

The magazine of the National Radio Club

SINCE 1933-

Volume 58, No. 26 - June 3, 1991 (ISSN 0737-1659)

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From the publisher ... First, congratulations to Wayne and Joan Heinen, who were married May 171

Lotsa good stuff this issue .. but some items will have to wait for more room in July - sorry!

NRC in Bridgeport ... Room rates for the convention hotel, the Holiday Inn. are a flat \$58 per room, and 50 are reserved for Friday through Sunday, August 30-Sept. 1. To reserve, call (304)842-5411 and mention the National Radio Club. The hotel's street address is 100 Lodgeville Rd. You'll need to reserve your room by June 30, or plan to sleep in the back seat of your car, as the hotels for miles around have been booked solid for all the other events that weekend.

DXGatherings ... The Association of Southern Radio Monitors will meet June 15 at Wingate College, Wingate, NC (near Charlotte), and the college has two R-5000 receivers for use by hobbyists For more information, send an SASE to Mike Hardester - P. O. Box 8159 - Camp Lejeune, NC 28542-8159 ... DecalcoMania will meet July 12-14 at Speedway, IN; an SASE to Phil Bytheway - 9705 Mary Ave. NW - Seattle, WA 98117 will get you more information.

DXChange ... Chris Cuomo - 670 Third Avenue - Verona, PA 15147 is still looking for Popular Communications magazines from April '89-August '90, plus September, 1983 ... Gary Lovegren 6617 Vienna Ct. - Citrus Heights, CA 95621-5440, (916) 726-0150 is offering his Radio Shack 12-655 TRF, with S-meter and Ceramic filters, plus Shotgun Antenna, in good condition, for the best offer ... Jay Smilkstein - 105 Manchester Dr. - Mt. Kisco, NY 10549, (914)666-6811, would like to buy a McKay-Dymek AM-5 tuner, for around \$50; it does not have to work ... Joseph Janata -25-10 21st St. - Astoria, NY 11102, is looking for a 4-ft. NRC loop "without unamplified type" ... DecalcoMania is offering the 2nd edition of Aircheck Arcade, which includes reviews of tape

recording equipment and tips for airchecking. and Care & Feeding of a Promo Collection, each for \$3.00 (U. S.), \$3.50 (U. S.) to Canada. Send your orders for these publications and sample newsletters (for \$1 25) to P O. Box 126 - Lincroft, NJ 07738

QSL Station of the Year" ... The SwedishDX Federation has attempted to improve QSL rates by making this award each year, and the 1990 award went to Radio Clube do Angra in the Azores "for their generosity in answering reception re-SDXF has requested NRC and other clubsto publicize this award "to encourage radio stations to answer reception reports and correspondence from DX-ers". Previous winners have been Radio Atlantida, Perú, and La Voz del Cinaruco, Colombia · 1989, Radio Impacto, Costa Rica - 1988; Sani Radio, Honduras - 1987, and Radio Botswana, Botswana - 1986.

### Remaining DXN Schedule, Vol. 58

Issue #	Deadline	Publication D
27	June 21	July 1
28	July 19	July 29
29	Aug. 16	Aug. 26
30	Sept. 13	Sept. 23

### DX Time Machine From the Pages of DX News

50 years ago ... from the May 17, 1941 DXN: Report from KCRC-1390, Enid, OK, that their 4-hour DX broadcast on April 16 netted 207 reception reports, the most distant coming from H. W. Newell, Arlington,

25 years ago ... from the June 11, 1966 DXN: Roger Winsor started a new job as announcer at WNWI in Valparaiso, IN and made arrangements for a DX test ...the NRC convention was to be held in Montreal and hosted by Sam Simmons and Andy Rugg

10 years ago ... from the June 8, 1981 DXN:Mark Connelly's article "Antenna Phasing" ran in this issue.

# AM Switch

### **Jerry Starr**

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

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

						D CIVEW
-		ETTER	CHAI	20,000		Bye, CKEY
old			~.		call:	A CONTRACTOR OF THE PROPERTY O
73	E 1	WSNI	GA	Thomasville	WSTT	By Greg Quill TORONTO STAR
82		WPNT	IL	Chicago	WXRT	
87		WKZN	ME	Gorham	WLAM	
88	70	KWVG	TX	Hamby	KE 10	
91		WOMG	TN	Columbia	WQZZ	but what they were hearing was a new station with a new format, a new image, new call letters (CKYC)
97	3	KESI	OR	Portland	KDDI	and a new name - Country 59. After 46 years, the station popularly known as
100	S .	KKMX.	$\infty$	Hayden	KIDN	KEY 590 signed off permanently about / p.m.
114		WBYG	I N AL	Union City Hazel Green	WBNN	Thursday without notice.  The move to the country hits format followed
174	J	KCSY	AK	Soldotna	WBXR	research conducted in the Metro market by North
124	0	WBAB	NY		KSLD	said Eric Rothschild, vice-president and general
125	(i)	KZIU	AR	Freeport		manager of the new station, at a breakfast presen-
131		KXTN	TX	Little Rock San Antonio	KURB	holders.
135			FL	2.7.2.1.1.1.2.1.1.1.1.1.1.1.1.1.1.1.1.1.	KZVE	Country 59 is the seventh country radio station owned by the publishing and broadcast giant Ma-
137	E :	WLRQ	WV	Cocoa	₩HL ₩740	clean Hunter in Ontario and the Maritimes. And it's
140	_	WRAF	GA	Moundsville Alpharetta	414 71	the only country music station in Toronto since the demise last spring of CFGM.
140	U	WEUZ	WI	Eau Claire	WAZX	"When people think of oldies, they think of (KEY 590's competitor) CHUM (AM 1050)," Rothschild said, outlining the reasons for abandoning the adult
141	0	WRDC	MS		WBIZ	said, outlining the reasons for abandoning the adult
147				Boyle	***	rock nostalgia format and changing the name of
149		WLAM	ME	Lewiston	WKZN	
5117		WDXB	TN	Chattanooga	WJCC	Dispelling rumors that as many as 20 KEY 590 employees would be laid off as a result of the change, Rothschild said yesterday only five people have been dismissed so lar.
152 158		WGNB	FL	Indian Rock Beach	MXAR	have been dismissed so far.
136	U	WAXU	KY	Georgetown	WTKT	
		CATION	s Fo	R NEW STATIONS		Toronto Star via Jerry Starr
Non	е					
GRA	NT'S	FOR	NEW	STATIONS		
		LA T			e nor	th of Alexandria)
•	_		1094	- 000/ +00 OZ (O MITIC	33 1101	or or Arexarder (a)
APP	LIC	CATION	S FR	OM EXISTING FACILITIE	S	
82		WPNT	IL	(2015)	30750.co 1010.co	eration, relocate XR,
	_			antenna to D1 (see C	20.00	
83	0	KSRT	CA	Orange: powers to 5		ASSANCE 5
102	0	WART	FL	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0 watts, antenna to D1
129	0	WGL 1	NY			to Mastic Beach, NY,
			1000	night power to 550 w		oo nasans boasi, iii,
GRA	NTS	TO E	XIST	ING STATIONS		
58	D	KSAZ.	AZ	Tucson: city of lic	cense '	to Marana, AZ, relocate
				그 그 그렇게 하나를 열었습니다. 그 그 그리지 하는데		night power to 1000 watts
80	0	KQVC	OK			to 2500 watts, add 500
						U3, relocate transmitter
89	0	WEAB	PR			ter site (new station)
127	0	WLSM	MS			er to 2700 watts
143	100	KNTA	CA		, , , , , , , , , , , , , , , , , , , ,	to 1000 watts, relocate
				transmitter site	ponor	Lo .out haddy i divided
145	0	KMHT	TX	Marshall: changes	in ant	enna system
157	7	KQWC	IA	Webster City: reduc		
		- ALINES AND				who were that a warmanta.

Fort Erie: station is still on the air despite 530 CFJT ON several reports that it was silent. They WILL become SILENT 10-1-91 and become FM-only. MSJ reports this frequency will default to the TIS station at Toronto International Airport. Wonder what became of the proposed switch of CIAO from 790 kHz to this frequency? WLSY KY Newburg: several issues ago we questioned if this new station would ever get on the air now that their FM station had gone silent. They have been granted an extension of their permit to construct a new station (CP) so something must still be going on here 730 WDKT AL Madison: station is SILENT Chicago: last issue we mentioned the application 820 WXRT IL of WSBC-1240 to purchase this facility and operate it and WSBC until the 1240 facility could be sold. The application mentioned above to relocate the 820 facility and go daytime-only reflects their plan to diplex the 820 signal into the existing WSBC antenna in northwest Chicago KWIP OR Dailas: this silent station has been sold and new owner has agreed to lease station's real estate and equipment for 10 years so evidently we can expect them to be returning to the air Belton: silent station is back ON THE AIR 94.0 KTON Barnesboro: station is SILENT WNCC Kane: station has been SILENT since March 1991 960 WKZA Nashville: ex-WSIX, station is SILENT, should 980 WYFN return when new REL format is ready to go co Monument: silent station has been sold, may return 1040 KCBR Price: station is SILENT KRPX 1080 Hazel Green: silent as WIXC Fayetteville, TN this WBXR 1140 station is back ON THE AIR from this new city of license with 15000 watts 1180 KLAY WA Lakewood: silent on 1480 kHz, this station is now ON THE AIR as of 4-3-91 on this new frequency WGLI NY Babylon: WADO-1280 bought this station a couple years ago and took it off the air to reduce cochannel interference and improve the 1280 coverage. Now they are proposing to put this station back ON THE AIR after moving it 30 miles east and more distant from NYC in Mastic Beach, NY. Could they be planning to make this a repeater to simulcast WADO? Is there much call for Spanish programming in central Long Island? WIMG NJ Ewing: John Bowker reports he tunes past this station nearly every day and has NEVER noted them off the air, reports of temporary silence are in error evidently 1340 KICK MO Springfield: silent station is back ON THE AIR

### Not sure about renewing?

Consider these benefits of a membership in the National Radio Club: 720+ pages per year of printed, easy-to-read, comprehensive DX and radio information ... reduced prices for publications ... responsive editors ... and the friendliest bunch of DX'ers in the world! Why not send that renewal check to Ron today!

Macon: station is SILENT 1560 KLTI MO WACD AL Alexander City: station is SILENT pending sale

THANKS: Dave Schmidt, the John Bowkers (D&S) and M Street Journal 73 and Good DX, Jung & BKF Jerry Starr & Buffalo K. Foorman

# WAMS radio taking a leave

### By GARY MULLINAX Staff reporter

MOUNT CUBA - WAMS-AM (1380) will go off the air at the end of the broadcast day Sunday in order to develop a new tower and transmitter site

Station officials said they hope to resume broadcasting around

The new tower will increase signal strength, making the station more accessible to listeners in Newark, the U.S. 40 corridor, Cecil County, Md., and Salem. County, N.J.

It's a chance to make WAMS technically competitive with all the other broadcast options," said.

station spokesman Bill Englehart. can best find its niche." Englehart WAMS also will move its stusid.

dio, which would not necessarily share a site with the tower. Delaware Park in Stanton is one place being considered for the studio.

Steve Kallens, the race track's marketing director, said the station might move into what is now the admissions building behind

A move to Delaware Park would fit with the station's goal to increase its coverage of local sports, though management is not vet certain how much the current ormat of oldies rock will be modi-

We've been studying trends nationwide about where AM radio

"There's no way we can compete technically with the FM signal as far as music broadcasting is concerned 'Infotainment' areas [including sports] seem to be where AM is making gains'

The current tower and ground system at the station are more than 40 years old and the ground system has deteriorated significantly, Englehart said. The property itself was sold 18 mont

He said the station had hoped to make the moves without interrupting service, but delays in regulatory approvals and constructimetables made that impossible.

Wilmington News Journal via Dave Schmidt.

Domestic DX Digest - East

### William Hale

734 Burleson San Marcos, TX 78666-4335

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

MEDIUM WAVE RAMBLINGS

 New member, and reporter Laurence Kearley of Orléans, Ontario checks in with a ton of catches. But, alas, most are older than the deadline permits. I'm really pushing it here, and accepting those which go back to March 28th. The reason being a couple of reports should have been here a lot sooner than they arrived, but the post office intervened. Anyway, back to Laurence...he comments on my "stumbling into the middle of" the Canadian "language wars", mentioning a couple of times the "PQ"/"QC" abbreviation for Ouebec. Stumble!? No, pushed and tripped! I really don't care how the Ouebecers(?) abbreviate their province. Just so the post gets through. Anyway, good to have you with us, Laurence. Report more often!

. Once again, several loggings were reported missing time, date, or in a couple of cases...both. Which means a no-show here. Please try to remember these important items!

■ The next meeting of The San Antonio Knobiwisters (all-band club) will be held at 2:00 PM CDT at Wyatt's Cafeteria, 8511 Tesoro Drive, San Antonio (right on Loop 410) on June 16th. We meet for a couple of hours and hash over what's new on the bands, show off our new radios, look over any new magazines or catalogs, and chew the fat. Everyone is welcome.

Late-breaking DX or tips may be phoned in at 512-392-0082. Call before 9 PM Central Time.

### SPECIAL.

CJFT ON FORT ERIE - 4/22 0658 still here, heard with ID (DV-NY) CIFT ON FORT ERIB - 5/8 2157 good in CFYZ null with NOS mx I Wish You Love by female vocalist and ID at 2200 CJFT AM 530, first in it's class on the Niagara Frontier, still no sign of their move to FM; I don't know why some NRCers have had trouble hearing them lately (MS-ONI)

AL YORK - 3/28 ~2100 XLNT with EZL mx, local PSA and call ID; sounds like a format change, plus they sure shouldn't be this loud this late! (DS-TN)

WDKT AL MADISON - don't know if it has been reported, but 730 here has been silent for some time now; had good ratings, but went bankrupt anyway; great fulltime frequency for anyone interested in AM station ownership (ES-AL) [In AMS #24, Jerry \* reported there were 208 silent AMs nationwide. Ouch! - Ed.]

WVNN AL ATHENS - 4/6 ~2150 good with C&W, WHVK Huntsville Country slogans; ex: WVNN [Whoa, big fellow...see next item - Ed.] ...also 4/18 hrd WKOD (93.3) Tullahoma on tropo with same slogans and calls: apparently 770 is now | with 93.3 FM (DS-AL)

WVNN AL ATHENS - is still mostly news/talk with BRN and some sports (CBS and motor racing), with Larry King overnight; now simulcasts with WHVK 93.3 Huntsville's Kountry (ex:WKOD and licensed to Tullahoma, TN, so beware!) in early morning and early evening (ES-AL)

WHOS AL DECATUR - no longer is simulcasting with WDRM, and has gone to 800 fulltime live DJs; still C&W format (Hope it's a trend!, ending simulcast, not C&W format, we have enough of them!) (ES-AL)

900 PO SHERBROOKE - 4/17 1322-1357 on pass thru; EE-language pgms. POP mx and occasional K-900 IDs; announcement cluster at 1327, single FF record at 1356; slogan hrd at was K-900 Classic Oldies and Today's Best Music (RUGG)

920 CBO ON OTTAWA - 3/30 1503 XLNT with continuous tape message: CBC Radio Ottawa has moved to 91.5 on the FM band. If you are having problems receiving our new signal, please call us during business hours at 538-3400 or 724-1200. Please tune your radio to 91.5 FM for the great sound of CBC radio, Ottawa (MS-ON2)

930 KISS TX TERRELL HILLS - another case of an FMer adopting the AM's format...KISS-FM 99.5 is now Kool Gold, too; so AM & FM are simul [Ed.]

960 CFAC AB CALGARY - 4/19 0330 very good with C&W & slogan 260 CFAC is Calgary's home for country music, CL change announced in AMS was for their TV station...AM CLs unaffected (REH-ON)

980 WSIX TN NASHVILLB - 4/14 has been silent all week...suspect change to REL is imminent; channel usually open, but WWRC occasionally hrd after LSS (DS-TN)

WYFN TN NASHVILLE - 4/15 1st day on with new CLs and Bible Broadcasting Network, plus local annets... (DS-TN)

1140 WBXR AL HAZEL GREEN - silent as WIXC, now back on the air with OLD format (via the bird) as Oldies 1140; CNN and TRN News; new address: P.O. Box 778, Fayetteville, TN 37334; new phone: 615-433-7017; signal strength (or lack of it) makes me think they've returned to old transmitter location in TN; still IDs as Hazel Green - Huntsville - Fayetteville, so if you need this one, better get it quick as I suspect new owners are planning to abandon Alabama completely and return to old TN identity (ES-AL)

1410 WS?N AL PRATTVILLE - 3/30 1919 XLNT with WSFA (TV-12) news and Montgomery ads (DS-TN)

1430 WHNK TN MADISON - 4/15 silent today and last night...don't know how long it's been (they often took extended SPs); not [ WIZO-1380 , at least not yet (DS-TN)

1440 WZYX TN COWAN - relays WSMV (TV-4) Scene at 6:00; will try to get a list of other AMs relaying WSMV (DS-TN) [You're the AMs Relaying TV News Editor, right? - hi Ed. - TX]

1470 WRQQ PA FARRELL - 5/8 1359 ultra weak in WWWM null with 50s & 60s OLD & legal ID: All oldies all day long... WRQQ Farrell; had been silent as WOJY (REH-ON)

1490 WAJF AL DECATUR - has been silent for some time, but caught one Sunday with black gospel format, however never again (ES-AL)

1540 KXEL IA WATERLOO - has dropped live C&W in favor of Real Country
satellite feed (which WKBF-1270 in nearby Rock Island, IL also uses); stn is still
airing the IRN (aka The Fred Sanders Show) 7 nights-a-week after midnight, so
KXEL hasn't completely gone down the toilet (RD-IA)

WWOF NC CAMP LEJEUNE - a possible address for this is: WWOF, % Word of Faith, 1309 Lejeune Blvd., Jacksonville, NC 28540-6335; this appears to be a studio address with an STL [antenna] aimed at the transmitter site, a single tower, in a field, and the transmitter nearby; logged sign-off on 4/16 at 1945, by a man, with a mention of 10,000 watts...and Camp Lejeune - Jacksonville; carrier still on after 2000; how can a radio station have a "city of license" which is a military reservation? All IDs announce Camp Lejeune / Jacksonville, as do sign-on/-off annets; comments? (MH-NC) [According to the FCC database, Camp Lejeune is the city-of-license. Whether there used to be a town with that name, or the licensee just "pulled a fast one", who knows?! This all in response to a recent report of a returned verie request to WWOF - Ed.]



1580

### UNIDS AND UNID HELP

800 WDEH TN SWEETWATER - 2/28 1930-1955 yep, that's probably it, my unID in #23...how the heck did I miss it in my own state?! (DS-TN)

930 WRXJ FL JACKSONVILLE - DS-TN's unID of 3/18 (Issue 24)...this fits perfectly; KISS-TX is a long shot (TH-CA) [Nix on KISS...except for their :00 legal ID, it's Kool Gold 930 AM, only - Ed.]

940 KVSH NE VALENTINE - probably RD-IA's unID of 3/9 (Issue 24); other possibilities are CJIB-BC, KBRE-UT, WLNC-NC (TH-CA)

UNID ?? - 4/9 2338 good - fair w/ The Rosary Program, o/u CJGX (SA-MB)
WINZ FL MIAMI - fite perfectly for DS-TN's unID of 3/25 (Issue 24) (TH CA)

WINZ FL MIAMI - fits perfectly for DS-TN's unID of 3/25 (Issue 24) (TH-CA)

990 WEEB NC SOUTHERN PINES - this was on the 1989 Hornets list, so may be RD-

IA's unID of 3/13 (Issue 24) (TH-CA)

1010 UNID ?? - 5/3 2145 with ID as FM-94 and Y-94, then C&W mx; the FM Log

turned up no matches; can anyone help? (MH-NE)

1030 UNID AR? FAYETTEVILLE? - 4/6 ~2247 good with satellite C&W; probably KFAY but couldn't wait up for ID (DS-AL)

WJKZ TN WHITE BLUFF - 3/1 0512 definitely SA-MB's unID; this is their slogan and format and are SNN; very directional and difficult to hear here in Nashville, only 25 miles east (DS-TN) 1060 WHFB MI BENTON HARBOR - best call/format (for WKFD) match is this unID for PC-VA on 3/17 (Issue 24) (TH-CA) ...three to one odds sez this is Perry Crabill's unID from March 17; WHFB switched from C&W to NOS sometime last year, so the format would fit, plus the "WKFD" call that he heard sounds very familiar (RD-IA)

1200 UNID ?? - 4/14 2010-2045 in/out with UC with WOAI; one call ID sounded like WIAB - my guesses are WCHB-MI or WFSF-AL || an FM (DS-TN) [According to Broadcasting Yearbook, WCHB-MI and WDFX (CLs from new Elving FM Atlas) 99.5 Detroit are both owned by Bell Broadcasting Co. ...so... [Ed.-TX]

1550 KSFT MO ST. JOSEPH - 2/21 2053 possible for RD-IA's unID; William Jewell College is in Liberty, MO (suburban Kansas City) and KSFT is reasonably nearby (DS-TN)

DX AND EQUIPMENT TESTS

640 WJTZ TN BLOUNTSVILLE - 4/15 0426-0502 fairly good with tone, CIDs and VIDs on test for NRC (HH-MD3)

WJTZ TN BLOUNTSVILLE - 4/15 0430-0500 weak under WNNZ with frequent CIDs & periods of 1000 Hz TT; some OC w/partial CIDs noted @ 0440 & 0449:30 (RA-MA)

WJTZ TN BLOUNTSVILLE - 4/15 0433+ on top w/ClDs, VIDs & mx; unn (REH-ON)

WJTZ TN BLOUNTSVILLE - 4/15 0446-0500 fair under WOI with TTs and various CIDs; however CIDs came in rapid-fire succession, and without a tape recorder rolling, it was impossible to try to send a report to this guy; oh, well, at least it's logged (RD-IA)

1160 WYRU NC RBD SPRINGS (±100 miles from me) - not hrd on scheduled DX Test of
4/22; listened from 0535-0600, but no test or RS sign-on noted; "only" WOBM
noted (MH-NC) ...test tried for, but not heard...too much
WOBM/WSKW/unID; were they on? (RA-MA) ...4/22 0540-0545 tried for,

KCAR RADIO but didn't hear a trace; just KSL and a weak WJJD noted (RD-IA) ...not heard (DT-ON) ...not heard (REH-ON)

TIS AND NDBs

526 ZLS BAH STELLA MARIS - sent full-data PFC, letter, info sheet, photo of antenna, and 2nd letter with additional info; both letters received in 32 days for mint stamps, address label and SASE; address is Hawkline Group (Bahamas) LTD., Stella Maris Int'i Airport, P.O. Box SM 30-167, Stella Maris, Long Island, Bahamas (MH-NC)

530WNQ1579 MD COLLEGE PARK - this is correct QTH of WNQ1579, not Washington, DC as reported in Issue 23; every time 1 hear it (regularly) from my QTH, the tape loop, which is changed regularly goes: Broadcasting from the College Park Traffic Operations Center and also mentions Traveller's Advisory Radio (WN-MD)

16 WNAT488 MN VIRGINIA - 4/21 0212 fair with mentions of Iron Range Museum, a Blueberry Festival, and Virginia, Minnesota (SA-MB)

WNHQ550

NC NEW BERN (and SUPPLY) - 4/20 1518 North Carolina DOT (Division of Ferries) on recent trip to New Bern; XR site noted on 1-70 (at NC-17 crossover); male anner and 2 minute 10 second tape on Ferry Service available at various ports in NC (7 announced); also, sign advising to tune to 1610 noted on approach to New Bern (MH-NC) ...follow-up...sent full-data PFC (filled out in pencil, no less!) in 12 days for mint stamp and SASE (used); the Supply, NC (located SW of Wilmington and ~70 miles from here) station apparently has the same call sign; power listed is 10 watts; address is Ferry Division, ATTN: H. Meeks, P.O. Box 40, Manns Harbor, NC 27953 (MH-NC)

KHA520 WI LAKEWOOD 4/20 0640 poor with lady doing Lakewood area activities (SA-MB)

WNII729 WY SHERIDAN - 4/19 0700 & 2145 fair on TIS for Sheridan; Big Horn Nat'l Park, Big Horn Mountains & Battle Box Park; USA #1000 heard! (SA-MB)

MIDNIGHT TO 0800 HOURS ELT

580 WELO MS TUPELO - 4/21 0259 fair with WELO, Tupelo ID noted at :00; unID Canadian with Superstation ID heard underneath (RD-IA)

8

- 610 WDAF MO KANSAS CITY 4/23 0122 good, well over WZZK with C&W, 61 Country slogans, promo with address: 61 Country, Signal Hill, Kansas City, Missouri 64108 (differs from Log), call ID at 0123 (DS-TN)
- 640 KFI CA LOS ANGELES 4/15 0430-0500 noted with two distinct IDs before and during the WJTZ DX Test, and believed the one with *The Best of Larry King* program; only bits of programming noted during fade-in over WJTZ test; 1st CA logged from NC (MH-NC)
- 690 KHEY TX EL PASO 5/4 0010 El Paso Diablos minor league BB; uncommon on nite pattern (MH-NE)
- 820 CHAM ON HAMILTON 4/23 0151 over/under WBAP with ads mentioning Burlington and Oshawa (DS-TN)
- 860 KWPC IA MUSCATINE 4/12 0700 poor with SSB, sign-on info by lady; IA #58 (SA-MB)
- 920 KYST TX TEXAS CITY 4/4 0258-0320 SS mx, EE ann requests, night roadwork report, call 390-5978 for requests; poor (DT-JM)
- 940 WINZ FL MIAMI 4/6 0334-0344 nx; All news, all day WINZ; fair (DT-JM)
- 950 WPEN PA PHILADELPHIA 4/30 0533 fair with local nx, annot WPEN Newstime is five thirty-three; Weight Watchers ad (MB-MA)
- 960 CFAC AB CALGARY 4/22 0630 strong with C&W mx, CFAC IDs; not CKKX yet (SA-MB) [See item in SPECIAL about CL change Ed.]
- 970 WFLA FL TAMPA 4/7 0010-0018 Newsradio 970, talk show; fair (DT-JM)
- 990 WALE RI PROVIDENCE 4/30 0530 fair → good with ad for Miller & Soto Law Offices, ID Covering all of Southern New England... WALE Providence, all talk all the time → nx; never heard in Toronto despite 50 kw power (MB-MA) [That's cuz all of their 50 kws are sent out over the Atlantic at about 100° from Providence Ed.]
  - CHTX PQ MONTREAL 4/7 0027-0030 All Hit Radio & 990 Hits IDs; poor (DT-JM)
- 1040 WFYX FL BOYNTON BEACH 4/7 0600-0630 GOS mx, ad for Crazy Smitty at 1921 Broadway; SS (likely Cuba) QRM; poor - fair (DT-JM)
- 1060 WKNG GA TALLAPOOSA 4/29 0804 good with C&W, local wx from the WKNG Weather Center (DS-TN)
- 1110 WHIM RI PROVIDENCE 4/30 0548 fair good with promo for CNN News, Stereo Country WHIM ID - C&W mx; either local WUHN (Pittsfield, MA, only a few miles from Lenox) hadn't signed on or was running PSA power (MB-MA)
- 1140 KPWB MO PIEDMONT 4/29 0812 poor in mess with apparent severe wx watch; KPWB will break in... (DS-TN)
- 1160 WJJD IL CHICAGO 4/11 0050 very good with call ID, etc, well over local WAMB (DS-TN)
- 1230 WMAF FL MADISON 4/17 0627 in briefly with ID & upcoming news (DV-NY) WESX MA SALEM 4/13 0700 with ...news next on WESX, Salem, Massachusetts (DV-NY)
  - WEEX PA EASTON 4/18 0633 news, local ad, then gone (DV-NY)
  - WKBO PA HARRISBURG 4/18 0700 fair with legal ID (DV-NY)
- 1250 WGL IN FORT WAYNE 4/23 0300 poor in WKDA splash with brief legal ID (DS-TN)
- 1280 WNPT AL TUSCALOOSA 4/8 0105 good with NOS, NBC News, phone # 391-2219, community events with address 229 3rd Street, Northport; again 4/11 2250-2300 with severe ITV, but clear ID (DS-TN)
  - WWOK IN EVANSVILLE 4/14 0610 fair with NOS mx, mentions of Louisville; IN #23 (SA-MB)
  - WWOK IN EVANSVILLE 4/16 0044 fair with promo including 3 call IDS, local wx (DS-TN)
- 1310 WDOD TN CHATTANOOGA 4/8 0043-0100 C&W; 24 hours a day WDOD; nx at :00 (DT-JM)
  - KAAM TX DALLAS 5/2 0540 surprisingly good on noisy morning, with female anner saying only K Double A M between a <u>Doris Day</u> tune and one by <u>Glen</u> <u>Campbell</u>; rare down this way [Ed.-TX]

- WIBA WI MADISON 4/23 0159-0210+ my other big Wisconsin pest, fair good with MOR, legal ID at 0200, CBS and local news, promo for CBS baseball; QRM from WDOD and intermittent WNQM, who was having XR trouble; darn, no local ads for the report! good northern conditions tonight (DS-TN)
- 1330 WJNX FL FORT PIERCE 4/8 0200-0210 Your WJNX weather, Palm Beach mention, ...on South Florida WJNX; fair (DT-JM)
  - WRCA MA WALTHAM 4/16 0155-0205 with nx, sports, WRCA Sports Final; 0200 USA Radio Network Nx, 0209 You are listening to WRCA; poor (DT-ON)
- 1350 KRNT IA DES MOINES 4/23 0130 1350 KRNT Des Moines ID MBS Nx; good (DS-TN)
- 1360 WKAT FL NORTH MIAMI 4/9 0257-0300 talk in FF (like a FF lesson), ID at 0300 1360 WKAT, North Miami in EE; fair, with slight unID Cuban QRM (DT-JM)
- 1370 WCOA FL PENSACOLA 4/9 0305-0330 Larry King Show, poor under/over unID with CLA and TalkNet (DT-JM)
- 1380 WRBQ FL ST. PETERSBURG 4/11 0637-0646 with ROK Highway 60 mention, Rock 105 slogan; over/under SS (Cuba) (DT-JM)
- 1400 WFTL FL FT. LAUDERDALE 4/12 0055-0100 live broadcast from restaurant ....here on WFTL, live at \_\_\_ (?), ad for AIDS comic book (DT-JM)
  - WJLD AL FAIRFIELD 4/24 =0132 call ID briefly over WIKY and unID UC (DS-TN)
    - WFPA AL FORT PAYNE 4/24 ~0134 good briefly with end of SNN News,

      Campbell Smith brings you the news every morning, only on WFPA promo;

