 2015, most likely WCHU but to weak to pull out definite ID. (BC-NH)
- 1580 WCRV NJ WASHINGTON - 3/31 1800 good w/s/off requesting comments on programming. (MS-ON)
- 1600 WRRL NY NEW YORK - 3/22 2332 ID noted thru hash. (PO-NH) Hash makes your radio a mess, especially the corn-beef type. (DS)

MIDNITE - MIDDAY

- 550 WDEV VT WATERBURY - 4/19 0510 good w/CW music, program notes. (TP-CT)
- 590 KCSJ CO PUEBLO - 4/20 0329 w/ID during break in Larry King, into news, just beat nearby KTHO. (DKK-CA) Beat what? I just type them, can't explain them or want to try to sometimes-hi! (DS)
- 770 WYRV VA CEDAR BLUFF - 4/17 0600 weak but mostly alone w/s/on, no SSB, covered by WLWL/WAIS s/on's. (SP-TN)
- 850 WREF CT RIDGEFIELD - 4/27 0600-0643 good in WEEU's null w/full data s/on w/SSB into local news, weather, old standard music. (KG-PA)
- 860 CBH NS HALIFAX - 4/12 0520 almost local w/nothing from CJBC, weather info, interview w/local artist. (TP-CT)
- 960 *WELI CT NEW HAVEN - 5/20 0230-0233 w/TT, music, ID for ET, way o/WPIR and UNID Canadian. (RUGG-PQ)
- 1060 KGFV SD PIERRE - 4/1 0725-0730 ID atop during regional/local news. (DKK-CA)
- 1110 WUNN MI MASON - 5/14 0630 poor w/s/on u/KPAB. (JJR-WI)
- 1150 WMTG MD GAITHERSBURG - 4/27 0550-0558 good in WDEL's null w/50-70's rock oldies, weather, ads, ID's as 'Montgomery County's Radio Station, AM 1150'. (KG-PA)
- WNDB FL DAYTONA BEACH - 5/2 0548-0555 o/all w/oldies, contest anc't, programming promo. (KG-PA)
- 1270 WORL FL ORLANDO - 4/22 0102-0224 mostly in clear w/pop/disco music, anc't of 'ORLANDO is my favorite' contest. (KG-PA) Yes, they'll be my favorite when they verify my report from 3 years ago-hi! (DS)
- 1280 WPXY NY ROCHESTER - 4/9 0531 rock music, ID for AM 1280 Stereo/98 PXY, gone to unusual WADO. (TP-CT)
- 1300 WFBZ MD BALTIMORE - 3/24 0000 in poorly w/ID, NBC news. (PO-NH)
- KHUG OR PHOENIX - 4/22 0258 atop w/ID into s/off, no SSB. long sought now a pest, heard everytime I've checked! Must have something to do w/Krejny's visit here. (DKK-CA) If that was the case, you'd still be looking for them! (DS)
- 1310 KNPT OR NEWPORT - 4/25 0305 atop, xint w/rock music. (DKK-CA)

- 1420 WACK NY NEWARK - 4/8 0546 briefly atop w/ID, rock music, verie notes 5000/500 CP is now on. Report is furthest E rec'd. (TF-CT)
- 1480 WIOS MI TAWAS CITY-E TAWAS - 5/13 0607 poor, alone o/mess w/weather, ID. (JJR)
- 1580 WLIM NY PATCHOGUE - 4/29, 4/30 0540-0550 strong w/oldies, sports news on reg. sked., forgetting that DST pushed legal s/on back to 0615. (KG-PA)
- *WJIK NC CAMP LEJEUNE - 5/12 0115-0130+ very strong on ET w/gospel music, some TT and ID's. (KG-PA)
- 1590 WGGO NY SALAMANCA - 4/20 0559 in the clear w/s/on. (MS-ON)

PIRATES

- 1610 UNID 5/13 0100 same male voice w/repeating weather for Chicagoland, mention of 'member of the ----- Radio Network', very weak u/WXT613. Any help C-town members? (JS-OH)
- 1619 Radio North Coast International - 5/18 2304-2329 program of unusual music hosted by 'Captain Willie', fair w/little fading, MN address given w/request for reports. (JS-OH)
- 1619 Radio North Coast International - 5/5 0010 many ID's and MN address given, switched to 1619 at 0015, a little weak. Said was broadcasting from the S S Sphincter somewhere on the Great Lakes. Was looking for KPF-941. (DT-KY)
- 1622 WKUE 5/19 0008-0030 'The Greatest Hits of All Time', rock oldies from 60's w/Mr Coffee as the DJ, loud here w/xint modulation, think this guy is up in the shortwave bands also. (JS-OH)...Per Starr tip, noted fair w/same, slight fading. (DS-DE)

RANDUMBS

Nice turnout for this time, thnaks to all for their support. 234 CLARENDON ST. - BOSTON, MA 02116

DKK notes that KFYI-1310 has gone broke and is now off the air.

The new Broadcasting Yearbook notes that Herndon, VA-1440 is alive again but in passing thru that area in April, nothing was noted. Can anyone check further?

For you FM freaks, I was recently involved in the return of an educational FM station which was silent for 5 years. The license was still valid, the freq. was changed from 88.7 to 97.3 (to maintain the 10 watt output), the sight was moved 10+ miles and WZEE made a return 5/22 in Glen Mills, PA.

STATICBUSTERS

FW-PA/Frank Wheeler, Erie, PA
 TF-CT/Tony Fitzherbert, Fairfield, CT/ICFS5W
 PO-NH/Patrick O'Connor, Hinsdale, NH/FRG7, LW
 MS-ON/Morris Sorenson, Milton, ON/DX302, TRF, Loops
 DS-CA/Dan Sheedy, Encinitas, CA
 EB-OR/Eric Bueneman, Gresham, OR/Superadio II
 JK-MD/Joe Kureth, Uniontown, MD/DX300, LW
 DKK-CA/Don Kaskey, San Francisco, CA/HQ140X, SM2
 RKjr-PA/Robert Kleinger, Harrisburg, PA
 BC-NH/Bruce Conti, New Ipswich, NH/R70, Loop, LW
 DT-KY/Dick Truax, Louisville, KY/R390A, Loop
 JS-OH/Jerry Starr, Hubbard, OH/HQ180A, Loop
 SF-TN/Steve Francis, Alcoa, TN/TRF
 RUGG-PO/Andy Rugg, Nuns Island, PQ/TRF
 STAN-MA/Stan Morss, Bradford, MA/HQ180
 JUR-WI/John Reiger, W. Allis, WI/ICR70, R1000, Kolwalski Loop, RP2900, R West Loop
 DS-DE/Dave Schmidt, New Castle, DE/ HQ180A, HQ180AX, SM2, LW, Superadio

And it was good to see Ron Musco here 5/18 & 19. That's it for a couple of weeks, have a safe summer!

73's - Good DX!

JJE



St. Albert Broadcasting Ltd.
 8610 McKenny Avenue, St. Albert, Alberta T8N 2T7

FORMATS

Tony Fitzherbert, 356 Jackman Avenue, Fairfield, CT 06430

11

Well, once again we have enough material on hand for a good sized formats column. Again, we lose some, and we gain some. Out in Washington State, several stations have gone silent, and here in Fairfield County, we have lost WNAB due to financial problems, and gain WREF-850, a delightful little station. This column comes with the efforts of Jerry Starr (S), Pete Nolan(N), and the editor(F), who adds some finds from good spring DX. Here goes.....

- 550 WDEV VT Waterbury - CWM.(F).
- 590 KFXM CA San Bernadino - Drops CHR for Adult Standards(N).
- 600 WFST ME Caribou - Back on the air w/ SMN CWM(N).
- 630 KGRW GA Opportunity - Ex-rock oldies, now is silent(N).
- 680 WCNN GA North Atlanta - Drops all-NX for all-TK(N).
- 700 KRMW CO Silt - BBD, to be on the air in Summer'85(S).
- 720 WXXY GA Hogansville - Black programming, GOS(S).
- 740 WPRX WI Hudson - MOR(S).
- 840 WHEY AL Mobile - Ex-WWAX, is CWM.(N).
- WNVY FL Scottsmore - REL(S).
- 850 WREF CT Ridgefield - On the air on 3-15, delightful mix of BBD and NOS. ID's as "The Reference" and "AM-85" and "Where the real music went."(F).
- 880 KDXA TX Lovelock - MOR, air date is Summer'85(S).
- 900 WFLN PA Philadelphia - Plans to drop GLA, simulcast for TLK(F).
- 930 WSLI MS Jackson - Drops Ad. Con. for NX/TLK(N).
- 1050 KSPO WA Dishman - New station, REL(N).
- 1100 WUBS IL Harrisburg - OLD(S).
- WQDQ TN Thompson Station - Variety(S).
- 1130 WCBX NC Eden - New Station, REL.(N).
- 1150 WMEX MA Boston - Rock oldies...20 years ago this call was for 1510"Color Radio, Wimex", an ethnic station which gambled w/ rock, and won the ratings war for years(F).
- WTWZ MS Clinton - REL(S).
- 1170 KDLP LA Bayou Vista - Ad. Con. (S)
- WKPE MA Orleans - Ex-WVLC, now simulcasts w/ WKPE-FM.(N).
- 1250 KDHI CA Twenty-Nine Palms - Now CWM(N).
- 1260 WZBO NC Eden - Stopped simulcast w/ 2-102 FM, now REL(N).
- 1290 WAGE VA Leesburg - Drops CWM for Ad. Con(N).
- 1300 KGHX AK Fairbanks - Silent, pending sale(N).
- 1310 WJOZ PA Troy - Ad. Con., CWM(S).
- 1320 WGLD NC Greensboro - Ex-WCOG w/ Rock oldies, now EZL(N).
- 1360 KAMT WA Tacoma - AOR, OLD, VAR(N).
- 1370 WGNW WI Sussex - Ex-NX/TLK, is silent(N).
- 1380 KBAE WA Everett - Ex-KrKO, is Ad. Con.(N).
- KCKO WA Millwood - Ex-REL, is silent(N).
- 1400 WLNJ MI Elmwood Township - REL(S).
- KITZ WA Tacoma - Ex- KINT, still silent(N).
- 1430 WKSD FL Panama City - Ex-WWQ (3WQ), CWM, now adult standards.(N).
- 1450 WNAB CT Bridgeport - Silent, pending sale to owner of FM station in Long Branch, NJ(F).
- 1470 WTRR MD Westminster - BBD(F).
- 1510 KAGY LA Port Sulpher - Drops CWM for REL(N).
- KKZU WA Mountlake Terrace - Ex-"Zoo", CHR, is silent. (N).
- 1520 WCMG TN Lawrenceburg - Ad. Con(S).
- 1560 KBRL NE Imperial - BFL, Farm news, REL(S).
- 1570 KCVR CA Lodi - Drops Spanish for REL(N).
- 1590 WACY KY Gray - REL, new station)S).
- WFJT KY Inez - Drops CWM for REL(S).

And that is it for this time. Soon the spring book will be out, and, as usual, anticipate more changes. Please do send them in to the Formats Column.....everyone will be most interested to hear when WMAQ-670 becomes "Radio Bombina" for America's heartland, with an all-Spanish format. Have a good summer...and I hope to see you at the convention!!

73's.

JJE



464 YONGE ST.
 TORONTO, ONT.

Craig Healy, 66 Cove Street, Pawtucket, RI 02861

1600-1800 KHz Range Times are GMT Deadline: Last Sat. of Month

May 1985...Loggings:

- 1610 WASHINGTON Port Townsend 0003 3/24 TIS station fair o/u Olympia, WA TIS w/ cont. loop message by man w/ a "twang" in his voice. Noted on early skip. Call seemed to be KNHC (or KNEZ)262. (Portzer)
1613 GUATEMALA Rabinal 0736 3/3 RAB fair. (Ross)
1620 ??? 0728 3/3 KA83316 at 4 min intervals. (Ross)
1621 ??? 0725 3/3 UBT fair. (Ross)
1622 NEW YORK Yonkers 0010-0021 3/14 KPF-941 poor-fair w/ folk mx, IDs. Male announcer, address at s-off. (Ross)
1670 ??? 1233 3/24 Unid weak station in JJ speaking slowly and distinctly. Seemed to say "...Okinawa Ohuru Sayonara." at end. Carrier cut @1235. (The Okinawa is definite. The last two words are phonetic approximations.) A few seconds later a much weaker carrier came on. Tuned out, then came back @1242 and hrd woman in JJ weak-fair. She sounded like she was reading a report. Both stations used AM modulation. Possibly marine WX BC stations in Japan? (Portzer)
1675 ??? 1239 3/24 Unid SSB xmsns in what sounded like JJ. Never quite got then tuned in. Speech patterns typical of 2-way radio. (Portzer)
1685 COLOMBIA Mercaderes 0743 3/3 MER good. (Ross)
1700 TAIWAN 1315 3/24 Keelung Fisheries Station tentative w/ woman in CC weak under carrier. (Portzer)
1700 ??? 1353 3/24 Unid code, about 15 wpm, strong over Taiwan. S-off w/ call sign KQSV. (Portzer)

Credits:

Bruce Portzer Kalaloch, WA FRG-7, 70' 1w
Robert Ross London, ON TS430S, 4' loop

Rob Gerardi sends a few beacons just into the 160m ham band. Might be handy as propagation pointers:
1805 OA36, Peru, 1830 DHJ Germany, 1831 OSN Belgium, 1834 TL31 Central African Republic, 1834 NITON RADIO France (in USB), 1837 ZA01 Albania, 1837 OY12 Faeroe Islands, 1865.5 MPG England, 1870 JD18 Japan.
I get some of these from time to time and will list them as space permits. I don't want to expand coverage above 1800, but this might be helpful.

Geir Stokkeland of Norway sent a nice letter and lists some Norwegian stations:
1722 LGA Alesund
1722 LGI Hammerfest
1722 ... Jan Mayen
1729 LGV Vardo
1736 and 1694 LGS Svalbard (Spitsbergen)
1758 ... Bear Island

He also mentions Wick Radio, GKR on 1615 in Scotland is heard occasionally.

Geoff Halligey mentions in his "European Newsletter" column in LWCA's "LOWDOWN" that Rogaland Radio (LGB) Norway uses both 1644 and 1646 kHz. These are TOR (teletype) channels and are paired with 3148 and 3147 kHz respectively. These channels are used for communications with Norway's North Sea oil fields and will not be published for general marine use.

How about a few loggings from the folks in the Southern Hemisphere to help us along the next few months?? 'Til later.

Taft hires agent to sell five radio stations

Cincinnati-based Taft Broadcasting Co. has hired First Boston Corp. as first agent for sale of its radio stations, it was announced yesterday.
The stations are being sold to comply with Federal Communications Commission regulations that prohibit one company from owning television and radio properties in the same market.
On Feb. 4, Taft agreed to acquire substantially all of the broadcast properties of Gulf Broadcast Co. That acquisition would result in Taft's cross-ownership of television and radio stations in four markets.
The properties to be sold are three Gulf radio stations in Dallas, Houston and Washington, and Taft's AM and FM stations in Tampa-St. Petersburg, Fla.
Taft is a communications and entertainment company involved primarily in commercial television and radio broadcasting, in the production of animated and live-action programming for television and in the distribution of programs for over-the-air television, cable TV and home videotape.

Craig Healy, 66 Cove Street, Pawtucket, RI 02861

1600-1800 KHz Range Times are GMT Deadline: Last Sat. of Month

June 1985...Loggings:

- 1609.8 CALIFORNIA Point Reyes Nat'l Seashore TIS station. New station this winter. Very weak, no trace at 20 miles. Poor modulation w/ long gaps. No call noted. (Remington)
1609.8 CALIFORNIA Los Altos Hills 0130 2/17 Foothill College TIS also new. Faded up nicely one sunset at 50 mile distance. Gives parking info, etc. w/ a woman anncr. Fair signals at best. Tape loop cycle is 48.58 secs. w/ 4 sec gap at end. (Remington)
1613 GUATEMALA Rabinal 1035 3/5 RAB weak, fadey. Ident frequency is exactly 1614.01 kHz. (Remington)
1617 ??? 0444 5/26 Cubic Argo, fair. (Healy)
1620 ??? 1000 4/23 UBT Incredibly weak, fadey. Ident frequency is 1621.02 kHz, strongly implying the carrier should be on 1620. Keying repetition rate is 7.585 seconds and no DAID. (Remington)
1622 NEW YORK Yonkers 0340 4/10 KPF941 Very weak w/ folk music and a male announcer. (Ross)
1625 ECUADOR Pastaza 0850 3/5 PAT weak, fadey. Rep. cycle is about 8 seconds. Ident frequency is 1625.98. No DAID. (Remington)
1649 ??? 0443 5/26 Cubic Argo, good. (Healy)
1665 ECUADOR Lago Agrio 0950 3/5 LAG fair, w/ fades. Rep. rate is 8.162 sec., no DAID. Ident freq.: 1666.13 kHz. (Remington)
1682 ??? 0441 5/26 Cubic Argo, good. (Healy)
1685 COLOMBIA Mercaderes 0808 3/5 MER Fadey, loud at times. Rep. rate: 5.089 seconds. No DAID. Ident freq.: 1686.14 kHz. (Remington)
1685 -same- 0430 4/9 MER Very good. (Ross)
1699 ??? 0435, 0439 5/26 KA84112 poor. (Healy)
1709.5 ??? 0434 5/26 Decca HiFix, very good. (Healy)
1714 ??? 0433 5/26 Cubic Argo, fair. (Healy)
1716 ??? 0433 5/26 Cubic Argo, fair. (Healy)
1728.5 ??? 0432 5/26 Cubic Argo, good. This one sounds like "s" in cw. (Healy)
1746 ??? 0431 5/26 Decca HiFix, good. (Healy)
1747 ??? 0431 5/26 Decca HiFix, good. (Healy)
1762.5 ??? 0430 5/26 Cubic Argo, good. (Healy)
1767.5 ??? 0430 5/26 Cubic Argo, poor. (Healy)
1782 ??? 0428 5/26 Both long and short 30 pip/minute stations, good. (Healy)

DAID means dash after ID.

Credits:

Sheldon Remington Fairfax, CA Kenwood TS430S w/ filters, three 500' Lws.
Robert Ross London, ON Kenwood TS430S, 4' loop, dipole.
me Pawtucket, RI Drake R7A, 25' vertical.

Apparently the Kenwood is a popular rig. Anyone else using one? 'Til later...

A win for First Amendment; a break for daytimers

The First Amendment is alive and well at the FCC. The commission made that perfectly clear last week. It did designate the renewal application of WACS-TV (formerly WTTU-TV) Dodge City, Kan. for comparative hearing with the competing application of Community Service Broadcasting Inc. But in so doing, it refused to designate programming issues against the station, which had broadcast attacks on Jews, blacks and other minorities.
On another tack, the FCC amended its rules to permit full-time operations on the 14 Canadian, Mexican and Bahamian AM clear channels. Under the commission's order, the 519 AM daytimers operating on those channels will be permitted to operate at night with up to 500 watts. The FCC hopes to be able to notify the daytimers on the Canadian clears of their nighttime power authorizations by the end of the summer (agreement with Canada has already been reached). AM daytimers operating on the Bahamian and Mexican clears will have to wait until negotiations are completed with those countries.
Not only did a competitor file on top of WACS, owned by Nellie and Charles Babbs. But a variety of others, including the National Black Media Coalition, the Anti-Delamation League of B'nai B'rith and the Kansas attorney general, had filed petitions to deny and informal objections to the station's renewal. Chiefly at issue were the station's broadcasts of the taped remarks of two men who were described as paramilitary evangelists associated with a group called the Posse Comitatus (BROADCASTING, May 30, 1983).
In refusing to designate programming issues, the FCC cited the First Amendment and Section 326 of the Communications Act, which the commission said prohibited it from the censoring of broadcast material or interfering with the licensee's discretion in selecting and broadcasting particular programming. "Unless speech, no matter how abhorrent, creates a clear and present danger of serious evil that rises far above the public inconvenience, annoyance or unrest, or is aired in violation of the Communications Act or [the FCC's] regulations, [the FCC] will not punish licenses for airing it," the FCC said in a press release.
With Chairman Mark Fowler dissenting on this point, the commission, in addition, designated an issue on whether the licensee violated commission regulations requiring the maintenance of issues/programs lists. Although some sort of issues/program list was apparently filed with the commission, that was said to have been "incomprehensible." Commissioners Henry Rivera and Dennis Patrick both said they were reserving their votes on whether an issue should be designated to determine whether the licensee had met the nonentertainment needs of the community.
According to Jonathan David, an attorney for the Mass Media Bureau, the night-time power authorizations for AM daytimers on the foreign clear channels should amount to about the same, or something less, than the post-sunset authorizations AM daytimers already have received. The daytimers won't have to apply; the FCC will notify them of their power authorizations. But before beginning operations, the licensee will have to provide "limited" engineering data indicating their intentions.
Those daytimers on the Canadian clears (except 540 kHz, which is also a Mexican clear channel) could receive word of their power authorizations by the end of summer. Authorization for those operating on the Bahamian and Mexican clear channels will be delayed until negotiations are completed with those countries. The next negotiating session with Mexico has been set for early July "and we hope to make a lot of progress on the substantive issues," David said.
The FCC said it also will provide an opportunity for new stations on these channels, also with a maximum power of 500 watts. The best guess is that there will be room for about 40 newcomers.

SPORTS NETWORKS

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

Here are four more baseball networks.

Milwaukee Brewers 1985 Pat Hughes^a, Bob Uecker

550 WSAU-WI	980 WPRE-WI	1260 WMSI-WI	1400 WJJK-WI	1550 WMIR-WI	96.7 WSEY-WI
570 WMAN-WI	1090 WISS-WI	1270 WRJC-WI	1430 WRDB-WI	1580 MEVR-WI	99.1 WSSU-WI
580 WKTY-WI	1230 WHBY-WI	1290 WCOB-WI	1430 WBEV-WI	1580 WTTN-WI	99.9 WJVL-WI
590 WJMS-MI	1230 WCLD-WI	1310 WIBA-WI	1430 WRDN-WI	1590 WTOQ-WI	100.1 WDDC-WI
620 WTHJ-WI	1230 WIKB-MI	1320 WFHR-WI	1440 WNFL-WI		102.3 WHTL-WI
680 WDNB-MI	1240 WDMT-WI	1330 WRBL-WI	1450 KFIZ-WI	92.1 WRLS-WI	105.3 WRLO-WI
910 WDOH-WI	1240 WQBT-WI	1340 WLDY-WI	1450 WDLB-WI	93.5 WFBK-WI	
960 WTCR-WI	1240 WJMC-WI	1380 WBEL-IL	1490 WRCO-WI	93.5 WNBK-WI	
980 WNBI-WI	1240 WJPD-MI	1400 WATW-WI	1490 WIGM-WI	95.9 WMMH-WI	

Baltimore Orioles 1985^c Jon Miller, Tom Marr

580 WTSB-NC	1230 WFVA-VA	1330 WASA-MD	1450 WTBO-MD	1590 WCBG-PA	101.5 WFVA-VA
610 WIOD-FL ^d	1240 WKDX-WV	1340 WHAP-VA	1450 WTHU-MD	1600 WETT-MD	101.7 WKWI-MD
870 WFLO-VA	1240 WSSV-VA	1340 WJMA-VA	1450 WILM-DE	1600 WPDC-PA	103.7 WHDG-VA
920 WPTX-MD	1240 WCEM-MD	1340 WPEM-WV	1490 WLPB-PA		106.3 WREL-VA
930 WFMD-MD	1270 WLBR-PA	1350 WOKY-PA	1490 WARK-MD	93.5 WCST-WV	106.3 WREL-VA
960 WSBY-MD	1280 WHVR-PA	1390 WEED-NC	1490 WSTP-NC	94.3 WQRA-WV	106.3 WREL-VA
970 WVOV-VA	1290 WHKY-NC	1400 WKEW-NC	1500 WTOP-DC	95.7 WFLO-VA	106.3 WREL-VA
970 WANV-VA	1300 WFBR-MD	1410 WOOV-DE	1520 WKRE-VA	96.7 WJMA-VA	106.3 WREL-VA
1000 WIOD-PA	1320 WAGY-NC	1420 WDDY-VA	1550 WXVA-WV	98.3 WXVA-WV	106.3 WREL-VA
1010 WCST-WV	1320 WRJY-VA	1430 WNAV-MD		100.7 WTRR-MD	106.3 WREL-VA

Montreal Expos 1985 French

550 CHLN-PQ	710 CKVM-PQ	1230 CJLP-PQ	1320 CJSO-PQ	1350 CHAL-PQ	1450 CHEF-PQ
560 CKCN-PQ	730 CKAC-PQ	1240 CJAF-PQ	1330 CKLD-PQ	1380 CFDA-PQ	1450 CHEF-PQ
570 CJEM-NB	900 CKVD-PQ	1240 CJHD-PQ	1340 CHAD-PQ	1380 CHLR-NB	1450 CHEF-PQ
610 CKML-PQ	970 CKCH-PQ	1240 CKLS-PQ	1340 CJAN-PQ	1400 CKFL-PQ	1490 CKLR-PQ
630 CHNC-PQ	1000 CFLP-PQ	1240 CFLM-PQ	1340 CFED-PQ	1400 CKRN-PQ	1490 CKLR-PQ
630 CHLT-PQ	1150 CFHM-PQ	1280 CKCV-PQ	1420 CKMT-PQ	1420 CKMT-PQ	1490 CKLR-PQ
710 CIPC-PQ	1220 CFVH-PQ	1310 CHGB-PQ	1420 CKVT-PQ		

Montreal Expos 1985 English

600 CFCF-PQ	1340 CULS-NS	1450 WSN0-VT	93.1 CHLQ-PEI	105.3 CKBY-ON	
850 WCGY-FL	1350 CKAD-NS	1470 WPDH-NY	94.9 CKPE-NS		
960 CHNS-NS	1420 CKDY-NS	1490 CKEN-NS	100.9 CKTO-NS	shortwave CFCX-PQ 6005	
WEAV-NY	1450 CFAB-NS	WICY-NY	103.9 CFQM-NB		

Thanks to Andy Rugg and Joe Kureth for some of the above information. I await more contributions.

^aThis is a correction of a previous error.^bBrewers' list has old call WSW.^cBecause of differences in individual station formats, such as broadcast hours and other factors, stations on the network carry a varied schedule of games. Other stations will be added.^dWIOD is listed in the Orioles' pocket calendar, but is not listed on the "map" of stations.

Children's Radio Goes Shopping; Sets Sights On Owning 12 AMers

By JANET STILSON

The Children's Radio Network, which went on the air with its first affiliate, Jacksonville, Fla.'s WEXI-AM last December, is making plans to buy 12 AM radio stations in markets across the country. It made its first step in this direction last month with the purchase of WEXI, for \$450,000.

Network proxy William C. Oswalt, says he is in negotiations with stations in 13 markets, and in case those deals don't solidify, he's talking with other AMers in the same markets for possible affiliate pacts. While WEXI was funded fully

through bank loans, Oswalt will be forming limited partnerships with local investors for the other stations.

The network, which markets its mix of educational and entertainment programming for youngsters, for use in schools as well as homes, started airing on a second AM station April 1, KAAR-AM Portland, Ore., and debuts on KSUN-AM Phoenix May 18.

Oswalt says it will have 35 more affiliates by July in cities which include New Orleans, Boston, Sacramento, San Antonio, Milwaukee, San Bernardino, Spokane and Cin-

cinnati, though those deals are not yet firm.

"We're projecting that the Jacksonville station's revenue will increase 500% within the first year," says Oswalt. "In terms of the cost of operation, (Children's Radio Network programming) is much less than if affiliates program their own station."

The affiliate stations pay the network a fee, which varies according to market size, plus blurb time, also dependent on market reach.

The network is currently negotiating for station buys in Knoxville, Chicago, Washington, Miami,

Grand Rapids, Lansing and Evansville, Ind.

In addition to music aimed at preteen audience, the network programming features "Sesame Street" and Muppet characters as well as material from the Children's Television Workshop and Disneyland/Buena Vista Records. Its broadcast day runs from 6 a.m. to 9 p.m.

By Peter Brand

After two-year countdown, Radio Marti hits the airwaves¹⁵

VOA station begins AM broadcasts to Cuba; Castro government retaliates with jamming, suspends agreements

"Good morning, Cuba, you are listening to Radio Marti, on the air today. Now, Radio Marti. Radio Marti—for the right of all men to be free, and to receive information and disseminate it, to look for truth and hold it high among other people who respect it."

With those words (which probably lost something in translation from the Spanish), spoken by Cuban-born Moises Lopez in a studio at Radio Marti program headquarters in Washington, the Reagan administration's project for breaking what it says is the Castro government's monopoly on news and information in Cuba completed its troubled four-year journey from proposal to air, at 5:30 a.m., on May 20 (BROADCASTING, May 20).

The lead item dealt with Cuba's retaliation for the U.S.'s turning on Radio Marti—suspension of an immigration agreement under which 20,000 Cubans annually would have been permitted to enter the U.S. and 2,700 undesirable who arrived in the U.S. as part of the Mariel boat lift were to have been returned to Cuba. The agreement also provided for the Cuban government's release of 3,000 political prisoners and visits to Cuba of Cubans who had already entered the U.S.

Nevertheless, the happiness among the Cuban-American community in Florida—there are up to 500,000 Cuban Americans living in the state—appeared to outweigh any disappointment over the breakdown of the immigration agreement. A member of the faculty of Dade Community College, in Miami, Juan Clark, who has close ties to the Cuban-American community, said it was "willing to pay the price" of the suspension of the immigration agreement. Some regard inauguration of Radio Marti as a signal of a new era of confrontation between the United States and Cuba, "as Cuban-born Tomas Regalado, news director of WRICAM Miami, a Spanish-language station, said. "Cuban-Americans perceive Radio Marti as something of their own... as a more direct effort to oppose Castro." Paula Hawkins (R-Fla.), who had played a major role in securing Senate passage of the necessary legislation, said the Cuban-Americans among her constituents were "ecstatic." Hawkins herself, after waiting for the introductory "Buenos Dias, Cuba," since Congress completed action on the necessary legislation in October 1983, was "relieved and thrilled."

The reactions of most broadcasters in Florida, however, were of a different kind. The counsel for the Florida Association of Broadcasters and the South Florida Broadcasters Association described broadcasters in the state as "nervous." But, said Matthew Leibowitz, they are taking "a wait-and-see" attitude, as they sweat out the possibility of a "radio war" breaking out, with the Cuban government stepping up and expanding the interference Cuban stations have been causing U.S. AM outlets in the Southeastern U.S. for 15 years. Indeed, Cuban broadcasts are heard regularly in countries around the world—up to 275 hours of Cuban origin are received weekly in the U.S. and the Caribbean, on AM and shortwave frequencies. Hawkins said it is difficult "for people in central Florida to receive a local station on their car radios; they get Cuban stations."

And the Cuban government, in announcing the suspension of the immigration agreement, also said it was planning to "adopt additional measures relating to the communications between the U.S. and Cuba." As George Hyde, general manager of WJMA-AM Miami, a Spanish-language station that broadcasts anti-Communist material—and finds its signal jammed in Cuba as a result—said, "There isn't a general manager in the Southeastern United States who is not glued to his radio to see if there is an increase in interference or jamming."

But after the first four days of Radio Marti, Cuba's electronic response appeared to have been slight. A jamming tone was



Announcer Moises Lopez (behind glass) four minutes after start-up

heard in the Havana area on 1180 kHz, the frequency on which Radio Marti broadcasts with 50 kw, but not enough to overcome the signal, according to a State Department spokesman, who said his information was based on reports of listeners in Cuba, including department representatives at the American interests section in Havana. The FCC monitoring station in Fort Lauderdale, Fla., said the jamming was of the same degree that had long been experienced by the Voice of America station whose frequency and transmitter, on Marathon Key, Fla., Radio Marti now shares. The monitoring station also said there had been no change in the Cuban-caused interference problem.

(ABC's *Nightline*, on Monday [May 20], appeared to call into question the government reports regarding the seriousness of the jamming. In a piece devoted to Radio Marti, it offered a demonstration of what host Ted Koppel said was the effect jamming was having on Radio Marti: Nothing could be heard through the jamming signal. However, a *Nightline* staffer, Bob Jordan, when asked for details on the demonstration, checked with the engineers who had arranged it and later indicated the demonstration was not of a signal being jammed. He said ABC Radio in New York had been monitoring the 1180 kHz frequency, picked up the jamming signal coming north from Cuba and fed it into the broadcast live at about 11:45 p.m., some 45 minutes after Radio Marti had gone off the air for the day.)

"Fortunately," said Leibowitz, speaking of possible electronic retaliation, "it's been a nonevent."

Still, broadcasters—and not only those in Florida—have cause to pay attention to Cuban threats, even vague ones. Cuba is said to have two stations capable of operating with 500 kw—10 times the maximum permitted U.S. stations—and it has said it planned to operate such stations on 1040 kHz and 1160 kHz. On the night of Aug. 30, 1982, Cuban stations, in what was viewed as a warning, caused interference to U.S. outlets on six AM frequencies, including with WIS Moines, Iowa (1040 kHz), and KSL Salt Lake City (1160 kHz) (BROADCASTING, Sept. 6, 1982).

Perhaps with that experience in mind, White House spokesman Larry Speakes said that the Cubans "have the capability" of "extensive interference with commercial broadcasting."

Radio Marti is broadcasting 14 1/2 hours daily—from 5:30 a.m. to 1:30 p.m. and from 4:30 to 11 p.m.—seven days a week, not only on 1180 kHz from the transmitter in Marathon but also on one of two shortwave frequencies, from transmitters in Greenville, N.C. That combination is standard for the VOA in broadcasting Spanish-language programs in the area.

The administration has described Radio Marti's purpose as being to offer news of

Cuba that the Cuban government does not provide. "The least we can do is send the people [of Cuba] some truth," Hawkins said last week. And Regalado, the WHC news chief, expects Radio Marti to provide the kind of Cuba-oriented news that the VOA, in its concern with international events, would not cover. As an example, he cited a report last week of the deaths of Cuban military personnel in Nicaragua. But the early newscasts, at least, carried a number of items available from the VOA, as well as the Spanish-language stations in south Florida whose signals are heard clearly in parts of Cuba—Secretary of Commerce Malcolm Baldrige meeting with the Soviet minister of commerce in Moscow, the Pope's travels in Europe, and brush fires in Florida. However, Radio Marti supporters suggested the budget of Cuba-oriented news would increase as the station improved its sources of information on the island.

But as the station—named after Jose Marti, a hero of Cuba's war of independence from Spain—begins providing a programming mix of news (25%); public affairs, including VOA editorials, roundtable discussions, and sports news (35%); and features, entertainment, music and religious material (40%), the controversy that began when the Reagan administration first proposed a Cuban service, in 1981, continues.

Critics say that, in view of the VOA service and the broadcasts of the Spanish-language stations in Florida, there is no need for the U.S. to establish a surrogate station with programming that can only inflame U.S.-Cuban relations. *New York Times* columnist James Reston called Radio Marti the Reagan administration's "latest example of self-inflicted wounds, after the President's tour of the German cemetery." An aide to Representative Timothy Wirth (D-Colo.), chairman of the House Telecommunications Subcommittee, said that those, like Wirth, who opposed the Radio Marti concept on the ground its signal would be jammed and Cuba would retaliate by causing interference to American stations "have been proved right."

Thomas Rogers, senior counsel to the subcommittee, cited the *Nightline* report of jamming and "the major retaliation threatened by Cuba." Senator Tom Harkin (D-Iowa), a long-time opponent of Radio Marti, reflected the views of other critics in calling establishment of the station "a political payoff to the Cuban-American community in Miami that has supported the Republican party with money and votes." He is concerned that Radio Marti broadcasts will cause the Cubans to jam the frequency on which it—and the VOA station—operate, causing the loss of both.

The fear that Radio Marti would become an undisputed propaganda outlet under the control of rabid anti-Castro Cuban-Americans—a condition that was viewed as certain to lead to a "radio war" between Cuba and

the U.S.—persuaded Congress to force the administration to accept a station that would be a part of the VOA and subject to its standards of objectivity, accuracy and balance. Its director—and that position remains vacant—is to report to the director of the U.S. Information Agency, VOA's parent, and to the director of the VOA, as well.

But the legislation imposes a dual mandate on the new Cuban service that is unique and could prove difficult to honor: Gene Pell, VOA director-designate, said last week



USA Director Charles Wick and VOA director designate, Gene Pell

that "there will be a significant emphasis on Cuba news. . . . Because of the legislation, it [Radio Marti] has a dual role. It is a surrogate station and a VOA service. There is a need to report news of events in Cuba to Cuba." And that, he noted, "is not a regular part of the VOA mandate," which is to tell America's story to the world. State Department spokesman Bernard Kalb described the new service in similar terms—"a surrogate home service which has been designed to serve the Cuban people." As provided for in the legislation, he added, Radio Marti will "support the right of the people of Cuba to seek, receive and impart information and ideas through any media, regardless of frontiers, in accordance with the Declaration of Human Rights."

Reference to Radio Marti as a "surrogate station" has disturbed members of the Senate who played a role in forcing the administration to accept the compromise legislation that placed Radio Marti under the VOA. In a letter to USA Director Charles Wick in February 1984, four of those senators said there should be no doubt that Radio Marti is an integral part of VOA and not "anyone's home service or surrogate station." But last week there was no indication the administration would be challenged in its description of Radio Marti as a "surrogate station." An aide to Senator Edward Zorinsky (D-Neb.), a leader in the fight for the compromise legislation and one of the signers of the letter to Wick, said, "the appropriate staff people are reviewing the matter, but we don't know what we'll do about it at this point."

Radio Marti, for which the administration has requested \$11.2 million for fiscal 1986, began operating with 127 employees, some 60 fewer than its authorized strength. But Pell felt the organization was ready. "We had two full months of simulated broadcasts of 14½-hour days, so we were prepared to go," he said.

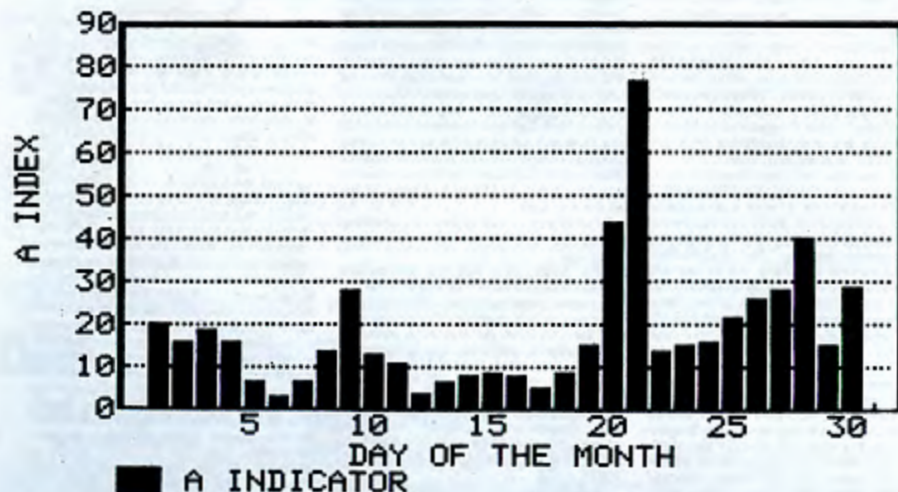
In fact, there have been reports the station could have begun operations months ago; Radio Marti's interim director, Kenneth Giddens, said in mid-January that Jan. 28, the 132d anniversary of Jose Marti's birth, was a tentative "target" (BROADCASTING, Jan. 21). Congressional sources were said to have blamed the delay on the administration officials' insistence on considering Cuba's possible reactions and the U.S. response to them. Hawkins appeared to confirm those reports. "The State Department didn't want them to do it," she said. "It didn't want to initiate action. It likes to react."

A little more than 43 years ago, the Voice of America went on the air unaccompanied by the hoopla and the controversy surrounding Radio Marti's first broadcast day. The opening statement, 79 days after the Japanese attack on Pearl Harbor, was also simpler than the Radio Marti inaugural message: "Daily at this time we shall speak to you about America and the war—the news may be good or bad—we shall tell you the truth." Those matters aside, the time has arrived to test whether Radio Marti can serve Cubans in Cuba and the U.S. national interest at the same time—assuming the effort is not interrupted by a "radio war." □

AFR GRAPH

Russ Edmunds, 753 Valley Road, Blue Bell, PA 19422

APRIL/AFR GRAPH



This graph shows the daily variations in AFR, the Fredericksburg (VA) index of geomagnetic activity in the earth's magnetic field. High values (above 20) indicate that medium wave signals in upper latitude paths will likely be absorbed thus resulting in "auroral conditions", with signals from the South and from local stations predominating due to this absorption of the more northerly signals. Low values over a period of time indicate a likelihood of more receptions of the higher-latitude paths --- more, and more northerly TA's and TP's. Several days of low values following higher ones are needed for conditions to return to "normal", due to residual absorption. Long periods of extremely low values (6 or less) are necessary to raise the possibility of good high-latitude conditions throughout the entire MW band, although this is not the only requirement. For additional information on the use of the AFR and related indices as a DX tool, consult the NRC Reprints List for relevant articles. (The Reprint List can be obtained from the NRC Publication Center, whose address is located on the back cover). ---RJE

DUSTY DIALS

Tom Farmerie, 62 Sunrise Ave., Grafton, MA 01519

A Look at the History of Radio and DX

Here's the fifth and final installment of "WHEN I LISTENED IN" by S. Ray Lewis, "The Lotus City DXer", edited for DX NEWS.

As the storm clouds of war drew closer in the final years of the 30s, some Japanese stations mentioned in their verifications that it was hoped the good relations between the countries continued in the future. And like the Japanese, certain German radio stations pointed with great pride to their very modern equipment and extremely powerful transmitters, and hoped that U.S. listeners would continue to tune them in.

Shortly after the Declaration of War on December 7th, 1941, the F.C.C. ordered all Amateur Radio stations off the air, and requested Civilian Defense Authorities in all large cities to begin setting up a National Emergency Network of low-powered radio stations forming a protective network to assist in event of air attack or other types of emergency. Toledo was quick to avail itself of this opportunity and became part of W E R S, War Emergency Radio Service. This WERS network, and its operators, were issued licenses for special operations under an F.C.C. ruling as a Temporary Matter. The Toledo Radio Club was soon requested to assist with the training and licensing of Third Class Radiotelephone Restricted Operators who would man the 60 new stations needed to complete a protective network in our area. Meanwhile, I was invited to become Secretary to the Radio Aide for the WERS network in the Toledo area. I accepted of course, and one of my first duties was to become familiar with the operating of an Abbott Transceiver.

The Defense Department shipped sixty transceivers to Toledo, and they were compact efficient pieces of equipment operating on 2 1/2 meters, with maximum output of 25 watts. They were battery powered and principally for mobile operation. Those members of TRC who were not licensed amateurs had to study in order to pass the required exam. Everyone in the WERS network also had to be cleared by the Toledo Defense Council.

Call letters for Toledo's WERS station were WKJF, and operators assigned numerical call suffixes. Mine was WKJF 49, and soon I became known as the "Old 49er". Within a few months most of the 60 stations were on the air and holding regular network drills, usually during the evening hours. A Control Station was set up on top of the 28 story Ohio Building, Toledo's tallest at the time. Network drill procedure was for the Control Station to call all mobile operators who were patrolling in predetermined districts, all over the city.

Civilian Defense officials eventually had WERS protection for rural areas near Toledo, covering the entire county. Because I worked in the Ohio Building, I had access to the Penthouse, which was the location of the Control Transceiver. In addition to using the Abbott Transceiver in my auto, there was an antenna for 2 1/2 meters atop our house. Therefore, I could operate from three different locations: my car, my home basement, and atop the Ohio building.