      Yikes! three new ones on 1400 in 5 minutes! (DS-TN)
    - WWRK GA ELBERTON 4/24 0128 tentative in mess with UC, call ID AM 1400 WW??, end of call lost in mess; only 3 WW- I show are WWXX (now simulcasting WRAF(FM) with REL), WWRK (format sez C&W, but may have changed), and WWIN (just too far away!); over/under WIKY for at least 10 minutes, had to retire before ID (DS-TN) [If you can confirm this, you've got the distance record at 265 miles Ed.]
    - WIKY IN EVANSVILLE 4/24 0130 WIKY-AM Evansville/Henderson/?? (?? is probably Owensboro) ID in satellite OLD (DS-TN)
    - WSLB NY OGDENSBURG 3/29 0550 with 50s and 60s oldies; clear, then overlay with CHER, Pembrooke; positive ID (LK-ON)
- 1420 WRCG GA COLUMBUS 4/11 0120-0153 OLD (My Way, etc); ID WRCG AM; poor with ORM from unID talk show (DT-JM)
- 1430 WLTG FL PANAMA CITY 4/13 0106-0109 "This is 1530 talk radio WLTG" [copied as sent Ed.], then Talk Net; fair (DT-JM)
  - WNJR NJ NEWARK 5/2 0537 fair with ad for <u>Denny's Restaurant</u> → call-in show called *Great Awakening* with a number of quasi-IDs (ie: anner said *Hello*, you're on WNJR) (MB-MA)
- 1440 WHHY AL MONTGOMERY 4/24 0125 good with end of Braves game, then 1440 WHHY Montgomery ID, list of local sponsors (DS-TN)
  - KEYS TX CORPUS CHRISTI 4/13 0110-0135 with sports talk, network ads, 0135 ID 1440 KEYS; sports news; poor (DT-JM)
- 1510 WNLC CT NEW LONDON 5/1 0544 fair poor with local wx, ad for Wee The People cassette to improve reading skills (by the same folks who offer Hooked On Phonics (MB-MA)
- 1570 WBUX PA DOYLESTOWN 5/1 0546 fair with local wx, many mentions of Bucks County, farm report (MB-MA)
- 1580 WLIM NY PATCHOGUE 5/1 0531 very good with sign-on annet preceded by SSB; this stn is a #\$%/&\*! pest just about anywhere I DX! (MB-MA)
  - WRDD PA EBENSBURG 4/14 0630 poor with sign-on (no SSB) under WPGC which had just switched to day pattern/power (REH-ON)

### 0800 TO 1600 HOURS ELT

- 1030 KFAY AR FAYETTEVILLE 4/10 0810 good in strong KXEN splatter with ID after wx by female (ETH-MO)
- 1060 WPHC TN WAVERLY 4/9 0810 good in mess, Waverly obits (ETH-MO)
- 190 WHIY AL MOULTON 4/29 0818 in & out with WGKA and WOWO with local talk, ...here on AM 1190 WHIY call ID (DS-TN)

- WGKA GA ATLANTA 4/29 0818-0831 good at times, in & out with WHIY and WOWO with CLA, WGKA Weather Forecast, 0931 TC (DS-TN)
- 1320 WAGG AL BIRMINGHAM 4/29 0840 good with B:GOS, local talk & community events, Birmingham severe thunder storm warning (DS-TN)
- 1450 WASK IN LAFAYETTE 4/5 1000 very good with WASK, Lafayette ID local temps and nx (RD-IN)
- 1490 WDAN IL DANVILLE 4/5 0945 good with Where Am I? contest being played by about 3 different announcers; listeners were invited to call in with correct answers (RD-IN)

### 1600 TO 2400 HOURS ELT

- 540 WSTH GA COLUMBUS 4/14 2101 good with end of ID/promo mentioning Opelika, Auburn, LaGrange, and several other cities near Columbus, followed by The South slogan, then - syndicated country countdown (DS-TN)
  - WYLO WI JACKSON 4/25 2110-2127 XLNT with REL mx; Your Christian Connection (RRD-IL)
- 550 KUSA MO ST. LOUIS 4/25 2128-2137 poor → fair under null of WIND; C&W mx; completely lost it completely after 10 minutes (RRD-IL)
- 570 KLIF TX DALLAS 4/6 2133 good, well over WVMI with TC, PSA, promo for new frequency/signal (DS-AL)
- 580 WKTY WI LA CROSSE 4/25 2140-2151 fair poor, faded in & out very fast; gave sports scores, then C&W (RRD-IL)
- 590 WRAG AL CARROLLTON 3/30 1944 fair over/under Cuban and unID C&Wer with talk, slogen From the motivating 59, WRAG (DS-TN)
  - WKZO MI KALAMAZOO 4/25 2152-2218 fair good with Tigers BB; legal ID at :00 (RRD-IL)
  - WOW NE OMAHA 4/25 2152-2153 poor; quickly gone under WKZO (RRD-IL) CKYC ON TORONTO 4/10 2358 poor with C&W mx, Country 59 IDs; ex:CKEY;
  - CKYC ON TORONTO 4/10 2358 poor with C&W mx, Country 59 IDs; ex:CKEY; ON #79 (SA-MB)
- 600 WMT IA CEDAR RAPIDS 4/25 2218-2300 good with auction program, with some great deals! I only wish I was closer, too far to drive there to bid on anything! (RRD-IL)
- 630 WBMQ GA SAVANNAH 4/6 ~2257 good with talk, promo for WBMQ program schedule (DS-AL)
- 680 WCNN GA NORTH ATLANTA 4/6 ~2255 good with CNN Headline News, over/under unID OLD stn (probably WODZ) (DS-AL)
  - WRGC NC SYLVA 3/30 1947 poor, just slightly over WPTF with satellite C&W, AM 680 WRGC call ID (DS-TN)
- 710 KGNC TX AMARILLO 5/8 2100-2125 with Rangers MLB; no sign of WHB, WLW or WGN; this time of year WGN comes in better about anytime during the day then at early evening (BS-NE) [Wish I could say the same about WGN, hi Ed.]
- 730 WOHS NC SHELBY 4/14 2059 very good with <u>Carolina Sports Network</u>, legal ID WOHS Shelby (DS-TN)
- 790 WTSK AL TUSCALOOSA 4/4 2127 fair with UC, 790 TSK slogan, promo for something with phone # 345-12?? (DS-TN)
  - WTNY NY WATERTOWN 4/10 1954 with tunes Proud Mary and Tonight I

    Celebrate My Love; mixing with a couple of others, but easy to pick out, then
    fade; positive ID (LK-ON)
  - CIAO ON BRAMPTON 4/23 2211 poor with ethnic pgm, talk pgm in Italian for ON #80 (SA-MB)
- 840 KVJY TX PHARR 5/9 2319 NOS mx, ID and ads; little WHAS QRM (MH-NE)
  WKTR VA EARLYSVILLE 4/3 1844 GOS or C&W mx, then sign-off annet;
  fairly good; hrd after WKDI sign-off (HH-MD1)
- 850 WYDE AL BIRMINGHAM 4/11 2236 in & out with GOS, Progressive Christian Radio Y-85 slogans; tent (DS-TN)
- 910 KVIS OK MIAMI 5/4 2244 ID followed by wx 4cast then C&W mx; 1st time hrd with these CLs (MH-NE)
- 940 WMIX IL MOUNT VERNON 4/19 22004 [sic Ed.] fair with wx forecast, lite ROK mx, AM-94 ID; IL #58 (SA-MB)

- 960 CFFX ON KINGSTON 5/6 2149 with Broadcast News, MoR mx, positive ID; strong QRM from CKCH, Hull, PQ in FF (LK-QN)
- 990 WIVK TN KNOXVILLE 4/6 ~2250 good with C&W, call IDs (DS-AL)
- 1010 WINS NY NEW YORK 4/26 2345 with news, ID as 1010 Wins, under 50kw local CFRB (MS-ON1)
- 1030 WJKZ TN WHITE BLUFF 5/5 2230 fairly common now in late evening and night; fair with C&W and even some NOS thrown in (MH-NE)
- 1050 WLIF WI KENOSHA 5/1 2138-2146 good with AC mx, also talked about bootleg copies of movies people are making with camcorders in theaters (RRD-IL)
- 1100 KDRY TX ALAMO HEIGHTS 4/3 2000 very weak during aurora with REL, then faint ID ... weekdays on KDRY... (ETH-MQ)
- 1120 WADN MA CONCORD 4/28 2200 poor in KMOX null with long sign-off annet by female, mentioning programming provided by CBC, BBC and other international sources, no SSB; not needed, hrd on 1990 CPC test. (MB-NY)
- 1140 WQBA FL MIAMI 4/3 2015 XLNT, no trace of WRVA; SS talk/ads, clear SS ID, mention Broward, Hialeah; nice (ETH-MO)
- WOWO IN FORT WAYNE 4/26 2256 with The All-Night Oldies Party, positive ID; very strong with lots of spillover from CFGO (LK-ON)
  - KUII TX DALLAS 4/6 ~2155 good with CNN Nx, call IDs; I forget if these guys' new CLs were resolved - if not...they're definitely KUII (DS-AL)
- 1230 WJOY VT BURLINGTON 4/15 1920 good with ID sports (DV-NY)
- 1250 WEMP WI MILWAUKEE 5/1 2155-2216 good with OLD mx; legal ID at :00;

  Robert M. Chenault was DJ (pretty formal name, huh?); had prome for a '65

  Corvette they're giving away! wx at :14, then back to OLD (RRD-IL)
- 1260 WCEO AL BIRMINGHAM 3/30 1827 fair in mess with BRN biz call-in show, AM 1260 WCEO, Birmingham's Business Station, ex: WCRT (DS-TN)
  - WSUA FL MIAMI 4/6 ~2155 fair with R. Suave slogans, ads with 7-digit phone #s, talk about Calle Ocho (main street in Miami Cuban area) (DS-AL)
- 1270 WEIC IL CHARLESTON 4/4 2356 briefly over meas with annet ...here at
  Country 1270 WEIC and C&W mx (DS-TN)
- 1280 KDKD MO CLINTON 5/7 2200 fair poor in KOIL splash with mx and ID at :00; new (MH-NE)
- 1290 WKNE NH KEENE 4/24 2107-2116 Red Sox BB post-game show, 12 at 2107 [??-Ed.], ... WKNE...; over WHIO; WNBF took over at 2116 (DT-ON)
- 1300 WQBK NY RENSSALEAR 4/24 2130-2200 with TalkNet, local ad, <u>John Drainee Capitol Sports</u> weekdays at 6:30 on Newstalk Radio WQBK; over 2 unIDs (DT-ON)
- 1310 WDOD TN CHATTANOOGA 4/6 "2235 fair with satellite BBD, call ID (DS-AL)
- 1320 CJMR ON MISSISSAUGA 4/25 2240 end of <u>BlueJays</u> game, positive ID; very weak and fade (LK-ON)
- 1340 WNHC CT NEW HAVEN 4/24 2358-0020 OLD, 0020 WNHC 1340, wx WNHC, breakthru,; poor over/under WSTJ, unID with Larry King; poor (DT-ON)
  - WSTJ VT ST JOHNSBURY 4/24 2358-0005 sudden breakthru with You're listening to WSTJ, St. Johnsbury, Vermont, it is 12:00, CBS Nx; fade-out at 0003; over/under WNHC; SSB hrd at 0005 (DT-ON)
- 1360 KFFA AR HELENA 4/2 2000 good atop with blues mx show; surprisingly strong (ETH-MO)
- 1370 WEYZ PA ERIE 4/10 2158 with The Music of Your Life tune Little Green Apples; QRN, overlay with another station, strong to fade (LK-ON)
- 1380 WAOK GA ATLANTA 4/6 ~2230 very good with ID, B:GOS (DS-AL)
- 1370 WLTH IN GARY 4/23 2137 good with promo for Hoosier Lottery and ad for Northwest Indiana Black Art Exposition in Gary (RD-IA)
- 1390 WXTC SC CHARLESTON 4/6 "2205 good with 98FM WXTC slogans, CHR/OLD mx (DS-AL)
- 1400 WHNP MA NORTHAMPTON 4/23 2335-0105 TalkNet, local ad 0104 for Mass Office of Travel & Tourism; poor (DT-ON)
- 1410 WPOP CT HARTFORD 4/25 2159 ad for Middletown Furniture store closing, ABC News, K-Mart ad, ABC Info-Net, ID; lots of QRN and clutter (LK-ON)
- 1440 WCDS KY GLASGOW 4/14 1844 fair with C&W mx, brief call ID (DS-TN)

WFTQ MA WORCESTER - 4/17 2216-2230 & 2330-2400 ROK mx, WAAF Challenge, WAAF, untamed radio; local ads incl Davers, Mass; finally at :00 WAAF 107.3, so relaying FM operation (DT-ON)

WLEC OH SANDUSKY - 4/18 2000-2030 Cleveland vs Texas MLB; CBS Sports 1450 news 12:10 & 2 other time on WLEC, get tickets at Mr. Hero's Restaurant, poor, under/over 2 unIDs (DT-ON)

WLAR TN ATHENS - 4/4 2231 brief call ID over mess, promptly destroyed by WKGL fadeup (DS-TN)

WMFX NC LAURINBURG - 4/13 2251-2300 Carolina's best, ad for firm on Cedar Creek Road, ad for jewelry store; All-news WMFX and All new Saturday night hot mix; fair (DT-JM)

WRBD FL POMPANO BEACH - 4/13 2306-2330 SS mx, ID in EE at :30 1470 WRBD; poor under WRGA (DT-JM)

WRGA GA ROME - 4/13 2306-2330 Jim Bohannon Show, MBS Nx; fair over WRDB

WOHO OH TOLEDO - 4/10 2115 with POP mx, ad for Northwest Ohio Bone and Varicose Vein Clinic; very weak under CHOW with positive ID; fade (LK-ON)

WMIB FL MARCO ISLAND - 4/13 2334-0005 TalkNet; nx at :00, local nx, Dade County mention, ... 24 hours a day news talk, 1480 (DT-JM)

1500 WKAX AL RUSSELLVILLE - 3/30 1841-1900 poor in WLAC splash with GOS, ad for Mead's Electronics & Computers at 332-6861; 1900 sign-off with Alabama mention, Battle Hymn of the Republic (instead of SSB); this is a very difficult channel to DX due to WLAC about 4 miles and 10 kHz away (DS-TN)

WLQV MI DETROIT - 4/19 2038-2045 S.W. radio church program, ad for gospel record Resortatio next on WLOV; way over top of WTOP. 1st time in a long time! (DT-ON)

KJIA SD SIOUX FALLS - 4/20 2115 weak with ContChr mx → sign-off: KJIA 1520 Sioux Falls now signs off ...; 1st Sioux Falls catch at this QTH (RD-IA)

1550 WRHC FL CORAL GABLES - 4/2 2030 xlnt with TLK by man & woman, ad, SS ID then woman did taped EE ID, WRHC Coral Gables, Miami, Hialeah (ETH-MO)

1560 WPAD KY PADUCAH - 4/4 2153 good over WOXR with BBD/EZL, legal ID @ 2200; one other unID BBD/EZL in there too (DS-TN)

1570 CFOR ON ORILLA - 4/10 1949 BlueJays game & You're catching BlueJays baseball on 1570, CFOR: Panasonic and Cadillac ads: clutter, fade, positive ID (LK-ON)

WOOW CT WATERBURY - 4/10 2053 CNN Headline News, sports scores, song Blueberry Hill, overlay with WAKR, positive ID (LK-ON)

WONX IL EVANSTON - 4/20 2345-0103 SS talk: 0030 breakthru Radio Pastor. 0100 ... WONX ... in EE; poor under WAKR, WASB, unID (DT-ON)

WAKR OH AKRON - 4/26 2137 fair with Cleveland Indians vs Texas Rangers with Nolan Ryan pitching (RD-1A)

WEUP AL HUNTSVILLE - 4/14 1939 poor in QRM; announcement with Huntsville address, Magic 16 slogan (DS-TN)

WXVI AL MONTGOMERY - 4/4 2147 fair over/under unID blues station, with B:GOS, promo for Bahamas trip contest with WXVI call mentions, Montgomery & Prattville addresses; Sunshine 16 WXVI Montgomery ID at 2'152 (DS-TN)

WJOI VA CHESAPEAKE - 4/8 1854-1922 good, atop the channel much of time; some WAYC ORM and unIDs: Love songs on Joy 95 + ads and wx (HH-MD2)

### THIS MONTH'S REPORTERS

ETH-MO EARL HIGGINS//ST. LOUIS, MO//Superadio, ICF-6500W

DV-NY DON VOORHIES/OSWEGO, NY//tuned ears

DT-ON DON TRELFORD//Scarborough, ON//DX-440 + wire or DT-IM basking in the Sun at Runaway Bay, Jamaica//DX-440 + LW

MH-NC MIKE HARDESTER//Camp Lejeune, NC// (3 reports!)

RA-MA RAY ARRUDA//Acushnet, MA//HQ-180A, Radio West Loop

DS-TN DOUG SMITH, W9WI/4/(Nashville, TN or DS-AL on the road in Mobile, AL//

HH-MDz HANK HOLBROOK//Dunkirk MD//1 = SP-600 + Colgrove Loop or 2 = DX-440 + 30' basement antenna or 3 = DX-440 + Colegrove Loop

RUGG ANDY RUGG//on the road in Windsor, Quebec//'87 Chrysler LeBaron

SA-MB SHAWN AXELROD//Winterpeg, MB//R-70 + 100' LW or 3' loop

RD-xx RICK DAU//IA = Iowa City, IA//R-1000 + RW Loop///IN = on U.S. 24 near Kentland, IN//Ford caradio

RRD-IL "RANGER" RICK DETTMANN//Buffalo Grove, IL//Superadio II + Select-A-Tenna

ES-AL ED SOULE//Huntsville, AL//

REH-ON CHARLES REH/Leamington, ON/R-390A + Sanserino Loop + TR-3000 open reel tape recorder

WN-MD WALTER I, NISSEN, Jr.//Silver Spring, MD//CFS-1000 + Select-A-Tenna

MB-MA MIKE BROOKER//Dxing between yoga classes at an ashram (yoga retreat) in Lenox, MA/ICF-7600D or MB-NY in Syracuse, NY/ICF-7600D

BOB STRAUBE//Palmyra, NE//Superadio BS-NE

LK-ON LAURENCE KEARLEY//Orléans, ON//ICF-SW1 barefoot

MH-NE MIKE HAWK, KB@GXE//Omaha, NE//R-1000, ATS-803 + 2' loop

MS-ONx MORRIS SORENSEN//1 = Scarborough, ON//TRF-655 barefoot or 2 = Kemptville, ON// RF-65B barefoot

Ed,-TX Your editor, N5SZC//mile marker 220 on I-35 near Buda, TX//'87 Delco ETR

### GYDXA UPDATE

1400 kHz:								
WJLD AL Fairfield	Doug Smith		Nashville, TN					
1450 kHz:								
XEJM NL Monterrey	Mike Hawk		Omaha, NE					
Totals:	1230	1240 134	0 1400	1450	1490	Total		
DON VOORHIES Oswego, NY	31	19 2	26	24	38	166		

### ABBREVIATIONS AND SPECIAL SYMBOLS USED IN DDXD-E

| :parallel with or to -: to or into :00:on the hour AC:Adult contemporary AP; Associated Press BBD:big band BRN:Business Radio Net C&W:country & western CHR:contemporary hit radio CID:code ID ContChr:contemporary Christian EZI easy listening EE:English FF:French GOS:gospei IRN:Interstate Radio Net jx:jingte LSR:iocal sunrise LSS: local sunset MLB major league baseball mx:music nx:news NPR: National Public Radio OC; open carrier pop: play-byplay PSRA:pre-sunrise authority PSSA:post-sunset authority QRM:man-made interference QRN:natural interference QTH:location REL:religious ROK:rock 'n' red RS:regular schedule \$:stereo SID:singing ID SRS:sunrise skip SS:Spanish SSB:Star Spangled Banner SSS:sunset skip TC:time check TT:test tones UC:urban contemporary UPJ:United Press International wx:weather



P.O. Box 427, Keckek, lows 32632

BY JOHN D. BOWKER

THIS IS THE COMPLETE LIST OF U. S. BROADCAST STATIONS ON THE INDICATED FREQUENCY AS PUBLISHED BY THE FEDERAL RADIO COMMISSION IN 1934. "S" MEANS SHARED: "SH" MEANS SPECIFIED HOURS: "T" INDICATES TRANSMITTER LOCATION; "D" MEANS DAYTIME OPERATION ONLY; "U" MEANS UNLIMITED TIME.

Frequency (kc)  1010, regional (Canadian	Call letters WHN	Main studio and transmitter location  New York, N.Y  T—Asjoria, I1.	Power 250 w	Time designation S-WRNY, WQAO-WPAP.
shared).	WQAO- WPAP	New York, N.Y. T-Cliffside, N.J.	250 w	S-WRNY, WHN
	WRNY	New York, N.Y. T—Coytesville, N.J. Norman, Okla	250 w 500 w	S-WHN, WQAO- WPAP. S.H.
	WIS	Columbia, S.C	500 w 1 kw LS	}v.
	KGGF	Coffeyville, Kans T—South Coffey- ville, Okla.	500 W 1 kw LS	}s.H.
	KQW	San Jose, Calif	500 w	U.

# Domestic DX Digest - West

Wayne Heinen 4131 S. Andes Way Aurora, CO 80013 FIDO NET 104/108

(303) 699-6335 (prepaid only) DX Catches in the Western U. S. and Canada, with 24-hr. ELT

### 650 KMCE/KRCX (?) CA Rancho Cordova

4/19 2255 SS Mx, ID @ 2300 "KRCX, Roseville-Sacramento and KMCE, Rancho Cordova - Stockten" o/CISL. (NH/BH-WA) 4/29 Good w/ SS MX. Slogan/ID hrd often "Desde la Sierra hasta la playa, su radio completa es K-R-C-X, el súper 6-50." (TH-CA2) Please note that TH says (ex-1110) for the KRCX call and NH/BH say new on air w/ KRCX & KMCE running //. Log Shows the New On Air is what we've got. Comments/ Corrections ?? -ed

### 1580 KBLA CA Santa Monica

4/18 0313 Fair w/ BRN. Announcer welcoming KBLA to BRN. Better signal than KDAY. Still mixed w/KCWW/XEDM. (ex-KDAY) (TH-CA) 1610 KNEC996 CA Ft. Tejon?

### Midnight to Midday!

### 1340 KISTt CA Santa Barbara

4/22 0353 Apparently them w/ "Magic 106" FM. 1610 KHA519 WA Naches Slogan matches sister FM KMGQ-106.3. (TH- 4/30 0330 Woman gave call, List of open camp-CA)

#### 1450 KEST CA San Francisco

4/15 0400 Dual ID KEST and KOBO 1450 Yuba City. New simulcast arrangement? Assume this was KEST, as they often dominate and KOBO has never been logged here. (Might have been ID's West Loop one atop the other too-ed) (TH-CA)

### Midday to Midnight!

### 980 KUTI WA Yakima

4/20 2223 Fair w/ "Country Gold Saturday Night". (NH-WA)

### 1340 KWWW WA Wenatchee

4/27 2338 End of ad.. "We're your home of Good Time Rock 'n Roll, If it's Oldies It's 13-40 K-W-3" Poor in the mess. (NH-WA)

### 530 WNSB415 CA San Ysidro

4/18 1658 Excellent on car rx in San Juan Capistrano w/ tape loop about aliens crossing Freeways. Mixed w/ Disneyland & Burbank Airport. No sign of HAR from Mission Viejo-El Toro. (TH-CA3)

### 530 WNHI810 CA Simi Valley

4/18 1838 Good along US 101 & I 405. Info on 24hr Food/Gas/Phone availability and earthquake Info. My ID from home last year. Operated by Simi Valley PD (TH-CA3)

### 530 WNFG219 CA Anahiem

4/18 1700 Back on Air w/ Disneyland and Anaheim Convention Center Info. (TH-CA3)

4/19 0000-0300 Fair w/ Male Ann. Tape loop about I-5 thru Tejon Pass. (TH-CA4) 4/29 0643 Nice signal off back of SE beveridges. (TH-CA2)

grounds.. Poor to nil w/ Static. FTH. (NH/BH-WA)

### CONTRIBUTORS!

(BH-WA) Bill Hardy Aberdeen, WA-FRG-7, Radio

(NH-WA) Nancy Hardy Aberdeen, WA - FRG-7, Radio West Loop

(TH-CA) Tim Hall Chula Vista, CA - ICF-2010. Radio West Loop

(TH-CA3) Tim Hall - I-5/I-405/US 101 San Diego-Morro Bay Delco Car Rx

(TH-CA4) Tim Hall Morro Bay - ICF-2010, Radio West Loop, Car RX

(TH-CA2) Tim Hall San Diego, CA - ICF-2010, 1500' LW. 2700' LW

### The Topeka Capital Journal Joy 88 buys -via Paul Swearingen top of the former WREN building,

will be sold to raise money for the renovation of the building, Wilson said. Wilson said the WREN call letters may also be sold to the highest bidder.

The WREN park, a small area just outside the large glass windows on 10th street where WREN disc jockeys hosted parties, will likely be taken out. He said an entrance to Joy 88 will be put in on the 10th street side.

Joy 88 went on the air Aug. 31. 1985. It broadcasts to a 55-mile radius of Topeka and recently applied for an increase in power of 100,000

WREN-AM first went on the air June 15, 1926, in Lawrence, as part of the University of Kansas. It became a Topeka station in 1947

the station was sold in 1982.

From 1952 until 1982, the station was owned and operated by former Gov. Alfred M Landon Landon had his offices for many years in the older portion of the building and worked there on a daily basis until

## WREN radio By ANITA MILLER

The Capital-Journal

more — the former home of about 2,000 square feet WREN-AM, Topeka's 61-year-old "This kind of broke AM radio station that went off the we'll have to raise some money to air in 1987.

Officials of Joy 88, a Christian music radio station, said Friday they will need extensive renovation, have purchased the WREN building which he said he hopes would be from Westinghouse Credit Corp., and done this summer through volunteer plan to renovate the facility into a work home base for its station.

for Joy 88, said the station paid until at least September. Joy 88. \$50,000 for the building. He said the which has the call letters KJTY, is radio station will be located in a presently in leased space at 2519 one-story, 2,000-square-foot area N.W. Topeka Blvd. that was added to the structure in

1957. An original two-story resi-Music will once again be generat- dence turned into office space will ed from the corner of 10th and Fill- be leased out The leased area is

"This kind of broke us and now fix it up," he said.

Wilson said the radio station area

Wilson said he doubted the radio Warren Wilson, station manager station would be able to move in

The large WREN bird, perched on

# International DX Digest

### Jim Renfrew

61 Wilcox Street Rochester, NY 14607-3832

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

The summer DX dolorums have set in. at least in Rochester, because I haven't touched the dials in weeks. BUT, there are still reports rolling in. Let's think positive about the summer, maybe its only a twisted rumor that DX possibilities are reduced, and we've been missing out on New Zealand and Chile for years without realizing

Cesar Objio, our Caribbean correspondent, presents his annual "Santa Semana" (Holy Week) monitoring results. Many DR stations are off the air during this time. Thank you, César, for your translations, details of advertisers, and current slogans.

Thanks to Don Trelford for a Jamaica bandscan which will appear whenever Paul S. has room.

### PAN-AMERICAN

- 540 MEXICO XETIN, Tijuana BCN 1244 4/29 MM. New Station signed on this morning w/100% automated operation, mostly SS AC so far. No ads yet. Slogan "R. 540" o/marimba mx theme after every song. Call letter ID every 15 or 30 minutes. Power unkown, but I would guess about 5 kW. There was never a CP listed for this, New. Schedule for this new station is 1200-0600 summer, 1300-0700 winter. Still no mention of power. Clean signal, but it still ruins 4 TIS stations on 530, KJQI-540 and SDSU's carrier current KCR-550. [TRH-CA2]
- 590 VENEZUELA R. Continente, Caracas 0414 3/29. I have not heard this station for a long time, now very strong, almost like a local, w/pop mx. [CO-DR]
- 590 MEXICO unID 1059 4/29 MM. XE anthem (more than one verse), rooster crows. faded during possible ID and ads by woman. Most likely unndeeded XEE or XEFD. Can anyone in CO or TX help with this? [TRH-CA2]
- 620 COLOMBIA Colmundo R. 0500 3/29. ID, w/typical COlombian mx, bambucos, guavinas, etc. Freq usually covered by RTVD. [CO-DR]
- 640 <u>VENEZUELA</u> <u>Ondas Porteñas</u>, Pto La Cruz 0109 3/30. Heard IDing as "24 horas, Porteñas, seis cuarenta (6-40), and pop mx. [CO]

- 680 MEXICO XESON, Hermosillo SON 0657 4/8, 0558 4/11, 0558 4/12, 0557 4/14. Finally caught the ID on this after tip from John Wilkins that the station was now on until 0700. Station carries ACIR network feed most of the night, including an XE arthem from the net around 0600. Back to the net feed after 0600 but there is usually an ID in there somewhere before 0700 s/off. (Occasionally they s/off at 0600). ID "R. ACIR en Hermosillo, Sonora -- XE-Son". New, tried every night for a month before I got the ID. [TRH]
- ANGUILLA Caribbean Beacon, The Valley 0115 3/30. Religious program, all English. [CO-DR]
- MEXICO XECS, Manzanillo 0733 4/8 MM. Usual programming poking through local XETRA with 'La Grande de Manzanillo" slogans. Somebody else should be hearing this besides me! [TRH-CA]
- MEXICO Illuana (XETRA) 0822 4/22 MM. Off, leaving KHEY, XECS, and unID (probably CBU). [TRH-CA]
- 730 MEXICO XEX, Mexico DF 0730 4/8 MM. ID, followed by slegan "La Super Grande' and promo announcement mentioning they are back on 24 hr sked. [TRH-CA]
- 740 VENEZUELA R. Maracaibo 1604 3/29. ID, w/ads for "Prevención Semana Santa 91" w/info about the roads and beaches of Venezuela during holy week. [CO-DR]
- 760 COLOMBIA RCN, La R. de Colombia, Barranquilla 1600 3/29. ID on the exact hour, time pips, announcing "Noticiero RCN", then nx and ads for "Suramericana" (life insurance), "radio por satelite." Again IDed at 1656 as HJAJ, RCN, Barranguilla "la radio por satelite de Colombia." Only Colombian station now heard in Santo Domingo in daylight, w/R. Cordillera off. [CO-DR]
- 760 <u>MEXICO</u> <u>XEEB</u>, <u>Esperanza</u> 0713 4/19. Fair through KFMB w/"E-B La Rancherita" slogans. [TRH-CA4]
- 770 MEXICO XEATH, Monterrey 1103 4/9. Weak u/KKOB w/s/on: "Con una potencia de 5000 watts, XEATH." Two more IDs noted at 1158. RAN/AC format. Took a year to finally catch the ID on this. New. [TRH-CA]

780 VENEZUELA R. Coro 1553 3/29. ID and pop mx w/a record by "4-40", a well known musical group in the Caribbean area. [CO-DR]

810 BAHAMAS ZNS-3, Freeport 1030 4/12 and 0720 4/24. Usual religious programming u/KGO. I still don't know why no one outside of San Diego hears this! (TRH-CAI

820 VENEZUELA R. Guadalupana, Coro 1700 3/29. With some ads, IDed w/a chorus then pop mx. This is a move from 1540 kHz. [CO-DR]

820 MEXICO unID 1235 4/9. "La Poderosa" noted here again, likely XESB. [TRH-CA]

830 <u>BELIZE Belize City</u> 1109 4/29, Fair signals w/IDs by man. Always nice to hear this one. [TRH-CAP]

830 MEXICO unID 0245-0416 4/30.

Opera and CLA mx way u/XELK. Has to be needed XELA; extremely tough to get an ID. [TRH-CA2]

840 HAITI 4VEH, Cap Hatien 0047 3/29. With religious chanting; a male chorus singing. Very strong, not usually heard in Santo Domingo. [CO-DR]



...Para Todo el Perú

850 VENEZUELA RD 850. Carabobo 0041 3/29. ID, then local nx and pop mx, good. My old WRTH does not have any Venezuelan station here, but this one is located at Carabobo, as announced. [CO-DR] (César, A recent report from the ARC [DXN 5/8-24] stated that "RV", R. Valencia, has been testing here. It is listed in the back of the 1991 WRTH as well - Jim)

850 PUERTO RICO R. WABA, Aquadilla 1705 3/30. With talks about the political situation in PR. [CO]

860 VENEZUELA Enlace 8-60 Station
1Ding "Dondequiera que usted va
'Enlace 8-60' se escucha más
(meaning wherever you go, Enlace
8-60 is heard more)." Supposed
to be R. Vision, San Cristobal.
It is not usually heard here
because of R. Clarin. (CO-DR)

860 NETHERLANDS ANTILLES R. Curom, Willemstad, Curacao 1655 3/30. With many ads in Papiamento, w/R. Clarin off. [CO-DR]

B80 PUERTO RICO R. 8-80, Sabena Grande 1555 3/29. With religious program ID. [CO-DR]

880 MEXICO XEV, Chihuahua 1155 4/29 MM. Fair-good w/XE anthem, IDs and "R. Sensación" slogans. [TRH-CA2]

880 MEXICO XETC, Torreon 1159-1214

MM. Excellent w/slow XE anthem to 1201, TC and ID by woman:

"XETC, Estereo Mayran, La Imagen del Sonido, transmite en los 880 kHz de AM, con sonido estereofonica, 10 kW de potencia, en Torreon, Coahuila, telefono 12-68-68." Frequency change (ex-1240) and big power increase.