WERS was in constant touch with both the Police and Fire Departments of Toledo, and the Lucas County Sheriff's Office. Some of our outlying stations were located in high Fire Station towers, and in constant touch with local Red Cross HQ. We assisted Red Cross many times in minor emergencies, just to test our equipment. Our main purpose was to be ready to render whatever service was required in event of emergency. We were also in contact with the Toledo Naval Base and Army HQ at Camp Perry, a few miles to the East on Lake Erie.

According to a number of WERS logbooks, quite a few of the operators, including myself, spent nearly 1,000 hours transmitting in a little more than 33 months of service. This time was divided between network drills, emergency transmissions for Air Raid communications, and Red Cross clothing drives. There was a note of sadness to the great celebration in Toledo at the end of World War II. WERS was officially informed by the F.C.C. that the need for our services had ended. The date set for the demise of WERS was November 15, 1945. Although we were genuinely happy about the war ending, there were lumps in many a throat as the operators signed off for the last time. It was quite a solemn occasion for many of us, including me! Our little radio network had become a "way of life", so to speak, for nearly seventy dedicated people who had been closely associated for almost three years. Many lasting friendships had been formed.

As might be expected, I had done very little DXing on the broadcast band during the War years. To some extent, I had lost interest because of the great amount of time consumed at work and with WERS. The bank for which I worked had occasionally loaned me out to promote the sale of "E" bonds by giving talks in the Toledo School System, and periodically I also was sent to work at Gasoline Ration Board #7. Therefore, there was very little, if

any time left for DXing; but now and then I'd get a strong urge to spin the radio dials and try for a new station; but the sparkle had gone out of the champagne; so to speak.

Recently (this was written by Ray in 1983) I learned that some old, and some new, DX fans in the National Radio Club were planning to publish a book to commemorate the 50th Anniversary of this very enduring Radio Club. I've contributed a number of copies of old time pictures and copies of card and letter verifications. It is my fond hope that Project 50 for NRC will be a complete and huge success!

While on the subject of Radio Clubs, at least a few more sentences should be devoted to say that they were indeed of prime importance to DXers as far back as I can remember. Information and tips reported by members via the columns of the editors of DX bulletins were of immeasurable value to all over the years. I will recall the DX programs arranged by the National Radio Club and the Newark News Radio Club.

The Toledo Radio Club was also active in this respect, in a smaller way. From time to time in the 30s we were able to persuade our local stations to broadcast several early morning DX programs. We also took members to WKRC, in Cincinnati, where we put on special live programs on two different occasions. It was my pleasure to write the scripts, and include original skits and club songs on those special DX programs.

It is now time to wind down my story in the final paragraphs of this somewhat egotistic chronological account of my nocturnal journeys by radio to cities and countries round the world. A DXer once wrote me saying that I must have been blessed with an understanding wife, and a tolerant family, in order to have been able to spend so much time at the dials over the years. This is only too true, and I heartily agree. However, I'd like to add that my spouse (we've been married 55 years as I write this!) as well as other members of the family seemed to enjoy it when I told them of hearing some new hard-to-set stations, particularly if it was a distant one, or perhaps from a foreign country. I also well recall that on many an occasion, the receipt of a verification of reception from a special station called for a celebration in the Lewis family!

Looking back in retrospect, there are so very many pleasant memories that come to mind, and each has a magical way of recalling nice yesterdays during my DX career - if it can be called that! Once again I find myself thinking back to the battery and line powered radios I once owned; also to my first verification of reception in 1930; to all the wonderful friendships with other DXers; and serving in the W.E.R.S. during World War II.

Yes, radio was indeed a very important part of my life, and there are no regrets at having spent countless hours in dial journeys around the globe on that "Magic Carpet of the Air" called ether waves.

My knowledge of Geography was certainly improved by DXing as well as my ability to write letters.

Although I amassed a grand total of 1307 verifications of reception from broadcast band stations in a little over eleven years of DXing, there were other DXers who exceeded that mark considerably. There is really nothing extraordinary in my achievement, nor was it of any great importance in the overall story of radio.

However, with this story, I have attempted to relate happenings which were of some consequence at the time, at least to others in the DXing fraternity during the 1930s. If some older readers of this story have been furnished with a bit of nostalgic pleasure, or have recalled some of their own experiences with radio in its early days, then at least one of my purposes will have been accomplished.

Then too, perhaps some of the younger generation may have been given interesting facts about a subject that was previously unknown to them. If this happens, I will truly have established enough reasons for writing this story about the years "When I Listened In."

Therefore, in conclusion, there is little more for me to say than to sign off quite appropriately with

Best 73's to all!

S. Ray Lewis
The "Old Lotus City DXer"

From building an oatmeal box crystal set as a young boy in the days of commercial broadcasting's infancy, thru being perhaps one of the top five BCE DXers in North America, and certainly in NRC also, during the golden 30s, plus being able to relate this story for us here in the 80s, Ray has truly "been there".

I remind all that a recent photo of Ray, surrounded by some of his old receivers, occupies a full page in the NRC 50th Anniversary Book.

Future DUSTY DIALS will feature some photocopies of Ray's verifications that he sent on to me last year.

or
New Uses for Test Point E203.

By John H. Rose III

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An article by Craig Healy called "The 390A on Longwave - Cheaply" started me to thinking. The 390A and 392 are very closely related in design philosophy and execution. If Healy got his 390A on LW by injection into the First Mixer, could I?

Pulling the receiver out of its case and looking at the upper deck, there are 3 tubes in a row going from front to middle. The rearmost one is the target, V203 the 26C6. Just beside this tube is a metal post which is E203 and is nothing more mysterious than a direct connection to the grid of V203. This normally is used for either checking the RF amplifier output ahead of V203 or (see how things fit together?) injecting a test signal for troubleshooting the mixer. Out came the signal generator from its dusty spot on the workbench and into E203 went a signal. It worked all the way to the lower limit of the generator, about 100Kc. like the 390. The 392 RF amps do not work below 472Kc and do not interfere with this new use.

Hooking the antenna and MFJ 955 tuner to E203 and ground to the chassis for the second experiment worked, and rather well, from 600Kc to 228Kc when the experiment was terminated due to power line interference threatening my eardrums. This location doesn't lend itself too well to a lower. I have 3 conclusions so far. There is less gain (lower volume than normal) though still adequate. Some selectivity is lost as when tuning 570 some 580 can be heard when normally it would not be. At this location, this is a difficult test. I also conclude that just about any LW-MW tuner could work here. The prospects for an amplified loop or active whip look very promising. Perhaps others will try this and report their findings. I urge someone with a 389/URR VLF-MF receiver to see if this technique can be used to extend it's range above 1500Kc.

The RBL is a VLF receiver tuning 15Kc to 600Kc and manufactured during WWII by the National Radio Company. The circuitry is classic text book history. This, with the possible exception of one other VLF receiver, is the last of the Tuned Radio Frequency rigs. This is not a TRF like Radio Shacks', which is really a superhetrodyne with an RF stage ahead of the mixer and slick advertising. In the historical TRF, all the stages were tuned to the same frequency, no mixer or oscillator or IF, all the way to the detector, which is a regenerative circuit in the RBL. This rig has to be the world's heaviest 7 tube AC-DC battery rig at 75 pounds. The TRF's achilles heel is lack of selectivity as the frequency goes up. When tuning 560Kc., I can plainly hear 540 and 580 in the background. As tuning goes lower, the selectivity gets tighter and tighter. Thus the 3rd experiment.

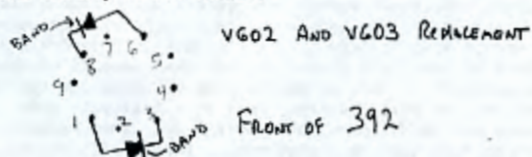
Could the signal be taken out of the RBL before detection and injected into E203? Scrutinizing the RBL schematic suggested that pin 4 of the 3rd 6SK7 from the receiver rear, the detector, would do nicely. Coax works here for direct connections of pin 4 to E203 and both chassis via the braid. This works because all the equipment involved is AC transformer operated, has been safety checked, and the pins are well enough isolated from their circuits. This yielded complete success. Gain was much higher and selectivity was much improved over the RBL alone. The experiment worked until 250Kc and the line noise started again. I am confident that either setup would work to the limits of the RBL or ant/tuner given the results of experiment #1. If I could get a quiet location to listen. The line noise is vicious, intermittent and occasionally wipes out the lower half the BCB.

The 4th experiment is more obvious. Will the IF output, jack J105 on the front of the 392, feed into the RBL tuned to 455Kc to use the RBL's very sharp CW filter? Yes. Sort of the ultimate Q5'er. The severe drawback is very sharp selectivity in an audio frequency range I don't like, for too muddy and low.

Experiment 5 is unusual. An article in the January 1985 Monitoring Times, suggested that a VLF receiver could be used to detect the hidden subsidiary communications authorization carried by some FM stations. A receiver capable of tuning down to 60Kc is necessary. The signal is taken from the FM receiver after demodulation and before de-emphasis or MPX decoding. I'm lucky, all my tuners are set up with jacks or pins at exactly this point. Feed the signal from this point to E203, tie the chassis together (make sure both rigs are insulated from the power line!) and listen for carriers at 67 and 90 Kc. This is FM modulated material and the detection method is called "slope detection" or "off tune". This causes some distortion (use the 8Kc bandwidth) and there is no limiting of noise, yet it allows you to sample the material and decide whether to get a proper SCA adapter or put FM in the VLF rig. This works reasonably well with the 392 and allowed me to find carriers that my non-tunable SCA adapter can't detect. The RBL works to an extent, the selectivity at these frequencies is too narrow and regen rigs don't do FM well. I also tried this with my Radio Shack DX300 and was unable to make it work at all. Of course, it doesn't work very well for me at all here for BCB or lower, works OK portable.

I've not made these changes permanent yet which has some advantages. No switching is required and plugging the cables in and out is not too inconvenient for the use I give the rigs. No big expenditure of energy is needed. If I had a tunable amplified loop or whip, as with the ant/tuner, only 2 knobs would need to be tuned, as is normal. Keeping the case open has a very large disadvantage, however, in that you gotta whiff that fungicide! YUCK! Using the RBL is the really serious setup, but requires tuning 3 knobs. I will probably replace either the lower antenna binding post or a spare fuse holder on the 392 and route coax to E203 with a push on connector or wirewrap. I don't think solder will wet to the post and that would require unsoldering for disassembly. I dread another disassembly and if I do, there are other mods which can be tried. On the RBL it's a straight forward job of .01 mfd cap for safety to coax to connector on the back panel.

For the last experiment I am indebted to N.J. Thompson, KH6FOX, in Ham Radio magazine, April 1976. After you've had your fun and games with the setup, disconnect everything from the 392, flip the chassis over and find V602 and V603, 2 12AU7's on the left, center viewed from the front. Pull them out and put them into cold storage. Acquire some small signal diodes (I got 10 for \$1 at Radio Shack) and installed in the tube sockets. The banded end of a diode goes to pin 3, the other end to pin 1. Another diode gets the banded end in pin 8 and the other in pin 6. Do this for both sockets. Pin 1 on my rig is closest to the front and pin 9 is on the left of the gap viewed from the top of the socket.



This is not quite as easy as it sounds, however. The diode leads are much finer than the tube pins. Putting the diodes in the crack of the pin holder is possible, but it's easier to put the lead in and put in another piece of wire to act as a jam. Better yet, use a salvaged 9 pin tube base. Pick any defunct 9 pin tube, wear gloves and use a sharp cornered file to cut a groove around the base. Tap the tube to break it off, get the works out and solder the diodes to the now vacant leads. Vanco used to make part number AP-9, an autoradio 9 pin plug to which the diodes could be soldered, though it is very hard to find. I do not suggest you solder the diodes to the tube sockets, hardwork, close spaces, receiver disassembly required. No where else in the receiver is such an easy mod possible because of the filament strings, i.e., pull another diode and an amplifier no longer lights up, or the diode is in the same envelope as yet another amplifier. Have fun!

NAB Urges Action on Mexico AM Agreement

BY BILL HOLLAND

WASHINGTON In an unusually urgent manner, the National Assn. of Broadcasters has asked FCC chairman Mark Fowler to act promptly in clearing up delays being felt by American broadcasters as the result of a still-to-be-concluded bilateral AM radio agreement with Mexico.

NAB president Eddie Fritts said, in a letter hand delivered to the chairman's office April 1, that the association has received "dozens of complaints" from daytime-only stations operating on Mexican clear channels who have not yet been able to implement post-sunset authorization approved by the FCC last year because the bilateral agreement with Mexico appears "to be at a standstill."

In addition, Fritts said, no nighttime operation on Mexican clear channels can be authorized until the agreement is concluded, and dozens of applications for new stations will be held up. He asked the Commission schedule a meeting with Mexico as soon as possible.

"There appears to be no major policy impediment to the signing of

a mutually-beneficial bilateral agreement," he wrote. "However, it is our understanding that no new negotiating session date has been planned."

Fritts also urged the FCC and the State Dept. "to use exchange of letters" to resolve any remaining problem areas. He made mention that similar agreements with Canada "were relatively quick to reach" in January, 1984, and asked the Commission to finish up the agreement with Mexico soon.

The NAB letter is the first major AM daytime issue taken up by the organization since the daytimers voted to dissolve their own organization and merge with the NAB.

RKO Radio is dropping "Night Time America," its live, five-hour nightly offering, within three months. Also being cut from the schedule is "People Magazine Minute," which went on the air in October. RKO was recently purchased by United Stations... WNYC-AM-FM New York begins its 10-day fundraising drive, "New Directions '85," on April 20.

Narragansett Broadcasting of Calif. has purchased KETT-AM and KSIO-FM San Jose from Sterling Recreation Organization for \$6,250,000 in cash and \$2,000,000 in non-competitive and consulting fees. Narragansett Broadcasting was formed by Narragansett Capital Corp. of Providence and John E. Franks, a former owner of WHJJ-AM and WHJY-FM Providence.

CBS RAD  AFFILIATE

P O BOX 149
SUNNYSIDE, WA 98944



STATION PROFILE

Tony Fitzherbert, 356 Jackman Avenue, Fairfield, CT 06430

Two Suburban Towns - Two Friendly Local Stations - WCHE-1520 and WZAL - 1540



About thirty miles west of Philadelphia, in the rolling green countryside of Chester County, lies the sleepy burg of West Chester. About 17,000 residents live in this town, and many work locally, some in the mushroom farms which dot the area. Others commute to Philadelphia via SEPTA's commuter rail line, and many drive up Route 202 to King of Prussia, the local version of Silicon Valley. This town is preoccupied with its past - the downtown area has recently been rehabilitated to look like a 19th Century mainstreet.

Also preoccupied with the past is WCHE - 1520, a 250 watt sunup to sundown operation, which is "West Chester's Only Radio Station". While the 250 watt signal and exclusively local programming will never push WCHE into the Arbs, the station is on radios all over town, in the shops, in the court house, and in cars locally, with its Adult Standard format. Radio with a strictly local flavor is the life long project of 58 year old Willie Gehlert, amiable morning man, general manager, ad salesman, part owner, and local celebrity. Willie took over the station back on June 4, 1964. The station first went on the air on October 4, 1963, and went dark eight weeks later. The original location was at 133 North High Street, and in 1976, the studios and offices moved to the present 139 Gay Street location. The NRC's Dave Schmidt, WCHE's Chief Engineer, installed the wiring for the new facility, when he took the CE's job. The present setup is in a former TV repair shop, complete with a storefront window.

WCHE began as a Top 40 Station, with the "Yankee Doodle Sound for Chester County", and, over the years, the format gravitated to the present blend of 50's, 60's, and 70's music for adults. On Sundays, religion, and two hours of Spanish programming make up most of the day's offering.

Willie Gehlert's "Wake Up with Willie" show features no music written after 1950. The other DJ's play newer music, but "No Rock" says Willie.

WCHE is affiliated with no network, and broadcasts only local news. If there is three minutes of local news, that is the length of the news cast - if there is eight minutes, than the listener hears an eight minute news cast. For national and world news.....listen to KYW or WCAU!! All of the advertising is for local businesses. Willie likes to make the calls personally - everyone in town knows him.

WCHE has a staff of six full time professionals, and six part timers. Many WCHE alumni have gone on to bigger radio jobs elsewhere. Willie takes great pride in teaching aspiring DJ's and news directors all of the ropes and seeing them get better jobs after seasoning at WCHE.

Willie broke into radio at the tender age of 12 when he obtained a job at KYW, when its management admired his poise when his Boy Scout troop sent him to participate in a show for children. He was given a regular slot called "Let's Visit the Zoo".

During World War II, in the Hawaiian Islands, he got his first full time radio show - on the Armed Forces Radio Network. By 1950, he was the morning man on WAMS, Wilmington - until the boss felt that he was too old, and made him a salesman. Willie then took over the broke WCHE.

WCHE takes part in the small town life, and broadcasts local high school football, remotes from the local Restaurant Festival, and the big promotion event of the year is the sale of new-dollar bills for 89¢ at a local shopping center!

WCHE still uses its original 25 year old transmitter, an RCA BTA-250M, lovingly cared for by CE Dave Schmidt. The transmitter is located 1.7 miles south of the station, and feeds a 162 foot tower.

WCHE's signal during equipment and DX tests has reached from Florida to New England, and as far West as Chicago and St. Louis.

WCHE is a classic example of a small town station which is a welcome, reliable citizen - a real part of life in bucolic West Chester, Pennsylvania.

Thanks go to WCHE's Dave Schmidt, Editor of Domestic DX Digest for his contribution of information for this WCHE Station Profile. Also, much of the information for this article came from a feature story about WCHE in the Philadelphia Inquirer on January 1, 1985.

WZAL

AM — 2,500 WATTS — 1540 KC

A radio station which has been authorized 4 watts PSA, and actually uses it 49 weeks a year?? Yes - WZAL - 1540, in McDonough, GA, an outer Atlanta suburb, indeed broadcasts on its 4 watt PSA. In the words of Jim DeVan, WZAL President and General Manager (in a letter accompanying a most attractive certificate verifying reception of WZAL) "The LPB transmitter was installed new in September, 1980, shortly after WZAL applied for, and was granted a limited PSA. Our tower is located very close to McDonough, and its residential area - hence the decision to operate even at the miniscule wattage.

On a decent car radio you can carry the 4.0 watts about 4-5 miles. Our main problem during PSA time is not co-channel interference, but adjacent channel spatter from WCKY-1530". The PSA 4 watts is used every month but April. Atlanta gospel powerhouse WYNN must protect this station from its transmitter site 30 miles away.

WZAL's original owners went on the air in the mid 1960's in Jackson, as WJGA. In 1979, WJGA-AM was purchased and moved to McDonough. The call letters WZAL were applied for, and the station signed on from its new location on April 2, 1979. The present owners do not know the intended meaning of the WZAL call. WJGA - FM still broadcasts from Jackson, about 17 miles southeast of McDonough.

WZAL's studios and offices are in downtown McDonough, and the transmitter site is 1.5 miles south of the studios. WZAL uses three transmitters - all are remotely controlled from the studio.

The main transmitter is a CSI 2500 watt unit, with the ability to cut back to 1 Kw for critical hour operation. The station relies on a Gates BC-1-C as a standby - this is the original installation, moved from Jackson. This transmitter can cut back to 500 watts, not presently used.

The PSA transmitter is a solid state LPB unit, about the size of a bread box, and its range at 4 watts is about two miles.

WZAL's tower and ground system were installed in early 1979. The unit tower stands 196 feet.

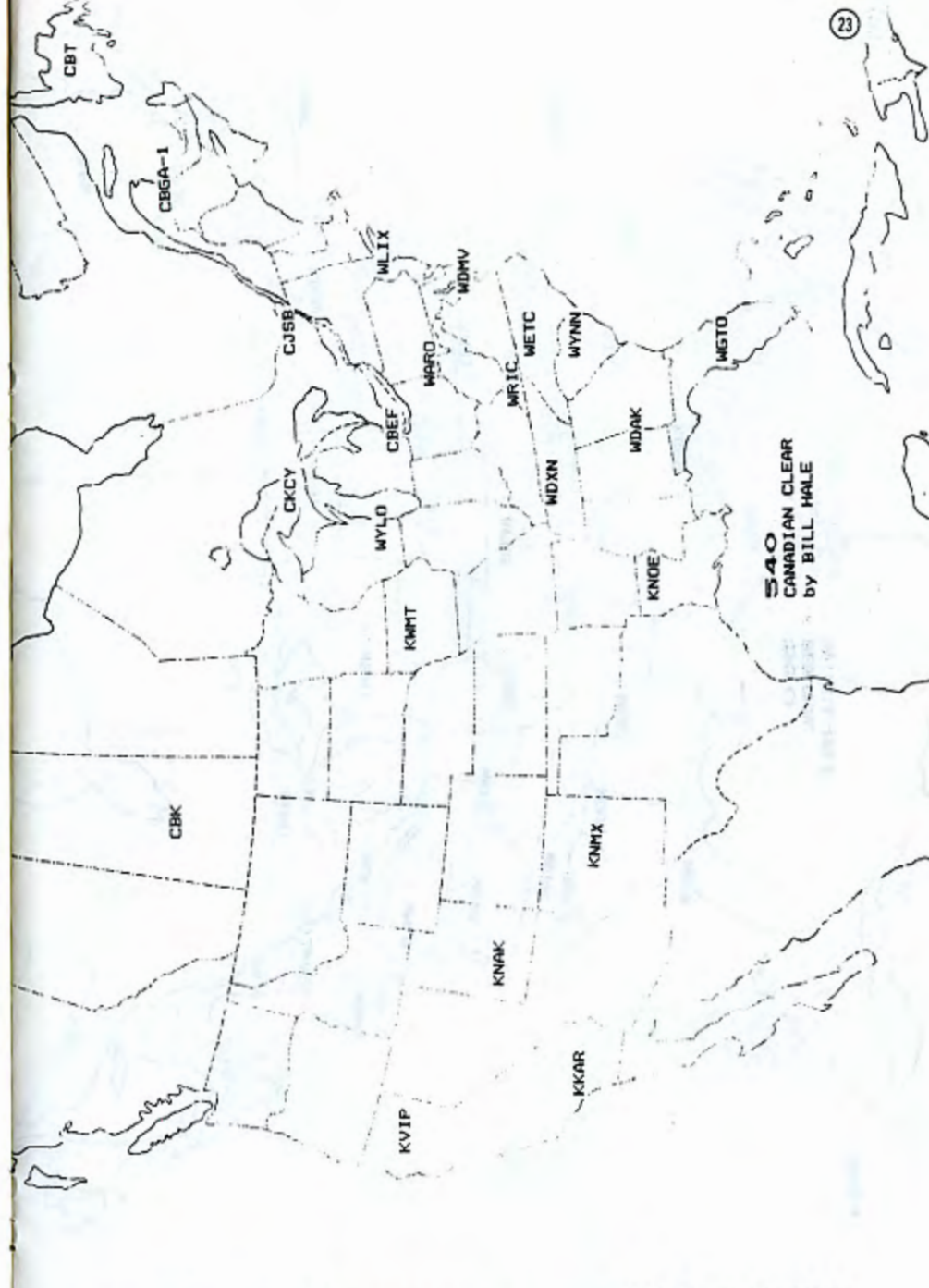
The station is affiliated with the RKO network for national and world news, and it formats middle of the road music. WZAL carries all of the daytime Braves games, and, in the fall, broadcasts University of Ga. and Atlanta Falcons football games. Friday night football matches are rebroadcast on Saturday mornings. The Georgia Network feeds state news and sports to WZAL.

WZAL broadcasts five Henry County newscasts daily. Community Calander, Henry County School News, and Ludlow at Large (a humorous daily broadcast by a local sage), and Georgia business news from the Georgia network round out the day's offerings. Religion, including a live broadcast from a local church, and other programs, are heard on Sunday, from 7:15 AM to noon.

McDonough is a town of 3,000 people, 30 miles southeast of Atlanta. This peaceful village is the Henry County seat. A former center of cotton production, the area now mixes dairy farming and other agriculture. Henry County's population numbers around 40,000 people, many of which from the northern part of the county commute to jobs in Atlanta.

WZAL also broadcasts on Channel 19 and 27 on Jones Cable TV, a local cable company. The station was named "Radio Station of the Year" in 1984 by the GAB. "Henry County Radio" is owned by DeVan-Moore Communications, whose friendly president Jim DeVan is a former avid DX'er, whose hobby has lead to an enjoyable profession. Jim recently conducted a DX test for the NRC and other DX clubs. Both the 2500 watt and 4 watt signals carried an appreciable distance up the eastern seaboard, according to reports from DX'ers. Jim administers the station, supervising a staff of four full time persons, and four part timers. His wife, Karen, handles the station's finances, in the classic example of a mom and pop business - albeit an extremely successful, well-managed station. Jim got interested in broadcasting in the 1960's when he DX'ed with a Lafayette HE-40 and 40 foot longwire - his most notable catch was KORL-650, Honolulu, heard during a WSM silent period.

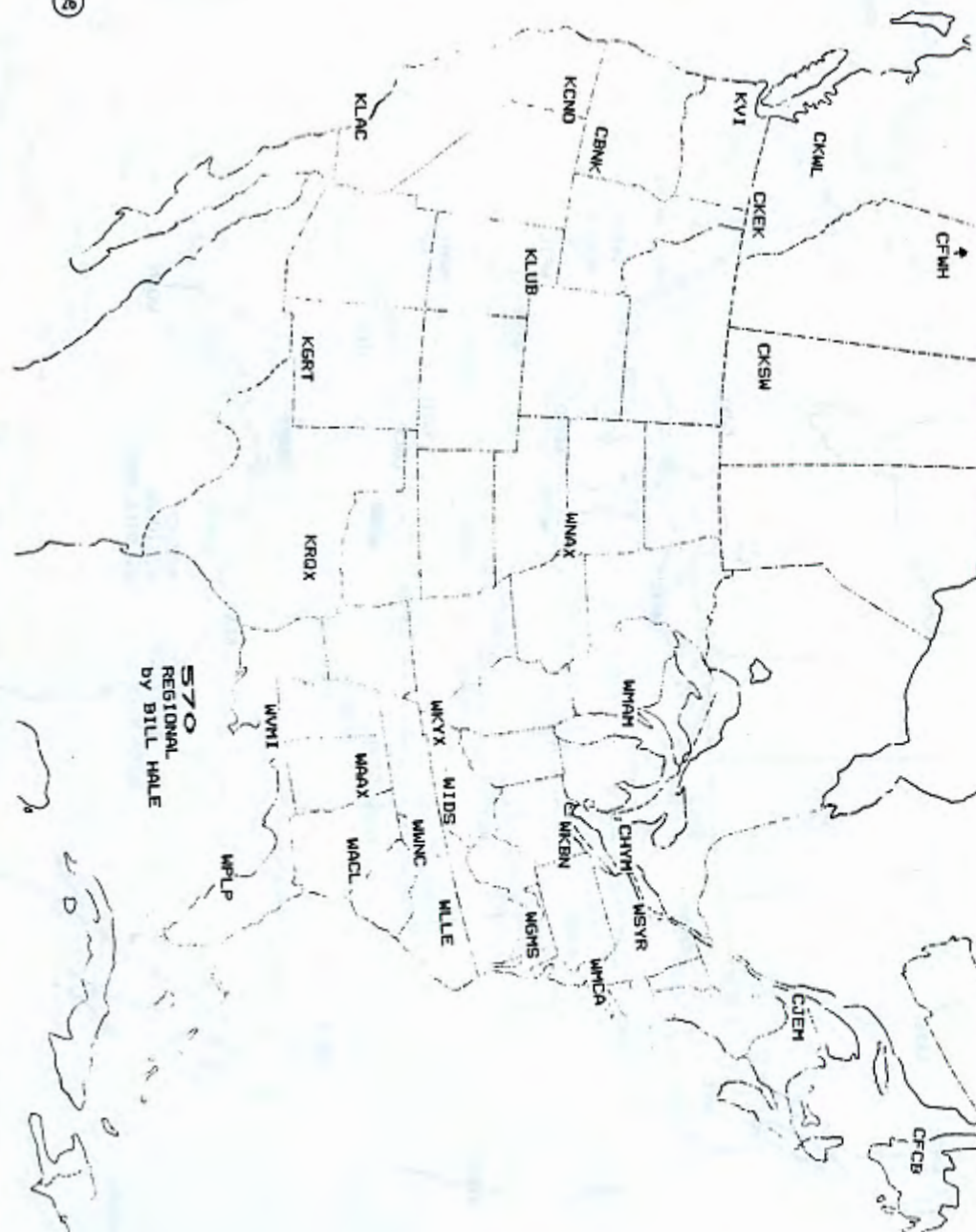
The NRC wishes to thank Jim DeVan for his help to the club in arranging the Winter, 1985 DX test, and for the very attractive verification certificate. The editor thanks Jim for his help in supplying information for this WZAL profile.



WNPV

KECK

P.O. Box 6006
Lincoln, NE 68506



I-94
IM
SERVO

WFAQ
AM 790 Radio

Radio
Station

KVOU

1400 WILDCYCLER

PRODUCED BY JERRY POSNER



P.O. BOX 888
N.E. 400 7th
LIVABLE, TEXAS 75001

Post Office Box 1
Eau Claire, WI 54702

KMDY has sense of humor one year later

By Karen Kenney
Daily News Staff Writer

At 1 noon on April 29, 1984, Thousand Oaks added 500 watts to broadcasting's sense of humor when its news-talk station KQCE-AM became all-comedy KMDY-AM(850).

Its bumper slogan, "Push the Funny Button," could have been an industry joke, but a year later, station management is having the last laugh.

"Our advertising revenue in 'At this point, people are listening because they want to. It's their radio station'

April 1985 was four times what we did in April 1984," says Bob Zidel, vice president of Comedy Broadcast Co. and general manager of KMDY, which serves Ventura County, the West San Fernando Valley, Santa Monica and Santa Barbara.

"Early on, listeners tuned us in because of the novelty of the station," he says, "but at this point, people are listening because they want to. It's their radio station. They've developed a listening habit."

The all-yuk format is a zany spice of album and taped comedy cuts aimed at the funny bones of 25- to 54-year-olds, a spicy but tempered stew of Golden Age, contemporary, caustic and cosmic humorists. The 4,000 cuts include the

a.m. to 2 p.m. lunch bunch. Although it has a 24-hour Federal Communications Commission license, KMDY operates only from 5:30 a.m. to midnight daily. But Zidel says plans are in the works to syndicate KMDY programming and extend weekends to 24 hours.

Comedy radio could revitalize the "sterile," predictable formats that are choking AM radio nationwide, Zidel believes.

"AM stations don't reach out and touch people," he says.



Tom Jagoe/Daily News
"When people listen to comedy, they put it in the context of their own experience. Comedy is frontal-conscious radio," says program director Jerry Posner.

best of W. C. Fields, Jack Benny, Abbott & Costello, Groucho Marx, Bob Newhart, Spike Jones, Victor Borge, Bill Cosby, the Smothers Brothers, Allen & Rossi, George Carlin, Soupy Sales, Lily Tomlin, Robin Williams, Robert Klein, Don Rickles and edited bits from Joan Rivers, Weird Al Yankovic, Richard Pryor and Eddie Murphy.

"We don't want to play things that are insulting, embarrassing or overly offensive material," says Jerry D. Posner, KMDY's program director and midday DJ.

"When people listen to comedy, they put it in the context of their own experience," Posner adds. "Comedy is frontal-conscious radio. You have to listen to it.

It's not elevator music. People remember the skits."

Zidel says advertisers believe the intent listeners drawn by the station also remember the commercials. "People listen with a positive frame of mind. They are in a good mood," he says.

KMDY was the third station to enter the nation's comedy-radio derby. WJOK-AM in Gaithersburg, Va., a suburb of Washington, D.C., was the first in January 1983. KLAJ-AM in Salt Lake City joined that summer. (WJOK has since dropped the all-comedy format.)

KMDY's format is the product of many talents, including Zidel, former KMDY programming director Steve Gordon (now a TV producer) and Posner. Film

producer Ira Barmak is the general partner directing station ownership; Producer-actor Michael Douglas is also among the nine limited partners who built the KMDY bandwagon.

The station keeps its comedic juices flowing with ongoing searches for new comic talent, cash and prize giveaways to its Comedy Klub Kard holders, and a lineup of "Comedy Joke Jocks."

Listeners wake at 5:30 a.m. to KMDY's "morning mouth," DJ Bob Taylor, and go to sleep with the "Mo Show," hosted by femme DJ Maureen weeknights from 6 p.m. to midnight. DJ Kevin Brooks handles the 10 a.m. to 2 p.m. laughs, and Posner takes care of the 10

"There's a humanity to radio. I'd like to see AM radio take more chances — maybe with comedy or all-financial formats. I'd like to see AM radio provide more of a service to listeners."

He predicts KMDY's success could encourage more AM broadcasters to select the all-comedy format.

"I didn't think anyone could have predicted what the outcome of comedy radio would be at the beginning," Zidel says.

KMDY's episodic brand of format is really aimed at the

driving audience, he adds. "We know what lifestyles are," he says. "Our format is geared for people who get in and out of a car. We're not teaching people how to listen to comedy. We don't expect or want people to listen to us all the time. We don't want to burn our audience out."

K 1580
KRRK
AM

2114 E. 11th Street
Davenport, Iowa 52803

Mark Connelly -- WALION DX Labs -- 15 MAR 1985

DXers using directive antennae (such as loops and Beverages on low and medium frequencies or Yagi beams, quads, & rhombics on the higher freq's) need to know the direction and the distance to target DX-station areas in order to optimize antennae. Furthermore, bearings to known target areas aid in the use of direction-finding techniques on unidentified signals.

A world globe and a string can be used to determine approximate direction bearings (horizontal angles) to DX stations; however, use of computer programs allows the rapid determination of many bearings and distances. Several programs have been published in the DX press at various times.

BEAMAC - a versatile great-circle bearing & distance program

This article presents a program with several enhancements over previously-published programs. In short, these are:

1. Data is not stored within the main program. This cuts down on computer-memory usage and reduces the main program's length. Small "satellite" BASIC programs generate disk datafiles. These satellite files give greater versatility: they can be edited, deleted, augmented, etc. (& then re-run to generate fresh datafiles) without effecting the main BEAMAC program. The WORLD.B2S program shown after the main program is one of several satellite datafile-generators. The datafiles (e. g. WORLD.DAT) created by the satellite files are called Geodata files: they contain location data which are not only usable by BEAMAC but by several other programs including the SRSS series sunrise/sunset programs.
2. Sorting Capability. The output can list target sites:
 - (1) by the order in which they are listed in the Geodata file;
 - (2) by order of bearing in degrees east (clockwise) of true north
 - (3) by order of distance from the operator's location
 - (4) by order of targetsite latitude (most northerly to most southerly)
 - (5) by order of targetsite longitude (most westerly to most easterly)
 Geodata files of up to 128 entries may be used.
3. Distance may be specified in statute miles, kilometres, or nautical miles.
4. Operator location can be a programmer-chosen default (see Line 1060) (thus eliminating the need to enter home-site data each time) or any other location (with appropriate coordinate info. entry).
5. Output is in a write-to-disk-textfile format for the benefit of those who want to do word-processing on the output before printing; the PRINT #1 lines can be changed to the appropriate direct-print-to-paper commands if so desired. A single output file may be comprised of several different runs (e.g. same operator site, different sort methods - or same sort method, different operator sites - or same operator site, different Geodata files - etc.) if so desired.
6. Numerous error-handling utilities have been put into the BEAMAC program to keep faulty entries from "hanging up" program execution.

As a "picture is worth a thousand words", a sample output is given next. Hopefully it will stimulate those with appropriate computers to do the "dogwork" of keying-in (and custom-modifying) the programs that follow the output run.

A sample Output File:

This is file: WORLDLIST.TXT

Geodata input file: WORLD.DAT
Great Circle Bearing & Distance Program: BEAMAC.B2S
>> ANGLE-SORTED <<

Operator Location: USA / MA - W. Yarmouth
Lat. = 41.688 N / Long. = 78.228 W

Location	Lat.	Long.	GCB(deg)	GCD(MI)
INDIA - New Delhi	28.62 N	77.22 E	29.1	7148.8
USSR - Moscow	55.75 N	37.70 E	36.2	4498.1
SWEDEN - Stockholm	59.33 N	18.05 E	38.9	3749.6
CZECHOSLOVAKIA - Prague	50.08 N	14.42 E	50.2	3887.7
GERMANY - Langenberg	51.37 N	7.12 E	51.0	3568.2
ENGLAND - London	51.50 N	0.17 W	52.9	3261.1
FRANCE - Paris	48.87 N	2.33 E	55.5	3424.4
ISRAEL - Tel Aviv	32.08 N	34.77 E	56.5	5468.0
GREECE - Athens	38.00 N	23.73 E	57.8	4719.7
CANADA / NF-St. John's	47.57 N	52.68 W	58.7	958.2
ITALY - Rome	41.88 N	12.50 E	59.5	4076.8
SPAIN - Madrid	40.42 N	3.72 W	68.0	3373.7
ALGERIA - Algiers	36.83 N	3.00 E	69.0	3809.1
PORTUGAL - Lisboa	38.73 N	9.13 W	72.4	3159.4
KENYA - Nairobi	1.28 S	36.83 E	79.4	7147.7
AZORES - Flores	39.40 N	31.20 W	81.3	2036.0
NIGERIA - Lagos	6.45 N	3.47 E	96.1	5078.6
ANGOLA - Luanda	8.83 S	13.25 E	100.9	6286.0
SENEGAL - Dakar	14.63 N	17.45 W	104.6	3642.8
SOUTH AFRICA - Cape Town	33.93 S	18.47 E	117.4	7658.4
BRAZIL - Natal	5.77 S	35.25 W	137.3	3947.8
BRAZIL - Rio de Janeiro	22.88 S	43.28 W	153.5	4778.9
BARBADOS - Bridgetown	13.10 N	59.62 W	159.0	2073.7
PUERTO RICO - San Juan	18.48 N	66.13 W	170.2	1619.9
VENEZUELA - Caracas	10.58 N	66.93 W	173.8	2156.6
ECUADOR - Quito	0.23 S	78.50 W	192.3	2939.6
COSTA RICA - San Jose	9.98 N	84.07 W	205.0	2344.8
CUBA - Habana	23.12 N	82.42 W	212.5	1462.1
USA / LA - New Orleans	30.00 N	90.05 W	240.2	1366.4
TAHITI - Papeete	17.53 S	149.57 W	249.9	6486.1
USA / NY-New York City	40.67 N	73.83 W	250.8	200.1
AUSTRALIA - Melbourne	37.82 S	144.97 E	266.4	18554.7
USA / CA - Los Angeles	34.00 N	118.25 W	274.5	2637.2
USA / IL - Chicago	41.83 N	87.75 W	276.5	901.4
USA / HI - Honolulu	21.32 N	157.83 W	284.8	5129.4
CANADA / ON - Toronto	43.70 N	79.42 W	289.7	487.0
USA / WA - Seattle	47.58 N	122.33 W	297.4	2543.7
USA / MA - Boston	42.36 N	71.06 W	317.6	63.8
JAPAN - Tokyo	35.67 N	139.75 E	335.8	6761.4
CHINA - Beijing	39.92 N	116.42 E	354.9	6778.8

Radio purchase set up

SALT LAKE CITY -- Ballard Smith, San Diego Padres Baseball Club president, and Paul Palmer, general manager of KPMB and B100 radio stations in San Diego, have reached an agreement to buy Salt Lake AM and FM radio stations KISN and KLUW. The purchase from the Carman Corp. would be through a new corporation, Sun Mountain Inc.

Crescent City's Radio Station Off The Air FLA

From Our South Putnam Bureau 5-3-85
CRESCENT CITY -- This town's only radio station went off the air Wednesday, marking an end to two years of local talk shows and country music.

A one sentence statement signed by Judie Bright, station manager, said: "With deep regret WBAS-AM, Crescent City, will cease broadcasting May 1, 1985."

A note was attached to the front door of the North Summit Street office saying to contact Attorney Michael S. May in DeLand for information.

However, May's secretary refused comment late Thursday, saying "Mr. May is not going to say anything about WBAS."

DAYTONA BEACH NEWS JOURNAL

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20 DIM NBR(120), QTH$(120), LATD(120), LMT$(120), LONGD(120)
30 DIM LONG$(120), ANG(120), DIST(120), XSORT(120)
40 PRINT\PRINT
50 PRNAME$="BEAMAC.B2S"
80 PRINT " "+PRNAME$
90 BL$="Great Circle Bearing and Distance"
100 PRINT " "+BL$+" Program with Sorting Capability"
110 PRINT " WAILON DX Labs -- Software Division"
120 PRINT " REV = 15 MAR 1985"
160 PRINT " When entering data, don't use comma ,"
170 PRINT
200 DIM Y$(40)
220 RQ=0
240 INPUT " OUTPUT FILE NAME";OUTP$
250 OPEN OUTP$ FOR OUTPUT AS FILE #1
340 FOR I=1 TO 25\PRINT\NEXT I
350 PRINT " Select units of distance:"
360 PRINT " 1 = statute miles"
380 PRINT " 2 = kilometres"
400 PRINT " 3 = nautical miles"
420 INPUT " Distance unit from menu";D
440 IF D<>1 AND D<>2 AND D<>3 THEN PRINT " ILLEGAL ENTRY"\PRINT\GO TO 350
460 IF D=1 THEN D=69.8468\DS="(MI)"\GO TO 600
480 IF D=2 THEN D=111.12\DS="(KM)"\GO TO 600
500 D=6\DS="(NMI)"
600 F$= " Location Lat. Long. GCB(deg) GCD"+DS
610 UL$=" "
615 UL$=" "+UL$
620 F1$=" 'LLLLLLLLLLLLLLLLLLLL ###.## 'L ###.## 'L ###.## #####.##"
630 F2$=" 'LLLLLL ##.### 'L 'L 'LLLLLL ##.### 'L"
635 STARS$=" "\FOR I=1 TO 67\STARS$=STARS$+"*\NEXT I
640 IF DS="(NMI)" THEN UL$=UL$+"-"\STARS$=STARS$+"*"
680 P=3.1415927
700 RAD=180/P
720 REM
1000 PRINT\PRINT " *** OPERATOR LOCATION ***"
1020 DOQ=0\INPUT " (1=YES) USE DEFAULT OPERATOR LOCATION";DOQ
1040 IF DOQ<>1 THEN 1080
1060 QO$="USA / MA - W. Yarmouth\LA=41.60\UA$="N"\LO=70.22\UO$="W"\GO TO 1290
1080 PRINT\INPUT " NAME OF OPERATOR LOCATION";CO$
1100 UA$=""\PRINT\INPUT " IS OP QTH LATITUDE NORTH (N) OR SOUTH (S)";UA$
1120 IF UA$<>"N" AND UA$<>"S" THEN PRINT " ILLEGAL ENTRY"\GO TO 1100
1140 PRINT\PRINT " ENTER OP QTH LATITUDE"\GOSUB 6000
1160 LA=DEGREES
1170 IF LA=90 THEN LA=89.99
1180 IF LA>90 OR LA<0 THEN PRINT " ILLEGAL ENTRY"\GO TO 1140
1200 UO$=""\PRINT\INPUT " IS OP QTH LONGITUDE WEST (W) OR EAST (E)";UO$
1220 IF UO$<>"W" AND UO$<>"E" THEN PRINT " ILLEGAL ENTRY"\GO TO 1200
1240 PRINT\PRINT " ENTER OP QTH LONGITUDE"\GOSUB 6000
1260 LO=DEGREES
1270 IF LO=180 THEN LO=179.99
1280 IF LO<0 OR LO>180 THEN PRINT " ILLEGAL ENTRY"\GO TO 1240
1290 IF UA$="S" THEN LA=-LA
1300 IF UO$="E" THEN LO=-LO
1310 LT=LA/RAD\LG=LO/RAD
2400 REM " *** O U T P U T ***"
2460 M=0
2465 ON ERROR GO TO 11000
2466 GO TO 2468
2467 PRINT " *** FILE NOT FOUND ***"\PRINT
2468 GOSUB 7000\INPUT " Geodata input file to read";INP$
2469 OPEN INP$ FOR INPUT AS FILE #2
2470 PRINT\PRINT\PRINT
2472 PRINT " Output Sorting Methods Menu"
2473 PRINT " 1 = sort by order of data file entry"
2474 PRINT " 2 = sort by order of great-circle bearing angle"
2475 PRINT " 3 = sort by order of great-circle distance"
2476 PRINT " 4 = sort by order of latitude"
2477 PRINT " 5 = sort by order of longitude"