New. [TRH-CA21]

910 PUERTO RICO Notiuno Mayaquez 2036 3/29. ID, local nx and ads. [CD]

PUERTO RICO R. Eco, Cabo Rojo
1650 3/30. With an interview of
some telephone employees opposing
the sale of the telephone company, and IDed as "Notiuno." Ads
for Farmaceria Encarnación.
Usually blocked by local station.
[CO-DR]

940 VENEZUELA R. Fé y Alegria 0100 3/29. IDed exactly on the hour "Transmite R. Fé y Alegria" after end of a pop record. [CD-DR]

940 PUERTO RICO WIPR, LV del Pueblo, San Juan 0102 3/27. Dr. moving my TRF I heard this one presenting a program w/PR singers. [CO-DR]

940 VENEZUELA R. Punto Fijo 1543 3/29. With pop mx, ID, "lambada", and ads. [CO-DR]

950 VENEZUELA R. Vision 9-50, Caracas 0055 3/29. ID in a program of pop mx. This freq usually covered by local R. Popular. [CO]

950 MEXICO XEKAM, Tijuana 0700 4/14.
Gigantic noise spurs on 940/960
tonight instead of usual
B80/1220. Easily separable, and
much louder than the primary
signal on 950! I only count one

high spur and one low spur in my totals, otherwise I'd have counted this station 15 times by now: XEKAM is now running oldies at night, as per tip from Gary Larson. Station ments to double power to 20/10 kW, but is installing a new ground system so maybe they'll clean up their act. Spurs continue 24 hrs a day. [TRH-CA]

950 MEXICO XEPB: Hermosillo SON 0458
4/8 MM. Full YD through local
XEKAM OC/noise. Network is
Radio, S.A. (shown on list
w/abbreviation RDIO, not R. ACIR
as previously listed). [TRH-CA]

960 ARUBA R. Victoria, Dranjestad 2040 3/29 and 1645 3/30. With a religious program. Also ending program in English, the instrumental mx. (CO-DR) (César, the 1991 WRTH shows ARUBA as a country how separate from the Netherlands Antilles; you got a new one! - Jim)

990 MEXICO XEER, Cuauhtemoc 1132 4/29 MM. Huge s/on w/distorted XE anthem, ID by man and "Sistema R. Lobo" jingles. SP and local Indian languages by heavily accented man. Apparent new s/on time. [TRH-CA2]

990 MEXICO XET, Monterrey 1111-1131, 4/29 MM. Poor, u/XETG and XEER OC. Call letter ID by man at 1131. Fairly rare. [TRH-CA2]

990 MEXICO XETG, Tuxtla Gutierrez
1111-1132 4/29. Fair-good
signals but fading, mixing w/XET.
Female DJ, amn w/ads for a
pharmacy and bank in Tuxtla
Gutierrez. Marimba mx noted at
times. Kileld by XEER s/on at
1132. New, an excellent deepsouth XE catch. [TRH-CA2]

1000 VIRGIN ISLANDS R. Dne, St. Thomas 0120 3/30. With a murder drama, many sound effects. (CO-DR)

1000 MEXICO XEMUL, Los Mochis 0500 4/8 MM. Noted w/NRM network programming // 6010 SW. If you hear the SW parallel do not assume you've got Mexico City, as Los Mochis, Mazatlan, or any number of other stations can carry the same program. [TRH-CA]

1020 VENEZUELA R. Calandario,

Maracarbo 0432 3/29. Very good

W/pop mx and a good ID. [CO-DR]

1070 MEXICO XEOBS, Cd. Obregon 1214 4/29. Fair u/KNX w/XE anthem, s/on, IDs. [TRH-CA2]

1150 <u>COLOMBIA unID</u> 0353 3/29. Station heard IDing as "las diez cincuentitres, hora Total de Colombia" (10:53, Total time in Col.) in the program "Música del Recuerdo" with old romantic LA songs. Name of the station is supposed to be R. Total, no location mentioned. First time heard. [CO-DR] (3 Col. stations listed in 1991 WRTH - Jim)

1150 VENEZUELA R. Mundial Caribe.
Punto Fijo 1534 3/29. Pop mx and
lots of ads for enterprises in
the Paraguana Peninsula where
Punto Fijo is located. Greetings
to "temporadistas" (people
vacationing during Holy Week,
from the word "temporada" season). (CO-DR)

1170 VENEZUELA R. Mil Setenta (1070), La Guaira 1528 3/29. With pop mx and ads. Even though they are on 1170 they ID as R. 1070. CCC-DR1

1200 <u>VENEZUELA</u> R. Tiempo, Caracas 1520 3/29. ID following ns and local ads w/some QRM from an or/known station. [CO-DR]

1210 VENEZUELA Anzoátequi, Doscientos Diez (1210), Barcelona 0539 3/29. ID W/pop mx, very good. [CO-DR]

1290 <u>VENEZUELA R. Puerto Cabello</u> 1516 3/??. "Una emisora distinta" w/pop mx and beach info. [CD-DR)

1300 VENEZUELA R. Reloj, Maracaibo 0348 3/29. ID as "el primer lugar es de Reloj en 1300 AM" and pop mx, including a Dominican merengue. (CO-DR)

1310 VENEZUELA R. Nacional de Venezuela 1603 3/30. Il) after a short newscast, then announced other programs including the Concert for Bangla Desh in New York. Not listed in the 1989 WRTH. [CO-DR] (1991 WRTH shows two stations in Barcelona (20 kW) and Guri (10 kW) which relay R. Nacional 630 in Caracas - Jim)



1320 ARUBA VD Aruba, Graniestad 1600 3/30. Pop mw. Papiamento, but musical recording in Spanish. [CO-DR] (see note on 960 - Jim)

1340 COLOMBIA R. Uno. Bogotá 0343 3/29. Lots of "vallenata" mx, ID, and also mention of "RCN, R. Uno." (CO-DR)

- 1340 VENEZUELA R. Uno, Caracas 1555 3/30. "Primera emisora del area metropolitana" (meaning Caracas). Funny to find two stations in different countries and on the same frequency with the same name. Ade for Arab restaurant. recommendations to travellers on beach highways, and Il Castello (an Italian restaurant in Caracas). This is a change of name from R. Especial. [CO-DR]
- 1350 VENEZUELA R. Visión, Falcón, Puerto Cumareno 2047 3/29. Lots of ads and welcoming "temporadistas" to Peninsula Falcon and Punto Fijo. (CO-DR)
- 1380 <u>VENEZUELA</u> <u>Ondas del Mar, Puerto</u> Cabello 1512 3/29. Lots of pop mx and an ID. (CO-DR)
- 1380 MEXICO XEKT, Tecate 2358 4/18. Fair-good signals on car rx even past Santa Barbara w/full IDs mentioning 250 w. Gets out well. CTRH-CA31
- 1450 MEXICO XECB, San Luis Rio Colorado 1330 4/19. Good, on top w/local ads. [TRH-CA4]
- 1600 MEXICO XETCT, Tecate BCN 0653 4/14. Fair w/NRM singles, full ID mentioning 250 w power, XE anthem at 0654. Due to DST, now on summer sked of 1300-0700. LIBH-CAL

#### STATION NEWS

BULGARIA: Domestic Services schedule: Knorizont 24 hrs 261, 576, 594, 774, 963, 1017, 1143, 1161, 1224, 1296. Khristo Botev 0400-2200 648, 828, 864, 873, 963, 1017. Znanie 0700-0800 Su, 0800-1000,1200-1400 Mo-Sa 774. Radio Sofia FS: 1224 (0400-0855, 1430-2225) [AMID via WWDXCl]

COLOMBIA: LV del Guaviare 1170/6035.2 was silenced by a ouerilla attack. [Rafael Rodriguez/Hauser-RCI/WRTH-LANL/

CUBA: The program director of the Radio Progreso network, who was visiting relatives in Miami, decided to ask for political asylum. He did it on the air over WQ8A-1140. Rommel Iglesias says he waited 23 years to make a single sincere statement over the minwaves. [Miami Herald 3-23/World of Radio/UKVK3 Last week of April, Glenn Hauser announted on World of Radio that Arnie Coro (CO2KK), host of Radio Havana's DXers Unlimited, has offered to help Mers with unanswered domestic QSL requests. Write to him, with a copy of your original letter, in Carrier of Radio Haveson (Box 6240, Makana), and Atmie Will try to channel it to the right, person. He also announced 28,885 kHz for radio-oriented

QSOs (1300 UTC Sunday). New on the air, according to Armie, is R. Jaruco 1390 from the town of the same name (northeast of Havana) with 1 kW. Reports may be sent to him. [RHC DXers Unlimited]

GERMANY: R. Aktuell Berlin uses 576. 603, 657, 729, 783, 891, 1017, 1413, 1485, and 1602. [R. Aktuell in WWDXCl]

IRAQ: Baghdad is jamming broadcasts in Arabic from neighboring Iran on 1332, 1467, and 1224 kHz. Shortwave transmissions are not being jammed because the Iraqis have so few transmitters left. Baghdad R. is still heard on 1224 and 1431 kHz, but the transmitter at Basra on 692 seems silent. [S. Virakoon, Sri Lanka on RNMN 3/28 via Mike Fern in NASWA Journal }

KUWAIT: Transmitters inside Kuwait have returned to the air on 540 and 1341 in AA. [R. Measham and J. Marks, RNMN 3/28 via Mike Ferm in NASWA Journal]

NETHERLANDS: Some Free Radio Stations in operation: 1620 R. Baanbreaker and R. Spanninzoeger, 1619 R. Stormvogel, 1617 R. Noorgedacht. [FRN via WWDXC1]

SCANDANAVIA: Trans-Atlantic Top Ten Radio Stations, in order, arm: Beacon-1610, VOCM-590, CJYQ-930, WJXR-1560, CKGA-650, CKXB-670, CKXG-680, HJKH-770, CBGY-750 and WNEW-1130, [UKVK]

SPAIN: Radio 5 has a new advertising space 0723-26 M-F [Molamo/Play-DX/ UKVK], with local service 0700-0800 on Sundays. [Rauch/Play DX/UKVK]

URUGUAY: R. Colomie 551 (nom 550) has been off freq for months. [Povrzenic LADX #128/WRTH-LANL/UKVK1



### CORRECTIONS

Tim Hall caught me with two mistakes on one logging! DIN 58-75, is 890- XENZ, ex-570. Tim also passes this note on to Mark Connelly: "MC-Mr3's tentative XEYQ on 890 can't be them - XEYQ moved to 640 a long time ago."

#### CONTRIBUTORS

- [TRH-CA] Tim Hall, Chula Vista Car Sony ICF-2010, Radio Last Loop. [TRH-CA2] Tim Hall DXing w/Neil Kazaross at San Diego Beverage Site, Poway, CA, Sony ICF-2010, 1500 and 2700 ft bevarages aimed SE. [TRH-CA3] DXing on I-5/I-405/US-101 between Sand Diego and Morro Bay Delco car rx. [TRH-CA4] Morro Bay w/Sony ICF-2010, Radio West Loop, Delco car rx.
- [CO-DR] César Objio, Santo Domingo, Dominican Republic, TRF.



Don Trelford's Bandscan from Runaway Bay, Jamaica April 3-13, 1991

540 - HICM, Santo Domingo, DR (t) 550 - RJR, Montego Bay, JAMAICA 560 - JBC, Kingston, JAMAICA 580 - RJR, Galina, JAMAICA 590 - Reloj, Sta. Clara, CUBA 600 - Rebelde, Urbano Noris, CUBA 610 - unID SS, weak

620 - JBC, Mandeville, JAMAICA 640 - Reloj, in EE, unID

650 - unID (CUBA or DR?) 670 - Progreso, Arroyo Arenas, CUBA

680 - Reloj, Morin, CUBA 690 - Progreso, Cardenas, CUBA

700 - JBC, Montego Bay, JAMAICA 710 - Rebelde, 2 sites, CUBA

730 - unID SS 740 - Progreso, Pinar del Rio, CUBA

750 - JBC, Port Maria, JAMAICA 770 - RJR, Spur Tree, JAMAICA

790 - ??, JAMAICA

800 - Progreso, Manzanillo, CUBA

810 - Progreso, Camagüey, CUBA 840 - Dobleve, Santa Clara, CUBA

850 - unID SS, very weak

870 - Progreso, Sancti Spiritus, CUE 880 - Progreso, Pinar del Rio, CUBA

890 - R. Musica Nat, 3 sites, CUBA

910 - Reloj, Camagüey, CUBA

920 - Reloj, Pilon, CUBA 930 - Reloj, 3 sites, CUBA

940 - Reloj, Colon, CUBA

950 - Reloj, Sancti Spir., CUBA 960 - Reloj, Guantanamo, CUBA

1060 - R. Victoria, Anhancio Rodriguez 1100 - R. Cadena Habana, Habana, CUBA 1110 - R. Datiena Habana, Holguin, CUBA 1120 - R. Cadena Habana, Habana, CUBA 1120 - R. Angula, Mayarı, CUBA 1130 - R. Angulo, Sagua do Tanamo, CUBA 1140 - R. Cadena Habana, Habana, CUBA 1150 - R. Bayamo, Entronque Bueycito 1160 - R. Taino, Habana, CUBA 1170 - unID SS 1180 - Reloj, Nueva Gerona, CUBA 1200 - R. Palma Soriano, CUBA 1210 - unID 1230 - R. 26, Matanzas, CUBA 1240 - unID 1250 - Imias, CUBA 1260 - Reloj, Camagüey, CUBA

1010 - R. Sancti Spiritus, CUBA

1050 - R. Victoria, Las Tunas, CUBA

1280 - R. Enciclopedia, Cardenas, CUBA 1300 - unID, possibly the DR 1310 - Reloj, Pinar del Rio, CUBA

1320 - Reloj, Pinar del Rio, CUBA (weak) 1340 - WGBY, GUANTANAMO BAY

1360 - R. Cadena Habana, Rodolfo Ramirez 1370 - R. Cadena Habana, Nuevitas, CUBA

1380 - R. Cadena Habana, Jaronu, CUBA 1400 - R. Musica Nat., 2 sites, CUBA

1410 - R. Enciclopedia, Pinar del Rio

Bandscan done during the day, late morning or early afternoon. With Don's limited Spanish, there may be some errors as to location (especially as Cuban statuions rarely announce sites). Don hopes to finish 1420-1600 kHz in May visit to Jamaica.

### Trinidad issues 23 radio, TV licences The Jamaican Weekly?

PORT OF PAIN, Trinidad

The year 1991 promises to be a more competitive year for electronic media in Trinidad and Tobago. The Government has issued a string of radio and TV licences — 23 in all - and at least some of the new sa tiens are expected to go on air his year

News of the developments has raised questions here about the country's ability to sustain many radio and To searcions, in terms of available ade mising revenue and dum an resources.

According to the Telecommuni-tion Authority, permission has be engine in for the etablishment of three ness national TV services, cight national radio systems, Sk

cable TV operations and six community stations - divided equally between radio and TV.

How many of the licencees will actually set up business is still unclear

Trinidad Express Newspapers, which publishes one of the two morning dailies here, expects its joint venture radio-to company, Caribbean Communications Network (CCN), to be in place by midyear.

CCN's competition is expected to include A.J. Cable (TV) Enterprises, to be established by Usbased Trinidadian Anthony Mc Phillip, Its market research is still in train, but the company estimates it will be offening Frinidadians 30 and Radio 100 [6] and Trinidad and Tobago Telessic in (TT). NBS with movies, sports, educational,

religious and cultural programming.
Veteran calypsonian "Susmior" says he expects to mobiline about TT\$6 million for a mostly local music radio station, "later this year.

"Superior" — real name Andrew Mercano — says his final mix of music will probably be 80 per cent local and the rest Caribbean and

The traditional electronic media The traditional electronic media here companies: Trinidad Broadcasting; Company, which operates one And (Radio Trinidad) and one FM sec-reo station (Radio 95); National Broadcasting Service (NBS), with a similar complement (41 Radio AM similar complement (610 Radio AM and TTT are go, imment-owned.

via Don Treiford

# Graveyard Achievements

### William Hale

734 Burleson San Marcos, TX 78666-4335

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

### 1240 kHz

### Logged from Jan 1, 1960 to Present

Date of Last Update: Apr 13, 1991

WEBJ	AL	Brewton Butler	Bruce Conti Charles Reh	West Warwick, RI Leamington, ON	1138 752
WULA		Eufaula	Robert Kramer	Chicago, IL	703
WOWL		Florence	Jerry Robertson	Croswell, MI	650
WMGJ		Gadsden	Karl Jeter	Stone Mountain, GA	103
WARF		Jasper	Carl Dabelstein	Lincoln, NE	712
KVRD	AZ	Cottonwood	Gene Allen	Vallejo, CA	691
KSML		Globe	Jim Hilliker	Anahelm, CA	411
KVRC	AR	Arkadelphia	Charles Reh	Leamington_	789
KTLO		Mountain Home	John Malicky	Pittsburgh, PA	732
KWAK		Stuttgart	Charles Reh	Leamington	711
KPOD	CA	Crescent City	Richard E. Wood	Hilo, Hi	2384
KJOP		Lemoore	Doug Lamerson	La'ie Point, HI	2488
KNRY		Monterey	Doug Lamerson	Kane ohe, HI	2409
KPPC		Pasadena	Jim Hilliker	Anahelm	21
KLOA		Ridgecrest	Les Carpenter	El Toro, CA	138
KROY		Sacramento	Gene Nix	Billings, MT	806
KDIG		San Bernardino	Gene Allen	Vallejo	393
KSON		San Diego	Richard E. Wood	Hilo	2512
KSMA		Santa Maria	Doug Lamerson	La'ie Point	2466
KSUE		Susanville	Jim Hilliker	Anahelm	476
KRDO	CO	Colorado Springs	John Wilkins	West Des Moines, IA	621
KDGO		Durango	Gene Allen	Vallejo	797
KSLV		Monte Vista	Rick Carr	Bloomington, IL	949
wwco	CT	Waterbury	Rodney Valdron	Petit Rocher, NB	565
WBGC	FL	Chipley	Don Trelford	Scarborough, ON	952
WEUS		Eustis	Shawn Axelrod	Orlando, FL	30
WINK		Ft. Myers	Charles Reh	Leamington	1069
WMMB		Melbourne	Mauricio Molano	Madrid, Spain	4337
WFOY		St. Augustine	UK DXPedition*	Sheigra, Scotland	3991
WBHB	GA	Fitzgerald	Russ Edmunds	Kinnelon, NJ	816
WGGA		Gainesville	John Buehler	Toledo, OH	715
WLAG		La Grange	Dave Whatmough	Hamilton, ON	650
WBML		Macon	Chris Lucas	Stamford, CT	805
WWNS		Statesboro	Cair Dabelstein	Lincoln	1014
WPAX		Thomasville	Jeff Kosnett	Charleston, WV	527
WTWA		Thomson	Steve Francis	Alcoa, TN	177 5142
KLEI	HI	Kailua	Eric McIntosh	Invercargill, NZ	714
KMCL	ID	McCall	Wayne Heinen	Colorado Springs, CQ Anahelm	649
KFLI		Mountain Home Pocatello	Jim Hilliker	Abisko, Sweden	4348
KWIK	11	Marchanin	Olle Alm Charles Reh	Leamington	257
WEDC	1L	Chicago	Joe Fela	Newark, NJ	703
WEBQ		Chicago Harrisburg	Jeff Falconer	Clinton, ON	543
WTAX		Springfield	Emie Cooper	Provincetown, MA	1029
WSDR		Sterling	Steve Francis	Alcoa	521
WHBU	IN	Anderson	Niel Wolfish	Willowdale, ON	403
KDEC	IA	Decorah	Wayne Helnen	Buffalo, NY	648
KWLC	10	Decorah	John Wilkins	West Des Moines	156
KBIZ		Ottumwa	Charles Reh	Leamington	513
KICD		Spencer	Frank Merrill	Milan, MI	591
KIUL	KS	Garden City	Rick Dau	Oakland, IA	362
KAKE	100	Wichita	Dan Phillips	Talladega, AL	875
WINN	KY	Louisville	Chris Lucas	Troy, AL	705
WETM		Maysville	Charles Reh	Leamington	243
WPKE		Pikeville	Charles Reh	Leamington	321
WSFC		Somerset New Iberla	Russ Edmunds Jerry Starr	Parsippany, NJ Youngstown, OH	615
KANE	LA			Youngstown, OH	991
WCOU	ME	Lewiston	Mike Csorbay	Canfield, ON	484
WMKR		Millinocket	Chris Lucas	Fairfield, CT	385