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2478 PRINT\INPUT " Output sorting method (from menu)";YSORT
2480 YSORT=INT(ABS(YSORT))
2485 IF YSORT<1 OR YSORT>5 THEN YSORT=1\REM DATA-FILE ORDER IS DEFAULT
2486 IF YSORT=1 THEN YSORT$="DATAFILE-ORDER-SORT"
2487 IF YSORT=2 THEN YSORT$="ANGLE-SORTED"
2488 IF YSORT=3 THEN YSORT$="DISTANCE-SORTED"
2489 IF YSORT=4 THEN YSORT$="LATITUDE-SORTED"
2490 IF YSORT=5 THEN YSORT$="LONGITUDE-SORTED"
2495 PRINT\PRINT\PRINT
2500 INPUT #2,B2$\REM DATA FILE TITLE
2550 GOSUB 4400
2560 FOR MN=1 TO MM
2565 IF MN>40 THEN CONT$=" (continued)" ELSE CONT$=""
2570 IF (MN-1)/40<>INT((MN-1)/40) THEN 2710
2600 PRINT #1
2605 IF RQ=0 THEN RQ$="" ELSE RQ$=" (continued)"
2610 PRINT #1, " This is file: "+OUTP$+RQ$
2620 PRINT #1,STARS$
2630 PRINT #1
2640 PRINT #1, " Geodata input file: "+B2$
2650 PRINT #1, " Great Circle Bearing & Distance Program: "+PRNAME$
2655 PRINT #1, " >> "+YSORT$+" << "+CONT$
2660 PRINT #1
2670 PRINT #1, " Operator Location: ";CO$
2680 PRINT #1 USING F2$;"Lat. =",ABS(LA),UA$,"/", "Long. =",ABS(LO),UO$
2690 PRINT #1
2700 PRINT #1,F$\PRINT #1,UL$\PRINT #1
2710 KK=NBR(MN)
2720 PRINT #1 USING F1$;QTH$(KK),LATD(KK),LMT$(KK),
&
LONGD(KK),LONG$(KK),ANG(KK),DIST(KK)
2850 IF MN=MM THEN 2870
2860 IF MN/40<>INT(MN/40) THEN 2900
2870 PRINT #1\PRINT #1,STARS$
2880 PRINT #1,CHR$(12)\REM FORM-FEED
2900 NEXT MN
3030 RQ=0
3040 INPUT " (append to existing output file) (1=YES) Run pgm. again";RQ
3060 IF RQ<>1 THEN 10000
3070 SQ=0
3075 INPUT " (1=YES, ANY OTHER NUMBER=NO) SAME OPERATOR LOCATION";SQ
3080 IF SQ=1 THEN 2400 ELSE 1000
3500 REM " *** M A T H S U B R O U T I N E ***"
3520 AZ=AL\O2=OL
3540 IF AZ$="S" THEN AL=-AL
3560 IF O2$="E" THEN OL=-OL
3620 AL=AL/RAD
3640 OL=OL/RAD
3660 L=LG-OL\IF L=0 THEN 4020
3680 IF L>P THEN L=L-(2*P)
3700 IF L<-P THEN L=L+(2*P)
3720 AA=COS(L)*(COS(AL)/SIN(AL))
3730 AA=MIN(AA)
3740 AZ=((COS(L)/SIN(L))*COS(LT+AA))/SIN(AA)
3750 AZ=MIN(1/AZ)
3760 AZ=AZ*RAD\I=L*RAD
3780 IF L>0 AND AZ<0 THEN AZ=AZ+180
3800 IF L<0 AND AZ>0 THEN AZ=AZ-180
3820 IF L<0 AND AZ<0 THEN AZ=AZ+360
3840 AZ=(INT((10*AZ)+.5))/10
3860 DX=(SIN(LT)*SIN(AL))+(COS(LT)*COS(AL)*COS(L/RAD))
3880 DX=((1-(DX^2))^.5)/DX
3900 IF LG=OL THEN 4060
3920 DX=MIN(DX)
3940 DX=DX*RAD
3950 IF DX<0 AND DX<-90 THEN DX=DX+180
3960 DX=DX*D
3980 DX=(INT((DX*10)+.5))/10
4000 GO TO 4100
4020 IF LT>AL THEN AZ=180\GO TO 3840
4040 IF LT<AL THEN AZ=0\GO TO 3840

```



```

4860 IF LT>AL THEN DX=LT-AL\GO TO 3940
4880 IF LT<AL THEN DX=AL-LT\GO TO 3940
4100 RETURN
4400 REM ### DATA SUBROUTINE ###
4410 MM=MM+1
4420 INPUT #2,QS\REM LOCATION NAME
4422 IF QS="ENDDATA" OR MM>120 THEN CLOSE #2\MM=MM-1\GO TO 4439
4424 INPUT #2,AL\REM LATITUDE IN DEGREES
4425 INPUT #2,A2S\REM LATITUDE N/S
4426 INPUT #2,OL\REM LONGITUDE IN DEGREES
4427 INPUT #2,C2S\REM LONGITUDE E/W
4430 GOSUB 3500\REM MATH
4431 NBR(MM)=MM
4432 QHS(MM)=QS
4433 LATD(MM)=A2\LATS(MM)=A2S
4434 LONGD(MM)=C2\LONGS(MM)=C2S
4435 ANG(MM)=AZ
4436 DIST(MM)=DX
4438 GO TO 4410
4439 IF YSORT=1 THEN 4450
4440 GOSUB 5000\REM SORT
4450 RETURN
5000 REM ### SORT SUBROUTINE ###
5013 FOR I=1 TO MM
5014 IF YSORT=2 THEN XSORT(I)=ANG(I)
5015 IF YSORT=3 THEN XSORT(I)=DIST(I)
5016 IF YSORT=4 AND LAT$(I)="N" THEN XSORT(I)=90-LATD(I)
5017 IF YSORT=4 AND LAT$(I)="S" THEN XSORT(I)=90+LATD(I)
5018 IF YSORT=5 AND LONG$(I)="W" THEN XSORT(I)=180-LONGD(I)
5019 IF YSORT=5 AND LONG$(I)="E" THEN XSORT(I)=180+LONGD(I)
5020 NEXT I
5025 FOR I=1 TO MM
5030 FOR J=1 TO MM-I
5040 IF XSORT(J)<XSORT(J+1) THEN 5200
5100 TEMP1=XSORT(J)\TEMP2=NBR(J)
5185 XSORT(J)=XSORT(J+1)\NBR(J)=NBR(J+1)
5190 XSORT(J+1)=TEMP1\NBR(J+1)=TEMP2
5200 NEXT J
5210 NEXT I
5240 RETURN
6000 REM ### COORDINATE ENTRY SUBROUTINE ###
6010 INPUT# DEGREES;DEGREES
6020 IF DEGREES<>INT(DEGREES) THEN 6100
6030 INPUT# MINUTES;MINUTES
6040 INPUT# SECONDS;SECONDS
6050 DEGREES=DEGREES+(MINUTES/60)+(SECONDS/3600)
6100 RETURN
7000 REM ### DATAFILE LIST SUBROUTINE ###
7010 PRINT
7020 PRINT" AVAILABLE GBDATA FILES:"
7030 PRINT" WORLD.DAT"
7040 PRINT" METROBOS.DAT"
7050 PRINT" NORTHAM.DAT"
7060 PRINT" CARIB.DAT"
7070 PRINT" CENTSTEAM.DAT"
7080 PRINT" EURO.DAT"
7090 PRINT" AFRO.DAT"
7100 PRINT" ASIA.DAT"
7110 PRINT" PACIF.DAT"
7900 PRINT
7990 RETURN
9999 REM *** EXIT ***
10000 CLOSE #1
10500 GO TO 12000
11000 RESUME 2467
12000 END

```

Sample Geodata File Generator (one needed for each data file;
lines 105-108, 1005-2000 are common
to all data file generator pgms.)

```

5 REM >>> WORLD.DAT DATA FILE GENERATOR <<<
10 PRINT\PRINT"WORLD.B2S"\PRINT
105 REM Data is in the form of Location name, Latitude(deg.),
106 REM Latitude designator (N or S), Longitude (deg.),
107 REM Longitude designator (E or W)
108 REM 48 data lines per file is 'normal' configuration
110 DATA "USA / MA - Boston",42.36,"N",71.063,"W"
120 DATA "USA / NY-New York City",40.67,"N",73.83,"W"
130 DATA "USA / LA - New Orleans",30,"N",90.05,"W"
140 DATA "USA / IL - Chicago",41.83,"N",87.75,"W"
150 DATA "USA / CA - Los Angeles",34,"N",118.25,"W"
160 DATA "USA / WA - Seattle",47.58,"N",122.33,"W"
165 DATA "USA / HI - Honolulu",21.32,"N",157.83,"W"
170 DATA "CANADA / ON - Toronto",43.7,"N",79.42,"W"
180 DATA "CANADA / NF-St. John's",47.57,"N",52.68,"W"
190 DATA "COSTA RICA - San Jose",9.98,"N",84.07,"W"
200 DATA "CUBA - Habana",23.12,"N",82.42,"W"
210 DATA "PUERTO RICO - San Juan",18.48,"N",66.13,"W"
220 DATA "BARBADOS - Bridgetown",13.1,"N",59.62,"W"
230 DATA "VENEZUELA - Caracas",10.58,"N",66.93,"W"
240 DATA "BRAZIL - Natal",5.77,"S",35.25,"W"
250 DATA "BRAZIL - Rio de Janeiro",22.88,"S",43.28,"W"
260 DATA "ECUADOR - Quito",0.23,"S",78.5,"W"
270 DATA "ENGLAND - London",51.5,"N",0.17,"W"
280 DATA "FRANCE - Paris",48.87,"N",2.33,"E"
290 DATA "ITALY - Rome",41.88,"N",12.5,"E"
300 DATA "SPAIN - Madrid",40.42,"N",3.72,"W"
310 DATA "PORTUGAL - Lisboa",38.73,"N",9.13,"W"
320 DATA "AZORES - Flores",39.4,"N",31.2,"W"
330 DATA "GERMANY - Langenberg",51.37,"N",7.12,"E"
335 DATA "SWEDEN - Stockholm",59.333,"N",18.05,"E"
340 DATA "CZECHOSLOVAKIA - Prague",50.08,"N",14.42,"E"
350 DATA "USSR - Moscow",55.75,"N",37.7,"E"
360 DATA "GREECE - Athens",38,"N",23.73,"E"
370 DATA "ALGERIA - Algiers",36.83,"N",3,"E"
380 DATA "SENEGAL - Dakar",14.63,"N",17.45,"W"
390 DATA "NIGERIA - Lagos",6.45,"N",3.47,"E"
400 DATA "ANGOLA - Luanda",8.83,"S",13.25,"E"
410 DATA "SOUTH AFRICA - Cape Town",33.93,"S",18.47,"E"
420 DATA "KENYA - Nairobi",1.28,"S",36.83,"E"
430 DATA "ISRAEL - Tel Aviv",32.08,"N",34.77,"E"
440 DATA "INDIA - New Delhi",28.62,"N",77.22,"E"
450 DATA "CHINA - Beijing",39.92,"N",116.42,"E"
460 DATA "JAPAN - Tokyo",35.67,"N",139.75,"E"
470 DATA "AUSTRALIA - Melbourne",37.817,"S",144.967,"E"
480 DATA "TAHITI - Papeete",17.53,"S",149.57,"W"
500 DATA "ENDDATA"
1000 CUTP$="WORLD.DAT"
1005 OPEN CUTP$ FOR OUTPUT AS FILE #10
1010 PRINT "OUTPUT FILE = ";CUTP$
1020 PRINT #10,CUTP$\REM TITLE
1500 READ QS
1510 PRINT #10,QS
1520 IF QS="ENDDATA" THEN 1600
1530 READ T,AS,LO,OS
1540 PRINT #10,T
1545 PRINT #10,AS
1550 PRINT #10,LO
1560 PRINT #10,OS
1570 GO TO 1500
1600 CLOSE #10
2000 END

```

(end of article)



Four Illegal Takeovers Of KXRQ Result In \$20,000 Fine

The maximum possible fine of \$20,000 was handed out to Cate Communications Corp. by the FCC last week for illegally transferring control of KXRQ/Trumann, AR to other parties four times over a five-year period without Commission approval. Cate is also accused of entering three separate agreements to sell KXRQ, but failing to file any of the contracts with the Commission, as required by FCC rules.

Here's the sequence of events, as outlined by the FCC, that caused the fine:

- November 1978 - Without notice to the Commission, a sales contract is executed to sell the station to SWR Enterprises, owned by Bobby Stotts, K.W. Webb, and James H. Roberts. They operate KXRQ until the summer of 1981 and invest \$148,000 in the station.

- June 1981 - MaBe Communications assumes control for a period lasting just under two years, and puts \$52,000 into the property. Again, the FCC is not told of the arrangement, or that a purchase agreement is reached.

- April 1983 - ADA Broadcasting Corp. begins operating KXRQ for three months without making a Commission filing or revealing the existence of a sales contract.

- June 1983 - SWR resumes con-

rol and fails to report the change to the FCC.

The Commission wasn't swayed by Cate President and 90% owner William Cate's defense that the sales contracts were executed by SWR's Webb under "power of attorney" from Cate. "Licensees are responsible for the acts of their employees performed within the scope of their employment, especially those charged with the management and supervision of the licensee's station," the FCC reiterated.

Misleading Contest Proves Costly

In other action, the Commission has fined WDLF/Panama City, FL \$10,000 for "willful and repeated" violations of the rules against deceptive contests. The agency charges that WDLF conducted a "Window Sticker" con-

test that included "false and misleading promotional announcements with respect to the amount of prizes awarded."

Other sanctions imposed by the FCC recently include:

- A \$4000 fine for KTYN & KBQQ/Minot, ND for failing to enclose its tower inside a locked fence, failing to perform equipment proof-of-performance measurements, having an unlicensed operator on duty, and not logging weekly EBS tests.

- A \$3100 fine against KCUZ/Clifton, AZ for lack of a locked tower fence, having no operational EBS system, failing to make a public inspection file available, and not having a licensed operator on duty.

- A \$2000 fine for WYNU/Milan, TN for originating over half of its programming 25 miles away in Jackson, rather than in its city of license.

- A \$500 fine for KGMN/Kingman, AZ for airing lottery information.

Paul Swartzman

Two sides differ on why plans aborted for news-talk station

By Karen Kenney

Daily News Staff Writer

The summertime birth of Los Angeles news-talk station, KKAR-AM (540), will not happen because of zoning delays and changes at the station's network-supplied news service, management of KKAR's parent station, all-jazz KKGO-FM (106), announced Wednesday.

But KKAR's departed news director said internal conflicts, an identity crisis and fears over how the new hybrid format would fare against existing competitors — all-news (KNX-AM and KPWB-AM) and all-talk stations (KIEV-AM and KABC-AM) — aborted the KKAR concept.

In a written statement, Saul Levine, KKGO's president and general manager, said, "It is no longer deemed feasible to present an all-news format" at KKAR.

Levine cited a "structural change" in the news service of Cable News Network (CNN) for KKAR's decision to abandon news-talk in favor of a news-big band format. He added that zoning conflicts could delay construction of the 1,000-watt station's half-dozen 500-foot towers in Hesperia until fall.

But former KPWB news director Ed Pyle, who has been planning programming and interviewing news staff for KKAR since last January, said Levine's commitment to the news-talk format began to wane this spring. The station was to have gone on the air May 1; the new on-air target date is now Jan. 1, 1988.

"I knew the (original) target date was not viable," Pyle said Tuesday night. "I worked independently, moving along in my planning, but as I continued working on employees and program

services, I realized nothing was being done. Not a spade of earth had been turned on the transmitter building and towers in Hesperia."

Pyle said Levine decided to dump the news-talk format without consulting Pyle, who believes a major reason for Levine's change of heart was the failure of Oakland's fledgling KFYI, an all-news station that was formerly black-urban KDIA. KFYI folded this spring after only five months in the news format.

Pyle argued unsuccessfully that the proposed Southern California station would not have suffered the same fate. Besides operating in a larger marketplace, KKAR would have had a smaller professional staff than did KFYI.

Pyle said Levine put him on "indefinite, unpaid leave of absence effective immediately" on April 23, after Levine met with KKGO's sales and operations managers and a consulting engineer from Washington, D.C.

Levine did not return repeated telephone requests for comment. His assistant, Isobel Lucas, confirmed Pyle is on indefinite leave, but said she was not authorized to comment on any of Pyle's other statements.

"The dream of a second viable news-talk operation in this town is dead — certainly at KKAR," said Pyle, who considered KABC to be the closest match to the envisioned station. Pyle said Levine considered making KKAR a news-jazz or news-comedy station before settling on the news-big band format.

"I wanted to make KKAR an issues-oriented, celebrity-oriented talk format with serious blocks of news in the morning, afternoon and news throughout the day," Pyle said. "What a waste."

FCC Adds New AM Power Levels

by David Hughes

Washington DC... The FCC has approved a rule change that will allow some AM stations to operate at intermediate power levels.

"Stations which had been unable to increase power sufficiently to reach the next specified power level would be able to seek a lesser increase in power consistent with applicable interference protection requirements," the FCC said.

For example, a 2.5 kW station that experiences interference problems and cannot increase to 5 kW might be allowed to increase to an intermediate level, such as 4 or 4.6 kW, according to FCC Attorney Jonathan David.

"We're giving them greater latitude," David said.

Previously, the Commission only authorized AMs to operate at particular "discrete" power levels that corresponded to their classes: 0.25, 0.5, 1, 2.5, 5, 10, 25 and 50 kW.

The new rule applies only to stations seeking to increase power, not to those existing stations that want to reduce their power, according to David.

If the owner of a 5 kW directional station with a six-tower array wanted to cover the same area by operating with a more economical 4 kW and a three-tower array, the new rules would not apply, David said. The theoretical 5 kW station could drop to the 2.5 kW level.

Once a station goes to the expense of installing a complex directional array, there is little point of "going backwards" to save some money by putting out less power, he said.

The Commission said it will phase in the plan during a three-year period in order to "minimize the burden in processing applications."

For the first three years, the FCC said it would allow stations to submit applications for power increases of 50% or greater, in order to "focus on applications offering the greatest benefit."

However, the FCC will make exceptions for applications that conflict with power increase applications on "cut-off" lists. Those cases would require a minimum 20% increase, the FCC added.

After the three-year period has pass-

ed, the Commission will mandate a minimum 20% power increase on all power-increase applications. The FCC will not accept any applications specifying less than a 20% power increase because such a low power would yield "little public benefit," the Commission added.

We're giving these stations greater latitude.

For example, a power increase of 20% would yield less than a 9.5% increase in radiation and less than a 5% extension of the station's signal, the FCC said. However, an increase of at least 50% would bring at least a 22% gain in radiation and at least a 20% extension of the station's signal.

"This process will spread out applications over a longer period of time and will limit the process to applications which can improve service to the public," the Commission said.

Most AM transmitters, which now operate at discrete power steps, can be adjusted to the intermediate levels, Harris Product Marketing Manager Joe DeAngelo said. For example, a Harris 5 kW transmitter can cover the range from 5.6 kW down to 100 W.

Rick Carpenter, of Broadcast Electronics, said that most transmitters are FCC type-accepted for operation at a variety of frequencies within a particular range. Some transmitters may have to be retuned if their power levels are changed, he said.

Bill Harland, of TTC/Wilkinson, said his firm has been providing transmitters to stations in other countries where intermediate power levels are common. He added that a relatively inexpensive modification kit is available for Wilkinson transmitters.

Regarding another issue contained in the same docket, the Commission said it will raise the maximum power from 5 to 50 kW for Class III AMs in Puerto Rico, the Virgin Islands, Alaska and Hawaii.

However, the Commission cannot implement the rule until the US completes bilateral negotiations with Mexico and negotiations on the North American Regional Broadcasting Agreement (NRBA).

In support of the power increase, US broadcasters in the Caribbean region complained that they suffer interference from stations in the Dominican Republic and Venezuela because of the good propagation characteristics of water.

Answering these complaints, the FCC emphasized that stations choosing to increase their power must comply fully with all interference protection requirements under international agreements and FCC rules.

The FCC said the new rule reflects recent international agreements, including the 1981 RARC, and bilateral talks held in 1984 with Canada and Mexico.

The Commission said it also wants to study a proposal for higher powers at Class IV stations on six local channels in Puerto Rico, the Virgin Islands, Alaska and Hawaii.



-18-

UPI - Indianapolis 5-19-88
 RADIO HARTI BEGINS SPANISH-LANGUAGE BROADCASTS FROM THE UNITED STATES TO CUBA ON MONDAY... THE 83RD ANNIVERSARY OF CUBA'S INDEPENDENCE FROM SPAIN. SENATOR PAULA HAWKINS OF FLORIDA SAID SATURDAY THAT THE STATION WILL SHOW "IT'S A LOT LESS EXPENSIVE AND OFTEN MORE EFFECTIVE TO FIGHT COMMUNISM WITH TRUTH INSTEAD OF WITH BULLETS." IT'S NOT KNOWN IF FIDEL CASTRO WILL JAM THE BROADCASTS.

-18-

Labor Day Weekend - August 31, September 1 & 2

Welcome to RI '85! Lots to see and do in one of the East Coast's premiere resort and vacation areas: Newport with it's mansions, beaches and history. Nearby attractions like the Mystic Aquarium, New Bedford Whaling Museum and the Battleship Massachusetts! Not just an NRC Convention (as if that wasn't enough!!), but a good family vacation. The convention will be held at the Ramada Inn, 144 Anthony Road., Portsmouth, RI; 10 minutes from Newport.

Name: _____ Phone: _____

Address: _____

City: _____ State/Province: _____ Zip/PC: _____

Number in room: _____ Roommate(s): _____

Single \$55; Double \$65; (check one)

Arrive (time/date): _____ Depart (time/date): _____

Choice of meal: Chicken _____ Beef _____ (check one)

Registration fee: \$18.00 This includes the banquet, with your choice of Boneless breast of chicken OR Top Round of Beef. If you wish to prepay the registration fee, send a check to me for \$18.00, payable to NRC Convention 1985

Reservations at the Ramada will be held to 6:00pm with no deposit, held all night with pre payment for the night. Room deposit is payable by check to RAMADA INN. Send this to ME, and NOT to the Ramada.

AUCTION ITEMS may be sent to:
Craig Healy
Clement Associates
246 Pine St.
Seekonk, MA 02771

You may qualify for group rate for your air flight. Contact for info:
Terry's Travel
1515-A Newman Ave.
Seekonk, MA 02771
617-399-6290

Mention the NRC Convention.

RI '85, a SWAT TEAM production!!!

Craig Healy.....66 Cove St.....Pawtucket, RI.....02861.....



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

Greetings to all NRC'ers, as we head towards summer in this, the third of the monthly issues of DX News. It's human nature to complain more than to say nice words about things around us, so this installment of Musings highlights positive comments about the NRC and DX'ing. It's a credit to our members that we have a nice section of comments praising the better aspects of our hobby, too. #28 (deadline June 29) will include comments about the future of 1605-1805 kHz ... and it's interesting that a number of articles have been printed about this subject since I proposed it as a Musings theme ... #29 (Aug. 3) will feature Musings from first-timers; #30 (Sept. 7) will feature DX memories from NRC'ers, and #1 (?) we'll try to establish as the re-intro issue from now on. I'm open to suggestions for future themes, although I'll most likely repeat some of the ones I've used in V-52. Now ... on with it!

Tony Fitzherbert - 356 Jackman Ave. - Fairfield, CT 06432

Well, the end of another DX season - what little there was for me due to other activities. DX was enhanced by WNAB-1450 going silent on 4-1, although WCTC down in New Brunswick and WNAS-Springfield, MA dominate that frequency. WNAB is expected to remain silent for at least three months, while the station is sold - and the new owners get set up. Fairfield County gained a new AM'er, though: WREF "The Reference", in Ridgefield - a most enjoyable station with lots of BEB, NOS, and old, mellow rock. Veries are in from WMB-1000, with a v/q; WVIC-730, v/q; WJTO-730, v/q; WNAS-1450, v/l; WOA-850, v/q; WXPX-1300, with a CM, and other stuff; and a v/l from WACK-1420, noting that my report is the most easterly they've received - noting that they are 5 kw/500 watts, v/l, very directional 5 days, and directed N at night. Frank Merrill has supplied a map locating all Toledo stations for my trip, now scheduled for the third week in July - which, I hope, will get numerous profiles, plus photos of station studios and XR locations. I'm especially looking forward to seeing WVOI-1520, plus the various unique facilities in Detroit - and also would enjoy meeting Frank - before heading to Chicago for my annual railroad trip via Amtrak. Missed a few Muses - my present three favorite radio stations - WCBS-880 for news; WEN-1050 because I like csw; and WREF-850, because I like that blend of music, too. Complaints about the NRC - none, except that I would like to see more articles in DX News about radio station operations, and fewer of these highly technical articles with diagrams that look like maps of the Paris Metro, or the little diagrams of trolley and subway routes on the back of German railroad tickets. Of course, that's one opinion - some of you guys probably even understand those diagrams, hi! I would like to see a Station Profile or history in each DX News, but that's Mike Knitter's department. And hats off to Mike and Sue - editing the magazine and keeping us happy is no easy task! Yes, I do hope to get to the RI convention, wife in tow, also my two kids, for one day, anyway. Ann will be interested to note that there are many of us that excuse ourselves at sunset because "IT'S TIME TO DX". 73's for now!

Richard E. Berg-Andersson - 47-11 48th Ave., #1 - Woodside, NY 11377

Hi, fellow medium-wave "freaks". Well, I'm closing the books on the 1984-85 DX season and a number of milestones. First of all, I finally edited my logs, paring about 5 or 6 logs covering all aspects of my radio hobby into two - one for domestic broadcasting (MW, FM, and TV) plus CB, which I keep in ELT; and the second for Ham radio monitoring (whether above or below 30 MHz), SW'ing, utilities, and the public service bands, which I keep in UTC. The logs date back to October 1969 and include copious notes/stories of weird incidents heard over the air, etc. but really aren't that thick, as I streamlined the earlier entries from the days when - as a budding DX'er - if someone sneezed over the air, I'd log it even if I couldn't get a tentative ID. I was surprised to find that some 4 out of every 5 loggings from my "early days" were useless, needless, or outright garbage! My Medium Wave totals at this QTH, where I've lived for over 5 years (although I've only been DX'ing seriously for a year or so) is 24 states, 4 Canadian provinces, and 3 Caribbean countries using only portables with battery power and the built-in antennae. CHN-PEI on 1190 got me my 4th province and I was surprised to get WVAQ, R. Relej-PR this winter. Biggest surprise catch, though, was KAAY-AR on 1090, heard in WBAI's null on a cheapo "Airline" multiband portable which I thought was near death! Daytime totals, so far, come out to 7 states. As one can see, there's room for improvement, but it's a start. I must say that NRC (oh, oh - here comes the plug, hi) and DX News were a great help. I'm now a member of 8 radio clubs of various stripes; I regret that I had not been interested in clubs earlier - especially NRC. I did not hesitate one moment in sending a check a few weeks ago when my renewal notice came in the mail and I look forward to my second year as an NRC'er. 73's for now.

Doug Beard - 604 7th St. N - Springville, IA 52336 CST

A lot of good stuff in this year's April Fools issue - I think my favorite was CUSA-1340 - "to those wishing the truth about America". What a neat slap at Radio Marti! Next favorite was the NRC shortwave station. If we were only that rich. By the way, who

was that "staffer"? She could make me forget at least some of my marriage vows, hi! (Leave it to Mike to choose 'em, hi! -pls) KMAP-1370's move to Center City isn't just a move to the suburbs. Center City is 35 miles and 1 1/2 counties away. I've done little DX this season.

Most of my "radio time" recently has been spent on log updating and keeping my CB sets running. Prize catch of the season has to be KLIM-1120, hrd 11-13-84 4:48-49 pm with CO ads, c/w, weak/fair with KMOX tightly mull'd. More recent stuff ... 3-23: Noted new call for semi-local KTSS-1580, ex-KORR with "Adult Hit Radio". KTSS is an obvious play on KKGX-1170's old call, KSTT. Still 3-23: noted unkn KPIS-900 with "It's 5:16 [pm] from KPIS", good; 7:00-7:21 pm old friend CWGS-960 with ID, rock, "96 AM stereo", fair, steady, nearly alone; newie KUUY-870 7:22 pm with wx, c/w, again from 7:58-8:00 with c/w, ID "KUUY Orchard Valley - Cheyenne", o/u WML, sounded like day power/pattern, late with the switch? 4-6 at in-law's in south-central Iowa: new station KWFN-840 4:17-4:23 pm, sx, movie ad (no, not "sex movie ad", ya hoosers) (I needed that! -pls), PSA solicitation "mail to AM-84 Box 8 West Point, NE", c/w. Ground wave reception, weak but readable on portable, keep forgetting to try for it in Springfield, hi. 4-19 home again: 10-29 pm unkn WMSO-640 with quick ID between paid REL programs, fair, o/several others; 10:39 clear ID from unkn WQHK-1380, "The Hawk", o/u 25 others. Strange, rapid fading 4-19 and 4-20 eves on Chicago clears and a few others. Total heard = 737.

Rod O'Connor - USCG Air Station - CG Box 1467 - Kodiak, AK 99619

Well, greetings all. It has been a while since I last contributed, so here's a little tidbit for the June issue. Another Alaskan AM'er is now on the air. KCSY-1140 Soldatna took to the air 4 April, and is on the air with an Adult Contemporary/Oldies format. Power is 10 kw, U1. Also it is in AM stereo using the Kahn system, making it Alaska's 3rd AM stereo station. I talked with their announcer early this morning, and he seemed happy to hear they made it to Kodiak at almost exactly 200 mi. He said they would like to get reception reports, and their address is KCSY - P. O. Box 1869 - Soldatna AK 99669. Phone (907) 262-6494. Go for 'em! Other Alaskan AM news. KINY-800 seems to be all-night with a satellite format, MoR/AdCon. Local KVOK-560 to move to new XR and tower in June. Will be leasing a huge unused 400-foot tower from the Coast Guard at our Communications station. It will be interesting to see how it works out, as they will be right next to the CW xr's on 470 and 500 kHz which both crank out up to 5 kw. Already the CW bleeds over AFRN-960 when high power is used, so I'm afraid they will wipe out KVOK-560 if they have to go out on high power. KVOK to remain 1 kw, but should put out a much better signal, as the site is in a swampy area, and the tower is almost a half-wave for 560, compared to their present one-eighth wave tower only a mile from my house at Spruce Cape. Just spent 30 days travelling to New Zealand and Australia. Talked to DX'ers Arthur Cushman in NZ and Harry Weatherly in Australia. Unfortunately, I did not get to meet either, as is so often the case while on vacation, as I was running short on time. Didn't do any DX'ing. However, I will probably go down there again next year. One final item. New CP is being applied for Galena on 910 at 5 kw. (Galena is 275 mi west of Fairbanks on Yukon River.) Speaking of Fairbanks, KGDX-1300 is still dark. Positive comments on NRC - I like most of the columns, especially AM Switch by Jerry Starr. Lots of info there which either never makes Broadcasting magazine, or if it does somehow end up there is so terribly misspelled or screwed up it's useless. Also like Bill Hale's new Graveyard Column as well as the varied comments and reports in Musings. I'll probably stick around for awhile. Enjoy the summer.

Tom Farmerie - 62 Sunrise Ave. - Grafton, MA 01519

Peeves and gripes, hoo boy, can't pass up that as a Musings theme! Number one is apathy of members. I realize of course that many of us have family and job priorities as well as other hobbies and duties filling up our 24 hours each day, but my thoughts go back to when Ray Edge and his family turned his living room into a print shop each week during the DX season. On top of that, Ray did all the bookkeeping, membership processing, and was a holder of umpteen conventions in Buffalo that were centered at his own home. My recent request for participants in a Direction Finding project netted one volunteer, Dick Truax. Surely there must be others out there with loops that have GCB pointers? I find it hard to devote time to doing my little bitty column, so I sure appreciate the dedication of the hard-core who churn out the regular columns like Jerry, Dave, Chuck, and Paul, as well as the work of Mike and Sue, Dick, Ken, and Ron. Mark Connelly's sharing of his technological developments is another example of this unselfish dedication. I kind of like SPEEDX's concept of "full membership" privileges being EARNED by a certain amount of participation in the club, even if just by sending in some loggings or a Musings now and then. On another front, tests of 5-watt WATA - 906.4 Athol, MA have commenced, look for it on your dial at the convention, special commemorative QSL's will be awarded to correct reports of reception during the festivities.

Bob McCoy - 4618 Cooper Ave., #6 - Lincoln, NE 68506