WJEJJ         Hagerstöwn         Don Lýnch         Lynn, MA         44           WOCB         Mest Yarmouth         Jeny Robertson         Croswell         7           WCST         West Yarmouth         Jeny Robertson         Arnee, MB         66           WCSY         MCP         Cadllac         MB DXPedition#         Arnee, MB         66           WCSY         MCP         MB DXPedition#         Arnee, MB         66           WJDD         Junn         Arnee, MB         66           WJDN         Junn         Arnee, MB         66           WJDN         Junn         Arnee, MB         66           WJDN         Aberdeen         Carl Dabelstein         Arnee, MB           WJDA         Aberdeen         Jerry Starr         Youngstown         66           WJDA         Aberdeen         Jerry Starr         Youngstown         68           WJDA         Aberdeen         Jerry Starr         Youngstown         68           WJDA         Aberdeen         Jerry Starr         Youngstown         68           WMIS         Natchez         Charles Reh         Leamington         56           KEMO         All Elizabert         Charles Reh         Leamington						
WHAI         Amount         John Buelher         Toledo           WOCB         Wast Yarmouth         Jerry Robertson         Croswell         77           WATT         MI         Cadillac         MB DXPeditions         Arnee, MB         68           WJDPD         Cheyboygan         Don Lynch         Lynn         77           WJJM         Lansing         Shawn Axelrod         Winninge, MB         88           WJJM         Hibbing         John Malicky         Pittsburgh         77           KPRK         WJON         St. Cloud         Morrie Scrensen         Leaf Rapida, MB         88           WJDO         Aberdeen         Jerry Starr         Youngstywn         66           WGCM         Greenwood         Frank Merrill         Milan         61           WJDQ         Marlon         Milke Hawk         Omaha, NE         77           WMIS         Natchez         Charles Reh         Learnington         55           KFMO         MD         Flat River         Charles Reh         Learnington         55           KWOS         Ballings         Rick Carr         Bloomington         40         40           KBL         MT         Bullings         Rick Carr	WCEM	MD	Cambridge	Rodney Valdron	Petit Rocher	825
WHAI         American Security         John Buelher         Toledo         55           WOCD         Wast Yarmouth         John Buelher         Tocowell         77           WATT         Mf         Cadillac         MB DXPedition#         Ames         MB         66           WJPD         WJPD         MB DXPedition#         Ames         66         66         67           WJJM         Hibbing         MB DXPedition#         Ames         55         74         Ames         55           WJSD         Allegal         Lansing         Shawn Axelrod         Winninger, MB         88         66           WJON         Allegal         Lansing         Shawn Axelrod         Winninger, MB         88         66           WJON         Aberdeen         Jerry Starr         Ames         55         74	WJEJ		Hagerstown	Don Lynch	Lynn, MA	400
WOCED         West Yarmouth (Cadillac)         Jerry Robertson         Croswell         7.           WCBY         Cadillac         MB DXPedition#         Ames         MB         66           WJPD         Lansing         Don Lynch         Ames         5.           WJJM         MJM         Albibing         Shawn Axelrod         Winnipeg, MB         8.           WGGRM         Hilbbing         Shawn Axelrod         Winnipeg, MB         8.           WGCM         Hilbbing         Carl Dabelstein         Omaha, NE         3.           WGRM         Aberdeen         Jerry Star         Youngstrym         64           WGCM         Aberdeen         Jerry Star         Youngstrym         64           WGCM         Aberdeen         Jerrix Merrill         Millan         88           WGCM         Maron         Charles Reh         Learnington         65         55           KFMO         MO         Falt River         Charles Reh         Learnington         55         56           KWBMY         MT         Billinga         Rick Carr         Biocomington         40           KLYQ         Hamilton         Tim Hall         Kalepell, MT         13           KEJA	WHAI	MA				580
WATT         ME         Cadillac         MB DXPedition#         Ames         88         68           WJDD         Cheyboygan         Don Lynch         Lynn         77           WJJM         MJDD         MB DXPedition#         Lynn         77           WJSM         Hibbing         John Malicky         Pittsburgh         77           WGRM         Park Rapids         Carl Dabelstein         Omaha, NE         33           WGRM         Aberdeen         Jerry Starr         Youngstrym         68           WGRM         Aberdeen         Jerry Starr         Youngstrym         68           WGRM         Greenwood         Frank Merrill         Millan         81           WJDQ         Markon         Milke Hawk         Omaha, NE         77           WMIS         Natcheze         Charles Reh         Learnington         80           WMIS         Markon         Millan         84         84           WMIS         Markon         Millan         84         84           KELK         Marington         65         84         84           KELK         Marington         67         84         84           KELK         Total <t< td=""><td></td><td>140.4</td><td></td><td></td><td></td><td>710</td></t<>		140.4				710
WJPD Ishpeming MJPD Ishpeming MSDXPeditlon# WJPD Ishpeming MSDXPeditlon# WJPD Ishpeming MSDXPeditlon# WJPD WJBM WJSM WJSM WJGM WJGM WJGM WJSM WJSM WJSM WJSM WJSM WJSM WJSM WJS		8.00				
WJPD         Ishpeming         MB DXPedition#         Arnes           WGGR         MN         Hibbing         John Malicky         Pittsburgh         77           KPRK         WJON         St. Cloud         Morris Sorensen         Leaf Rapkia, MB         88           WJONA         Aberdeen         Jerry Starr         Youngstrym         68           WGRM         Amron         Marker         Youngstrym         68           WGRM         Amron         Millan         88           WGCM         Gulfport         Frank Merrill         Millan         88           WJDQ         Marfon         Milke Hawk         Ornaha, NE         77           WMIS         Natchez         Charfes Reh         Leamington         65           KEMO         Natchez         Charfes Reh         Leamington         55           KNEM         Nevada         Carl Dabelstein         Coverland Park, KS         55           KLTZ         Glasgow         Don Kaskey         Sacramento         100           KLYQ         Hamilton         Tim Hall         Kaliseel, MI         11           KELK         Lincoln, Ea Hanninen         Lemanington         66           KELK         Lincoln, Ea		IVII				696
WJJM         Larsing         Shawn Axelood         Winnipee, MB         8           WGGR M         Hibbing         John Malicky         Pittsburgh         77           WJON         St. Cloud         Morris Sorensen         Leaf Rapkda, MB         8           WMPA         Aberdeen         Jerry Starr         Youngstryen         64           WGCM         Guffport         Jernk Merrill         Millan         84           WJDQ         Maron         Mile Hawk         Omaha, NE         77           WMIS         Natchez         Charles Reh         Learnington         84           KEM         Landington         55         16           KWOS         Flat River         Charles Reh         Learnington         55           KIZ         Giasgow         Don Kaskey         Sacramento         50           KIZ         Giasgow         Don Kaskey         Sacramento         10           KELK         Tim Hall         Manena         21           KODY         Nathority         Sacramento         43           KODY         North Platte         Shawn, Axelrod         Winnipeg         61           WSRJ         NJ         Bridgeton         Derek Taylor         <						715
WGGR         MN         Hibbing         John Malicky         Pittaburgh         77           WJON         St. Cloud         Morris Sorensen         Leaf Rapids, MB         84           WJON         MS         Cloud         Morris Sorensen         Leaf Rapids, MB         84           WJON         MS         Aberdeen         Lery Starr         Youngstrwm         68           WGCM         Greenwood         Frank Merrill         Millan         88           WJDQ         Marfon         Mike Hawk         Ornaha, NE         77           WMIS         Natchez         Charles Reh         Learnington         86           KFMC         MG         Flat River         Charles Reh         Learnington         55           KNEM         MI         Nevada         Carl Dabelstein         Oryerians Park, KS         55           KILTZ         Glasgow         Don Kaskey         Saccramento         100           KLYQ         Heinnillon         Im Hall         Kallspell, MT         11           KELK         Elko         Frank Merrill         Alagelen         100           KODY         North Platte         Shawn, Axelrod         Winnipeg         61           KELK         El	WJPD		Ishpeming	MB DXPedition#	Ames	510
WGGR         MN         Hibbing         John Mallcky         Pittsburgh         77           WJON         St. Cloud         Morris Sorensen         Leaf Rapids, MB         84           WJON         MS         Cloud         Morris Sorensen         Leaf Rapids, MB         84           WGRM         MS         Aberdeen         Lery Starr         Youngstzwm         68           WGRM         Greenwood         Frank Merrill         Milan         88           WJDQ         Marion         Mike Hawk         Ornaha, NE         77           WMIS         Natchez         Charles Reh         Learnington         86           KFMO         MG         Flat River         Charles Reh         Learnington         55           KNEM         MI         Nevada         Carl Dabelstein         Overland Park, KS         55           KILTZ         Glasgow         Don Kaskey         Sacramento         100           KLYQ         Hamilton         Im Hall         Kallspell, MT         11           KELK         Elko         Frank Merrill         Nanena         29           KELK         Elko         Frank Merrill         Nanena         29           WFTN         NH         A	WJIM		Lansing	Shawn Axelrod	Winnipeg, MB	813
KPRK WJON         Park Rapids St. Cloud         Carl Dabelsein         Omaha, NE Omes Reapids, MB         88           WMPA         Aberdeen         Jerry Starr         Youngstwm         68           WGCM         Guffport         Frank Merrill         Millan         88           WGCM         Guffport         Frank Merrill         Millan         88           WJDQ         Marion         Milke Hawk         Omaha, NE         77           WMIS         Natchez         Charles Reh         Learnington         58           KWOS         Flat River         Charles Reh         Learnington         55           KWEM         MC         Flat River         Charles Reh         Learnington         55           KNEM         MC         Flat Rapids         Coverland Park, KS         56           KBMY         MT         Billings         Rick Carr         Bloomington         50           KLITZ         Hamilton         Tin Hall         Kalispell, MT         11           KODY         Hamilton         Tin Hall         Kalispell, MT         11           KODY         Hamilton         Each Hänninen         Lemmenjoki, Finland         43           KELK         NV         Elko	WGGR	MN		John Malicky		797
WJON         St. Cloud         Morris Sorensen         Leaf Rapids, MB         88           WGRM         Aberdeen         Jerry Starr         Youngstown         86           WGRM         Aberdeen         Frank Merill         Millan         88           WGCM         March         Charles Reh         Leamington         88           WJODQ         Markon         Mike Hawk         Ornaha, NE         77           WMIS         Natchez         Charles Reh         Leamington         55           KFMC         MG         Filat River         Charles Reh         Leamington         55           KNEM         MIII         Rel         Leamington         55           KNEM         MIII         Rel         Leamington         55           KNEM         MIII         Milling         Rick Carr         Bioomington         50           KLTZ         Glasgow         Don Kaskey         Sacaramento         40           KLTYQ         Hamilton         Imal         Kalispell, MT         11           KELK         Libron         Frank Mernil         Omaha         43           WSNJ         NJ         Bridgeton         Bridgeton         Mintherinal         Mintherinal						390
WMPA         MS         Aberdeen         Jerry Starr         Youngstown         88           WGCM         Guffport         Frank Merrill         Millan         88           WGCM         Guffport         Frank Merrill         Millan         88           WJDQ         Marlon         Milke Hawk         Omaha, NE         77           WMIS         Natchez         Charles Reh         Leamington         58           KWOS         Flat River         Charles Reh         Leamington         55           KWEM         Mell         Flat River         Charles Reh         Leamington         55           KNEM         Nevada         Carl Dabelstein         Cwerland Park, KS         56           KBMY         MT         Billings         Rick Carr         Bloomington         40           KLT         Hamilton         Tin Hall         Kall Kell         Kall         Kelk         Kall         Kelk         Number         Scaramento         40           KODY         North Platte         Shawn, Avelrod         Winnipeg         Kall         Kelk         Number         Frank Merrill         Nanena         21           KELK         NV         Elko         Frank Merrill         Nanena						
WGRM         Greenwood         Frank Merill         Millan         88           WGCM         Gulfport         Frank Merill         Milan         88           WJDQ         Marfon         Mike Hawk         Ornaha, NE         77           WMIS         Natchez         Charles Reh         Leamington         55           KFMC         MO         Filat River         Charles Reh         Leamington         55           KNEM         MI         Glasgow         Coarl Dabelstein         Overland Park, KS         55           KLTZ         Glasgow         Don Kaskey         Sacramento         40           KLTZ         Helena         Carl Dabelstein         Ornaha         18           KEDK         Helena         Carl Dabelstein         Ornaha         43           KELK         Lincoln         Eaa Hänninen         Lemmerjoki, Finland         43           KELK         Elko         Frank Merrill         Namena         21           WSNJ         NJ         Bridgeten         Derek Taylor         Incoln, NE         12           WSNJ         NJ         Bridgeten         Derek Taylor         Chula Vista         A3           KLL         Trank Merrill         Chula Vista <td></td> <td></td> <td></td> <td></td> <td></td> <td>845</td>						845
WGCM         Gulfport         Frank Memili         Millan         88           WMIS         Marlon         Mike Hawk         Omaha, NE         77           WMIS         Natchez         Charles Reh         Leamington         55           KWOS         Alfereor, City         Charles Reh         Leamington         55           KWEM         Nevada         Carl Dabelstein         Overland Park, KS         56           KBMY         MT         Billings         Rick Carl         Bleomington         40           KBMY         MT         Billings         Rick Carl         Bleomington         40           KLTZ         Glasgow         Don Kaskey         Sacramento         40           KLTZ         Helona         Carl Dabelstein         Carl Dabelstein         Carl Dabelstein           KELK         Helona         Carl Dabelstein         Carl Dabelstein         Carl Dabelstein           KELK         North Platte         Shawn, Axelrod         Winnipeg         43           WSNJ         Bridgefen         Persit Merrill         Nanena         21:2           WSNJ         Bridgefen         Persit Merrill         Nanena         21:2           WSNJ         Albiqueeru         Tim Hall </td <td></td> <td>MS</td> <td>Aberdeen</td> <td>Jerry Starr</td> <td>Youngstown</td> <td>666</td>		MS	Aberdeen	Jerry Starr	Youngstown	666
WJDQ         Marfon         Milke Hawk         Omaha, NE         77           WMIS         Natchez         Charles Reh         Leamington         68           KFMQ         MQ         Flat River         Charles Reh         Leamington         68           KWOS         Jefferson City         Charles Reh         Leamington         55           KNEMY         MT         Billings         Rick Car         Billomington         40           KLTZ         Glasgow         Don Kaskey         Sacramento         40           KLTZ         Glasgow         Don Kaskey         Sacramento         40           KLTZ         Glasgow         Don Kaskey         Sacramento         40           KCDY         North Platte         Karin         Minimine         Comaha         88           KODY         North Platte         Sarankilin         Lemmenjoki, Finland         43           WFTN         NH         Franklin         Bob McCoy         Unlond, NE         12           WSNJ         NJ         Bridgeton         Derek Taylor         Preston, England         344           KLTN         NM         Abuquerque         Derek Taylor         Preston, England         344           KLTN<	WGRM		Greenwood	Frank Merrill	Milan	687
WJDQ         Marfon         Milke Hawk         Omaha, NE         77           WMIS         Natchez         Charles Reh         Learnington         68           KFMQ         MQ         Flat River         Charles Reh         Learnington         55           KWOS         Jefferson City         Charles Reh         Learnington         55           KNEMY         MT         Billings         Rick Carr         Bloomington         40           KLTZ         Glasgow         Don Kaskey         Sacramento         40           KLTZ         Glasgow         Don Kaskey         Sacramento         40           KLYQ         Hamilton         Tim Hall         Kalispell, MT         11           KCDY         North Platte         Saker, Akelrod         Minnipegell, Finland         43           KODY         North Platte         Sawar, Akelrod         Minnipegell, Finland         43           WFTN         NH         Franklin         Bob McCoy         Lincoln, NE         12           WSNJ         NJ         Bridgeton         Derek Taylor         Preston, England         34           KLTIN         NM         Abuquerque         Lincoln, NE         77           KALT         Clovia	WGCM		Gulfport	Frank Merrill	Milan	859
WMIS         Natchez         Charles Reh         Learnington           KRMO         MQ         Flat River         Charles Reh         Learnington         55           KWOS         Jefferson City         Charles Reh         Learnington         55           KNEM         Nevada         Coarl Dabelstein         Coarl	WJDQ		Marion	Mike Hawk	Omaha NF	732
KFMO KWOS KWOS KWOS KWEM         QC         Flat River Jeffersory City         Charles Reh Carl Dabelstein         Learnington         55           KNEMY         MT         Billings Billings         Rick Carr Rick Carr Don Kaskey         Billings Sacramento         40           KLTZ KLTZ KLTZ KLTA         Heleina Heilena         Carl Dabelstein Carl Dabelstein         Charles Reh Carl Dabelstein         Cyertand Park, KS         55           KODY KELK         NE         Lincoln         Eas Hänninen         Lemmenjoki, Finland         43           KODY KELK         NV         Elko         Frank Merrill         Nanena         214           WFTN         NH         Franklin         Bob McCoy         Lincoln, NE         122           WSNJ         NJ         Bridgeton         Derek Taylor         Preston, England         344           KAMO         Carlsbad         Dave Margritz         Omaha, NE         77           KCLV         Viningal         Omaha, NE         77           WGSVA         Freeport         UK DXPedition*         Sheigra         344           WGSVA         Jamestown         John Wilkins         West Des Moines         77           WYOS         Wastrown         Valender Wilkins         John Wilkins         Louis, MO						865
KWOS KNEM         Jefferson City         Charles Reh         Learnington           KNEM         Nevada         Carl Dabelstein         Cyerland Park, KS         55           KBMY         MT         Billings         Rick Carr         Bloomington         407           KLTZ         Glasgow         Don Kaskey         Sacramento         400           KLTZ         Hamillon         Tim Hall         McKelk         KITO           KLY         Heiena         Carl Dabelstein         Carl Dabelstein         Carl Dabelstein           KODY         Ne Incoln         Eas Hänninen         Carl Dabelstein         400         Carl Dabelstein         Carl Dabelstein         Carl Dabelstein         400         Carl Dabelstein         Carl Dabelstei		MO				
KNBMY   MT   Billings   Rick Carr   Bicomingtion   407		INIC				
KBMY         MT         Billings         Rick Car         Bioomington         40           KLTZ         Glasgow         Don Kaskey         Sacramento         40           KLYQ         Hamilton         Tim Hall         Kallspell, MT         11           KBLL         Helona         Carf Dabelstein         Cmaha         Londer Dave Manena         43           KODY         North Platte         Shawn, Axelrod         Winnipeg         63         43           KODY         North Platte         Shawn, Axelrod         Winnipeg         63         43           KUTN         NI         Franklin         Bob McCoy         Lincoln, NE         122           WFTN         NH         Franklin         Bob McCoy         Lincoln, NE         12           WSNJ         NJ         Bridgeton         Derek Taylor         Preston, England         34           KLTI         NM         Albuquerque         Tim Hall         Chula Vista         66           KAMO         Carlabed         Dave Margritz         Chula Vista         38           WGSB         NY         Freeport         UK DXP-edition*         Sheigra         38           WGSBB         NY         Freeport         UK DXP-edition*						557
KLTQ		22.22	AME 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		Overland Park, KS	580
KLYCQ         Hamilton         Tim Hall         Kallapell, MT         13           KBLL         Helena         Carl Dabelstein         Comaha         13           KFOR         NE         Lincoln         Esa Hänninen         Lemmenjoki, Finland         43           KODY         North Platte         Shawr, Axelrod         Winnipeg         6           KELK         NV         Elko         Frank Merrill         Assemplate         Minnipeg         6           WFTN         NH         Franklin         Bob McCoy         Lincoln, NE         122           WSNJ         NJ         Bidgelon         Derekt Taylor         Preston, England         344           KLTN         NM         Albuquerque         Tim Hall         Chula Vista, CA         6           KAMO         Carlbad         Dave Margritz         Chula Vista         CA         6           KLOVS         Clovis         Tim Hall         Chula Vista         CA         6           WGVB         Y         Preeport         UK DXPedition*         Sheigra         314           WGVA         Geneva         UK DXPedition*         Sheigra         314           WOSA         Liberty         Valor         Chula Vista	KBMY	MT	Billings	Rick Carr	Bloomington	1074
KLYCQ         Hamilton         Tim Hall         Kallspell, MT         13           KBLL         Helena         Carl Dabelstein         Card Dabelstein </td <td>KLTZ</td> <td></td> <td>Glasgow</td> <td>Don Kaskey</td> <td>Sacramento</td> <td>1001</td>	KLTZ		Glasgow	Don Kaskey	Sacramento	1001
KBLL         Helena         Carl Dabelstein         Omaha         48           KFOR         NE         Lincoln,         Eaa Hännihen         Lemmenjoki, Finland         48           KODY         North Platte         Shawn, Axelrod         Winnipeg         63           WFTN         NH         Frankilin         Bob McCoy         Lincoln, NE         124           WSNJ         NJ         Bridgeton         Derek Taylor         Preston, England         34           KAMO         Carlsbad         Dave Margrtz         Chula Vista, CA         66           KAMO         Carlsbad         Dave Margrtz         Omaha, NE         77           KCLV         Clovis         Tim Hall         Chula Vista         34           WGVA         Geneva         Rich Eddie         St. Louis, MO         77           WJTN         Jameetown         Joh Wilkins         West Des Moines         74           WWJTN         Jameetown         Joh Wilkins         West Des Moines         77           WWD         Schenectady         Rodney Valdron         Petit Rocher         52           WWND         Waterlown         William Townshend         Washington, DC         33           WST         Charlotte	KLYO					135
KFOR         NE         Lincoln         Esa Hänninen         Lemmenjoki, Finland         433           KODY         North Platte         Shawr, Avelrod         Winnipeg         621           KELK         NV         Elko         Franklin         Bob McCoy         Lincoln, NE         122           WFTN         NH         Franklin         Bob McCoy         Lincoln, Reministry         12           WSNJ         J         Bridgeton         Derek Taylor         Preston, England         344           KLTN         NM         Albuquerque         Tim Hall         Chula Vista         6           KCLV         Clovis         Tim Hall         Chula Vista         8           WGSB         NY         Freeport         UK DXPedition*         Sheigra         314           WGVA         Geneva         UK DXPedition*         Sheigra         314           WJNT         Jamestown         John Wilkins         West Des Moines         72           WYOS         Liberty         Schenectady         Wohn Wilkins         West Des Moines         72           WWWD         Schenectady         Rodney Valdron         West Des Moines         72           WPNF         NC         Brevard         Rodney V						
KODY         North Platte         Shawn Axelrod         Winnipeg         6           KELK         NV         Elko         Frank Merrill         Nanena         215           WFTN         NH         Franklen         Bob McCoy         Lincoln, NE         125           WSNJ         NJ         Bridgeton         Derek Taylor         Preston, England         341           KAMO         Carlsbad         Dave Margritz         Omaha, NE         77           KAMO         Clovis         Tim Hall         Chula Vista         86           KCLV         Clovis         Tim Hall         Chula Vista         88           WGBB         NY         Freeport         UK DXPedition*         Sheigra         314           WGSVA         Geneva         Rich Eddie         St. Louis, MO         77           WVOS         Liberty         Joe Kureth         Uniontown, MD         16           WNBZ         Saranac Lake         Don Lynch         Lynn         26           WWND         Watertown         William Townshend         Washington, DC         33           WATN         Watertown         William Townshend         Washington, DC         34           WCNC         Brevard         Rod		AIC				
KELK         NV         Elko         Franklin         Bob McCoy         Lincoln, NE         21/2           WSNJ         NJ         Bridgeton         Derek Taylor         Preston, England         344           KLTN         NM         Albuquerque         Tim Half         Chula Vista, CA         66           KAMO         Carlsbad         Dave Margritz         Omaha, NE         77           KCLV         Clovis         Tim Half         Chula Vista         86           WGSB         NY         Freeport         UK DXPedition*         Sheigra         314           WGVA         Geneva         Rich Eddie         St. Louis, MO         78           WJTN         Jamestown         John Wilkins         West Des Moines         74           WWWD         Schenectady         Rodney Valdron         Petit Rocher         52           WWWT         Schenectady         Rodney Valdron         Petit Rocher         52           WSIT         Watertown         William Townshend         Washington, DC         33           WSIT         Charlotte         Rich Eddie         St. Louis         77           WJINC         Jacksonville         Andy Rugg         Montreal         72           WJ		ME				
WFTN         NH         Franklin         Bob McCoy         Lincoln, NE         122           WSNJ         NJ         Bridgeton         Derek Taylor         Preston, England         341           KLTN         NM         Albuquerque         Tim Half         Chula Vista, CA         83           KAMO         Carlsbad         Dave Margritz         Omaha, NE         77           KCLV         Clovis         Tim Half         Chula Vista         88           WGSBB         NY         Freeport         UK DXPedition*         Sheigra         314           WGVA         Geneva         Rich Eddie         St. Louis, MO         76           WJTN         Jamestown         John Wilkins         West Des Moines         74           WVOS         Liberty         Joe Kureth         Uniontown, MD         14           WWNBZ         Saranac Lake         Dor Lynch         Lynn         20           WWND         Schenectady         Rodney Valdron         Petit Rocher         55           WATN         Wastrown         Montreal         Petit Rocher         122           WST         Charlotte         Andy Rugg         Montreal         Petit Rocher         122           WSIST						618
WFTN         NH         Franklin         Bob McCoy         Lincoln, NE         12s           WSNJ         J         Bridgeton         Derek Taylor         Preston, England         344           KLTN         NIM         Albuquerque         Tim Hall         Chula Vista, CA         62           KLTN         NIM         Albuquerque         Tim Hall         Chula Vista         86           KLTN         NIM         Albuquerque         Tim Hall         Chula Vista         86           KCLV         Covis         Tim Hall         Chula Vista         86           WGSB         NY         Freeport         UK DXPedition*         Sheigra         314           WGSVA         Geneva         Rich Eddie         St. Louis, MO         74           WJTN         Jamestown         John Willkins         West Des Moines         74           WVNS         Saranac Lake         Don Lynch         Lynn         20           WWWD         Schenectady         Rodney Valdron         Petit Rocher         55           WATN         Wastrown         Rodney Valdron         Petit Rocher         123           WEST         Charlotte         Andy Rugg         Montreal         74           W					Nanena	2140
WSNJ         NJ         Bridgeton         Derek Taylor         Preston, England         341           KLTN         NIM         Albuquerque         Tim Halt         Chula Vista, CA         62           KAMO         Carfisbad         Dave Mangritz         Ornaha, NE         77           WGVBB         NY         Freeport         UK DXPedition*         Sheigra         314           WGVBA         Geneva         Rich Eddie         St. Louis, MO         76           WJTN         Jamestown         John Willkins         West Des Molnes         74           WJTN         Jamestown         John Willkins         West Des Molnes         74           WNDS         Liberty         Joe Kureth         Unionfown, MD         19           WNWDS         Liberty         Joe Kureth         Unionfown, MD         19           WATN         Watertown         William Townshend         Washington, DC         33           WATN         Watertown         William Townshend         Washington, DC         34           WST         Charlotte         Andy Rugg         Montreal         77           WCNC         Elizabeth City         Rich Eddie         St. Louis         78           WJNC         Jaccson	WFTN	NH	Franklin	Bob McCov	Lincoln, NE	1293
KLTN	WSNJ	NJ	Bridgeton			3417
KAMO KCLV         Cartsbad Clovis         Dave Margrtz Tim Hall         Omaha, NE         77           KCLV         Clovis         Tim Hall         80           WGSB         NY         Freeport         UK DXPedition*         Sheigra         314           WGVA         Geneva         Rich Eddie         St. Louis, MO         76           WJTN         Jamestown         Joh Wilkins         West Des Molnes         76           WJNT         Jamestown         Joh Wilkins         West Des Molnes         74           WNBZ         Saranac Lake         Don Lynch         Lynn         20           WWWD         Schenectady         Rodney Valdron         Petit Rocher         52           WATN         Waterlown         William Townshend         Washington, DC         33           WSIST         Charlotte         Andy Rugg         Montreal         77           WCNC         Elizabeth City         Rich Eddle         St. Louis         78           WJNC         Jacksonville         Andy Rugg         Montreal         77           WJNC         Raleigh         Don Lynch         Lynn         86           WBJ         Paleigh         Andy Rugg         Montreal         42      <						621
KCLV         Clovis         Tim Hall         Chula Vista         86           WGBB         NY         Freeport         UK DXPedition*         Sheigra         314           WGVA         Geneva         Rich Eddie         St. Louis, MO         76           WJTN         Jamestown         John Wilkins         West Des Moines         72           WWD         Jamestown         John Wilkins         West Des Moines         72           WWWD         Schenectady         Rodney Valdron         Petit Rocher         52           WATN         Watertown         William Townshend         Washington, DC         33           WST         Charlotte         Rodney Valdron         Petit Rocher         123           WIST         Charlotte         Andy Rugg         Montreal, PQ         44           WJNC         Jacksonville         Andy Rugg         Montreal         72           WJNC         Wilkesboro         Mike Caorbay         Carffeld         48           WBBW         OH         Youngstown         Andy Rugg         Montreal         42           WHIZ         Zanesville         Joe Kureth         Uniontown         24           KVSO         OK         Ardmore         John Wilk		1 4141				
WGBB         NY         Freeport         UK DXPedition*         Sheigra         314           WGVA         Geneva         Rich Eddie         St. Louis, MO         78           WJTN         Jamestown         John Wilkins         West Des Molnes         74           WVOS         Liberty         Joe Kureth         Uniontown, MD         41           WNBZ         Saranac Lake         Don Lynch         Lynn         20           WWWD         Schenectady         Rodney Valdron         Petit Rocher         55           WATN         Watertown         William Townshend         Washington, DC         33           WST         Charlotte         Andy Rugg         Montreal, PQ         42           WST         Charlotte         Andy Rugg         Montreal         72           WJNC         Jacksonville         Andy Rugg         Montreal         73           WJNC         Wilkesboro         Mike Csorbay         Canfield         48           WBBW         OH         Youngstown         Andy Rugg         Montreal         43           WHIZ         Zaneaville         Joe Kureth         Uniontown         22           KVSO         OK         Ardmore         John Wilkins						778
WGVA Geneva Rich Eddie St. Louis, MO 76 WJTN Jamestown John Wilkins West Des Moines 77 West Des Moines 78 We		140202				808
WGVA         Geneva         Rich Eddie         St. Louis, MO         72           WJTN         Jamestown         John Wilkins         West Des Molnes         74           WVOS         Liberty         Joe Kureth         Uniontown, MD         19           WNBZ         Saranac Lake         Don Lynch         Lynn         20           WWWD         Schenectady         Rodney Valdron         Petit Rocher         52           WATN         Watertown         William Townshend         Washington, DC         38           WPNF         NC         Brevard         Rodney Valdron         Petit Rocher         123           WIST         Charfotte         Andy Rugg         Montreal         76           WIST         Charfotte         Andy Rugg         Montreal         77           WJNC         Jacksonville         Andy Rugg         Montreal         77           WPJL         Raleigh         Don Lynch         Lynn         61           WPJL         Raleigh         Don Lynch         Lynn         61           WBBW         OH         Youngstown         Andy Rugg         Montreal         42           WHIZ         Zanesyllle         Joe Kureth         Uniontown         22 </td <td></td> <td>NY</td> <td>Freeport</td> <td>UK DXPedition*</td> <td>Sheigra</td> <td>3146</td>		NY	Freeport	UK DXPedition*	Sheigra	3146
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WNDZ Saranac Lake Don Lynch Lynn 20 WWWD Schenectady Rodney Valdron Petit Rocher 55 WATN Watertown William Townshend Washington, DC 35 WST Charlotte Andy Rugg Montreal, PQ 45 WST Charlotte Andy Rugg Montreal Chynn 61 WSJNC Jacksonville Andy Rugg Montreal Chynn 61 WWWC WSIL Raleigh Don Lynch Lynn 61 WWWC WSIL Raleigh Don Lynch Lynn 61 WWWC WSIL Raleigh Don Lynch Lynn 61 WSDW OH Youngstown Andy Rugg Montreal 45 WSDW OH Youngstown Andy Rugg Montreal 45 WSDW OH Youngstown Andy Rugg Montreal 45 WSSO OK Ardmore John Wilkins Wheat Ridge CO 57 KADS Elk City Bill Hate Mountain Home, ID 102 KOKL Okmutges John Wilkins Wheat Ridge 55 KCVL OR Colville Nancy Hardy Aberdeen, WA 25 KFLY Corvallis Esa Hänninen Lemmenjok 44 KTIX Pendleton Olie Alm Abisko, Sweden 425 KQEN Roseburg Gene Allen Vallejo 36 WRTA PA Altoona Steve Francis Alcoa 43 WYGL Sellnsgrove Rodney Valdron Petit Rocher 73 WHUM Reading Steve Francis Alcoa 43 WYGL Sellnsgrove Rodney Valdron Petit Rocher 63 WWON RI Woonsocket Steve Whitt Sheigra, Scotland 30 WKDK SC Newberry Mike Csorbay Sumter Rodney Valdron Petit Rocher 63 WWON RI Woonsocket Steve Whitt Sheigra, Scotland 30 WKDK SC Newberry Mike Csorbay Sumter Rodney Valdron Petit Rocher 63 WWON RI Woonsocket Steve Whitt Sheigra, Scotland 30 WKDK SC Newberry Mike Csorbay Sumter Rodney Valdron Petit Rocher 63 WSDI Repetite Pare Bow Whatmough Canfield Montal 194 WSDI Nashville Don Lynch Lamington 48 WSDI Nashville Don Lynch Leamington 48 WEDG Soddy-Datsy Charles Reh Leamington 74 KORA Bryan Frank Merill Millan 105	WJTN		Jamestown	John Wilkins		747
WNBZ Saranac Lake Don Lynch Lynn 20 WWWD Schenectady Rodney Valdron Washington, DC 35 WPNF NC Brevard Rodney Valdron Petit Rocher 423 WST Charlotte Andy Rugg Montreal, PQ 44 WSNC Elizabeth City Rich Eddle St. Louis 75 WJNC Jacksonville Andy Rugg Montreal 77 WWWC Wilkesboro Mike Coorbay Carifield 44 WBLR ND Devils Lake Morris Sorensen Leaf Rapids 56 WBBW QH Youngstown Andy Rugg Montreal 43 WHIZ Zanesville Joe Kureth Uniontown 25 KVSO OK Ardmore John Wilkins Wheat Ridge CO 57 KADS Elk City Bill Hale Mountain Home, ID 102 KVCU OR Colville Nancy Hardy Aberdeen, WA 25 KCVL OR Colville Nancy Hardy Aberdeen, WA 25 KVEY Corvallis Esa Hänninen Lemenjoki 44 KQEN Roseburg Gene Allen Vallejo 36 WRTA PA Altoona Steve Francis Alcoa 43 WYGL Sellnsgrove Rodney Valdron Petit Rocher 73 WYON RI Woonsocket Steve Whitt Shelgra, Scotland 300 WKDA VWWC Steve Francis Alcoa 15 WKON RI Woonsocket Steve Whitt Shelgra, Scotland 300 WKDA Nashville Don Lynch Lynn 64 WELR Fayetteville Steve Francis Alcoa 15 WKOLR Sc Newberry Mike Csorbay Carifield 66 WKDA Nashville Andy Rugg Montreal 45 WCCR SD Pierre Dave Whatmough Hamilton 104 WELR Fayetteville Steve Francis Alcoa 15 WKOLR Nashville Andy Rugg Montreal 45 WKOLA Nashville Steve Francis Alcoa 15 WKOLA Nashville Don Lynch Lynn 94 WELR Fayetteville Steve Francis Alcoa 15 WKOLA Nashville Don Lynch Lynn 94 WELR Fort Dave Whatmough Hamilton 104 WELR FX Alpine John Wilkins Fort Davis, TX 12 WENK Union City Harry Hayes Gouldsboro, PA 76 WEAR FYAN HERRIEL TO THE TRANSPORT TO THE TR						195
WWWD Schenectady Rodney Valdron Washington, DC Watertown William Townshend Washington, DC 33 WPNF NC Brevard Rodney Valdron Petit Rocher 122 WIST Charlotte Andy Rugg Montreal, PQ 42 WCNC Elizabeth City Rich Eddle St. Louis 78 WJNC Jacksonville Andy Rugg Montreal PQ 42 WNJNC Jacksonville Andy Rugg Montreal 77 WWWC Wilkesboro Mike Csorbay Carffield 48 WJNC Wilkesboro Mike Csorbay Carffield 48 WBBW OH Youngstown Andy Rugg Montreal 43 WHIZ Zanesville Joe Kureth Uniontown 25 KADS Elk City Bill Hale Mountain Home. ID 102 KOKL Okmutgee John Wilkins Wheat Ridge 55 KCVL OR Colfille Nancy Hardy Aberdeen, WA 25 KFLY Corvallis Esa Hänninen Lemmenjoki 44 KTIX Pendleton Olle Alm Abisko, Sweden 42 KFLY Corvallis Esa Hänninen Lemmenjoki 44 KTIX Pendleton Olle Alm Abisko, Sweden 42 KFLY Corvallis Esa Hänninen Lemmenjoki 44 WYGL Wilkes-Barre Rodney Valdron Petit Rocher 73 WWDAX Wilkes-Barre Rodney Valdron Petit Rocher 73 WWDAX Sellnsgrove Rodney Valdron Petit Rocher 74 WWDAX Sumter Roseburg Gene Allen One Petit Rocher 75 WWDAX Sumter Rodney Valdron Petit Rocher 75 WWDAX Nashville Don Lynch Lamington Associated Associated Rod Montreal 86 WCDG Soddy-Datsy Chartes Reh Leamington Associated Rod WCDG Roddy-Datsy Chartes Reh Leamington Associated Rod WCDG Rod Petit Rocher 75 Rodney Valdron P						
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WCNC WJNC Jacksonville Andy Rugg Montreal 78 WPJL Ralelgh Don Lynch Lynn 61 WWWC Wilkesboro Mike Csorbay Canfield 48 WBBW OH Youngstown Andy Rugg Montreal 47 WHIZ Zanesville Joe Kureth Unlontown 28 KKSO OK Ardmore John Wilkins Wheat Ridge Wountain Home. ID 102 KKOL Okmutges John Wilkins Wheat Ridge St. Louis 78 Montreal 48 WHIZ Zanesville Joe Kureth Unlontown 29 KKSO OK Ardmore John Wilkins Wheat Ridge St. Co St	WIST		Charlotte		Montreal PO	438
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WPJL         Raleigh         Don Lynch         Lynn         61           WWWC         Wilkesboro         Mike Csorbay         Canfield         48           KDLR         ND         Devils Lake         Morris Sorensen         Leaf Rapids         56           WBBW         OH         Youngstown         Andy Rugg         Montreal         43           WHIZ         Zanesville         Joe Kureth         Uniontown         25           KVSO         OK         Ardmore         John Wilkins         Wheat Ridge         C0           KVSD         Elk Clty         Bill Hale         Mountrain Home, ID         102           KOKL         Okmutges         John Wilkins         Wheat Ridge         57           KCVL         OR         Colville         Nancy Hardy         Aberdeen, WA         25           KCVL         OR         Colville         Nancy Hardy         Aberdeen, WA         24           KFLY         Corvallis         Esa Hänninen         Lemmenjoki         44           KTIX         Pendleton         Oile Alm         Abisko, Sweden         425           KQEN         Roseburg         Gene Allen         Vallejo         36           WRTA         PA						
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WHIZ Zanesville Joe Kureth Uniontown 25 KVSO OK Ardmore John Wilkins Wheat Ridge CO 55 KADS Elk City Bill Hale Mountain Home, ID 102 KOKL Okmutges John Wilkins Wheat Ridge 55 KCVL OR Colville Nancy Hardy Aberdeen, WA 25 KFLY Corvallis Esa Hänninen Lemmenjoki 444 KTIX Pendleton Olle Alm Abisko, Sweden 425 KQEN Roseburg Gene Allen Vallejo 36 WRTA PA Altoona Steve Francis Alcoa 45 EBS Philadelphia Dan Phillips Clinton, TN 63 WYGL Selinsgrove Rodney Valdron Petit Rocher 73 WYGL Selinsgrove Rodney Valdron Petit Rocher 67 WWON RI Woonsocket Steve Whitt Shelgra, Scotland 300 WKDK SC Newberry Mike Csorbay Carrifeld 66 WOXY Sumter Russ Edmunds Parsippany 56 KCCR SD Plerre Dave Whatmough Hamilton 104 WREJ TN Elizabethtown Carl Dabelstein Omaha 75 WKKR Fayetteville Steve Francis Alcoa 15 WKDA Nashville Don Lynch Lynn 94 WKDA Nashville Don Lynch Learnington 48 WKDA Brownwood John Wilkins Fort Davis TX Alpine John Wilkins Fort Davis TX KCRA Brownwood John Wilkins Frank Merrill			Devils Lake	Morris Sorensen	Leaf Rapids	500
WHIZ         Zanesville         Joe Kureth         Uniontown         25           KVSO         OK         Ardmore         John Wilkins         Wheat Ridge CO         57           KADS         Elk City         Bill Hale         Mountain Home. ID         102           KOKL         Okmuges         John Wilkins         Wheat Ridge         57           KCVL         OR         Colville         Nancy Hardy         Aberdeen, WA         25           KFLY         Corvallis         Esa Hänninen         Lemmenloki         44           KTIX         Pendleton         Olle Alm         Abisko, Sweden         425           KQEN         Roseburg         Gene Allen         Vallejo         36           WRTA         PA         Altoona         Steve Francis         Alcoa         43           EBS         Philladelphia         Dan Phillips         Clinton, TN         63           WYGI         Reading         Steve Francis         Alcoa         43           WYGI         Selinsgrove         Rodney Valdron         Petit Rocher         73           WWDA         Ri         Woonsocket         Steve Whitt         Shelgra, Scotland         30           WKDK         SC	WBBW	OH	Youngstown	Andy Rugg	Montreal	438
KVSO OK Ardmore Elk City Bill Hale Mountain Home. ID 102 KADS Elk City Bill Hale Mountain Home. ID 103 KOKL Okmulges John Wilkins Wheat Ridge 57 KCVL OR Colville Nancy Hardy Aberdeen, WA 25 KFLY Corvallis Esa Hänninen Lemmenjoki 444 KTIX Pendleton Olle Alm Ablsko, Sweden 425 KQEN Roseburg Gene Allen Vallejo 36 WRTA PA Altoona Steve Francis Alcoa 43 EBS Philladelphia Dan Phillips Clinton, TN 63 WHUM Reading Steve Francs Alcoa 43 WYGL Selinsgrove Rodney Valdron Petit Rocher 73 WBAX Wilkes-Barre Rodney Valdron Petit Rocher 67 WWON RI Woonsocket Steve Whitt Sheigra, Scotland 300 WKOK SC Newberry Mike Csorbay Canfield 66 WDXY Sumter Russ Edmunds Parsippany 56 KCCR SD Plerre Dave Whatmough Hamilton 104 WBEJ TN Elizabethtown Carl Dabelstein Omaha 75 WEKR Fayetteville Steve Francis Alcoa 15 WKDA Nashvillie Don Lynch Lynn 94 WEDG Soddy-Datsy Charles Reh Leamington 48 WENK Union City Harry Hayes Gouldsboro, PA 75 KORA Bryan Frank Merrill Milan	WHIZ		Zanesville		Uniontown	255
KADS KOKL Okmutges John Wilkins Wheat Ridge Street KCVL OR Colville Nancy Hardy Aberdeen, WA 25 KFLY Corvalils Esa Hänninen Lemmenjoki 444 KTIX Pendleton Olle Alm Abisko, Sweden 425 KQEN Roseburg Gene Allen Vallejo WRTA PA Altoona Steve Francis Alcoa 43 WHUM Reading Steve Francis Alcoa 43 WYGL Sellnsgrove Rodney Valdron WWON RI Woonsocket Steve Whitt Shelgra, Scotland 30 WKDK SC Newberry Mike Csorbay Canfield WDXY Sumter Russ Edmunds Parsippany Steve Francis Alcoa 43 Clinton, TN 63 Clinton, TN 63 Alcoa 43 Clinton, TN 63 Clinton,	KVSO	OK				578
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KFLY         Corvalils         Esa Hänninen         Lemmenjoki         444           KTIX         Pendleton         Olle Alm         Abisko, Sweden         425           KQEN         Roseburg         Gene Allen         Vallejo         36           WRTA         PA         Altoona         Alcoa         43           WRTA         PA         Altoona         Alcoa         43           WHUM         Reading         Steve Francis         Alcoa         43           WYGL         Sellnsgrove         Rodney Valdron         Petit Rocher         73           WBAX         Wilkes-Barre         Rodney Valdron         Petit Rocher         97           WWON RI         Woonsocket         Steve Whitt         Shelgra, Scotland         30           WKDK         SC         Newberry         Milke Csorbay         Canfield         61           WDXY         Sumter         Russ Edmunds         Parsippany         56           KCCR         SD         Plerre         Dave Whatmough         Hamilton         10           WBEJ         TN         Elizabethtown         Carl Dabelstein         Omaha         75           WEKR         Fayetteville         Steve Francis         Alcoa <td></td> <td>00</td> <td></td> <td></td> <td></td> <td>574</td>		00				574
KTIX         Pendleton         Olle Alm         Abisko, Sweden         425           KQEN         Roseburg         Gene Allen         Vallejo         36           WRTA PA         Altoona         Steve Francis         Alcoa         43           EBS         Philladelphia         Dan Phillips         Clinton, TN         63           WHUM         Reading         Steve Francis         Alcoa         43           WYGL         Selinsgrove         Rodney Valdron         Petit Rocher         73           WBAX         Wilkes-Barre         Rodney Valdron         Petit Rocher         73           WWON         Ri         Woonsocket         Steve Whit         Sheigra, Scotland         30           WKDK         SC         Newberry         Milke Csorbay         Canfield         60           WDXY         Sumter         Russ Edmunds         Parsippany         58           KCCR         SD         Pierre         Dave Whatmough         Hamilton         104           WBEJ         TN         Elizabethtown         Carl Dabelstein         Omaha         78           WEIR         Knoxville         Andy Rugg         Montreal         80           WKDA         Nashville         <		OR	Colville	Nancy Hardy	Aberdeen, WA	295
KTIX         Pendleton         Olle Alm         Ablsko, Śweden         425           KQEN         Roseburg         Gene Allen         Vallejo         36           WRTA         PA         Altoona         Steve Francis         Alcoa         4           EBS         Philadelphia         Dan Phillips         Clinton, TN         63           WHUM         Reading         Steve Francis         Alcoa         43           WYGL         Selinsgrove         Rodney Valdron         Petit Rocher         73           WBAX         Wilkes-Barre         Rodney Valdron         Petit Rocher         67           WWDK         Scotland         30         30           WKDK         SC         Newberny         Milke Csorbay         Canfield         60           WDXY         Sumter         Russ Edmunds         Parsippany         56           KCCR         SD         Plerre         Dave Whatmough         Hamilton         104           WBEJ         TN         Elizabethtown         Carl Dabelstein         Omaha         75           WEKR         Fayetteville         Steve Francis         Alcoa         15           WBIR         Knoxville         Andy Rugg         Montreal	KFLY		Corvallis	Esa Hänninen	Lemmenjoki	4445
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KXOX WSKI	VT	Sweetwater Montpeller	Charles Reh Dave Schmidt	Leamington New Castle, DE	1180 355
WSSV	VA	Petersburg Roanoke	Andy Rugg Andy Rugg	Montreal Montreal	610 652
WTON KXLE KGY	WA	Staunton Ellensburg	Andy Rugg Don Kaskey	Montreal Sacramento	579 585
WKOY	WV	Olympia Bluefield Charleston	Tim Hall Don Lynch	Kamloops, BC Lynn	276 647
WDNE	***	Elkins	Niel Wolfish Rodney Valdron	Toronto Petit Rocher	386 935
WOMT	WI	Manitowoc Poynette	Rich Eddie Morris Sorensen	St. Louis Amaranth, MB	405 644
WOBT		Rhinelander Rice Lake	Jerry Starr Charles Reh	Youngstown Leamington	542 512
KFBC KEVA	WY	Cheyenne Evanston	Carl Dabelstein Bob McCov	Omaha	473
KASL		Newcastle	Mike Hardester	Lincoln NAS Miramar, CA	471 1041
WALO	PR	Thermopolis Humacao	Bill & Nancy Hardy Cesar Objio	Aberdeen, WA Santo Domingo, DR	787 268
CFEK	BC	Femle Hope	Roy Millar Tim Hall	Bellevue, WA Banff, AB	360 288
CKMK		Mackenzie Osoyoos	Frank Memill Tim Hall	Nanena Banff	1085
CJAV		Port Alberni Port Hardy	Nancy Hardy Frank Merrill	Aberdeen Nanena	163 1233
CKWL	MB	Williams Lake The Pas	Roy Millar	Marysville	324
CKIM	NF	Baie Verte	Esa Hänninen Esa Hänninen	Lemmenjoki Sillinjarvi, Finland	3545 3071
CJCD	NT ON	Yellowknife Atikokan	Esa Hänninen Shawn Axelrod	Lemmenjoki Winnipeg	3162 308
CJNH		Bancroft Britt	Jeff Falconer Morris Sorensen	Clinton Emsdale, ON	217
CJCS		Stratford Wawa	Joe Buehler Morris Sorensen	Toledo God's Narrows, MB	205 935
CJRW	PI	Summerside Cabano	Mark Hattam Esa Hänninen	Sheigra, Scotland	2514
CJMD	1 04	Chibougamau	Mike Csorbay	Lemmenjoki Canfield	3363 540
CKLS		Lac-Etchemin La Sarre	Christian DeHaes Esa Hänninen	Chicoutimi Lemmenjoki	141 3479
CKLM		La Tuque Levis	Joe Kureth Paul Mount	Uniontown Teaneck, NJ	580 450
CKBS	SK	St. Hyacinthe Meadow Lake	Rodney Valdron Esa Hänninen	Petit Rocher Lemmenjoki	375 3637
ZNS2 4VJH	BAH	Nassau Port-au-Prince	Charles Reh Cesar Objio	Leamington Santo Domingo	1209 159
XESI	NAY	Santiago Ixcuintia Guaymas		on SE of Cabo San Lucas, Poway, CA	
XECG XES	TAMS	Nogales Tampico	Robert Wien Rick Carr	San Jose, CA Austin	755 560
TGK ZYH654	GTM B	Guatemaia City Candinde	Niel Wolfish UK DXPedition*	Toronto, ON Shelgra	2108
HJFG OAZ4Q	CLM	Armenia Huacho	Eric Bueneman Richard E. Wood	Hazlewood, MO Hilo	4731 2539 5732