It's time to take a break from tornado warnings and static on the ECB to Muse a little. I thought that the April Fools issue was one of the best for a long time; some of the technical articles especially impressed me, as I do have a TRF that could stand upgrading. I also found something of interest in the "real" part of that issue. I hadn't been constantly monitoring 840 to see when KWFN West Point, NE would be coming on, so the report in DDXD of a test having been monitored in North Dakota was a real piece of news. I set the issue down, went to a radio, and tuned in the loud and clear signal of KWFN. They

are semi-local and seem to play older pop hits, mixing Petula Clark, Kenny Rogers, Air Supply, et. al. Hours of operation are 6 am - 6 pm (CST); I assume that the signoff is keyed to LSS in Louisville, especially as their signoff message refers to skywave interference from WHAS. Mailing address is Box 8, West Point, NE 68788. I haven't gotten around to reporting them, although Neil Zank did so and received a prompt VL. Otherwise, there have been some DX nuggets. 4-10, unkn WMOB-1360 Mobile, heard testing with dial tone and ID by appropriate drawl, at 2:50 am; nostalgia! 4-17, CKOY-1310, Ottawa, at 2:40 am, with singing ID; and WFBC-1330, Greenville, SC, at 3 am, with Talknet and local rx and wx. Neil Zank and I are still trying to solve a mystery on 540, which he has already Mused about. It seems to be carrying the all-night CBC French network and is very faint. I've heard CUSB change to day pattern at 5:15 am EST and become audible with MYL format; I've also been blasted by CBK signing on. If this is CBEF, then why so weak? Any help from our membership is appreciated. Well, time to mail this and go back to dodging the weather. 73's ...

Verification Highlights

John R. Malicky - 995 Shadycrest Rd. - Pittsburgh, PA 15216

Here's the latest pledges for my Mid-Winter QSL fund-raiser (New stations underlined). Feb. 15, a good contribution after many unsuccessful DX tries, from WOKJ-1550 Jackson MS with a nice night c/m, drawn from mail responses (shaded in gray) of counties from CO to FL as the GM mentioned in a letter they send less than 500 watts my direction; no wonder it's hard to hear them! 2-16: A small contribution with a v/l from WKYR-1570 Burkesville, KY on PSSA of less than 250 watts. The SM also mentioned hearing from NJ, WI, MN, and other NE states. A record 2nd highest gift in one day (5) on 2-19 from WCVL-1550 in (with new owners Composite Communications, Inc.); WLWL-770 NC - letter, map, sticker; WALS-770 Buchtel, OH pronounced Book-toll, air date 12-9-84 with "thank-you" letter and bs; KUSA-550 MO - nice package including v/l, b/s, c/m - with comparison coverages of rivals KMOX and WIL, and copy of all Gannett properties; and finally a letter from KCRY-1370 Caruthersville, MO mentioning they were proud to be my 1200th stn. The responses continued to roll in with 4 on the 21st from WOH3-730 Shelby, NC - b/s, c/m, and letter mentioning my reception with 302 PSSA watts and "...pleased to be right in there..." among 3 stns; WGTG-540 Cypress Gardens, FL with a smiling sun on a v/q that is exactly the same as the KS-95 Sun in Met center North Star games (if any of you follow hockey); a follow-up with a very nice profile and folder on the new programming of BBC-type mx (ex-c/w) from WIBG-1520 Ocean City, NH; and from local WLTT-950 Steubenville, OH, a nice v/l, c/m, and media package as the signer also helped me to write to WEIR-1430 WV, so 9 in the days, not bad! 2-22: KBOT-1350 Cabot AR - c/m and letter from the owner mentioning "...finding it quite exciting ... to be heard in PA!"; 2-23: c/m and letter thanking my interest in WVoice of Somerset County (990-PA) and in particular the AM side from the CE; 2-25 - c/m and letter from "Black Adult Radio" KCUJ-980 one of Shreveport's top-rated stns; third try nets a contribution on the 26th from KCNS-930 Espanola with a rate card, c/m, b/s, a pen, and v/l mentioning CNS operates on its own 6 am - 6 pm and simulcasts after 6 pm and weekends with CJNR (a repeater stn and first in existence) - CJNR (the 2nd) - CNS (3rd, airdate Oct. '77) hoping I'm "...in good health and spirits." 2 on the 28th from WMC-790 Memphis - promo sheets and v/q filled out, but no signer, and Tampa Bay's oldies WBOB-1040, b/s and v/l mentioning now using 5000 n/d; March 6, 2 xlt varies from Dave Schmidt and WQIQ-1590 with a map, sticker, and letter and; WZAL-1540 with a v/f, map, a list of Atlanta area stns and an "official" diploma-like QSL from the 1984 "Station of the Year" (small-market category) in GA, Happy DX'ing to you, Dave and James; thanks for your donations! 2 more on the 9th from WFIX-1000 Jenkins, KY and f/up CPOS-560 Owen Sound, ON - v/l, c/m, sticker, another pen and profile, fact sheet. 3-11: WMBE-1510 Boston on SMN (?? -pls) - sticker and v/l "...always happy to hear from our DX friends.". 4th pitch finally nets a contribution with letter and map from WABQ-1540 Cleveland; 3-16: WSBY-960 Salisbury, MD - AM/FM maps and stickers and map-type v/q "...always interested in receiving ... reports"; 3-26: WMIX-940 Mt. Vernon IL - c/m, card, and note from CE saying "...it's always nice to know who's listening!"; and finally KHOG-1030 Farmington, AR c/m, business card, U. Arkansas baseball sked, pack of matches (my first from a stn), and letter correcting my report, saying thanks for my time as their switch from 1140 occurred 1-31-84 and 24 hours on 3-9-84. Totals 686. 73's.

Paul Swearingen - 7310 Ensign Avenue - Sun Valley, CA 91352

My contribution to positive comments about the hobby and NRC ... Thanks to all, again, who include nice comments with their Musings, and also to those who include constructive criticism. Both are equally appreciated. My hat is off, also, to those NRC'ers who always seem to be there when a question needs to be answered and come up with the right answers. There's a lot of personal correspondence aimed only at helping others which never gets publicized and should be ... thanks, guys and gals. Best of luck to Mike and Sue with their new endeavor ... you have a lot of guts to embark on your own business, what with publishing this bulletin and ANARC-85 staring you in the face. Should we bring canned goods to the NRC auction, hi! Speaking of the RHODE ISLAND event ... possible job changes and other, obvious, circumstances will probably conspire to keep me away this year,

but it's too early to know what will happen yet. Not much AM DX here ... but I've erected a new TV antenna + amp and rotor to help me with my second love, TV DX. A new VCR (Sanyo 4670) helps with that, too. However, this city has to be the worst in the world for Ch. 2-13 DX! Is anyone interested in trading airchecks of their unusual or vintage programming for my current locals plus a few others? C-90's preferred. 73.

Geir Stokkeland - P. O. Box 160 - N-6390 Vestnes - Norway (pm 4-17; rec'd 4-25)

Long time not into Musings; reintro: Age 25, free-lance comms operator, currently on contract with Norway's Weather Service, on the island of Hopen, 76° 30' N 25° E north of Norway. (You gotta be kiddin'; it's COOL up there! -pls) My third Arctic DX location after Jan Mayen and Bear Island. The CB season has had good periods, but overall status is only slightly above average. Month of March has been xint for North American DX; seasonal total from your continent as of today 459 stations heard; best catches WHIT-1550 WT (daytimer) and CBQR-1160 NWT (40w). Latest five new ones last two days have been KLTZ-1240 MT, KDLR-1240 ND, CHNL2-1340 BC, KYOT-1400 MT and KTOE-1420 MN. My other favorite DX continent is Asia; totals this season are Japan 38 (53 NHK, 29 private, incl. relays at 100w, plus one FEN, Iwakuni-1575), and South Korea 25 (17 KBS, 5 MBC, 3 Christian). I haven't got around to counting China yet, hi. Otherwise, 8 AM's from Hawaii plus 4QD-1548 and KSAI-936 Saipan CM from the Pacific, the latter is rare enough to be one of my best catches for some time. In Norwegian radio, a high number of local community broadcasters were licensed in August, 1984, and now are in the process of getting under way. Many are in economic trouble due to non-commercial financing not allowed; it is probable such financing will be allowed next time licenses are up for renewal. In Finland, a number of straightly commercial FM's were licensed earlier this spring. In Denmark, the number of local community broadcasters has reached 100. In Oslo, Norway, new AFRTS outlet "AFRS Oslo" at 103.5-FM is doing well, drawing high ratings from government NRK and established community stations. NRK itself recently installed a new xmtr at Vigra-630, upping power and efficiency much compared to the old, worn-out rig. Anyone heard my JWSVA c/s on the bands? Please do, and send me a note ... DX to all, 73's!

Ernest Cooper - 5 Anthony Street - Provincetown, MA 01657 (617) 487-9337 ELT

New varies are in from WNRS-1350 NH, WNRS-1510 (?? -pls), CKAN-1480, WSKE-1040, WQPM-1300 TEST. Recent dialings: MM 3-11: Somebody on 1370 u/WFEA with Dr. Rubin, unID. Also on 1150; is this WDEL, Dave Schmidt/ On 1220, WGAR and CKOW both seemed to be off; an FFC was on top. UnID TT'er on 1280, 2:20-2:31 off, with no ID. Wed. 3-13: With no Boston on 1150 WRUN was on top with Talk Net; maybe they're the ones with Dr. Rubin. Sun. 3-17: WJJD-1160 was off today; new WMEK-1150 takes over that spot; is AN, ROK oldies, trying to sound like the old WMEK-1510, in the days of Woo-Woo Ginsberg, and claiming "The old WMEK is back." Something on 1035 this AM, too much WBZ-1030 to tell who, but it was all talk, m and f. MM 3-18: WKPE-1170, local daytimer, on "RS" at 1:09 and still on at 3 am; I called 'em; they said they were testing and using the FM audio. WRAS-840 was TT'ing at 2:24. Tue 3-19: At SSS, needed WMTV-1170 heard just briefly as they signed off at 6. Wed 3-20: A weak TT'er was heard under the 910 usuals, seemed to be west of here. Sat. 3-23: Report out to new catch CKAN-1480 "Sea-Can", csw mx; they're now AN-6. TT on 1600 at 1:22, likely neither WRNL nor WUNR. Sun. 3-24: Dr. Rubin noted on 1340 and 1380 around 2 am. MM 3-25: Off today were WTOP-1500, WKBW-1520, CKLM-1570, WBT-1110; only KOMA on 1520, no Toledo. TT on 580 at 2:29-2:43+, unID. Wed. 3-27: Unn WSRF-1580 storming in at 12:34 am with oldies. WNSC-1450 topped that spot at 12:49. Classical mx u/WOR-710 at 1:51, with applause at 1:52; I think this is the Venezuelan. Offs today were WBAL, WTOP, CKLM, and WRN-1050. XEFJA doing nicely with "Música la Pedra" on 1560, AN. And, for the first time in two years, KFI-640 was rolling in like in the good old days "when I was young and handsome." Yes, 'tis April Fool's Day, and no, I'm not fooling! They were in again on Wed. 4-3, but this time with needed WWLS under them, for a report. Wouldn't you know, my first new Oklahoma in a decade, and it'd have to be a "W"! Sun. 4-7: Unn WJIM-1580 testing at 12:54 am. Tue. 4-9: Someone whose ID sounded like WEFM on 1580 with hymns, ex-WIZY I think. CU next time - Forward - March! P. S.: WOGY-850 has returned to WEAT calls!

John H. Rose II NJBQ - 26015 Thomas - Warren, MI 48091

Decisions, decisions, decisions! No one I have contacted, talked to, or pondered deeply with has resolved that greatest of the Great Philosophical Questions of Eternity, nor even shed light on the subject. Which subject, did you ask? Oh, yes. Why is it that when a woman runs her fingers through a man's hair, she always misses the spot that itches? Especially when the fair damsel is much adored. /// The weather here is more like early summer than early spring, and I'm ready for fall to arrive. (You can't put the heat on me! I've paid my taxes this year!) A fan of summer I'm not. Work on the yard and gardens has started and I ponder the idea of pruning a few branches of this 40-foot tall weed in the backyard (a weed is anything growing where I don't want it to) and running a wire up the trunk for an aerial for both snagging signals out of the ether and coupling signals into it. Certainly it would be descrete and that's important here). Balancing this off is the proximity to the power line and the near 100' coax run. Since large parts of the lawn really should be dug up anyway ... My back aches and the chiropractor's eyes light up

at just the thought of all that work. Now if whoever planted that tree had planted it in the other corner of the yard, there would be far fewer problems any way you look at it. I also have the question of how to put up a 55' "longwire" across this 50' space and be discreet about it. That would give me two "longwires" at right angles to each other, and if I run two coax leads down along with a vertical, I really could have triple diversity reception potential. Decisions, decisions. /// Speaking of diversity reception, there has been a series of articles of interest in *Ham Radio* magazine. The first was discovered in a trip to the library, a December 1971 article by John Schultz, page 12, on tying the automatic volume control circuits of two receivers together so that the one with the stronger signal turns down the volume of the weaker one to reduce excess noise. Though all these articles are primarily for high freq listening, I see no reason they couldn't be applied to CB listening. The footnotes on this piece are sparse and not very enlightening.

Contrast this with the second article of interest by John Nagle in November 1979, page 48. This is an excellent article on diversity reception which includes its history, benefits, types, and some ideas on implementation. The idea of frequency diversity is of direct interest to anyone who DX's any AM signal. A scheme is presented for independent demodulation of the upper and lower sidebands of a double sideband reduced carrier transmission. This got exciting when I got the instructions to my single sideband converter CV 157/URR which contains a very sharp filter (20 cycles per second bandpass at 3 dB and 80 CPS at 60 dB!) to suck out an AM carrier and demodulate the sidebands completely independently. The government and the commercial carriers have the need to make sure that a signal which must get through, does. This is twice as good as exalted carrier techniques on one sideband. It is also almost exactly the same system as Nagle charts out for a simple diversity system in the article, although I have no idea whether he knows about the CV 157 or not. The footnotes are voluminous and are well-summed up in the article (I checked). Curiously, he does not list the 1971 article! For those with the R390/URR, the IF out jack is intended to be used with the CV 157, combined into radio sets AN/FRR-40 and AN/FRR-41. I do not know anything about the FRR-40 and 41 and if anyone out there can shed light here, it would be welcomed, especially if they have the operating manual. "Any problems with this setup?" you ask. Yeah! First, I paid \$12.50 for my CV 157 at a hamfest, and while it is complete, it has every bad symptom in the book. I got what I paid for. Of course, I did try feeding it with the \$20 392. The \$140 392 was being fixed at the time. Second, it's big at 19" x 15" x 16", has 44 "thermionic devices" requiring a noisy fan, pulls 250 watts out of the wall, and has an actual weight of "approx. 104 lb" per the manual. (Did you think I was kidding in the 4-1 issue? Only a very little.) The third article is also by Nagle in April 1980, page 34. Here he describes the only (probably) dual diversity receiver with 2 electrically independent receivers in one box with one tuning control. Hook up 2 antennae to the Hallicrafters DD-1 and diversify. Very interesting. /// I've reached a convenient spot to stop for awhile so I don't hog all the space available. See you next issue.

Radio Roundup

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

Greetings all ... Paul Harvey starts off this Muse. His contract with ABC seems to be up in the air pending the outcome of talks with Capital Cities. This popular broadcaster is considering an independent move. Statistical Research lists Harvey as reaching an estimated 33 million listeners a week. He commands a large salary, too, and Capital Cities is known for running a tight ship, not prone to signing contracts with big numbers attached ... The Meredith Corp is selling off WGST, in Atlanta, and the Georgia Radio News service to a subsidiary of Jacor Communications ... The latest Arbitrons are out in Philadelphia, and All News Radio KYW leads the pack, with WPEN and WCAU following up on the AM side ... PITTSBURGH FANS IN A FRENZY - how about that for a lead line, John Malicky? Bob Prince is returning to play-by-play chores for the Pirates. He was fired by the team in 1975, having served the team for 29 years. He will return to KDKA on May 3 ... While I am on the subject of sports voices, Al Ciraldo, the voice of the Yellow Jackets of Georgia Tech (baseball and football) for 31 years might be getting an early retirement. Tech's games have been moved from WGST to WCNN ... The Country Music Association cites that there are currently 3,146 radio stations around the nation programming country mx full- or part-time ... WNBC-AM has gained the rights to the N. Y. Knicks and N. Y. Rangers games, replacing WNEW-AM as the carrier for the Madison Square Garden Network. WNEW claims incompatibility of programming, MSG claims too many dead spots in the listening area ... Mutual Radio will begin a new segment of political commentary called "Viewpoint", commencing July 15. The alternating commentators will be Howard Baker and Mario Cuomo ... The Radio Advertising Bureau is replacing its "Radio is Red Hot" campaign with "I Saw It on Radio" spots, which will begin airing in May ... KCMO, in Kansas City, is looking for a play-by-play voice for the Chiefs games. Wayne Larivee is headed to Chicago to take over the chores with the Bears ... Wagontrain Enterprises has purchased Drake-Chenault Enterprises, the California-based radio consulting firm ... On a related international matter, Afghanistan has set up a TV network, to air Soviet and Domestic programs. The network, built with Soviet aid, will, when completed, consist of 8 stations. There are currently 4 stations operating. Prior to

this, TV had been seen on a limited basis in the Kabul area only ... My mind took another journey into the past last week while reading the reproduced letter in the DXN concerning the old WPE call signs. I held the call sign WPELCEV in the early sixties. I even did some checking, and sure enough, found an original QSL card, too! Back in the late fifties, I used a Zenith 2-band (AM/SW) portable radio which I had acquired at a church tag sale for \$2.50. It looked like a small suitcase, worked on AC, and on batteries, if you could find the old, bricklike power sources, with plug-in connections. Weighed a ton, in comparison with today's portables, but it did the job for me. It sure was a different type of listening back then, no digital readouts for quick reference, but rather a plotting method, identifying the stations above and below the frequency to be logged and maybe even placing a piece of adhesive tape over a portion of the dial to "calibrate" it for future use ... (part two) A recap of the Capitol cities/ABC deal in Variety indicates the following changes are in the offing (AM): Cap Cities will let go of WPAT, KLAC, and WKSW; ABC will divest itself of WFLB, WABC, KABC, and KGO ... In addition to his nightly talk show, on Mutual, Larry King can now be seen on the Cable News Network (CNN) replacing Sandi Freeman ... On the subject of CNN, their radio network is up to 160 affiliates and is now programming 18 hours a day. It is now programming its own newscasts, instead of being just an audio feed from their television sister ... Owen Spann has returned to his talk show duties on WABC, following a contract dispute and a reduction in this time slot ... The return to the airwaves on KDKA of Bob Prince has yielded increased spectators in the stands and prompted a mini winning streak for the Pirates ... The POC has approved the purchase of WFLN, in Philadelphia. In July the station will change its format and calls to WDMT (Delaware Valley Talk) ... The Children's Radio Network, which premiered on WEXI, last December, has added KAAR (Portland, OR) and KSNJ (Phoenix, AZ) to its list of on-air affiliates ... WMB, in Kansas City, is undergoing a complete overhaul trying to regain its former status in the market. Their playlist (ACR Format) is being pared down, the newsroom has been reorganized, many supportive staff members have been axed, DJ's have been switched around, and a big promotional blitz is planned ... On April 21, New Orleans' oldest radio station, WSMB, celebrated its 60th anniversary ... WMBE-AM, Boston, has lost its case in court and will have to make amends to its former employees, via their pocketbooks. They caused quite a commotion last fall when they fired their entire staff ... WCBM, in Baltimore, is airing the Wall Street Journal Report ... Ken Garland has recently celebrated his 20th anniversary with WIP. I still remember him from his Hartford (CT) radio days ... Call-in contests are causing a giant jam-up of the telephone circuits in the Tampa-St. Pete area, as stations hype it up for the spring ratings race. Ma Bell is concerned ... WOOL has signed up to carry the Columbus Capitals' soccer games ... CJAD will continue to carry the Montreal Concordes of the CFL. I thought it odd for the station to announce that Ralph Lockwood would do the play-by-play, as it is reported that he has never before done football commentary ... So much for now.

Roger Winsor - 311 W. Springfield Ave. #4 - Champaign, IL 61820 CST

Well, the DX year is winding down for another season. As I look over my veries and new loggings, I notice one thing: most are on clear channels, with only one regional logging, WQPM. My verie total is now 1191 with the following additions this month of April: WXSX; WBDX who sez they have a CP for 10 kw DA, but stn is being sold and will probably go 5 kw non-DA; KHOG with sked given as 0600 (0700)-0100; WIMS vq; WFGN and WSAF-1180 Box 680 Summerville, GA 30747, is RKO, Gr csw. First day 4-1, I logged 4-9, the first time I heard them. DX as follows, with total at 2919 heard. 3-22: 1030 was DX'ed in the AM, logging WXSX 6:18 to 6:40 with REL, when lo and behold WBDX took over from 6:48 to 6:45 with cluster ads, then KHOG from 6:45 to 7:09 fadeout to unn KTWO. That's what I call cleaning up on one frequency! All have verified with interesting v/l's. Nothing until 4-4 in the pm when a good log on WIMS-1420 with super local WWS splashing 6:15 to 6:32 pwr chg. 4-7: logs on WMSO and WLEO both 640, neither has yet vfd back. WFIAS-840 noted non-existent in day, weak at nite, but now is back to usual self. 4-11 in the AM WFGN-1180 in 5:38 to 5:50 fade to WSAF. 4-18 WSAF-1180 in 6:38 to 7:00 for log. That pm unn WMIN-920 with MYL type, first time I've hrd them in hears. Local WIMS is very unhappy with 1 kw nite. Does WMDR-1260 still exist? I remember when they and the Mexican were all to be heard at nite, now 1260 is a jumble, as are most other regional frequencies. WDGX has been noted occasionally at nite, but I see where their 50 kw CP got denied for nites. KJEL-750 logged also on 4-15 from 6:45 to 7:10, letter sent, nothing back yet. They have been heard again since, non-ID as regional radio K-Jel. Locally WRTE-1460 and WDMN-1490 have picked up the Cubs this year. 4-27 tonite had WZZK-610, ex-WSGN with csw and constant call letters repeated often. Also WSRF "Surf 16" o/u WEAM, GA, with old songs like MYL. WEAM still Christian. WMLS-640 now ROK playing the biggest hits of all time. So they say. WSDM-1130 in, is on RS again with REL; "AM-1130"; no ment of 97.7 FM. I have noticed some stations in central IL are going off at 6 pm even though they could be on until 8 pm CDT. These stns are WPOK-1080, WLEL-1140, WIZZ-1250, WPRC-1370, WRTE-1460. They leave nice open channels, but SSS is not very good as of late, very NU with SS alone on 1520 on my Superadio II. I don't have any idea who, lots of static, too. Nothing new since 5-5 when at 11:35 pm CDT WMIN-1030 hrd ending rx, wx on 1030 WMIN, then csw mx, gone. Only 500 w I believe, so a good catch, even though not enuf for a report. WXSX also hrd that nite for first time on nite rig. Total hrd stns at 2920 for awhile. Still no answer from KJEL for their 2nd day of broadcasting,

maybe they've been swamped with letters on such a good frequency. Anything known on WNDZ-750 Portage, IN CP? I see WJUN-1180 got a 1 kw CP, will be more of a pest now. Nothing on WUES-1100 Harrisburg, IL; will keep you posted as should be a regular daytimer, so will WLMV-1030 Vernon Hills. KBOA-830 still at 1 kw yet, when they go 10 kw that will be lots different. Hrd here about once a week in SRS particularly. No more lines; 73's.

Mark Connelly - WALION - 30 William Road - Billerica, MA 01866

I had a great Sunday afternoon visit with Neil and Laura Kazaross on 14 APR. This included visiting Ogunquit Beach (a wide, flat sandy beach more like those on Cape Cod than the beaches in other (rockier) parts of Maine). A tour of the "Beverage farm", or more accurately "Beverage forest", was held. Neil must have a total of over a mile of wire strung out there in the pines. Later in the day, a session at the R-70 was in order. There is nothing like a coastal phased-Beverages installation for snaring long-haul medium-wave DX. Stations from North Africa and southern Europe boomed in well a half-hour or so before sunset, although Brazilian and Caribbean conditions were mediocre. I brought several pieces of homebrew equipment for evaluation; these included a phasing unit which will eventually be owned by Richard Wood in Hawaii. An Arabic program heard on 585 kHz turned out to be Spain, rather than Tunisia. If you hear Arabic on one of the Spanish channels, check Spanish-station frequencies which run in parallel to the frequency being monitored. Up to this point, I hadn't heard languages other than Spanish being transmitted from stations in Spain. The visit to the Kaz "estate" was concluded that evening with a real "down-Maine" seafood dinner at a local restaurant. We'll lose a real top-notch TA DX'er when Neil moves to California. WXSX-1430 (Medford-Everett-Boston, MA) has been broadcasting 24 hours a day since March (or earlier). No one seems to have reported this fact in the DX press. That is not surprising, however, as its night signal is pitifully weak. It sounds like 500 watts or less. Here in Billerica, about 11 miles northwest of WXSX's transmitter, it suffers severe co-channel skip interference, primarily from WENE in Endicott, NY. Unless it's a severely (skip-killing) auroral night, looping or phasing (of WENE) is needed to receive WXSX in the clear. Even as close to WXSX as Belmont (about 4 miles), there's sometimes enough "background chatter" from various skip stations to render WXSX unsuitable for casual listening by the general public. The fact that the programming is automated Music-of-Your-Life stuff probably is the only reason they are on at all. No station could afford to pay a staff of live air personalities if its coverage area was so small. Receiving WXSX's puny night-time signal beyond the immediate metropolitan Boston area is certainly an interesting challenge for DX'ers. Although the station is non-directional, the signal goes farther to the southeast because of a salt water path. Ernie Cooper down in Provincetown shouldn't have any trouble hearing WXSX on an auroral night, unless some Colombian or Venezuelan is burying it. As the warm weather approaches, I'm offering my annual advice to take your radio on vacation with you and to report what you hear. 73.

Wendell Ford - 625 E. RRI - Westville, IN 46391

Hello, from tiny-town America, here is my third Muse since joining the NRC in March of '84. Just before vacation I got my card notifying me that my subscription to DX News was up, so I quickly sent off my renewal payment as I don't want to miss an issue of DXN. I just got back from vacation yesterday 4-28 and as always I took my DX paraphernalia with me and here are the everchanging changes in AM radio as of 4-20 to 4-27-85. On 1130 WCOM Brazil, In is back on the air with new letters; they are WSDM-AM with csw mx and CNN news. WMMG-1140 Brandenburg, KY's format is csw. Here is a strange reception. On 4-25 1170 had WMB Donelson, TN between WKOM and WJUN. So are they on 1170 day and 1160 night? The mystery continues ... WJUN-1180 Newburgh IN says they have 100 watts. They switched their format to MOR; their slogan is "The Pulse of the tri-state". WPPR-1300 Terre Haute has changed its format to csw. WYER-1360 Mount Carmel, IL has changed its format to MOR/Goldies. And finally WJCD-1390 Seymour, In has changed its format to MOR. Till next time, 73's.

John Foster - Box 339, Rt. 5 - Travelers Rest, SC 29690 (803) 834-4375

Boy, has it been a while since I last Mused. (Yeh - where you been? Hi -pls) I am still in radio and work at WANS-FM 107.3 (Greenville/Spartanburg/Anderson). I am starting my fourth year at WANS-FM as a weekend personality (DJ) after being at Greenville's original WOOK for over 7 1/2 years. I am also teaching school as a substitute, so I can keep myself occupied during the week. I have been sending airchecks of my show to radio stations having a CHR format and have received some good and many non-responses. Radio LASER-558, the pirate ship, did offer me a job. They would fly me overseas and pay me \$10,000 for one year's work. I turned them down only because I would have to leave my family (wife and two kids) here in the states. If they want to pay me 25 grand and six free trips back to the states then I might take it. (Better get a large life insurance policy in the deal, too ... there have been several offers to sink LASER's ship -pls) LASER says they have over 4 1/2 million listeners every day, but a radio ship at sea is a very expensive operation. I sent headquarters an article printed in Radio and Records about LASER-558; they may use it. How many of you like Steve and Garry on WIS? I was sad at first to see Music Radio give up their all-music format, but Steve and Garry are outstanding. They don't care who they talk

about or what they say, but most of the time they are very entertaining. They also give away a free pizza each night to the most distant listener. Just drop them a card and you may win but do it soon because when Capital Cities takes over ABC, they may kick them out. I do a lot of DX'ing, and will update you soon on my activities. I use a four-foot loop with PET preamp with an RF-2900 and also love my old National NC-183. This year I have saved a Collins R-390 from the junk pile (The ghosts of Marconi and Fessenden thank you! -pls) and am trying to get it to work; more on that soon. Best DX to all.

Bill Townshend - 4500 Conn. Ave. NW #901 - Washington, DC 20008 (202) 966-8046

Time for a re-intro. I'm 54, single, and live with my 82-year-young stepmother on the top of a nine-story yellow brick (not road, hi) apartment building in upper NW DC, 5.6 mi/9 km NW of the Capitol Dome. This place is the pits as far as any serious FM/TV DX'ing is concerned because of its close proximity to several FM/TV xrs, which means an image jungle on the FM band. I work as a computer programmer for the National Weather Service (don't blame me for the screwed-up wx, hi) on the third floor of an eight-story pile of steel and concrete (DX buster as far as AM goes; FM is not affected) in Marlow Heights, MD 7 mi/11 km SE of the Capitol Dome and next door to the WYIR-1560 (104.1 on FM) studios, which have been open for several weeks. The studios are 100 meters east of my office. WYIR's xrs are still in La Plata, MD, 22 mi/35 km to the south. The full-time oldies stations around these parts are WYST-AM-1010, WYST-FM 92.3, WKYR-AM and FM, WQSR-FM 105.7, and WMJR-FM 107.7. I plan to be in Beertown for several days during the ANARC convention. We've just come off a bone-dry April, the driest ever (0.05 in) and second driest month ever (only Oct. 1963 with no rain was drier) but we got a good rain last night (Amen!). Now I do my SSS DX'ing after dinner since we are on DST. Some DX is possible on SSS especially to the NE and the lower Great Lakes area. Enough for now. Time for SP. 73's de WPT.

Pete Clarius - 1583 Castleton Ave. - Staten Island, NY 10302

This is not your usual Muse but I must get it off my chest. I know nothing can be done about the 1985 NRC convention but whenever the 1986 convention is held please give some concern for those of us who prefer public transportation. There is no way that I can get to Portsmouth, RI from NYC. The nearest Greyhound or Trailway bus goes would be to Providence or Pawtucket and then? It was the same thing at Louisville. When I got to the bus terminal it was a costly taxi ride to the motel and of course back. I was looking forward to renewing friendships at this convention but I shall have to wait until 1986. I thought the WQSW new calls for Allentown, PA were familiar so I went thru my files and they were used by the now defunct Albany NY station that was on 850 kHz some years back. (All right, NRC'ers, would someone passing through NYC get in touch with Pete and offer him a ride to the convention? Perhaps someone flying in from out of state could share a rental car with him. You pick the method, but I don't want to see anyone left out of the convention because of poor connections. Anyone else need a ride? Let us know in a Muse! -pls)

Jerry Starr - c/o WHOT Radio - 401 N. Blaine - Youngstown, OH 44505

Dan Hagggett's remarks in the V52, I26 DXN refer to the existence of the same call (WQGY) in two different locations. Newer members might not realize that the POC made this legal some time ago. A station may have the same call in different markets as long as both stations have common ownership. Both WQGY FL and WQGY-FM MA are owned by well-known sportscaster Curt Gowdy and the call is, in fact, an abbreviation of his name. KCBS is another case in point; it exists in both LA and SF, one as radio and one as TV. There cannot be more than one call PER MODE, i. e. two AM's cannot have the same call, nor can two FM's or two TV's. And, of course, when the call is duplicated among modes whether in the same market or not, the suffix "FM" or "TV" becomes part of the license call. Some may not realize that the POC has been giving commercial broadcasters six-letter calls for years. "WHOT-FM" is a six-letter call, for example, since the "FM" is an official part of the call. In most publications the call is expressed as WHOT-FM, in that it is the actual call, or WOOD (FM) with the parenthesis indicating that the station is FM but that the "FM" is not part of the call. All of this is now moot so far as WQGY is concerned. The WQGY in FL recently changed back to their former call of WEAT as noted in the last AM Switch. As for DX, it is non-existent. The past few weekends I've turned on the rig to be greeted by a 40 o/9 noise level, and I'm lucky to be able to hear the locals. This will change; summer conditions are sometimes surprising quiet so don't give up on the hobby just because of a little noise. 73 and good DX.

Jack Woods - 4073 NE Morning St. - Corvallis, OR 97330

Recently at an auction of surplus equipment on the OSU campus I bought a low-frequency receiver. It was built by National, and from the tube lineup dates back to about 1940. It tunes from about 15 kHz to 640 kHz in six bands. It has no indication of type or model number except the letters RBL stencilled on the inside of the cabinet cover. The parts layout indicates three tuned radio frequency stages followed by a regenerative detector and an audio amplifier. There is also a switchable very narrow audio filter. The

set seems very sensitive. It may have been originally used for military communications but I am reasonably certain that it was not designed for the military but rather for commercial radiotelegraph communications. Like other National receivers of the period it is mechanically complex and solidly built - weight 80 pounds. The cabinet exterior has the traditional black crackle finish. Dirt and rust spots indicate years of unheated storage. Inside it is like new. I would much appreciate hearing from anyone who has any information on the set - and especially a schematic. Best wishes to all for a great summer.

Jeff Lockwood - 2765 W. Tharpe St. #121 - Tallahassee, FL 32303.

Time for a re-intro: 26, single, and an assistant engineer for Southern Research Institute, working at Gulf Power's facility near Sneads, about 45 miles west of here just below Lake Seminole at the Florida-Georgia border. I've been here since mid-December, following an eight-month job search that netted but one expense-paid interview trip (Monsanto, St. Louis, in September), and even then I couldn't escape the Cuban assault, DX-wise (e. g., R. Rebelde-620, o/WSUN during sunrise bandscan). With just two fulltime locals, Tallahassee is quite a change from the Tampa Bay area. At that, WTAL-1450 is only fair at night at my location on the west side of town (it comes in much better over Group W Cable on FM, hi.) Most Bay area stations are easily heard here, exceptions being WCFB and WDAE. WGNB-1520 can be heard when local noise levels permit. My favorite DX combination is the ICF-2002 and the Radio West Shotgun loop, which still works despite some abuse. I'm looking forward to seeing World Service Broadcasting's new SW operation NXE on a trip through Alabama in May. More as it happens.

Richard E. Wood, Ph. D. - P. O. Box 5074 - Hilo, HI 96720

It's great to have another active international DX'er within two miles to compare notes with and keep me on my toes. In fact, since his arrival here, Chuck Boehnke, formerly of San Jose, has already logged an Alaskan I haven't heard. Chuck is largely responsible for my selection of Hawaiian Paradise Park, the rural subdivision southeast of Hilo, where I, and now also he, live. He's currently using the Hammarlund HQ-180A which I bought from NRC'er Ernie Wesolowski at Colorado Springs last Labor Day and which I can't use since it can't be converted to 12VDC. Conditions here remain good, with continued low noise levels and fine reception from south of the equator (Chile, Argentina, Brazil, NZ, Australia) and close to it (Sri Lanka, India, Malaysia, Ecuador). On the other hand, I haven't logged a single new U. S. station for a month. I sit on 1180 trying for VOA, to get FL, my most-wanted state, but just keep on hearing other things, like WYOR-1180 Maturin; not bad, anyway, as Venezuela isn't easy here. (Florida wasn't easy even in Kansas, Richard; try for WSUN-620, WIMP-1150, WDAE-1250, WWQ-1430, and perhaps WGIO-540 or WGBS-710 @ 50 kw ND during hurricane alerts, all dependent upon your locals -pls) One split which is tantalizing me is CHVZ2R. Atalaya, El Milagro, 815; it's just 500 watts and though I've ID'ed it, it's hard to take a report on because of weak signals. I finally logged LRAL; for many, it's their first Argentine; for me, it was just #4. WWL is less of a pest on 870 at this season. I've been sitting on 1310 since KFYI (a good station) went silent, but about all I get is KAAM-TX and the fairly new R. Recuerdo, Bogotá. If the silencing of KFYI had occurred, say, two months earlier, I might have gone to town on 1310. At this season the graveyards are less of a jumble and I might get something new on them. KPUR-970 goes off the air at 7:30 pm local Sunday evenings; I can't complain about that. Chuck B. and I are planning a small DXpedition to the land I own in the South Point area to check levels of Honolulu stations in the early evening there. He suspects they will be much louder than here in the Puna District, due to less horizon blockage. South America should be superb there. If there are interesting results, I'll write an article for DXN. Aloha.

WOZW, WOZI Face Revocation Or \$40,000 Fine

Saying it has "serious questions" about whether Allan Weiner is qualified to remain a broadcaster, the FCC has ordered a hearing on whether to revoke his licenses for WOZI/Presque Isle, ME and WOZW/Monticello, ME.

The Commission alleges that Weiner ran an unauthorized station on 1616 kHz in Presque Isle, using the calls KPAC and calling itself "Private Radio North." Further, Weiner is accused of refusing to allow an FCC employee to inspect WOZI's main studio in Presque Isle, rather than its city of license; and improperly broadcasting directly to the general public on a Remote Pickup Base Station. Jg EIR

Remote Pick-up Freeze

The FCC will not accept any applications for remote pick-up broadcast stations proposing operation on 1606, 1622, and 1646 kHz.

The action anticipates a proposed rulemaking that would delete these frequencies for remote pick-up use, according to the Commission.

The FCC plans to expand the existing 535-1605 kHz AM broadcast band to include 1605-1705 kHz. Broadcast use could start by the end of the decade, the Commission said.

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RADIO NEWS



Fairbanks AM station off air

Fairbanks - AM Radio station KHGX is off the air as its owners complete arrangements to sell it to an unnamed buyer. The 1,000-watt station left the air last Friday, some 18 months after it began broadcasting in September 1983. Station officials said the buyers have asked for confidentiality.

Case of arson. Fire officials have determined that arson was the cause of a fire at the facilities of WPMU-CBS in Harrisburg, Pa. The fire, set at about 1:50 a.m. on Wednesday May 1, destroyed the AM and FM transmitters. The FM station was off the air until the afternoon of May 8 and the AM transmitter is not expected to be operational until some time this week. According to program director and operations manager Lee Crawford, police have no leads in the case. He estimated the cost of the damage to be "well over \$100,000."

JW BDC/AM 5/13

VERIFICATION SIGNERS

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

Catch "AM Interlude" on HCJB Saturday nights.

540	WGTOg	Dick Hart CE	JM	1230	KADAl	Roger Harris GM	PT
	WYNN1	Charles Burati PD	KJ		KFLRbs	(only NO VERIE!)	RW
550	KUSAlmbz	Bill R. Schmidt ESu	JM	1270	WXYTq	Irv Laing CE	ERC
560	CFOSlmbz	Rick Moss AM	JM		WDLAlmh	Philip G. Vessey CE	EH
630	KSRLR	John Walk GM	PT	1290	KOILl	Jerry Weist CE	PT
610	WGRlR	Warren K. Small CE	KG	1300	WQPMf	Todd Rust CE & MAYOR! lots	EH
	WSLCl	Reynold Hawk	KG		WSYDl	Bruce Hill P/M	EH
	WVAIl	Don Berry PD	KG			Ed Ashburn A	EH
640	KFIq	Marvin Collins CE	KG	1310	WBFdlm	Brenda Eberhart TrfM	EH
650	WSMq	u/u	PT	1320	KGNRqs	J.Q.Baker CE	RW
680	WCEBm	J.Lewis	BH	1330	XEBOlB	Alejandro Martinez Duran	RW
710	WOZWlm	A. Weiner	ERC			Subgerente	RW
710	WDSMqb	Phil Makl CE	JM	1340	KCNN1	Paul Cinnamon CE	PT
730	WPXfM	Patricia Jones PromO	ERC		WNCOf	Wayne A.Fick CE	KG
730	WOHSlmb	Steve Greene CE	JM	1350	WLOUl	Neal O'Rea	KJ
770	WLWlLmbz	Robert E. Perkins P	JM		KBOTlm	Douglas O. Schnieder O	JM
	WAISlB	Dave Norris	JM		WMRS1	David E. Bodge PD	ERC
774	JOUBqz	u/u	WH	1360	WNAHmz	Hoyt Carter PD	JM
810	CHQRf	Mel Hoyne TD	WH		CJVLlmbz	Paule Genest PD	BH
820	WSOsq	John H.Battison DoE	GM	1370	WPAZl	Robert E.Eppehimer GM	BH
830	Belize q	A. Cheong ChBCOfficer	RW/BH		KCRVl	Danny Nelson PD	JM
850	KlCYls	Jim Brewer SM	RW	1380	WACBl	Kimberly A.Bowser OfM	BH
	WYDERm	J.E.Gray CE	BH		WSIZlm	Al Graham O	KG
	HJKCln	Glora Vencino Sec'y	BH	1390	WMPOpu	John E.Keer Jr M	PT
	WKIXlmbz	Gary Liebisch CE	JM	1400	KTMCl	Ed Montray GM	JM
870	WPRQlm	Dave Murray GM	KG	1410	WMMLq	J.C.Burns CE	KG/RW
880	WEEGL	Tony V.Childrens GM	JS		WSCWl	Jerry Newcombe PD	KG
900	CKTS1	Ted Silver PD	BH	1440	WLXnf	Allan C.Godwin CE	KG
910	WPFBq	Walter E. Biggs CE	KJ	1480	CKANlmb	Susan Sharpe TrfM	ERC
	WKEQl	Don Lewis GM	KJ	1490	KBURl	Bernie Garcia CE	PT
	WAKOl	S.Kent Lankford M	KJ		KVENlbt	Dow Jones CE	RW
920	WPTXlm	Lee Dravis	JM	1510	WMRElB	Elizabeth A.Schulenberg	PI
	C.R.O Machala- Ecuador lz	Jose Ugarte Aguilar Gte.	RW		KCCVl	Cindy Hampton	ERC/JM
	CK20lbc	Glora Gasperini	RW	1540	WZAL-	Certificate Jim De Van	PT
	CKNSlmbz	Debbie Hopkin	JM			(best verie in my collection-WH)/ERC/JM/	
950	WLTlTmz	Sherry Hansen PD	JM	1540	WABQlpu	Michael Gallagher VP	JM
960	WSBYqmb	Bruce Wharton ACE	JM		WNIOLmb	Gary Zocolo PD	JM
970	WRKNup	June Harris Secy	KJ	1550	WCVLL	Gary Havens GM	JM
	WDAYl	Steven J.Boucher CE	PT		WOKJlmb	Dick Lange GM	BH/JM
980	KCJlJm	Franklin M.Ridenour Jr VP	VP		WMOOF	Wibur H.Goforth GM	PT
	WSUBlmbz	Richard J.Williams CE	BH	1560	KHBRl	Rick Bailey	PT
990	WVSClm	Harold P.Showman CE	JM	1570	CKTAl	Peter Brown DoE	WH/PT
1000	WIFXlmb	Don Mussell CE	JM		CHLOfm	Rick Roi CE	BE
	WIQT1	Wa R. Statham	BH		WKYRl	Rau Mullinix M	JM/BE
1010	CFRBlq	Clive Eastwood VP/E	PT/RW		WLBQl	Jim Niemann	BE
1030	WBZq	u/u	PT	1580	XEDMlmbz	Lai. Guillermo Medina P.	BE
	KHOGl	David T.Nolan	JS			Gerente del Interior	BE
	WBDXl	John U.Almon Contr.E	JS		KGAF1	James O. Miller E	PT
	KBSMl	Glora Lupkey P	KJ		WIZYlBz	C.Jeff Nicholson Jr.GM	KJ
1040	WSKEqm	u/u	ERC		WEAMlm	C.Jeff Nicholson Jr.GM	ERC
	WHBOlB	Ed Pendino E	JM		KNIMl	Kelly W.Martin Pub Affr	KJ
1050	CFYnf	R.Hiderley P/GM	GM	1590	WQIQlmb	Dave Schmidt CE (NRC?)	W
	WROSl	Loretta C. Whitley TrfM	KG			and lots of other people.....	W
1070	WSRGlm	Terry Sayle SlSM	JM		KBBQlB	Cindy Feeses Trf M	RW
1090	WXBKl	Bobby King O	KJ		WONXl	Dave Allen Pub Affr	KJ
1100	KKLLf	Gail Stubblefield O	KJ	1600	WUNIlz	Bob Forster OpD/PD	KJ
1110	KEORl	James Cunningham CE	PT	1620	WDX	Pirate Mike Christian & Pirate Jack Slater	BH
	WGHWlm	David McGrath CE	ERC				BH
1140	KATTl	Paul Gleiser VP/GM	KJ	1622	KPF-941	A. Weiner O	J.
	KS00l	Gerry Van Loh CE	KJ				
1160	WTYN1	Dave Sheely OpM	KJ				
	WAMBq	Bill Barry O	KJ				
1170	WRRTl	Barry Cyr E	BH				
1170	WAVSbx	u/u	BH				
1180	VOAq	Judith Sweet	BH				
	WFKBl	John Stolz GM	KG				
1220	WGARq	U/U	PT				
1230	KADAl	Roger Harris GM	PT				

HAP PAGE (Handicapped Aid Program)

Sam Barto, 47 Prospect Place, Bristol, CT 06010

Your bids and Orders for Direct Sale items go directly to the Address above, not to any of the NRC Addresses. Make your Checks and Money Orders out to "HAP". Do not send CASH thru the mail. This page brought to you as a Public Service of the NRC.

HAP BID ITEMS: ITEM #846: CHICAGO CUBS BASEBALL - 2 reserved tickets for the August 29th game between the Cubs and the Atlanta Braves-great!!! #847: WJMC station balloon, m/c. #848: WGNP-TV station balloon, m/c. #849: CKXL golf tee (2" long) red, yellow. #850: CKPG decal (3x6") m/c. #851: BRT "Belgique" cloth pennant (4.5x7.5") very colorful! #852: Radio Beijing "Glowm" cloth pennant (6x11.5") m/c. #853: Radio Beijing "Floral" cloth pennant (6.5x11") m/c. #854: Radio Beijing "Logo" cloth pennant (6.5x11") m/c-nice! #855: Radio Beijing large plastic litter bag (11x18") red, white. #856: Radio Monte Carlo QSL card (4x6") m/c. #857: Radio Espana (Balearic Islands) sticker (6x6") brown, yellow-rare. #858: Radio Espana (Balearic) QSL card (4x6") m/c. #859: Radio Cadena Espana metal badge (1.5" cir) black, yellow. #860: SWF Radio (FRG) "Landstudio" sticker (5" cir) m/c-beauty! #861: SWF Radio "Naturlich" sticker, odd shaped, m/c. #862: Radio Buch-arest 6 different slides of Romania. #863: RAE (Argentina) QSL card (4x6") blue, B&W. #864: WFCFS 11 page program guide, 10 watt station! #865: CFPF "I Love CBC Radio" sticker (4x12") red, white. #866: WVMF T-Shirt (S-M) "Cup Run", 2 tone blue. #867: Radio Monte Carlo sticker (2.5x6") white, red. #868: Radio Korea 1988 Olympic QSL card (4x6") m/c. #869: Radio Korea-KBS cloth pennant (5x9") m/c-very nice! #870: ADXR bulletins, 1984 complete. #871: L'ONDE bulletins, 1984 complete. #872: ASWLC bulletins, 1984 complete. #873: CIDXC bulletins, 1984 complete. #874: NRC bulletins, 1984 complete. #875: LMCA bulletins, 1984 complete. #876: IRCA bulletins, 1984 complete. #877: ODXA bulletins, 1984 complete. #878: VHF-UHF bulletins, 1984 complete. #879: NZRDXL bulletins, 1984 complete. #880: DX POST (Australia) bulletins, 1984 complete. #881: MVDXC bulletins, 1984 complete. #882: SPEEDX bulletins, 1984 complete. #883: NASWA bulletins, 1984 complete. #884: WDXC (UK) bulletins, 1984 complete. #885: EDXC bulletins, 1984 10 different. #886: KAZM pencil, black, gold. #887: KAZM leather coaster (4" cir) tan-super! #888: KBIF sticker (3.5x11") blue, white. #889: KFCG sticker (3x8.5") m/c. #890: GUIDE TO RTTY FREQUENCIES 1983 edition, 192 pages-excellent!! #891: Radio City (UK) old poster (8x9") red, white, blue. #892: Radio Vatican sticker in German (3x5") B&W, orange. #893: KUSF sticker "Skull" (4.5" cir) red, B&W-super! #894: CJVI pen, red, B&W. #895: CHQM pen, B&W-very nice! #896: CHQM pen, black, yellow-fine! #897: BBC "Paddy Feeny" large poster (12x16") m/c. #898: NHH 1985 50th Anniversary calendar-very large! #899: HCJB-FM sticker (3.5x8") B&W. #900: Radio Hallam sticker (1x12") m/c. #901: Radio Hallam decal (2.5x13") m/c. #902: BBC-WS "Globe" poster (12x16") m/c-nice! #903: Radio Luxembourg 2 different staff photos (6x8") B&W. #904: WVMF (Virgin Islands) sticker (3.5x5") blue, white. #905: Radio Earth sticker (3x12") B&W. #906: Radio New Zealand QSL card (3.5x5.5") m/c. #907: KALX Punk-Avant Garde program guide, B&W. #908: Red Rose Radio decal (5x5") m/c. #910: Viking Radio decal (3x20") m/c-super! #911: Radio Lancashire decal (2.5x11") red, B&W. #912: BBC Radio Stoke 24 pg. magazine, m/c. #913: KPBC plastic litter bag (7x12") blue, white. #914: ORF sticker in Spanish (4x5") red, B&W. #915: Radio Forth coaster (4x4") orange, B&W. #916: Club DX Quebecois sticker (3" cir) blue, white. #917: KYUU XL-poster of San Francisco, m/c-super! #918: CKUA "Access" large plastic litter bag. #919: WPLJ 4 different staff photos (8.5x11") B&W. #920: KBPS old B&W studio photos (8x10")-nice! #921: BBC Radio Cleveland 2 different staff photos (8x11") B&W. #922: BBC Radio Medway 2 different staff photos, (8x11") B&W. #923: Radio London-206 2 different staff photos (8x11") B&W. #924: Viking Radio spiral paper hat, m/c-unusual. #925: Radio London-206 large 16 page newspaper, m/c. #926: KHLJ "Cowboys" sticker (4x4") silver, white, blue. #927: KRBC "Texas" shaped sticker, m/c. #928: BBC Radio Birmingham staff photo (6x8") B&W. #929: KIKK 26 page newspaper, m/c. #930: KPFI 12 page program guide, B&W. #931: Signal Radio (UK) decal (2.5x9") m/c. #932: RCI 1973 "DX" QSL card (5x7") m/c. #933: RCI 1976 "Montreal" QSL card (4x6") m/c. #934: RCI 1974 "Cycling" QSL card (4x6") m/c. #935: RCI 1971 QSL card, (4x7") m/c. #936: WEZO station balloon, m/c. #937: CHQM-FM station pen, brown, black. #938: CHQM-FM station pen, B&W-nice! #939: WPLJ XL-poster "25 years of Rock History" fabulous!!! #940: WPLJ XL-poster of DJ with 9 different beauties!!! #941: WPLJ large Carol Miller, DJ poster, m/c-sharp! #942: Radio Peking "Tien An Men" paper pennant (5.5x10.5") m/c. #943: Radio Peking "Ching Kang Mtns." paper pennant (5x10") m/c. #944: Radio Peking "Girl with Building" cloth pennant (5x10") m/c. #945: Radio Peking "Kids with balloons" cloth pennant (5x10") m/c. #946: Radio Peking "Mtn. Village" paper pennant (5x10") m/c. #947: RFI cloth pennant (4x8") blue, white. #948: RFI cloth pennant (4x8") red, white, blue. #949: RFI cloth pennant (5x8") red, white, blue. #950: RFI "Bear and Logo" cloth pennant (6x9") m/c. #951: RFI "DX Club" cloth pennant (6x9") m/c. #952: REE cloth pennant (5x8") m/c. #953: DLF Radio (FRG) vinyl pennant (5x8.5") m/c-nice! #954: HRVC cloth pennant (6x10.5) blue, B&W. #955: Radio Budapest cloth pennant (4x6") m/c. #956: Radio Korea-1984 cloth pennant (4x8.5") m/c. #957: CJAT station pen, silver, B&W.

ADDRESS: Send your bids and orders for direct sale items to: Sam Barto, 47 Prospect Place, Bristol, CT. 06010 USA.

DIRECT SALE ITEMS: The following stickers/decals are \$.25 each or any five (5) for \$1.00. KRBA, TV-3, Radio Devon, RIE Radio 2 (yellow), KVEI, KASE, KING, KIPR, KTRH, KERV, KPAP, KYTK, NTV, KPFI, Super Wave Radio, DJ Radio, KOA, WHLY, WVMF, CKEG, CHNL, CHNL-FM, NAPE, WQYK, K-94, CJVP, WKAF, KILT, CJVI (cir) (hockey) (Marine), CHQM, WPLJ (hit) (Lewis), CKY, WFKB, CFSL, KEUK, KOGO, KRYS, Radio Monte Carlo, KTRM, KNAF, KWRM, KFAK, KNEI, CJATKORA, CJWW, KNAL, KSAM, KXTC, KXOR, KUHF, radio Bristol, NCAU, KLOL, KLEP, Radio SciU, KFYX, WNOR, CFCY (cir) (ID) (decal), Radio Evangile, WLUP (cir) (large) (blue) (B&W), KOME, WDIZ, KSEI, RBT (DX-blue) (DX-white) (logo-blue) (logo-white) (white) (blue), ERF Radio, Capital Milano, CFNB, BBC Radio 1, WONE, CKSW, CFCE, KITS, KEY-103, KQUE, CKCK.