\* UK DXPedition [Steve Whitt, Mark Hattam, Clive Rooms] # MB DXPedition [Shawn Axelrod, Wayne McRae]

### AM Radio Station Maps by Bill Hale

Complements the NRC AM Radio Log Large type ... maps show location of stations ... easy to keep up-to-date. Only \$9.50, NRC members; \$10.50, Canadian members, \$11.95, non-members. Overseas customers, please write. Order from NRC Publications - Box 164 - Mannsville, NY 13661 or use your credit card (VISA/ MC) and call (608) 423-4159.

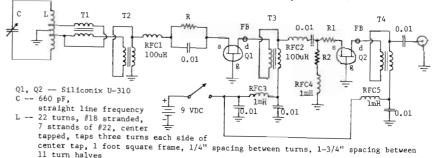


### High-Performance One-Foot Air Core Loop ...by Dallas Lankford

In my recent article "What's Wrong With Present Day Loop Antennas" I observed as others before me have observed that a 4 foot air core loop is too large for most DXers, and agreed with Russell Edmunds and Ralph Sanserino that a 2 foot air core loop is a reasonable starting point for a high performance loop antenns. And in my companion article "High Dynamic Range Balun Loops" I presented two unamplified and one amplified 2 foot air core loops. But a 2 foot air core loop is still quite large and not easy to move around. This motivated me to develop a 1 foot air core loop and companion amplifier which are not much larger than a ferrite rod loop, but which have demonstrably better performance -- a lower noise floor (better sensitivity), and much better strong signal handlind performance.

The main problem with developing a high performance 1 foot air core loop was the amp. The improved balanced differential amp (BDA) in the first article above, while adequate for ferrite rod loops, had detectable 2nd order IMD products when used with a 1 foot air core loop. Tapping the BDA input down on the 1 foot air core loop improved the IMD somewhat, but did not eliminate the spurious responses completely. The U-310 amp for the 2 foot loop was tried with the 1 foot loop, but the amp gain was slightly inadequate for the 1 foot loop. The solution was to add a second U-310 amp.

The dual U-310 amp in Fig. 1 below is identical to the amp for my 2 foot loop (in Fig. 5 of the second article above) up to T3. A different source bias circuit is required for Q2 to isolate the source of Q2 from +9 volts DC applied to the drain of Q1 through T3. The source bias resistor for Q2 is the combined resistance of R1 and R2. It is split into two parts because with the standard circuit (R1 = 0 and R2 = R) amp gain is not uniform throughout the MW band; gain at higher frequencies is higher. It might seem that inscrting resistance (R1) in the signal path would lower gain uniformly, but that did not happen; gain at lower frequencies is unchanged, while gain at higher frequencies is reduced. By trial and error R1 = R2 = 220 ohms was found to give nearly uniform gain while coming close to the Q2 source bias design goal of 470 ohms. Output signal levels were somewhat higher than for the 2 foot air core loop with two turn taps, so three turn taps were used.



T1, T2, T3. T4 -- 70 bifilar turns of #30 enameled copper wire

on Amidon FT-82-61 ferrite toroid core RFC1, RFC2 -- 100 uH choke, Mouser 43HH104

RFC3, RFC4, RFC5 -- 1 mH choke, Mouser ME 434-1120-103K R -- 470 ohms

R1, R2 -- 220 ohms

Figure 1 One Foot Air Core Loop

FB -- ferrite bead, Amidon FB-64-101

Tuning Range -- about 500 KHz to 2000 KHz after adjusting the spacing of L

Current Drain -- about 8.5 mA

You can get a little more gain out of the 1 foot loop and amp of Fig. 1 by using taps at two turns each side of center tap, or taps at one turn each side of center tap. I don't recommend this because the higher signal levels are not necessary, and the increased Q seems to degrade audio quality when listening in wider receiver bandwidths. You can also get a little more gain at the high frequency end of the MW band and 160 meter ham band by reducing the value of R1 and increasing the value of R2 (keep R1 + R2 approximately equal to 470 ohms), but I don't recommend this either. The three turn taps and values of R1 and R2 have been carefully chosen for optimum signal levels and flat gain. The amp of Fig. 1 can be used with ferrite rod loops (preliminary tests suggest that a 2 or 3 turn tap each side of center tap is satisfactory), but I recommend against that. If you feel that you need better performance, use the amp as it was intended, with a 1 foot air core loop. Finally, the amp of Fig. 1 can be used with the 2 foot loop described in my previous article, but I recommend against that too unless you live far away from sources of man-made and power line noise, and the MW signal levels at your location are lower than normal. Perhaps someone in Hawaii, Alaska, or northern Canada could benefit by using the amp of Fig. 1 with a 2 foot air core loop.

Jack Woods - P. O. Box 1003 Waldport, OR 97394-0514 Mike Hawk - 10212 P St. Omaha, NE 68127-2130

Information and advice of interest to inexperienced DX'ers

The topic for this issue is "When to listen for DX and what you might hear at those times". This was a problem for me when I first started DX ing. When I first started, I would read how DX at sunset and sumrise was better than at other times. I would wonder if that was true, because late at night I would hear stations from several states away, at their strongest. Because of this, I would only listen late at night.

The fact is, though, many more stations are possible to hear during sunrise/sunset skip. DX at these times is better because you can hear stations
before they reduce power or go off the air in the evening, or when they raise
power or sign on in the morning. Helpful aids to this type of DX'ing are the
sunrise/sunse; maps and Bill Male's AM Radio Station maps. The article "Sunset
DX from the West Coast" by Guy Kudlemeyer, which appeared in DX News Volume 58,
No.6 has many good tips, even if you don't live on the west coast.

I will describe how to use the maps mentioned above. Let's say it is a day in February and the time is 4:55 PM Central Time. You take out the February map and look in the 5:00 PM column. Stations in that column will change facilities at 5:00 PM. Using the radio station maps, you look for stations in this area that you would like to hear. It helps if you have a target station list already made. You listen to the frequencies of your targets for a few minutes after 5:00, because stations sometimes leave their daytime setup on for a minute or two too long. You then repeat the process for the area for 5:15 PM. The best chance of hearing these stations is just before they change to night-time facilities. The reason for this is that it will probably be dark at the station. The best chance to hear DX is when both the station and the DX'ers location are dark. Next best is when one of the locations is dark. Chances are improved still more if it is dark at both locations and the station is still on daytime setup.

Not all stations change facilities at sunset, though. Some change at the sunset of another station. For those stations, you just look at the map to see where the station is that causes other stations to change. You listen just before the sunset of that station. The NRC AM Radio Log shows many stations that change facilities at the sunrise or sunset of other stations. Check your target list to see if any of your stations are like this.

Generally, sunset is usuall most productive if you live in the East. That way, most stations are located to the west, so it will be dark at your location while those stations are on full power.

Late-night DX'ing requires a little more patience than sunset or sunrise. DX'ing late at night is usually good during unusual conditions, such as auroral or high latitude openings. Openings to parts of the country are common at night. Also, late at night some stations perform frequency or equipment tests. This is a good opportunity to hear normally daytime only stations. On Sunday or Monday mornings, many stations that are on 24 hours have a silent period. That gives you a chance to DX on those frequencies or adjacent frequencies without interference. On the clear channel frequencies, many low-powered USA and Canada stations can be heard. Mexico and South America also are commonly heard. If there is bad weather in an area of the country, such as a blizzard or flooding, sometimes daytime-only stations stay on the air with full daytime power to provide weather information to the community they serve. You can hear some rare DX that way. Try listening to the regionals late at night. Most nights, from Omaha, you can hear 1,000 watt stations from 1,000 miles away. You need to be patient though, and wait until they fade in just as they give an ID. Local channel DX is good at night. You can hear stations as they sign off, and then other stations come in after those ones are off for the night. Again, patience

Just as sunset DX is better in the East, sunrise is better in the West. The reason is the same - it is dark at the DX'ers location. You use the sunrise/ sunset maps the same way. The only difference with DX'ing at sunrise is, you want to hear stations just as they change facilities, because most likely it will be dark at the station's location when they sign on.

Daytime DX can produce some surprising catches. In Omaha, North Dakota, Illinois, southern Kansas and southern Missouri are commonly heard. Occasionally WLW, KKOB, or even WBAP are heard around noon. Try listening after heavy rain or fog, because groundwave conditions improve a little. Some low-powered daytime-only stations can be heard during the day. It is important to get to know the local band. This helps to separate the local stations from good DX when you listen during skip times or late at night.

To wrap things up, it pays to listen at all times of the day and night. Many different things can be heard at different times. Also, get in touch with a local DX'er. He or she will be glad to help you, and maybe make a tip sheet to help you get started.

A future column will be on the best bets for each state from a given location.

73 Mike and Jack

SUNRISE BROADCASTING CORPORATION WOLS-FM(Q-104)/WOLS(AM-1200)
115 NORTH BELL STREET/SUITE 4
P.O. BOX 5629
DOTHAN, ALABAMA 36302
(205) 671-1234

TO: Wayne Heinen, National Radio Club

FR: Tom O'Brien, General Manager

RE: DX request for WQLS(AM)

DA: 02/11/91

. I'm sure you thought you'd never hear from us, but I've had your letter on file so I could respond to your request for a special DX test of our AM station. Let me tell you a little about our station.

Sunrise Broadcasting Corporation acquired WNER(FH)-WFSF(AH) from a company that had gone bankrupt in early 1990 and formally took operating control on July 1, 1990. Both the AM and FM were its sed shape, as the previous owner was not a broadcaster and did not keep either station in very good running condition. I came on board with a goal of getting the stations back into line both technically and financially. We are proceeding with this in mind.

The AM station suffered a major setback in October 1990 when the 1940's RCA 10kw transmitter finally gave up the ghost and died without much hope of revival. It was decided at this point to ask the FCC to let the station remain silent for a few months while we concentrated on upgrading the FM from a class "A" to a class "C3". The FM changed call-letters to MQLS and other changes took place in programming and other areas to make it competitive in this market until we get our construction permit to build a new transmitter site. All is going according to plan and we hopefully will have the CP shortly.

Now, what to do with WFSF. I have always been a fan of AM and grew up listening to the big "clear channel" stations from Chicago, Atlanta, New York, and other cities around the country. I have a Sony XRA-33 AM Stereo receiver in the car and still enjoy tuning around the band, listening in wideband/narrowband stereo and mono. There are a lot of great sounding AM stations still out there! I have found many times, AM stereo actually sounds better than some FM stations, mono or stereo! Stations like WSB and WHAS are good examples of AM stereo. What I'm getting at is, AM is not dead, just very ill, and it's up to us with AM licenses to get the band back into shape.

It has been decided to re-build the AM station at our new FM transmitter site, with a new transmitter and antenna system. Our current plans are to program a full-service news/talk station, with heavy emphasis on community involvement (although we will operate as a daytimer, the AM programming will also be available via FM subcarrier and cable radio 24 hours a day.) I am excited about the possibilities for the new WQLS(AM) as a companion to our adult programmed FM. The studios will be in Dothan, AL.

We would vary much like to take part in your Dxing program, soon after we have re-built the station. If the FCC grants our request quickly (and they have indicated they will) we could be ready to go back on the air later this year. If you are still interested, keep in touch and a date can be scheduled for later this year without problem. I would love the publicity for the new station!

Good Tuck, and happy DXing! (Sorry about getting on my AM "soapbox"()

# Todd Brandenburg, KAOKAN 9720 NW 31st

Silver Lake, KS 66539-9403

Dicest DX on the FM band, from April through September

Greetings all!

It's now E-skip season so the 1000 mile catches will radio will work. I started with a boombox, and others have used them also. Also keep in mind the Perseids 0713 94.5 KKEZIA Fort Dodge-ID & CHA/AOR mix meteor shower in August. Catches up to 1500 miles are possible if you're willing to stay up at night. There are 0716 93.3 KIOA IA Des Moines-OLD mx, news and ID, one or two showers before then, but nothing major until the Perseids.

Tropo openings occur within a few hours of sunrise and sunset, with stations from a few hundred miles up 0723 90.9 KUCV NE Lincoln-same NPR pgm as KXCV to 1000 possible. Mornings are best, though

To answer Bill N's (and anyone else who's curious) 0726 90.3 KWIT IA Sioux City-Icl nx then NPR pgm. question, narrative reports are fine with me. Actually, as long as I can read the report it doesn't matter what format is used.

And now, on to the DX!

Mike Hawk KB0GXE, 10212 P St, Omaha, NE 68127 using a Sangean ATS-803+ 6 el R.S. yagi on roof. 5/12/91 tropo CDT

- 1546 105.1 KKJO MO St. Joseph- 'We have more winners more often on K-Joe, where you hear more music'. Format: CHR- tb
- 1900 107.7 KMAJ KS Topeka- ID jx as Classic 108 KMAJ, > 'Rock and Roll Oldies Show' (Mike, they also use 'Majic 108' jx- tb)
- 2035 106.5 KXXR MO Liberty- vy strong w/ Kansas City wx and ID slogan of X-106. (this stn is strictly

5/13/91 tropo

- 0649 104.9 KAWL NE York- Fair w/OLD & 'Zippo in
- 0653 101.5 KEZH NE Hastings- strong w/'KZ Country' ID slogan, apparently not EZL anymore as 2250 105.7 WQSR MD Catonsville
- 0656 98.9 unID // 104.9 KAWL w/'Zippo' and OLD. on 103.1 anymore, so scratch it from your logs.

- 0706 96.5 KRGI NE Grand Island- fluctuating signal w/C&W mx and 'Country 96' slogari.
- be more common through September or October. ANY 0711 95.7 KROANE Grand Island-poor w/ call ID and

  - // KIOA AM 940.
  - 0720 90.5 KXCV MO Maryville- NPR news pgm, wx and call ID. (this stn has a CLA format-trb) but delayed a little; severe 90.7 KVNO splash.
  - 0728 88.3 KXNENE Norfolk-//90.3 KWIT NPR pgm (Mike, my books show KXNE on 89.3- trb).
  - 0731 95.5 KGLI IA Sioux City-many lcl ads and call
  - Bill Nienajadly, PO Box 2999 Clifton NI 07015
  - using GE superadio modified to the max, R.S. 6-el at

- 0930 at work w/Superadio-very strong trops to Cape May, NJ to Worcester, MA. Gone by 1200. 5/9/91 groundwave
- 1200 87.9 unID NY? Brooklyn?- Pirate Stereo, playing Ramones, Patsy Cline, and one morning they aired Howard Stern. Right after this they seemed to go off for good. First time I heard anything on

5/13/91 tropo

2200 to Baltimore and DC area; 107.3, 106.5, 105.7, plus other DC, Baltimore regulars.

5/15/91 tropo

2200 96.1 WGCB PA Red Lion o/WLEV

2300 107.3 WRQX DC Washington

5/16/91 Super tropo

0659 97.3 KMTYNE Aurora-fair w/FM-97 slogan, not 0005 104.1 WXTR MD Waldorf- ID o/WAEB! (new) 0038 96.7 WCEI MD Easton- ID o/ WQQQ! (new)

0100 106.5 WVMX VA Richmond-Icl & area mentions. 0259 99.7 WYINVA Norfolk-0300 101.3 WWDE VA Hampton- o/WKCI!!! 0301 105.3 WMXN VA Norfolk- o/WDAS (new) 0305 102.3 WSTLNI Cape May o/WSUS-WBAB! 0315 95.3 WKHK VA Colonial Heights (new) 0322 100.1 WBXB NC Edenton- ID w/ Joe Fela (new) 0326 105.7 WRSFNC Columbia- Surf 106 0330 107.7 unID ?? relaying a 'lite 94.7' 0332 107.9 WNCT NC Greenville- o/WEBE! (new) 0403 92.5 WYFI NC Henderson- o/WXTU (new) 0405 95.7 WLTY VA Norfolk- o/WFLN (new) 0408 104.5 WNVZ VA Norfolk -o/Philly! (new) 0410 92.9 WFOG VA Norfolk

0430 102.5 WOLC MD Princess Anne- in 7 hours! 0453 102.1 WRXI, VA Richmond- XL-102 (new) 0528 103.3 WAKG VA Danville-last heard 1989 0542 98.1 WTVR. VA Richmond- o/WOGL!

5/17/91 groundwave

1600 89.3 WLPI NY Monroe-Stereo- IDs with 89.7-

WFGBKingstonNX; pretty good here, even heard

Best southwest opening to date. This will go into the NI DXers 'record books'! Several things stand out about this opening: the duration, strength, and how good TV was, I had WLIFL-22 NC at times snowfree! Also had ch 10 & 12 Norfolk & Richmond! Other NJ DXers had ..get this, VA & NC over NYC locals! I stayed up all night for this Super opening. WOW!

Me-Silver Lake, KS

5/22/91 tropo

2104 97.7 KUVRNE Holdrege-news, NE DOT psa into Robert Palmer song, o/unID w/ KC Royals BB.

2110 89.3 KXNE NE Norfolk- // 89.1 KHNE & 88.7 KLNE, legal ID at 2200 w/ BBC nx.

2339 93.7 KSPI OK Stillwater- w/ Texas Rangers BB.

5/23/91 tropo

2150 95.9 KKBL MO Monett-w / St Louis Cardinals BB, call ID, into Donnie Osmond mx.

Family Radio Network ... via Todd Brandenburg

Heaven's Peace Plan radio network By Ken Onyschuk 540 WYLO Jackson/Milw.Wis. Sun, 5pm. 640 WNNZ Westfield, Mas. Sun. 8 am 739 WACE Springfield, Mas. Sun. 12:30pm. 740 WRPX Budson, Wis. M-F, 10:15am 800 CKLW Windsor, Ont. Sun. 10:30am 870 KIEV Glendale, Cal. Sun.4pm. 950 WROL Boston, M-F 17am, Sun. 12:30pm 1030 WMIN Maplewood/Mpls, M-F, 6:30am, Sun.8am 88.1 1030 KTWO Casper, Sun, 8:30pm. 1110 WTIS Tampa, Fl. Sun. 1:30pm 1160 WJJD Chicago, Sun.8:30am 1170 WWWA Wheeling, WW , Sun.6:30pm 1226 WRIB Providence, R.I. Sun. 2pm. 1250 CHWO Oakville/Toronto, Sup. 9am. 1410 KFMB Montreal, Sun,7:30am 1510 KGA Spokane, Sun. 10:30pm 1520 WWKB Buffalo, Sun. 9:30pm 1540 KXEL Waterloo, M-F 10:30pm, Sun, 9pm. 1590 WPLW Carnegie/Pittsburgh, Sun.4pm.

101.5 WPIT Pittsburgh, M-F, 7:15pm 103.9 WIBF Jenkintown/Phil., Pa. M-F, 7:45am

> THE ALL NEW KM COUNTRY

## WJKM Radio

Hartsville, TN

615-374-2111

Clear Channel 1090 AM On Your Dial Playing All Your Favorites \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

910 KECR El Cajon, CA (metro San Diego) 920 KYFR Shenandoah, IA 1150 WCUE Cuyahoga Falls, OH WCTF Vernon, CT 1170 1210 KEBR Rocklin/Sacramento, CA 1280 KFRN Long Beach, CA 1460 KARR Kirkland, WA 88.1 WMWK Shorewood (Milwaukee), WI WFRW Webster, NY WFCH Charleston, SC Jacksonville, FL 88.9 KQFE Springfield, OR 88.9 WFRS Smithtown, NY 88.9 WFRI Johnstown, PA (t) 88.9 WFRI Johnstown, PA (t) 89.1 KHAP Chico, CA (t) 89.5 KJVH Longview, WA 89.5 KPRA Ukiah, CA 89.5 WBFR Birmingham, AL 89.7 KTXB Beaumont, TX 89.9 KEFR Le Grand, CA (t) 89.9 WFBF Buffalo, NY 90.3 WOTL Toledo, OH WFRC Columbus, GA (t) 91.3 KDFR Des Moines, IA 91.7 KUFR Salt Lake City, UT 91.7 WFTI St. Petersburg, FL 91.7 WWFR Okeechobee, FL 91.9 WJCH Ioliet, IL 93.3 KECR-FM El Cajor, CA (t) 94.7 WFME Newark, NJ (t) 94.7 WFME Newark, NI(t)

San Francisco, CA (t)

Camden, NI (t)

Camden, NI(t)

Annapolis, MD (t)

(t) means station has translators

Need more information about Medium Wave DX'ing? Mail \$1.00 to NRC Publications - P. O. Box 164 - Mannsville, NY 13661-0164; ask for the Reprints Catalog.

106.9

106.9

106.9

KEAR

WKDN

WKDN

WFSI

# Sports Networks

### Barry S. Finkel

10314 S. Oakley Chicago, IL 60643-2409

Network listings for team sports stations

Here is Major League Baseball announcer information. I have not included flagship information, as that appeared in the last column. But I have included Spanish or French network flagship stations that did not appear there. This comes from "USA Today" and "Baseball Weekly" via Ken Onyschuk.

Atlanta Braves Dave O'Brien Baltimore Orioles Jon Miller, Ken Levine Boston Red Sox Bob Starr, Joe Castiglione California Angels Al Conin, Bob Jamison Cos Villa, Ruben Valentin 1090 XEPRS-BC Chicago Cubs Thom Brennaman, Ron Santo, Harry Caray, Bob Brenly Chicago White Sox John Rooney\*, Wayne Hagin (??) selected games on 1300 WTAO-IL Cincinnati Redlegs Marty Brennaman, Joe Nuxhall Cleveland Indians Herb Score, Tom Hamilton Detroit Tigers Ernie Harwell, Paul Carey Houston Astros Milo Hamilton, Larry Dierker, Bill Brown, Vince Cotroneo Orlando Diago, Rolando Becerra 1320 KXY2-TX Kansas City Royals Denny Mathews, Fred White Los Angeles Dodgers Vin Scully, Don Drysdale, Ross Porter Jaime Jarrin, Rene Cardenas 1330 KWKW-CA Milwaukee Brewers Bob Uecker, Pat Hughes Minnesota Twins Herb Carneal, John Gordon Montreal Expos Jacques Doucet, Rodger Brulotte, 730 CKAC-PO Pierre Arsenault Dave Van Horne, Ken Singleton, Elliot Price, Bobby Winkles New York Mets Bob Murphy, Gary Cohen 620 WSKQ-NY New York Yankees Joe Angel, John Sterling Oakland Athletics Bill King, Lon Simmons, Ray Fosse Amaury Pi-Gonzales, Irwin Higueros 1430 KTNA-CA Philadelphia Phils Hary Calas, Rich Ashburn, Andy Musser, 1210 WOGL-PA \*\*\* Chris Wheeler Pittsburgh Pirates Lanny Frattare, Jim Rooker, Steve Blass, Ken Dervinavis \*\* St. Louis Cards Jack Buck, Joe Buck, Mike Shannon San Diego Padres Jerry Coleman, Rick Monday, Bob Chandler, Ted Leitner Gustavo Lopez (Sr. & Jr.), Ed Ortega, 1420 XEXX-BC Mario Zapaian San Francisco Giants Hank Greenwald, Ron Fairly Julio Gonzales, Tito Fuentes 1170 KLOK-CA Seattle Mariners Rick Rizzs, Dave Niehaus Texas Rangers Mark Holtz, Eric Nadel Toronto Blue Jays Tom Cheek, Jerry Howarth

- John Rooney broadcasts the CBS Radio Sunday evening games.
- \*\* I can't read Ken's handwriting for Kent D's last name.
- \*\*\* Broadcasting Magazine lists only WOGL-FM for the Phillies; Ken Onyschuk's sources list WOGL-AM.

California Angels 1991 Al Conin, Bob Jamison (via Martin Foltz) Cos Villa, Ruben Valentin (SS)

710 920 1010	KRSO-CA KMPC-CA KDES-CA KCHJ-CA KWAI-HI	*	1150	XPRS-BC KCKY-AZ KLAV-NV KPRL-CA KMGR-UT			KSMA-CA KATY-CA KVOY-CA KFBR-AZ KIKO-AZ	1400 1430	KLPZ-AZ KTUC-AZ KPMP-CA KCIN-CA	94.3	KTAA-CA
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Los Angeles Dodgers 1991 from Dodgers' Pocket Schedule (via Tom Sanders) Vin Scully, Don Drysdale, Ross Porter Jaime Jarrın, Rene Cardenas (SS)

610	KOY -AZ KAVL-CA			KVVQ-CA KOXR-CA			KLOA-CA KTMS-CA		1330 1340	KWKW-CA WSTA-VI	# 13 +	1480	KSBQ-CA	+@
	KVNA-AZ		920	KVEC-CA		1280	KDOL-NV	+6	1.370	WAXE-FL	4		KYCAA.Z	
	KDWN-NV		940	KDEO-HI	+	1290	KMEN-CA		1400	KTUC-AZ			KSNE-CA	
790	KABC-CA	*	1140	KCMJ-CA		1300	KROP-CA			KEYX-CA				+ 6
800	KNKK-UT			KBOV-CA			KIOO-CA			KUHL-CA		1260	KNZR-CA	
810	WKBM-PR	+@		KYVA-NM			KHSJ-CA			KVEN-CA				

- + These stations carry selected Dodger games.
- @ These stations carry the Spanish (SS) broadcasts.

Philadelphia Phillies 1991 Hary Calas, Rich Ashburn, Andy Musser, Chris Wheeler (via WOGL)

590	WARM-PA	1210	WOGL-PA *+	1320	WGET-PA	1400	WRAK-PA	1490	WNBT-PA	
660	WMIC-NJ	1230	WBPZ-PA	1350	WOYK-PA	1420	WCOJ-PA	1570	WBUX-PA	
790	WAEB-PA		WCMC-NJ	1360	MPPA-PA	14 80	WISL-PA			
850	WEEU-PA	1240	WYGL-PA	1390	WKLP-WV	14 90	WLPA-PA		WCHX-PA	@
860	WGUL~FL	1270	WLBR-PA	1400	WOND-NJ		WBCB-PA			
1150	WDEL-DE		WBZS-FL		MAINW-PA		WAZL-PA			

- + To clear up some confusion in the last two issues -- the Phillies are definitely on WOGL-AM in Philadelphia; I do not think that they are also on WOGL-FM.
- @ The Phillies' list contains only call letters; there are no frequencies. I am assuming that the stations that carry the games are AM. There may be some FM stations that carry the games. I could not find WCHX (Lewiston, PA) in my "NRC Log"; it may be an FM station.

Houston Astros 11/1990 Milo Hamilton, Larry Dierker (via KRPC) Rolando Becerra, Orlando Sanchez (SS on KXYZ)

I do not know if any of these stations (besides 1320 KXY2) carries the Spanish feed.

The Astros' sheet also lists the Armed Forces Network as carrying the games.

Detroit Tigers 1991 Ernie Harwell, Paul Carey (via WJR)

590	WTCM-MI WKZO-MI WJR -MI		WSOO-MI WCUZ-MI WJIM-MI		WPLB-MI WCCY-MI WOXO-MI		WBRN-MI WMPX-MI	1	00.9	WSHN-MI WBRN-MI WUPY-MI
	WSGW-MI WKBZ-MI		WCBY-MI WFYC-MI	1430	WLKF-MI WION-MI		WKJF-MI WNBY-MI		04.7	WYKX-MI WKJC-MI
900	WSNQ-MI	1320	WDMJ-MI	1450	WMIQ-MI	95.3	WMJZ-MI		104.9	WFYC-MI
	WBCK-MI WP2A-MI	1340	WWPZ-MI WCSR-MI		WHTC-MI WNBY-MI	98.3	WCSY-MI WOXO-MI			
	WCEN-MI	1350	WGDN-MI		WATZ-MI	99.3	WATZ-MI	+		

+ The "WJR Michigan RADIOGUIDE" Collector's Issue (I assume that this name is is due to the fact that this is the last season for both announcers) contains two lists. One is a list of the Tigers' Radio Network, and the other is a list of Michigan AM and FM stations, with frequency and format. In the latter, the Tigers' stations are in a bold font. The Tiger's list has WATZ (AM), while the Michigan list has WATZ (FM). Except for this one difference, the two lists agree.

Cincinnati Redlegs 3/28/91 Marty Brennaman, Joe Nuxhall (via WLW)

	WJLS-WV	1240	WSFC-KY	1400	WPAY-OH		WMPO-OH		WHIZ-OH
580	WCHS-WV		WHBU-IN		WCYN-KY	92.3	WDEF-TN	103.1	WRAU-KY
610	WTVN-OH	1260	WNDE-IN		WBTH-WV	92.7	WMCI-KY	103.6	WBKW-WV
680	WCTT-KY	1280	WHRS-KY	1440	WMDJ-KY	94.3	WKKI-OH	103.9	WRBI-IN
700	WLW -OH*	1290	WHIO-OH		WPGW-IN		WRCR-IN		WIMC-IN
740	WRNR-WV		WVQW-WV	1450	MXVM-IN	95.3	WNDI-IN		WXKQ-KY
790	WWKY-KY		WATO-TN	1490	HO-AOMW	95.7	WPTW~OH	104.1	WPAY-OH
810	WEKG-KY	1300	WLXG-KY		WOMI-KY	95.9	WFTM-KY	104.9	WFKY-KY
850	WUTK-TN	1320	MLOH-OH		WBEX-OH	96.7	WKOV-OH		MWWY-IN
910	WFNS-FL	1330	WMOR-KY		WKBV-IN	97.?	WLBC-IN	105.1	WRNZ-KY
920	WTCW-KY		MKON-OH		WSIP~KY	97.7	WJSN-KY	105.9	WWKC-OH
930	WRVC-WV		WFIN-OH		WFKY-KY	99.6	WCHS-WV	106.1	WRZZ-WV
970	WATH-OH		WTRE-IN	1520	WSVL-IN	100.3	WCNB-IN		WINN-IN
990	WJEH-OH	1340	WKRM-TN	1530	WIFE-IN	100.9	WPGW-IN	106.7	WSRW-OH
1050	WGAT-VA		WLBC-IN	1550	WNDI-IN	101.5	WGTR-OH	107.1	WKOB-KY
1110	WCBR-KY		WBGN-KY		WCVL-IN	101.7	WMCQ-KY	107.3	WCTT-KY
1150	WIMA-OH	1370	WGOH-KY	1560	WQXY-KY	101.9	WVOW-WV		
1230	WIRO-OH	1390	WBLL-OH	1600	WBLY-OH	102.3	WFFC-IN		
1240	WFTM-KY		WMPO-OH				WUGO-KY		
	WHIZ-OH	1400	WVRC-WV	92.1	WMOR-KY		WCYN-KY		

Atlanta Braves 4/1/91 Dave O'Brien (via WSB)

540	WDXN~TN	1150	WGOW-TN	1350	WGAD-AL	1450	WDNG-AL	92.1	WKUL-AL
550	WDUN-GA	1230	WSBB-FL	1370	WDXE-TN		WGNC-NC		WPEH-GA
580	WGAC-GA		WBLJ-GA	1380	WLRV-VA		WBHF-GA		WBTR-GA
	WMGA-GA	1240	wwns-ga		WTOB-NC		WMVG-GA	93.1	WDKZ-GA
	WTSB-NC		WBHB-GA	1400	WJHO-AL		WKEU-GA	93.5	WLIL-TN
630	WAVU-AL		WLAG-GA		WCRS-SC	1470	WCLA-GA	94.3	WPUB-SC
710	WKRG-AL	1250	WQHL-FL		WNUE-FL		WIJK-AL	97.7	WPUR-GA
730	WLIL-TN	1280	WSAT-NC		WCOH-GA	1490	WFLB-NC	102.9	WNPT-AL
750	WSB -GA*		WPID-AL		WLSB-TN		WMOG-GA	103.9	WPPL-GA
800	WJAT-GA		WNPT-AL	1410	WLAQ-GA		WRLD-GA	105.5	WIFO-GA
860	WDMG-GA	1310	WTIK-NC		WEGO-NC	1590	WALG-GA	107.1	WCLA~GA
930	WRXJ-FL	1330	WMLT-GA	1420	WRCG-GA		WCSL-NC		
940	WMAZ-GA	1340	WTIF-GA	1430	WLTG-FL		WNVA-AL		
950	WGTA-GA		WFEB-AL	1440	WHHY-AL	1600	WFIS-SC		
980	WPGA-GA		WBBT-GA	1450	WVLD-GA				

Kansas City Royals 1991 Denny Matthews, Fred White (from "Kansas City Star" via J. E. Lewis and Paul Swearingen)

	KWTO-MO		KTNC-NE	1420	KZMO-MO	1580	KTGR-MO	97.7	KNCY-NE
	WIBW-KS*	1240	KNEM-MO		KJCK-KS		KESM-MO	99.3	KUTT-NE
	KMNS-IA		KIUL-KS	1430	WEZI-TN	1590	KVGB-KS	100.3	KQLS-KS
	KFEQ-MO		KFOR-NE		KRGI-NE	1600	KCRG-IA	100.9	KCLY-KS
	KGGF-KS	1270	KTRT-OK		KKOZ-MO		KNCY-NE	101.1	KFNF-KS
	KLOE-K\$		KSCB-KS	1440	KCHE-IA		KDMO-KS	101.7	KIND-KS
	KJEL-MO	1280	KCNI-NE	1450	KWBW-KS		KFRS-NE	102.9	KMMO-MO
	KXXX-KS		KSOK-KS		WMBH-MO		KTTN-MO		KBRX-NE
	KRVN-NE	1290	KLEH-IA		KWBE-NE		KNLV-NE	103.1	KNDY-KS
	KGLC-OK		KOIL-NE		KLMX-NM			103.7	KIRK-MO
	KROE-WY		KWLS-KS		KOKO-MO	92.1	KMOE-MO	103.9	KNLV-NE
	KSWM-MO		KMMO-MO		KBFS-SD		KTTN-MO		KFRS-NE
960	KNEB-NE		KGMT-NE		KYNT-SD		KCHE-IA		KOMB-KS
	KMA -IA		KTOD-AR		KKOY-KS	92.7	KIDA-IA		KCHI-MO
	KMBZ-MO	1340	KGFW-NE	1470	KERE-KS	93.5	KLKC-KS		KNZA-KS
990	KRSL-KS		KSEK-KS		K2SN-KS		KZED-KS	104.9	KRGK-MO
	WCAZ-IL		KMAN-KS	1490	KDMO-MO	94.3	KZMO-MO	105.5	KCOE-NE
	KRMO-MO		KSPG-KS		KXLQ-IA	94.5	KEZU-KS		KELR-IA
	WHOO-FL	1370	KAWL-NE		KDRO-MO	95.3	KDKD-MO		KQSM-KS
	KCHI-MO		KGNO-KS	1510	KANS-KS		KCKS-KS	106.3	KYOO-MO
	KYOO-MO		KNCK-KS		KMRF-MO		KNIM-MO	106.5	KMCX-NE
1150	KSAL-KS	1400	KTMC-OK	1530	KMAM-MO	95.9	KCAY-KS	106.7	KFXX-KS
	KWKY-IA		KVOE-KS	1540	KNGL-KS		KAAN-MO		
	KRMS-MO		KAYS-KS		KLKC-KS	96.7	KANS-KS		
	KVSV-KS	1420	KBTN-MO	1570	KLEX-MO		KBBE-KS		
1200	KOMC-MO		KULY-KS	1580	KNIM-MO	97.7	KAYQ-MO		

Baltimore Orioles 4/3/91 Jon Miller, Chuck Thompson, Ken Levine (via WBAL)

540 WDMV-MD 800 WCHA-PA 900 WSSR-DE 910 WSSA-PA 920 WPTX-MD 930 WFMD-MD	960 WLVW-MD 970 WAMD-MD 1000 WIOO-PA 1090 WBAL-MD* 1200 WAGE-VA 1240 WTON-VA	1260 WNRK-DE 1270 WLBR-VA 1280 WHVR-PA 1310 WGH -VA 1340 WHAP-VA WEPM-WV	1400 WINC-VA WKAV-VA 1430 WNAV-MD 1450 WTBO-MD 1470 WTTR-MD 1490 WLPA-VA	1490 WARK-MD 1500 WTOP-DC 1590 WETT-MD 1600 WPDC-PA 106.3 WCEM-MD
900 WFRO-OH 910 WBRJ-OH 970 WFUN-OH WSTX-VI 1100 WWWE-OH* 1240 WBBW-OH	1260 WRIE-PA 1340 WKSN-NY 1370 WWCB-PA 1400 WMAN-OH 1430 WCLT-OH WFOB-OH	1450 WLEC-OH 1480 WHBC-OH 1490 WMRN-OH 1510 WLKR-OH 1520 WBNO-OH 1540 WBCO-OH	1540 WTBC-OH 1550 WDLR-OH 1570 WBUZ-NY 92.7 WQEL-OH 95.3 WLKR-OH	96.7 WFOB-OH 98.3 WJMR-OH 99.1 WFRO-OH 100.9 WQCT-OH 104.5 WQKT-OH 107.1 WDOH-OH

Note that in the "flagship" listing in the last issue, I had a "typo" for the WWWE frequency. I always confuse three "W" with three "l".

Seattle Mariners 1991 Dave Neihaus, Rick Rizzs (via Bill Hardy)

580 600 650 680 710 730	KENI-AK KXFD-ID KGEZ-MT KQQQ-WA+ KOMW-WA KIRO-WA* KULE-WA KINY-AK	920 990 1030 1080 1150 1170	KORD-WA KXLY-WA KRXT-OR KMAS-WA KWJJ-OR KQQQ-WA+ KPUG-WA KVAS-OR	1280 1320	KPRB-OR KCVL-WA KXLE-WA KGY -WA KIT -WA KXRO-WA KIHR-OR KLKI-WA	1360 1450 1490 1550	KWWW-WA KUIK-OR KGRZ-MT KONP-WA KVAC-WA KLOG-WA KUAN-WA KEED-OR	95.9 97.1	KOMW-WA KULE-WA KNSN-WA KPRB-OR
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<sup>+</sup> KQQQ has a CP to move from 1150 to 650.

Chicago White Sox 1991 John Rooney+, Wayne Hagin (via WMAQ)

670 WMAQ- 860 WGOM-	IN 1240	WSAL-IN WHBU-IN	1450	WGIL-IL WLYZ-IN		WIFF-IN WTAY-IL WAMJ-IN		WBYS-IL WIBN-IN WEBQ-IL
KWPC-		WSDR-IL WEIC-IL		WKAM-IN WZOE-IL	1280	MI-CMAM		WGEN-IL
980 WITY- 1220 WOSA-		WKAN-IL		WLUV-IL	97.7	WLQI-IN		WDND-IL
1230 KAMJ-		KRNT-IA	1550	WCVL-IN		WFRX-IL	107.7	WMRS-IN

+ John Rooney broadcasts the CBS Radio Sunday evening games.

Milwaukee Brewers 1991 Bob Uecker, Pat Hughes (via WTMJ)

550	WSAU-WI	1090	WISS-WI	1330	WHBL-WI		WMIR-WI		WRDN-WI
570	WMAM-WI	1230	WCLO-WI	1340	WLDY-WI		IW-HMWW		WJMC-WI
580	WKTY-WI		WHBY-WI	1380	WBEL-WI	1580	WTTN-WI		WATW-WI
	WJMS-MI		WIKB-MI	1400	WRDB-WI	1590	WTOQ-WI	97.1	WCOM-WI
	WTMJ-WI*	1240	WOBT-WI		WATW-WI			98.3	WNBI-WI
	WDBC-MI		WJPD-MI		WEUZ-WI	92.1	WRJC-WI	99.1	WIKB-MI
	WDUX-WI		WJMC-WI	1430	WRDN-WI		WRLS-WI	99.3	WIGM-WI
	WDOR-WI		WOMT-WI		WBEV-WI	92.3	WJPD-MI	100.1	WDDC-WI
	WTCH-WI	1260	WWIS-WI	1440	WNFL-WI	92.7	WLDY-WI	100.9	WRCO-WI
	KXTP-WI	1200	WEKZ-WI		WDLB-WI		WDUX-WI	102.3	WISS-WI
	WNBI-WI	1270	WRJC-WI	1400	KFIZ-WI	93 7	WEKZ-WI	105.3	WRLO-WI
980			WCOM-WI		WRCO-WI		WDOR-WI	106.3	WEVR-WI
	WPRE-WI			2 4 0 0	WIGM-WI		WPRE-WI	200.0	
~	WSPO-WI		WIBA-WI						
3 A E A	CIT TD _GIT	1320	$\omega_{F}\omega_{D}-\omega_{T}$	1550	WEVR-WT	45.4	TW-HMWW		

Chicago Cubs 4/1/91 Harry Caray, Thom Brennaman, Bob Brenly, Ron Santo (via WGN)

WNAX-SD	1060	WNOE-LA	1370	WPRC-IL	1490	WDAN-IL	95.9	WKUZ-IN
WJTZ-TN		WRHL~IL	1380	KCIM-IA	1540	WBNL-IN	96.7	WRVI-IL
WGN -IL*	1090	KYBG-CO	1390	KLNT-IA	1550	KIWA-IA	96.9	WLBH-IL
WLWI-AL	1110	WYIC-IN	1400	WBAT-IN		WCSJ-IL	97.7	WFRX-IL
KROL-NV	1130	WJTP-NC		KADR-IA		WJIL-IL		WMOI-IL
WINU-IL	1150	KCKY-AZ	1420	WOC -IA		KAPE~MO	98.3	KWBG-IA
WAKO-IL	1230	KKGR-OR	1440	WGEM-IL	1570	WFRL-IL		KEMB~IA
WFNS-FL	1240	KJAA-AZ	1450	MTAA-IN		WIFF-IN	98.5	WXXQ-IL
WMOK-IL	1290	WIRL-IL		WASK-IN	1590	KWBG-IA	102.3	WRHL-IL
WHON-IN	1310	KOKX-IA		WMIQ-MI		WPCO-IN	103.1	WAKO-IL
WSBT-IN	1320	WNGO-KY	1460	WKAM-IN	1600	KCRG-IA	104.9	WAXI-IN
WCSI-IN	1330	WRAM-IL		WUFI-IL		WCWC-WI	105.5	KIWA-IA
WCIL-IL	1350	KRNT-IA	1470	WHUT-IN			107.1	WBNL-IN
WTCA-IN	1370	KDTH-IA		WQSN-MI	94.3	WTCA-IN	107.3	WRSW-IN
WDZ -IL		KLBA~IA	1480	WRSW-IN		WJNZ-IN		
	WJT2-TN WGN -IL* WGN -IL* WHWI-AL KROL-NV WINU-IL WAKO-IL WFNS-FL WMOK-IL WHON-IN WSBT-IN WCSI-IN WCIL-IL WTCA-IN	WJT2-TN WGN -IL* 1090 WLWI-AL 1110 KROL-NV 1130 WINU-IL 1150 WAKO-IL 1230 WFNS-FL 1240 WMOK-IL 1290 WHON-IN 1310 WSBT-IN 1320 WCSI-IN 1330 WCIL-IL 1350 WTCA-IN 1370	WJT2-TN WRHL-IL WGN -IL* 1090 KYBG-CO WLWI-AL 1110 WYIC-IN KROL-NV 1130 WJTP-NC WINU-IL 1150 KCKY-AZ WAKO-IL 1230 KKGR-OR WFNS-FL 1240 KJAA-AZ WMOK-IL 1290 WIRL-IL WHON-IN 1310 KOKX-IA WSBT-IN 1320 WNGO-KY WCSI-IN 1330 WRAM-IL WCIL-IL 1350 KRNT-IA WTCA-IN 1370 KDTH-IA	WJT2-TN	WJT2-TN	WJT2-TN	WJT2-TN	WJT2-TN

Minnesota Twins 1991 Herb Carneal, John Gordon (via Minnesota Radio Network)

610	KDAL-MN	1190	KWMB-MN	1340	KDLM-MN	1430	KBRK-SD	92.1	KOWO-MN
730	KWOA-MN	1220	KOUR-IA		KIJV-SD	1450	WELY-MN		WYRQ-MN
790	KFGO-ND	1230	KTRF-MN		KROC-MN		KBMW-ND	93.5	KSCR-MN
800	KQAD-MN		KWNO-MN		KXPO-ND		KBUN-MN	94.3	KDOM-MN
830	WCCO-MN*		KGHS-MN		KMTW-WN		KATE-MN		KMSR-MN
860	KNUJ-MN	1240	KDLR-ND	1350	WCRM-FL	1460	KLTC-ND	101.7	KOLV-MN
890	KQLX-ND		WJON-MN	1380	KLIZ-MN	1470	KWSL-IA	102.9	KBWS-SD
930	KSDN-SD	1260	KROX-MN	1390	KRRZ-ND	1480	KAUS-MN	103.1	KFIL-MN
950	KWAT-SD	1270	KLXX-ND	1400	KEYL-MN		KGCX-MT	105.	KMGM~MN
1060	KFIL-MN	1290	KSCR-MN		KVFD-IA	1490	KOVC-ND	106.3	KWLX-ND
	KGFX-SD	1300	KGLO-IA		KMHL-MN		KNDC~ND		KRJB-MN
1090	KJJK-MN	1310	KNOX-ND		WHLB-MN	1510	KMSD-SD		
1140	KSOO-SD	1320	KOZY-MN	1410	KHOL-ND	1580	KDOM-MN		
1170	KOWO-MN	1340	KTOQ-SD	1420	KTOE-MN				

NRC AM RADIOLOG

o 1991 Edition

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### **Editor: Gayle Yeager**

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620 WWI	VR WV	BECKLEY	DRAWER AE 25801	BW-MI
630 KD	B MN	ST. PAUL	708 SOUTH 3th ST., SUITE 200 55415	J*-OH
660 KF	AR AK	FAIRBANKS	P.O. BOX 70910 99707	CPC
670 WI	EZ PA	LEWISTOWN	12 1/2 EAST MARKET STREET 17044	HK-NH
740 WP	RX WI	HUDSON	615 1/2 2nd STREET	CPC
770 WA	BC NY	NEW YORK	P.O. BOX 77 10101	GMD-WV
780 WB.	BW IT	CHICAGO	P.O. BOX 78 60602	GHD-WY
800 KI	NY AK	CORTLAND	DO BOY SER MEDGED DA 16132	CPC
830 WK	IX OH	CORTLAND	P.O. BOX 358, MERCER, PA 16137	GHD-WV
860 WA	UD UT	ALLANIA	1465 NORTH SIDE DRIVE	CPC
860 KC	NK UI	NEW ODIESNIE	180 2001H 200 ME21	CPC
900 WE	Y CY	CAVANNIALI	2515 AREDCODE CERET	CDC
200 AK	YU TN	KNOVVIIIE	SIDS MINDIFFROOV DIVE 27021 5002	CPC
920 CK	ארו איז	CHONVILLE MAD	IF 642 COENT NORTHERN DOND 545 470	DT-ON
971) WA	TH OH	ATHENS	P O ROY 210 45701	BW_MT
990 90	M MT	VESTIANTI	17 NORTH HIDON STORET	CHD-MA
3000 KK	MX CU	HAYDEN	BOY 774743 STEAMBOAT SPRINGS CO 80477	CPC
3 DDD W.T	HH GA	SOPERTON	1003 FAST MAIN STREET 30457	BY-VA
1040 KG	GR TX	DALLAS	3929 SOUTH POLK STREET 75224 BE	McC-TY
1110 KA	TH TC	KIHEI MAUI	1728-C ₹AAHIMANII AVENUF	CPC
1120 KA	NN UT	ROY	P.O. BOX 3880 OGDEN UT 84409	CPC
1200 WK	IT ME	BREWER	BOX 2637 BANGOR ME 04401	HK-NH
1220 WK	NR OH	BROADVIEW HEIGH	HTS 9446 BROADVIEW ROAD 44146	GHD-WY
1240 KC	RT CO	TRINIDAD	100 FISHER DRIVE	CPC
1250 CH	HO ON	OAKVILLE	Zip Code Change Only - L6J 3N8	RV-VA
1280 WY	SY IL	AURORA	P.O. BOX 2010 60507	GHD-WV
1290 WF	GB PA	ALTOONA	HILLTOP-LOGAN BLVD. 16603	DT-ON
1300 KB	RL NE	McCOOK	P.O. BOX 303 69001	WH-CO
1310 CH	GB PQ	La POCATIERRE	1000 6ieme AVENUE, C.P. 550 GOR 120	DT-ON
1330 WW	RV NY	NEW YORK	P.O. BOX 2908, PATERSON, NJ 07509	BH-NJ
1400 WN	NK PA	HARRISBURG	P.O. BOX 144 17118	DT-ON
1440 WL	PZ ME	WESTBROOK	BOX 6713, PORTLAND, ME 04101	HK-NH
1440 WM	KM MI	INKSTER	1514 EAST JEFFERSON AVENUE, DETROIT, MI 48207	DT-ON
1450 KD	IN CO	BUENA VISTA	P.O. BOX 2224, GREELEY, CO 80632-2224	WH-CO
1450 WT	BO MD	CUMBERLAND	P.O. BOX 1644 21502	DT-ON
1450 KN	SI MN	ST, CLOUD	Zip Code Change Only - 56302-1458	DT-ON
1450 WP	SE PA	ERIE	Zip Code Change Only - 16563-0907	DT-ON
1450 WM	AJ PA	STATE COLLEGE	421 EAST BEAVER AVENUE, BOX 888 16804	DT-ON
1460 WE	IR PA	TUNKHANNOCK	R.R. 5, BOX 1460 18657	DT-ON
1470 WM	NW CT	MERIDEN	DAY'S INN, SUITE 1470, 900 E. MAIN ST. 06450	BH-NJ
1470 WV	BX SC	GEORGETOWN	1215 CHURCH STREET	CPC
1480 WZ	RC NY	NEW YORK	600 MADISON AVENUE	BH-NJ
1490 WP	LX VA	MAMPION	32 EAST MELLEN STREET 23663	RV-VA
1510 KI	DZ MO	INDEPENDENCE	10841 EAST 28th	WH-CO
1520 KU	LPI PIN	ROCHESTER	122U 4th AVENUE SW 559U2	CPC
1550 WN	NA CI	TAMBA	P.U. BUX 2244, YOUNGSTUWN, UH 44504	GHD-WV
1550 WA	IA IL	CHDEVEDODT	1300 CDIMMENT AVENUE 34248	CPC
1560 WV	TD CA	BUKEAELOKI	2663 DECACHE DELLE # 107 92209	LIL CO
1570 CK	M DO	MONTOFAL	SIGS BOULEVADO CATAR MADTIN OUEST	MU-CO
1310 CK	LI LA	HOMIKEME	1 AVAI DO HOT 1 A 2	AD DO
1580 66	OF NO	CAMP LETELINE	1300 I TRINK BIVE TACKSONVILLE NO DOSAG	WK-LA
1600 44	UR MA	BROOKI INF	275 TORMONT CTOFFT ROSTON MA 02114	DT-ON
1000 40		DISONDERIE	3625 NORTH HALL DRAWER AE 25801 708 SOUTH 3th ST., SUITE 200 55415 P.O. BOX 70910 99707 12 1/2 EAST MARKET STREET 17044 615 1/2 2nd STREET P.O. BOX 77 10101 P.O. BOX 78 60602 1107 WEST 8th P.O. BOX 358, MERCER, PA 16137 1465 NORTH SIDE DRIVE 180 SOUTH 360 WEST P.O. BOX 53367 70153 2515 ABERCORN STREET 5106 MIDDLEBROOK PIKE 37921-5908 12 642 GREAT NORTHERN ROAD P6B 429 P.O. BOX 210 45701 17 NORTH HURON STREET BOX 774743, STEAMBOAT SPRINGS, CO 80477 1003 EAST MAIN STREET 30457 3929 SOUTH POLK STREET 75224 BE 1728-C £AAHUMANU AVENUE P.O. BOX 3880, OGDEN,UT 84409 BOX 2637, BANGOR,ME 04401 11TS 9446 BROADVIEW ROAD 44146 100 FISHER DRIVE ZIP Code Change Only - L6J 3N8 P.O. BOX 2010 60507 HILLTOP-LOGAN BLVD. 16603 P.O. BOX 303 69001 1000 6ieme AVENUE, C.P. S50 GOR 12D P.O. BOX 2024, GREELEY,CO 80632-2244 P.O. BOX 2224, GREELEY,CO 80632-2224 P.O. BOX 1644 21502 ZIP Code Change Only - 16563-0907 421 EAST JEFFERSON AVENUE, DETROIT,MI 48207 P.O. BOX 2224, GREELEY,CO 80632-2244 P.O. BOX 1644 21502 ZIP Code Change Only - 16563-0907 421 EAST BEAVER AVENUE, BOX 888 16804 R.R. S, BOX 1460 18657 DAY'S INN, SUITE 1470, 900 E. MAIN ST. 06450 1215 CHURCH STREET 600 MADISON AVENUE 32 EAST MELLEN STREET 23663 10841 EAST 28th 1220 4th AVENUE SW 55902 P.O. BOX 2244, YOUNGSTOWN,OH 44504 5203 NORTH ARMENTA AVENUE 34248 1300 GRIMMENT 3651 PEGASUS DRIVE, # 107 93308 3195 BOULEVARD SAINT MARTIN OUEST LAVAL, PQ H7T 1A3 1309 Lejeune BLVD., JACKSONVILLE, NC 28540 275 TREMONT STREET, BOSTON,MA 02116	DITON

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The "Beymatcher" Broadband Antenna Matching and Combining Unit Mark Connelly - WAIION - 15 JAN 1991

This article presents a flexible solution to coupling Beverage and random-length longwire and vertical antennae to 50-ohm coaxial feedline suitable to transport a low-noise signal from a remote location to the receiving position. Several issues are involved: these must be discussed at the outset.

- 1. Inability to keep correct antenna orientation if the antenna is extended to reach the receiving "shack"
  - A Beverage or other wire antenna laid out for a particular directional characteristic may only be feasible at a site not immediately adjacent to the receiving position. It is necessary to "capture" signals as if the receiver was "out in the field" at the end of the properly-aimed antenna
- 2. Excessive manuade RF noise in the immediate vicinity of the receiving position.

Noise from TV's, machines, fluorescent lights, computers, power lines, etc. obliterate serious DX signals in the area near the receiver. A remote antenna at a quieter nearby site is mandated. Active remote antennae may be overloaded by strong local stations, so a passive fix is required Again, a means of delivering a true noisefree replica of the signal "in the field" at the base of the antenna to the operating position is needed It goes without saying that signal attenuation due to cable loss should be minimized. Luckily, even 100' (30 m.) of RG-58 type coax. has relatively little loss below 5 MHz. Cable shielding must be effective and ground loops are to be avoided if noise is to be held at bay and if RF "leakage" (that could compromise directivity) is to be "plugged".

3. Wire autennae seldom provide a proper 50 ohm match: simply connecting a run of coax. to a remote wire antenna is a recipe for failure.

A Beverage characteristically has an impedance of 500 to 900 ohms over a fairly wide bandwidth. DXers such as Nick Hall-Patch have constructed toroidal-transformer assemblies that take advantage of this fact by using a fixed ratio of transformation (e. g. 12:1) and ground isolation to get substantially better RF energy transfer to the 50-ohm feedline. Separating transformer primary ground from transformer secondary ground reduces noise as long as a decent earth ground can be provided at the field site at which the antenna-to-cable interface box is located. Tests by Pat Martin indicate that the matching / isolation transformer idea works quite well. The subject has also been covered by the 1988 & 1989 Fine Tuning "Proceedings".

It can be seen from the foregoing discussions that the problem of efficiently transferring, by passive means, the output of a remotely-sited wire antenna to a receiving position has been attacked and partially overcome. I say "partially" because of the Beverage-specific nature of the best-known current solution Palomar Engineers had at one time advertised a passive remote whip that was efficiently broadband-coupled to a coaxial feedline by means of a matching-transformer scheme. It is doubtful that such an antenna could deliver much output on medium-wave and longwave, but shortwave performance on "big signal" bands like 49 meters was probably adequate. I've set about to assemble a unit that can match a wide variety of remote wire antennae to 50-ohm line without the need of active devices (that can overload) and tank circuits (that are narrowband and must be "tweaked"). Nick Hall-Patch's transformer box served as the starting point: I tossed one together and found that it even helped with wires of shorter-than-Beverage length, in some cases. Not being a big fan of homebrew transformers or inductors (at work we never use them), I did subsequent tests with some commerciallyavailable matching transformers of differing impedancetransformation ratios. These models are made by Mini-Circuits

(Brooklyn, NY) Experimenting with 16:1, 9:1, 4:1 and 1:1 ratio units, I found out that different wire antennae coupled most efficiently to my 50-ohm receiver input differently, in terms of the transformation ratio best suited to the job. This is to be expected Therefore, a broadband matching box offering several ratios would seem to be a worthwhile DX tool - able to interface with a greater variety of wires than the single-transformer unit. Such a matching unit has potential to be a remote-site coupler and also an in-shack optimizer for wires coming right in the window.

Some time back, I experimented with a "combiner" box, a sort of poor man's (or - more accurately - lazy man's) phasing unit. The concept of the combiner was to take two wires, or two ends of the same longwire looped horizontally or vertically, and connect them to the receiver and ground in six different configurations meant to establish different directivities. Table 1 illustrates these configurations:

Table 1: Two Wire Connection Combinations

Set-up #	Antenna 1 to:	Antenna 2 to:
1	receiver	no connection
2	no connection	receiver
3	receiver	ground
4	ground	receiver
5	receiver	receiver
6	balun primary-A	balun primary-B
	(balun primary c	entertap to ground;
	secondary to re	ceiver and receiver ground]

Results both at home and at DXpedition sites were encouraging. Nulls of pests (allowing choice foreign DX to slide through) sometimes occurred, even with two ends of the same wire looped around the yard. Of course, phasing provides nulls more often and more controllably, but "combining" has operating simplicity as an advantage: less time tweaking, more time DXing. Time, especially on DXpeditions, is a valuable commodity.

In addition to the combiner and impedance-transformation sections, a third section was added to the Beymatcher box: a resistive matching pad that can be switched in or out. The purpose of the pad is to improve the VSWR (voltage standing wave ratio) on the coaxial transmission line. Reducing VSWR equates to improving the impedance match: the result is an improvement in the shielding ability of the coax, cable. If shielding is good, near-field noise and directivity-spoiling leakage of broadcast signals into the feedline center conductor will be minimized. The resistance values chosen cause a 4.2 dB reduction in signal levels if the pad is switched in. In lowsignal areas (the "boondocks"), it is generally wise to leave the pad switched out: every microvolt of signal counts, especially if the receiver is insensitive and a high-gain preamplifier (MWT-1, MWT-2, or similar) is not available to place ahead of the receiver input. In reasonable-signal-level conditions (characteristic of night-time), using the -4.2 dB pad may help retain directivity and noise-immunity: the penalty to system gain may be a lesser evil than a noise or interference increase. The pad assures that the maximum VSWR will be 2.2:1 (even if the antenna represents a virtual open or short). Such pads are often used in VHF, UHF, and microwave applications where keeping mismatches "localized" is of considerable benefit in preserving the shielded nature of coaxial cables.

### Bevmatcher Assembly & Technical Data

The construction-related documentation is as follows:

Figures 1 & 2: schematic

Figure 3: TA1 transformer card assembly Figure 4: TA2 transformer card assembly

Table 2: hole-drilling list

Tables 3-6: parts lists

FIGURE 1: BEVMATCHER INPUT (COMBINER) SECTION
SCHEMATIC

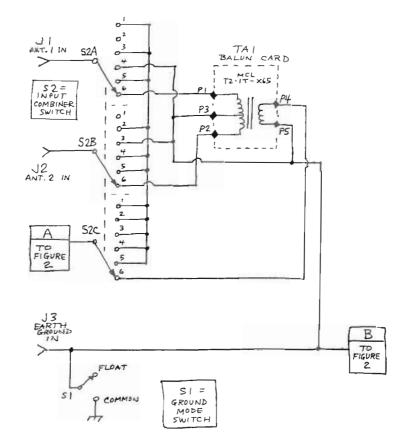
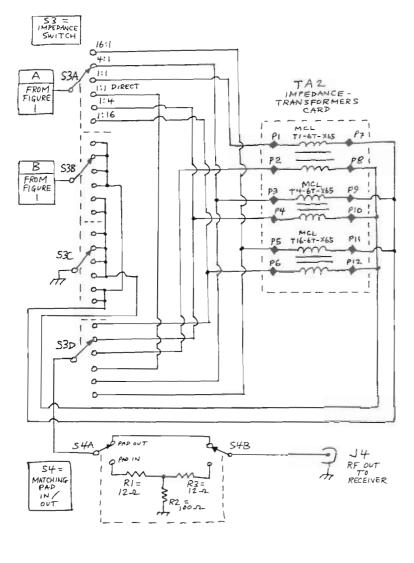


Table 2: Bevmatcher hole-drilling list
Box = Mouser 537-TF-779 (5" x 4" x 3")

- X = Horizontal distance, in inches, from the vertical centerline (VCL) on the side observed. Negative values of X are left of VCL, positive values of X are right of VCL.
- Y = Vertical distance, in inches, from the bottom horizontal edge of the side observed.
- D = Hole diameter in inches.

Hole loci are first marked on the box with a scriber and are then drilled with a .125" bit. Subsequently, as required, the holes are enlarged to the proper size by using progressively larger bits up to that corresponding to the final desired diameter.

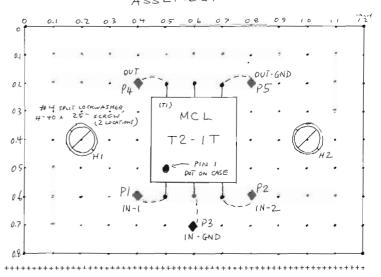
FIGURE 2: BEVMATCHER DUTPUT (Z-MATCH) SECTION
SCHEMATIC



LEFT SIDE

Hole #	Comp. Desig.	Description	Х	Y	D
1	J1	Ant. #1 In-red banana jack	-0.75	0.5	0.3125
2	G1	GND H/W - internal lug	0.0	2.0	0.125
3	JЗ	GND In - black banana jack	0.0	0.5	0.3125
4	J2	Ant. #2 In-red banana jack	0.75	0.5	0.3125

FIGURE 3: BALUN CARD (TAI)
ASSEMBLY



TOP SIDE

Hole #	Comp Desig	Description	Х	Y	D
1 2 3 4 5 6 7 8 9	S1 S1 TA1 TA1 S2 S2 S2 S3 S3 TA2	Ground mode switch - tab Ground mode switch - shaft Balun card - H/W 2 Balun card - H/W 1 Input combiner switch - shaft Input combiner switch - tab Impedance switch - tab Impedance switch - shaft Imped. transformer card H/W4 Imped transformer card H/W4	-1.875 -1.875 -1.25 -1.25 -0.875 -0.375 0.375 0.875 0.5	3.0 2.75 1.5 0.7 2.75 2.75 2.75 2.75 1.5 0.7	0.144 0 25 0.125 0 125 0 375 0.144 0.144 0.375 0.125 0 125
11 12 13 14	TA2 TA2 TA2 S4 S4	Imped transformer card H/W2 Imped transformer card H/W1 Matching pad switch - tab Matching pad switch - shaft	1.7 1.7 1.875 1.875	1.5 0.7 3.0 2.75	0.125 0.125 0.125 0.144 0.25
++++	++++++	+++++++++++++++++++++++++++++++++++++++	++++++	++++++	+++++

### RIGHT SIDE

Hole ♯	Comp Desig	Description	Х	Y	D
1	G2	GND H/W - internal lug	0.0	1 25	0 125
2	J4	RF out - BNC jack		0 5	0 375

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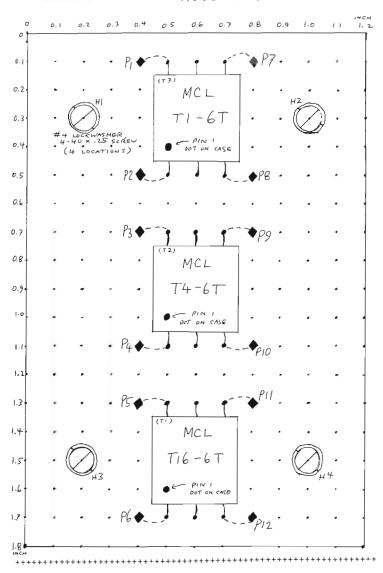


Table 3: "upper level" parts list

Vendor codes:

RS = Radio Shack / Many locations worldwide MOU = Mouser Electronics / 11433 Woodside Ave. / Santee, CA 92071 MCL = Mini-Circuits / P. O. Box 350166 / Brooklyn, NY 11235-0003

Item	Designator	Description/Value	Vendor	Vendor	Stoc	k #	QTY
====	====		===	======	=====	====	===
1		chassis box	MOU	537-TF-			1
2	TA1	balun card ass'y				Table	
3	TA2	impedance transform	er card	d ass'y	(see	Table	5)

4	(for S2,	S3)	knob	F	RS	274-416	2
	J1, J2		red banana jac	ck F	RS	274-662	2
6	J3		black banana .	jack F	RS	274-662	1
7	J4		BNC jack	F	RS	278-105	1
8	R1, R3		resistor, 12 c	ohm N	4OU	29SJ250-12	2
9	R2		resistor, 100	ohm F	RS	271-1311	1
10	S1		switch, SPST	F	RS	275-612	1
11	S2,S3	sw	itch/4pole/6pos	s.rotary	MOU	10WRO46	2
12	S4		switch DPDT	on-on F	25	275-614	1

#### Table 4: Balun card parts list

See Table 3 for vendor codes.

Item	Designator	Description/Value Vendor Vendor Stock #	QTY
====	====	=======================================	===
1	BD	perfboard(1.2"XO.8") RS 276-1396 (cut)	1
2	H1,H2	screw, 4-40 X .25" MOU 572-01880	2
3	H1,H2	spacer, 4-40 X .5" MOU 534-1450C	2
4	H1,H2	split lockwasher, #4 MOU 572-00649	2
5	P1-P5	flea-clip for .042 hole MOU 574-T42-1/100	5
6	T1	balun transformer MCL T2-1T-X65	1
7	W	buss wire RS 278-1341 appr	ox.1'

### Table 5: Impedance Transformers card parts list

See Table 3 for vendor codes.

Ite	m Designator	Description/Value Ver	ndor Vendor Stock #	QTY
===	= ====	=======================================	=== ================	===
1	BD	perfboard(1.2"X1.8") ]	RS 276-1396 (cut)	1
2	H1,H2,H3,H4	screw, 4-40 X .25"	MOU 572-01880	4
3	H1, H2, H3, H4	spacer, 4-40 X .5"	MOU 534-1450C	4
4	H1, H2, H3, H4	split lockwasher, #4 h	MOU 572-00649	4
5	P1-P12	flea-clip for .042 ho	le MOU 574-T42-1/100	12
6	T1	RF transformer 16:1	MCL T16-6T-X65	1
7	T2	RF transformer 4:1	MCL T4-6T-X65	1
8	T3	RF transformer 1:1	MCL T1-6T-X65	1
9	W	buss wire	RS 278-1341 appr	ox.1'

### Table 6: small hardware parts list

See Table 3 for vendor codes.

Note: Mounting hardware is supplied with the following components: J1, J2, J3, J4, S1, S2, S3, S4.

Hardware is required by the following component designators: G1, G2, TA1, and TA2. All required hardware is listed below:

Used on	Description/Value Vendo	r Vendor Stock #	QTY
=======			===
G1-G2(2),	screw, 4-40 X .25" MOU	572-01880	8
TA1(2), TA2(4) TA1(2), TA2(4) G1-G2(2) G1-G2(2)	split lockwasher, #4 MOU solder lug, #4 MOU hex nut, 4-40 MOU		6 2 2

\*

### Brief Synopsis of Control Usage

S1: If a good low-resistance earth ground (separate from receiver ground) is available at the location of the Bevmatcher box, noise may be reduced by setting S1 to Float. This separates the grounds. If such a ground is unavailable, set S1 to Common.

S2: The setting of this switch depends on whether a single wire is being input to the unit, or two wires. With two wires, this switch is set for optimized reception of DX targets. This optimized reception is based upon the ability to reject noise and interfering stations (more than merely presenting the highest S-meter reading on desired stations) Refer to the schematic (Figure 1) and Table 1 for additional information.

S3: This switch selects the inpedance transformation ratio. Beverages and longwires generally transfer maximum signal when the 16:1 or 4:1 ratio is chosen. Some wires may work best with the 1:1 ratio. Closed loops (one end to J1; other end to J2), especially if shorter than a quarter-wavelength, may perform better with one of the "step up" ratios (1:4 or 1:16) than with 16:1, 4:1, or 1:1.

S4: This selects Matching Pad In or Out. Using this -4.2 dB pad, as mentioned previously, reduces VSWR (possibly improving integrity of cable shielding and, thereby, noise-rejection and directivity quality). Switching out the pad gives greater signal throughput. In many cases, directivity and noise-rejection are not influenced by the pad; therefore, delivering maximum signal is the preferable situation.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

The Bevmatcher is a useful accessory for the DXer inclined toward antenna experimentation. In some cases, it may result in stations being heard that would otherwise be missed (though a loop or phasing unit will generally do more). For a fairly lowtech, low-cost, easy-to-use accessory, Beymatcher has its merit.

# KILI Radio celebrates eighth birthday

By Lesile Bison Times Staff

PORCUPINE -- As KILI completes its eighth year, hours dedicated to tear-jerking love songs have given way to coverage of tribal council meetings, Black Hills debates, basketball tournaments and community awareness programming as a celebration of Lakota life, said Tom Casey, KILI station director.

"We're a unique station. We offer entertainment but also news -

chambers of Eagle Butte to Pine

Gary Richards, KILI disk jockey, agreed, adding, "It's our job to be here for the people.

"There is a time to be in tune with the music, but there is also a time to be in tune with the world," Richards said.

li was a long winter. KILI radio was on the brink of bankruptcy in June but has since stabilized.

By Aug. 31, it looked like the end was imminent. But, in the past five months through our direct mail unedited, live from the council campaign and the marathon

fundraiser with WLIB out of New York City, we have paid off a substantial amount of our \$190,000 debt. Now what's left is manageable," Casey said.

The KILI board of directors has been instrumental in making needed changes. Staff has been encouraged to attend classes at Oglala Community College.
Richards said he is taking math

and beginning management. "I'm learning the basics. How to be a good role model, the importance of little things, like being punctual and, then, things like how to be as-

at the H.V. Johnston Cultural Center The Lakota Times -via Mike Hardester

in Eagle Butte Sunday.

The new team spirit comes from

"We've had to do a lot of house

an effort to have a staff that is sober

and involved with recovery from al-

cleaning, I used to come to the sin-

tion high from alcohol or drugs.

Now I've been sober 15 months.

KILI celebrated its eighth birth-

day with pow wows at the Little Wound School in Kyle Saturday and

coholism

Richards said.

RADIO STATION K I L I OPERATES ON 90.1 MHz FROM PORCUPINE, SD.



### FIRST IMPRESSIONS OF THE NEW DRAKE R8 COMMUNICATIONS RECEIVER

Unveiled to the public at the 1991 Dayton Hamvention, this radio attracted everyones attention for its simplicity and 'black box' stealth look (good time to release a radio just after a war).

The Drake R8 has been designed as a 'complete package'. Covers 100Khz to 30Mhz continuous plus with a VHF converter 35-55 MHz & 108-174 MHz. Multi-mode reception includes AM FM. RTTY, CW, USB and LSB. Five built-in



filter bandwidths, 6.0, 4.0, 2.3, 1.8, and 0.5 Khz. Synchronous detector. Passband Offset. Non-volatile memory 100 channel memory capacity. Two operating VFOs, Timer function for automatic operation, very useful for recording purposes, Selectable AGC (Off, slow, fast), Dual antenna inputs, dual time zone built-in clock. Made in Miamisburg, Ohio. Built-in multi-voltage power supply. Built-in 4 ohm speaker. RS232C serial interface for computer control. A software program will be released by Drake soon.

Options available at this time are the VHF Converter, a matching external speaker, and a software remote control package for the RS232C serial interface.

Easy to operate. What about reception? Of course it is hard to tell what it can really do inside a large Convention size building with a lot of ambient noise around, but I'm sure it will prove to be as good as the rest of Drakes past radios. Availability? According to the Drake representatives, "the radio will be available from selected dealers or from the factory". The cost? US\$979.00 You can order from Drake direct by calling 1-800-937-2534 or by FAX 513-866-0806 they take VISA, MasterCard, American Express. NO CODs. Unknown what price the 'selected dealers' will be selling the radio at.

11-16 VDC @ 2 Amps

13 1/8" W/ x 13" D x 5 1/4" H

-100 to 500 Celsius

13 lbs (5.9 Kgs)

### SPECIFICATIONS

Frequency Range

Modes: Sensitivity: SSB, CW (10dB S+ N/N)

AM (10dB S+N/N)

FM (12dB SINAD)

Frequency Stability

Frequency Accuracy Selectivity: AM, LSB, USB, RTTY, CW

zahom

FM mode only

Ultimate Selectivity Image Rejection IF Rejection Dynamic Range Intercept Point

1st IF 2nd IF AGC Performance

Attack Times Release Time:

Antenna 1. Converter inouts Antenna 2, Input Notch Filter Attenuation External Speaker Output Recorder Output Demodulator Output Clock Accuracy AC Power Requirements DC Power Requirments Operating Temperature Weight Size

100-30,000 KHz (0.1-30MHz) AM, LSB, USB, CW, RTTY, FM < 1 uV 0.1-1.5 MHz <0.5uV 1.5-3.0 MHz <0.25uV 5.0-30 MHz with preamplifier <3.0uV 0.1-1.5 MHz <1 5uV 1 5-3 0 MHz <0.8uV 5.0-30 MHz with preamplifier <0.5uV 1.5-30 MHz <+/- 10ppm, -10o to 50o C <+/- 100 Hz, -100 to 500 C 6 KHz @ -6dB, <12 KHz @ -60dB 4 KHz @ -6dB, <8 KHz @ -60dB 2.3 KHz @ -6dB, <4.5 KHz @ -60dB 1.8 KHz @ -6dB, <3.6 KHz @ -60dB 500 KHz @ -6dB, <1.5 KHz @ -60dB 12 KHz @ -6dB, <25 KHz @ -60dB >95 dB >60 dB @ 100 KHz to 1.5 MHz, >80 dB @ 1.5 to 30 MHz >80 dB, 45 MHz, >100 dB, 50 KHz >90 dB 1.5-30 MHz @ 20 KHz spacing > +5 dBm @ 20 KHz spacing >-20 dBm @ 5 KHz spacing 45 MHz 50 KHz Threshold: 0.8 uV 1 mS SLOW: 2 Sec FAST: 300 mSec <4 dB change in audio output for 100 dB input change @ AGC threshold 50 ohms unbalanced 50 or 500 ohms unbalanced 40 dB mm Depth (500-5000 Hz) 2.5W 4 ohms @ <10% distortion 300 mV. 4.7 Kohms 300 mV, 4.7 Kohms < +/- 2 seconds/month 100/120/200/240 VAC, +/- 10% 50 or 60 Hz, 42 Watts nominal Musings

Dave Schmidt P. O. Box 11502

of the Members

Wilmington, DE 19850-1502

Times are local per Muse.

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

### ED MITKUS - RR#2, BOX A-108, ZIONVILLE, NC 28698

Its been a while since I mused so.....To tape whatever comes across my speaker, I've up graded my tape deck, just in time to hear these - WPUV-1580 4/2 1900 w/s/off, one of my most wanted from SW VA. Also WCNT-1480 made it here 4/2 1852, lots of ads & talk. And while hooking all this up, WLLL-930 snuck in for a time 3/29 1915 w/s/off. Lots of strange conditions, complete black-out of the dial at times except for 'regionals' at night. Station news shows WVIO-1510 still on after signing off for the month of February. Still travel news but no longer "Mountain Music", now AC. Totals now stand at 618 heard here since 2/85. Gotta go....

### KEN ONYSCHUK - 13612 WENTWORTH AVE. - RIVERDALE, IL 60627

Got to relate a recent experience, recently we left work early to put in a job application at E 103rd Street in Chicago. Our car radio is poor (78 Olds purchased in Dec.), I believe it lacks resistor plugs as we get electric noise even on local stations. Driving E on 103rd listening to WJJD-1160. At Halsted Street, we notice splash from MOPA-1200. Got to Cottage Grove Ave and WJJD was 'wiped out'. Following this, and after submitting the job application, we drove E to take the Calumet Xpressway (194) South. When we just got on, WJJD returned and the 9 WOPA towers were just 1 block W near 104th Street. This was about 4P. Anyone else have a similar experience? This also happens while listening to WAUR-930 driving past WLS on S. La-Grange Road near Orland Park, losing the signal a couple of miles either side of 180. The Sun-Times recently mentioned that WTAQ-1300 has finally moved its transmitter site to Alsip, I car nicely loop it now. I did try for the KBYR-700 & KOTZ-720 tests but WLW & WCN were on at the time, nuts! Maybe I didn't wait long enough. I'm following the Bulls bigtime, I'm still a White Sox fan but they have lousy radio announcers. I watch it on Ch. 9.

### MIKE HARDESTER - P O BOX8159 - CAMP LEJEUNE, NC 28542-8159

Greetings! V/1 in from WABI-910 for state #45 and ME #1 verified! Wonder if I'll 'ever' get the last 5: AL, NH, RI, VT, WI? A few questions, 1st: what is the "city of license" for a radio station? Local WWOF-1580 is listed with Camp Lejeune (a USMC base) as the 'city of license', Local IDs, s/on & s/off announcements give "Camp Lejeune/Jacksonville" IDs. Base Public Affairs confirmed what I already knew, WWOF is in NO way associated with the base. Along the lines of stations, I just took a week of vacation and did some sight seeing (read: ant./ station locating!). As in most places, the transmitter site/towers are not marked with any identification. Some topographic maps list antenna towers but many don't. Local (gov't topographic) maps used for military exercises con't identify towers. Does anyone know of any maps (source) which identify towers/locations? I've found several 'in the middle of nowhere' and have no idea to whom they belong. Also, while driving around, I discovered a 'new' (to me) TIS operation (no calls) on 1610 khz which is operated by the NC DOT Div. of Ferries. The tape gives info for ferry times, reservations, etc. Finally, a puzzle (reported to DDXD-E), on 2/22 between 0620-0645 EST on 1000 khz a station was noted (o/u WLUP) w/a promo by Nat King Cole (yes, I know he died some time ago) "Hi. This is Nat King Cole... "who went into a promo congratulating "...this fine station on their recent increase in power." A female followed w/a similar promo adding '...serving a greater area...' A review of the bulletins, the NRC log, checks by Jerry Starr and correspondence/phone calls to WTAK-AL, WLUP-IL, WMUF-TN, it has been detarmined not to be those (WTAK & WMUF had CPs). I've tried several times since to see if anything would 'appear' on 1000 khz but only WLUP. KFLG-AZ (also with a CP listed) on an ET? Any other ideas? Help! Very 73 & Best of DX!

### JOSEPH K. JOHNSON - 3119 GIBBONS STREET - SAVANNAH, GA 31404-4910

Greetings once again from the Hostess City. A year ago when I printed my first Musing, I predicted that WBMQ-630 would change from oldies to news/talk. In April, WBMQ celebrated its 1st year as a news/talk station. WHHR-1130 now tries format #8, Business News, which I predicted if their Travelers Information format didn't work. This one has a chance for success. 73's

### MIKE BROOKER - 99 WYCHCREST AVE. - TORONTO, ON M6G 3X8

The start of the baseball season and the return to daylight saving (UTC-4) time means the end of another DX season (no playoffs, hi!). Despite some incredibly abyemal conditions, there were a few highlights in the 1990-91 DX season: WEND-760, KGHT-880, WZNN-930, KOWO-1170, WNNW-1110 plus the usual assortment of pirates on SW around 7400 khz. I guess the real highlight was joining the NRC! DX NEWS always surprises me with useful stuff you just don't find in other clubs. The histories of CKLW & CHYR were fascinating. The area code map was another bit of useful information. Of course, there is an area code map in the local directory but a Metro Toronto phone book is a little to hefty to 'keep next to the receiver! In 1993, S CN Will have a new area code: 905. Toronto and the surrounding suburbs (those whose postal code starts with M) will remain 416, the rest of the 416 code becomes 90%. The Toronto area is running out of phone numbers! This due in part due to the large number of fax machines. Speaking of machines, how about the Montreal Machine? Even though I didn't much like singular team names, I guess they had to pick something that would be the same in both offical languages (La Machine de Montreal in FF) for Canadas entry in the World League of American Football. The Machines flagship stations are CJAD-800 in EE & CKAC-730 in FF. Does anyone know the flagships for the London Monarchs, Frankfort Galaxy or Barcelona Dragons? And wasn't there an all comedy format with the

call letters WLAF? (No, it was MJOK-1150 Gaithersburg, MD, it didn't work, station was sold and it is now WMET. I don't know if KMDY is still around-DWS). CKEY-590 is now "Country 59". Since the demise of CFGM (now heavy metal 'The Hog'), Toronto had been without a CW station.73

### CHRIS CUOMO - 670 THIRD AVE. - VERONA, PA 15147-1349

I am back amongst the ranks of the analog tuning! The power supply that my Delco ETR was hooked up to broke down, sending 1 volt of AC power into my radio. This fairly small amount of power was enough to cause a faint but noticeable buzz across the AM band. I have called up from retirement (alias, the closet) my Grundig Music Boy. I have been asked occasionally about this radio so I'll describe it this way: It was made in 12/69 in Portugal for the German Grundig Corp. Its internal antenna is very directional as portable radios go and its tuning is tight. VERY tight! You can hurt your hand if you do a lot of tuning in a DX evening! This does, however, prevent drifting off frequency and makes 'split' frequency tuning possible, though this is really not the radio to use for TA reception. In addition, it tunes LW, FM & SW from 5.8 to 7.6 mm/2, a poor choice of SW spectrum to cover, mostly SSB utilities and amateurs and no WWV for propagation indexes. Still, it will outperform my Superadio II, even though it has no external antenna jack and an admittedly odd name. If anyone may have any info on this set, such as ads or performance reviews, please let mw know. I am now working a night shift job which should make it easier for me to stay up late and DX on the nights that I don't work. 73s.

### GEORGE A. SANTULLI - 912 MARSHALL DRIVE NE - LEESBURG, VA 22075

The DX season has come & gone and unfortunately I didn't have too much time to listen this year due to work constraints and travel. I had hoped that this would be the year I would hear New Foundland but the war broke out and the CBC went AN , blocking any chance for NFLD. Somehow I managed to be on a trip for most of the great DX Specials, but I did get around to listening for some. I wanted to take a minute to thank all of those hard working folks who put out this outstanding bulletin that makes our hobby great. Can you imagine what it would be like to DX without the aid of DX NEWS with its vast amount of information sharing and tips? I sure can't! I have been in the NRC since about 1964 with a few years missing due to coilege, etc., but in my opinion the club and its publications just keep getting better. As we move into the summer season, I for one would like to try some FM DXing, but have no idea what receivers/antennas those guys use who pull in the interesting stuff. Maybe a column by some of the FMers would be of help to the novice FM listener to include when to know about good conditions, etc. I have never considered it, but this summer I would like to give it a try. Naive as it may sound, but is there an indoor FM antenna that would give good service? Hope to see an FM column addressing these questions or from some members who are successful with it. Good listening to all & have a pleasant summer. 73s.

### BILL NIENAJADLY - PO BOX 2999 - CLIFTON, NJ 07015-2999

Greetings, a short intro: I'm 32 years old, DX TV/FM mainly, AM sometimes. Most recent catches are WOL-1450 & WDEL-1150. I am a member of the WTFDA and edit the ETVDX column for the Club (or at least attempt to!). In answer to RjE's column (VS8, #23, page 37), yes, the DX 440 ext. antenna RCA jack can also be connected up to an FM antenna and maybe AM, too. I have found the GE Superadio to be more sensitive than the DX440, having been able to hear WBZ-1030 in the afternoons on the Superadio but not the DX440, this with WINS-1010 & WEVD-1050 5 miles away. All time AM catches include KSL-1160, KOA-850, PJB-800. Never had the west coast, I haven't done any real serious AM DX since the labe 70's, but have been checking out the dial more recently. I'm wondering if the 1160 Oakland, NJ CP will get on the air, it will have a very tight pattern with the signal beamed through the Bronx into CP, protecting WOEM, several stations in PA, one in upstate NY, thus missing their prime area of Bergen County and anything south. This, included with the price of land, it doesn't seem possible. Good DXIng!

### VIC MELIS - 501 KLEMAN ROAD - GILBERTSVILLE, PA 19525-9752

While the Gulf War boosted ratings for all-news WINS & WCBS, Philly's KYW audience share stayed level with listeners tuned to WPEN-950 and CW WXTU-92.5. In the latest Philadelphia Arbitron ratings, WPEN moved from #6 to #2, increasing its overall share from 5.5 to 6.9 (& 5.3 to 7.7 in AM drive). All news KYW-1060 remains in 1st place but surprised analysts with no increase in audience share of 8.8 (13.7 in AM drive). despite extensive war coverage and network updates every 10 minutes. All talk WWDB-96.5 fell from #8 to #11 but black talk WHAT-1340 tripled its ratings, moving up from 21st to 18th. Country station WXTU-92.5 which played patriotic songs & CNN war updates, moved from #11 to #6, their highest ratings since switching to country 7 years ago. WIP-610 did its annual slide (this time from 3.2 to 2.4) following the end of the Eagles season. To add to CBS woes about WOGL-1210 slide to 20th place, its FM (WOGL-98.1) slipped from 10th to 12th. WOGL-1210 carried 24 hour CBS coverage during the first few days of the wat before resuming the oldies format. Since the end of the war, they reinstated the hourly CBS news which they had not carried since the demise of WCAU last August. And now an update on who's doing C-QUAM AM Stereo in Philly: WEAZ-560, WPEN-950, WZZD-990, KYW-1060 & WOGL-1210. I don't know of any AM stereo broadcaster in this area presently using the Kahn-Hazeltine system, but if anyone changes, my Sony multisystem AM stereo (with narrow/wide bandwidth) car radio can handle it. Recent FCC relaxation of TIS emission restrictions explains why the Valley Forge Park TIS on 1610 can be heard for up to 20 miles. Its 2 minute tape loop can be heard easily 18 miles west to Gilbertsville and 15 miles east to Philadelphia. With the end of Unistars 'Music of Your Life' on 4/15, local WPAZ-1370 switched to AdCom as 'The New Light 1370, WPAZ'. For Christmas, I received a DX440 and now that the warrenty has expired, I can install the 150 khz FM IF filters a modification that did wonders for an old analog Marantz tuner that I modified last year. The DX440's selectivity and sensitivity on the other bands is not to bad. AM selectivity on the DX-440 in the narrow mode is considerably better than with the TRF, Superadio or McKay Dymek AM5. For example, I can tune within 5 khz of local WPAZ-1370 to pick up clean signals on adjacent

frequencies, while they're nearly impossible on the TRF or Superadio. The DX440 works in my

car with the auto automa plugged into the units external anterna jack. It picks up even the weakest SM & FM signals with no ignition noise. Unlike the thrill of driving through a phase-distorted null in a directional AM signals pattern or severe FM multipath, SW reception on-the -road combines some of the pros & come of both bands. Exploring new SW frequencies or just listening to the BBC World Service or Radio Moscow while sitting in traffic is a great alternative. AM reception on the DXM40 in the car is a bit more static-prone since connection of an external antenna does not decouple the units built in ferrite rod. No change noted in MURD-900 signal since they dropped a tower, they're still buried under CMML most AMs. WVCH-740 continues its zoning battle for construction of a 6 tower, 50000 wat sight in a residential area just west of Valley Forge Park. Its strongest opposition comes from two pharmaceutical companies concerned over possible RF interference to electronic equipment to be installed at new sites now under construction within several miles of the proposed abovers. That's all for now. 73's.

DON TRELFORD -3 MUIRBANK BLVD. - SCARBOROUGH, ON M1C 4R8 Time for another Musing. I started one some time ago but misplaced the rough copy and never got around to writing it again. This season has been fairly good, but I DX year round as it is surprising what can be picked up in an off season. Outstanding DX event lately was my long awaited trip to my house in Runaway Bay, Jamaica. Took along my DX440 and strung up a LW on the roof. Was able to pick up all the Jamaican stations during the day, and a host of Cubans (seem to be on almost every frequency). A bandscan will appear soon. Best day catch was Armed Forces Radio in Guantanamo Bay with 250 watts. At night, a lot of the Cubans disappear, and the US stations come in, best catches were CHTX-990 and a loud and clear WFTL-1400. Plan another trip in mid May, if any member would like to join me, please drop me a note. I have room for 10 people (5 bedrooms) and I will only charge a minimum to cover expenses. Have only heard 3 of the CPC tests this year. A summary of my veries shows a grand total of 243 (from 89 to present), 5 Canadian provinces, 30 states, Neth. Antilles & Anquilla. Wrote to AFN for the Guantanamo Bay station, does this count as a US territory or a country or what? Yesterdays mail was a bonanza, 5 letters from stations (2 veries, 1 SW and a 2nd letter from WZNN-930, were not sure they had replied to my report!) and a letter from WNBP-1450 saying it was not they whom I heard (we can make mistakes!). Its nice a few stations are good enough to do this. This happened with WBAB-1240 and when I did actually get them and reported it, they sent me a dozen different bumper stickers! Another report on our return from Jamaica. 73's

EARL HIGGINS - 6631 WASHINGTON - ST. LOUIS, MO 63130 As a member who just rejoined after a 10 year lapse, I need to catch up on whats been happening throughout the 80's in our hobby. One area of most excitement to me personally, and one which has experienced revolutionary change in the last 10 years is the application of computers to DXing. As an information management and retrieval system, PCs are ideally suited to a variety of tasks related to DXing and I feel many possible uses haven't begun to be exploited. Among these are: keeping the NRC Domestic Log in electronic form, keeping ones personal logbook 'on disk', maintaining a club BBS (Computer Bulletin Board), accurate distance/azimuth calculation for stations, generating various maps, generating reception reports, instant electronic mail between members, desktop electronic publishing of DX NEWS and other NRC publications, electronic submittal of loggings to the various columns, even Musings (these could save the editors a LOT of typing time), to name but a few. Do we know how many members have computers and of what type? May there be an interest in a regular column in DX NEWS devoted to computer applications in the DX hobby? If so, I would be glad to help out in any way possible. I am a software engineer for a major aerospace company and have several years experience programming in a variety of high level computer languages. My Prodigy ID is XFWX92A in case you may want to send any comments. 73

HANK HOLBROOK - 407 ARUNDEL ROAD - FAIR HAVEN CLIFFS - DUNKIRK, MD 20754 Of 2,849 BCB stations verified since 1946, 374 have been via special DX programs arranged by various radio clubs, NRC, the old NNRC & others. If I counted correctly, the NRC arranged about 20 DX programs this season. Most of the nearby stations were already verified, while most of the distant stations were out of reach of this DXer. However, given the band conditions when I started the hobby back in the mid 40s and even into the 60s, many of the distant stations would have found their way to the east. I went back through my log and pulled all the DX programs verified. There were some lean years as far as I was concerned, as many years I was chasing foreign BCB stations, on LW searching for ships and beacons or some other band chasing broadcast & utility stations so my totals don't represent the DX programs presented through the years but they do show some interesting stations that could be pulled in, reported and verified in the past. By the years, stations broadcasting special programs arranged by the NRC & other clubs that were verified by this DX'er: (we'll show it as year-#verified & best catch-DWS): '47-2-KDSH-950 ID; '48-44- KTFI-1270 ID, CBH-1330 NS w/100 watts, KENO-1400-NV; '49-36-KSBW-1380-CA, CFAB-1450 & CKEN-1490, WXRD-1540 PR, CJRW-1240-PEI; '50-7- WMDD-1490-PR, CE57-570-Chile, HCJB-974, CX28-1090, YNW-930; '51-7-OAX4V-1010 Peru, YVQJ-1080 Venezuela, CHFA-680-AB, 4VGM-1430 Haiti; '52-3-WGBY-1450 Guantanamo Bay w/50 watts; '53-25-KPUY-1450-WA, XEBH-920-MX, YSDF-1330 E1 Salvador, 4VYM-1250, KIUL-1240-KS, WPFP-1450-WI, KRSD-1340-SD; '54-41-KCN0-570-CA, KUJ-1420-WA, KPIG-1450-IA, KFGT-1340-NE w/100 watts, KOFE-1150-WA, KUTI-900-WA, KWIL-790-OR (most distant per stations w/only 20 watts of their 1000 watts beamed toward MD); '55-40- KGDN-630-WA, KLGN-1390-UT, KWBY-740-CO, KLIR-990-CO, WVDI-600-Trinidad; '56-38- KSLV-1240-CO, KTHE-1240-WY, CMHW-810-Cuba, HJAL-1460-Columbia, St. Pierre Mg-590 & KDAY-1580-CA; '57-34-KBIG-740-CA, KTUT-990-UT, KTNC-1230-NE, KFJM-1370-ND; '58-8-KRCK-1360-CA, WIVI-1040-VI, WLEO-1370-PR; '59-'60-'61 showed none: '62-19-CB73-730-Chile, KHOK-1560-WA, KYNG-1420-OR, KPOR-1370-WA, CHEF-1450-PQ, XEYC-1460-MX; '63-14-WBNB-1000-VI, KXEX-1550-CA, KWYB-1440-AZ, CFSE-1425-PQ w/only 50 watts; '64-1-HOXO-760-Panama; '65-7-HCRM-1-565-Ecuador, KDKO-1510-CO, KACY-1520-CA; '66-5-CFAM-1290-MB, KULE-730-WA, KALF-1510-AZ; '67-11-YSF-840 E1 Salvador; '68-1-WCAS-740-MA; '69-1-Anguilla-1505; '70-1-WCVR-1320-VT; '71-'72-'73-'74-'75-'76-'77 all nil, nothing reported; '78-2-WKEM-1490-FL, WPUT-1510-NY

w/875 watts; '79-'80-nothing; '81-4-KBYE-890-0K; '82-2-WOMP-1290-OH, WHND-560-MI; '83-2-WSWM-15-90-WI, '84-2-WNRK-1260 (very rough through local WWDC); '85-2-WZMI-1540-GA only 4 watts!; '86-2-KPCR-1530-MO, '87-3-WWXR-960-TW; '88-1-WASG-550-AL; '89-2-WZZZ-1300-NY; '90-5-WBIU-1210-LA; '91-1-WNLC-1510-CT, plus a report just sent to WJTZ-640-TW]. In the early days, there were far fewer stations on the air therefore far less interference and some stations came through on open channels with NO ONE there. In those days, CW IDs were not used and not necessary as they are now! Good DX & 73's! (Thanks for your fine report, Hank, I can very easily recall also hearing the tests from WULE-730 & KALF-1510 in '66 when I discovered what MM's were meally like! How times have changed so much in so little time!-DWS)

RUSS EDMUNDS (WB2BJH) - 753 VALLEY ROAD - BLUE BELL, PA 19422 Just received #24 and thought I'd best drop a few lines. As you can see from occasional appearances in DDXD and the occasional ANSWERMAN column, I'm still around. DX has been a little slower this season than last due mostly to the fact that last season was heavily catch-up for 10 years of inactivity. This year has been less so. The other reason has been increased business travel. I just returned from 4 days in Macon, GA, in Feb., had 2-3 day trips to VA Beach, VA and in Dec., 3 days in Macon. This is in addition to 1 day trip a week the past few months. Nothing significant on AM on any of these trips, mostly due to electrical noise so I've tended to DX FM in both Macon & VA Beach. In just the short time there on 2 trips, I'm over 100 FM's heard only on car radios in Macon. I'm still trying to sort out my problems DXing AM at home. A water tower less than ½ mile away is part of it, proximity of major locals (KYW-1060, WZZD-990 & WEAZ-560 are all together about 4 miles away, WNAP-1110 is only 2 miles away & WTEL-860 is about 6 miles away). (Throw in WPGR-1540, too, Russ, it's not far from you either!-DWS) The daytime mixing products of 990/1060/1110 are a real problem! Dallas Lankford's recent article helps me figure out another piece but the FET 4' altaz combination was fine in NJ where I had more powerful locals but at a greater distance even though in my last NJ location, most of them were still line of sight. The 2' loop was always too much gain when amplified and not enough when not used with the HQ150. It worked far better with the HQ145 I got rid of 15 years ago. I'm going to make one last try with the FET amp then try to run the 4' loop barefoot and see if that helps. Having the shack in the basement isn't optimum either. And this summer, a longwire with surely go up-hi! Lots of UNID SS during aurora of 3/26, 1550 never did determine whether Coral Gables or PR was there, no IDs or slogans heard. 1180 may have been VOA, awfully strong and have even heard someone with 'Radio Cadena Mundial'. On 840, repeated 'Da Sol!' & "De la noche, W" (doble-vay). I have no even remotely current source of LA station info. I've ordered the Cuban list from Ken but even that's old. I hope we're not going to get too heavy back into country counting things again in the 90's. My vote is and was, to have a club set only such minimum standards as it needs to run its Achievements columns and otherwise to let each DXer decide for him/herself. Same goes for counting stations/call changes/facility changes. 73's

RICK DAU - 401 EMERALD STREET, APT. 9 - IOWA CITY, IA 52246 Greetings from IA, the home of corn, Hawkeyes & Riverboat Gambling! On to the important stuff, like DX. On 4/4-4/5, I was able to take some time off from work and make a little side trip to IN. On 4/4, I swung through Peru & took a tour of WARU-1600. My guide was CE James Swearingen, who has been kind enough to due a pair of tests for the NRC over the last 2 seasons. We had a good conversation about radio & DX while roaming through WARU's studios. After WARU, I continued E through Wabash where I stayed for the night. While there, I called IRCA member Tom Laskowski in S Bend to let him know I was in the area. He drove down, brought his veries and we had a great visit, having not seen him since 11/89. The next AM, it was back home to IA. A few days alter, I was travelling through W IL and stopped in Macomb to say hello to Frank Merrill. On 4/ 20, I attended IA's spring football game at Kinnick Stadium and was able to talk with sportscaster Bob Brooks, talking mostly about UI football. Brooks & Larry Morgan make up the Hawkeye Network, one of 3 networks that cover UI football around the state every fall. My Radio West loop is on its deathbed, and for some time now, I've been toying with the idea of getting a Palomar loop to hook up to my Kenwood R1000. If there is anyone that has a Palomar loop they would like to unload and is attending this years NRC bash in Bridgeport, let me know ASAP to see if we can work something out at the convention. My 1st experience with a Palomar loop was at last years IRCA convention in Knoxville & I was mighty impressed. Phone # here is 319-338-3450, if I'm not home, please leave a message on the machine. Until next time, 73 & good sumertime DX!

KEN MACHARG - CASILLA 691 - QUITO, EQUADOR Greetings from the land of the Equator. DXing here both on SW & MW is different, not only from the location in SA but being on the Equator. We are finding that Pacific area SW is very strong morning and evening while Africa is most impossible. Just before I left the US for language schcol in Costa Rica and then on to Ecaudor, I bought a Radio West Great Little Loop. It has been a lot of fun to play with and has proven its worth in DXing. While many more US stations could be heard in Costa Rica than here, I have had some success from here as well. Among those heard from Quito have been KAAY, WCBS, WABC (tentative), WFAN (very strong), WLAC, WCKY & WHAS which came up from nowhere on an almost totally dead band at 12:50 one morning, stayed there long enough to ID it, then faded never to be heard again! I expect that most of these with verify. I am still waiting for some veries from my Costa Rica listening but international mail being what it is, maybe my letter of their reply has been lost. Most NA DX has to wait until after midnight when many of the Ecudor stations sign off. Of course, sitting at the bottom of the mountain where most of Quito's transmitters are located (including HCJB's big 50000 watt DA) doesn't help! By the way, contrary to what I've read in DX NEWS and other publications, according to some former 4VEH staff people who now work at HCJB, 4VEH is still on SW just not in English. Many, many thanks to the DX NEWS staff for a good job! I look forward to the bulletin every week (less now) since it is my only contact with what is happening on the US broadcast scene. Please keep up the good work!

### ROB KEENEY - 10315 ANTIOCH - OVERLAND PARK, KS 56212

It was nice visiting with old friends Bob McCoy & Neil Zank at Neil's house recently. They were getting me excited about the upcoming FM season. I have never really gotten into FM DX before, maybe this year. While I was in Lincoln, I stayed at the sight on the '77 NRC Convention. The only thing leftover from that event was the statue of the Unknown DXer hext to the pool and a very wet cardboard box. Most of my ards lictening time are tpent looking for much Limbaugh while travelling on business. With 140+ stations on his EIB network, it gets easier all the time? I'd like to hear from any KS-MO-IA-ME NECers that would like to get together when I travel in your direction. Drop me a line with your address & phone number and I'll let you know when to expect me. My phone number is 915-649-1405. I also have a FAX on that number. The woise level around here seems to be improving. I'm still waiting for my new Radio West Loop. The Walkman's performance continues to amaze me. Dxing from our truise ship to the Bahamas in March was nearly impossible due to non stop rain! Daive, your doing a great job with the column, it's wonderful to see the support picking up again! (yee, now someone please come and pick me up off the floor-hii-DWS). I'll save some for latear. 73 (Tharks, Rob)-DWS)

### WALT BREVILLE - 9127 CORAL DRIVE - ST. LOUIS, MO 63123

Since I haven't Mused for maybe 3-4 years, its time for another one. I've been a member since '64, DXing from the St. Lowis area since then. My first few months in the MRC was during an Air Force hitch at Watertown, MY's radar station where I net my 1st NEGer friend Jerry Bond. I attended a number of DX conventions, starting with Cedar Rapids, IA in '65, ending with Louisville: in '82. In recent years, my spare/travel time has been cut due to taking care of 2 houses and my elderly mom, along with more overtime at work since "82. I've been mostly a spectator instead of participant in the game of serious ECB DN with just roughly 1900 stations in 43 states logged. the log got lost so I lost track of exact totals. 800 of them I got between "64 & "69. I do not count call changes with the wastly increased frequency of call changes in recent time. I'm glad I decided that. Also acquired some 270 veries from 39 states until I decided to quit sending reports & collecting veries in '78. I'm now 52 & happily single. In spite of the incredible deterioration of the AM. band dXability since the 60's, I have managed to keep interest up & renewing to DX NEWS by remembering that it is the fun and magical enchantment of hearing AM DX stations not competition of accumulating totals that AM DX is all about. Things have mappened that renew interest, such as the development of digital readout radios in about "79, AM stereo and occasional travel to places far enough to produce a different set; of stations on the dial so on trips I'm always ending up DXing instead of watching TV or going to nightspots! That always resours my interest as I once again get into the ebb & flow of AM DX signals. Just got back from a flight to Baltimore where I visited my brother, also making quick trips to DX & Philadelphia. My rented Cavalier had a very nice AM section with good sensitivity & audio as well as that all important digital readout on its AM/FM RX. Caught DS on the phone for a brief chat enroute to Philly, that made me decide to come out of the woodwork, hope some of you other ald timers do so, too! (Thanks for the call, Walt, and your report-DWS)

#### EDWARD A. SOULE - 6201 DERAMUS AVE. NW - WANTSVILLE, AL 35806

It has been many years since I graced this column, so quickly, I am a United Methodist minister & DX as a way to put myself to sleep mostly. I am not really gung-ho but I really enjoy DX NEWS and read it avidly. I have lived in Huntsvilel for 15 years mow, but that is due to change in June, as I am receiving a new appointment to a church in the Florence, AL vicinity. I worked for 10 years in radio, 1 year at KFNW AM/FM in Fargo, back when it went from 900 to 1170 khz (75-76), and 9 years at WNDA FM Huntsville before returning to the ministry. Thought I share some about what's happening here before I move, most of the changes have been sent to Bill Hale but thought these would be of interest. There has been a lot of energy expended in recent months in letters to the editor concerning changes in the radio scene here. A few years ago, WWOD Tullahoma, TN moved its studio to Huntsville & its transmitter to a location, about heliway between here & Tullahoma. They were starting to get pretty good ratings. However, they were short of cash and tried to sell to the couple who own WTAK. The sale, although approved by the FCC had some conditions which were not met and they backed out, leaving the successful AOR station with money problems. Enter Bill Dunnavant, who is principal owner of WWNW WZMP. WZMP is the top contemporary station in the Huntsville market (licensed to Athens but the transmitter is less than a mile from the city limits). Through another name, Dunnavant leased sirtime on WKQD 920 house a day and put on his own DJ's under other names. They would play a few country cuts interspensed with album rock. Then they ran a tape loop of construction noise for a weekend, then returned as WHOTK (Huntsville Kountry). It is rumored they are broadcasting from the WANNAWYY studios just subside Athens. A lot of AOR fans have howled and filed a complaint with the FCC. It is apparently all legal since the owner of WHVK is fortune Media. Only loophole might be that neither is licensed to Huntsville. A new facility debuted at AL N&M Univresity, WJAB-90.9, 100 kw, Normal, AL (really just a PO in the Huntsville city limits). It went on the air 5/1 but pulled the plug 5/2, it seems they were using a temporary antenna which put audio interference on a Birmingham TV station, they are now installing a permanent tower and expect to be back any day. That's all for now from here, I'm looking forward to new locals and maybe new DX from the Florence area.

### BILL TOWNSHEND - 4500 CONNECTICUT AVE. NW #901 - WASHINGTON, DC 20008

It's reintro time again, I'm 60 (when this hits print), happily single and live on the top floor of a 9 story apartment building in upper NW DC. I work as a computer programment for the National Weather Service (I don't take the blame for the @##c%! weather-bil on the 3rd floor of an 8 story DX buster (FM not affected, the building is concrete/steel) in Marlow Heights, MD 16m/26km SE of my pad. I have made plans to see the 7/2 total eclipse of the sum (ower 6 minutures of totality) from the ocean liner SS Jubilee off the Mexican W Coast, sailing out of LA 7/7, returning the following Sunday. After the cruise, I will wisit with some people I met on my around the world

trip in the summer of 70. We have just come off the mildest winter since 1950 with yours true; yourside in summer clothing many days, especially around Christmas. Solvante-traize at bonne DX!

MIKE HARDESTER - PO BOX \$159 - CAMP LEJEUNE, NC 28542-8159

Greetings! A couple of recent veries have been received, WoBM-1160 sent a v/1 w/frequency only and a bumper sticker, station zip code is 08754 vice V8753 as in the NBC log. My ist NJ verie & state #44. WMSL338-530 (near Williamsport, MD, Exit 2 @ 181, VA/MD) returned wy VDC with Gull data, proces is 10 valts. WMMO-830 in Eden, NC is referring to itself as 'The Big O' (letter) and the calls may refer to another slogan: "The Word, Worship & the Music". Also, in regards to NC stations, if you have a tentative slogan, s/on or s/off announcement you think may be from a NC station, I'il be more than happy to take a listen and see if I can help ID Nt. My Pocation is along the E central coast, about 50 miles N of Wilmington. Very 75 & Best of DX!

DAVE SCHMIDT - PO BUX 11502 - WILMINGTON, DE 19850-1502

And that cleans out the file here, everything through 5/19. A couple of reports on shock-jocks and DAB ware ranned. A few lines on DAB is OK but until it is something coming into Feality, and DAB ware ranned. A few lines on DAB is OK but until it is something coming into Feality. We'll stick with what warve got to work with now. 1:30AM on 4/28 brought the closing on WAMS. On the air in Wilmington since '48 and the place Where I really got my start in radio back in the laws 60's/early 70's., ending up as CE from '98 til its closing (1'm still on the payroll until the building gets whocked down). We leve up, it really burts taking this our apart! We have lined up additional work for the company involved in the reorganization of Resorts Excadcasting, with apprades to be done with WWTR-95.9 Bethany Beach, DE/WETT-1590 Ocean City, 9D and other stations in their chain, maybe a trip of two (VA & SC). We're still trying to get the RS TRS80 system on time but seem to still be having problems with it, maybe an apprade may be in order for that bystem. Again, a humble request, if possible, we would deeply appreciate your reports double spaced, it helps save on the eyeballs-hi! Trust all are having a good summer' 73's

Trenton Times via John Bowker

### Path clear for Burlco AM station

By SHERRY WALLACE

FLORENCE — Now that his liveyear legal battle with the township has been won, the Fountain of Like Center is moving ahead with its plans to operate Burlington County's only radio station

The Rev Dave Bordwin, the church's pastor and business administrator, said construction with begin next month on three 18-foothigh radio towers on its property at Old York and Burlington-Columbus roads

The 5,000-watt station with the call letters WRLB (Real Life Broadcasting), 1460 on the AM dial, expects to be on the air within the next six months, according to Boulwin.

The church can start construction on its radio station because the Township Council, at its Feb 7 meeting, decided not to appeal a Superior Court ruling allowing the church to build the towers

Neighbors who opposed the towers said they feared the dieuts of the rado waves and worked about possible interference with fiveception for homeowners in the area Boudwin has said the towers would not adversely affect the township in any way.

"We just hope once we're (the radio station) up and go'ing 'it will spark people's interest." Boudwin



Staff photo by Michael Mancusc

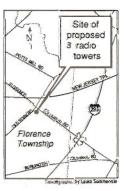
The Rev. Dave Boudwin starids in from the Fountain of Life Center in Florence, where a radio station will be built.

THE CHURCH'S desire to operate a radiostation dates back about 12 years, when the local county station, W.FE, were of the air, said Bundwin

"Operating a ractio station was the draim of, our senior pastor, Paul Crave n." Boudw'n said "When WJTZ's home became available, we immediately applied to the Federal Communications Commission

"In nook us three years to gain the hoense from the FOC, after which our backle with the township started."

The station's studies will be in the church briding on Old York Road. The station's signal will reach Philadelphia, as for sowing as Malante City, and northward to Tranton during the day but would have to cut lact on gower to avoid anterfering with other stations at might, Boud win said.



### The Answer Man

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